訂 正 確 認 報 告 書

訂正承認日	2016年8月25日	訂正申請日	2016 年 8月 25日
題名	Study on the intelligent transp partnership approaches	oort system (ITS)	in Japan : from policy, technology and
著者氏名	Saad, Sed		
報告者氏名	亀山 渉 中里 秀則	確認者氏名	佐藤拓朗

本論文は、学位規則第23条第1項に照らし、学位の取消には該当しないが、訂正を要する箇所が認められたため、これに対して著者によりなされた訂正について確認した結果を下表の通り報告する。

Abstract

訂正前	訂正後	訂正理由と内 容・訂正を認 めた理由
Page 3, Line 13-161. The 1996 "Comprehensive Plan for ITS in Japan" whichspecifically defines ITS as a "comprehensive info-communicationssystem dealing with transportation" which can "display a clearexample of an advanced info-communications society project" and	Page 3, Line 13-151. The 1996 "Comprehensive Plan for ITS in Japan" whichspecifically defines ITS as a "comprehensive info-communicationssystem dealing with transportation" which can "display a clearexample of an advanced info-communications society project" and	参考文献の追 加であり、訂 正を認める。
 Page 4, Line 25-28 In a Developmental State, the state takes the leadership in catching up the technological frontier; while in an Entrepreneurial State, the state takes the leadership role in pushing the technological frontier further to e.g. create a new industry. 	Page 4, Line 25-27 In a Developmental State, the State is catching up the technological frontier; while in an Entrepreneurial State, the State has leadership in pushing the technological frontier further to e.g. create a new industry.	エディトリア ル修正であ り、訂正を認 める。
Page 5, Line 9-11 Chapter IV, entitled "Partnerships", reviews the institutional aspects of ITS, i.e. the various concepts and models of partnership, including Public-Private Partnership (PPP) and Public-Public partnership.	Page 5, Line 7-9 Chapter IV, entitled "Partnerships", reviews the institutional aspects of ITS, i.e. the various concepts and models of partnership, including Public-Public Partnership and Public- Private partnership (PPP).	エディトリア ル修正であ り、訂正を認 める。

Acknowledgements

訂正前	訂正後	訂正理由と内
		容・訂正を認
		めた理由
Page 7, Line 2-3	Page 7, Line 2-4	論文の内容と
I would like to acknowledge the direct academic contributions	As both PhD student and COE researcher of a truly "glocal" and	は関係のない
following professors (by academic affiliation and English	innovative Japanese Graduate School (GITS, network business	変更であるた
alphabetical order):	department) of Waseda University, I would like to acknowledge the	め、訂正を認
	direct academic contributions of following professors:	める。
Page 7, Line 9-10	Page 7, Line 10-11	論文の内容と
Beyond their examiner role, Dean Dr Kameyama has qualitatively	Beyond his examiner role, Dean Dr Kameyama has decisively and	は関係のない
contributed to the content, methodology and format of this academic	qualitatively contributed to the content, methodology and format of	変更であるた
work.	this academic work	め、訂正を認

		める。
Page 7, Line 16	Page 7, Line 17	論文の内容と
MIT (2007)	MIT (2007-2008)	は関係のない
		変更であるた
		め、訂正を認
		める。
Page 7, Line 25	Page 7, Line 26	論文の内容と
Dr. Nakamura, Head of ITS, for several discussion on ITS,	Dr. Nakamura, Head of ITS, for several discussions on ITS,	は関係のない
		変更であるた
		め、訂正を認
		める。
Page 8, Line 19	Page 8, Line 22-25	論文の内容と
September 2009, Tokyo	I dedicate this reseach to Nikola Tesla (1856-1943), the precursor ot	は関係のない
	Intelligent Transport System, and to my paternal grand-father who	変更であるた
	made -his and mine- dream true: an outstanding global education.	め、訂正を認
	September 2009, Tokyo	める。

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		容・訂正を認
		めた理由
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		め、訂正を認
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Page 11-15	Page 11-15	訂正に伴う事
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Page 11, Line 40	削除	該当セクショ
3.2.5 Conclusion		ンが削除され
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		たため、目次
		からの削除を
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Chapter I Introduction

		→
訂正前	訂正後	訂正理由と内
		容・訂正を認め
		た理由
Page 16, Line 5-7	Page 16, Line 5-6	エディトリアル
As road traffic problems became societal and economic issues, a new	As road traffic problems became societal and economic issues, a	修正であるた
set of technologies has emerged to address these issues, called	new set of technologies has emerged, Intelligent Transport Systems	め、訂正を認め
Intelligent Transport Systems (ITS).	(ITS).	る。
Page 16, Line 18-20	Page 16, Line 17-19	
1. the 1996 "Comprehensive Plan for ITS in Japan" which	1. 1996 "Comprehensive Plan for ITS in Japan" which specifically	
specifically defines ITS as a "comprehensive info-communications"	defines ITS as a "comprehensive info-communications system	であり、訂正を
system dealing with transportation" which can "display a clear	dealing with transportation" which can "display a clear example of	認める。
example of an advanced info-communications society project"	an advanced info-communications society project" ²	
Page 18, Line 3-4	Page 18, Line 3-4	エディトリアル
In July 1996, five government bodies compiled a "Comprehensive	In July 1996, five government institutions brought together a	修正であるた
Plan for ITS in Japan"	"Comprehensive Plan for ITS in Japan"	
		め、訂正を認め
		る。
Page 18, Line 6-7	Page 18, Line 6-7	参考文献の追加
1. ITS is defined as a comprehensive info-communications system	1. ITS is defined as a comprehensive info-communications system	であり、訂正を
dealing transportation and	dealing transportation ³ and	認める。
Page 18, Line 8-9	Page 18, Line 8-9	参考文献の追加
2. ITS can display a clear example of an advanced info-	2. ITS can display a clear example of an advanced info-	であり、訂正を
communications society project.	<i>communications society project</i> ⁴ .	認める。
Page 18, Line 10-12	Page 18, Line 10-12	参考文献の追加
<i>3. ITS brings a dynamic and intense international competition behind</i>	3. ITS brings a dynamic and intense international competition	であり、訂正を
the scenes in the field of technological development. Japan should	behind the scenes in the field of technological development. Japan	にのり、自止を認める。
seize this opportunity to take the lead in the international arena	should seize this opportunity to take the lead in the international	
through ITS promotion.	arena through ITS promotion ⁵ .	
Page 18, Line 13-14	Page 18, Line 13-14	参考文献の追加
4. ITS-related sectors as automobile and high-tech industries will	4. ITS-related sectors as automobile and high-tech industries will	であり、訂正を
have significant ripple effects on the Japanese economy, for instance,	have significant ripple effects on the Japanese economy, for	, , <u>-</u> G

Page 18, Line 27Page 18, Line 27*********************************
Page 22, Line 12-15 Page 22, Line 12-15 In a Developmental State, the state takes the leadership in catching up the technological frontier; while in an Entrepreneurial State, the state take sthe leadership role in pushing the technological frontier further to e.g. create a new industry and, thus a market. Page 22, Line 20-22 In a Developmental State, the State is catching up the technological frontier further to e.g. create a new industry and, thus a market. エディトリアル Page 22, Line 20-22 Page 22, Line 12-14 They are mostly sophisticated pre-crash safety technologies, based on the wireless communication between in-vehicle devices and roadside equipments, and also between in-vehicle devices on multiple vehicles. They are mostly sophisticated pre-crash safety technologies, based on the wireless communication between in-vehicle devices and roadside on the wireless communication between in-vehicle devices on multiple vehicles. They are mostly sophisticated pre-crash safety technologies, based on the wireless communication between in-vehicle devices on multiple vehicles. They are mostly sophisticated pre-crash safety technologies and roadside on the wireless communication industries ⁸⁵⁰ Setter 5a 5c. Setter 5a 5c. Page 23, Line 26-27 Creation of new ITS industry (Chapter VII): Japan stated it wanted to use ITS as engine and test bed for next generation infocommunication industries ⁸⁵⁰ Creation of new ITS industry (Chapter VII): Japan stated it proter secue and emergency services systems and emergency medical facilities. Free 23, Line 20-23 The government will improve rescue and emergency services by promoting closer liaison and coooperation with emergency-related or granication such
Page 22, Line 12-15Page 22, Line 5-7Xin a Developmental State, the state takes the leadership in catching up the technological frontier; while in an Entrepreneurial State, the state takes the leadership role in pushing the technological frontier further to create a new industry and, thus a market.Page 22, Line 5-7Xin a Developmental State, the State is catching up the technological frontier; while in an Entrepreneurial State, the State has leadership in pushing the technological frontier further to create a new industry and, thus a market.Xin z Exceeds to create a new industry and, thus a market.Xin z Exceeds to create a new industry and, thus a market.Xin z Exceeds to create a new industry and, thus a market.Xin z Exceeds to create a new industry and, thus a market.Xin z Exceeds to create a new industry and, thus a market.Xin z Exceeds to create a new industry and, thus a market.Xin z Exceeds to create a new industry and, thus a market.Xin z Exceeds to create a new industry and, thus a market.Yin a Developmental State, the State is catching up the technological frontier further to e.g. create a new industry and, thus a market.Yin a Developmental State, the State is catching up the technological frontier further to e.g. create a new industry and, thus a market.Yin a Developmental State, the State is catching up the technological frontier further to e.g. create a new industry and, thus a market.Yin a Developmental State, the State is catching up the technological frontier further to e.g. create a new industry and, thus a market.Yin the various for the chnological frontier further to e.g. create a new industry and, thus a market.Yin the various for the chnological frontier further to e.g. create a new industry and, thus a market.Yin for the for for the for for for for for
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Venicles.multiple venicles.Page 23, Line 26-27Creation of new ITS industry (Chapter VII): Japan stated it wanted to use ITS as engine and test bed for next generation info- communication industriesPage 23, Line 15-16参考文献の追加 であり、訂正を 認める。Page 24, Line 4-17Creation of new IT Reform Strategy (NITRS) and the 8th safety program, the following specific statements are related to post-crash systems:Page 23, Line 20-23不長な記述を削 除し、簡潔に内 容を表現する形 式に変更してい る。論旨に影響 industries* The government will improve rescue and emergency services systems and emergency medical care services by promoting closer liaison and cooperation with emergency-related organizations such as emergency medical facilities.Page 23, Line 15-16冗長な記述を削 なあう、
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communication industriescommunication industriesPage 24, Line 4-17Page 23, Line 20-23From the New IT Reform Strategy (NITRS) and the 8 th safety program, the following specific statements are related to post-crash systems:From the New IT Reform Strategy (NITRS) and the 8 th safety program, these post-crash concerns and policy goals are identified by official documents, no post-crash safety measures are currently under study as in other safety areas such as pre-crash safety measures in Japan.冗長な記述を削 除し、簡潔に内 容を表現する形 式に変更してい る。論旨に影響 はないため、訂 正を認める。
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closer liaison and cooperation with emergency-related organizations such as emergency medical facilities. • collaboration between the various involved government agencies はないため、訂正を認める。
organizations such as emergency medical facilities. • collaboration between the various involved government agencies 正を認める。
as well as the private sector to realize advanced ITS and leads Japan into the world's safest road traffic society.
 The improved systems will be designed to deal with road traffic
accidents to save the lives of people injured in traffic accidents
and to minimize the harm and damage caused by accidents. Although these post-crash concerns and policy goals are identified by
official documents, no post-crash safety measures are currently under
study as in other safety areas such as pre-crash safety measures in
Japan. Press 25 Line 10 21 Turb 支田本 工田本 大田本 大田本 大田本 大田本 大田本 大田本 大田本 大田本 大田本 大
Page 25, Line 19-21Page 24, Line 27 - Page 25, Line 1不明確な表現をChapter VII, entitled "New Industry", looks first into the role ofChapter VII, entitled "New Industry", looks first into the role of不明確な表現を
PPP in the creation of the new industry. What the public sector does PPP in the creation of the new industry. What the public sector does Uて、訂正を認

(or doesn't) in relation to ITS do have a direct and profound effect on industry structure and business models.	does (or doesn't) in connection to ITS strongly influence several industries (Transport, Car, Telecom) structure and related business models.	める。
Page 25, Line 26 - Page 26, Line 2 Japan has been already successful in translating its strengths in vehicle, telecom and electronics technology into VICS. In addition, Japanese consumers have traditionally been early adopters of new and often disruptive technology-based products and services such as VICS or i-mode earlier. ITS deployment is expecting to create ITS related markets for infrastructures, terminal equipment and applications.	Page 25, Line 5-11 Japan has been very successful in integrating its technological superiority in automobile, telecom and IT into ITS locally, into a converging disruptive technological innovation: VICS. Furthermore, Japanese buyers have habitually been early adopters of novel and often disruptive technologies and application such as VICS or I-mode earlier. ITS deployment is expecting to create related markets for	不明確な表現を 修正したものと して、訂正を認 める。
Page 27, Line 9 - Page 28, Line 2 In any society, people need to get from the places where they live to the places where they work (study, shop) and back again, conveniently, safely, and affordably. As transport plays a major role in the society, moving both people and goods, society's decision-makers designed policies to improve transport efficiencies. Transport policy decision-makers have long taken a variety of traditional measures to address these road traffic problems such as accidents and congestion. These measures include the construction of additional roads and the improvement of public transport facilities and constraining vehicle use through taxes and traffic regulations.	infrastructures, equipment and applications. Page 27, Line 2-3 As transport plays a major role in the society, moving both people and goods, society's decision-makers designed policies to improve transport efficiencies.	冗長な記述を削 除し、簡潔に内 容を表現する形 式に変更してい る。論旨に影響 はないため、訂 正を認める。
Page 28, Line 12-16 In the dissertation, the author has adopted the Japanese definition of ITS as mentioned in the "Comprehensive Plan for ITS in Japan" issued by Prime Minister Office in 1996, which is as follows: <i>ITS as a "comprehensive info-communications system dealing with transportation</i> " which can "display a clear example of an advanced info-communications society project".	Page 27, Line 13-17 In the dissertation, the author has adopted the Japanese definition of ITS as mentioned in the "Comprehensive Plan for ITS in Japan" issued by Prime Minister Office in 1996, which is as follows: <i>ITS as a "comprehensive info-communications system dealing with transportation</i> " which can "display a clear example of an advanced info-communications society project ⁹ ".	参考文献の追加 であり、訂正を 認める。
Page 28, Line 18-22 Beside the above mentioned "Comprehensive Plan for ITS in Japan", as Japan's Prime Minister Office set a national ITS policy as part of a national telecom policy, Japan stated it wanted to use ITS as engine and test bed for next generation info-communication industries by the introduction of 3G and 4G mobile systems .	Page 27, Line 19-23 Beside the above mentioned "Comprehensive Plan for ITS in Japan", as Japan's Prime Minister Office set a national ITS policy as part of a national telecom policy, Japan stated it wanted to use ITS as engine and "test bed for next generation info- communication industries ¹⁰ " by the introduction of 3G and 4G mobile systems.	参考文献の追加 であり、訂正を 認める。
Page 28, Line 22-25 In 1999, the Telecommunications Technology Council (TTC) mentioned in "Info-communications Systems of ITS" report that ITS	Page 27, Line 23 - Page 28, Line 1 In 1999, the Telecommunications Technology Council (TTC) mentioned in "Info-communications Systems of ITS" report that	参考文献の追加 であり、訂正を

would be a major driving force for info-telecom network where ITS and its related R&D are considered as a sub-field of the "info-communication"	ITS would be a major driving force for info-telecom network where ITS and its related R&D are considered as a sub-field of the "info-communication" ¹¹ .	認める。
Page 28, Line 25 - Page 29, Line 1	Page 28, Line 1-4	エディトリアル
In 2001, "e-Japan Strategy" advocates the development of Japan as	In 2001 , "e-Japan Strategy" advocates Japan becoming the world's	修正であるた
the world's most advanced telecom nation by pursuing the	most advanced telecom country by pursuing the development of	め、訂正を認め
development of ITS systems as part of a strategy to develop its	ITS systems as part of a strategy to develop its	
telecommunication infrastructure.	telecommunication infrastructure.	る。
Page 28, Footnote	Page 27, Footnote	参考文献の追加
1995 is the year where Japan directly linked the transportation and	1995 is the year where Japan directly linked the transportation and	であり、訂正を
telecommunication in an official document (Comprehensive Plan for	telecommunication in an official document (Comprehensive Plan	認める。
ITS in Japan, see chapter II)	for ITS in Japan	
	http://www.kantei.go.jp/jp/singi/it2/pc/kaikaku.pdf, see chapter II)	
Page 29, Line 1-3	Page 28, Line 4-5	参考文献の追加
The 2001 "Science and Technology Basic Plan" considers ITS as a	The 2001 "Science and Technology Basic Plan" considers ITS as a	であり、訂正を
sub-field of the info-telecommunication field which is one of four	sub-field of the info-telecommunication field which is one of four	認める。
priority fields.	priority fields ¹² .	
Page 29, Line 3-5	Page 28, Line 6-8	エディトリアル
u-Japan Strategy 2005 aims at promoting the development of a	u-Japan Strategy 2005 aims at promoting the development of a	修正であるた
ubiquitous network infrastructure that enables access to network	ubiquitous network infrastructure enabling network access	め、訂正を認め
at "anytime, anyplace, by anything and anyone" and also aimed at	"anytime, anyplace, by anything and anyone" and also aimed at	る。
creating applications for ITS.	creating applications for ITS.	る。
Page 29, Line 6-8	Page 28, Line 9-11	エディトリアル
Japan consider ITS as a tool and an opportunity to apply and develop	Japan consider ITS as a tool and an opportunity to apply and	修正であるた
telecommunication infrastructure for the transport sector while many	develop telecommunication infrastructure for the transport sector	め、訂正を認め
countries have positioned their ITS plans as integral parts of their	while most nations positioned ITS as parts of their transportation	る。
traffic and transportation policies.	policies.	<i>、</i> し。
Page 29, Line 12-25	削除	冗長な記述を削
MLIT ¹ , Japan		除している。論
The Intelligent Transport Systems is intended for advances in		旨に影響はない
navigation systems, establishment of electronic toll collection,		ため、訂正を認
assistance for safe driving, optimization of traffic management and		める。
increasing efficiency in road management by building an integrated		ゆる。
system of people, roads and vehicles utilizing advanced data		
communication technologies. While providing users with quick		
information required for their safe and comfortable travel in ways		
easy to understand, ITS makes automated vehicle operations possible		
by making the most of information and control technology. With		
these operations, ITS makes it possible for users to enjoy a high level		
of use of roads and reduces many of the workloads commonly		

associated with driving, walking, and cycling. In this way, ITS will		
accomplish a major improvement in road transport safety, efficiency		
and comfort, and traffic operations and congestion, thereby		
significantly contributing to the realization of an improved quality of		
life and environmental conservation.		
Page 29, Line 26 – Page 30 Line 11	Page 28, Line 16-29	参考文献番号の
ITS Japan ²	ITS Japan ¹³	修正、参考文献
ITS offers a fundamental solution to various issues concerning	For ITS Japan (www.its-jp.org) ITS offers "a fundamental	の追加、引用の
transportation, which includes traffic accidents, congestion and	solution to various issues concerning transportation, which	明確化の修正で
environmental pollution. ITS deals with these issues through the most	includes traffic accidents, congestion and environmental pollution.	あり、訂正を認
advanced communications and control technologies. ITS receives and	ITS deals with these issues through the most advanced	めり、山正を応める。
transmits information on humans, roads and automobiles. By creating	communications and control technologies. ITS receives and	Ø) Ø,
ideal traffic conditions, ITS system will reduce traffic accidents and	transmits information on humans, roads and automobiles. By	
congestion while saving energy and protecting the environment. ITS	creating ideal traffic conditions, ITS system will reduce traffic	
requires not only the roads to be intelligent but variety of	accidents and congestion while saving energy and protecting the	
transportation, such as railroad, aviation and marine, to cooperate with each other. ITS is a national level project that will even change	environment. ITS requires not only the roads to be intelligent but variety of transportation, such as railroad, aviation and marine, to	
the system of society and it has great potential to create new	cooperate with each other. ITS is a national level project that will	
industries and markets. ITS market is expected to expand rapidly	even change the system of society and it has great potential to	
over the next few decades. Japan, as a major technological power,	create new industries and markets. ITS market is expected to	
must work to pioneer new business opportunities by engaging in ITS-	expand rapidly over the next few decades. Japan, as a major	
related research and development needed for constructing new road	technological power, must work to pioneer new business	
transport systems, thereby contributing to the well-being of the	opportunities by engaging in ITS-related research and development	
world.	needed for constructing new road transport systems, thereby	
	contributing to the well-being of the world".	
Page 30, Line 20-21	Page 29, Line 9-10	参考文献の追加
e.g. ITS World Congress 2008 ⁴ : Intelligent Transport Systems	e.g. ITS World Congress (<u>www.itsworldcongres.org</u>) 2008 ¹⁶ :	であり、訂正を
	Intelligent Transport Systems	認める。
Page 31, Line 4-5	Page 29, Line 17-18	エディトリアル
"Telematics" is a French word coined by combining	"Telematics" is a French word combining two words	修正であるた
"telecommunication" and "informatics".	"telecommunication" and "informatics".	め、訂正を認め
		る。
Page 31, Line 15-25	Page 30, Line 6-13	冗長な記述を削
Just as the proliferation of telecommunication has transformed and	ITS is part of the global expansion of telecom as ITS applies	除し、簡潔に内
enhanced everyday business and personal life, ITS has the potential	information and communication technologies to transportation.	容を表現する形
to be a transforming force for the transportation. The advent of ITS is	ITS, just as ICT (Information and Communication Technologies),	式に変更してい
part of the global spread of telecom as ITS applies information and	can be considered as accelerator, driver and multiplier of	る。論旨に影響
communication technologies to transportation. ITS, just as ICT	innovations ¹⁷ . ITS, as ICT before, is pervasive and is not anymore	
(Information and Communication Technologies), can be considered	considered as an end by itself. ITS has obvious benefits, not only	はないため、訂

as accelerator, driver and multiplier of innovations ⁵ . ITS, as ICT before, is pervasive and is no longer seen as an end in itself. ITS has obvious benefits, not only for the transportation sector but also for economic growth as a generic technology, as well as an emerging industry. The benefits of the technology innovation related to ITS new solutions and accrue from the facilitation of types of and economic opportunities that ITS deployment makes possible. Page 32, Line 9-14 The first phase mainly applies IT to specific tasks, but without changing their characteristics. It substituted computers for labor in car industries to speed up execution the execution of traditional tasks, to increase their reliability and to lower their cost. IT has been introduced by Japanese car makers into the vehicle through in-vehicle electronics components. This first phase generally provides savings of time and money. IT has been used to improve the ways	for the transportation sector but also for economic growth as a generic technology, as well as an emerging industry. The benefits of the technological innovation related to ITS create and stimulate new solutions and business opportunities which make ITS deployment feasible Page 30, Line 22 - Page 31, Line 2 The first phase applies IT to tasks, but without changing their characteristics. It substituted computers for labor in car industries to accelerate implementation of tasks, to increase reliability and to decrease cost. IT has been introduced by Japanese car makers into the vehicle through in-vehicle electronics components. This first phase provides savings of time and money.	正を認める。 て長な記述を削 除し、表現する形 式に変更して影響 はないため、訂 正を認める。
 traditionally things are done. Page 32, Line 16-23 Like many other parts of private or public sectors, the construction creation and operation of transport infrastructure is being transformed by telecommunications. In the second phase, entirely new approaches new approaches to solving problems and conducting business appear through new ways of thinking about problems and achieving goals. Indeed, as traffic problems are rapidly getting worse, traditional approaches (i.e. increasing roads) to address these problems are having only limited results. New technologically advanced telecom approaches emerged to address these problems, Intelligent Transport Systems (ITS), as shown in Figure 1.4 	Page 31, Line 4-11 Like many other parts of private or public sectors, the establishment and operation of transport infrastructure is being changed by telecommunications. In the second phase, totally innovative methods appear to solving problems and achieving goals. Indeed, as traffic problems got worse, conventional approaches (i.e. increasing roads) are having only limited results. New telecom approaches emerged: Intelligent Transport Systems (ITS), as shown in Figure 1.4	冗長な記述を削 除し、簡潔に内 容を表現する形 式に変更してい る。論旨に影響 はないため、訂 正を認める。
Page 33, Line 18-21 This concept of ubiquity reflects explain the trend where computing/communicating devices become increasingly invisible or transparent, embedded, intelligent, and deployed in a variety of settings such as the home, office and vehicle.	Page 32, Line 10-12 This concept of ubiquity describes the ICT development where devices become invisible or transparent, smart and installed in various location such as home, office and vehicle.	冗長な記述を削 除し、簡潔に内 容を表現する形 式に変更してい る。論旨に影響 はないため、訂 正を認める。

Chapter II Policy		
訂正前	訂正後	訂正理由と内
		容・訂正を認め
		た理由
Page 35, Line 6-8For Weiss, the industrial-technological transformation of an economy involves the capacity for generating innovations: innovation policy should be keeping up with technological policy ⁷ .Page 36, Line 4-7	Page 34, Line 6-8For Weiss, the technological transformation of an economy involves the aptitude for creating innovations: innovation policy should be keeping up with technological policy ¹⁹ .Page 35, Line 1-3	エディトリアル 修正であるた め、訂正を認め る。 冗長な記述を削
Fage 56, Effe 4-7 Industrial policies that are in accordance with a developmental state vision become less adequate as technology gaps are reduced and as innovation is needed. Indeed the goals of the catching-up industries do fit specifically to the "developmental state" path of the leading economies.	Page 35, Line 1-5 Developmental State policies become less adequate as technology gaps are reduced and as innovation is needed. Indeed, the goals of the catching-up industries do fit specifically to the "developmental state" path of the leading economies.	除し、簡潔に内 容を表現する形 式に変更し、エ ディトリアル修 正をしている。 論旨に影響はな いため、訂正を 認める。
Page 36, Line 12-15 Schumpeter ¹² considers economic development with innovation as the internal force of change, carried out by entrepreneurial leadership. The entrepreneurial function is defined by the introduction of technological innovation into an economic system.	Page 35, Line 8-11 Schumpeter ²⁴ considers economic development with innovation as the internal force of change, carried out by entrepreneurial leadership where the entrepreneurial function is defined by the introduction of technological innovation into an economic system.	二つの文を一つ にし、引用の範 囲を明確化して いるため、訂正 を認める。
Page 36, Line 25 - Page 37, Line 16 Ebner ¹⁶ states that it may be argued that entrepreneurship resembles a distinct set of state functions, which requires a conceptual framework of its own: the entrepreneurial state. Yu ¹⁷ contends that the entrepreneurial state is introduced by arguing that governments may act as entrepreneurs when their agents exercise alertness in the discovery of development opportunities. The behavioral dimension of entrepreneurship constitutes a key concern of the Schumpeterian theory of the state. Schumpeter ¹⁸ modeled economic development as an evolutionary process, driven by the entrepreneurial introduction of innovation in an established economic setting. This entrepreneurial function is carried out by historically specific agents whose leadership position enables them to enforce change by introducing novelty, which means that even government may carry out the entrepreneurial function in the setting	Page 35, Line 21 - Page 36, Line 3 Yu ²⁸ contends that governments may act as entrepreneurial agents aiming at innovation opportunities. The behavioral dimension of entrepreneurship constitutes a key concept of the Schumpeterian theory of the state. Schumpeter ²⁹ defined economic development as driven by the entrepreneurial introduction of innovation. This entrepreneurial function is initiated by agents who enables them to enforce change through innovation, where government may carry out the entrepreneurial function ³⁰ . Schumpeter's ³¹ concept includes the idea of an entrepreneurial state" which carry out the entrepreneurial function directly. Ebner ³² points out that the entrepreneurial state promotes innovation as a socio-economic process which would determines the carrying out of the entrepreneurial function, namely introducing novelty in an economic system.	冗長なエディト リアル修正をし て引用の範囲を 明確化している ため、訂正を認 める。

of capitalist development quite in accordance with the notion of entrepreneurship as institutional leadership. Schumpeter's ¹⁹ concept includes the idea of an entrepreneurial state": the state could carry out the entrepreneurial function directly by exercising economic leadership. Ebner ²⁰ points out that the notion of the entrepreneurial state addresses the policy-related matter of technological innovation, institutional change and political leadership. The entrepreneurial state promotes innovation as a socio-economic process on an economy- wide scale. This innovation policy determines the performance of the entrepreneurial state in the carrying out of the entrepreneurial function, namely introducing novelty in an economic system. Page 39, Line 1-3	Page 37, Line 15-16	冗長性をなくす
ARTS (Advanced Road Transportation Systems) project: the concept on road traffic through integration of roads and vehicles was pursued (late 1980s-nineties)	ARTS (Advanced Road Transportation Systems) traffic project through integration of roads and vehicles (late 1980s-nineties)	エディトリアル 修正であるた め、訂正を認め る。
Page 39, Line 6-7 ASV (Advanced Safety Vehicle) project for research and development of vehicle safety technologies	Page 37, Line 19 ASV (Advanced Safety Vehicle) project for vehicle safety technologies	冗長性をなくす エディトリアル 修正であるた め、訂正を認め る。
Page 39, Line 16-17 SSVS (Super Smart Vehicle System) project for intelligent vehicle traffic system	Page 37, Line 27 SSVS (Super Smart Vehicle System) project for intelligent traffic system	冗長性をなくす エディトリアル 修正であるた め、訂正を認め る。
Page 39, Line 23-28 In the early eighties, Japanese ITS projects have been initiated by the Ministry of Construction (MOC). In late eighties, hegemony shifted to the Ministry of Post and Telecommunication (MPT) and the Ministry of International Trade and Industry (METI) that were given responsibility for industrial and telecommunication policies after recognition that Japan lagged in info-telecommunication technologies.	Page 38, Line 4-9 Public Sector initiatives on Japanese ITS projects have been initiated by the Ministry of Construction (MOC) in the early eighties then have been shifted in the late eighties to the Ministry of International Trade and Industry (METI) and the Ministry of Post and Telecommunication (MPT) that were given responsibility for industrial and telecommunication policies after recognition that Japan lagged in info-telecommunication technologies.	冗長性をなくし て簡潔に表現す るためのエディ トリアル修正で あるため、訂正 を認める。
Page 39, Line 28 - Page 40, Line 3 Indeed, after the shift of ITS ministerial leadership from MOC to both MITI and MPT, Japan stated it wanted to use ITS as engine and	Page 38, Line 11-13 Indeed, after the shift of ITS ministerial leadership from MOC to both MITI and MPT, Japan stated it wanted to use ITS as	簡潔に表現する ためのエディト

test bed for next generation info-communication industries with the concept of "making a moving car into an office or living room" ³⁰ . Page 40, Line 16-20 In 1995, the Advanced Information Telecommunications Society Promotion Headquarters (headed by the Prime Minister) determined the "Basic Guidelines on the Promotion of an Advanced Information and Telecommunications Society", which included a policy guideline for promoting ITS which stated a comprehensive and systematic promotion of:	locomotive for next generation info-communication technologies" ⁴² . Page 38, Line 26 - Page 39, Line 2 In 1995, the Advanced Information Telecommunications Society Promotion Headquarters (headed by the Prime Minister) determined the "Basic Guidelines on the Promotion of an Advanced Information and Telecommunications Society ⁴⁴ ", which included a policy guideline for promoting:	リアル修正であ るため、修正を 認める。 参考文献を追加 し、冗長な表現 を修正してるた め、訂正を認め る。
Page 40, Line 24 3) International cooperation concerning ITS.	Page 39, Line 5 3) International cooperation on ITS ⁴⁵ .	参考文献を追加 し、冗長な表現 を修正してるた め、訂正を認め る。
 Page 41, Line 1-8 The 1995 "Guidelines" was the first document to position ITS related projects on the level of a national and multi-ministerial project. It defined ITS as a driving force for "introducing information technology (IT) into the public sector" indispensable for promoting creation of an advanced info-communications society". ITS was regarded both as a new kind of infrastructure that supports providing information and a digitalization of management/operation of conventional transport-related infrastructure. 	 Page 39, Line 8-12 These Basic Guidelines position ITS as national and multiministerial driving force for the creation of an advanced infocommunications society. ITS was regarded both as information infrastructure and a digitalization of management/operation of conventional transport-related infrastructure. 	冗長性をなくし て簡潔に表現す るためのエディ トリアル修正で あるため、訂正 を認める。
Page 41, Line 11-14 Under the initiative of the Prime Minister and building on the "Basic Guidelines", five relevant government bodies: MPT, NPA, MITI, MOT and MOC compiled the "Basic Government Guidelines for Advanced Information and Communications in the fields of Roads, Traffic, and Vehicles" in August 1995.	Page 39, Line 15-19 Under the initiative of the Prime Minister and building on the "Basic Government Guidelines", following government entities MITI, MPT, NPA, MOT and MOC decided to meet and to assemble the Basic Government Guidelines for Advanced Information and Communications in the fields of Roads, Traffic, and Vehicles in August 1995.	明確な表現に変 える修正を行っ ているため、訂 正を認める。
Page 42, Line 3-24 In July 1996, the same five government bidies ³² compiled a "Comprehensive Plan for ITS in Japan", presenting a 20 years ITS vision (including four expected development phases) and including the main concepts for ITS development, deployment plans as related	Page 40, Line 4-14 In 1996, these five government entities ⁴⁶ wrote a "Comprehensive Plan for ITS in Japan", presenting a 20 years ITS vision (including four expected development phases) and including the main concepts for ITS development, deployment and objectives.	冗長な表現を削 除し、参考文献 を加えた上で、 引用箇所を明確

 to ITS objectives. "ITS is defined as a comprehensive info-communications system dealing with road traffic and transportation and can display a clear example of an advanced info-communications society project³³. ITS is a policy dealing with millions of vehicles nation-wide. It is expected that developments in such ITS-related sectors as automobile and high-tech industries will have significant ripple effects on the Japanese economy, for instance, for new business creation, at a time when economic difficulties are forecast to continue in Japan for a while. ITS is expected to grow into the core multimedia mobile communications technology with huge market potential in the 21st century. Hope runs high for future success of ITS-related businesses resulting from creation of a variety of applications, just as mobile communications systems have succeeded. ITS has been promoted not only by Japan, but also by the U.S. and countries in Europe, with a considerable amount of resources being expended by these countries. In this respect, ITS brings an dynamic and intense international competition behind the scenes in the field of technological development and international standardization. Japan should seize this opportunity to take the lead in the international arena through ITS promotion. 	 ITS is defined as a "comprehensive info-communications system dealing with road traffic and transportation and can display a clear example of an advanced info-communications society project^{47 48}"." The plan states that Developments in ITS-related automobile and high-tech industries will have significant impacts on the Japanese economy for new business creation⁴⁹. ITS-related businesses will result in creation of applications; just as mobile communications systems have succeeded. Japan might take this opportunity to lead globally through ITS activities. 	化しているため、訂正を認める。
Page 43, Line 3-7 <u>The 21 user services based on ITS System Architecture</u> <u>nomenclature³⁴</u> In order to clarify information and functions necessary for ITS services, 21 user services in nine development areas were divided into 56 specific user services, and then into 172 specific user sub- services, thus comprising a whole system of user services. Each sub- service was defined in detail to clarify particular services provided.	削除	冗長な記述の削 除と認められる ため、訂正を認 める。
 Page 43, Line 9-13 The 1995 Basic Guidelines were revised in November 1998 to include new headings of: 4) Promotion of VICS advancement, and 5) ITS promotion in local communities, enhancing the government's ITS policy. Page 43, Line 14 - Page 44, Line 18 	Page 40, Line 21-23 The 1995 Basic Guidelines added in November 1998 new items: 4) Promotion of advanced VICS 5) promotion of ITS in local communities. Page 40, Line 24 - Page 41 Line 4	 冗長な表現をな くしたエディト リアル修正のた め、訂正を認め る。 冗長な表現をな
System Architecture for ITS in Japan (1999) Added to the 1996 Comprehensive Plan, as telecommunication	System Architecture for ITS in Japan (1999)	くしたエディト

 technology progresses, new ITS services that were enabled by communication technologies were acknowledged. Therefore, in addition to the 20 user services defined in the 1996 Comprehensive Plan, the 21st user service focused on telecom, was defined in the ITS System Architecture as follows: (54) Utilization of information in the advanced information and telecommunications society (55) Utilization of information related to multi-modal transport (56) Coordination of ITS functions with advanced information and telecommunications society ITS system architecture development started in January 1998. Japanese government had been actively involved in R&D of specific technologies that could become ITS core technologies, and VICS, main application of ITS, had already been in service. The "System Architecture" describes how a system would be resulting from research and implementation activities for each constituent system. The System Architecture document consists of: The summary section presents key points in ITS System Architecture content The main text presents and summarizes concepts and conditions concerning construction objectives, achievements, and application objectives. It gives an overview of "User Services, Logical and Physical Architecture". ITS interested parties in government, private sector, and academia^{VI} are strongly advised to refer to "Detailed Materials" for standardization, for ITS research, and for design and development specific ITS systems. 	technology progresses, new ITS services that were enabled by communication technologies were acknowledged by utilizing and coordinating ITS information related to multi-modal transport in the advanced information and telecommunications society	リアル修正のため、訂正を認める。
Page 44, Footnote We can see another example of collaboration promoted by the entrepreneurial state, within a National Innovation System	削除	対象となる本文 が削除されたた め、訂正を認め る。
Page 44, Line 21- Page 45, Line 2TelecommunicationsTechnologyCouncil(TTC)"Info-communicationsSystems of ITS" report (1999)In1999, theTelecommunicationsTechnologyCouncil(TTC)mentioned in "Info-communicationsSystems of ITS" report that ITS	Page 41, Line 7-13 "Info-communications Systems of ITS" report (1999) from the <u>Telecommunications Technology Council (TTC</u> The Telecommunications Technology Council (TTC) mentioned in "Info-communications Systems of ITS" report that "ITS, as a sub-	 冗長な表現を削 除し、参考文献 を追加したた め、訂正を認め る。

would be a major driving force for the Ubiquitous Society. In this report, ITS and its related R&D are considered as a sub-field of the Info-telecommunication. The report reviewed the current state of ITS and formulated technologies development and deployment targets, with some focus on next generation of high-speed mobile communications.	field of the Info-telecommunication, would be a major driving force ⁵⁰ " for the Ubiquitous Society, with technologies development and deployment focus related on next generation of high-speed mobile communications.	
Page 45, Line 4-5 As the IT revolution progressed despite the Japanese economy recession, ITS has come to be regarded as a means of economic revitalization.	Page 41, Line15-16 As the IT revolution progressed despite the economy recession, ITS is regarded as a stimulant for economic revitalization.	冗長な表現をな くしたエディト リアル修正のた め、訂正を認め る。
Page 45, Line 8-11 Government issued policies regarding IT society where ITS is positioned as key component. The "Basic Law on the Formation of IT Society", issued in November 2000, is implying IT-related policy which includes ITS will be given the first priority ³⁵ .	Page 41, Line 19-20 The "Basic Law on the Formation of IT Society", issued in November 2000 IT policy which includes ITS, given first priority ⁵¹ .	冗長な表現をな くしたエディト リアル修正のた め、訂正を認め る。
Page 45, Line 13-17 In 2001, the IT Strategic Headquarters was established, headed by the Prime Minister, to which the responsibilities of the former Advanced Information and Telecommunications Society Promotion Headquarters, set up in 1994, were transferred. The newly created IT Strategic Headquarters took over the responsibility of the promotion of ITS.	Page 41, Line 22-25 In 2001, the IT Strategic Headquarters was established, under the Prime Minister responsibilities where the former "Advanced Information and Telecommunications Society Promotion Headquarters", set up in 1994, were transferred. This newly created IT Strategic Headquarters took over the responsibility of the promotion of ITS.	エディトリアル 修正のため、訂 正を認める。
 Page 45, Line 19 - Page 46, Line 6 "e-Japan Strategy" program has its basis in the "Basic Law on the Formation of an Advanced Information and Telecommunications Network Society (2000)" (see above). The stated goal is to make Japan the world's most advanced ICT nation by 2005. The Program³⁶ defines five priority areas: Formation of advanced information communication network at the world's highest level (provision of high speed network access) Education, promotion of learning and human capacity building (computer literacy education) Promotion of electronic commerce dealing (institutional establishment) Computerization of administration and promotion of 	 Page 42, Line 2-11 "e-Japan Strategy" program originated from "Basic Law on the Formation of an Advanced Information and Telecommunications Network Society (2000)" (see above). The stated goal is having by 2005 Japan as the most advanced ICT nation. The Program defines priority areas⁵² (www.hido.or.jp): Formation of advanced information communication network at the world's highest level (provision of high speed network access) Promotion of electronic commerce Use among the public organizations Establishment of advanced information communication network security and reliability 	冗長な表現をなくし、参考文献を明確化しているため、訂正を認める。

