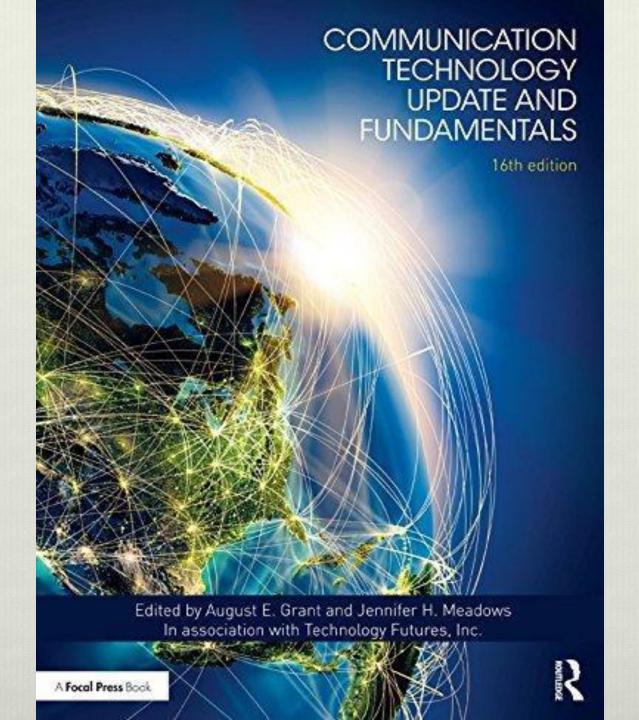
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2018

Communication Technology Update and Fundamentals: Automotive Telematics

Prof. Denise Belafonte-Young MFA Lynn University



Where it all began: 14th Edition

13

Automotive Telematics

Denise Belafonte-Young, M.F.A.

Why Study Automotive Telematics?

- With local building and road changes, locations are often hard to find. CFS is an integral part of waylinding for drivers.
- Tracking devices and quick response times can alleviate stressful situations, enhance safety, and boot stolen property fluests.
- Smart phone appe will provide light and born alerts to help find a lost car, unlock the car, direct the driver to the nearest coffee shop, and much mone.
- Hands thee communication and enhanced Fine booth technology will numeric "mitotamment" in the car.

Introduction

Antomotive telemators can be defined as "flublending of computers and wireless telecommunications technologies" (Reuse, 2009). Telematics coarlies drivers to get information about the location, movement, and state of their vehicles. It also condutes vehicles to communicate wirelessly, which opens un a wede range of services.

telematics is essentially a range of different teatures, options, and devices that are brought together by a single principle—data and communication. (Coe. Prime, & Jest. 2014b). To provide the above services, belematics products may include GPS (Clobal Position System), intervelocite Wi-Di connections, day ital audio and video solutions, wheeless telecommunications and video solutions, wheeless telecommunications.

nication modules, and car navigation systems (Cho. Bac, Cho. & Sah, 2006).

Background

Ford Motor began a manufacturing revolution with mean production assembly limes in the carly 20th century, and teday it is one of the world's largest automakers (but) Motor Company, 2014. The linkery of behaustor commerce thack to Henry Ford's older in 1908 to create easy transportation for everyday people. As teambles evolved from strictly a means of transportation to to tourist teams as lime went on, the development of in vehicle telecommunications, entertainment, and "indutainment" are the bandmarks of testay's automatics environment.

Table 13.1

Evolution of Automotive Telematics

In a GSMA study, the evolution of automotive telematics was cultimed:

was outlined:	
Telematics 1.0	Hands free calling and screen based navigation
Telematics 2.0	Portable navigation and satellite
	radio
Telematics 3.0	Introduction of comprehensive connectivity to the vehicle
Telematics 4.0	Seantless integration of molulity
	and the Web

Santarisino a DEMA (2012)

The Birth of the Car Radio

When that technological breakthrough in the trackthrous cost the cor makes. According to Gray (m.d.), "The first makes appeared in core in the 1906, line it want't until the 1950s that most cars contained AM radics." William Lear, who created the Lenje, alrecreated the first mass market car radio. The first F61

^{*} Assistant Professor, Lynn University (Social Ratery Florida)

What is Automotive Telematics?

Automotive Telematics can be defined as "the blending of computers and wireless telecommunications technologies"

(Rouse, 2007)

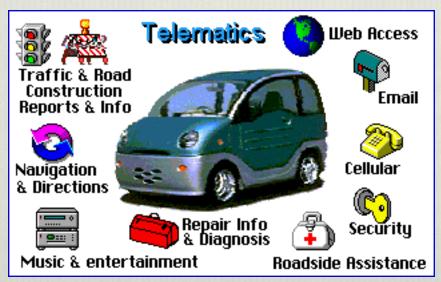
ABOUT TELEMATICS



- Telematics is essentially a range of different features, options and devices that are brought together by a single principle data and communication.
- Telematics enables you to get information about the location, movement, and state of your vehicle. It also enables your vehicle to communicate wirelessly, which opens up a wide range of services. (Coe, Prime, & Jest, 2014b).