IT use among the public organizations		
(computerization of administrative procedures)		
5. Establishment of advanced information		
communication network security and reliability		
(establishment of information security) Page 46, Line 11-21	Page 42 Line 15 21	マドれ主用たわ
While the " <i>e</i> -Japan Strategy program" advocates, as a national goal,	Page 42, Line 15-21 While the " <i>e</i> -Japan Strategy program focus on Japan becoming	冗長な表現をな
development of Japan into the world's most advanced IT nation	most advanced ICT country within a five years period, " <i>e</i> -Japan	くした修正のた
within five years, the " <i>e</i> -Japan Priority Policy Program" ³⁷ defined	Priority Policy Program ⁵³ designed related policies within the five-	め、訂正を認め
concrete policies and their five-year targets.	year:	る。
1/Formation of the world's most advanced information and	1/the most advanced ICT infrastructures	
telecommunications networks	2/Establishment of an environment where the private sector, based	
2/Establishment of an environment where the private sector, based on	on market forces, can exert its full potential and make Japan the	
market forces, can exert its full potential and make Japan the world's	world's most advanced IT nation within five years.	
most advanced IT nation within five years.		
e-Japan Priority Policy Program stated a concrete program to be		
implemented by the government to reach an advanced information		
and telecommunications network society.		
Page 46 /Line 26 - Page 47, Line 1	Page 42, Line 27-30	論旨を変更しな
In March 2001, the cabinet created the "Science and Technology	In2001, the cabinet created the "Science and Technology Basic	い修正のため、
Basic Plan", which stipulates that the percentage of government	Plan", which stipulates that government R&D investment to be 1%	訂正を認める。
R&D investment to GDP be 1%.ITS related R&D is considered as a	of GDP. ITS related R&D is considered as a part of the info-	
sub-field of the info-telecommunication field, which is one of four	telecommunication priority (the other three priorities being life	
priority fields, the other three being life sciences field, environment	sciences field, environment field and nanotechnology/new	
field and nanotechnology/new materials field. Page 48, Line 9-10	materials). Page 44, Line 7-8	短り放てのた
It also promote the use of new type of information and data services	It also promotes the use of new type of information and data	綴り修正のた は、 訂工 た 割 は
for traffic management	services for traffic management	め、訂正を認め
		る。
Page 49, Line 8 - Page 50, Line 12	Page 45, Line 8 - Page 46, Line 8	冗長な記述を改
In the early eighties, Japanese ITS projects have been initiated by the	Public Sector initiatives on Japanese ITS projects have been	め、参考文献を
Ministry of Construction (MOC). In the late eighties, hegemony	originated by the Ministry of Construction (MOC) in the early	加えて引用を明
shifted to the Ministry of Post and Telecommunication (MPT) and the Ministry of International Trade and Industry (METI) that were	eighties then have been shifted to in the late eighties to the Ministry of International Trade and Industry (METI) and the Ministry of	確化しているた
given responsibility for industrial and telecommunication policies	Post and Telecommunication (MPT) that were given responsibility	め、訂正を認め
after recognition that Japan lagged in info-telecommunication	for industrial and telecommunication policies after recognition that	る。
technologies. This evolution originated from setting a national ITS	Japan lagged in info-telecommunication technologies. This	
policy with ITS as part of a national telecom policy. After the shift of	evolution originated from setting a national ITS policy with ITS as	
ITS ministerial leadership, Japan stated it wanted to use ITS as	part of a national telecom policy. After the shift of ITS ministerial	
engine and test bed for next generation info-communication	leadership, Japan stated it wanted to use ITS as engine and test bed	

industries ³⁸ by the introduction of 3G and 4G mobile systems. "e- Japan Strategy" advocates the development of Japan as the world's most advanced telecom nation by pursuing the development of ITS systems as part of a strategy to develop its telecommunication infrastructure, In 1999, the Telecommunications Technology Council (TTC) mentioned in "Info-communications Systems of ITS" report that ITS would be a major driving force for info-telecom network: in this report, ITS and its related R&D are considered as a sub-field of the "info-communication". "ITS info-communications" looks into each of nine R&D areas set out in the "Comprehensive Plan for ITS in Japan." As the first step, the outlook for the ITS info- communications systems development in each R&D area was examined for three phases (five-year span each) from 2000 to 2015, with emphasis on the types of information and communication technologies required for each R&D area. The 2001 "Science and Technology Basic Plan" considers 'ITS as a sub-field of the info-telecommunication field which is one of four priority fields. The same plan adopted the realization of the ubiquitous network as one of its 12 achievement goals. Following these objectives, the realization of ITS aimed at accelerating advancement of information-related equipment, and support the progress of an advanced information and telecommunications technologies in other fields. u-Japan Strategy, also called u-Japan Policy (2005) aims at promoting the development of a ubiquitous network infrastructure that enables access to network at "anytime, anyplace, by anything and anyone". In addition to the fixed network (as e-Japan Strategy aimed at) wireless networks development is actively sought in u-Japan strategy, aimed at creating applications for ITS.	for next generation ICT industries ³⁴ by the introduction of 3G and 4G mobile systems. "e-Japan Strategy" advocates Japan becoming the world's most advanced telecom networked country by pursuing the development of ITS systems as part of a strategy to develop its telecommunication infrastructure. The Telecommunications Technology Council (TTC) mentioned in "Info-communications Systems of ITS" report that "ITS, as a subfield of the Info-telecommunication, would be a major driving force ⁵⁵ ". "ITS info-communications" looks into each of R&D focus set out in the "Comprehensive Plan for ITS in Japan." As the first step, the outlook for the ITS info-communication systems development in each R&D area was examined for three phases (five-year span each) from 2000 to 2015, with emphasis on the types of information and communication technologies required for each R&D area. The 2001 "Science and Technology Basic Plan" considers ITS as a part of one of four priorities, the info-telecommunication one. The same plan adopted the realization of the ubiquitous network as one of its 12 achievement goals. u-Japan Strategy, also called u-Japan Policy (2005) aims at ubiquitous network infrastructure that enables access to network at "anytime, anyplace, by anything and anyone". In addition to the fixed network (as e-Japan Strategy aimed at) wireless networks development is actively sought in u-Japan strategy, aimed at creating applications for ITS.	
 Page 50, Line 17-29 The 1995 "Guidelines" defined ITS as a driving force for "introducing information technology (IT) into the public sector," indispensable for promoting creation of an advanced infocommunications society". In 1999, the Telecommunications Technology Council (TTC) mentioned in "Info-communications Systems of ITS" report that ITS would be a major driving force for the Ubiquitous Society. "e-Japan Strategy" (2001) advocates development of Japan into the world's most advanced society. U-Japan Policy follows e-Japan 	Page 46, Line 12-20 The 1995 "Guidelines" defined ITS as a "driving force for introducing IT into the public sector," indispensable for the creation of an advanced info-communications society ⁵⁶ ". In 1999, the Telecommunications Technology Council (TTC) mentioned that ITS become the one of the main pillar the Ubiquitous Society. "e-Japan Strategy" (2001) advocates Japan into the world's most advanced society. U-Japan Policy follows e-Japan Strategy at aiming Japan not only to be one of the most advanced IT nations by	参考文献を明示 して引用を明確 化し、軽微なエ ディトリアル修 正のため、訂正 を認める。

Strategy at aiming Japan not only to be one of the most advanced IT nations by 2005 but also at aiming to be the front-runner in offering services based on the IT infrastructure	2005 but also at aiming to be the front-runner in offering services based on the IT infrastructure.	
Page 51, Line 4-8 ITS in Japan is expected to expand traditional markets for the auto, consumer electronics and communication-related industries i.e. on the car maker's side, ITS offers means of adding new functions and values to their products or improving the quality of the products themselves.	Page 46, Line 27- Page 47, Line 2 ITS in Japan is expected to expand traditional markets for the auto, consumer electronics and communication-related industries i.e. on the car maker's side, ITS offers opportunities of developing new applications, values and quality to their services/products.	論旨を変更しな い修正のため、 訂正を認める。
Page 51, Line 14-25 In fact, Japan has been already successful in translating its strengths in vehicle, telecom and electronics technology into a converging disruptive technological innovation: VICS. In addition, Japanese consumers have traditionally been early adopters of new and often disruptive technology-based products and services such as VICS or I- mode earlier. Hopes runs high regarding ITS in Japan for additional success of ITS-related businesses resulting from creation of this variety of applications, just as mobile phones and other mobile communications systems have succeeded. ITS deployment is expecting to create ITS related markets for infrastructures, terminal equipment, and applications. It is also expected that ITS will generate markets for new technology. Some examples are future mobile communications conceptualized, beside VICS, in safety-based projects such as Smartcar (Smart Vehicle) and Smartway (Smart Highway).	Page 47, Line 8-17 In fact, Japan has been very successful in integrating its technological superiority in automobile, telecom and IT into ITS, into a converging disruptive technological innovation: VICS. Furthermore, Japanese buyers have habitually been early adopters of novel and often disruptive technologies and application such as VICS and I-mode earlier. Hopes in Japan that ITS technologies and applications success will duplicate mobile communications success. ITS deployment is expecting to create ITS related markets for infrastructures, equipment, and applications. Some examples are future mobile communications conceptualized, beside VICS, in safety-based projects such as Smartcar (Smart Vehicle) and Smartway (Smart Highway).	冗長な表現をな くした修正のた め、訂正を認め る。
Page 52, Line 5-8 Japan recognizes ITS as an opportunity to advance its industrial and trade interests. Japan pursues international ITS standardization with a view to advance Japan's competitive position.	Page 47, Line 23-25 Japan believes that ITS as an opportunity to spread its industrial and business (additionally to international ITS standardization) competitive position.	冗長な表現をな くした修正のた め、訂正を認め る。
Page 52, Line 24 - Page 53, Line 1 Japan started R&D on pre-crash safety technologies in the seventies. In 1969, Japan Automobile Research Institute (JARI) was established to engage in general research on automobiles. In 1973, work on Comprehensive Automobile Traffic Control System (CACS) was initiated by the Ministry of International Trade and Industry, with the development of a route guidance system and test operations.	Page 48, Line 14-19 Japan started R&D on pre-crash safety technologies in the seventies, as described by ITS Japan (<u>www.its.go.jp</u>) In 1969, Japan Automobile Research Institute (JARI) was established to engage in general research on automobiles. In 1973, work on Comprehensive Automobile Traffic Control System (CACS) was initiated by the Ministry of International Trade and Industry ⁵⁹ .	参考文献を明示 して冗長な表現 を削除したた め、訂正を認め る。
Page 53, Line 2-5During the 1980s, work on Road/Automobile Communication	Page 48, Line 20-23During the 1980s, work on Road/Automobile Communication	参考文献を明示 したため、訂正

System (RACS) by the Ministry of Construction, and Advanced Mobile Traffic Information and Communication Systems (AMTICS) by the National Police Agency (NPA) was carried out.Page 53, Line 5-14From the 1980s through the 1990s, Advanced Road Transportation Systems (ARTS, a Ministry of Construction project), concept on advancement of road traffic through integration of roads and vehicles was pursued. Accompanying this project were various others project, including Super Smart Vehicle System (SSVS) intended for the intelligent vehicle traffic system (a Ministry of International Trade and Industry project), Advanced Safety Vehicle (ASV) intended for promotion of research and development of vehicle safety technologies (a Ministry of Transport project), and Universal Traffic Management System (UTMS) intended for comprehensive traffic management (a National Police Agency project).	System (RACS) by the Ministry of Construction, and Advanced Mobile Traffic Information and Communication Systems (AMTICS) by the National Police Agency (NPA) was carried out ⁶⁰ . Page 48, Line 24 - Page 49, Line 3 From the 1980s through the 1990s, Advanced Road Transportation Systems (ARTS, a Ministry of Construction project),Super Smart Vehicle System (SSVS) intended for the intelligent vehicle traffic system (a Ministry of International Trade and Industry project), Advanced Safety Vehicle (ASV) intended for promotion of research and development of vehicle safety technologies (a Ministry of Transport project), and Universal Traffic Management System (UTMS) intended for comprehensive traffic management (a National Police Agency project) ⁶¹ .	参考文献を明示 して冗長な表現 を削除したた め、訂正を認め
Page 54, Line 1-4 ITS Japan policy aims at providing the technological foundation to the Ubiquitous Society, expanding existing businesses, at revitalizing the economy and, ultimately, at creating new industries for the auto and communication-related industries, both locally and globally.	Page 49, Line 17-20 ITS Japan policy aims at providing the technological foundation to the Ubiquitous Society, expanding existing businesses, at revitalizing the economy and, ultimately, at creating new business opportunities for the auto and ICT industries, both locally and globally.	論旨を変更しな い修正のため、 訂正を認める。

Chapter III Technology

	ニャーナム	⇒
訂正前	訂正後	訂正理由と内
		容・訂正を認め
		た理由
Page 55, Line 15-19	Page 50, Line 15-17	冗長な表現をな
For Schumpeter ⁴² , innovations are taken in a broad sense of new	For Schumpeter ⁶³ , innovations include new products, new ways	くした修正のた
"combinations" of producers and means of production, which	and means of production, new markets, or reorganization of an	め、訂正を認め
includes new products, new methods of production, opening up of	industry.	る。
new markets, utilization of new raw materials, or even the		<i>`</i> ∂₀
reorganization of a sector of the economy.		
Page 55 - Page 56, Footnote	Page 50, Footnote	引用符を挿入し
^{xi} Freeman also mentions two additional types of innovation: changes	^x Freeman also mentions two additional types of innovation:	て引用箇所を明
of technological systems, as a result of radical innovations that affect	changes of technological systems, as "a result of radical	確化したため、
several branches of an economy; and changes of techno-economic	innovations that affect several branches of an economy"; and	訂正を認める。
paradigm which affect every other branch of the entire economy	changes of techno-economic paradigm" which affect every other	
(such as the information and communication technology revolution)	branch of the entire economy (such as the information and	
	communication technology revolution)"	
Page 56, Line 6-10	Page 51, Line 6-11 (5	引用先を明示
Harvard's Clayton Christensen ⁴⁴ developed the following	Harvard's Clayton Christensen ⁶⁵ (Christensen, 1997) developed	し、引用符を挿
technological concepts:	the following technological concepts:	入し、引用箇所
• sustaining technologies, as technologies that improve the	• sustaining technologies, as "technologies that improve	を明確化したた
performance of established products along dimensions of	the performance of established products along	め、訂正を認め
performance; and	dimensions of performance"; and	る。
• disruptive technologies, as technologies that generally	• <i>disruptive</i> technologies, as "technologies that generally	3 0
under-perform established products in mainstream markets.	under-perform established products in mainstream	
	markets".	
Page 56, Line 11-17	Page 51, Line 12-16	冗長な表現をな
MIT's Ramsden ⁴⁵ added a macro-economic differentiation as	MIT's Amsden ⁶⁶ added a macro-economic differentiation as	くし、引用符を
follows. The developmental function is decisive in her approach to	follows" "The developmental function is decisive in late	挿入して引用箇
the role of the state in late industrialization as a process in	industrialization in implementing improved technology already in	所を明確化した
implementing improved technology already in use abroad perceived	use abroad perceived as a process. On the other hand, the	ため、訂正を認
as a process. On the other hand, the entrepreneurial function is based	entrepreneurial function is based on the generation of <i>radical</i>	める。
on the generation of <i>radical</i> technological innovations. The	technological innovations. The entrepreneurial government is	$\sim \sim \sim \circ$
entrepreneurial function of government is accordingly carried out	carried out with entrepreneurship and innovation ⁶⁷ .	
with entrepreneurship as the decision maker on production and $\frac{1}{1000}$		
innovation ⁴⁶ .	D 71 L 10 00	
Page 56, Line 19 - Page 57, Line 7	Page 51, Line 18-29	冗長な表現をな
Christensen ⁴⁷ describes a technological innovation's framework,	Christensen ⁶⁸ describes a technological innovation's concept,	くした修正のた
named hereby as "attack from below", as consisting of the three	"attack from below", comprising 3 components:	

elements:	1. First, distinction between sustaining and disruptive	め、訂正を認め
1. First is the distinction between sustaining and disruptive	technologies.	る。
technologies, as described above.	2. Second, the move of products/services to the higher segment	
2. The second element is the traditional performance attributes of a	of the market creates opportunities for disruptive	
product which moves to the higher end of the market.	technologies to "attack from below" and conquer the lower	
Christensen contends that this move creates opportunities for	segment of the market. For Christensen, it's easier to target	
disruptive technologies to "attack from below" and occupy the	potential consumers in the lower-end market	
lower end of the traditional market. For Christensen, it's much	3. 3. Third, as new technology improves it may drive the older	
easier to target potential consumers who aren't buying at all (in	products out of the market. Once the technological innovation	
the lower-end market) than to steal customers from an entrenched	reaches to majority of users, it begins to compete with the	
competitor"	established product. Christensen ⁶⁹ concludes that disruptive	
3. Finally, as the new technology itself improves it may occupy that	technologies may enter emerging market niches, improve with	
an ever-growing share of the market would drive the older	time and ultimately attack established products.	
products into a shrinking and ultimately a profitless corner. Once		
the technological innovation reaches from the early to late		
majority of users, it begins to compete with the established		
product in its traditional market. Christensen ⁴⁸ concludes that		
disruptive technologies may enter and expand emerging market		
niches, in improving with time and ultimately attacking		
established products in their traditional markets.		
Page 57, Line 8-19	Page 52, Line 1-11	参考文献を明示
MIT's Utterback ⁴⁹ adds the concept of "attack from above" and	MIT's Utterback ⁷⁰ complements the concept of "attack from	して冗長な表現
contends that by emphasizing only "attack from below", Christensen	above" in addition to "attack from below", which may be of equal	を削除したた
ignores other patterns of technological innovation, which may be of	or more important. Utterback has presented examples of both	め、訂正を認め
equal or greater importance. Utterback describes digital cameras as an "attack from above": a more expensive technology, and as a	higher performing and higher priced innovation introduced into highest market segments and later moves down towards the lower	る。
counter-example to Christensen's theory. This is because of the	mass market.	-
higher cost and complexity of the digital camera relative to		
conventional photography, which, according to Christensen's	Utterback describes digital cameras as an "attack from above", a more expensive technology, and as a counter-example to	
arguments, might exclude it from being a disruptive innovation.	Christensen's "attack from below". For Utterback, because of the	
Whether or not it is seen as disruptive under Christensen's model,	higher cost and technical complexity of the digital camera,	
digital photography is for Utterback ⁵⁰ undoubtedly innovative and	Christensen might exclude it from being a disruptive innovation ⁷¹ .	
has disrupted the photographic industry. Utterback ⁵¹ concludes that	Digital photography for Utterback 72 has disrupted the	
cases of "attack from below" might have greater potential for	photographic industry who concludes that cases of "attack from	
explosive growth than do those of "attack from above", but in either	above" can be observed as instances of disruptive technological	
pattern it can be observed as instances of dramatic technological	innovation.	
innovation.		
Page 57, Line 20-26	削除	冗長な記述の削
Cooper and Schendel ⁵² , in contrast as well to Christensen's theory,		除と認められる
present the above to below-market progression of a number of		

disruptive products including the ball-point pen, which was originally more expensive than the fountain pen. Continued development resulted in the "throw away" pen, which opened up new market segments. Here, Utterback and Cooper & Schendel have presented examples in which a higher performing and higher priced innovation is introduced into leading established market segments and later moves towards the mass market.		ため、訂正を認 める。
 Page 58, Line 4 - Page 59, Line 16 "Attack from below" study case: Japan reaching the technological frontier, from the Christensen disruptive innovation theory perspective⁵³ As Christensen considers that Japan reached the technological frontier, he also gives his perspective on Japan's technological achievements and standoff from his disruptive innovation theory perspective: The booming Japanese economy from the 1960s through the mid-1980s was one of the most thoroughly studied and admired phenomena of modern times. Since then, Japan, in contrast, has been mired in stagnation that appears to have no end, also named the "macro-economic puzzle". For Christensen, the answer lies primarily at the managerial and microeconomic parallel: why many companies considered the best in the world fell so quickly? For Christensen, their innovations fell victim to levels and with a phenomenon he termed as "disruptive technologies as all of the technologies that drove Japan's economic growth through the 1960s and 1970s were disruptive technology." Christensen states that disruption, is not only a core microeconomic driver of macroeconomic growth, but also has played a fundamental role in economy. For him, once the microeconomic roots of disruptive technology are understood, policymakers can learn how to transform relatively stagnant economis puzzle has a microeconomic parallel: why did so many companies that were once considered the best run in the world stumble so quickly? The answer is that their innovations fell victim to disruptive technologies. Nearly all of the technologies that drove Japan's macroeconomic puzzle has a microeconomic parallel: why did so many companies that were once considered the best run in the world stumble so quickly? The answer is that their innovations fell victim to disruptive technologies. Nearly all of the technologies that drove Japan's stunning economic growth through the 1960s and 1970s were disruptive relative to the dominant American and European	 Page 52, Line 15 - Page 53, Line 6 "Attack from below" study case: Japan reaching the technological frontier, from the Christensen disruptive innovation theory perspective⁷³ As Christensen considers that Japan reached the technological frontier, he also gives his perspective on Japan's technological achievements and standoff from his disruptive innovation theory perspective: The booming Japanese economy sustained from the 1960s through the mid-1980s. Since then, Japan has been stalled in stagnation named the "macro-economic puzzle". For Christensen, Japan's macroeconomic puzzle has a microeconomic parallel: why many companies considered the best in the world fell so quickly? For Christensen, their innovations fell victim to disruptive technologies as all of the technologies that drove Japan's economic growth through the 1960s and 1970s were disruptive Christensen illustrates the case of Toyota attacked the lowest tiers of the North American automobile market in the 1960s with its Corona model. The cars were simple and reliable that they became second cars. Toyota encountered competition from other Japanese companies such as Nissan and Honda. To maintain its profit margins, Toyota then introduced models targeted at more demanding consumers. Honda and Nissan have followed Toyota. Now, these car makers are stuck at the high end of their own markets⁷⁴." Based on Christensen's theory, disruptive technologies set their own trap: Japanese firms are now stuck at the high segment of the markets. 	参考文献を明示 して冗長な表現 を削除したた め、訂正を認め る。

Page 61, Line 11 32. Safety Enhancement for Vulnerable Road Users	Page 54, Line 31 32. Safety Enhancement for Vulnerable Road Users	Boldへの書体変
Page 60, Line 8-9For information, ITS services have been standardized byISO/TC204/WG1 ⁵⁴ which defined a set of fundamental services(safety-related services are in bold):Page 61, Line 11	Page 53, Line 25-27For information, ITS services have been standardized byISO/TC204/WG175 which defined a set of fundamental services76.10 out of the 32 are safety-related services (in bold):Page 54, Line 31	参考文献を明示 したため、訂正 を認める。
 1960s with its Corona model. The cars were so simple and ultimately so reliable that they became second cars in the garages of middle-income Americans. This track worked until Toyota encountered competition in this tier from other Japanese companies such as Nissan, Honda, and Honda Mazda. To maintain its profit margins, Toyota then introduced models targeted at more demanding consumers. Honda and Nissan have followed Toyota in this upmarket march. From the small manufacturers of the cheap Japanese imports of the 1960s, these firms have grown into huge global corporations. Sony is another mentioned example. Between 1950 and 1979, it introduced significant disruptive technologies, including pocket radios, portable televisions, consumer video cameras, and the Walkman. But since 1979, Sony has not created a single new growth market of this genre. Even though it now offers technologically innovative products such as its Playstation and the Vaio line of notebook computers, they are sustaining innovations, not market-creating disruptive ones. Over and over again, Japanese companies succeeded with this approach. But based on Christensen's theory, disruptive technologies also set their own trap. These very firms are now stuck at the high end of their own markets. Their best customers are now the most sophisticated and demanding ones. Page 59, Line 20-28 Advanced Driving Assistance: technologies and related applications for automated systems to improve the performance of the vehicle and the driver to make driving safer Emergency: technologies and related applications to support traveler decision-making before and during a trip Traffic and Demand Management: technologies and related applications to manage traffic flow to reduce traffic demand on roads and congestion 	 Page 53, Line 10-17 Advanced Driving Assistance: technologies and related applications to make driving safer Emergency: technologies and related applications to respond to accidents and emergencies Traveler Information: traveler decision-making technologies and related applications before/during trip Traffic and Demand Management: technologies and related applications to manage traffic congestion 	冗長な表現をな くした修正のた め、訂正を認め る。

		更であり、ケア
		レスミスの修正
		のため、訂正を
		認める。
Page 61, Line 15-28	Page 55, Line 4-10	冗長な表現をな
• Safety technologies and related applications Examples of such technologies and related applications are	 Safety technologies and related applications These technologies focuses on enhancing driving conditions 	くした修正のた
curve speed warning, collision warning, adaptive cruise control, stability control, traction control, lane departure warning,	by providing safety and emergency applications, navigation and traffic information, and location based applications.	め、訂正を認め る。
forward and rear collision avoidance, intersection collision avoidance and lane departure prevention. These technologies	Safety and emergency services technologies include emergency crash notification.	
focuses on enhancing driving conditions by providing safety and	 Vehicle centric technologies and related applications 	
emergency applications, navigation and traffic information, and	These types of solutions aimed at for service and	
location based applications. Safety and emergency services	maintenance monitoring ^{xi} .	
technologies include emergency crash notification.		
Vehicle centric technologies and related applications		
Examples of these technologies and applications are		
diagnostic/prognostic applications such as low-tire pressure or		
fluid-level warnings, and engine monitoring. These types of		
solutions aimed at for service and maintenance monitoring ^{xii} .		
Page 62, Line 6-8	Page 55, Line 16-18	参考文献を明示
Disruptive technological advances in telecommunications and	Disruptive technological advances in telecommunications and	したため、訂正
sensors have made possible the development of a large number of	sensors have made possible the development of a large number of	を認める。
ITS services such as navigation assistance, remote monitoring,	ITS services such as navigation assistance, remote monitoring, 177	
preventive maintenance, and traffic control.	preventive maintenance, and traffic control ⁷⁷ .	
Page 62, Line 8-11	Page 55, Line 18-21	参考文献を明示
All these services are primarily directed towards the key requirements of safety of the occupants of the vehicle. ITS safety	All these services are primarily directed towards the key requirements of safety of the occupants of the vehicle. ITS safety	したため、訂正
technologies are the main focus of the chapter for at least following	technologies are the main focus of the chapter for at least	を認める。
reasons:	following reasons ⁷⁸ :	
Page 62, Line 24 - Page 63, Line 5	Page 56, Line 8-9	冗長な表現をな
ITS can shift helping the paradigm from helping occupants survive a	ITS aimed at not only assisting passengers survive a crash but also	くした修正のた
crash to helping the driver avoid the crash in the first place. Pre-crash	to aiding the driver avoid the crash itself. Crash avoidance	め、訂正を認め
safety systems can help drivers avoid hazardous mistakes by	technologies can be classified as	る。
minimizing distraction and providing warnings or control in		<u> </u>
imminent crash situations. Making driving safer requires pre-crash		
safety systems with electronic devices whose reflexes are quicker		
than people's and which can compensate for at least some driver		
errors. The advantage of these systems is that they can warn the		

driver of potential dangers. Crash avoidance systems can be divided		
into different categories: Page 63, Line 10 - Page 64, Line 7 In-vehicle safety technologies are on-board systems which can be classified as follows: -Sensors-based systems Sensors-based systems monitor lane departure and irregular movements of the vehicle. These include sensors that monitor the lane markers on the road, monitor weaving of the vehicle and warn the driver. As the vehicle's position relative to the lane markers is continuously monitored, when the vehicle strays too close to the lane markers, the system exerts a small torque in the opposite direction that the driver can feel through the steering wheel, and continued deviation produces, e.g., an audible warning. -Vision enhancement systems The vehicle-based technologies provide, for a better visibility, an obstacle detecting sensor system for collision avoidance and/or an on-board night vision system: -sensors for the detection of pedestrian/obstacle -night vision systems for visibility enhancement. In-vehicle vision enhancement systems augment the information in the forward field of view and provide this information to the driver. Vision enhancement systems enhance visual input, the most important information that the driver needs in order to understand and manage the road environment. Reduced visibility is an important element accounting for a large part of all traffic collisions. Reduced visibility may be caused by illumination (glare, artificial light, etc.) and weather conditions (setting sun, dust, darkness, rain, sleet, snow, fog, etc.). -Sleepiness detection systems Many people continue to drive even when they are tired and fighting to stay awake. In-vehicle systems such as eye-closure monitors and	Page 56, Line 14-22 In-vehicle safety technologies are on-board systems which can be classified as follows: -Sensors-based systems Sensors-based systems monitor lane departure and irregular movements of the vehicle. -Vision enhancement systems The vehicle-based technologies provide, for a better visibility, an obstacle detecting sensor system for collision avoidance and/or an on-board night vision system: -sensors for the detection of pedestrian/obstacle -night vision systems for visibility enhancement.	冗長な表現をな くした修正のた め、訂正を認め る。
devices that detect steering variance are aimed to address sleepiness. Some of these devices alert drivers when indications of sleepiness		
appear.		
Page 64, Line 9 - Page 65, Line 11 This type of safety systems deals with areas that are beyond the range of vehicle-based systems ^{xiii} by utilizing <i>both</i> ^{xiv} infrastructure-based and vehicle-based systems with wireless communication links between them. The advantage of these systems is that information is	Page 57, Line 1-13 This type of safety systems deals with both ^{xii} road-based and vehicle-based technologies connected by wireless telecommunication. The advantage of these technologies is that data is received from the road (e.g. speed limits, traffic and road	冗長な表現をな くした修正のた め、訂正を認め る。

3.2.1.3 Infrastructure-based technologies, Intelligent Cruise	3.2.1.3 Infrastructure-based technologies	くした修正で、
Page 65, Line 12 - Page 66, Line 10	Page 57 /Line 14-21	<u>。</u> 冗長な表現をな
		め、訂正を認め る。
xiiidefined as telematics systems		なくなったた
Page 64, Footnote	削除	該当する本文が
violating traffic control devices.		
intersections and determine whether they are slowing, turning, or		
Technologies sense the position and motion of other vehicles at		
crash.		
intersection, along with the speed and position of other vehicles in the vicinity and by advising the driver of appropriate actions to avoid		
crashes by monitoring a vehicle's speed and position relative to the		
Intersection crash avoidance technologies warn drivers of potential		
Intersection crash avoidance technologies		
communication between the infrastructure and the vehicle.		
information by detecting incoming vehicles in curves that are outside driver's field of vision. This is achieved through wireless		
One application of crash avoidance technologies is to provide safety		
Forward danger warning technologies		
-monitor pedestrian crossings and improve pedestrian visibility		
crossings; and		
-provide infrastructure specific safety alerts near pedestrian		
-detect crashes		
through infrastructure specific safety alerts to passing vehicles in order to:	-monitor pedestrian crossings and improve pedestrian visibility	
drivers. The infrastructure-based technologies are implemented	crossings; and	
devices and traffic signals to provide driving assistance to vehicle	-provide infrastructure specific safety alerts near pedestrian	
communication devices, other infrastructure informational or warning	-detect crashes	
sensors, processors and warning devices, infrastructure-vehicle	vehicles in order to:	
Infrastructure-based crash avoidance systems use infrastructure	technologies are carried out through road safety alerts to passing	
whether an oncoming vehicle poses the danger of a head-on crash.	technologies to provide driving support drivers. The road-based	
The use of infrastructure-vehicle systems to provide safety information adds the benefit of making it possible to determine	avoidance technologies use road sensors, road-vehicle communication, other road warning and traffic signals	
notify automatically emergency services when a vehicle has crashed.	oncoming vehicle endanger a head-on crash. Road-based crash	
opposite direction, <i>i.e.</i> from vehicle to infrastructure, for example to	The use of road-vehicle technologies enhances anticipation of	
individual vehicles. Information can also be transmitted in the	road, example e.g. to notify emergency services of crash collision.	
	also communicated in the reverse direction, i.e. from vehicle to	

Control technologies	Intelligent cruise control provides support for drivers to be able to	セクションタイ
Intelligent cruise control provides support for drivers in judging	put the vehicle on "cruise" and leave the driving to computers, and	トルもそれに合
driving conditions through combined use of infrastructure and info-	sensors, which would communicate with both other vehicles and	わせて適切に変
communications via wireless communications between the vehicle	road infrastructure. Ultimately, the system will prevent cars from	更されているた
and devices installed alongside infrastructure. Intelligent cruise	straying from their lanes, or colliding with pedestrians or vehicles.	め、訂正を認め
control maintains a vehicle's speed while keeping a safe distance	Safety technologies are able to notify drivers of unsafe conditions,	
from the vehicle ahead. Intelligent cruise control technologies,	recommend actions, and take restricted driving control of vehicles	る。
marketed initially as a comfort technology, have important safety	to avoid crashes. The sensing capabilities will be integrated as	
advantages: the automatic speed reduction capability could lead to	well to vehicles display systems.	
decreasing crash risk or crash severity. They enable the pre-set cruise		
speed of a vehicle to be automatically reduced in order to maintain a		
minimum time or distance headway to the preceding vehicle.		
Intelligent cruise control technologies can also include both forward		
crash avoidance systems and lane departure systems. They are		
designed to avoid head-on, roadway departure, merging, overtaking,		
turning crashes, and angle crashes. As these intelligent technologies		
optimize speed, distance between vehicles, and will reduce		
considerably driver workload. Adaptive cruise control technologies		
provide various levels of assistance, from warnings in risky situations		
to intervening functions that adjust vehicle speed or position in the		
longitudinal and/or lateral direction. Technologies incorporate		
sensors to detect objects, as well as curve to ensure the vehicle ahead		
is in the same lane. Data from these components are processed and		
linked to the vehicle's engine management and braking systems.		
Drivers will be able to put the vehicle on "cruise" and leave the		
driving to computers, and sensors, communicating with the other		
vehicles and with the infrastructure. Ultimately, the system will		
prevent cars from straying from their lanes, or colliding with		
pedestrians or vehicles. These safety technologies now will warn		
drivers of dangerous situations, recommend actions, and even assume		
partial control of vehicles to avoid crashes. The sensing capabilities		
will be integrated as well to vehicles display systems. Page 66, Line 12-19	业市区	マロンシャー
	削除	冗長な記述の削
Getting to the scene of a crash by emergency response teams as		除と認められる
quickly as possible is critical to saving lives: the shorter the time to		ため、訂正を認
medical treatment, the greater is the likelihood of recovery. To speed		める。
the delivery of medical care, it must be possible for emergency		
medical services to:		
1. receive timely notice of the incident;		
2. be efficiently routed to the scene and to the hospital;		

3. be aware of and able to know the apparent nature and degree of the injuries to tailor the response ^{xv} .		
Page 66, Footnote	削除	該当する本文が
^{xv} This third element is quite important in differentiating between		なくなったた
crash technologies and pot-crash technologies. This difference will be		め、訂正を認め
investigated further in this chapter.		а.
Page 66, Line 20 - Page 67, Line 5	Page 57, Line 23 - Page 58, Line 9	参考文献を明示
Deaths occur when the victim did not arrive at a hospital or at a	Deaths occur when the victim did not get emergency treatment	して冗長な表現
trauma center, within the "Golden Hour ⁵⁵ ", referred by Emergency	at a hospital or at a trauma center, within the "Golden Hour ⁷⁹ ",	を削除したた
Medical Services (EMS) professionals to the first 60 minutes of care	referred by Emergency Medical Services (EMS) professionals to	め、訂正を認め
after a multiple trauma injury. The Golden Hour concept consists of	the "first 60 minutes of care" for a multiple trauma injury	る。
the following time frames:(1) Time between crash occurrence and EMS Notification, also called	emergency treatment. The Golden Hour concept consists of the	- 0
the "Golden 10 minutes" ⁵⁶	following time frames (www.nhtsa.dot.gov ⁸⁰ , www.comcare.org ⁸¹):	
(2) Travel time to the crash scene by EMS,	(1) Time between crash and notification, also called the "Golden	
(3) On-scene EMS rescue time,	10 minutes " ⁸²	
(4) Transport time to a hospital or trauma center,	(2) Travel time to the crash scene,	
(5) Emergency department resuscitation time.	(3) On-scene rescue time,	
Time critical injuries are the polytrauma, brain trauma and internal	(4) Transport time to a hospital or trauma center,	
trauma injuries:	(5) Emergency department resuscitation time.	
Trauma is a time-dependent injury. "The Golden Hour" of trauma	"The Golden Hour" is a time dependency concept as polytrauma,	
care is a concept that emphasizes on time dependency.	brain trauma and internal trauma injuries are time-related injuries.	
Page 67, Line 7 - Page 68, Line 2	削除	冗長な記述の削
Polytrauma injuries		除と認められる
As stated by R.D. Stewart ⁵⁷ , in polytrauma, crash victims suffering		ため、訂正を認
multiple injuries, the first hour of care is crucial: the patient must		める。
come under restorative care during that first hour". Thus, the shorter		
the time period in which the possible occurrence of a severe crash		
induced multiple traumas can be recognized, and the rapidity in		
which the correct EMS advanced life support team is dispatched, is likely to make the difference between a permanently disabling, or		
fatal brain injury, and a recoverable normal life. This type of care can		
best be administered in a suitable facility such as an emergency room		
or, even better, a dedicated trauma center. Thus, transport of the		
victim to such facility needs to be accomplished within this time		
frame.		
Brain trauma injuries		
The most disabling injury that produces the greatest degree of long-		
term morbidity and cost is the post-traumatic brain injury. For the US		

Department of Transportation, "All neurological damage does not occur at the moment of impact (primary injury), but rather evolves over the ensuing minutes, hours, and days. This secondary brain injury can result in increased mortality and more disabling injuries ⁵⁸ ." Internal trauma injuries		
As the use of seat belts increased and more people are protected by air bags, injury patterns are changing and injuries became more		
difficult to recognize. Previously external injuries were an obvious		
indicator of crash severity and of the potential presence of internal injuries. However, the growing absence of external injuries among		
people protected by air bags and/or belts are now found to be		
misleading emergency medical care providers into missing internal		
injuries, sometimes with fatal consequences.		
Page 68, Line 4-8	削除	冗長な記述の削
Getting emergency response teams as quickly as possible to the scene of a crash or other injury-producing incident is critical not only to		除と認められる
saving lives but most importantly minimizing the consequences of		ため、訂正を認
injuries. To achieve this timely medical care, EMS must receive		める。
timely notice of the crash including its precise location and		
information for quickest routings to the scene (and to the hospital).		
Page 68, Line 9-11	Page 58, Line 11-12	内容の明確化の
By reducing the time between the occurrence of a crash and notification to an emergency responses center, crash notification	By decreasing the time period between crash and notification to medical center, crash notification systems provide assistance to	修正のため、訂
systems can help emergency responders get to the scene.	emergency team to get to site.	正を認める。
Page 68, Line 11 - Page 69, Line 3		冗長な記述の削
In many fatal crashes, the fatality occurs because of delay between		除と認められる
the time the crash occurred and the time a call is placed (which in		ため、訂正を認
turn delays the arrival of medical treatment).		める。
Crash Notification Systems (CNS) automatically transmits voice and data to an emergency response center when the driver presses a		
button, or when triggered by the scene board safety equipment (such		
as an airbag or emergency tensioning safety belt). The Crash		
Notification System immediately opens a voice connection between		
the driver and the operator in the Crash Notification Systems call		
center. In-vehicle wireless voice connection to the vehicle's		
passengers enables calls. Crash victims; if able to speak, can immediately inform dispatchers about the number of victims and any		
apparent injuries sustained, giving emergency responders firsthand		
information about the crash prior to arriving at the scene. After		
conferring with the passengers, the operator can then notify		

emergency responders about the incident, the apparent condition of the passengers, and the exact location of the crash. It will be enabling them to dispatch suitable resources to administer the appropriate level of care. Immediate access to real-time information enables EMS to react more quickly to an emergency situation. First, emergency responders are automatically notified of a crash, whether or not the victim is able to call for help. Second, they avoid inadequate location information. All too often in emergency situations, public safety dispatchers receive wireless calls alerting them to an emergency, but the caller often fails to provide accurate location information due to unfamiliarity with the area or to distraction caused by the crash's commotion.		
 Page 69, Line 11-15 Post-crash notification systems take the safety benefits of the crash notification systems to the next level by providing emergency responders with data that indicates the severity of the crash. In the event of a crash, an installed post-crash notification systems device automatically transmits, in real-time, crash data retrieved from invehicle sensors. Page 69, Line 17 - Page 70, Line 11 	削除 Page 58, Line 21 - Page 59, Line 4	 冗長な記述の削 除と認められる ため、訂正を認 める。 冗長な表現をな
 In principle, emergency responders want as much crash data as possible about the severity of the crash. This data will allow a prediction of the severity of the injuries sustained and could make a more appropriate response, not just a faster one. If EMS can estimate the seriousness of the crash, number of people involved, and assess their injuries, it can make better decisions. PCNS provides metrics that can help critical decisions such as: The appropriate EMS unit required, basic or advanced life support Crash data helps emergency responders dispatch the right care such as advanced life support if the data predict severe injury. The mobilization of specialized professionals PCNS data will let emergency medical technicians and hospital staff anticipate and prepare treatment for a victim, on site and in the hospital, immediately after a crash. EMS can assemble the appropriate trauma surgical team while the patient is in route, rather than waiting until the patient arrives. 	 PCNS provides metrics help critical decisions such as: The appropriate EMS unit required, basic or advanced If the crash data predict severe injury, it will help emergency services to send the appropriate advanced life care support. The mobilization of specialized professionals PCNS data will let emergency staff in hospitals prepare appropriate course of action for injured, on crash site and in hospital. The right medical facility, closest hospital or regional trauma center. It helps doctors determine what kind of treatment may be needed, and which appropriate medical team. 	んしなる くした修正のた め、訂正を認め る。

The crash data could help doctors determine what kind of treatment may be needed, and enable them to ready an appropriate medical team. At a trauma center, the trauma teams will be able to better prepare to deliver optimal care for seriously injured erash victims which includes timely and accurate diagnoses, intensive critical care facilities and staff, readily available trauma teams with surgcons specializing in brain and spinal cord injuries, internal organ injuries, and orthopedic injuries. Page 70, Line 12- Page 72, Line 6 Sensors technologies The post-crash notification systems combine information from vehicle crash sensors and local positioning technology, and transmit it to EMS via wireless technologies. The engineering issue is connecting that data source to the communications capability in the car. The post-crash notification systems us a series of strategically located crash sensors that collectively calculate accident's severity and analysis, captures, and relays data with a range of critical technical information. The system discerns between front, side and rear impacts and a broad range of data including near and complete air bag deployment, number of impacts, severity calculations and rollovers. Sensors are connected to vehicle networking architecture. A sensing module receives a full perspective of the crash from the crash sensors via the vehicle's electronic architecture. Sensors measure the number, magnitude, and direction of impact forces. Sensor's software technologies Software collects crash sensor measurements of accelerations, direction of crash forces, and crash configuration rating of crash serverity. The software would: 1. measure metrics of the forces in all three dimensions during the crash event to know the magnitude of the crash impact. This determines the change in the vchicle's vclocity upon impact changes throughout entire crash sequence. For example, it would be helpful to know whether a car has a single impact on thas several impacts. 2. measure principal direction of f			
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serious and fatal crashes do not involve front end collisions and	 Sensors technologies The post-crash notification systems combine information from vehicle crash sensors and local positioning technology, and transmit it to EMS via wireless technologies. The engineering issue is connecting that data source to the communications capability in the car. The post-crash notification systems use a series of strategically located crash sensors that collectively calculate accident's severity and analysis, captures, and relays data with a range of critical technical information. The system discerns between front, side and rear impacts and a broad range of data including near and complete air bag deployment, number of impacts, severity calculations and rollovers. Sensors are connected to vehicle networking architecture. A sensing module receives a full perspective of the crash from the crash sensors via the vehicle's electronic architecture. Sensors measure the number, magnitude, and direction of impact forces. Sensor's software technologies Software collects crash sensor measurements of accelerations, direction of crash forces, and crash configuration rating of crash severity. The software would: 1. measure metrics of the forces in all three dimensions during the crash event to know the magnitude of the crash impact. This determines the change in the vehicle's velocity upon impact changes throughout entire crash sequence. For example, it would be helpful to know whether a car has a single impact or has several impacts. 2. measure principal direction of force (frontal, sides, and rear). Probability of injury to the driver and passenger(s) varies greatly with the direction of force impacting a vehicle. A significant number of 		除と認められる ため、訂正を認

during a crash is an additional indicator of the severity of injuries. 4 assess bet use. Transmitted information would indicate whether the driver was wearing a seat belt at the time of a crash. 5. report whether additional seats in the car are occupied, and whether the occupants of those seats are belted, would have the added benefit of notifying emergency personnel. The number of victims is particularly inportant if no one in the car can speak. 6. add sensors to provide data such as the number of victims is particularly inportant if no one in the car can speak. 6. add sensors to provide data such as the number, size and seating positions of occupants, air baget ine of deployment, level of air bag deployment, and deployment of seat belt emergency tensioning retractors, seat belt forces, door openings, presence or absence of fire, pre-crash speed, and braking deceleration. Successful and proper responses to a crash will be based on complex injury prediction algorithm which will estimate the severity of the crash. Enriched crash notification systems. Advantage of the post-crash notification systems as mentioned above, the data emitted by the post-crash notification systems giver esponders further reliming to respond and to administer the most appropriate and effective medical care. This is far more valuable than just localized indication that simply denotes that a crash occurred as in the crash notification systems. The safety value is very substrainal for vehicles that produce car crashes data. The post-crash notification systems will allow the prediction of the probability of severe injury, and the probabilities of specific nights. It would allow moving from simple knowledge of a crash, to a clear picture in real time of the severity of the crash. By contancing the cash information that emergency and medical learns receive, the appropriate type of response assistance will be more efficient. Page 72, Line 7-16 3.25 Conclusion Page 72, Line 7-16 3.25 Conclusion b th	3. estimate whether and how many times a vehicle has rolled over	
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Post-crash notification systems are the most advanced in-vehicle		し の つ 。
	safety and security service. It responds to customer concerns for	

enhanced vehicle safety and is supported by leading experts in the emergency and medical fields. Indeed, post-crash notification systems have broken new ground in the field of emergency and medical services through its ability to provide critical accident information and to help reduce the time between when a crash occurs and when comprehensive care is administered. Page 72, Line 23 1 Navigation Systems	Page Line 11 1 Navigation System	綴り修正のた め、訂正を認め る。
 Page 73, Line 12 - Page 74, Line 16 3.3.1.1 Driving safety technologies (referred in Japan as ITS development area 3) As ITS plan in Japan set the national safety goal for 2025 as "a 50% reduction of traffic accident related deaths⁵⁹", Japan launched three in-vehicle sensor-based projects aimed at pre-crash safety measures to prevent accidents, as follows: 1) Smartway Project, also called Advanced Cruise-Assist Highway Systems (AHS) Project⁶⁰, is an infrastructure-based concept, which provides support for drivers in judging driving conditions through combined use of road infrastructure and telecommunications systems. AHS can help the driver to avoid obstacles ahead of the vehicle by controlling the vehicle's cruising via mobile communications between the vehicle and devices installed alongside roadways. In addition, the system can detect and report road traffic accidents and disasters automatically. AHS development stage is conceptualized into three phases: AHS-<i>i</i> (Information): the system partially supports collection of information AHS-<i>a</i> (Advanced cruise): the system performs a full information collection and driving operations, and assumes some responsibility for safe driving systems. ASHS-<i>a</i> (Advanced Safety Vehicle (ASV) Project⁶¹ (or Smartcar/Smart Vehicle Project) aims at improved safety realized through in-vehicle sensor technologies. Research and development related to this project includes the following six major safety oriented technologies: i) preventive safety technologies, ii) accident avoidance technologies, iii) fully automatic steering technologies, iv) 	 Page 60, Line 1-8 3.3.1.1 Driving safety technologies (referred in Japan as ITS development area 3) As ITS plan in Japan set 2025 as "a 50% reduction of traffic accident related deaths⁸³", Japan launched three in-vehicle sensorbased projects aimed at pre-crash safety measures to prevent accidents, as follows: Smartway Project, also called Advanced Cruise-Assist Highway Systems (AHS) Project⁸⁴ ASV-Advanced Safety Vehicle (ASV) Project⁸⁵ (or Smartcar/Smart Vehicle Project) aims at improved safety realized through in-vehicle sensor technologies. Smart Cruise System Project⁸⁶ aims at allowing drivers to put the car on "cruise". 	冗長な表現をな くした修正のた め、訂正を認め る。

 technologies for improved safety in collisions, v) technologies for preventing expansion of damage and havoc, and vi) fundamental vehicle technologies. 3) Smart Cruise System Project⁶² aims at allowing drivers to put the car on "cruise". Examples of Smart Cruise System applications are as follows: support for prevention of crashes with forward obstacles, to detect other vehicles and objects in the headway and to notify the vehicle. support for prevention of turning crashes, to inform a vehicle of intersections where turnings are possible and to detect oncoming other vehicles and to notify the vehicle. support for prevention of lane departure, to receive lateral direction information from lane markers installed in the 		
 Infrastructure. Page 74, Line 24-27 "Pedestrian ITS" refers mainly to the pedestrian versions of AHS. This program intends to apply AHS collision technologies developed for vehicle-to-vehicle (V2V), to vehicle-to-pedestrians, to avoid pedestrian/vehicle collisions (or at least to reduce severity to enhance overall pedestrian safety). 	Page 60, Line 16-19 "Pedestrian ITS" refers mainly to the pedestrian AHS, to apply AHS collision technologies developed for vehicle-to-vehicle (V2V), to vehicle-to-pedestrians, to avoid pedestrian/vehicle collisions (or at least to reduce severity to enhance overall pedestrian safety).	冗長な表現をな くした修正のた め、訂正を認め る。
Page 74, Line 28 - Page 75 Line 1 Pedestrian ITS mainly consists of in-vehicle sensors to control the walking and transport environments to increase drivers awareness of the presence of pedestrians.	Page 60, Line 19-21 Pedestrian ITS mainly consists of in-vehicle sensors to control the walking and transport environments to increase driver awareness of the presence of pedestrians.	綴り修正のた め、訂正を認め る。
Page 75, Line 27 - Page 76, Line 8 Helpnet ⁶³ is a crash notification system developed in Japan intended to reduce collision notification delay. In many crash incidents, the fatality increases due to delay between the time of the collision and the time of an arrival of emergency medical services (EMS) crew at the site of the collision. The shortening of this delay can dramatically improve treatment. Helpnet, using mobile communications networks, reduces the delay in collision notification and response time, especially in cases where the driver and passengers become unconscious. When an airbag is deployed, a mobile voice channel opens automatically toy notify operators at a Helpnet call center that a collision has taken place. Helpnet sends the location information of the accident by the use of the location information, transmitted to police and/or an ambulance service center, which can dispatch an ambulance quickly to the site of the accident.	Page 61, Line 19-27 Helpnet ⁸⁷ is a crash notification system developed in Japan intended to reduce collision notification delay. In many crash incidents, the fatality increases due to delay between the collision and the arrival of emergency medical services (EMS) crew at the site of the collision. The shortening of this delay can dramatically improve treatment. Helpnet, using mobile communications networks, reduces the delay in collision notification and response. When an airbag is deployed, it notifies operators at Helpnet that a collision took place. Helpnet sends accident location information by the use of the location-based data, transmitted to police and/or an ambulance service center, which can dispatch an ambulance quickly to the site of the accident.	冗長な表現をな くした修正のた め、訂正を認め る。

Chap IV Partnerships

TTE前	訂正後	訂正理由と内 容・訂正を認
Page 77, Line 6-7		めた理由 冗長な記述の
As an example, technological approach can help to prevent crashes		削除と認めら
and reduce the severity of crashes that occur.		前床と認めら れるため、訂
Dece 77 Line 7.0	Dere (2. Line (.)	正を認める。
Page 77, Line 7-9 ITS technologies are helping to shift the safety focus from	Page 63, Line 6-8 ITS technologies are helping "to shift the safety focus from	参考文献を示
minimizing the consequences of crashes to the use of technology to	minimizing the consequences of crashes to the use of technology to	し、引用符を
make crashes less severe and to prevent them.	make crashes less severe and to prevent them" ⁸⁸ .	挿入して引用
make erashes less severe and to prevent them.	make crushes less severe and to prevent them .	箇所を明確化
		したため、訂
		正を認める。
Page 77, Line 15-22	Page 63, Line 16-20	冗長な表現を
The greatest obstacle to implementing ITS is not technological but	The greatest obstacle to implementing ITS is not technological but	なくした修正
institutional set of relationships components, knowing that resources	institutional. ITS by essence involves engagements taken by	のため、訂正
to implement ITS are often aimed at the technology.	different stakeholders. Therefore, ITS will require the integration of	を認める。
ITS by its nature, involves actions taken by a number of different	complementary parts, coordinated actions among stakeholders and a	
stakeholders. Therefore, enhancing the enabling impact of ITS will require the interplay of complementary components, coordinated	comprehensive policy to benefit all from proposed synergies. Implementation of ITS requires a new partnering among the key	
action among diverse stakeholders and an inclusive policy to benefit	players of transportation value chain: vehicles, infrastructure and	
from synergies. Implementation of ITS requires a new set of	communication networks providers.	
relationships among the key components of transportation: vehicles,		
infrastructure and communication networks providers.		
Page 77, Line 23 - Page 78 /Line 12	Page 63, Line 21 - Page 64, Line 8	冗長な表現を
The institutional approach is based on partnerships: there are a large	The institutional approach is based on partnerships: partners can	なくした修正
number of different ways partners can work together to integrate	work together to integrate telecommunication with transportation	のため、訂正
telecommunication with transportation such as Public-Private	such as Public-Private Partnership (PPP), Government-Industry-	を認める。
Partnership (PPP), Government-Industry-Academia partnership	Academia partnership defined as National Innovation System (NIS)	
defined as National Innovation System (NIS) and others. Each of	and others. Each of these partnering process may be considered of as	
these different ways of partnering may be thought of as a partnership	a partnership model – a specific way of interacting among different	
model – a particular way of interacting among different partners. The	partners. The success of ITS is correlated to the partnership of	
success of ITS is correlated to the partnership of multiple stakeholders in the design of policies and in their implementation	multiple stakeholders in the design of policies and in their implementation where each partner has specific responsibilities.	
where each partner has specific roles and responsibilities.	Partnerships sum up both capabilities and resources to generate win-	
Partnerships are required to aggregate the capabilities and resources	win circumstances for these partners.	
to create win-win situations for the various partners involved.	A partnership's taskforce aligns goals, incentives and responsibilities	

A partnership's taskforce thus should work to align the goals,	of the involved partners. The successful design and implementation	
incentives, roles and responsibilities of diverse partners. The	of a policy focused on ITS requires the formation of nation-wide	
successful design and implementation of a policy focused on ITS requires the formation of nation-wide coordination involving all	coordination involving all partners.	
partners.		
Page 78, Line 14-24	Page 64, Line 10-18	マロシキヨナ
For Nelson ⁶⁴ , the rationale of the developmental state is to implement	For Nelson ⁸⁹ , the developmental state implement industrial policies,	冗長な表現を
selective industrial policies, accompanied by public and related	accompanied by public sector initiatives in carrying out industrial	なくした修正
government initiatives in carrying out strategic investment.	investment. Chang ⁹⁰ states that the developmental state is key in	のため、訂正
Chang ⁶⁵ states that the developmental state is key in coordinating	coordinating industrial investment and in providing a developmental	を認める。
industrial investment and in providing a developmental vision	mission in support of the private sector by managing diverse interest	
through institution-building in support of private sector and	groups. For White and Wade ⁹¹ , the developmental state is considered	
managing or resolving conflicts among interest groups.	as a traditional agent for economic change, outlined by the thought	
For White and Wade ⁶⁶ , the developmental state is considered as a	of "developmentalism" as a national project for industrialization.	
historical animator for economic change, framed by the ideology of	National development strategies have its place in the fundamentals	
"developmentalism" as a national project for industrialization. An	of the developmental state as well as the National Innovation	
emphasis on the national specificity of development strategies	Systems (NIS) theories.	
belongs to the theoretical foundations of both the theory of the		
developmental state and the National Innovation Systems (NIS)		
approach.		
Page 78, Line 27 - Page 79, Line 5	Page 64, Line 21-26	冗長な表現を
Page 78, Line 27 - Page 79, Line 5 For Odagiri and Goto ⁶⁷ , the technological frontier implies no more	For Odagiri and Goto ⁹² , the technological frontier implies no more	冗長な表現を なくした修正
Page 78, Line 27 - Page 79, Line 5 For Odagiri and Goto ⁶⁷ , the technological frontier implies no more imitation but entrepreneurial activities, as new and uncertain	For Odagiri and Goto ⁹² , the technological frontier implies no more imitation but entrepreneurial activities beyond it, as new and risky	なくした修正
Page 78, Line 27 - Page 79, Line 5 For Odagiri and Goto ⁶⁷ , the technological frontier implies no more imitation but entrepreneurial activities, as new and uncertain economic areas are explored. Lall ⁶⁸ goes further by stating that in	For Odagiri and Goto ⁹² , the technological frontier implies no more imitation but entrepreneurial activities beyond it, as new and risky business areas are considered. Lall ⁹³ goes further by stating that in	なくした修正 のため、訂正
Page 78, Line 27 - Page 79, Line 5 For Odagiri and Goto ⁶⁷ , the technological frontier implies no more imitation but entrepreneurial activities, as new and uncertain economic areas are explored. Lall ⁶⁸ goes further by stating that in approaching the technological frontier, the articulation, intensity and	For Odagiri and Goto ⁹² , the technological frontier implies no more imitation but entrepreneurial activities beyond it, as new and risky business areas are considered. Lall ⁹³ goes further by stating that in approaching the technological frontier, the entrepreneurial effort	なくした修正
Page 78, Line 27 - Page 79, Line 5 For Odagiri and Goto ⁶⁷ , the technological frontier implies no more imitation but entrepreneurial activities, as new and uncertain economic areas are explored. Lall ⁶⁸ goes further by stating that in approaching the technological frontier, the articulation, intensity and content of entrepreneurial effort become decisive, knowledge- and	For Odagiri and Goto ⁹² , the technological frontier implies no more imitation but entrepreneurial activities beyond it, as new and risky business areas are considered. Lall ⁹³ goes further by stating that in approaching the technological frontier, the entrepreneurial effort become significant, knowledge- and science-demanding, building on	なくした修正 のため、訂正
Page 78, Line 27 - Page 79, Line 5 For Odagiri and Goto ⁶⁷ , the technological frontier implies no more imitation but entrepreneurial activities, as new and uncertain economic areas are explored. Lall ⁶⁸ goes further by stating that in approaching the technological frontier, the articulation, intensity and content of entrepreneurial effort become decisive, knowledge- and science-intensive, building on established. capabilities. The state has	For Odagiri and Goto ⁹² , the technological frontier implies no more imitation but entrepreneurial activities beyond it, as new and risky business areas are considered. Lall ⁹³ goes further by stating that in approaching the technological frontier, the entrepreneurial effort become significant, knowledge- and science-demanding, building on innovative competencies, with the government has a foremost part to	なくした修正 のため、訂正
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state ⁷⁰ . Wade ⁷¹ sees national systems of innovation driven by government as the initiator of entrepreneurship. Schumpeter ⁷² emphasized that innovation resulted from entrepreneurial activities could be incited by an appropriate institutional environment. The latter would include government involvement in the promotion of entrepreneurial behavior among economic agents: "this behavior may be molded also by the specific action of other social organs, governments for instance". For Schumpeter ⁷³ , innovation needs to be forced upon the majority of economic agents, as progress in general is basically a result of force and confrontation. Entrepreneurial leadership by nature breaks the inertia of traditions and routines, by gaining the acceptance of consumers. For Schumpeter ⁷⁴ , leadership constitutes the decisive component of entrepreneurship.	entrepreneurship. Schumpeter ⁹⁷ emphasized that innovation resulted from entrepreneurial activities through institutional environment which would include government in promoting of entrepreneurial activities among economic players. For Schumpeter ⁹⁸ , innovation is required from these economic players, as innovation process in general is "basically a result of force and confrontation". Entrepreneurial leadership by nature breaks the inertia of traditions and routines, by gaining the acceptance of consumers. For Schumpeter ⁹⁹ , leadership constitutes the decisive component of entrepreneurship.	
Page 79, Line 26-29 Schumpeter ⁷⁵ 's perspective on government agencies as entrepreneurial agents might be illustrated as an articulation of the entrepreneurial function by organs of the state which would point to an entrepreneurial intervention in certain industries by setting up enterprises that could proceed with the introduction of innovations.	Page 65, Line 15-18 Schumpeter ¹⁰⁰ 's perspective on government as entrepreneurial agent might be as well expression of the entrepreneurial function by organs of the state which involves an entrepreneurial intervention in certain existing or new industries by setting up businesses that could introduce innovations.	冗長な表現を なくした修正 のため、訂正 を認める。
 Page 80, Line 2-8 For Schumpeter, the institutional dynamism of the entrepreneurial state reflects the evolution of state. For Weiss⁷⁶, the mode of governance implies a 'catalytic state' cooperating with the private sector in order to support technological innovation. For Ebner⁷⁷, when the exercise of governmental entrepreneurship is combined with innovations, it characterizes the rationale of an entrepreneurial state, based on coordination between private and public sector that shape the entrepreneurial efforts in generating and absorbing new technology. 	 Page 65, Line 20-25 For Weiss¹⁰¹, the mode of governance implies a 'catalytic state' cooperating with the private sector in order to support technological innovation. For Ebner¹⁰², public sector entrepreneurial activities are combined with innovations, it illustrates the validation of an entrepreneurial state, based on synchronization between private and public sector that outline the entrepreneurial activities in generating and absorbing new technologies¹⁰³. 	参考文献を加 えて冗長な表 現をなくした 修正のため、 訂正を認め る。
Page 80, Line 9-14 For opportunities to be realized, creation of public-private partnership is needed: common objectives, program plans and joint long-term commitments need to be developed. Public-private partnerships bring the strengths of each sector together for the benefit of both: each sector does the part of the work it is best at. There are shared interests between government and industry that can only be achieved if there is appropriate partnership.	Page 65, Line 26-27 Public-Private Partnerships (PPP) take along the assets of each sector together for the advantage of both: each ensures the work it is best at.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 80, Line 17-18The contracts are featured by public control over private contractee, while privatization is defined as the private control by the market.	Page 66, Line 3-4 Contractual arrangements are highlighted by public sector control over private contractee,	冗長な表現を なくした修正

Page 81, Line 5-14 In contractual arrangements, a public agency contracts an outside private party, contractor, for a fee in exchange for its services. The public sector retains control: the public agency, as a purchaser of privately owned resources, has authority to control and monitor its private contractee as well as to direct them to comply with legal requirements and policy directions. The advantages of the traditional contracts are that roles and responsibilities are defined by legally bound relationships. The public sector is not as flexible in agreements because of legal and regulatory requirements. In contrast, i.e. if businesses once enter the market, they may leave it on their own judgment on profitability rather than on accountability to the public as it happens in the public sphere.	Page 67, Line 3-7 In contracts, a public sector agent contracts a private sector agent, contractor, for a charge in exchange of pretested services. The public sector retains control: the public agent, as purchaser, has control its private agent contractee as well as enforce legal and policy requirements. The advantages of the contracts are that responsibilities are legally defined.	のため、訂正 を認める。 冗長な表現を なくした修正 のため、訂正 を認める。
Page 82, Line 3-19 For IMF ⁷⁸ , PPPs (in infrastructure) refer to arrangements where the private sector supplies infrastructure assets and services that traditionally have been provided by the government. In addition to private execution and financing of public investment, there is service provision, as well as investment, by the private sector. Significant risk is transferred from the government to the private sector. Public/private partnerships in transport refer to non-traditional relationships between the public and the private sectors, where "non-traditional" means contractor-contractee relationships. In partnerships, parties accept shared risks, shared responsibilities, resources sharing and shared benefits. Two sectors put a certain amount of resources (including financial ones). The partnership makes it possible to complete what no one entity could do on its own. In public-private partnership, approaches and strategies may be (re)negotiated depending upon each sector's goals and perspectives. VICS project illustrated the Japanese PPP model related to ITS. In ITS, the public sector relies on private sector depends on the public sector in the policies and funds that will help their investment in projects or their efforts to expand a market share.	Page 67, Line 10-20 Public/private partnerships in transport refer to institutional collaboration between public and private sectors, as contractor- contractee collaboration. In partnerships, parties accept shared risks, shared responsibilities, resources sharing and shared benefits. Two sectors put a certain amount of resources (including financial ones). The partnership aimed at achieving what no one party could do by itself. In public-private partnership, collaborations are (re)negotiated depending upon each sector's interests. VICS project illustrated the Japanese PPP model related to ITS. In ITS, the public sector expects from the private sector expertise and experience as well as financial/technological resources. The private sector on the other hand requests public policies and public financial support which would increase participation in public projects or create business opportunities.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 84, Line 2-6 Public agencies might enter in a PPP in order to develop a project which will come back under the control of the public sector.	Page 69, Line 1-8 Public agencies might enter in a PPP in order to develop a project which will come back under the control of the public sector. For the	参考文献を示 し、引用符を

Traditional strategies for the deployment of transportation infrastructure have often taken this trend. One common model for public-private cooperation in infrastructure development is called BOT (Build-Operate-Transfer). In this model, private companies invest in the construction of infrastructure and, with public sector support, own and operate the infrastructure and collect tolls or usage fees. Once the return of investment is made, the facility is transferred to the public sector for continuing operation.	World Bank (www.worldbank.org) "traditional strategies for the deployment of transportation infrastructure have often taken this trend. One common model for public-private cooperation in infrastructure development is called BOT (Build-Operate-Transfer). In this model, private companies invest in the construction of infrastructure and, with public sector support, own and operate the infrastructure and collect tolls or usage fees. Once the return of investment is made, the facility is transferred to the public sector for continuing operation" ¹⁰⁵ .	挿入して引用 箇所を明確化 したため、訂 正を認める。
Page 85, Line 2-8 For the U.S. Department of Transport ⁸⁰ (DOT), a public-private partnership refers to "an arrangement of roles and relationships in which two or more public and private entities coordinate/combine complementary resources to achieve their separate objectives through joint pursuit of one or more common objectives." Much of what the public sector does in relation to ITS technologies i.e. in Japan can have a direct and sometimes profound effect on industry. From this standpoint, partnerships are essential to the long-term success of ITS technological deployment.	Page 70, Line 2-3 For the U.S. Department of Transport ¹⁰⁶ (DOT), PPP is an arrangement in which public and private organizations coordinate/combine assets to reach own objectives.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 85, Line 10-12 There are a set of reasons why public-private partnerships would be the main organizational arrangement in carrying out ITS projects, which will be illustrated by a VICS study case in next chapter, such as follows:	Page 70, Line 5-7 There are a set of reasons why public-private sectors partnerships would be the foremost structural arrangement in running ITS projects, which will be illustrated by a VICS study case in next chapter, such as follows:	明確な表現へ の修正のた め、訂正を認 める。
Page 85, Line 14-26 The private sector is generally better at introducing technological innovation .and reacting swiftly to rapidly changing technology environments. It is said that private sector has further capabilities in marketing new technologies and related products (than does the public sector) by supplementing the lack of resources, expertise, and experience that the public sector would need at carrying out ITS activities. For public sector, it might be economical to enter into a partnership with the private sector The rapid evolution of transportation/telecom related technologies gives the private sector greater flexibility in selecting and incorporating technologies quicker and effectively. It is argued that the private sector has more experiences in developing and marketing new technologies and products than does the public sector. It is expected that the private sector could supplement the lack of resources, expertise, and experience that the public sector would	Page 70, Line 9-17 Not only the private sector, in rapidly changing technology environments, is most appropriate at introducing technological innovation but has better capabilities in marketing these technological innovation and related products/services by enhancing the financial/technological resources and expertise that the public sector could requisite at carrying out ITS activities. For public sector, it might be economical to enter into a partnership with the private sector. As each responsibility would be stated in partnership agreements, contracts might be negotiable under changing conditions to facilitate services and products delivery promptly.	冗長な表現を なくした修正 のため、訂正 を認める。

 need at implementation phases. For public sector, it might find it much more cost-effective to enter into a partnership with the private sector. Although it is necessary to define roles and responsibilities through partnership agreements, approaches might be flexible and negotiable under changing circumstances to enable services and products delivery on time under rapid changes in technology. Page 86, Line 2-19 A possible partnership model assumes that the cost of initial infrastructure deployment and initial applications will be supported by the government possibly or/with cost-sharing from a private network services provider contractor in return for access to infrastructure components. The public sector value proposition involves providing the initial communications network in order to obtain the significant future advantages from the private sector that cannot be obtained through infrastructure improvements alone. The industry value proposition involves a commitment to roll out invehicle devises on a given schedule in return for a public sector commitment to supply the infrastructure necessary to support a national market for the range of services that the in-vehicle devices may support that, in turn, justifies the industry investment. Transport infrastructure, which the public sector takes charge of, is set up and maintained by the public sector. P. Products and services related to vehicles are taken care of by the private sector, which actually produces and sells such units. This approach is employed by VICS in Japan^{xvii}. Simply stating, each sector does the part of the work, and the private sector focuses on the vehicle part.	 Page 70, Line 19 - Page 71, Line 3 A possible partnership model assumes public sector bear the cost of infrastructure with initial applications to be supported cost-sharing from the private sector in exchange for infrastructure access. The public sector proposition would deliver the telecommunications network in order to achieve upcoming advantages from the private sector that cannot be obtained through infrastructure improvements alone. The industry proposition would roll out in-vehicle devises in exchange for public sector commitment to national infrastructure and market for in-vehicle services the and devices justifying the industry investment. As transport infrastructure is set up by the public sector, related in-vehicles products and services are produced and sold by the private sector. This approach is employed by VICS in Japan^{xiv}.	冗長な表現をなくした。 のため、訂正を認める。
Page 86, Line 21-25 Conducting research and development is risky for private companies when commercialization is uncertain. For this reason, the public sector should support and coordinate research projects between private firms. The public sector, by creating common research platforms, different companies can develop individual applications using the results of the research and development.	Page 71, Line 5-7 R&D is risky for private companies when commercialization is uncertain. For this reason, the public sector should support and coordinate research projects between private firms.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 86, Line 27 - Page 87, Line 9	Page 71, Line 9-14	冗長な表現を
Usually, industry has limited ability to carry out large partnership	Usually, industry has partial capability, little incentive or interest in	なくした修正
tasks and little incentive or interest in introducing systems that appear	introducing products/services that appear to have no commercial	

to have no commercial demand. On the other hand, capital resources and expertise required are often outside beyond the capacity of the public sector. An emerging industry like ITS may be perceived as costly and risky. Therefore, governments might encourage participation of private businesses to enter the ITS industry, especially in areas where private sector ITS applications can help achieve societal goals such as safety and congestion alleviations ^{xviii} . Some of the risks involved in developing new ITS systems can easily be taken by the private sector. By public-private partnerships, both the public and private sectors can generate benefits specific to their own strengths through risk sharing.	demand. On the other hand, necessary financial capital and technical know-how expertise are often outside the scope of the public sector. Therefore, governments might encourage private sector to move in the ITS industry, particularly when private sector ITS applications can achieve societal objectives such as safety and congestion improvements ^{xv} .	のため、訂正 を認める。
Page 87, Line 11-18 The prevailing economic environment is market competition. Competition imposes on firms to control their costs, to earn revenues in excess of costs, and to respond to threats. Public sector needs to rely on competition wherever possible to achieve the best possible outcome. However, sometimes public sector needs to protect its private partners from competition to ensure economic viability during the incubation and initial growth stages. Indeed, there may be circumstances when the public sector needs to avoid creating conditions of excessive competition for an ITS public-private partnership in the start-up phase.	Page 71, Line 16-19 Public sector needs private sector competition wherever possible to attain the best possible result. However, public sector needs to protect its private associates from competition to ensure business viability through incubation and initial growth for an ITS public-private partnership start-up period.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 87, Line 20-25 Small scale operations can be a major barrier to ITS, because manufacturers and service providers must operate in a range where production costs are high, and might exceed revenues. If public-private partnerships are to succeed, it should achieve economies of scale and operate where costs are sufficiently below revenues that the partnership is likely to earn a profit. Businesses that have strong economies of scale can lower costs.	Page 71, Line 21-22 If public-private partnerships are to succeed, it should realize economies of scale by running low costs necessarily below revenues in order to generate profit.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 88, Line 2-10 The public and private partners through a set of interactions create the services for the private sector principal customer base, which is also the same public sector's base: vehicle drivers and passengers. The private sector is more suitable to respond quickly to new ITS product and service demands, and to tailor products and services to different segments of the market. It is also better to have sales handled by the private sector in order to induce competition. Public sector needs to help accelerate deployment by encouraging and	Page 72, Line 1-7 The public and private partners through a set of interactions create the services for the private sector customer segment, which is also the same public sector's citizen segment: drivers and passengers. The private sector is more apt to adapt swiftly to ITS product/service arising needs, and to fit products/services to different customers segments. Public sector would support effective sale and use of private ITS products and services, offering market incentives and eliminating obstacles that hold back private sector involvement.	冗長な表現を なくした修正 のため、訂正 を認める。

endorsing the sale of ITS products and services, providing market		
incentives and removing barriers that slow down private sector		
involvement.		
Page 88, Line 13-16	Page 72, Line 10-12	冗長な表現を
The private sector could contribute and participate actively in ITS	The private sector could contribute and participate actively in ITS	なくした修正
development and expansion by partnering with public sector in the	development and expansion by partnering with public sector in	のため、訂正
development or delivery of transportation services. Many important	developing ITS services. Essential ITS applications can be suitably	を認める。
ITS applications such as follows can appropriately be implemented	driven by the private sector:	で言うる。
by the private sector:		
Page 88, Line 21 - Page 89, Line 7	Page 72 /Line 17-23	冗長な表現を
The private sector has to be fully convinced that the expected rate of	The following are required to attract private contribution:	なくした修正
return on investment is larger than the opportunity cost and that the	• A public-private ITS partnership with guaranteed revenue for the	のため、訂正
project will earn a profit. The following are conditions necessary to	private sector	を認める。
attract private involvement:	• Value of ITS services based on disruptive technologies exceeding	と記める。
• An economically viable ITS public-private partnership with a	the value offered by other traditional services based on disruptive	
revenue stream for the private sector	technologies	
• Value of ITS services based on disruptive technologies exceeding	Some of the returns-on-investments for the private sector, i.e. car	
the value offered by other traditional services based on disruptive	makers, could be indirect over branding and decreasing customer	
technologies	churn aimed at sustained customer loyalty as well as opportunities	
In short, a private firm is examining where it can earn the best rate of	for new sources of revenues ^{xvi} .	
return on its capital, given the risks involved: it will not invest in ITS		
unless the net earnings are expected to exceed the opportunity cost.		
Nevertheless, some of the returns-on-investments for the private		
sector, i.e. car makers, could be indirect through the ability to		
influence customer brand selection and reduce churn by using		
continuing service to maintain continued customer loyalty as well as		
to develop new sources of income ^{xix} .		
Page 89, Line 10-14	Page 73, Line 2-4	冗長な表現を
The main responsibility of the public sector is to look out for the	Public sector's goal is to provide public good as widely and cheaply	なくした修正
public good to ensure that the transportation system serves	as possible. Public good for ITS can also be defined as an interest in	のため、訂正
effectively. Public sector's goal is to provide public good as widely	pursuing technology within a NIS framework (see next section) and	を認める。
and cheaply as possible. Public good for ITS can also be defined as	applying it to social and economic problems	を認める。
an interest in pursuing technology within a NIS framework (see next		
section) and applying it to social and economic problems		
Page 89, Line 16-19	Page 73, Line 6-8	冗長な表現を
In contrast the objectives of private businesses aim at making profits	In contrast the objectives of private businesses aim at making profits	なくした修正
and charging customers. Therefore, business interests are to expand	and charging customers. Therefore, business interests are to expand	のため、訂正
existing markets and open new ones. In this way, the private sector	existing markets and open new ones.	
might play a major role in developing and delivering ITS services		を認める。
and in providing access to users.		