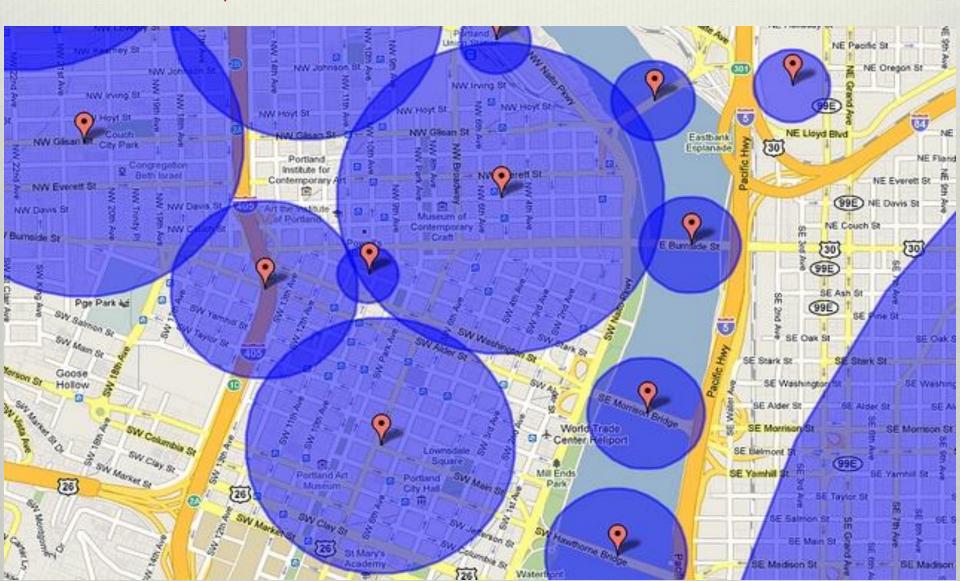
- ➤ Telematics makes your car safer, keeps you from getting lost, summons roadside assistance at the press of a button, routes you around accidents, and auto-dials 911 if you're in the accident.
- For most users, telematics means navigation, communications, safety, security, and increasing infotainment.



https://www.google.com/search?q=automotive+telematics&client=safari&rls=en&source=lnms&tb m=isch&sa=X&ved=0ahUKEwiRvYuznLfWAhVC4yYKHdoaCZgQ_AUICygC&biw=1432&bih=785 #imgrc=dSUUtiPh7jGtQM

> Fleet Management trends

http://www.automotive-fleet.com/article/photos/253838/2017-fleet-management-trends-telematics/13074.aspx



Still on the Rise...

- Self-Driving Cars
- Driverless UBER, car rental, food delivery...etc.
- Smart technology & Connectivity gone mad
- > Safety features e.g. Brake sensor technology







Murphy, E. (2017, November 23). Laowa 7.5mm f2, first exposure [Photograph]. *Flickr*. Retrieved from https://flic.kr/p/ZubjTc

NavigationTechnology

Electric Car Charging Stations

Härter, J. (2017, August 13). Bettermann Ladebox B3200 [Photograph].

Flickr. Retrieved from https://flic.kr/p/XvAJYz

Connectivity, Navigation, and Diagnostic Analysis

- **>** GM On-Star system
- > The Mercedes Benz mbrace,
- > BMW iDrive Vehicle Control System
- > Lexus Enform
- > Toyota Safety Connect
- > Ford Sync
- > Hyundai BlueLink
- > Infiniti Connection
- > Honda Link



Intel Free Press. (2013, January 3). Digital natives in car [Photograph]. Flickr. Retrieved from https://flic.kr/p/dH8unX