 Page 89, Line 21 - Page 90, Line 5 The difference might turn into conflict between the public interest, aiming at good while and seeking profit. While the profit motive drives the private sector, profits can be realized in a context that is consistent with the public goal to assure access to services for all. Most private sector organizations recognize both the estimated economic opportunity the societal opportunity regarding ITS. Considering the estimated societal benefits that will be reached achieved through ITS deployment, and if the public sector can help advance public sector objectives for a safer and efficient transport infrastructure. Each purchase of ITS products or services, whether by users, businesses or public agencies, brings value to society, with benefits extending beyond the actual purchaser. Page 90, Line 7-18 Attract private sector should contribute and participate actively in ITS development and expansion by partnering with public sector in the development or delivery of transportation services. The public sector needs to make participation in building the ITS infrastructure, including the provision of appropriate technologies and related services, attractive to the private sector. Reduce public sector regulatory constraints and processes that pose unnecessary barriers After identifying potential markets for private sector on barriers to participation – and then remove them. 	 Page 73, Line 10-15 As public sector focus on the public interest, private sector aimed at profit Still, profits can still be achieved with the public access to services for all. Societal benefits can be pursued through ITS utilization while the private sector achievement would support public sector goals for safer and efficient transport infrastructure. Each ITS products/services purchase adds value, benefiting the society, beyond the individual buyer¹⁰⁷. Page 73, Line 17-19 Public incentives attract "private sector capital and technology into both ITS products and services, and would effectively reduce public sector constraints that pose unnecessary barriers"¹⁰⁸ 	参え現修正 素 て な た で で 正 を 認 め る 。 参 志 、 、 た 、 、 、 、 、 、 、 、 、 、 、 、 、
 Page 91, Line 9-11 Beside the infrastructure dimension of ITS, the automotive industry is also involved in the vehicle dimension of ITS, such as navigation and pre-crash systems. 	 Page 74, Line 10-12 Beside the public road infrastructure aspect of ITS, in the private vehicle aspect of ITS, the automobile industry is active in applications such as traffic navigation and pre-crash systems. 	明確な表現へ の修正のた め、訂正を認 める。
Page 92, Line 13 - Page 93, Line 2 For Metcalfe ⁸³ , NIS is the "set of institutions that (jointly and individually) contribute to the development and diffusion of new technologies. These institutions provide the framework within which governments form and implement policies to influence the innovation process. As such, it is a system of interconnected institutions to create, store, and transfer the knowledge, skills, and artifacts which	Page 76, Line 3-7 For Metcalfe, NIS is the "set of institutions that (jointly and individually) contribute to the development and diffusion of new technologies. These institutions provide the framework within which governments form and implement policies to influence the innovation process ¹¹¹ ". As such, it is a system of interconnected institutions to create, store, and transfer the knowledge, skills, and	参考文献を明 示し、引用符 を挿入して引 用箇所を明確 化した修正の ため、訂正を

define new technologies.	artifacts which define new technologies ¹¹² .	認める。
Page 93, Line 3-5 Another definition for NIS by Niosi, Saviotti, Bellon, and Crow ⁸⁴ is the following: the system of interacting government agencies, private and public firms and universities aiming at the production of science and technology within national borders.	Page 76, Line 8-10 Another definition for NIS by Niosi, Saviotti, Bellon, and Crow ¹¹³ is the following: "the system of interacting government agencies, private and public firms and universities aiming at the production of science and technology within national borders."	引用符を挿入 して引用箇所 を明確化した ため、訂正を 認める。
 Page 93, Line 6-29 For Goto⁸⁵, NIS essentially consists of three sectors: industry, universities and the government with each sector interacting with the others, while at the same time playing its unique role in pursuing research & development (R&D). The objective of industrial R&D is to search for products, and to develop the accompanying processes by which these products can be manufactured. Its scope is, therefore, dictated by the needs of the market, whereas universities are more focused on basic research and on educating scientists and technicians. Government, on the other hand, conducts research related to such missions as national security and advances in medical science. For Goto⁸⁶, university is the key player in the national innovation system. Universities have had an important role in innovation by helping the private sector to introduce advanced technology, and by educating engineers and scientists. In this context, Goto underlines three important roles which universities perform in a national innovation system: First, they educate engineers and researchers and send them to industry and academia. Secondly, universities are responsible for producing the so-called 'seeds' of innovation. Behind the logic of industry utilizing the basic research undertaken at universities lays the idea of the 	 Page 76, Line 11-23 For Goto¹¹⁴, NIS essentially consists of three sectors: industry, universities and the government with each sector interacting with the others, while at the same time playing its unique role in pursuing research & development (R&D). The industrial R&D scope is dictated by the requirements of the market. For Goto¹¹⁵, university is the key player in the national innovation system with a vital role in innovation by aiding the private sector to introduce applications. In this context, Goto underlines three roles which universities carry out in a NIS: <i>First, they educate engineers and researchers for industry and academia</i>. <i>Secondly, universities aimed at being center of innovation within the framework of the linear model of innovation through three stages: basic research, applied research, and development</i>. <i>Thirdly, universities are the repositories of advanced technological knowledge, useful to companies in search of solutions to their technological problems</i>. 	冗長な表現を なくした修正 のため、訂正 を認める。

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innovation system:	technological knowledge, useful to companies in search of	
• First, they educate engineers and researchers and send them to	solutions to their technological problems.	
industry and academia.		
• Secondly, universities are responsible for producing the so-called		
'seeds' of innovation. Behind the logic of industry utilizing the		
basic research undertaken at universities lays the idea of the		
linear model of innovation. By this is meant that innovation is		
realized in three stages: basic research, applied research, and		
development.		
• Third role of universities in the process of innovation is that they		
are the repositories of advanced knowledge, which is of use to		
companies that are in search of solutions to their technological		
problems.		
Page 94, Line 2-3	Page 77, Line 25-26	軽微なエディ
Additionally to PPP's goal related to ITS, building infrastructures	Additionally, to PPP's goal related to ITS, building infrastructures	トリアル修正
such as transport and telecommunications could be aimed at	such as transport and telecommunications could be aimed at	のため、訂正

stimulating technological learning. ⁸⁷	stimulating technological learning. ¹¹⁶	を認める。
Page 94, Line 18-25	Page 77, Line 14-20	冗長な表現を
Every stage of an infrastructure project, from planning and design through construction and operation, involves the application of a wide range of technologies and institutional and management arrangements. Because infrastructure facilities and services are complex physical, organizational, and institutional systems, deep understanding and adequate capabilities are required on the part of engineers, managers, government officials, and others involved in these projects ⁹³ . The concepts of national innovation systems and interactive relationships stress the links between firms, educational and research institutes, and governments.	Every stage of an infrastructure project involves the deployment of an extensive technological, institutional and managerial arrangements. Because infrastructure systems are complex - physical, organizational, and institutional systems- comprehensive understanding and suitable abilities are required on the part of all parties involved in these projects ¹²² The concepts of national innovation systems emphasis the complex relations between Industry, Academia and Government.	なくした修正 のため、訂正 を認める。
 Page 95, Line 2-14 Innovation is not just technological but also applies to public, business and organizational models. One of the important roles of partnership is to foster technological innovation. The partnership between government, industry and academia provides a ground for technological innovation by: conducting research, as directed by public and industry priorities, and disseminate the results; and facilitating the translation of research results into both public policy and business implementation. The public, private, and academic sectors each have their own strengths in doing research related to ITS, which can be mutually reinforced through partnership: The public sector contributes by undertaking the basic parts of ITS research and coordinate joint research efforts by private-academic entities; The role played by the private sector is important in the implementation of ITS, from research and development to commercialization; Academic institutions might assume the responsibility for putting their expertise into full use, if financially supported either by public or private funds, in research and development as well as training of human resources. ITS is a field that requires continuous development of technologies. The public, private, and academic sectors each have their own strengths in doing research, which can be mutually reinforced through cooperation. ITS-related research activities touch many domain: technical (e.g. software, automatics, telecommunications) as	Page 77 /Line 20-21 One of the important roles of partnership is to foster technological innovation. The public, private, and academic sectors each have their own strengths in doing research, which can be mutually reinforced through cooperation ¹²³ . ITS-related research activities touch many areas: technological (e.g. software, automatics, telecommunications) as well as business (market research) and social (benefits research) ¹²⁴ . These researches are crucial for development and successful ITS implementation.	参 考 文 長 な 表 現 を な く し た 修 正 で な め 、 訂 正 を 認 め る。。

well as economical (market studies) and sociological (costs/benefits studies). Researches are indispensable to the development and implementation of ITS.		
Page 97, Line 8-10 Since 1995, date when the Prime Minister decided to coordinate ITS policy, the relevant ministries related to ITS (MLIT/MOT and MOC, MIC/MPT, METI/MITI and NPA) have met within the so-called "Four ^{xx} Ministry Liason Conference".	Page 79, Line 9-11 Since 1995, date when the Prime Minister decided to coordinate ITS policy, the relevant ministries related to ITS (MLIT/MOT and MOC, MIC/MPT, METI/MITI and NPA) have met within the so-called "Four ^{xvii} Ministry Liaison Conference".	綴り修正のた め、訂正を認 める。
Page 97, Line 24-25 2. Highway Industry Development Organisation (HIDO) coordinates, evaluate and researches ITS activities related to the road infrastructure such as ETC.	Page 80, Line 1-2 2. Highway Industry Development Organization (HIDO) coordinates, evaluate and researches ITS activities related to the road infrastructure such as ETC.	綴り修正のた め、訂正を認 める。
Page 98, Line 10-137. National Institute of Information and CommunicationTechnology (NICT), a NIS type organization, supports national ICTpolicies by providing technological advice, cooperation with Industryand Academia, and researches into communication networktechnologies.	Page 80, Line 12-157. National Institute of Information and CommunicationTechnology (NICT), a NIS type organization, supports ICT policieswith technology-related guidance, cooperation with Industry,Academia, and researches into communication networktechnologies.	明確な表現へ の修正のた め、訂正を認 める。
 Page 98, Line 23 that individual private sector can not undertake by themselves and 	 Page 80, Line 25 that individual private sector cannot undertake by themselves and 	綴り修正のた め、訂正を認 める。
 Page 98, Line 26 - Page 99, Line 3 11. Information-technology Promotion Agency (IPA), as NEDO, invests in fields where private companies cannot develop the required technology due to the following reasons: private sector cannot do it alone technology is too premature that no one yet can recognize how to turn it into business multi-disciplinary approach, cooperation and research 	 Page 80, Line 28 - Page 81, Line 2 11. Information-technology Promotion Agency (IPA), as NEDO, invests in fields that individual private sector cannot undertake by themselves: where technology is not yet viable as a business multi-disciplinary approach, cooperation and research 	冗長な表現を なくした修正 のため、訂正 を認める。
Page 99, Line 12-21 As the Prime Minister Office is in charge of laying the foundations for ITS policy development, a separate ITS budget within each ministry is linked to the national ITS policies. Although the research done is based on the government's policy goals, targeted investments that support ITS research are issued through semi-public agencies. For example, METI enforces its ICT R&D budget both directly and through semi-governmental organizations such as NEDO and IPA. At the end of each fiscal year (March), a report is issued on the results. What is highly interesting is the "entrepreneurial state" criteria used	Page 81, Line 10-16 As the Prime Minister Office is in charge of laying the foundations for ITS policy development, a separate ITS budget within each ministry is linked to the national ITS policies. Although the research done is based on the government's policy goals, targeted investments that support ITS research are issued through semi-public agencies. What is highly interesting is the "entrepreneurial state" criteria used by some of the semi-public organizations.	冗長な表現を なくした修正 のため、訂正 を認める。

by some of the semi-public organizations.		
 Page 99, Line 22 - Page 100, Line 3 NEDO finances research into telecommunication that individual private sector cannot undertake by themselves and which related to "high risk" technologies, including commercialization development support. IPA, as NEDO, invests in fields where private companies cannot develop the required technology due to the following reasons: private sector cannot do it alone. technology is too premature that no one yet can recognize how to turn it into business. multi-disciplinary cooperative approach. 	 Page 81, Line 17-24 NEDO finances research into telecommunication that individual private sector cannot undertake by themselves and which related to "high risk" technologies, including commercialization development support. Information-technology Promotion Agency (IPA), as NEDO, invests in fields that individual private sector cannot undertake by themselves: where technology is not yet viable as a business multi-disciplinary approach, cooperation and research 	冗長な表現を なくした修正 のため、訂正 を認める。
 Page 100, Line 8-9 The council has a secretariat consisting of about 100 people from the government, industry and academia. Page 100, Line 12-13 In the FY2008 (April 2008-March 2009), budgets allocation for S&T-related programs/projects have been proceeded. 	Page 82, Line 6-7 In the FY2008 (April 2008-March 2009), allocation of programs/projects budgets for S&T have been proceeded.	 冗長な記述の 削除と認めら れるため、訂 正を認める。 明確な表現への修正のた め、訂正を認める。
 Page 100, Line 15-21 92 new programs/projects whose budgets are over Yen 100 million per program/project and rated them as S (6 excellent), A (33 very good), B (43 good), and C (10 to be reviewed). 174 continuing programs/projects whose budgets are over Yen 1 billion per program/project, and commented whether they are (1) to be accelerated (14 programs/projects); (2) to be promoted (155 programs/projects) and (3) to be decelerated (5 programs/projects). 	 Page 82 /Line 9-11 92 new programs/projects whose budgets are over Yen 100 million per program/project and rated them as S (6 excellent), A (33 very good), B (43 good), and C (10 to be reviewed)¹²⁸. 174 continuing programs/projects whose budgets are over Yen 1 billion per program/project, and commented whether they are (1) to be accelerated (14 programs/projects); (2) to be promoted (155 programs/projects) and (3) to be decelerated (5 programs/projects).¹²⁹ 	参考文献を明 示したため、 訂正を認め る。
Page 100, Line 27 Examples of ICT projects are as follow	Page 82, Line 21 Examples of ICT projects ¹³² are as follow:	参考文献を明 示したため、 訂正を認め る。
 Page 101, Line 6 Technologies of display, storage, ultra high speed device 	 Page 82, Line 28 Technologies of display, storage, ultra-high speed device 	軽微なエディ トリアル修正 のため、訂正 を認める。

 Page 101, Line 20-24 The "e-Japan Priority Policy Program" (2001) positioned placed the private sector as the driving force; the role of government is to create establish an environment where the private sector can employ exert its full capacity potential. It also mentioned the establishment of an environment where the private sector, based market forces, can exert its full potential and make Japan the world's most advanced nation IT nation within five years. 	 Page 83, Line 13-15 The "e-Japan Priority Policy Program" (2001) considered the private sector as the driving force while the public sector has to support the private sector on contributing to make Japan the most advanced ICT country. 	冗長な表現を なくした修正 のため、訂正 を認める。
 Page 102, Line 4-6 System Architecture for ITS in Japan (1999), released by the five governmental bodies concerned with ITS, set goals for public-industry-academia collaboration for each of the ITS R&D areas and their related user services. 	 Page 83, Line 21-23 System Architecture for ITS in Japan (1999), released by the five governmental bodies concerned with ITS, set goals for public-industry-academia partnership for ITS R&D focuses and their related user services. 	明確な表現へ の修正のた め、訂正を認 める。
Page 102, Line 15-16 The proclaimed goal was to establish Japan as an advanced science and technology oriented nation.	Page 84, Line 6-7 The proclaimed goal was to establish Japan as an advanced science and technology oriented nation ¹³⁵ .	参考文献を明 示したため、 訂正を認め る。
Page 102, Line 18-20 The office considered the success of ITS largely depending on how the partnership proceeded among all involved parties.	Page 84, Line 9-10 The office considered the success of ITS depending on partnership among all involved parties.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 102, Line 23 - Page 103, Line 2 It is understood in this NIS context that universities and research institutes, through mainly public funds, conduct basic research and basic technological development from a mid-term governmental perspective, and industry pursuing process innovation and product innovation that anticipates consumer needs. In this connection the strengthening of ties between universities, which are considered the birthplace of technological knowledge, and the industrial sector, which applies and commercializes that technological knowledge is especially seen crucial to bolster Japan's international competitiveness.	Page 84, Line 13-20 For Nippon Keidanren, it is understood in this NIS context that universities and research institutes, through mainly public funds, conduct basic research and basic technological development from a mid-term governmental perspective, and industry pursuing process innovation and product innovation that anticipates consumer needs ¹³⁴ . In this connection the strengthening of ties between universities, which are considered the birthplace of technological knowledge, and the industrial sector, which applies and commercializes that technological knowledge is especially seen crucial to bolster Japan's international competitiveness ¹³⁵ .	参考 文献 を明 が 明 が 明 が 明 が 明 が 明 が に なるよ うに た む た た た あ る よ う に な る よ う に な る よ う に な る よ う に な る よ う に な る よ う に な る よ う に な る よ う に な る よ う に な る よ う に な る よ う に な る よ う に か む に む た た た た た た た た た た た た た
 Page 103, Line 4-11 While industry played a vital role in the development and improvement of road safety (see below projects), government set the framework by: supporting the development of ITS-related safety requirements; developing programs to provide incentives to encourage deployment of ITS safety-oriented products and services; 	 Page 84, Line 22 - Page 85, Line 3 While industry played a dynamic role in developing and improving road safety (see below projects), government set the framework by: supporting the development of ITS-related safety requirements; developing plans to offer incentives for deployment of ITS safety-oriented products/services; providing the necessary subsidy for ITS safety applications 	冗長な表現を なくした修正 のため、訂正 を認める。

• providing the funding necessary for ITS research and deployment	research and deployment, mainly pre-crash ones;	
for safety-based applications, mainly pre-crash ones;	 seeking opportunities to deploy ITS technologies. 	
• seeking opportunities to deploy ITS technologies.		
Page 103, Line 12 - Page 104, Line 6	削除	冗長な記述の
Partnership for pre-crash safety technological projects:		削除と認めら
1) Example of PPP project, initiated by MOC: Advanced Cruise-		れるため、訂
Assist Highway Systems (AHS)		正を認める。
In 1989, the Ministry of Construction launched research and		
development for AHS (Automated Highway System was renamed in		
1993 to Advanced Cruise-Assist Highway System). Research and		
development have been promoted jointly with the AHS Research		
Association, formed by 21 enterprises.		
2) Example of NIS project initiated by MOT: Advanced Safety		
Vehicle (ASV)		
In 1991, ASV project was launched to incorporate advanced		
technologies for greater safety in vehicles. The ASV Promotion		
Study Group, set up jointly by MOT, experts, academics, and		
automobile manufacturers conducted the project. Research scope has		
been expanded to include trucks, buses and motorcycles, so the		
number of participating automobile manufacturers increased from		
nine to thirteen.		
3) Example of public-public, MOC-MOT ^{xxii} , partnership project:		
Smart cruise Project		
The Smart Cruise project has been jointly developed by MOC which		
has been promoting R&D on AHS, and MOT, which has been		
promoting R&D on ASV. The project aims ultimately at automated		
driving, to assist drivers in avoiding accidents. MOT and MOC began		
a proving tests program called "Smart Cruise 21".	D 05 L 15 10	□ □ ふ + 田 ♪
Page 104, Line 19-24 Deblie contempted and the conference of a main interaction	Page 85, Line 15-19	冗長な表現を
Public sector stakeholders need to seek ways to reduce administrative and bureaucratic decision making process. To aggravate the situation,	Public sector stakeholders need to reduce bureaucratic decision making process. To aggravate the situation, this inflexibility creates	なくした修正
this inflexibility creates some kind of sectionalism across ministries	some kind of sectionalism across ministries and public agencies	のため、訂正
and public agencies which impedes intra-public sector cooperation.	which impedes intra-public sector cooperation. Public stakeholders	を認める。
Public stakeholders often view each other as competitors rather than	often view each other as opponents rather than partners who may	
interdependent cooperators collaborators who may contribute to each	add to each other for common goals.	
other and together to common goals.	add to cach other for common gouls.	
Page 104, Footnote	削除	該当する本文
^{xxii} MOT and MOC have been integrated in a new ministry, MLIT,	עאונים	wョッる本文 がなくなった
Ministry of Land Infrastructure and Transport. The MOT's AHS		
project and the MOC's ASV project became respectively Smart		ため、訂正を
project and the file stript project became respectively billart	1	

Highway and Smart Vehicle projects within MLIT.		認める。
Page 105, Line 7-9	Page 86, Line 1-3	冗長な表現を
By extrapolating the concept of "coopetition", to compete and	By extrapolating the concept of "coopetition", to simultaneously	なくした修正
cooperate with the others at the same time, to the public agencies in	compete and cooperate with the others to the public agencies in an	のため、訂正
an entrepreneurial state context, public agents in emerging innovation	entrepreneurial state context, public agents in emerging innovation	を認める。
have to cooperate.	have to cooperate.	
Page 105, Line 20-23	Page 86, Line 14-17	冗長な表現を
Compared with public-private partnerships, partnerships between	Compared with public-private sectors partnerships, public-public	なくした修正
public agencies have constraints more constraints. Indeed, while	sectors partnerships have additional limitations. Indeed, while	のため、訂正
businesses will not make initial arrangements for the projects where	businesses will be not involved in partnership without expecting	を認める。
they do not see profits, initial partnering process between public	expect profits, public sectors partnering are mostly motivated by	
agencies are often stimulated by political or other various external	additional political factors.	
factors.		
Page 105, Line 24-27	Page 86, Line 17-20	参考文献を明
Although the VICS partnership between public-private players was	Although the VICS partnership between public-private players was	示したため、
relatively smooth, there was some technological competition between	relatively smooth, there was some technological competition	訂正を認め
these three public organizations regarding communication	between these three public organizations regarding communication	る。
technologies to provide drivers with real time traffic information.	technologies to provide drivers with real time traffic information ¹³⁶ .	
Page 106, Line 5-19	削除	冗長な記述の
Vehicle communication systems R&D activities had been conducted		削除と認めら
independently by		れるため、訂
• National Police Agency (NPA), with Advanced Mobile Traffic		正を認める。
Information and Communication System (AMTICS). The NPA		- // - 0
system integrated the optical beacon function with optical traffic		
sensors not only for information provision, but also for		
information acquisition. Indeed, optical beacons have a two-way		
communication function used for on-demand Dynamic Route		
Guidance System (DRGS), part of Universal Traffic		
Management Systems (UTMS).		
• Ministry of Construction (MOC), with Road/Automobile		
Communication System (RACS). The MOC, responsible for road construction and traffic administration on motorways, intended to		
use radio beacons as a platform for extended services including,		
e.g., Electronic Toll Collection (ETC) system with Dedicated		
Short Range Communication (DSRC) which has also a two-way		
communication.		
 Ministry of Posts and Telecommunications (MPT), with FM 		
multiplex broadcasting		
Page 107, Line 7	Page 87, Line 12	軽微なエディ
what is further confusing it that ,	what is further confusing it that,	1110(よー/1
what is further confusing it that,	what is further confusing it that,	

		トリアル修正 のため、訂正 を認める。
Page 109, Line 11 with a infrastructure-based approach	Page 89, Line 14 with an infrastructure-based approach	を認める。 軽微なエディ トリアル修正 のため、訂正 を認める。
Page 110, Line 2-8 The US Congress formally mandated the creation of ITS America in 1991, to serve not only as a Federal Advisory Committee to the U.S. Department of Transportation (DOT), but also as a forum on ITS issues. ITS America ¹⁰⁴ , as a not-for-profit organization, includes "federal, state, local and foreign government agencies; national and international companies involved in the development of ITS; universities, independent research organizations, public interest groups, and any others with a stake in ITS."	Page 90, Line 3-7 The US Congress assigned ITS America in 1991, to function as an US Federal Advisory body for the U.S. Department of Transportation (DOT) and as discussion platform on matters related to ITS. ITS America ¹⁴² , as a not-for-profit organization, consist of federal, state, local and other administrations; domestic and global corporations; universities, research institutions, interest groups, and others involved in ITS ¹⁴³ ."	参考文献を加 えて冗長な表 現をなくした 修正のため、 訂正を認め る。
 Page 110, Line 13-25 U.S. Department of Transportation (DOT), US equivalent to the Japanese Ministry of Land, Infrastructure and Transport (MLIT), receives funds from US Congress and then provides funds, training and information to businesses, universities, and state and local governments. The U.S. DOT established ITS Joint Program Office (JPO) to coordinate and collaborate with different administrations^{xxiii} related to transport. At the federal level, ITS JPO is responsible for all ITS programs across U.S. DOT in planning, strategic directions and budgeting. The official objectives of the ITS JPO are to: (1) provide strategic leadership for ITS programs, (2) coordinate policy e.g. JPO agency establishes policy, manages the budget, and oversees programs. (3) fund and supervise basic research. 	 Page 90, Line 12-20 U.S. Department of Transportation (DOT), US equivalent to the Japanese Ministry of Land, Infrastructure and Transport (MLIT), receives funds from US Congress. The U.S. DOT established ITS Joint Program Office (JPO) to coordinate and collaborate with different administrations^{xix} related to transport. At the federal level, ITS JPO is in charge for planning, directions and budgeting of all ITS programs across U.S. DOT ITS JPO (1) lead ITS programs, (2) direct policies and programs. (3) fund and supervise basic research. 	冗長な表現を なくした修正 のため、訂正 を認める。
Page 111, Line 2-8Since the early history of the ITS program in the early 1990s, ITSAmerica has acted as a formal advisory organization for U.S. DOTon ITS. ITS JPO asks as well members of ITS America for input in aparticular issue.Most importantly, ITS JPO and ITS America jointly completed"The National ITS Plan" in 1995, the National ITS Program Plan	Page 91, Line 1-5 Since early 1990s, ITS America operated as an advisory body for the U.S. DOT on matters related to ITS where ITS JPO requests members of ITS America for involvement in ITS matter. ITS JPO and ITS America jointly worked on "The National ITS Plan" in 1995, the National ITS Program Plan in 2002 and the "9 New Initiatives" in 2004.	冗長な表現を なくした修正 のため、訂正 を認める。

in 2002 and the "9 New Initiatives" in 2004.		
 Page 111, Line 9-22 When compared to USA, the following observations can be stated: -Problems of dispersed authority in Japan: while ITS Joint Program Office (ITS JPO) is a primary coordination agency among public organizations in the U.S., Japan has no equivalent national agency that coordinates ITS-related public agencies. Instead, four-ministry liaison conferences are held jointly. -Although ITS Japan collaborates with the four public agencies/ministries to promote ITS deployment in Japan, but it is separated from them in structural, budget and decision making arrangement. ITS Japan has no mandated role in policy-making. ITS Japan is not formally and actively associated to ITS policy in Japan although it might have a limited advisory role. -ITS America is a congressionally mandated Public-Private Partnership while ITS Japan is a private-academia partnership. In ITS Japan, there is public sector institutions involved. 	 Page 91, Line 7-19 When compared to USA, the following observations can be stated: Problems of dispersed authority in Japan: while ITS JPO acts as coordination agent among US public organizations, Japan has no corresponding national coordinator among ITS-related public agencies, only a 4 -ministry liaison conferences held conjointly. -Although ITS Japan collaborates with the four public agencies/ministries, it is separated in terms of structural, budget and decision making procedure. -ITS Japan has no mandated role in policy-making. ITS Japan is not formally and actively associated to ITS policy in Japan although it might have a limited advisory role. -while ITS America is a Public-Private Partnership, ITS Japan is a private-academia partnership. - In ITS Japan, there is public sector institutions involved. 	冗長な表現を なくした修正 のため、訂正 を認める。
 Page 112, Line 20-21 follow up on the status of evaluation efforts by individual ministries and agencies related to ITS. 	 Page 92, Line 17 follow up on individual ministries and public agencies related to ITS. 	冗長な表現をなくした修正のため、訂正を認める。
 Page 113, Line 6-14 Indeed, when compared to USA, there is a problem of dispersed authority in Japan: while ITS Joint Program Office (ITS JPO) is a primary coordination agency among public organizations in the U.S., Japan has no equivalent entity that coordinates ITS-related agencies. Based on the US ITS Joint Program Office (JPO) model, a Japanese equivalent would do the following: coordinate and collaborate with different public organizations related to transport, coordinate between different agencies of the government, research and academic institutions, and nongovernmental organizations, 	 Page 92, Line 25 - Page 93, Line 5 Indeed, when compared to USA, there is a problem of dispersed authority in Japan: while ITS JPO acts as coordination agent among US public organizations, Japan has no corresponding national coordinator among ITS-related public agencies Based on the US ITS JPO model, a Japanese equivalent would do the following: coordinate and collaborate with different public organizations related to transport, bring together the multiple governmental, research, academic and nongovernmental organizations, 	冗長な表現を なくした修正 のため、訂正 を認める。
Page 113, Line 23-27 Most importantly, ITS JPO can also provide a forum for all ITS public sector entities to resolve conflicts including the current organizational public sectionalism in ITS and advance mutual interests ideally, this ITS JPO should have authority and	Page 93, Line 14-18 Most importantly, ITS JPO can also provide a forum for all ITS public sector entities to resolve conflicts including the current organizational public sectionalism in ITS and advance mutual interests ideally, this ITS JPO should take the responsibility to	明確な表現へ の修正のた め、訂正を認 める。

responsibility to make decisions and coordinate ITS efforts by all	coordinate ITS activities by all government-related organizations	
sectors of government.		
 Page 114, Line 9-10 ITS Japan recommends the use of schemes, systems and organizations that combine private-sector and public sector fundings Page 114, Line 13-14 Promotion of collaboration and liaison between the public and private sectors 	 Page 94, Line 2-3 ITS Japan recommends the use of schemes, systems and organizations that combine private-sector and public sector funding 削除 	綴り修正のた め、訂正を認 める。 冗長な記述の 削除と認めら れるため、訂
 Establishment of schemes and systems for the introduction of public-sector funds. Page 115, Line 2-4 Although ITS Japan collaborates with the four public agencies to promote ITS deployment in Japan, it is separated from them in structural, financial and decision making arrangement when compared to ITS America. 	Page 94, Line 20-22 Although ITS Japan cooperates with the four public agencies, it is disconnected from them for structural, financial and decision making arrangement when compared to ITS America.	正を認める。 明確な表現へ の修正のた め、訂正を認 める。
 Page 116, Line 4 advise all arms of the government on all ITS matters; 	 Page 95, Line 21 give advice all governmental entities on ITS issues 	明確な表現へ の修正のた め、訂正を認 める。
 Page 116, Line 10-12 provide strategic leadership for ITS programs, formulate policy, set goals and elaborate ITS strategies in Japan, including the targeting of particular areas and the setting of priorities. 	 Page 95, Line 27 - Page 96 Line 2 be responsible for ITS programs leadership, devise policy, set objectives and elaborate ITS plans in Japan, aiming at specific areas including priorities. 	明確な表現へ の修正のた め、訂正を認 める。
Page 116, Line 16 Such ministery might be	Page 96, Line 6 Such ministry might be	綴り修正のた め、訂正を認 める。
Page 118, Line 4-20 ITS will impact the relationship of roads, vehicles, and drivers, to achieve deployment of a number of key safety and information services that take advantage of telecommunication. The envisioned approach calls for private sector to install the technology in all new vehicles, to achieve safety and mobility benefits while, at the same time, public sector would focus on the roadside communications infrastructure e.g. in VICS. Indeed, in order to reap the benefits of ITS, it is necessary to involve the full range of actors in the public, private and academic sectors in a process that is inclusive, open and participatory. In the case of ITS, the relative success is correlated to	Page 98, Line 8-21 ITS will impact the relationship of roads, vehicles, and drivers, to achieve deployment of a number of key services such as safety and information enabled by telecommunication. The envisioned approach calls for private sector to install the technology in all new vehicles, to achieve safety and mobility benefits while, at the same time, public sector would focus on the roadside communications infrastructure e.g. in VICS. Indeed, in order to secure the benefits of ITS, public, private and academic sectors should be involved in an inclusive, open and participatory process. In the case of ITS, the relative success is correlated to the partnership for both policy and	冗長な表現を なくした修正 のため、訂正 を認める。

the partnership not only in the design of policy, but also, and more importantly, in their implementation—in such a way that each has specific roles and responsibilities. Partnerships are required to address the potential market failures and to create win-win situations for the various partners involved. The increase of ITS opportunity is leading to the creation of new products, services and distribution channels within traditional industries, as well as innovative "partnership-business models" and whole new industries. Neither the public sector nor the private sector alone as main partners would have achieved this objective: each is dependent on the partnership of others to accomplish its goals.	implementation and each has specific responsibilities. Partnerships are required to create win-win situations for all partners involved. ITS opportunities are leading to creation of new products/services within existing industries, for innovative "partnership-business models" and for entire new industries. Public sector or private sector alone cannot achieve goals: each is dependent on the partnership of others.	
Page 119, Line 5-6 Implementing ITS depends on building partnership within and	削除	冗長な記述の 削除と認めら
between the public sectors at all levels.		れるため、訂 正を認める。

Chap '	V	Ubia	uitous	Society
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訂正前	訂正後	訂正理由と内 容・訂正を認 めた理由
 Page 122, Line 9-11 The 1995 "ITS Guidelines" defined ITS as a driving force for "introducing information technology (IT) into the public sector," indispensable for promoting creation of an advanced infocommunications society". 	 Page 102, Line 9-10 The 1995 "ITS Guidelines" defined ITS as a driving force for an advanced info-communications society". 	冗長な表現を なくした修正 のため、訂正 を認める。
Page 122, Footnote xxviUNS is defined as infrastructure that can easily connect to networks that anyone can use at anytime from anywhere for any purpose and that has no digital divide	Page 102, Footnote UNS is defined as infrastructure that can easily connect to networks that anyone can use at anytime from anywhere for any purpose and that has no digital divide (http://japan.kantei.go.jp/policy/it/Program2006.pdf)	参考文献を明 示したため、 訂正を認め る。
Page 123, Line 4-6 In Japan, Intelligent Transport System (ITS) has been regarded, as analyzed in Chapter II, as a comprehensive info-telecommunications system dealing with transportation.	Page 103, Line 4-6 In Japan, Intelligent Transport System (ITS) has been regarded, as analyzed in Chapter II, as a comprehensive info-telecommunications system related to transportation.	明確な表現へ の修正のた め、訂正を認 める。
Page 123, Line 8-14 The 1995 "Guidelines" defined ITS as a driving force for "introducing information technology (IT) into the public sector," indispensable for promoting creation of an advanced info- communications society". In 1999, the Telecommunications Technology Council (TTC) mentioned in "Info-communications Systems of ITS" report that ITS would be a major driving force for the Ubiquitous Society. One of the projects ¹¹⁹ of u-Japan plan is ITS implementation.	Page 103, Line 8-12 The 1995 "Guidelines" defined ITS as a driving force for an advanced info-communications society". For the Telecommunications Technology Council (TTC) mentioned in 1999 that ITS would be a key engine for the Ubiquitous Society. One of the projects ¹⁵⁸ of u-Japan plan is ITS implementation.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 123, Line 18 - Page 124, Line 11 As Gore launched a National Information Infrastructure Initiative (NII) aiming at linking educational networks, research networks, medical networks and financial networks, Harvard's Branscomb ¹²⁰ argued that ITS is missing and ITS and NII should be integrated as well. As a result of analyzing 29 ITS user services, he observed that a significant component of ITS services may be provided through general-purpose communication infrastructure. He pointed out, "to date, ITS activity has occurred almost exclusively in the transportation domain", with "no formal mechanism connecting ITS and the NII," and "ITS has been largely absent in reports coming out of the Gore's Information Infrastructure Task Force, the focal point	Page 103, Line 16 - Page 104, Line 5 As Gore initiated a "National Information Infrastructure" (NII) aiming at connecting educational, research, medical and financial networks, Harvard's Branscomb ¹⁵⁹ argued that ITS is missing and ITS and NII should be integrated as well. He pointed out that "to date, ITS activity has occurred almost exclusively in the transportation domain", with "no formal mechanism connecting ITS and the NII," and "ITS has been largely absent of the Gore's Information Infrastructure Task Force" ¹⁶⁰ . Decade later, a link has been finally made between ITS and ICT in ITS America Vehicle Infrastructure Integration (VII) project. The goal of this Vehicle-Infrastructure Integration program (VII) is an	冗長な表現を なくし、引用 が明確になる ように修正し たため、訂正 を認める。

for federal coordination on NII activities" ¹²¹ . Decade later, a link has been finally made between ITS and ICT in ITS America Vehicle Infrastructure Integration (VII) project. The objective of this Vehicle-Infrastructure Integration program (VII) is to create an integrated, intercommunicating surface transportation system. The system is to use DSRC (Dedicated Short Range Communication) to link the road infrastructure with vehicles and their drivers. It will gather and share information to help improve the performance of the road infrastructure, vehicles, and drivers. The VII initiative defines its mission "to establish nationwide vehicle-vehicle and vehicle-infrastructure communication capability" and its primary goal to "deploy a communications infrastructure that supports both vehicle-infrastructure and vehicle-vehicle communications and enables a variety of innovative services" ¹²² .	integrated, surface transportation system using DSRC (Dedicated Short Range Communication) to connect the road infrastructure with vehicles to share information between road infrastructure, vehicles, and drivers. The U.S. Department of Transportation defines VII initiative mission as "to establish nationwide vehicle-vehicle and vehicle-infrastructure communication capability and its primary goal to deploy a communications infrastructure that supports both vehicle-infrastructure and vehicle-vehicle communications and enables a variety of innovative services" ¹⁶¹ .	
Page 124, Line 18-22 Additionally, to Japan (and Taiwan), Korea has placed a high priority on the establishment of the Ubiquitous Society. Korea announced in 2006, a new IT National Strategy called "u-IT839". The term "839" comes from "8 Services", "3 Infrastructures", and "9 Growth Engines.". Telematics, the ITS-based vehicle concept took a prominent position in such program.	Page 104, Line 12-16 Additionally, to Japan (and Taiwan), Korea has placed a high priority on the establishment of the Ubiquitous Society. Korea announced in 2006, a new IT National Strategy called "u-IT839" ¹⁶² . The term "839" comes from "8 Services", "3 Infrastructures", and "9 Growth Engines" ¹⁶³ :	参考文献を加 えて冗長な表 現をなくした 修正のため、 訂正を認め る。
Page 124, Line 23 The "8" main services are:	Page 104, Line 17 The "8" main services are ¹⁶⁴ :	参考文献を明 示したため、 訂正を認め る。
Page 125, Line 6 The "3" infrastructures are:	Page 104, Line 26 The "3" infrastructures are ¹⁶⁵ :	参考文献を明 示したため、 訂正を認め る。
Page 125, Line 10 The "9" growth engines are:	Page 104, Line 30 The "9" growth engines are ¹⁶⁶ :	参考文献を明 示したため、 訂正を認め る。
Page 126, Line 2-4 The concept of ubiquity reflects the trend where computing/communicating devices become increasingly invisible, intelligent, and deployed in a variety of settings such as the home, office and <i>vehicle</i> .	Page 105, Line 16-18 The concept of ubiquity describes the ICT development where devices become invisible or transparent, smart and installed in various location such as home, office and vehicle.	明確な表現へ の修正のた め、訂正を認 める。

Page 126, Line 8-10 Age 105, Line 21-24		冗長な表現を
As an example of "networked" environment, the vehicle in which	As an example of "networked" environment, the vehicle in which	なくした修正
traditional mechanical and systems are electronic, software-	traditional mechanical and systems are electronic and networked not	のため、訂正
controlled and networked not only with each other but also with the	only with each other but also with the external environment.	を認める。
outside environment.		
Page 126, Line 14-17	Page 105, Line 28-29	冗長な表現を
The aim of the technologies is to deploy and enable a	The purpose of these technologies is to support communications for	なくした修正
communications infrastructure that supports vehicle-to-infrastructure,	both vehicle-to-infrastructure, and vehicle-to-infrastructure-to-	のため、訂正
as well as vehicle-to-infrastructure-to-vehicle communications, for a	vehicle applications.	を認める。
variety of vehicle and transportation applications.		
Page 127, Line 19-21	Page 107, Line 2-3	冗長な表現を
In 2006, with regard to the traffic safety, a more realistic target of	In 2006, with regard to the traffic safety, a more realistic target	なくした修正
"reducing traffic fatalities to 5,000 or below by the end of 2012" is	"reducing traffic fatalities to below 5,000 by 2012" is stated ¹⁶⁹ .	のため、訂正
stated ¹²⁵ .		を認める。
Dege 127 Line 22 Dege 129 Line 4	Page 107, Line 4-11	
Page 127, Line 22 - Page 128, Line 4 IT New Reform Strategy document (excerpt and underlined by	New IT Reform Strategy document	参考文献を明
		示したため、
author)		訂正を認め
This document has two very important focuses: realizing the	(http://japan.kantei.go.jp/policy/it/ITstrategy2006.pdf) has two very	る。
Ubiquitous Society and creating a safe society through the utilization	important focuses: realizing the Ubiquitous Society and creating a	
of IT applications.	safe society through the utilization of IT applications.	
Among the three categories of Priority IT policies, the first category	Among the three categories of Priority IT policies, the first category	
of policies is policies that seek the resolution by the use of IT of	of policies is policies that seek the resolution by the use of IT of	
various problems confronting Japan such as measures designed to	various problems confronting Japan such as measures designed to	
create a society in which people can live safely and securely:	create a society in which people can live safely and securely ¹⁷⁰ :	
Page 128, Line 16-20	削除	冗長な記述の
By FY 2007, define the technology specifications necessary for		削除と認めら
rapidly sharing data on the location of traffic accidents with		れるため、訂
medical facilities including emergency response vehicles using cell		
phones and other means of communications, promote the		正を認める。
introduction of systems by local governments and medical facilities,		
and promote the additional use of on-board equipment.		
Page 128, Line 21-22	Page 107, Line 22-23	参考文献を明
Eighth Fundamental Traffic Safety Program FY2006 to FY2010	Eighth Fundamental Traffic Safety Program FY2006 to FY2010	示したため、
(excerpt and underlined by author)	(excerpt ¹⁷¹ and underlined by author)	訂正を認め
		司正を配める。
Page 129, Line 1-4	Page 108, Line 3-6	<u>る。</u> 参考文献を明
Basic Principles	Basic Principles ¹⁷²	
• We should aim to ultimately achieve a society with no traffic	• We should aim to ultimately achieve a society with no traffic	示したため、
• we should aim to ultimately achieve a society with no traffic	• we should aim to allmalely achieve a society with no traffic	

accidents We will follow the basic principle of people	accidents We will follow the basic principle of people	訂正を認め
• We will follow the basic principle of people By:	• We will follow the basic principle of people By ¹⁷³ :	る。
By: Page 129, Line 9-13 Priority measures of the program comprise: (1) Road environment enhancements, (2) Implementation of the traffic safety initiative, (3) Promotion of safe driving, (4) Implementation of vehicle safety, (5) Preservation of order on the road, (6) Enhancement of rescue systems, (7) Improvement of liability security and victim support, and (8) enhancement of research, development, surveys, etc. Page 129, Line 17 6 th priority measure: to be taken enhancing rescue and emergency services systems	<i>By</i> ¹⁷² : Page 108, Line 11-16 <i>Priority measures</i> of the program (<i>www8.cao.go.jp</i>) comprise ¹⁷⁴ : (1) <i>Road environment enhancements, (2) Implementation of the traffic</i> <i>safety initiative, (3) Promotion of safe driving, (4) Implementation</i> <i>of vehicle safety, (5) Preservation of order on the road, (6)</i> <i>Enhancement of rescue systems, (7) Improvement of liability</i> <i>security and victim support, and (8) enhancement of research,</i> <i>development, surveys, etc.</i> Page 108, Line 20-21 <i>6th priority measure: to be taken enhancing rescue and emergency</i> <i>services systems (www8.cao.go.jp)</i>	参 考 文 た お の 、 訂 正 を 認 め る 。 参 考 し た お 認 め る 。 、 訂 正 を た た 認 め る 、 訂 正 を あ の 、 こ を た た 認 の の 、 の 、 の の 、 の の の の の の の の の の の
Page 129, Line 18 - Page 130, Line 13 The government will improve rescue and emergency services systems and emergency medical care services by promoting closer liaison and cooperation with emergency-related organizations such as emergency medical facilities and firefighting organizations. The improved systems will be designed to deal with road traffic accidents, including accidents on national expressways, to save the lives of people injured in traffic accidents and to minimize the harm and damage caused by accidents. To further improve the life-saving rate and the effectiveness of life-saving treatment, the government will focus particular attention on providing emergency medical care and emergency treatment to injured people by doctors, nurses, emergency life-saving technicians or ambulance attendants, as soon as possible at emergency scenes and on the way to medical facilities. At the same time, they will promote improved reporting of emergencies from the scenes of traffic emergencies and provide more widespread training on bystander's first aid procedures. (1) Improving rescue and emergency services systems To rescue the injured as soon as possible and expedite accident processing in case of emergency, such as traffic accidents, the government will promote wide application of the Help system for Emergency Lifesaving and Public safety (HELP). (2) Improving emergency medical systems	Page 108, Line 22 - Page 109 /Line 5 The government will improve rescue and emergency services systems and emergency medical care services by promoting closer liaison and cooperation with emergency-related organizations such as emergency medical facilities and firefighting organizations. The improved systems will be designed to deal with road traffic accidents, including accidents on national expressways, to save the lives of people injured in traffic accidents and to minimize the harm and damage caused by accidents. (1) Improving rescue and emergency services systems (2) Improving emergency medical systems (3) Cultivating the cooperation of emergency-related organizations	る。

 organizations, such as emergency medical facilities and firefighting organizations. Page 130, Line 15-24 From above two documents, the following specific statements are related to post-crash systems: In the future, the prevention of traffic accidents will require collaboration between the various involved government agencies as well as the private sector Reducing the annual number of any casualties to one million or less by 2010. The government will improve rescue and emergency services systems and emergency medical care services by promoting closer liaison and cooperation with emergency-related organizations. The improved systems will be designed to deal with road traffic accidents to save the lives of people injured in 	削除	冗長な記述の 削除と認めら れるため、訂 正を認める。
 traffic accidents and to minimize the harm and damage caused by accidents. Page 131, Line 7-13 The underlying concept of ITS is that safety of people and vehicle can be enhanced through the use of ITS-related technologies, both at the level of the vehicle and infrastructure. Already, in a document issued in 2003 "ITS Strategy in Japan"¹²⁷, in terms of safety and security, ITS Japan aimed at achieving a zone where traffic accident fatalities are reduced to zero. In 2006, with regard to the traffic acfine traffic fatalities to 5 000 erections. 	Page 109, Line 18-23 The underlying concept of ITS is that safety of people and vehicle can be enhanced by ITS-related technologies, both at the level of the vehicle and infrastructure. Already, in a document issued in 2003 "ITS Strategy in Japan" ¹⁷⁶ , in terms of safety and security, ITS Japan aimed at achieving a zone where traffic accident fatalities are reduced to zero. In 2006, with regard to the traffic safety, a more	冗長な表現を なくした修正 のため、訂正 を認める。
safety, a more realistic target of "reducing traffic fatalities to 5,000 or below by the end of 2012" is stated ¹²⁸ . Page 131, Line 26-27 Indeed ITS in Japan has focused heavily on pre-crash safety measures in an attempt to significantly reduce fatalities.	realistic target of "reducing traffic fatalities to below 5,000 by 2012" is stated ¹⁷⁷ . Page 110, Line 9-10 Indeed, ITS in Japan has focused heavily on pre-crash safety measures in an attempt to significantly reduce fatalities.	軽微なエディ トリアル修正 のため、訂正 を認める。
 Page 132, Line 6-7 Crash notification systems sends location information with GPS or wireless network location technologies, and open a voice link when a crash occurs, 	 Page 110, Line 18-19 Crash notification systems send location information with GPS or wireless network location technologies, and open a voice link when a crash occurs, 	後り修正のた め、訂正を認 める。

Page 132, Line 10-14 Post-crash notification systems take the safety benefits of the crash notification systems to the next level by providing emergency responders with data that indicates the severity of the crash. In the event of a crash, an installed post-crash notification systems device automatically transmits, in real-time, crash data retrieved from invehicle sensors.	Page 110, Line 22-26 For ComCARE Alliance," post-crash notification systems take the safety benefits of the crash notification systems to the next level by providing emergency responders with data that indicates the severity of the crash ¹⁷⁹ . In the event of a crash, an installed post-crash notification systems device automatically transmits, in real-time, crash data retrieved from in-vehicle sensors." ¹⁸⁰	参考文献を明 示し、引用符 を挿入して引 用箇所を明確 化した修正の ため、訂正を 認める。
 Page 132, Line 16 - Page 133, Line 3 Getting to the scene of a crash by emergency response teams as quickly as possible is critical to saving lives: the shorter the time to medical treatment, the greater is the likelihood of recovery. Deaths occur when the victim did not arrive at a hospital or at a trauma center, within the "Golden Hour¹³⁰", referred by Emergency Medical Services (EMS) professionals to the first 60 minutes of care after a multiple trauma injury. The Golden Hour concept consists of the following time frames: (1) Time between crash occurrence and EMS Notification, also called the "Golden 10 minutes"¹³¹ (2) Travel time to the crash scene by EMS, (3) On-scene EMS rescue time, (4) Transport time to a hospital or trauma center, (5) Emergency department resuscitation time. Time critical injuries are the polytrauma, brain trauma and internal trauma injuries: Trauma is a time-dependent injury. "The Golden Hour" of trauma care is a concept that emphasizes on time dependency. 	 Page 111, Line 1-13 Deaths occur when the victim do not reach the emergency services, within the "Golden Hour¹⁸¹", referred by Emergency Medical Services (EMS) professionals to the first 60 minutes of care after a multiple trauma injury. The Golden Hour time concept comprises the following time frames: Time between crash incident and EMS report, also called the "Golden 10 minutes"¹⁸² Arrival time to the crash by EMS, On-site EMS rescue time, Transport time to emergency center, Emergency intensive caretime. "The Golden Hour" is a concept that emphasizes the time dependency of trauma care. Trauma, as a time critical injury, might	冗長な表現を なくした修正 のため、訂正 を認める。
 Page 133, Line 4-27 Polytrauma injuries As stated by R.D. Stewart¹³², in polytrauma, crash victims suffering multiple injuries, the first hour of care is crucial: the patient must come under restorative care during that first hour". Brain trauma injuries The most disabling injury that produces the greatest degree of long-term morbidity and cost is the post-traumatic brain injury. For the US Department of Transportation, "All neurological damage does not occur at the moment of impact (primary injury), but rather evolves over the ensuing minutes, hours, and days. This secondary brain injury can result in increased mortality and more disabling injuries¹³³."	削除	冗長な記述の 削除と認めら れるため、訂 正を認める。

 Internal trauma injuries As the use of seat belts increased and more people are protected by air bags, injury patterns are changing and injuries became more difficult to recognize. Previously external injuries were an obvious indicator of crash severity and of the potential presence of internal injuries. However, the growing absence of external injuries among people protected by air bags and/or belts are now found to be misleading emergency medical care providers into missing internal injuries, sometimes with fatal consequences. Page 134, Line 2-6 In principle, emergency responders want as much crash data as possible about the severity of the crash. This data will allow a prediction of the severity of the injuries and could make a more appropriate response, not just a faster one. If Emergency Medical Services (EMS) can estimate the seriousness, the number of people involved, and assess their injuries, it can make better decisions. Page 134, Line 7-23 PCNS provides metrics that can help critical decisions such as: life support The appropriate EMS unit, basic or advanced life Crash data helps emergency responders dispatch the right care such as advanced life support if the data predict severe injury. The mobilization of specialized professionals PCNS data will let emergency medical technicians and hospital staff anticipates and prepare treatment for a victim, on site and in the hospital, immediately after a crash. EMS can assemble the appropriate trauma surgical team while the patient is in route, rather than waiting until the patient arrives. The right medical facility, closest hospital or regional trauma center The crash data could help doctors determine what kind of treatment may be needed, and enable them to ready an appropriate may be needed, and enable them to ready an appropriate medical team. At a trauma center, the trauma teams will be a	 as possible, which would predict the severity of injuries and could make a more appropriate response, not just a faster one. If Emergency Medical Services (EMS) can estimate the injuries seriousness of the crash and know the number of people involved, it would certainly make better decisions¹⁸³. Page 111, Line 20 - Page 112, Line 4 For www.comcare.org PCNS provides metrics which support critical decisions such as: The appropriate EMS required unit, basic or advanced If the crash data predict severe injury, it will help emergency services to send the appropriate advanced life care support. The mobilization of specialized professionals PCNS data will let emergency staff in hospitals prepare appropriate course of action for injured, on crash site and in hospital. The right medical facility, closest hospital or regional trauma center. It helps doctors determine what kind of treatment may be needed, and which appropriate medical team. The right medical facility, closest hospital or regional trauma center The crash data could help doctors determine kind of treatment needed and appropriate medical team in order to be able to deliver appropriate care for seriously injured crash victims. 	参え現修訂る。 考てを正正。 文冗なのを 文冗なのを 文冗なのを をなしめめ をなしめめ が 表た、 記 る。
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Page 134, Line 25 - Page 135, Line 6 As mentioned above, the data emitted by the post-crash notification systems give responders further refining to respond and to administer the most appropriate and effective medical treatment care. This is far more valuable than just a localized indication that simply denotes that a crash occurred as in the crash notification systems. The safety value is very substantial for vehicles that produce car crash data. The post-crash notification systems will allow the prediction of the probability of severe injury, and the probabilities of specific injuries. It would allow moving from simple knowledge of a crash, to a clear picture in real time of the severity of the crash. By enhancing the crash information that emergency and medical teams receive, the appropriate type of response assistance will be more efficient.	Page 112, Line 6-15 As mentioned above, the data emitted by the post-crash notification systems give responders further refining to react and to deliver most suitable medical treatment. This is far more valuable than just a limited localized warning for a crash occurred as in the crash notification systems. The safety value is very substantial for vehicles that produce car crash data. For ComCARE," the post-crash notification systems will allow the prediction of the probability of severe injury, and the probabilities of specific injuriesit would allow moving from simple knowledge of a crash, to a clear picture in real time of the severity of the crash ¹⁸⁴ . By enhancing the crash information that emergency and medical teams receive, the appropriate type of response assistance will be more efficient." ¹⁸⁵	参考文献を加 えて明確な表 現にした修正 のため、訂正 を認める。
 Page 135, Line 7-25 Sensors technologies (considered as part of ubiquitous technologies) The post-crash notification systems combine information from vehicle crash sensors and local positioning technology, and transmit it to EMS via wireless technologies. The engineering issue is connecting that data source to the communications capability in the car. The post-crash notification systems use a series of strategically located crash sensors that collectively calculate accident's severity and analysis, capture, and relay data with a range of critical technical information. The system discerns between front, side and rear impacts and a broad range of data including near and complete air bag deployment, number of impacts, severity calculations and rollovers. Sensors are connected to vehicle networking architecture. A sensing module receives a full perspective of the crash from the crash sensors via the vehicle's electronic architecture. Sensors measure the number, magnitude, and direction of impact forces. Sensor's software Software is needed to translate crash sensor measurements of accelerations, direction of crash forces, and crash configuration into an easily understandable rating of crash severity for emergency medical dispatch. The software would at least 1. measure metrics of the forces to know the magnitude of the crash impact; 2. measure principal direction of force (frontal, sides, and rear); 	削除	冗長な記めら 削除と認めら れるため、訂 正を認める。

3. estimate whether and how many times a vehicle has rolled.		
Page 136 /Line 6-13		マモムシントの
The Plan develops as well four "Programmatic Themes" to apply	削除	冗長な記述の
technologies to the problems and priorities of surface transportation:		削除と認めら
1. Integrated Network of Transportation Information		れるため、訂
 Integrated Network of Transportation Information Advanced Crash Avoidance Technologies that concern primary 		正を認める。
and secondary safety systems and selected automated		
enforcement		
3. Automatic Crash & Detection, Notification and Response for		
faster and reliable incident detection and notification, and		
improved response time		
4. Advanced Transportation Management		
Page 137, Line 1-14	削除	冗長な記述の
Pre-crash safety measures:	1.111	削除と認めら
Intersection Collision Avoidance Systems which monitor a		
vehicle's speed and position relative to the intersection, along		れるため、訂
with the speed and position of other vehicles in the vicinity,		正を認める。
advising the driver of appropriate actions to avoid a right-of-way		
violation or impending collision.		
Rear-End Collision Avoidance Systems which sense the presence		
and speed of vehicles ahead, and provide warnings to avoid		
collisions.		
Road Departure Collision Avoidance Systems which could		
prevent vehicles run-off-road crashes. These systems track the		
lane or road edge and suggest safe speeds for the road ahead.		
Post-crash safety measures:		
• Automated Crash Notification Systems transmit crash information		
such as collision force and angle of impact to assist responders		
determining what type of help to send and where to transport the		
injured.		
Page 137, Line 18-24	Page 113, Line 9-12	冗長な表現を
A main player in the coordination of EMS and ITS in USA is a not-	A main player in the coordination of EMS and ITS in USA is a not-	なくした修正
for-profit organization ^{xxviii} called Communications for Coordinated	for-profit organization called Communications for Coordinated	のため、訂正
Assistance and Response to Emergencies, or ComCARE Alliance ¹³⁶ .	Assistance and Response to Emergencies, or ComCARE Alliance ¹⁸⁸ .	を認める。
The stated objective of the ComCARE Alliance is "to encourage and	The stated objective is to promote a coordinated approach to	
facilitate cooperation across professional, jurisdictional, and	emergency services" ¹⁸⁹	
geographic lines, seeking to break down the walls that separate these		
agencies and professions and limit their effectiveness. Our goal is to		
promote a coordinated approach to emergency services" ¹³⁷		

Page 137, Footnote xxviiiComCARE Alliance, a broad-based national coalition of more than 90 organizations representing physicians, emergency medical technicians, emergency (911) call directors, automotive companies, consumer organizations, telematics suppliers, wireless technology companies, transportation companies, law enforcement groups, and others	削除	冗長な記述の 削除と認めら れるため、訂 正を認める。
Page 138, Line 1-7 The ComCARE Alliance supports legislation to accelerate post-crash notification systems development and deployment. In 1999, DOT and ComCARE co-sponsored the first national conference on coordinating emergency response with intelligent transportation systems. The trend toward broadening ITS deployments to include the public safety community recognized the need for greater coordination of multi-agency operations to enhance public safety and health. Medical members of ComCARE are:	Page 113, Line 13-16 The ComCARE Alliance supports legislation to accelerate post- crash notification systems development and deployment. The ITS deployments would include the public safety community for coordination of multi-agency operations to enhance public safety. Medical members of ComCARE ¹⁹⁰ are:	参考文献を加 えて冗長な表 現をなくした 修正のため、 訂正を認め る。
Page 138, Line 23-27 NMRI is a public-private partnership of more than twenty national organizations which have been meeting to develop and address issues that arise in the dealings between PCNS providers (such as OnStar) and the nation's public emergency response agencies. NMRI is supported by USDOT funds and a grant from General Motors/OnStar.	Page 114, Line 5-8 NMRI is a public-private partnership dealing between PCNS providers (such as OnStar) and the nation's public emergency response agencies. NMRI is financially supported by both USDOT funds and General Motors/OnStar grant.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 139, Line 2-18 ITS America, based on its EMS-related recommendations to the U.S. Department of Transportation's (USDOT) ITS Program, estimated that ITS technologies cannot be realized "without immediate and substantive input from the EMS community". ITS America believes that the EMS community must be involved <i>long before</i> technology is introduced, in order to assure its seamless integration into the existing EMS system. Indeed, some EMS members of ComCARE took the initiative to ask the car industries for PCNS, with crash sensors aiming to record data for a vehicle algorithm crash developed by Crash Injury Research and Engineering Network (CIREN) ¹³⁹ . CIREN is a multi-disciplinary collaboration of research on crashes and injuries at eight <i>Level 1 Trauma centers</i> . Six of these Centers are funded by US DOT, one by Honda R&D Co. Ltd. and another by Toyota Motor North America, Inc. Level 1 Trauma Centers are usually affiliated to an university ¹⁴⁰ . The mission of the Crash Injury	Page 114, Line 11-21 ITS America, based on its EMS-related recommendations to the U.S. Department of Transportation's (USDOT) ITS Program, estimated that ITS technologies cannot be realized "without immediate and substantive input from the EMS community" ¹⁹² . ITS America believes that "the EMS community must be involved long before technology is introduced, in order to assure its seamless integration into the existing EMS system" ¹⁹³ . Indeed, some EMS members of ComCARE took the initiative to ask the car industries for PCNS, with crash sensors aiming to record data for a vehicle algorithm crash developed by Crash Injury Research and Engineering Network (CIREN) ¹⁹⁴ , a multi-disciplinary collaboration of eight "Level 1 Trauma Center" (six funded by US DOT, one by Honda. and one by Toyota) ¹⁹⁵ .doing research on crashes and injuries	参示を用化表にしていた。 考し、入所にしていた。 が、 して、 の た の に で に で の の の の の の の の の の の の の の の

Research and Engineering Network (CIREN) is to improve the		
prevention, treatment, and rehabilitation of motor vehicle crash		
injuries to reduce deaths, disabilities, and human and economic costs.		
The purpose was to improve triage, transport, and treatment of people		
injured in crashes. Indeed, CIREN researchers are working to		
improve both the prevention and treatment of crash injuries.		
Page 139, Line 19 - Page 141, Line 17	削除	冗長な記述の
5.5.3.2.2 Illustration of a successful partnership: data analysis,		削除と認めら
data algorithm and software for post-crash notification system		れるため、訂
Data analysis		正を認める。
In 2001 ComCARE produced a consensus on crash data which could		
be provided by a PCNS and communicated it to all the major US-		
based automobile companies in 2002. In response, the telematics		
providers e.g. OnStar said they would provide emergency data to		
response agencies, but advocated a standardization of the data set that		
would be used to move information from them to emergency		
agencies. They asked ComCARE to facilitate that process. In the		
same year, over 20 public and private organizations participated, led		
by CIREN, in developing a standardized Vehicular Emergency Data		
Set (in XML) for use in vehicle emergencies.		
Crash Injury Research and Engineering Network (CIREN) convened		
a multidisciplinary team for the study of the prevention and treatment		
of serious crash injuries. Its team members include:		
• EMS related professions: trauma surgeons, emergency		
physicians, medical examiners, trauma nurses, epidemiologists		
vehicle crashworthiness engineers		
• computer data analysts.		
The multidisciplinary team members conducted a series of statistical		
analyses data on crashes, deaths, and injuries.		
EMS clinicians and crash engineers worked together to understand		
injury-producing mechanisms, to develop criteria for vehicle safety		
design, and to assess emerging injury patterns for diagnosis, and		
treatment of crash injuries. The CIREN Program focused medical and		
engineering research on finding ways to reduce crash deaths and		
critical injuries. CIREN research was examining questions such as:		
• What information will help the emergency medical system work		
"faster and smarter" in providing optimal care and delivering		
seriously injured crash victims to trauma centers?		
• How can new safety and communications technologies be used to		
improve triage, transport, and treatment decisions?		
	1	

 significant improvement in post-crash care with substantial benefits in reductions of deaths and disabilities from crash injuries. Page 142, Line 11-20 (2) Integration problem: CNS center operators usually verify the accuracy of the information and then relay the emergency message. Improved integration should be a joint priority of both the EMS and the CNS communities. It is in the public's best interest for emergency calls to be accurately routed to emergency control centers as quickly and effectively as possible. (3) No EMS input in ITS technologies design and development: The EMS ITS-related technologies have entered the market without sufficient developmental input from the EMS community. The EMS 	 Page 115, Line 17-25 (2) Integration problem: CNS operators usually validate the information accuracy and then relay the emergency message. Improved integration should be a priority of both the EMS and the CNS communities as emergency calls would be accurately routed to emergency control centers as quickly and effectively as possible. (3) No EMS input in ITS technologies design and development: The EMS ITS-related technologies have move in the market without 	冗長な表現を なくした修正 のため、訂正 を認める。
 How, and to what extent, are new safety technologies working to save lives and reduce disabilities? The team used the following time intervals of data available on the delivery of patients to definitive care within the "Golden Hour"¹⁴¹: (1) time between crash occurrence and EMS notification (2) time between EMS notification to EMS scene arrival (3) time between EMS onsite and hospital (4) recommended time by EMS Team members addressed new technologies that create opportunities in each of the five categories to act more rapidly and effectively to transport patients to obtain definitive care within the "Golden Hour." Data algorithm/software An objective¹⁴² of CIREN research was to develop crash injury probabilities associated with vehicle crash sensor measurements of crash severity for post-crash notification software. As the team conducted statistical analyses on fatal crashes and injury crashes, a mathematical algorithm was created to generate statistical probabilities of serious injury based on crash parameters. CIREN developed software to convert the crash severity data from vehicle sensors into an urgency rating that could provide EMS dispatchers with a probability rating of the presence of serious injuries. Using crash data, the algorithm upon vehicle impact predicts a rating of urgency from 0 to 100%¹⁴³. Low probability (0-10%) of serious injury Moderate probability of serious injury Miderate probability of serious injury 		

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emergency incident response operations and communications. In-	challenges to the EMS community.	
vehicle ITS systems, including PCNS still offer challenges to the		
EMS community.		
Page 143, Line 28 - Page 144, Line 5 Indeed such COE can host collaborative academic projects between	Page 117, Line 4-8 Indeed, such COE can host collaborative academic projects between	冗長な表現を なくした修正
medical and engineering researchers, which aim to implementation in	medical and engineering researchers, which aim to implementation	のため、訂正
the real world. The nature of PCNS is that a wide variety of parties	in the real world. The nature of PCNS is might be led as well by an	
are involved in developing, sharing and using crash and related data.	organization to insure coordination and might be established within a	を認める。
This might be led as well by an organization to insure coordination	non-profit association, with public and private equal presence.	
and inclusion of groups such as leaders in emergency medicine.		
Process might be institutionalized in a non-profit consortium, with		
equal public and private representation.		
Page 144, Line 7-22	Page 117, Line 10-13	冗長な表現を
From the New IT Reform Strategy (NITRS) and the 8 th safety	From the New IT Reform Strategy (NITRS) and the 8th safety	なくした修正
program, the following specific statements are related to post-crash	program, these post-crash concerns, without formally naming them	のため、訂正
systems:	it, are identified by official documents, no post-crash safety	を認める。
• <i>Reducing the annual number of any casualties to one million</i>	measures are currently under study as extensively and intensively as	
or less by 2010.	in other safety areas such as pre-crash safety measures in Japan.	
• collaboration between the various involved government		
agencies as well as the private sector to realize advanced ITS		
and leads Japan into the world's safest road traffic society.		
• The government will improve rescue and emergency services		
systems and emergency medical care services by promoting		
closer liaison and cooperation with emergency-related		
organizations such as emergency medical facilities.		
• The improved systems will be designed to deal with road		
traffic accidents to save the lives of people injured in traffic		
accidents and to minimize the harm and damage caused by		
accidents.		
Although these post-crash concerns, without formally naming them		
it, are identified by official documents, no post-crash safety measures		
are currently under study as extensively and intensively as in other		
safety areas such as pre-crash safety measures in Japan.	Dece 119 Line 2.5	
Page 145, Line 13-16 This difference in energy to arise from the fact that Japan's	Page 118, Line 3-5	明確な表現へ
This difference in approach seems to arise from the fact that Japan's ITS is positioned as a tool to promote research and development of	This difference in approach seems to arise from the fact that Japan's ITS is positioned as a tool to promote research and development of	の修正のた
new technologies for road traffic safety, "to expand and create new	new technologies for road traffic safety, "to create new markets for	め、訂正を認
markets for automotive and data communication-related	auto and info-communication-related sectors. ¹⁹⁹ "	める。
industries. ¹⁴⁷ "		
Page 145, Line 19	Page 118, Line 8	綴り修正のた
1 age 170, Lille 17	1 age 110, Line 0	双ソ

It can be concluded that ITS in Japan had a obvious flaw regarding	It can be concluded that ITS in Japan had an obvious flaw regarding	め、訂正を認
ITS area 9 EMS,	ITS area 9 EMS,	める。
Chap VI Globalization		