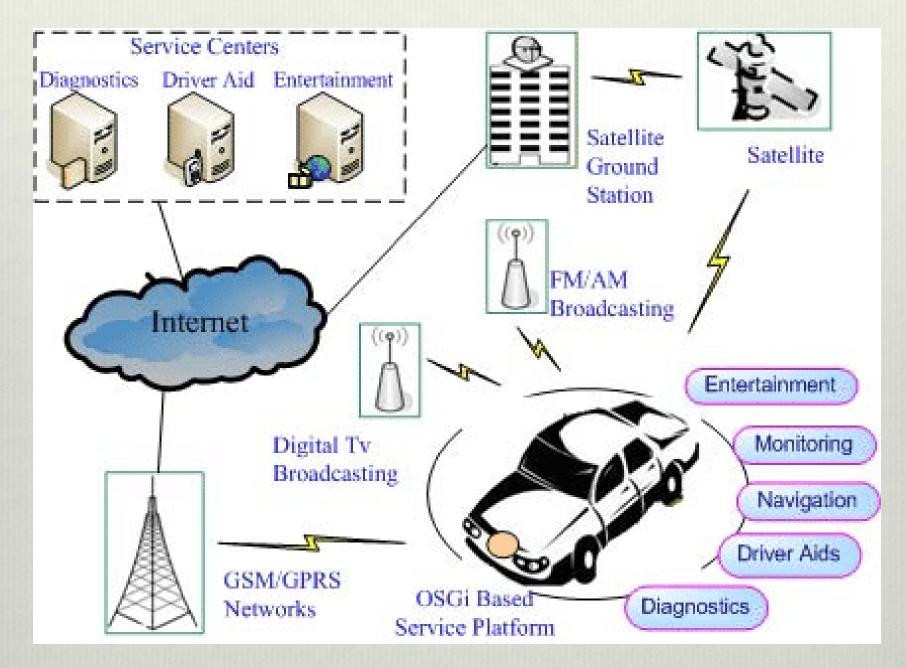


5G Technology



Intel Free Press. (2012, December 27). Auto in-dash display [Photograph]

. Flickr. Retrieved from https://flic.kr/p/dEM7kr



How Vehicle-to-Vehicle Communication Could Replace Traffic Lights and Shorten Commutes

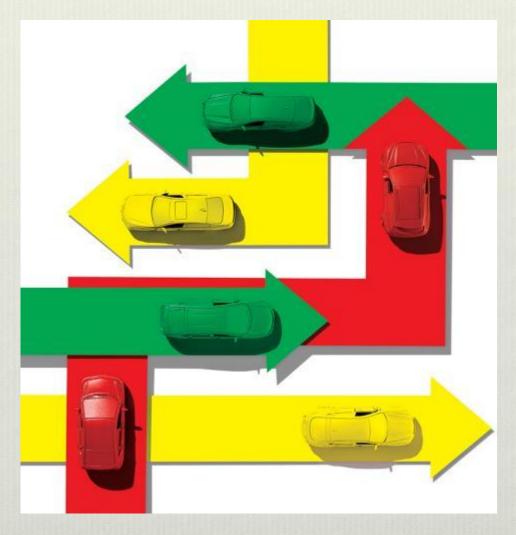
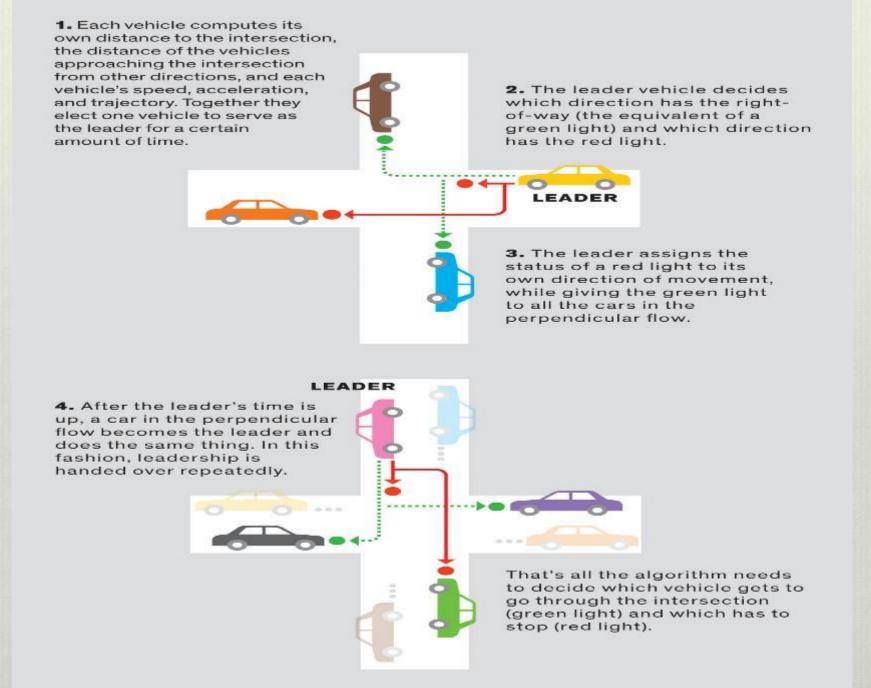


Photo: Dan Saelinger



??????????????? Don't we have this?



"Communication Technology Update and Fundamentals"

Is a great text and/or tool for any emerging media or technology course

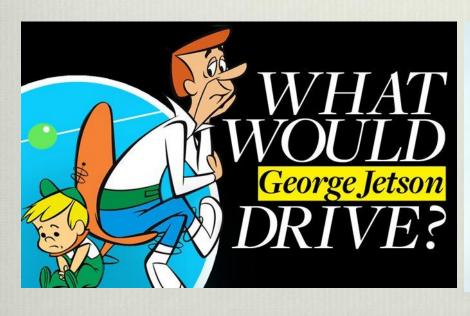
The Book is used as a supplemental text in our Communication and Emerging Media Major course:

COM 244- Development of Technology in Communication

In Conclusion...

Keep updated with us...

What's next?





Thank you!