TETTE前	訂正後	訂正理由と内 容・訂正を認 めた理由
Page 147, Line 8-21 Literatures confirm Japan as a global-oriented country when it comes to export. Weiss ¹⁴⁸ states that Japan, in its industrial transformative capacity, coordinates industrial change in accordance with the changing conditions of international technological competition. Elder ¹⁴⁹ affirms that Ministry of International Trade and Industry (MITI) as a major player of Japanese industrial policy was even refurbished as Ministry of Economy, Trade and Industry (METI) – an institutional change that could be interpreted as a reflection of the branching out of industrial policies beyond catch-up patterns of the past, strategically turning towards economy-wide concerns with international competitiveness and technological innovation. Evans ¹⁵⁰ differentiates entrepreneurial role of the state as generator of public-private symbiosis to generate the synergies required for the establishment of a high-technology industry that is competitive in international markets. As such, Japan's entrepreneurial role in setting ITS would need to be competitive, not only locally but also globally.	Page 119, Line 8-15 Literatures confirm Japan as a global-oriented country when it comes to export. Weiss ²⁰⁰ states that Japan, in its industrial transformative capacity, matches industrial change in accordance with the changing international technological competition. Evans ²⁰¹ differentiates entrepreneurial role of the state as generator of public-private association to generate the collaborations required for the foundation of a competitive high-technology industry in global markets. As such, Japan's entrepreneurial role in setting ITS would need to be competitive, not only locally but also globally.	冗長な表現をなくした修正のため、訂正を認める。
Page 147, Line 23 - Page 148, Line 2 The 1996 "Comprehensive Plan for ITS in Japan" ¹⁵¹ " mentions that ITS brings a dynamic and intense international competition behind the scenes in the field of technological development and Japan should seize this opportunity to take the lead in the international arena through ITS promotion.	Page 119, Line 17-19 The 1996 "Comprehensive Plan for ITS in Japan" ²⁰² mentions that "ITS brings a dynamic and intense global competition in technological development and Japan should seize this opportunity to take the lead in the global arena through ITS ²⁰³ ."	参考文献を明 示し、引用符 を挿入して引 用箇所を明確 化した修正の ため、訂正を 認める。
Page 148, Line 29 - Page 149, Line 2 Japan has been very successful in translating its strengths in vehicle, telecom and electronics technology into successful ITS in its local market. It should be the same globally.	Page 120, Line 26-27 As Japan has been very successful in integrating its technological superiority in automobile, telecom and IT into ITS locally. It should be the same globally.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 149, Line 8-14 Transportation of people and goods is extremely vital to the national economy. Economic development comes with increase of different traffic problems: mainly congestion and accidents. Transport	Page 121, Line 6-8 Transportation of people and goods is extremely vital to the national economy. Economic development comes with increase of different traffic problems: mainly congestion and accidents.	冗長な表現を なくした修正 のため、訂正

problems are growing fastest in countries with developing economies, where the severity of traffic problems is growing in the midst of rapid urbanization, population concentration, increasing use of motorized vehicles, underdeveloped road network, budget restrictions and lack of human and physical resources.		を認める。
Page 149, Line 16-19 Importance of infrastructure to enable developing states to achieve growth, as infrastructure is the backbone of economies. It is an indisputable fact that infrastructure development and economic development have always been closely linked.	Page 121, Line 10-12 Infrastructures enable developing states to achieve growth, as its the backbone of economies infrastructure development (as a prerequisite for) economic development are closely associated.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 150, Line 2-4 Infrastructure investments also represent untapped potential for the creation of productive employment. Increasing the stock of infrastructure by 1 percent could add 1 percent to the level of GDP ¹⁵⁶ .	Page 121, Line 20-22 Infrastructure investments also represent opportunities for the job creation ²⁰⁸ . Increasing the stock of infrastructure by 1 percent could add 1 percent to the level of GDP ²⁰⁹ .	参考文献を加 えて冗長な表 現をなくした 修正のため、 訂正を認め る。
Page 151, Line 6-21 In Asia, the economic growth has resulted in a great need for infrastructure development and financing in Asia. However, financing gaps remain due to local limited capabilities. The World Bank, Asian Development Bank (ADB), and the Japan Bank for International Cooperation (JBIC) joint study report published in March 2005 under the title "Connecting EAST ASIA: A New Framework for Infrastructure ^{xxxi} ." Report points that the financing needs in infrastructure development in East Asia amount to USD 228 billion per year for the period 2006–2010 (which amount to 1,140 billion in total) but only USD 48 billion can be secured. The United Nations Economic and Social Commission for Asia and the Pacific (ESCAP) estimates the investment needs for transport infrastructure in developing and transition economies of the ESCAP region at an average of US\$224 billion per year between 2005 and 2015 ¹⁵⁸ . This includes investments in the Indian sections of the Asian Highway of roughly US\$ 3.6 billion. Similarly, the Chinese government plans to construct 400,000 kilometers of new roads to connect 80 percent of China by 2020, additionally to currently committed investments of US\$ 6.6 billion in Chinese highways.	Page 123, Line 2-17 In Asia, the economic growth has resulted "in a great need for infrastructure development and financing in Asia. However, financing gaps remain due to local limited capabilities" ²¹¹ . The World Bank, Asian Development Bank (ADB), and the Japan Bank for International Cooperation (JBIC) joint study report published in March 2005 under the title "Connecting EAST ASIA: A New Framework for Infrastructure ^{xxvi212} ." Report points "that the financing needs in infrastructure development in East Asia amount to USD 228 billion per year for the period 2006–2010 (which amount to 1,140 billion in total) but only USD 48 billion can be secured". The United Nations Economic and Social Commission for Asia and the Pacific (ESCAP) estimates ²¹³ "the investment needs for transport infrastructure in developing and transition economies of the ESCAP region at an average of US\$224 billion per year between 2005 and 2015. This includes investments in the Indian sections of the Asian Highway of roughly US\$ 3.6 billion. Similarly, the Chinese government plans to construct 400,000 kilometers of new roads to connect 80 percent of China by 2020, additionally to currently committed investments of US\$ 6.6 billion in Chinese highways" ²¹⁴ .	参考文献を明 示し、引用符 を挿入して引 用箇所を明確 化した修正の ため、訂正を 認める。
Page 152, Line 5-11 In 2000, the UN agreed the Millennium Development Goals which	削除	冗長な記述の 削除と認めら

consist of key areas of action by which the international community		れるため、訂
aims to achieve significant and measurable improvements in people's		正を認める。
lives by the target year of 2015. Road traffic injuries were not then		
recognized as a major public health concern. They did not identify		
road safety as a specific matter of concern, whilst malaria and		
tuberculosis do feature prominently in the Millennium Development		
Goals, despite having a similar impact on mortality and injury.		
Page 152, Line 12-15	Page 123, Line 22-25	明確な表現へ
The 2004 World Report on Road Traffic Injury Prevention observes	The "2004 World Report on Road Traffic Injury Prevention" notes	の修正のた
that the world faces a road safety crisis that has not been still fully	that road safety crisis that has not been still fully recognized ²¹⁵ ,	め、訂正を認
recognized ¹⁵⁹ , despite the 2002 and expected 2030 numbers, as	despite the 2002 and expected 2030 numbers, as shown in Figures	
shown in Figures 6.3 and 6.4. Figure 6.5 shows updated estimation,	6.3 and 6.4. Figure 6.5 shows updated estimation, by the same	める。
by the same author of figure 6.4, for 2030.	author of figure 6.4, for 2030.	
Page 154, Line 8-16	number of hguite of h, for 2000.	冗長な記述の
In 2004, the UN General Assembly held its first ever plenary debate	- 1441/47	削除と認めら
on the issue of road safety. The World Health Organization,		
UNICEF, and the World Bank, the General Assembly adopted a		れるため、訂
resolution ¹⁶¹ on 'Improving Global Road Safety'. The resolution was		正を認める。
a call to action by the international community to reverse the rising		
toll of deaths and injuries on the road. It recognized the importance of		
road safety and the need to build capacity in developing countries by		
providing financial and technical support. As such, the 2004 World		
Report on Road Traffic Injury Prevention, and the General Assembly		
decisions recognized of road safety as a major public policy concern.		
Page 154, Line 20 - Page 155, Line 14	Page 126, Line 4-10	冗長な表現を
The key findings presented in the World report on road traffic	The key findings from the World report on road traffic injury	
injury prevention ¹⁶² are summarized as follow:	prevention ²¹⁷ are the following	なくした修正
For 2002,	-Road traffic injuries are predicted to rise from tenth place in 2002 to	のため、訂正
-1.2 million people died as a result of road traffic collision (on	eighth place by 2030 as shown in Figure 6.4, updated by the same	を認める。
average 3242 people were killed daily).	author in 2008 as shown in Figure 6.5	
-20 million to 50 million people were injured or disabled in road	As shown in Figure 6.6, World Bank data point out that injuries will	
collisions.	rise radically by the year 2020.	
-Road traffic injuries were the 10th leading cause of death worldwide		
and accounted for 2.1% of all deaths globally, as shown in Figures		
6.3, 6.4. and 6.5		
-Road traffic deaths accounted for 23% of all injury deaths		
worldwide.		
-90% of road traffic deaths occurred in low-income and middle-		
income countries, where 5.1 billion people or 81% of the world's		
population live and own about 20% of the world's vehicles.		

-Nearly a quarter of all non-fatally injured victims requiring hospitalization sustain a traumatic brain injury as a result of motor vehicle crashes. For the future situation -Road traffic injuries are predicted to rise from tenth place in 2002 to eighth place by 2030 as shown in Figure 6.4, updated by the same author in 2008 as shown in Figure 6.5 World Bank data shows that, without appropriate action, these injuries will rise dramatically by the year 2020 as shown in Figure 6.6.		
Page 155, Line 17-18 -Road traffic deaths are predicted to increase by 83% in low-income and middle-income countries (if no major action is taken).	Page 126, Line 13-14 -Road traffic deaths are predicted to increase by 83% in low-income and middle-income countries (if no major action is taken) ²¹⁸ .	参考文献を明 示したため、 訂正を認め る。
Page 156, Line 2 Source: Kropits E,. Cropper M.	Page 126, Line 17 Source: Kraits E., Cropper M.	正しい出典情 報への変更の ため、訂正を 認める。
Page 156, Line 4-16 From above figure 6.5, South East Asia is experiencing the highest number of actual fatalities and injuries and the highest predicted growth in road traffic injuries: 144% followed by East Asia, almost 80%.	Page 127, Line 1-8 From above figure 6.5, South East Asia has highest number of actual fatalities and injuries and the highest predicted growth in road traffic injuries: 144% followed by East Asia, almost 80%.	冗長な表現を なくした修正 のため、訂正 を認める。
 -Issues 2: financial cost of traffic accidents Road crash deaths, on economic grounds consume massive financial resources that developing countries cannot afford to lose. It is estimated¹⁶⁴ that road traffic crashes cost: -US\$ 65 billion in low-income and middle-income countries, exceeding the total amount received in development assistance. These costs are comparable with the total bilateral overseas aid contributed by the industrialized countries, which amounted to \$106.5 billion in 2005. -between 1% and 1.5 % of gross national product in low-income and middle-income countries (2% of gross national product in high-income countries) 	-Issues 2: financial cost of traffic accidents Road crash deaths consume enormous financial assets that developing nation cannot afford to misplace. It is estimated ²²⁰ that road traffic crashes cost 1% and 1.5 % of gross national product in low-income and middle-income countries (2% of gross national product in high-income countries)	
Page 157, Line 2-4 Additionally, to the human and financial issues, Asian countries gave a priority for ESRs, as stated by the 2006 Busan Ministerial Declaration on Improving Road Safety in Asia and the Pacific ¹⁶⁵	Page 127, Line 10-12 Additionally, to the human and financial issues, Asian countries gave a priority for ESRs, as stated by the 2006 Busan Ministerial Declaration on Improving Road Safety in Asia and the Pacific ²²¹	参考文献を明 示したため、 訂正を認め

(excerpts)	(excerpts from <u>www.oecd.org</u>)	る。
Page 157, Line 22-23	Page 128, Line 5-6	参考文献を明
Invite the members and associate members of the Commission to	Invite the members and associate members of the Commission to	示したため、
address road safety in the following areas:	address road safety in the following areas (excerpts from	訂正を認め
	www.oecd.org):	る。
Page 158, Line 8-14	Page 128, Line 18-20	冗長な表現を
ITS should be promoted to become part of transport policy. To equip	ITS should be promoted to become part of transport policy. To	なくした修正
ITS infrastructure at the same time that physical road infrastructure	install ITS equipment simultaneously to the road infrastructure	のため、訂正
would be built at a far lower cost than doing these separately, as has	construction at a much lower cost than doing these on consecutive	を認める。
mainly been the case in developed countries. Asian countries have	steps, as has mainly been the case in developed countries.	
greater opportunity to include IT and ITS facilities in the initial construction of roadway infrastructure. In developed countries, these		
facilities have to be retrofitted, to existing roadways, and the cost of		
doing so might increase the implementation cost of ITS.		
Page 158, Line 17 - Page 159, Line 2	Page 128, Line 23 - Page 129, Line 5	冗長な表現を
The rapid diffusion of ICT technologies such as IT, internet and	The rapid diffusion of ICT technologies such as IT, internet and	なくした修正
cellular phones are important economic enablers. Since ICT (IT,	cellular phones are important economic enablers. ICT (IT, Internet,	のため、訂正
Internet, and mobile phones) widespread very rapidly in developing	and mobile phones) widespread very rapidly in developing	を認める。
economies, building an environment in which many people have	economies lay the groundwork for many type of ITS applications to	
access to these related technologies might lay the groundwork for	be deployed and to solve traffic problems.	
many kinds of ITS applications to be introduced and to solve traffic	The opportunity is to install ITS equipments by leveraging the	
problems. Road infrastructure should take advantage of this trend by	existing IT infrastructure. Most ITS applications use wireless	
deploying ITS applications which use these technologies as platform.	communications and most developing countries have well developed	
The opportunity is to deploy ITS by leveraging the existing IT	communications infrastructures.	
infrastructure. Most ITS applications use wireless communications	ITS can take advantage of these technologies to make ITS	
and most developing countries have well developed communications infrastructures.	deployment more economic, without requiring significant investment in additional communications infrastructure.	
ITS can take advantage of these technologies to make ITS		
deployment more economic, without the need for significant		
investment in separate communications infrastructure. Using existing		
mobile communication infrastructure reduces the time and cost to		
introduce ITS and accelerates the benefit delivered by ITS.		
Page 159, Line 4-10	Page 129, Line 7-8	冗長な表現を
Many countries with low GDP are short of funding for expensive	Most countries with low GDP cannot afford expensive infrastructure	なくした修正
infrastructure developments. Because of their cost, solutions to traffic	developments and since the cost of traffic problems, solutions	のため、訂正
problems are commonly assigned low priority. Additionally, road	became low priority.	を認める。
safety is not formally recognized as a specific category of		に $\mathbb{P}\mathbb{D}$ くく \mathbb{O}°
development assistance, and usually consists of a small component of		
aid to the road transport sector. This lack of international interest in		

road safety reinforces the tendency for road safety to be a low priority in many developing countries.		
 Page 159, Line 16-21 It is not financially advantageous for the Asian government alone to build ESRs because it would bear a significant amount of fiscal burden. Instead, it is possible for the government to finance projects from public funds or aid from foreign governments. If they obtain loan from foreign governments, they would also suffer the burden of external debts. Another method to raise funds is by obtaining financing from multi-lateral international aid-giving agencies such as the World Bank. Page 159, Line 23-26 Private Financing refers to a private enterprise implementing the whole project. Because of commercial viability of the project, the 	 Page 129, Line 13-18 It is not financially advantageous for the Asian government alone to build ESRs because it would bear a significant amount of fiscal burden. As an alternative, it might be possible for the local government to fund infrastructures from local public or foreign assets. If they obtain loan from foreign governments, they would also suffer the burden of external debts. Another method to raise funds is by obtaining funding from international aid organizations such as the World Bank. Page 129, Line 20-23 Private Financing refers to a private enterprise implementing the whole project due to the profitable viability of the project which will 	明確な表現へ の修正のた め、訂正を認 める。 参考文献を加 えて明確な表
private enterprise can earn profits. The private sector has invested approximately \$190 billion in East Asian infrastructure since 1990, as shown in Figure 6.7.	generate profits to the private enterprise. The private sector has invested approximately \$190 billion in East Asian infrastructure since 1990 ²²² , as shown in Figure 6.7.	現にした修正 のため、訂正 を認める。
Page 160, Line 6-13 On the other hand, it is difficult to carry out all ESRs projects using private funding because not all projects are commercially viable enough to enable private enterprises to make profits. Should the Asian state be unable to promote ESRs projects other than those to which private financing is applicable, these states would face serious difficulty in achieving economic growth. This situation brings the following dilemma: if the government plays the entire role in ESRs projects, it would suffer fiscal burden and external debts, if private enterprises play the entire role, it would be applicable only to limited number of projects.	Page 130, Line 5-8 Because not all infrastructures are financially sustainable enough to private sector enterprises, it is hard to carry out all ESRs projects using private funding. The Asian state unable to promote ESRs projects would not achieve economic growth with following problems: Government would suffer fiscal burden and external debts.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 161, Line 2-13 Under PPF, the government bears part of necessary financing while private enterprises undertake the rest on a commercial basis. Consequently, the government can reduce spending for such part undertaken by the private sector. PPF can be considered as a partnership for implementing a public infrastructure project according of a sharing of financing and risk between the public sector and the private sector. The government would support PPF through measures such as tax exemptions, minimum revenue guarantee, and other various measures to mitigate the risks inherent in infrastructure projects. PPF enables appropriate intervention by the private enterprises to enable them to earn profits in the projects that might	Page 131, Line 2-9 Under PPF, the government commits itself to the financing while private sector agrees to the rest on a business basis. PPF could be considered as a partnership as share funding share and taking risk between both private and public sectors The government would support PPF through fiscal, revenue pledge and any other measures to diminish risks intrinsic to infrastructure developments. PPF enables private enterprises to earn profits in the projects. PPP can be considered as a partnership for the private sector, through financing public services and through market mechanisms, thereby promoting economic growth.	冗長な表現を なくした修正 のため、訂正 を認める。

partnership for the private sector, through financing, to participate in providing public services through market mechanisms, thereby promoting economic growth. Page 161, Line 19-20 ************************************			
As previously demonstrated, the construction and maintenance of transport infrastructure represents a technological, financial and institutional investment. As previously demonstrated, the construction and maintenance of transport infrastructure represents a technological, financial and institutional investment ²²³ . As previously demonstrated, the construction and maintenance of transport infrastructure represents a technological, financial and institutional investment ²²³ . Page 162, Line 2-3 Evans ¹⁶⁶ differentiates entrepreneurial roles of the state for the states enterpreneurial role of the state as generator of public-private association to generate the collaborations required for the foundation of a competitive high-technology industry in global markets. Page 162, Line 13 - Page 163, Line 22 The new IT strategy has been formulated based on several principles, including the following ones): -Significant Advancement through Structural Reforms Turning to industrial competitiveness, Japan internationall dustrial competitiveness, Japan international Contribution and the same time thret were a technical advantage, and at the same time thret were instead of struggling to catch up, Japan is rather leading the worldInternational Competitiveness in such a way as to create a stet where, instead of struggling to catch up, Japan is rather leading the worldInternational Competitiveness in such a way as to create a stet where, instead of struggling to catch up, Japan is rather leading the worldInternational Competitiveness in such a way as to create a stet world is most advanced ultra high-speed broadband (utilizing the spectral contributions to other Asian countries using models and contributions to other Asian countries using models and contributions to other Asian countries to the development of Asian economies through IT, such as the development of Asian economies through IT, such as the development of Asian economies through IT, such as the development of Asian economies through IT, such as the develop	providing public services through market mechanisms, thereby promoting economic growth.		
Evans ¹⁶⁶ differentiates entrepreneurial roles of the state for the establishment of a high-technology industry that is competitive in international markets.Competitive for the foundation of a competitive high-technology industry in alcoal markets.Competitive high-technology industry in alcoal markets.Competitive high-technology industry in alcoal markets.Page 162, Line 13 - Page 163, Line 22 The new IT strategy has been formulated based on several principles, including the following ones):Page 132, Line 13-28 The new IT strategy has been formulated based on several principles, including the following ones):Page 132, Line 13-28 The new IT strategy has been formulated based on several principles, including the following ones excerpts from http://apan.kantei.go.jp/policy/iUTstrategy2006.pdf: -International CompetitivenessSolving important social problems that face all humankind by making use of the unique characteristics of our nation and by further emphasizing the perspective of the consumer and citizen, we will be in a position to provide various solutions to world added-values. In addition, it is necessary to promote reforms for reform can serve as areas where Japan can—and should— contribute globally. It is particularly in Japan's own interest to actively make such global contributions to other Asian countries using IT Japan is required to proactively contribute to the development of Asian economies through IT, such as theSolving important social contributions to the the advanced ultra high-speed broadband (utilizing	As previously demonstrated, the construction and maintenance of transport infrastructure represents a technological, financial and	As previously demonstrated, the construction and maintenance of transport infrastructure represents a technological, financial and	
The new IT strategy has been formulated based on several principles, including the following ones): -Significant Advancement through Structural Reforms Turning to industrial competitiveness, Japan internationally dominates in the technical areas of mobile communications and RFID tags, etc. It is now necessary to use industries where we already have a technical advantage, and at the same time further improve business efficiency to establish an upward growth cycle through IT-related industries that have the capability of creating new added-values. In addition, it is necessary to promote reforms for international competitiveness in such a way as to create a state where, instead of struggling to catch up, Japan is rather leading the world. -International Competitiveness in addition to the strength of our IT industries, Japan has some of the world's most advanced ultra high-speed broadband (utilizing	Evans ¹⁶⁶ differentiates entrepreneurial roles of the state for the establishment of a high-technology industry that is competitive in	Evans ²²⁴ differentiates entrepreneurial role of the state as generator of public–private association to generate the collaborations required for the foundation of a competitive high-technology industry in	明確な表現へ の修正のた め、訂正を認 める。
infrastructure shall now serve as a foundation for the development of our IT society. Solving important social problems that face all humankind by making use of the unique characteristics of our nation and by further emphasizing the perspective of the consumer and citizen as	The new IT strategy has been formulated based on several principles, including the following ones): -Significant Advancement through Structural Reforms Turning to industrial competitiveness, Japan internationally dominates in the technical areas of mobile communications and RFID tags, etc. It is now necessary to use industries where we already have a technical advantage, and at the same time further improve business efficiency to establish an upward growth cycle through IT-related industries that have the capability of creating new added-values. In addition, it is necessary to promote reforms for industrial structures through the establishment of IT-based management that will serve to help maintain and strengthen our international industrial competitiveness in such a way as to create a state where, instead of struggling to catch up, Japan is rather leading the world. -International Contribution and the Strengthening of International Competitiveness in addition to the strength of our IT industries, Japan has some of the world's most advanced ultra high-speed broadband (utilizing optical fiber technology, etc.) IT infrastructure and this infrastructure shall now serve as a foundation for the development of our IT society. Solving important social problems that face all humankind by making use of the unique characteristics of our nation and by	Page 132, Line 13-28The new IT strategy has been formulated based on severalprinciples, including the following ones excerpts fromhttp://japan.kantei.go.jp/policy/it/IT strategy2006.pdf:-International Contribution and the Strengthening ofInternational CompetitivenessSolving important social problems that face all humankind bymaking use of the unique characteristics of our nation and byfurther emphasizing the perspective of the consumer and citizen,we will be in a position to provide various solutions to worldproblems, and these solution models along with our power forreform can serve as areas where Japan can—and should—contribute globally. It is particularly in Japan's own interest toactively make such global contributions in the IT area focusing onthe Asia region.International contribution by providing problem-solvingmodels and contributions to other Asian countries usingITJapan is required to proactively contribute to thedevelopment of Asian economies through IT, such as the	参考 文献 を 加 え て 冗 長 な 表 現 を な く し た 修 正 の た め 、 訂 正 を 認 め る 。

we go forward with our IT revolution to put in place a ubiquitous network, we will be in a position to provide various solutions to world problems, and these solution models along with our power for reform can serve as areas where Japan can—and should— contribute globally. It is particularly in Japan's own interest to actively make such global contributions in the IT area focusing on the Asia region. International contribution by providing problem-solving models and contributions to other Asian countries using IT As one of the world's most advanced IT nation, Japan is required to take an appropriate role in international society, and its responsibility within the Asian region to which Japan belongs is significant. For this reason, Japan must strive to utilize IT to realize solutions to the important social issues facing all nations, including Asian nations, in the 21st century. As people, goods, money, services, and information begin to move more and more within the area, Japan is required to proactively contribute to the development of Asian economies through IT, such as the realization of effective and secure circulation of people, goods, money, services, and information using IT, etc.		
Page 163, Line 25 The document emphasizes following points:	Page 133, Line 3The document226emphasizes following points (excerpt fromwww8.cao.go.jp):	参考文献を明 示したため、 訂正を認め る。
Page 163, Line 26 - Page 164, Line 13 Strengthening Japan's S&T capabilities Japan has promoted Science and Technology (S&T) by setting the goal of "becoming an advanced science- and technology-oriented nation" as a national strategy. Under the circumstances, it is quite natural for Japan, the country which aims to become an "advanced science and technology-oriented nation," and has world-leading S&T, to utilize its superior S&T expertise for diplomacy in a strategic manner. Japan's past S&T diplomacy had tended to be passive and Japan often failed to fully demonstrate its leadership, shift to S&T diplomacy where Japan and takes actions actively. -Strengthening Science and Technology (S&T) cooperation with	Page 133, Line 4-16 Strengthening Japan's S&T capabilities Japan has promoted Science and Technology (S&T) by setting the goal of "becoming an advanced science- and technology-oriented nation" as a national strategy. Japan's past S&T diplomacy had tended to be passive and Japan often failed to fully demonstrate its leadership, shift to S&T diplomacy where Japan and takes actions actively. -Strengthening Science and Technology (S&T) cooperation with developing countries for resolving global issues Companies and private non-profit organizations have come to play a greater role in many areas of international cooperation. A large	る。 冗長な表現を なくした修正 のため、訂正 を認める。

developing countries for resolving global issues Japan will implement S&T cooperation with developing countries on global issues concerning global warming, infectious diseases, water/food, and disasters, according to the social needs of the relevant countries. Companies and private non-profit organizations have come to play a greater role in many areas of international cooperation. A large part of the technology directly linked to the development of developing countries, is held by private companies. Page /Line - Therefore, private companies are expected to expand their investment and provide further contributions of personnel in developing countries.	part of the technology directly linked to the development of developing countries, is held by private companies. Therefore, private companies are expected to expand their investment and provide further contributions of personnel in developing countries.	
Page 164, Line 21 Enhancement of international competitiveness by	Page 134, Line 1 Enhancement of international competitiveness ²²⁷ by	参考文献を明 示したため、 訂正を認め る。
 Page 165, Line 7-14 (2) Global innovation center While there are consumers and users in the industrial sector who demand high quality in Japan, a large number of companies and a broad range of industries which can meet such demands with sophisticated materials for parts and technologies are clustered in this relatively small country. Those companies have produced new products one after another by learning from others and through reliable joint development between upstream and downstream companies, etc., and the ability to do this is one of Japan's strengths 	削除	冗長な記述の 削除と認めら れるため、訂 正を認める。
Page 165, Line 16-18 It is recommended that the Japanese PPP take an active role in promoting and implement ITS. In such partnership framework, the customer would be the Asian public sector, for ESRs.	Page 134, Line 10-11 If Japanese PPP take an active role in promoting and implement ITS, the customer would be the Asian public sector, for ESRs.	 冗長な表現を なくした修正 のため、訂正 を認める。
 Page 165, Line 22 - Page 166, Line 7 Interests within PPP2P, where Public Interest and Profit meets The difference of interests might turn into conflict between the public sector aiming at the public good and the private sector seeking profit but: While the profit motive drives the Japanese private sector, profits can be realized in a context that is consistent with the Asian public goal to provide ESRs. Most Japanese private sector organizations recognize both the business opportunity and the Asian public benefits regarding ITS. 	削除	冗長な記述の 削除と認めら れるため、訂 正を認める。

 Considering the estimated public benefits that will be achieved through ITS deployment, and if the Asian public sector can help clear the way for private sector success, then the Japanese private sector success can help advance public sector objectives for a safer and efficient transport infrastructure. Each purchase of Japanese ITS products or services, whether by Asian users or public sector, brings value to Asian society, with 		
 benefits extending beyond the purchaser. Page 166, Line 8-22 The evidence from the ITS development strategy in Japan suggests that, in order to reap the benefits of ITS, it is necessary to involve the full range of actors in the PPP2P. In the case of ITS, the relative success is correlated to partnership implementation—in such a way that each has specific roles and responsibilities. In the case of Japanese PPP, collaboration occurs between the government and private enterprises in Japan. In the case of PPP2P, the Japanese PPP collaborates with an Asian government. The parties involved in PPP2P and their efforts can be summarized as follows: PPP between the Japanese public and Japanese private sectors Collaboration between the government of Japan and the Asian state In order to promote PPP2P, PPP2P projects require significantly high reliability in terms of both Japanese and Asian government commitment. 	 Page 134, Line 15-24 The evidence from the ITS development strategy in Japan put forward that, it should involve all actors in the PPP2P. In the case of ITS, the relative success is correlated to partnership execution where each has specific responsibilities. For the Japanese PPP, cooperation occurs between the public and private sectors in Japan. In the case of PPP2P, the Japanese PPP collaborates with an Asian government as follows: PPP between the Japanese public and Japanese private sectors Cooperation between the Japanese private sector and the Asian state In order to promote PPP2P, PPP2P projects require both Japanese and Asian government significant commitment. 	冗長な表現を なくした修正 のため、訂正 を認める。
Page 166, Line 24-28 In 1954, Japan began providing international assistance in the form of economic cooperation. Consisting mainly of loans, grants aid and technical cooperation, Japan has contributed to capacity development and to economic development in Asia, as a priority region, with infrastructure development such as improvement of transportation infrastructure as one of the priority tasks.	Page 135, Line 1-5 JICA, in 1954, began providing international assistance in the form of economic cooperation. Consisting mainly of loans, grants aid and technical cooperation, Japan through JICA has contributed to capacity development and to economic development in Asia, as a priority region, with infrastructure development such as improvement of transportation infrastructure as one of the priority tasks ²²⁸ .	参考文献を加 えて明確な表 現にした修正 のため、訂正 を認める。
 Page 167, Line 5-13 Regarding ITS, Japan's financial assistance to Asia could highlight ESRs projects as a development priority. include road safety components in grants for health and programs. promote the ITS-based ESRs. 	 Page 135, Line 10-17 Regarding ITS, Japan's financial assistance to Asia could highlight ESRs projects as a development prime importance. require road safety modules for allowances encourage ITS-based ESRs. support research, programs and policies related to ITS. 	明確な表現へ の修正のた め、訂正を認 める。

 support research, programs and policies related to ITS. make funding for transport infrastructure projects conditional on ITS implemented If ITS components are invested in at the same time as road construction, it would be also possible to apply for further loans for ITS within the ESRs loans. 	 make financing for transport projects conditional to ITS implementation provide, if ITS components are included in road construction, further loans for ITS should be made within the ESRs loans. 	
 Page 167, Line 15-22 Lack of expertise in ITS in developing countries may be a result of: a perception that ITS is only for developed countries. impression that ITS is a high-cost system deployed only in developed countries using the latest technology. Some transport senior policymakers in developing countries are even unaware of or even misunderstand ITS. Policy makers in developing countries should know (more) about ITS benefits, recognize (and select) the ITS applications that could be deployed and provide the greatest return on investment, in terms of money saved and services. 	 Page 135, Line 19-26 Lack of expertise in ITS in developing countries may be a result of: a perception that ITS is only for developed countries. perception that ITS is a too costly system to be installed for developed countries and using the most sophisticated technology. Some transport senior policymakers in developing countries are even unaware of or even misunderstand ITS. Policy makers in developing countries should know (more) about ITS benefits, recognize (and select) the ITS applications that could be deployed and offer return on investment, especially money saving and services. 	明確な表現へ の修正のた め、訂正を認 める。
Page 167, Line 23 - Page 168, Line 5 Introducing ITS is a complex undertaking, and decision makers have to understand the prerequisites for deploying ITS before their decisions are made. Japan's PPP2P, through technical cooperation, could help such ITS endeavor. Deploying ITS requires a variety of knowledge and skills beyond those used in traditional construction of road and public transport infrastructure. Planners in developing countries should have both the traditional and the ITS skills and knowledge for an ITS-enabled transportation infrastructure. Indeed, having both sets of skills and knowledge makes it possible for planners to understand and handle the interaction between traditional and ITS-enabled transportation and to develop them together. Japan can not only contribute with the required ITS skills and knowledge, beyond those used in traditional construction of road and public transport infrastructure, but also can play the role of system integrator through PPP2P in Asia.	Page 135, Line 26 - Page 136, Line 10 For the World Bank ²³⁰ , "introducing ITS is a complex undertaking, and decision makers have to understand the prerequisites for deploying ITS before their decisions are made. Japan's PPP2P, through technical cooperation, could help such ITS endeavor. Deploying ITS requires a variety of knowledge and skills beyond those used in traditional construction of road and public transport infrastructure. Planners in developing countries should have both the traditional and the ITS skills and knowledge for an ITS-enabled transportation infrastructure. Indeed, having both sets of skills and knowledge makes it possible for planners to understand and handle the interaction between traditional and ITS-enabled transportation and to develop them together". Japan can not only contribute with the required ITS skills and knowledge, beyond conventional construction of public road and other transport infrastructures, but also can play the role of system integrator through PPP2P in Asia.	参示を用化表の変え、「「「」の「」ので、「」の「」ので、「」の「」ので、「」ので、「」ので、「」の
Page 168, Line 7-20 Japanese public sector initiated and created a new ITS market for Japanese consumers who widely adopted it. ITS in Japan is expected to play a primary role in expanding and in creating new markets for the auto and communication-related industries. Japanese electronic	Page 136, Line 12-20 Japanese public sector initiated and created a new ITS market for Japanese consumers who widely adopted it. ITS in Japan is expected to create new markets for the auto and communication-related sectors. Beside the already developed ITS applications (VICS,	冗長な表現を なくした修正 のため、訂正 を認める。

equipment manufacturers seized on the strategic opportunity VICS program represented to become worldwide market leaders in the manufacture and sales of in-vehicle navigation devices. Beside the already developed ITS applications (VICS, ETC ¹⁶⁸ , car navigation), pre-crash safety systems are in the pipeline. Global competition and national business interest are the driving forces for Japanese engagement in ITS. Japan believes that ITS is an opportunity to advance its industrial and trade interests, both locally and globally. Japan state it wanted to use ITS as engine for next generation info-communication industries: the developments of ITS/Telematics-related sectors should create global markets for their products/services.	ETC ²³¹ , car navigation), pre-crash safety systems is in the pipeline. Global competition and national business interest are the driving forces for Japanese engagement in ITS. Japan believes that ITS is an opportunity to spread its technological and business interests, both locally and globally. Japan stated it wanted to use ITS as engine for next generation info-communication industries: the developments of ITS/Telematics-related sectors should create global markets for their products/services.	
Page 168, Line 24-27	Page 136, Line 24-27	参考文献を明
Japan could provide loan and/or grant aid in relation to necessary	Japan could provide loan and/or grant aid in relation to necessary	示したため、
equipment and materials for the construction of transportation	equipment and materials for the construction of transportation	訂正を認め
infrastructure: funds will go to the procurement of Japanese ITS	infrastructure: funds will go to the procurement of Japanese ITS products/services ²³² .	る。
products/services. Page 169, Line 14-15	Page 137, Line 13-14	綴り修正のた
• Japanese funds, available for both the Japanese private	• Japanese funds, available for both the Japanese private	殿り修正のた め、訂正を認
sector and Asian public sector, e.g. through the use of	sector and Asian public sector, e.g. through the use of	め、訂正を認 める。
Oversas Development Aid (ODA)	Overseas Development Aid (ODA)	$\langle \rangle \rangle_{\circ}$
Page 169, Line 18-19	Page 137, Line 17-18	参考文献を明
• Experiences in developed countries can serve as the basis for	• "Experiences in developed countries can serve as the basis for	示し、引用符
successful ITS deployment in developing countries.	successful ITS deployment in developing countries ²³³ "	を挿入して引
	(www.worldbank.org).	用箇所を明確
		化した修正の
		ため、訂正を
		認める。
Page 169, Line 20 - Page 170, Line 22	Page 137, Line 19 - Page 138, Line 13	冗長な表現を
From an Asian (Public sector) perspective, two immediate issues	From an Asian (Public sector) perspective, two immediate issues	なくした修正
might appear:	might appear:	っため、訂正
• Financial issue: the importance of investing in ITS may not be	Financial issue	を認める。
apparent in countries where finances are constrained.	• Partnership issue: institutional lack of cooperation between	
• Partnership issue: institutional lack of cooperation between	different ministries within an Asian government as it is usually	
different ministries within an Asian government as it is usually	the case about ITS	
the case about ITS	The Asian public sector can do the following:	
The Asian public sector can do the following:	Making ITS Part of Transport Policy for ESRs and thus a political priority. Deploying ITS through ESRs has many direct	
• Making ITS Part of Transport Policy for ESRs and thus a	political priority. Deploying ITS through ESRs has many direct	

 political priority. Deploying ITS through ESRs in developing countries has many direct and indirect benefits for the country as a whole. Set appropriate road safety targets and establish national road safety plans to achieve them. Ensure that road safety considerations are embedded in new projects and in the evaluation of transport policies and plans. Japanese ITS contribution would be proposed as follows: identify a lead agency or create an ITS organization to guide the national ESRs effort. assess the human and financial issues, policies and partnership settings. prepare a national ITS ESRs strategy and plan of action. possibly allocate financial and human resources to address the issues. implement specific ITS actions to prevent road traffic crashes, minimize injuries and their consequences. From a general perspective, as analyzed for ITS in Japan, the same apply to global ITS: there are a variety of institutional and technology. 	 prevent road traffic crashes and minimize injuries through selected ITS actions From a general perspective, as analyzed for ITS in Japan, the same apply to global ITS: there are multiple institutional and technology requirements for successful introduction of ITS but transportation challenges are institutional not technological. ITS has to become part of safe transport policy globally to build a consensus around ITS among PPP2P. If nothing is done, WHO predicts that by 2030, road traffic injuries to rise eighth place by
national ESRs effort.	• prevent road traffic crashes and minimize injuries through
settings.	From a general perspective, as analyzed for ITS in Japan, the same
• possibly allocate financial and human resources to address the	requirements for successful introduction of ITS but transportation
• implement specific ITS actions to prevent road traffic crashes,	ITS has to become part of safe transport policy globally to build a
From a general perspective, as analyzed for ITS in Japan, the same apply to global ITS: there are a variety of institutional and technology	
prerequisites that need to be put in place for the successful introduction of ITS. Most of the challenges which transportation	
faces relate less to technology than to institutional innovative	
flexibility. Promoting ITS to become part of transport policy on the levels of	
projects locally and globally to build a consensus around ITS among	
PPP2P. The World Bank estimates that, if fatality rates per vehicle in poorer countries were reduced by 30% by 2020, more than 2.5	
million lives could be saved, and 200 million injuries avoided. If	
nothing is done, WHO predicts that by 2030, road traffic injuries are	
predicted to rise from tenth place in 2002 to eighth place by 2030.	

Chap VII New Industry

訂正後	訂正理由と内
的正夜	容・訂正を認
	お正を認めた理由
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	参考文献を明
	示し、引用が
	明確になるよ
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luction of innovation ²³⁵	認める。
	参考文献を明
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preneurial agent in the creation of and influencing private	
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icentive for economic development by assembling and	
	参考文献を明
	示し、引用が
	明確になるよ
	うに修正した
	ため、訂正を
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1 1	
communications have succeeded ²⁴¹ .	
TS has been promoted by the U.S. and Europe, with	
considerable resources. In this respect, ITS brings a	
lynamic and intense <u>worldwide</u> competition in the	
echnological development. Japan should seize this	
opportunity to take the lead in the global arena through	
	訂正後 139, Line 5-9 mpeter ²³⁴ considers innovation as both creator and destroyer of e industries, noting that innovation leads to "creative uction". In this regard, from his perspective (on government cies as entrepreneurial agents), an entrepreneurial intervention the public sector in certain industries could proceed with the duction of innovation ²³⁵ . 139, Line 19-25 chenkron ²³⁷ introduced the notion of the government as an preneurial agent in the creation of and influencing private r's markets. Gerschenkron suggests that government preneurship is required as a substitute for an absence of preneurial activities from the private sector. Gerschenkron ²³⁸ ves that Government could bring out entrepreneurial functions neentive for economic development by assembling and mixing the use of industrial and financial assets to the advantage ivate sector. 140, Line 3-14 prehensive Plan for ITS in Japan ^{u239} (excerpt from <u>itsforum.gr.jp)</u> It is expected that developments in ITS-related automobile and high-tech sectors will have substantial ripple effects on the Japanese economy for new business creation ²⁴⁰ . ITS is expected to develop into the multimedia mobile communications technology with huge market potential in the 21st century, with success of ITS-related businesses resulting from creation of applications, just as mobile communications have succeeded ²⁴¹ . ITS has been promoted by the U.S. and Europe, with considerable resources. In this respect, ITS brings a dynamic and intense <u>worldwide</u> competition in the technological development. Japan should seize this

 development and international standardization. Japan should seize this opportunity to take the lead in the international arena through ITS promotion Page 172, Line 17-31 New IT Reform Strategy Turning to industrial competitiveness, Japan internationally dominates in the technical areas of mobile communications and RFID tags, etc. It is now necessary to use industries where we already have a technical advantage, and at the same time further improve business efficiency to establish an upward growth cycle through IT-related industries that have the capability of creating new added-values. I in addition to the strength of our IT industries, Japan has some of the world's most advanced ultra high-speed broadband (utilizing optical fiber technology, etc.) IT infrastructure and this infrastructure shall now serve as a foundation for the development of our IT society. It is necessary to promote reforms for industrial structures through the establishment of IT-based management that will serve to help maintain and strengthen our international industrial competitiveness in such a way as to create a state where, instead of struggling to catch up, Japan is rather leading the world. 	 Page 140, Line 15-24 New IT Reform Strategy²⁴³ (excerpt from http://japan.kantei.go.jp/policy/it/TTstrategy2006.pdf) Turning to industrial competitiveness, Japan internationally dominates in mobile communications and RFID tags, etc. It is necessary to use industries where we already have a technical advantage, for creating new added-values. Japan has some of the world's most advanced IT infrastructure which shall serve for the development of our IT society. It is necessary to reform industrial structures that will maintain and strengthen our international industrial competitiveness in such a way as to create a state where Japan is leading the world.	参考文献を加 えて冗長な表 現をなくした 修正を認め る。
 Page 174, Line 11-13 Beside the infrastructure dimension of ITS, the automotive industry is also involved in the vehicle aspect dimension of ITS, such as navigation and pre-crash systems. 	 Page 142, Line 8-9 Beside the infrastructure aspect of ITS, in the vehicle aspect of ITS, the automobile industry made contributions such as precrash systems. 	明確な表現へ の修正のた め、訂正を認 める。
Page 174, Line 25 - Page 175, Line 2 Case studies of both ITS and Telematics reveal that there are a limited number of business models that have been economically viable success. Lessons learned from the deployment of ITS/Telematics indicate the following partnership models are among the most effective: VICS in Japan and OnStar in the US.	Page 142, Line 21-23 ITS and Telematics cases tell of limited successful business models. Lessons learned from the deployment of ITS/Telematics shows the following partnership models are successful: VICS in Japan and OnStar in the US.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 175, Line 6-10 ITS/Telematics encompasses players such as the communications industry, content providers and electronics equipment manufacturers in addition to the automotive industry. Other industries are likely to be involved as well as third party services suppliers in providing a range of commercial services. Third party private service providers	Page 143, Line 1-4 ITS/Telematics encompasses players such as the telecommunications, content and consumer electronics in addition to the automotive industries. Other industries are likely to be involved as well as 3rd party private services providers in supplying several commercial services to both drivers and passengers.	冗長な表現を なくした修正 のため、訂正 を認める。

will have access to vehicle drivers and passengers for service		
provision.		
Page 175, Line 11-20 All persons who move are potential ITS market targets; public transport users, drivers, passengers and even pedestrians can be concerned with ITS development. This results in potentially very large market for different industrial activities and services, mostly in telecommunications, computer, electronics and automotives domains. They intervene in all domains of ITS to offer services such as information, navigation and guidance systems, safe driving assistance systems, infrastructure managing assistance systems, e-ticketing and e-tolling systems, fleet and freight management assistance systems. Transactions such as processing of electronic payment for goods and services, downloading a movie, or providing travel information, present interesting new opportunities for business relationships and sales.	Page 143, Line 5-10 For <u>www.ertico.com</u> , "all persons who move are potential ITS market targets; public transport users, drivers, passengers and even pedestrians can be concerned with ITS development. This results in potentially very large market for different industrial activities and services, mostly in telecommunications, computer, electronics and automotive domains. ²⁴⁴ . They intervene in all domains of ITS to offer services" ²⁴⁵ new business opportunities for building relationships and increasing sales.	参考文 引用 う し、 引 用 行 う 行 が た の た し、 な く し 、 し て 明 備 に 、 し て 引 用 の し て 引 用 の し て 引 の の し て 引 の の の の の の の の の の の の の の の の の の
Page 175, Line 21-28 The vehicle manufacturers have a particular place in this group because they produce a final product, the vehicle. As primary stakeholder, the car makers may be offering a range of services to drivers/users. Additionally, because many of the applications require that the information be passed along a communications network, ITS will generate, as secondary stakeholder, leadership as well to the communications industry. Indeed, by enabling the acquisition of data from and the transmission of information to vehicles, ITS opens a wide array of business opportunities for additional services and products.	Page 143, Line 11-16 The car makers have key role they deliver the final product, the vehicle. As primary stakeholder, the car makers may be offering a range of services to drivers/users. As secondary stakeholder, the communications industry would benefit from applications requiring related information to go through communications network. Indeed, by enabling the acquisition and transmission of information to vehicles, ITS opens new business opportunities for new services and new products.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 176, Line 2-5 Japanese companies have increasingly been establishing in-house sections in charge of ITS/Telematics in order to handle business related to ITS/Telematics. ITS/Telematics offers a means of adding new functions and values to their products or improving the quality of the products themselves.	Page 143, Line 18-21 Japanese companies have increasingly been establishing in-house sections in charge of ITS/Telematics in order to handle business related to ITS/Telematics. ITS/Telematics offers opportunities of developing new applications, values and quality to their services/products.	明確な表現へ の修正のた め、訂正を認 める。
Page 176, Line 12-19 Harvard's Porter ¹⁷³ describes an emerging industry as an industry without the normal set of rules established. Actors entering an emerging industry often face the dilemma of having to compete and cooperate with the other participants at the same time: "coopetition" is inevitable and takes place since everyone wants to ensure that they control the best position for the future while partnership on the other	Page 144, Line 1-7 Harvard's Porter ²⁴⁶ describes an emerging industry as an industry without the normal set of rules established: "Actors entering an emerging industry often face the dilemma of having to compete and cooperate with the other participants at the same time: "coopetition" is inevitable and takes place since everyone wants to ensure that they control the best position for the future while partnership on the other	参考文献を明 示し、引用 が す が た の れ し た め 、 訂 正 を を 、 引 用 符 引 用 の で 引 用 の し て 引 用 の し て 引 用 の し て 引 用 の し て 引 用 の し て 引 用 の し て 引 用 の で あ た の で あ の し て 引 用 の で あ た の で あ の た の で あ た の で あ た の で あ の た の で の で の で の で の で の で の で の で の の で の の で の の で の の の で の で の で の で の の で の の で の の の の の で の の で の の の の で の の で の の の の の で の で の の の の の で の の で の の の の で の の で の の の の の で の の の の の の の の の の の の の

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hand might arise since all the participants want to promote the new	hand might arise since all the participants want to promote the new	認める。
industry and its products. In such "coopetition" context, everyone	industry and its products. In such "coopetition" context, everyone	
benefits from a growth for the industry as a whole.	benefits from a growth for the industry as a whole" ²⁴⁷ .	
Page 177, Line 1-2	Page 144, Line 15	長い名称を省
7.2.2 ITS-based (with PPP) study case: Japan's Vehicle	7.2.2 ITS-based (with PPP) study case: Japan's VICS	略名に変更し
Information and Communication System (VICS)		たため、訂正
		を認める。
Page 177, Line 3-5	Page 144, Line 16-18	明確な表現へ
The study case analyzes the role of the Japanese public sector in	The study case analyzes Japanese public sector role in introducing	の修正のた
introducing advanced technologies through ITS with the support and	advanced technologies through ITS with the support and	め、訂正を認
coordination of the ITS related industries (vehicle, telecom network,	coordination of the ITS related industries (vehicle, telecom network,	
devices, services).	devices, services).	める。
Page 177, Line 19-24	Page 145, Line 4-6	冗長な表現を
VICS has been in service in Japan since April 1996, and operates on	VICS has been operating since April 1996 on highways and main	なくした修正
highways and main roads throughout the country. The development	roads throughout Japan. The VICS began with a feasibility study in	のため、訂正
of VICS began with a feasibility study concluded in 1994 that set out	1994 that lay out the basics for the program, usage, benefits and	
the basic ideas for the program, projections of usage, benefits and	costs, and institutional approach.	を認める。
costs, and a description of the institutional approach to deployment.	·····, ····· ·························	
The feasibility study projected that most of all four-wheel vehicles		
would be equipped with VICS devices capable of real time route		
guidance.		
Page 178, Line 2-13	Page 145, Line 8-19	明確な表現へ
The government was crucial in initiating the VICS program through	The government was crucial in initiating the VICS program through	の修正のた
the public-private partnership in the specifications of uniform	the public-private partnership in the specifications of communication	め、訂正を認
communication protocols, and the development of a nationwide	protocols, and the development of a countrywide traffic digital	
traffic digital database.	database.	める。
This public-private partnership initiated by the public sector has been	This public-private partnership initiated by the public sector has	
decisive in the success of VICS. The main reason behind the success	been decisive in the success of VICS. The main reason behind the	
of the VICS is the division of responsibilities between the public and	success of the VICS is the division of responsibilities between the	
private sectors. These sectors agreed upon what was for the most part	public and private sectors. These sectors decided the appropriate	
a natural division of roles and tasks. In essence, VICS was organized	division of roles and tasks. In essence, VICS was organized through	
through the cooperation of various tasks, as follows:	the management of various tasks, as follows:	
Public sector	Public sector	
• equipment on the road infrastructure		
	• equipment for road infrastructure	
	 equipment for road infrastructure information collection (road operators and the police) 	
 information collection (road operators and the police) 	• information collection (road operators and the police)	
information collection (road operators and the police)information processing (private bodies under government	information collection (road operators and the police)information processing (private bodies but under government	
 information collection (road operators and the police) 	• information collection (road operators and the police)	明確な表現へ

 success factor for VICS has been the nationwide installation of beacons along the roadside. The government assumed the technical and financial responsibility in implementing radio and optical beacons to provide two-way communication with the in-vehicle devices without requesting for financial compensation in order to boost private sector involvement in car navigation systems. In order to promote user acceptance, the public sector provided simultaneously traffic detection and surveillance information, channeled to the VICS center, and up-date traffic information (from the VICS center) to the vehicles. 	 installation of beacons. The public sector assumed the technical and financial responsibility in implementing radio and optical beacons to offer 2- wayscommunication within-vehicle devices without requesting for financial compensation in order to boost private sector involvement in car navigation systems. In order to promote user acceptance, the public sector provided simultaneously traffic surveillance information, directed to the VICS center, and up-date traffic information (from the VICS center) to the vehicles. 	め、訂正を認める。
 Page 179, Line 8 - Page 180, Line 2 They were respectively responsible for traffic control, highway administration and telecommunications. Compared to public-private partnerships, partnerships between public agencies have more constraints. Indeed, while businesses will not make initial arrangements for the projects where they do not see profits, initial partnering process between public agencies are often stimulated by political or other various external factors. Although the VICS partnership between public-private players was relatively smooth, there was some technological competition between these three public institutions regarding communication media. VICS makes use of three communication technologies: FM multiplex broadcasting, radio-waves and optical beacons to provide drivers with real time traffic information. The reason for multiple media usage is political; as vehicle communication system (AMTICS). The NPA system integrated the optical beacon function with optical traffic sensors not only for information provision, but also for information function used by on-demand Dynamic Route Guidance (DRGS), part of Universal Traffic Management Systems (UTMS). Ministry of Construction (MOC) with Road/Automobile Communication System (RACS). The MOC, responsible for road construction and traffic administration on motorways, intended to use radio beacons as a platform for extended services including, e.g., Electronic Toll Collection (ETC) system with Dedicated	 Page 146, Line 15-27 They were respectively responsible for traffic control, highway administration and telecommunications. In contrast to public-private partnerships, public agencies partnerships have more limitations as mostly motivated by political factors. Although the VICS partnership between public-private players was relatively smooth, there was some technological competition between these three public institutions regarding communication media. VICS makes use of three communication technologies: FM broadcasting, radio waves and optical beacons. The reason for 3 different media implementation is political: vehicle communication R&D had been initiated autonomously by National Police Agency (NPA) with Advanced Mobile Traffic Information and Communication System (AMTICS). Ministry of Construction (MOC) with Road/Automobile Communication System (RACS). 	冗長な表現を なくした修正 のため、訂正 を認める。

Short Range Communication (DSRC) which has also a two-way communication.		
Page 180, Line 11-19	Page 147, Line 7-11	冗長な表現を
Because Police in Japan is legally responsible for traffic regulations	As traffic information is a public matter, the VICS Center began	
and enforcement, the National Police Agency developed the digital	online supply of information to private service users. It was expected	なくした修正
database for traffic regulations containing restrictions on maneuvers	that the private sector will actively participate in this traffic	のため、訂正
such as turn prohibitions and u-turns.	information market. Indeed, Japan has many private companies	を認める。
As traffic information provision is a public matter, competition has	issuing private maps containing localized information while the road	
been applied: the VICS Center began online supply of source	maps are supplied by the public sector.	
information to private information service. It was expected that the	maps are supplied by the public sector.	
private sector will actively participate in this traffic information		
market. Indeed, Japan has private companies issuing quite detailed		
(large scaled) maps containing information concerning residents,		
offices, shops, etc., not unlike the case of road maps where the		
fundamental map is supplied by the public sector.		
Page 180, Line 24 - Page 181, Line 8	Page 147, Line 15-17	冗長な表現を
Japan has been extremely successful in deploying a nationwide	A critical success factor in the sales of car navigation in Japan has	なくした修正
traveler information system capable of providing information for real	been economy of scale which translated into price reductions.	のため、訂正
time route guidance. There has been a consistent growth in the sales	Although car navigation is optional, built-in car navigation for new	を認める。
of car navigation systems.	cars is becoming standard vehicle equipment in Japan.	るもうろう
A critical success factor Japan has been scale economies and		
reasonable unit costs of manufacturing. If VICS had been not		
employed on a national scale, it was unlikely that has resulted the		
equipment manufacturers would have found it economically feasible		
to participate in the project. Indeed, among other reasons for such		
rapid popularization of VICS is large production of car navigation		
units that has resulted in price reductions. Although car navigation		
units are provided as an option for most new cars, there are more		
built-in car navigation units than those installed after purchase: it is		
gradually becoming standard automobile equipment in Japan.		
Page 181, Line 10-21	Page 147, Line 19-24	冗長な表現を
The Japanese deployment of VICS has used a public-private	VICS has used a public-private "partnership-business model". The	なくした修正
"partnership-business model". The private sector was able to capture	government collected contributions from the manufacturers of VICS	のため、訂正
the willingness of the drivers to pay for equipment that can help save	in-vehicle equipment and infrastructure. Private sector contributions	を認める。
travel time by providing real time route guidance given traffic	funded the operating cost of the VICS Center. The private sector was	-
conditions on the network and by furnishing navigation information	in charge of the marketing of the VICS initiative. VICS users pay	
such as parking availability.	both implicitly license fees to the VICS Center, including the on-	
The government collected contributions from the manufacturers of VICS in valuable againment and infrastructure based on the local of	board terminal price.	
VICS in-vehicle equipment and infrastructure based on the level of affinity, investments and fees from participants in the VICS program.		
anning, investments and rees from participants in the vics program.		

 Private sector contributions financed the operating cost of the VICS Center and the manufacture of in-vehicle devices. The private sector was also responsible for the development and marketing of the VICS initiative. VICS users implicitly pay license fees to the VICS Center, hidden in the price of on-board equipment. Page 181, Line 23 - Page 182, Line 6 Important to note, Japanese consumers have traditionally been early adopters of new technology-based products and services. Japan's complex and congested road system has made these technologies particularly attractive to the driving public. The "partnership-business model" was predicated upon users in Japan being willing to purchase in-vehicle devices capable of delivering real time traffic information to the driver regarding the congested highway network in Japan and parking availability in the largest cities. As VICS was intended to facilitate smoother and safer movement of traffic on the Japanese roadway network, Japanese drivers have strong demand for a route guidance system using map presentation because of the nation's complicated road system. The high levels of congestion have contributed as well to the market success. 	Page 148 /Line 2-7 Important to note, for the World Bank, "Japanese consumers have traditionally been early adopters of new technology-based products and services. Japan's complex and congested road system has made these technologies particularly attractive to the driving public" ²⁴⁹ . The "partnership-business model" was based upon drivers purchasing in-vehicle devices delivering real time congested traffic information and parking availability.	参示を用化表ため、 参し、 入し が が に 現 修 、 な の た 認 め る。
 Page 184, Line 16-24 Under the leadership of GM's CEO Richard Wagoner, General Motors developed an e-business strategy that focused on: 1-business-to-consumer (B2C) e-commerce, related to its online shopping service, called BuyPower. 2-business-to-business (B2B) e-commerce, online parts-buying enterprise called Covisint, By combining the first and second parts, General Motors believed it would have the ability to create a Web-based service whereby customers could purchase cars online, have them built to order, and delivered within days. 	 Page 150, Line 18-25 Under the leadership of Richard Wagoner CEO, GM developed an e- business strategy as follow: 1- B2C business-to-consumer e-commerce, related to its online shopping service, called BuyPower. 2- B2B business-to-business e-commerce, online parts-buying enterprise called Covisint. "By combining the first and second parts, General Motors believed it would have the ability to create a Web- based service whereby customers could purchase cars online, have them built to order, and delivered within days"²⁵⁰. 	参示を用化表ため、 考し、利価で、 大の一個で、 が、 が、 が、 で、 の で、 の で、 の で、 の で、 の で、 の で、 の し 、 な の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で 、 な の の で こ む 。 、 る の の の で 、 な の の で 、 な の の で 、 な の の で し で し で の で の で し で の で の で の で の で の で る の の で の で る の る の 。 の る の る の の で る る の の で る の る の の で る の る の る の の の で る る の る の る の の で る る の る の で る る の る の る の る の っ の で る つ で る る の る つ で る つ で る る の る の る つ で る つ で る つ で る つ で る つ で る つ で る つ る つ で ろ つ の つ で ろ つ の つ の つ で ろ つ の つ で ろ つ の つ つ つ つ つ つ つ つ つ つ つ つ つ
Page 185, Line 1-13 Post-Crash Notification System (PCNS) In a crash, the vehicle's OnStar Telematics module that provides communications between the vehicle and OnStar Call Center, calls OnStar for help. Once a connection is successfully established, a data transmission exchange occurs between the vehicle's Telematics module and OnStar Call Center. The crash information transmitted summarizes key sensor metrics: vehicle location; whether front and/or side airbags deployed; whether there were multiple impacts; whether there was a rollover (when specific rollover sensing is	削除	冗長な記述の 削除と認めら れるため、訂 正を認める。

available); as well as the impacts. Such critical information can allow		
subjective interpretations such as the probability of severe injuries,		
the resources required at the scene of the accident and the medical		
facility best-suited to treat the victim(s).		
OnStar "advisors" immediately communicate with the vehicle		
occupants via the established connection to gather additional		
information.		
Page 185, Line 16-23	Page 151, Line 3-10	旧体わ主祖。
As GM could not build internally all the needed components for	As GM could not build internally all the needed components for	明確な表現へ
		の修正のた
OnStar, alliances were needed. General Motors established a network	OnStar, alliances were needed. General Motors established	め、訂正を認
of key partnerships with several companies across a number of	partnerships with a number of companies across different industries.	める。
industries. OnStar was founded as a collaborative venture among	OnStar was established as a joint venture among GM, EDS, Hughes	
GM, EDS, Hughes and Delco. Each of the founding companies	and Delco: each contributing with a particular expertise to the	
brought a specific area of expertise to the enterprise. GM brought	initiative. GM initiative contributed with vehicle production,	
vehicle production, distribution, sales, service, and financing system.	distribution, sales, service, and financing system. EDS contributed	
EDS brought information management and customer service	with customer information management and service technologies;	
technologies; Hughes brought communications and satellite	Hughes brought telecommunications including satellite technology,	
technology, and Delco vehicle hardware.	and Delco vehicle hardware.	
Page 185, Line 24-28	Page 151, Line 11-15	参考文献を明
This partnership strategy confirms Hax System Lock-in option:	This partnership strategy confirms Hax System Lock-in option:	示し、引用符
adoption of new services/products is affected by the presence/absence	adoption of new services/products is "affected by the	を挿入して引
of complementary products. In the network economy, firms rarely act	presence/absence of complementary products. In the network	用箇所を明確
alone in creating new services. For Hax "Do not play the game alone.	economy, firms rarely act alone in creating new services" ²⁵¹ . For	化した修正の
Seek complementors, partners, and network effectto create value"	Hax "Do not play the game alone. Seek complementors, partners,	ため、訂正を
	and network effectto create value"	
		認める。
Page 186, Line 1	Page 151, Line 16	軽微なエディ
Vehicle-Medical sector Partnership	Vehicle-Medical Sector Partnership	トリアル修正
		のため、訂正
		を認める。
Page 186, Line 5-17	Page 151, Line 20-25	冗長な表現を
The stated objective of the ComCARE Alliance is "to encourage and	The stated objective of the ComCARE Alliance is to promote	なくした修正
facilitate cooperation across professional, jurisdictional, and	coordinated approach to emergency services ²²⁵³ . ComCARE and	
geographic lines, seeking to break down the walls that separate these	OnStar co-sponsored the National Mayday Readiness Initiative	のため、訂正
agencies and professions and limit their effectiveness. Our goal is to	(NMRI) ²⁵⁴ , supported by USDOT funds.	を認める。
promote a coordinated approach to emergency services ¹⁷⁶ .	ComCARE produced a consensus on crash data and communicated	
ComCARE and OnStar co-sponsored the National Mayday Readiness	it to all the major US-based automobile companies in 2002.	
Initiative (NMRI) ¹⁷⁷ , supported by USDOT funds.	n to an me major 0.5-based automobile companies in 2002.	
ComCARE produced a consensus on crash data and communicated it		
Comerate produced a consensus on crash data and communicated it		

to all the major US-based automobile companies in 2002. OnStar said they would provide emergency data to response agencies, but advocated a standardization of the data set that would be used to move information from them to emergency agencies. OnStar asked ComCARE to facilitate that process: over 20 public and private organizations participated and developing a standardized Vehicular Emergency Data Set (in XML) for use in vehicle emergencies. Page 186, Line 18	Page 151, Line 26	軽微なエディ
Vehicle-Vehicle makers Cooperation	Vehicle-Vehicle Makers Cooperation	トリアル修正 のため、訂正 を認める。
Page 186, Line 19-30 OnStar became available only in General Motors vehicles. After intense internal strategy discussion, GM decided to offer OnStar to some of its competitors by arguing that OnStar could turn competitors into partners, to the benefit of both, and keep competitive information secure. GM would realize significant economies of scale by signing up additional customers. Rivals would get a way to add customer value and enhance brand loyalty without having to take an enormous hit to their own bottom lines by developing their own systems. It created a unique partnership between the OnStar and the existing parent company, GM, which allows OnStar unprecedented autonomy to reach out to competitors and broaden its customer base. Today, OnStar provides its service to Audi, Isuzu, Acura, Volkswagen, and Subaru cars, in addition to GM's own lines. General Motors also signed deals with Honda and Toyota.	Page 151, Line 27 - Page 152, Line 7 OnStar became available only in General Motors vehicles. After intense internal strategy discussion, GM decided to offer OnStar to some of its competitors by arguing that "OnStar could turn competitors into partners, to the benefit of both, and keep competitive information secure. Rivals would get a way to add customer value and enhance brand loyalty without developing their own systems. It allows OnStar unprecedented autonomy to reach out to competitors and broaden its customer base. Today, OnStar provides its service to Audi, Isuzu, Acura, Volkswagen, and Subaru cars, in addition to GM's own lines" ²⁵⁵ . General Motors also signed deals with Honda and Toyota.	参考し、引用 うして うして うして うして うして うして うして うして
 Page 187, Line 2-15 As the first system of its kind to be offered, the implementation of postcrash application provides OnStar and GM with a competitive advantage and as powerful differentiator in marketplace. It results from extensive knowledge of telematics, vehicle crash dynamics, electronics systems, and human safety research developed over years. This multi-disciplinary expertise of the Post-Crash Safety (PCS) development team coupled with aggressive business strategies allowed leadership in this emerging telematics industry. At the announcement by General Motors and OnStar of their decision to deploy Post-Crash Safety (PCS) capability, Dr. Jeffrey Runge¹⁷⁸, a prominent emergency physician expressed "I'd like to express my appreciation to GM for taking this step. I look forward to the day 	Page 152, Line 9-18 As the first in in the market, the post-crash application offers OnStar and GM a competitive advantage and differentiator. It delivers extensive knowledge of telematics , vehicle crash, electronics systems, and safety trough research developed over years. This multi-disciplinary know -how coupled with business strategies allowed leadership in this emerging telematics industry. When General Motors and OnStar announced the decision to install Post-Crash Safety (PCS) capability, Dr. Jeffrey Runge ²⁵⁶ , a prominent emergency physician expressed "I'd like to express my appreciation to GM for taking this step. We need someone to step forward and demonstrate that it can be done. Thank you, GM, for taking the industry lead."	冗長な表現を なくした修正 のため、訂正 を認める。

when all cars are equipped with devices that give responders the right information – at the right time – to save lives. But before we can get this technology into all cars, we need someone to step forward and demonstrate that it can be done. Thank you, GM, for taking the industry lead." Page 187, Line 17-22	Page 152, Line 20-21	冗長な表現を
According to a survey ¹⁷⁹ , 79 percent of OnStar customers said, "One of my biggest concerns is having an accident on the road and not being able to get help," and 86 percent said, "OnStar gives me 'peace of mind' that everything will be okay if my family has a problem while on the road." The same survey also indicated that 85 percent of OnStar customers felt that "the most important function of OnStar is the automatic notification of emergency personnel if the airbags go off."	According to a survey ²⁵⁷ , 86 percent of customers said, "OnStar gives me 'peace of mind' that everything will be okay if my family has a problem while on the road."	なくした修正 のため、訂正 を認める。
Page 187, Line 23-26 OnStar enabled GM to establish a direct link with customers. and helped further strengthen interactions between customers and car makers. With more than 20 million customer interactions for its subscriber base of more than 2 million, OnStar provided GM with a better understanding of customer safety needs.	Page 152, Line 22-23 OnStar facilitated GM connect to customers by providing a better understanding of GM customer needs, with safety services in order to build customer loyalty, get customer feedback for potential marketing opportunities and for better designing its future vehicles to meet customer needs ²⁵⁸ .	参考文献を明 示し、明確な 表現への修正 のため、訂正 を認める。
Page 187, Line 26 - Page 188, Line 2 GM had aligned itself closer to its customers while providing them valuable safety services. Such direct connections with customers had the potential to deliver long-term benefits in building customer loyalty, getting customer feedback, and setting up potential marketing opportunities. Additionally, GM intends to use the customer insight it received from OnStar services to better design its future vehicles to meet customer needs.	削除	冗長な記述の 削除と認めら れるため、訂 正を認める。
 Page 188, Line 16-17 4. Strategies^{xxxii} including the position of the company in the market related to suppliers, partners and competitors. 	Page 153, Line 12-13 Strategies ^{xxvii} comprising the company positioning in the market related to suppliers, customers, competitors and partners.	明確な表現へ の修正のた め、訂正を認 める。
Page 188, Line 18-20 The challenge is how to create Business Models which make the emerging industry profitable for most players while making the revenue models and sales affordable for users/consumers.	Page 153, Line 14-15 The challenge is new profitable Business Models for the emerging industry while having both value and cost affordable for users/consumers.	明確な表現へ の修正のた め、訂正を認 める。
Page 188, Line 26 - Page 189, Line 6As integration of vehicle and telecommunications platforms proceed,	Page 153, Line 21-27 As integration of vehicle and telecommunications systems proceed,	明確な表現へ

strategies for bundling ITS information, services, and equipment increase in complexity and so will correspond approaches to business modeling. ITS/Telematics firms have no established business models, just services and equipment, some of which are free and some not. Many key variables within the various business models remain unknown: there is no successful Business Models (except VICS and OnStar) because of lack of information on customer types, products/services and pricing.	strategies for creating ITS/Telematics information, services, and hardware rise in complexity and so accordingly business modeling. ITS/Telematics firms have no established business models, just services and equipment, some of which are free and some not. Many components within the many business models remain indefinite: there is no successful Business Models (except VICS and OnStar) because of lack of information on customer types, products/services and pricing.	の修正のた め、訂正を認 める。
Page 189, Line 18 - Page 190, Line 1 When there is a market for ITS services, it means that the customer should be willing to use/pay for those services, but the customers do not yet see clearly the ITS benefits, and therefore less the customer is willing to use/pay for ITS services.	Page 154, Line 11-13 A market for ITS services indicate that customers are willing to use and pay for those services. If the customers do not yet understand the ITS benefits, the customer will be not willing to use and pay for ITS services.	冗長な表現をなくした修正のため、訂正を認める。
Page 190, Line 14-17 These systems include display, computing functions, GPS and road map software. Thanks to VICS, Japan has been successful in deploying a nationwide traveler information system capable of providing information for real time route guidance through this first generation of On-Board Units (OBUs).	Page 155, Line 7 These systems include display, computing functions, GPS and road map software.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 191, Line 13-16 Japanese emerging ITS industry hopes run high for additional future success of ITS/Telematics-related businesses resulting from the creation of a variety of applications initiated by VICS and associated car navigation units, just as multimedia mobile phones have succeeded to be a platform for applications such as i-mode.	Page 156, Line 1-4 Japanese emerging ITS industry hopes run high for ITS/Telematics- related businesses resulting from the creation applications initiated by VICS and associated car navigation units, just as multimedia mobile phones have succeeded to be a platform for applications such as i-mode.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 193, Line 1-2 Figure 7.7: Dedicated Short Range Communication (DSRC) characteristics in Japan	Page 157, Line 12-13Figure 7.5: Dedicated Short Range Communication (DSRC)characteristics in Japan	図番号のケア レスミス修正 のため、訂正 を認める。
Page 193, Line 9-10 Transactions such as processing of electronic payment for purchases of goods and services present additional business opportunities.	Page 158, Line 6-7 ITS is to offer services ²⁶⁰ new business opportunities for building relationships and increasing sales.	参考文献を明 示し、明確な 表現への修正 のため、訂正 を認める。
 Page 194, Line 5-6 Industry focus on technological development, driven by the latest technological innovations simply and offering new technologies because it is possible to do so. 	 Page 158, Line 15-16 Industry focus on technological development, driven by the latest technological innovations, simply because it is possible to do so. 	冗長な表現を なくした修正 のため、訂正 を認める。

 Page 194, Line 9-10 User approach related to technology: users tend to adopt technologies at a different rate, based on technological acceptance: 	 Page 158, Line 19-20 User approach related to technology: users tend to adopt technologies at a different rate, based on technological acceptance²⁶¹: 	参考文献を明 示したため、 訂正を認め る。
Page 194, Line 18-23 <i>ITS has been introduced to display "a clear example of an advanced info-communications society to the Japanese people, through road traffic/transportation system being closely related to their daily lives. Thus, ITS is expected to play a leading role in creating an advanced info-communications society where every citizen is ensured of leading a happy life through use of state-of-the-art info-communications technologies".</i>	Page 159, Line 3-6 <i>ITS has been introduced as "a clear application of a Japanese advanced info-communications society, being closely related to people daily lives where every citizen is ensured of leading a happy life through use of state-of-the-art info-communications technologies²⁶²".</i>	。 参考文献を明 示し、冗長な 表現をなくし た修正のた め、訂正を認 める。
Page 195, Line 12-26 When considering information technology, it's easy to remain focused on advanced technologies rather than the people who need to use these technologies. We believe, however, that it is essential to formulate IT policies in terms of IT users and people. It is also preferable that IT technologies become infrastructures that users can utilize forgetting these technologies are even there—much like air and water. In other words, IT technologies should exist in such a way that people will experience convenience and feel their outstanding effects in all areas of their lives. Japan has achieved remarkable results in catching up with the world by actively implementing IT- related investment with the promotion of IT as a one of the countries major objectives. While the results from the supplier side are seen as being outstanding, when it comes to IT user satisfaction, our results were not necessarily seen as being sufficient. We now are embarking on the final stage of the IT revolution in which we will see the creation of a society where people are able to truly enjoy the benefits of these new information technologies, and during this final stage, it will be the perspective of IT users that shall remain paramount.	Page 159, Line 20-26 We believe that it is essential to formulate IT policies in terms of IT users and people. It is also preferable that IT technologies that users can utilize forgetting these technologies are even there—much like air and water in a way that people will experience convenience in their lives. We will see the creation of a society where people are able to truly enjoy the benefits of these new information technologies, with the perspective of IT users that shall remain paramount.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 196, Line 1-2 US ITS America' National ITS Program Plan developed a series of	Page 160, Line 1-2 US ITS America' National ITS Program Plan developed a series of	参考文献を明 示したため、
eight themes, which include a "Human Factors Theme"	eight themes, which include a "Human Factors Theme" (excerpt ²⁶⁴)	訂正を認め る。
Page 196, Line 12-13	Page 160, Line 11-12	参考文献を明

Understanding human factors is a fundamental key to the effective delivery of the benefits of ITS.	Understanding human factors is a fundamental key to the effective delivery of the benefits of ITS ²⁶⁵ .	示したため、 訂正を認め る。
 Page 196, Line 14-17 Post-crash notification systems are a significant advancement in the field of vehicle safety technologies but most importantly it responds to customer concerns for enhanced vehicle safety and is supported by leading experts in the emergency and medical fields. 	削除	冗長な記述の 削除と認めら れるため、訂 正を認める。
Page 196, Line 19-20 In this approach, all persons who want to move are considered as potential customers: drivers, passengers and pedestrians.	Page 160, Line 14-15 In this approach, all moving persons are considered as potential customers: drivers, passengers and pedestrians ²⁶⁶ .	参考文献を明 示し、明確な 表現への修正 のため、訂正 を認める。
Page 196, Line 23-24 In Telematics industry, there are several actors – e.g. auto makers and telecom players- that all fight for the position of owning the customer.	Page 160, Line 18-19 In Telematics industry, there are several actors – e.g. auto makers and telecom players- all aiming at owning the customer.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 197, Line 16-20 In a CRM context for a company, the only people able to evaluate the quality of the company's goods and services are the customers who buy them. Thus, the continuous improvement of the services through constant user feedback, within VRM and CRM, is vital in the telematics industry.	削除	冗長な記述の 削除と認めら れるため、訂 正を認める。
Page 197, Line 23-25 A better consideration of human factors will facilitate the rollout of safe and usable ITS/Telematics products and services for all users.	Page 161, Line 11-12A better consideration of human factors will enable safe and user- friendly ITS/Telematics services and products for all.	冗長な表現を なくした修正 のため、訂正 を認める。
 Page 198, Line 5-30 Pricing (Incentives) In cases where users buy equipment or pay charges to use ITS services, incentives can be an effective sales policy. Government could give subsidies or other incentives to consumers who purchase ITS products and services. Public sector could encourage deployment and adoption of ITS technologies via direct subsidies or by reducing taxes on vehicles that carry ITS products. Economy of scale	 Page 161, Line 17 - Page 162, Line 7 Pricing Public sector could encourage adoption of ITS via subsidies on vehicles that carry ITS products. Economy of scale Economies of scale decrease service and equipment prices per unit which in return increase sales figures. A key success factor in Japan has been reasonable costs of manufacturing through scale economies. Indeed, such rapid popularization of VICS is due to price decreases resulting from economy of scale of large production of car 	冗長な表現を なくした修正 のため、訂正 を認める。

 in production, pushing the service and equipment prices down. Falling prices increase sales figures again, creating a virtuous cycle. A critical success factor in Japan has been scale economies and reasonable unit costs of manufacturing. If VICS had been not employed on a national scale, it was unlikely that the equipment manufacturers would have found it economically feasible to participate in the project. Indeed, among other reasons for such rapid popularization of VICS is large production of car navigation units that has resulted in price decreases economies of scale. Increasing appeal through packaged applications Some services which are not readily accepted as stand alone would be more acceptable in combination with other services. For example, combining a service with existing car navigation systems can make it quite easy to expand the user base. This approach of bundling services and applications rather than keeping them in isolation can spread them. A typical example is Japan's VICS (Vehicle Information and Communication System): VICS information became attractive when combined with car navigation systems. With OnStar, the ability to make calls for emergency help (with automatic location) has been strongly identified in market research as services the public is willing to pay for as consumers. And given continued consumer interest in safety, other services have been added as commercial ones. 	 navigation units price decreases. Increasing appeal through packaged applications Services offered as stand -alone might be more acceptable bundled with other services. For example, linking a service with car navigation can expand the user base. This bundling of services and applications rather than keeping isolated can spread them. A typical example is Japan's VICS information which became attractive when combined with car navigation. With Onstar, along the ability to make calls for emergency help, given continued consumer interest in safety, other services have been added as commercial ones. 	
 Page 199, Line 13-19 Products and services are designed to provide utmost sophistication to the Japanese customer. This technology trend is confirmed by IT New Reform Strategy¹⁸⁴: Both the tough and uncompromising nature of Japanese consumers and the uncompromising drive to perfection of Japanese industry, which has itself been diligently trying to live up to customer expectations, have together nurtured Japan's strong domestic industries in a variety of areas—from IT to materials, automobiles, and appliances. 	Page 162, Line 20-31 Products and services are designed to provide utmost sophistication to the Japanese customer. This technology trend is confirmed by IT New Reform Strategy Society (IT Strategic Headquarters, 2006) ²⁶⁹ : "Both the tough and uncompromising nature of Japanese consumers and the uncompromising drive to perfection of Japanese industry, which has itself been diligently trying to live up to customer expectations, have together nurtured Japan's strong domestic industries in a variety of areas—from IT to materials, automobiles, and appliances".	参考文献を明 示し、引用符 を挿入して引 用箇所を明 化した修正の ため、訂正を 認める。
Page 209, Line 11 - Page 210, Line 2 For Fukushima ¹⁸⁹ , the government economic policies, business models and leadership types that served Japan so well during the postwar catch-up phase through the 1980s have become liabilities for Japan in the post-Cold War world of the 1990s and the 21st century". Further, to regain its competitiveness, Japan needs to make major changes to cope effectively with the forces of globalization. Among	Page 173, Line 8-12 For Fukushima (Korn Ferry Asia) ²⁷⁴ , "the government economic policies and leadership types that served Japan so well during the postwar catch-up phase through the 1980s have become liabilities for Japan in the post-Cold War world of the 1990s and the 21st century. Further, to regain its competitiveness, Japan needs a new leadership type embracing change, diversity and innovation".	参考文献を明 示し、引用符 を挿入して引 用箇所を明確 化し、冗長な 表現をなくし

the central changes needed is a new leadership type embracing change, diversity and innovation that might best be described as a "global change agent." Therefore, companies need someone with creative problem-solving ability, multilingual and multicultural skills, and a willingness and sensitivity to listen and learn from the diversity in the marketplace. At the same time, a successful global leader needs to be willing to take risks to challenge the status quo Page 210, Line 3-19 For Fukushima ¹⁹⁰ , some attributes of Japanese executives – e.g., lack of entrepreneurial spirit, risk averseness, and slow decision-making – can obviously impede the ability of Japanese executives to be effective globally. When an executive works globally, he/she encounters new and unknown situations every day. The individual is usually hired to solve problems that he/she has never experienced before. To be successful as a global executive, the executive needs to be able to manage diversity in people, rules and regulations, customs, and protocol. For Fukushima ¹⁹¹ , there is a common set of characteristics for global leaders, as change agents. These qualities include: (1) diversity management, (2) commitment to results, (3) accountability, (4) challenging/entrepreneurial spirit, (5) positive (can-do) attitude, (6) risk-taking, (7) humility to learn different values, and	Page 173, Line 12-24 For Fukushima ²⁷⁵ , "some attributes of Japanese executives – e.g., lack of entrepreneurial spirit, risk averseness, and slow decision-making – can obviously impede the ability of Japanese executives to be effective globally". For Fukushima ²⁷⁶ , "there is a common set of characteristics for global leaders such as: (1) diversity management, (2) commitment to results, (3) accountability, (4) challenging/entrepreneurial spirit, (5) positive (can-do) attitude, (6) risk-taking, (7) humility to learn different values, and (8) uncompromising integrity".	た修正のた め、訂正を認 める。 引用符相 の 行用 で 明 な た の た の た の て 訳 正 を 認 め る。
 (8) uncompromising integrity. Page 210, Line 20-22 Most of the challenges which ITS faces relate to creating new and 	Page 173, Line 26-27 ITS challenges relate to creating new global business opportunities but also to the need to change management from a local criented	冗長な表現を なくした修正
global business opportunities but more importantly to the need to change and update existing management, from a local-oriented attitude to a global vision.	but also to the need to change management, from a local-oriented attitude to a global vision.	のため、訂正 を認める。
Page 211, Line 11-21 Christensen contends that a product which moves to the higher end of the market creates opportunities for disruptive technologies to "attack from below" and occupy the lower end of the traditional market. As the new technology itself improves, it may occupy that an ever- growing share of the market. Once the technological innovation reaches from the early to late majority of users, it begins to compete with the established product in its traditional market.	Page 174, Line 12-21 Christensen contends that a product which moves to the higher end of the market creates opportunities for disruptive technologies to "attack from below" and conquer the lower segment of the existing market. For Christensen," as the new technology itself advances, it will occupy -growing share of the market. Once it reaches the majority of users, it begins to compete with the established product in its existing market" ²⁷⁸ .	参考文献を明 示し、引用符 を挿入して引 用箇所を明確 化し、冗長な 表 修正のた

MIT's Utterback ¹⁹³ adds the concept of "attack from above "and contends that by emphasizing only "attack from below", Christensen ignores other patterns of disruptive technological innovation, which may be of equal or greater importance. Utterback describes digital cameras as an "attack from above", a more expensive technology, and as a counter-example to Christensen's theory.	MIT's Utterback ²⁷⁹ complements the concept of "attack from above" in addition to "attack from below", which may be of equal or more important. Utterback describes digital cameras as an "attack from above", a more expensive technology, and as a counter-example to Christensen's "attack from below".	め、訂正を認 める。
Page 212, Line 1-15 Christensen asked why did so many Japanese companies that were once considered the best run in the world stumble so quickly? The answer is that their innovations fell victim to disruptive technologies. Nearly all of the technologies that drove Japan's business growth through the 1960s and 1970s were disruptive relative to the dominant American and European manufacturers. But based on Christensen's theory, disruptive technologies also set their own trap ^{xxiv} : these very firms are now stuck at the high end of their own markets ^{xxxv} . Their best customers are now the most sophisticated and demanding ones. For Christensen, the American economy has soared because the United States, unlike Japan, has been able to repeat the cycle of disruption. When U.S. industry leaders become stuck at the top of their markets, employees leave, pick up venture capital on the way out, and start new disruptive companies of their own. In Japan, however, the story is different. Its leading companies played the disruptive game once but then exhausted their growth options at the high end of their markets. Japan's industrial structure has made it difficult to start the new companies that create disruptive growth.	Page 175, Line 1-10 Christensen asked "why did so many Japanese companies that were once considered the best run in the world stumble so quickly". The answer is nearly all of the technologies that drove Japan's business growth through the 1960s and 1970s were disruptive relative to the dominant American and European industries. But their best customers are now the most sophisticated and demanding ones. For Christensen, "the American economy has soared because the United States, unlike Japan, has been able to repeat the cycle of disruption. When U.S. industry leaders become stuck at the top of their markets, employees leave, pick up venture capital on the way out, and start new disruptive companies of their own. In Japan, however, the story is different".	引用符を挿入 して引用箇所 を明確化し、 冗長な表現を なくした修正 のため、訂正 を認める。
Page 212, Line 18-24 Christensen illustrates the case of Toyota who attacked the lowest tiers of the North American automobile market in the 1960s with its Corona model. The cars were simple and reliable that they became second cars. Toyota encountered competition from other Japanese companies such as Nissan and Honda. To maintain its profit margins, Toyota then introduced models targeted at more demanding consumers. Honda and Nissan have followed Toyota. Now, these car makers are stuck at the high end of their own markets.	Page 175, Line 13-19 Christensen illustrates the case of Toyota ²⁸¹ : "Toyota attacked the lowest tiers of the North American automobile market in the 1960s with its Corona model. The cars were simple and reliable that they became second cars. Toyota encountered competition from other Japanese companies such as Nissan and Honda. To maintain its profit margins, Toyota then introduced models targeted at more demanding consumers. Honda and Nissan have followed Toyota. Now, these car makers are stuck at the high end of their own markets".	参考文献を明 示し、引用符 を挿入して引 用箇所を明確 化した修正の ため、訂正を 認める。
Page 212, Footnote xxxivChristensen calls this trap "the innovator dilemma" xxxvThe macro-economic parallel is Japan stucked at the high end of its developmental phase	削除	対象となる本 文が削除され たため、訂正 を認める。

Page 213, Line 4-6 Much of what the public sector does in relation to ITS can have a direct and profound effect on industry. ITS industry will mature when private players have established successful business models.	Page 175, Line 26 - Page 176, Line 1 What the public sector does (or doesn't) in connection to ITS strongly influence several industries (Transport, Car, Telecom) structure and related business models. Emerging ITS industry will mature when private players have established successful business models.	明確な表現へ の修正のた め、訂正を認 める。
Page 213, Line 21-25 In order to globalize their ITS products and services, Japanese private sector needs not only to carry out organizational reforms in order to increase their competitiveness but also to improve their global business management and leadership. These efforts for reforms are also essential for Japanese companies to participate and succeed in Asia through PPP2Ps.	Page 176, Line 16-19 In order to globalize their ITS products and services, Japanese private sector needs not only to carry out organizational reforms in order to increase their competitiveness but also to improve their global business management and leadership, also essential for Japanese companies to succeed in Asia through PPP2Ps.	冗長な表現を なくした修正 のため、訂正 を認める。

Chap VIII Conclusion

TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	訂正後	訂正理由と内
		容・訂正を認
		めた理由
Page 215, Line 5-11	Page 177, Line 5-11	冗長な表現を
Japan's population is forecast to decrease rapidly. In the mid twenty-	Japan's population is forecast to decrease rapidly. Consecutively, the	削除し、明確
first century, Japan's population will be about half its current size,	labor force would also decrease as well. It might be that Japan's	な表現への修
and one-third of the population will be over 65 years old.	population ratio might be connected to economic growth ratio which	正のため、訂
Consecutively, it is expected that the labor force will decrease and it	might further decline unless there is a productivity increase.	正を認める。
is likely that Japan's potential rate of economic growth will decline in	Two major factors to increase productivity would be the (i) shifting	
the early twenty-first century unless there is a large increase in	assets from low- into high level productive sectors to shift into a	
productivity.	knowledge economy and (ii) advance in technologies.	
Two major factors to increase productivity are the (i) transfer of		
resources from low- to high-productivity sectors in the economy and		
(ii) advance in technologies.		
Page 216, Line 6-7	Page 178, Line 5-6	冗長な表現を
• "e-Japan Strategy" (2001) advocates development of Japan into	• "e-Japan Strategy" (2001) advocates Japan as the world's	なくした修正
the world's most advanced Info-telecom society.	advanced Info-telecom society.	のため、訂正
		を認める。
Page 216, Line 10-11	Page 178, 9-10	冗長な脚注の
• "IT New Reform Strategy" (2006) aims at the realization of the	• "IT New Reform Strategy" (2006) aims at the realization of the	削除のため、
Ubiquitous Networking Society (UNS) ^{xxxvi} .	Ubiquitous Networking Society (UNS).	
originous retworking society (0105)	Obiquitous Networking Society (ONS).	訂正を認め
		る。
Page 216, Line 13-25	Page 178, Line 12-23	参考文献を明
In Japan, Intelligent Transport System has been defined as a	In Japan, Intelligent Transport System has been defined as "a	示し、引用符
comprehensive info-telecommunications system dealing with	comprehensive info-telecommunications system dealing with	を挿入して引
transportation.	transportation" ²⁸⁴ .	用箇所を明確
• The 1995 "Guidelines" defined ITS as indispensable for	• The 1995 "Guidelines" defined ITS as "indispensable for the	化し、明確な
promoting the creation of an advanced Info-telecom society".	creation of an advanced Info-telecom society ²²⁵ .	
• For the "1996 Comprehensive Plan for ITS in Japan", ITS is	• For the "1996 Comprehensive Plan for ITS in Japan", ITS is	表現への修正
considered to play an important role in creating "an advanced	considered to support the creation of "an advanced Info-telecom	のため、訂正
Info-telecom society" and which later became "the Ubiquitous	society" and which later became "the Ubiquitous Society".	を認める。
Society".	• In 1999, the Telecommunications Technology Council (TTC)	
• In 1999, the Telecommunications Technology Council (TTC)	mentioned in "Info-communications Systems of ITS" report that	
mentioned in "Info-communications Systems of ITS" report that	"ITS would be a major driving force for the Ubiquitous	
ITS would be a major driving force for the Ubiquitous Society.	Society ²⁸⁶ .	
• One of the projects of u-Japan plan is ITS implementation. In	• One of the projects ²⁸⁷ of u-Japan plan is ITS implementation. In	
this perspective, ITS is expected to play in Japan an important	this perspective, ITS is expected to contribute to an Ubiquitous	

contribution in realizing an Ubiquitous Society.	Society.	
Page 216, Footnote ^{xxxvi} UNS is officially defined as infrastructure that can easily connect to networks that anyone can use at anytime from anywhere for any purpose and that has no digital divide	削除	冗長な記述の 削除と認めら れるため、訂 正を認める。
 Page 217, Line 2-15 In July 1996, five government bodies¹⁹⁹ compiled a "Comprehensive Plan for ITS in Japan²⁰⁰", a remarkable visionary policy statement, presenting a long-term ITS vision and including the main concepts for ITS development, as well as its deployment plans as related to ITS objectives. The following definition of ITS has shaped the way ITS has been conceived, designed and implemented: <i>1.ITS is defined as a comprehensive info-communications system dealing transportation;</i> <i>2.ITS can display a clear example of an advanced info-communications society project;</i> <i>3.ITS brings a dynamic and intense international competition behind the scenes in the field of technological development. Japan should seize this opportunity to take the lead in the international arena through ITS promotion;</i> <i>4.ITS-related sectors as automobile and high-tech industries will have significant ripple effects on the Japanese economy, for instance, for new business creation</i> 	 Page 178, Line 27 - Page 179 Line 10 In July 1996, 5 government bodies²⁸⁹ bring together a "Comprehensive Plan for ITS in Japan²⁹⁰", a remarkable visionary policy statement, presenting a long-term ITS vision and including the main concepts for ITS development, as well as its deployment plans as related to ITS objectives. The following definition of ITS has shaped the way ITS has been conceived, designed and implemented²⁹¹: <i>1.ITS is defined as "a comprehensive info-communications system dealing transportation";</i> <i>2.ITS can "display a clear example of an advanced info-communications society project";</i> <i>3.ITS brings "a dynamic and intense international competition in the field of technological development. Japan should seize this opportunity to take the lead";</i> <i>4.ITS-related sectors such as "automobile and high-tech industries will have significant ripple effects on the Japanese economy for new business creation":</i> 	参示を用化表のを 考し挿箇し現た認 対しを明の、る。 明符引確な正正 利したの がの がの れて明正 が がの がの がの がの がの の の の の の の の の の の の の の
		していため、 訂正を認め る。
Page 218, Line 5-12 It has been widely acknowledged that the Japanese government has always played a very active role in Japan's economic development. Sheridan ²⁰¹ states that the role of the Japanese government is quite unusual by Western standards in that "it gives Japan an unusual capacity to think strategically and at times to make deliberate changes of direction as a nation society". Sheridan's statement fits to the past, current and future telecom policy, in particular when it comes to ITS. To add to Sheridan's perspective, the role of the state in Japan has	Page 180, Line 3-8 Historically, Japanese government always plays an essential and vital role in Japan's economic development. Sheridan ²⁹² states "Japanese government think strategically and make deliberate changes of direction as a nation society". Sheridan's statement fits to the past, current and future telecom policy, in particular when it comes to ITS. To add to Sheridan's perspective, the role of the Japanese state in has always been in the context of technological catch-up, until the end of last century.	引用符を挿入 して引用箇所 を明確化し、 冗長な表現を なくした修正 のため、訂正 を認める。

always been in the context of technological catch-up, until the end of		
last century.		マロシャーク
Page 218, Line 20-21	Page 180, Line 15-16	冗長な表現を
Aoki ²⁰² agrees that Japan, as pioneering economy, represents most	Aoki ²⁹³ agrees that Japan, as pioneering economy, represents the	なくした修正
promisingly the rise of the entrepreneurial state.	upsurge of the entrepreneurial state.	のため、訂正
		を認める。
Page 219, Line 12-13	Page 181, Line 7-8	明確な表現へ
The entrepreneurial function of government is accordingly carried out	The entrepreneurial function of government is indeed supported with	の修正のた
with entrepreneurship and technological innovation ²⁰⁴ .	entrepreneurship and technological innovation ²⁹⁵ .	め、訂正を認
		める。
Page 219, Line 15-19	Page 181, Line 10-15	
Christensen ²⁰⁵ describes a technological innovation's framework,	Christensen ²⁹⁶ describes a technological innovation's framework,	明確な表現へ
named hereby as "attack from below" where the traditional	named hereby as "attack from below" where the traditional	の修正のた
performance attributes of a product is to move to the higher end of	performance attributes of a product is to move to higher segment of	め、訂正を認
the market. Christensen ²⁰⁶ contends that this move creates	the market. Christensen ²⁹⁷ contends that this move creates	める。
opportunities for disruptive technologies to "attack from below" and	opportunities for disruptive technologies to "attack from below" in	
occupy the lower end of the market, where a product is to move to	order to conquer the lower segment of the market, where a product	
the low-end of the market.	move to the low segment of the market.	
Page 219, Line 23-24	Page 181, Line 17-18	綴り修正のた
For the author, Intelligent Transport System is a shift of innovation		
pattern from a Christensen perspective to a Utterback one	pattern from a Christensen perspective to an Utterback one.	め、訂正を認
		める。
Page 220, Line 2-10	Page 181, Line 22 - Page 182, Line 4	明確な表現へ
Partnerships are designed to complete what each organization is not	Partnerships are aimed at complementing each side not able of	の修正のた
capable of realizing on its own for the reason of lacking resources,	achieving its goals on its own due to lack of financial resources,	め、訂正を認
expertise, or experiences. In general, partnerships include the	technological expertise, or experiences. Generally, partnerships	める。
following elements:	consist of:	, G
(1) a shared vision;	(1) a common vision;	
(2) a strong willingness to work together;	(2) a strong willingness to work together;	
(3) the potential of attaining different goals together;	(3) the commitment to attain goals together;	
(4) pooled resources, expertise and experiences;	(4) shared resources, expertise and experiences;	
(5) shared risks and benefits; and	(5) shared risks and benefits;	
(6) flexible consensus building processes for decision-making.	(6) consensus for decision-making processes making	
Page 220, Line 12-15	Page 182, Line 6-8	冗長な表現を
1, - the technological approach (i.e. chapter III Technology), among	1, - the technological approach (i.e. chapter III Technology), among	なくした修正
vehicles and between vehicles and transport infrastructure, which can	vehicles and between vehicles and transport infrastructure, which	のため、訂正
help e.g. to prevent crashes and reduce the severity of injuries that	can help e.g. to minimize the consequences of crashes with the use	を認める。
occur by in minimizing the consequences of crashes with the use of	of telecommunication technologies.	
telecommunication technologies.		

Page 220, Line 20-28 The institutional approach is based on partnerships: there are a large number of different ways partners can work together such as Public- Private Partnership (PPP), National Innovation System (NIS), Public- Public Partnership and others. Each of these different ways of partnering may be thought of as a partnership model – a particular way of interacting among different partners. The success of ITS is correlated to the partnership of multiple stakeholders in the design of policies and in their implementation where each partner has specific roles and responsibilities. Partnerships are required to combine the capabilities and resources to create win-win situations for the various partners involved.	Page 182, Line 13-19 The institutional approach is based on partnerships such as Public- Private Partnership (PPP), National Innovation System (NIS), Public-Public Partnership and others. Each of these may be thought of as a partnership model – a particular way of interacting among different partners. The success of ITS is correlated to the partnership of multiple stakeholders in the design of policies and in their implementation where each partner has specific responsibilities. Partnerships combine capabilities and resources to create win-win conditions for the partners involved.	冗長な表現を なくした修正 のため、訂正 を認める。
 Page 221, Line 3-11 Realizing the ITS vision depends on building partnerships within and between the public sector at all levels and the private sector in its broadest sense. Effective and ongoing partnerships are essential to the long-term success of ITS technological deployment. Public-private partnerships bring the strengths of each sector together for the benefit of both. The public and private partners create the services for the private sector principal customer base, which is also the same public sector's base: vehicle drivers and passengers. 	 Page 182, Line 22 - Page 183, Line 2 Realizing the ITS vision depends on "building partnerships within and between the public sector at all levels and the private sector in its broadest sense"²⁹⁹ (www.itsa.org). Operational and continuing partnerships are indispensable to the sustainable success of ITS technological deployment. "Public-private partnerships bring the strengths of each sector together for both benefit"³⁰⁰ (www.worldbank.org) Both public and private partners create services for the same users: private sector customer, who are the same public sector's citizen: drivers and passengers. 	参考 文献 を明 デ で 挿 八 し て 引 用 符 を 明 裕 た の た 明 で 朝 の で 朝 一 て 引 明 確 れ し て 引 明 確 な 表 し 、 明 確 な 表 の の の の で 朝 明 確 な た あ の の の で ず の で あ の で 朝 一 の で の の の で の で の で の で の で の の の で の で の で の で の の の の で 正 を 認 め る 。 の る の 、 こ 正 を の る る 。 の る の る の の の る の の の の の の の の の の の の の
 Page 221, Line 16-21 Public sector needs to help accelerate ITS deployment by further encouraging private sector, providing market incentives and removing barriers that slow down private sector involvement. Steps have to be taken by the public sector to assure that private sector services serving public objectives are supported by adequate policies that provide return on investments for the private sector. 	 Page 183, Line 7-12 Public sector needs to help accelerate ITS deployment by further encouraging private sector, with market incentives and with eliminating barriers that slow down private sector involvement. Public sector needs "to assure that private sector services serving public interests are sustained by suitable policies that provide return on investments for the private sector"³⁰¹. 	参考文献を明 示し、引用符 を挿入して引 用箇所を明確 化し、明確な 表現への修正 のため、訂正 を認める。
Page 221, Line 23-24 ITS is leading to the creation of new products, services and distribution channels not only within traditional industries but also to a whole new industry.	Page 183, Line 14-15 ITS is creating new products, services and distribution channels not only within existing industries but also to a whole new industry.	 冗長な表現を なくした修正 のため、訂正 を認める。
Page 222, Line 19-25Neither the public sector nor the private sector alone as main partnerswould have achieved ITS implementation objective: each is	Page 184, Line 10-16 Neither the public sector alone nor the private sector alone as main partners would have achieved ITS implementation: each is	明確な表現へ の修正のた め、訂正を認

dependent on the partnership of others to accomplish its goals. Much of what the public sector does in relation to ITS can have a direct and sometimes profound effect on industry. he public sector needs to consider how and under which circumstances to change its practices to accommodate private sector and business models. Telematics, compared to ITS, is a "stand-alone" industry without public sector involvement. Page 223, Line 14-16	dependent on the other to accomplish common goals. Much of what the public sector does (or doesn't) in connection to ITS strongly influence several industries (Transport, Car, Telecom) structure and related business models. Therefore, the public sector needs to adjust itself to the private sector and existing/new business models. Telematics, compared to ITS, is a "stand-alone" industry without public sector involvement. Page 185, Line 14-16	める。 冗長な表現を
In 2006, with regard to the traffic safety, a more realistic target of "reducing traffic fatalities to 5,000 or below by the end of 2012" is stated ²⁰⁸ .	In 2006, with regard to the traffic safety, a more realistic target of "reducing traffic fatalities to below 5,000 by2012" is stated ³⁰² .	なくした修正 のため、訂正 を認める。
 Page 223, Line 17-28 From the New IT Reform Strategy (NITRS) and the 8th safety program, the following specific statements are related to post-crash systems: Reducing the annual number of any casualties to one million or less by 2010. The government will improve rescue and emergency services systems and emergency medical care services by promoting closer liaison and cooperation with emergency-related organizations such as emergency medical facilities. collaboration between the various involved government agencies as well as the private sector to realize advanced ITS and leads Japan into the world's safest road traffic society. The improved systems will be designed to deal with road traffic accidents to save the lives of people injured in traffic accidents and to minimize the harm and damage caused by accidents. 	削除	冗長な記述の 削除と認めら れるため、訂 正を認める。
Page 224, Line 1-9 The post-crash system such as OnStar is far more valuable than just a localized indication that simply denotes that a crash occurred as in the crash notification systems such as Helpnet. The post-crash systems will allow the prediction of the probability of severe and specific injuries. It would allow moving from simple knowledge of a location of crash to a detailed clear picture in real time of the severity of the crash. By enhancing the crash information that emergency and medical teams receive, the appropriate type of response assistance will be provided and will consecutively reduce the numbers of time-critical injuries.	Page 185, Line 18-25 The post-crash system such as OnStar is far more valuable than just a localized notification that basically indicate that a crash occurred as in the crash notification systems such as Helpnet. The post-crash systems predict the probability of severe and specific injuries. It would allow moving from simple notification of a location of crash to a detailed real time information on the severity of the crash ³⁰³ . By enhancing the crash information received by the emergency and medical teams, adequate (type of) response assistance will be provided and will consecutively reduce the numbers of time-critical injuries ³⁰⁴ .	参考文献を明 示し、明確な 表現への修正 のため、訂正 を認める。

 Page 225, Line 9-15 Weiss²⁰⁹ states that Japan, in its industrial transformative capacity, coordinates industrial change in accordance with the changing conditions of international technological competition. The 1996 "Comprehensive Plan for ITS in Japan"²⁰¹ mentions that "ITS brings a dynamic and intense international competition behind the scenes in the field of technological development and Japan should seize this opportunity to take the lead in the international arena through ITS promotion." Page 186, Line 26 - Page 187, Line 3 Weiss³⁰⁵ states that Japan, in its industrial transformative capacity, matches industrial change in accordance with the changing international technological competition. The 1996 "Comprehensive Plan for ITS in Japan"³⁰⁶ mentions that "ITS brings a dynamic and intense global competition in technological development and Japan should seize this opportunity to take the lead in the international arena through ITS promotion." 		参考文献を明 示し、明確な 表現への修正 のため、訂正 を認める。 冗長な表現を
 Page 226, Line 12-18 In such PPP2P, the Japanese PPP would collaborate with an Asian public sector. The parties involved in PPP2P and their interaction can be summarized as follows: 1- PPP between the Japanese public sector and Japanese private sector 2- Partnership between Japanese public sector and the Asian public sector a. Japanese loan and/or grant aid to the Asian public sector in relation to the purchase of necessary equipment and materials for the construction of transportation infrastructure. 	 Page 187, Line 27 - Page 188, Line 4 In such PPP2P, the Japanese PPP would collaborate with an Asian public sector. The interaction between parties involved in PPP2P can be as follows: 1- PPP between Japanese public sector and Japanese private sector 2- Partnership between Japanese public sector and the Asian public sector a. Japanese loan and/or grant aid to the Asian public sector in relation to the purchase of required equipment and supplies for the building of transportation infrastructure. 	几長な表現を なくした修正 のため、訂正 を認める。
 Page 226, Line 24 - Page 227, Line 2 highlight ESRs projects as a development priority. include road safety components in grants for health and programs. promote the ITS-based ESRs. support research, programs and policies related to ITS. make funding for transport infrastructure projects conditional on ITS implementation provide, if ITS components are invested at the same time as road construction, further loans for ITS should be made within the ESRs loans. 	 Page 188, Line 10-16 Highlight ESRs projects as a development prime importance. require road safety modules for allowances encourage ITS-based ESRs. support research, programs and policies related to ITS. make financing for transport projects conditional to ITS implementation provide, if ITS components are included in road construction, further loans for ITS should be made within the ESRs loans. 	冗長な表現を なくした修正 のため、訂正 を認める。
Page 227, Line 4-8 From an Asian perspective, as analyzed for ITS in Japan, the same apply to ITS implementation in Asia: there are a variety of institutional and technology prerequisites that need to be put in place for the successful implementation of ITS. Most of the challenges which ITS faces relate less to technology than to institutional innovative flexibility.	Page 188, Line 18-21 From an Asian perspective, as analyzed for ITS in Japan, the same apply to ITS implementation in Asia: a wide range of policy and technological prerequisites are prerequisite for the successful implementation of ITS. Most challenges ITS faces relate to institutional innovative flexibility and less to technology.	明確な表現へ の修正のた め、訂正を認 める。
Page 227, Line 21-25	Page 189, Line 6-10	明確な表現へ

 Gerschenkron²¹¹ introduced the notion of the state as an entrepreneurial agency in the making and shaping of private sector's markets. Evans²¹² differentiates entrepreneurial role of the state as generator of public–private symbiosis to generate the synergies required for the establishment of a high-technology industry that is competitive in international markets. Page 230, Line 16-18 2006, ITS part of IT utilization to solve problems (New IT Reform Strategy): <i>"it is necessary to create a state where, instead of struggling to catch up, Japan is rather leading the world</i> 	 ency in the making and shaping of private sector's differentiates entrepreneurial role of the state as lic-private symbiosis to generate the synergies stablishment of a high-technology industry that is ernational markets. entrepreneurial activity in the creation and determining of private sector's markets. Evans³⁰⁹ differentiates entrepreneurial role of the state as generator of public-private association to generate the collaborations required for the foundation of a competitive high-technology industry in global markets. Fage 192, Line 16-17 2006, ITS part of IT utilization to solve problems (New IT egy): <i>"it is necessary to create a state where,</i> 	
 world. Page 230, Line 27 - Page 231, Line 4 What the public sector does (or doesn't) in relation to ITS do have a direct and profound effect on industry structure and consecutively business models. In the business models, technology itself is not the problem: partnership, user perspective and packaged services. Public sector needs to help accelerate deployment by encouraging private sector, providing market incentives and removing barriers that slow down private sector involvement. 	Page 192, Line 26 - Page 193, Line 4 What the public sector does (or doesn't) in connection to ITS strongly influence several industries (Transport, Car, Telecom) structure and related business models. In the business models, technology itself is not the problem: partnership, user perspective and packaged services. Public sector needs to help accelerate deployment by encouraging private sector with market incentives and eliminating barriers that slow down private sector involvement.	明確な表現へ の修正のた め、訂正を認 める。
Page 231, Line 18-20ITS as Intelligent Telecommunication System (for transportation)On taking office in 1993, the newly elected Vice-President Gore set in place a range of government initiatives for a National Information Infrastructure.	sident Gore set On taking office in 1993, the newly elected Vice-President Gore set	
Page 193, Line 24-28 Gore launched NII, Harvard's Branscomb ²¹³ argued that ITS and NII should be integrated as well. He pointed out, "ITS activity occurred almost exclusively in the transportation domain", with o formal mechanism connecting ITS and the NII," and "ITS has n largely absent in reports coming out of the Gore's on NII vities". Page 193, Line 24-28 As Gore launched NII, Harvard's Branscomb ³¹⁰ (Branscomb, 1996) argued that ITS and the NII should be integrated as well. He (Branscomb, 1996) pointed out, "ITS activity has occurred almost exclusively in the transportation domain", with "no formal mechanism connecting ITS and the NII," and "ITS has been largely absent in reports coming out of the Gore's on NII		参 示 た 明 確 な 正 を 調 を 明 で の た 志 の の た 志 の の た 志 の の た 志 の の た 志 の の た 志 の の の た る 。 の の た の た の の た の た の の た の た の た の の た の た の の た の の た の の た の た の の た の た の の の の の の の の の の の の の
Page 232, Line 2-6 In July 1996, five government bodies ²¹⁴ compiled a "Comprehensive Plan for ITS in Japan ²¹⁵ ", a remarkable visionary policy statement, presenting a long-term ITS vision where ITS is defined as a comprehensive info-communications system dealing with transportation and expected to play a leading role in an Info- telecom/Ubiquitous Society.	ment, Plan for ITS in Japan ³¹² ", a remarkable visionary policy statement, presenting a long-term ITS vision where ITS is defined as "a with comprehensive info-communications system dealing with	

		認める。
Page 232, Line 7-15 In 2001, "e-Japan Strategy" advocates to develop of Japan as the world's most advanced telecom nation and positions the ITS systems as part of a strategy to develop its telecommunication infrastructure. ITS in Japan is more a tool and an opportunity to apply and develop telecommunication infrastructure for the transport sector including vehicle industry than a solution to local transport problems. Many countries have positioned their ITS plans as integral parts of their traffic and transportation plans policies. Japan has a different approach by considering ITS as part of a Telecom Policy for competitive global advantage.	Page 194, Line 7-14 In 2001, "e-Japan Strategy" advocates to develop Japan as the world's most advanced telecom country and positions the ITS systems as part of a strategy to develop its telecommunication infrastructure. ITS in Japan is more a tool and an opportunity to apply and develop telecommunication infrastructure for the transport sector including vehicle industry than a solution to local transport problems. In contrast of many nations which have assigned ITS primary parts of their traffic and transportation policy, plans Japan has a different approach by considering ITS as part of a Telecom Policy for	<u>認める。</u> 明確な表現へ の修正のた め、訂正を認 める。
Page 232, Line 23-24 The public sector needs to consider how and under what circumstances to change its practices to accommodate private sector and business models.	Page 194, Line 21-22 The public sector needs to adjust itself to the private sector and existing/new business models.	 冗長な表現を なくした修正 のため、訂正 を認める。
Page 233, Line 1 Technology approach	Page 194, Line 25 Innovation approach	明確な表現へ の修正のた め、訂正を認 める。
Page233, Line 10 Partnership approach	Page 195, Line 5 Business Strategy approach	明確な表現へ の修正のた め、訂正を認 める。
Page 233, Line 14-19 Implementing the ITS policy depends on building partnerships within and between the public sector at all levels and the private sector. Compared to PPP, partnerships between public agencies have been less successful in Japan. Partnering process between public agencies are often obstructed by political or other various peripheral external factors. Inside Japan, public partnership should be part of a process that is inclusive, open and participatory.	Page 195, Line 9-13 Implementing the ITS policy depends on building partnerships within and among the public and the private sector. Compared to PPP, public agencies partnerships have been less successful in Japan. Partnering amid public agencies are frequently filled by political peripheral factors. Inside Japan, public partnership should inclusive, open and participatory.	冗長な表現を なくした修正 のため、訂正 を認める。
Page 233, Line 26-28 For the author, based on the outcome of his research, ITS –within a Japanese context- should be defined as a intelligent wireless telecommunication system applied to transportation.	Page 195, Line 20-22 For the author, based on the outcome of his research, ITS –within a Japanese context- should be defined as an intelligent wireless telecommunication system applied to transportation.	綴り修正のた め、訂正を認 める。
Page 234, Line 6-7	Page 195, Line 29	冗長な表現を

	ITS provides effective and economical means for moving people and	なくした修正
effectively and economically moving people and goods.	goods.	のため、訂正
		を認める。

References

ORIGINAL	FINAL	Type of
		corrections
Page 238-265	Page 200-211	参考文献の追
		加によって文
		献番号が変わ
		っているこ
		と、冗長な参
		考文献を削除
		したことか
		ら、訂正を認
		める。