

TRABAJO FIN DE MÁSTER (Master's Thesis)

Sustainable Development Goals for local tourism destinations. Insights from the Canary Islands

Los Objetivos de Desarrollo Sostenible para los destinos turísticos. Perspetivas desde Canarias

> Autora: Sara García González

Tutor: Raúl Hernández Martín

Máster Universitario en Dirección y Planificación del Turismo Escuela de Doctorado y Posgrado de la Universidad de La Laguna Curso Académico 2020/2021

Abstract:

In recent years sustainability has become an essential aspect when making decisions in favor of the development of society. For this reason, the United Nations approved the Sustainable Development Goals in 2015 to ensure a prosperous future for all. Tourism activity, due to the great weight that it has in many countries, cannot develop its plans without taking sustainable development into account, and therefore it is necessary to establish a relationship between tourism and the Sustainable Development Goals, which is the objective of this work. For this, the monitoring actions carried out by different destinations, both internationally and locally, regarding the application of the SDGs have been analyzed, to later make a proposal of indicators applicable to the area of the Canary Islands and evaluate the performance of the archipelago in terms of to them. The analysis carried out has shown that, although the official discourse insists on the contribution of tourism to the SDGs, measuring this contribution is not at all simple.

- Keywords: Sustainable Development Goals, tourism, indicators, sustainability.

Resumen:

La sostenibilidad se ha convertido en los últimos tiempos en un aspecto esencial a la hora la toma de decisiones a favor del desarrollo de la sociedad. Por ese motivo Naciones Unidas aprobó en 2015 los Objetivos de desarrollo sostenible con la finalidad de asegurar un futuro prospero para todos. La actividad turística, debido al gran peso que tiene en numerosos países no puede elaborar sus estrategias sin tener en cuenta el desarrollo sostenible, y por ello se hace necesario establecer una relación entre el turismo y los Objetivos de Desarrollo Sostenible, lo cual es el objetivo de este trabajo. Para ello se han analizado las acciones de monitorización realizadas por diferentes destinos tanto a nivel internacional como local en cuanto a la aplicación de los ODS, para posteriormente realizar una propuesta de indicadores aplicables al ámbito de las Islas Canarias y evaluar el desempeño del archipiélago en cuanto a los mismos. El análisis realizado ha permitido comprobar, que aunque en el discurso oficial se señala con insistencia la contribución del turismo a los ODS, la medición de dicha contribución no resulta en absoluto sencilla¹.

 Palabras clave: Objetivos de Desarrollo Sostenible, turismo, indicadores, sostenibilidad.

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¹ This master's thesis has been written in English as an opportunity for the author to practice and improve her skills in that foreing language. Despite I have revised the text I would like to apoligise for the mistakes that may remain.

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1. Introduction

In recent years sustainability has become an important aspect to bear in mind in practically all aspects of society. Institutions, firms, non-governmental organizations, and even the citizens, have taken action on the matter with different initiatives. The United Nations, founded in 1945 with the aim of maintaining international peace and security, provide humanitarian assistance to those in need, protect human rights and uphold international law, has also made its contribution by launching the *Sustainable Development Goals* as part of their development plans.

Tourism has not been left behind either. Many destinations, companies, institutions, and organizations have considered sustainability when elaborating their strategies and policies. The World Tourism Organization, as an organization that takes action to make tourism a sustainable activity in all aspects that concern it, is also giving recommendations and tools.

For this reason, in this master's thesis developed from La Laguna University in the Canary Islands, the relation between Sustainable Development Goals and tourism is going to be analyzed, in order to check if the SDGs are being applied in the tourist activity of different destinations and organizations at the international and local scales (continents, countries, cities, institutions and organizations), and to analyze how the adaptation of SDGs to tourism has been established. Also, in this work a proposal for the measurement of SDGs in local tourism destinations will be proposed, as a contribution to the necessary adaptation of SDs to tourism destinations.

2. SDGs and tourism

The Sustainable Development Goals, also known as SDGs, were approved in 2015 by the Governments of the member countries of the United Nations, as part of the 2030 Agenda and linked with the Paris Climate Change Agreement. They consist of 17 main goals with 169 targets globally applicable and agreed by all 193 UN member states (World Tourism Organization (UNWTO), 2016). The aims of this initiative are to eradicate poverty, protect the planet and ensure prosperity for all. The intention is that these objectives are reached by 2030. These 17 goals are listed and briefly explained below.

Figure 1. Sustainable Development Goals



Source: United Nations Organization

- No poverty: eradicate extreme poverty, reduce the proportion of poor people, guarantee social protection for all, ensure access to the same resources for all and reduce vulnerability.
- 2. **Zero hunger:** end hunger and ensure access to healthy food for all, double agricultural production and the income of small-scale producers, investing in rural infrastructure and agricultural research.
- 3. Good health and well-being: reduce the global maternal mortality rate, end preventable child deaths, end epidemics and combat communicable diseases. Reduce mortality from non-communicable diseases, prevent and treat addictive substances, reduce deaths and injuries caused by traffic accidents, chemical products and pollution, and ensure universal access to healthcare.
- 4. Quality education: ensure the completion of primary education for all children, ensure access for all to quality higher education, increase the number of people trained for employment, ensure that students acquire knowledge about sustainable development, and promote more inclusive and safe facilities.
- **5. Gender equality:** put an end to discrimination and violence against women, eliminate child marriage and female genital mutilation, recognize unpaid domestic work, ensure

- the participation of women in the decision-making levels of politics, ensure reproductive rights and sexual health, promote gender equality and empowerment of women.
- 6. Clean water and sanitation: universal access to drinking water and sanitation and hygiene services. Improve water quality and management and promote its sustainable use.
- **7. Affordable and clean energy:** universal access to energy services, increase the use of renewable energy, improve energy efficiency and technology.
- 8. Decent work and economic growth: maintain economic growth and increase GDP in the least developed countries, achieve higher levels of productivity, policies that promote productive activities and the creation of quality employment, improve efficient production and consumption, reduce youth unemployment, protect rights work, promote sustainable tourism.
- 9. Industry, innovation and infrastructure: develop safe and sustainable infrastructures, promote sustainable industrialization, increase scientific research and improve the technological capacity of all countries especially in developing countries through financial aid.
- **10. Reduced inequalities:** achieve income growth for the poorest, enhance the social inclusion of all people, guarantee equal opportunities, improve the regulation of financial institutions and markets, facilitate migration and orderly mobility.
- 11. Sustainable cities and communities: ensure access for all to adequate housing and basic services, access to safe transportation systems and improve road safety, increase inclusive and sustainable urbanization, protect cultural and natural heritage, reduce deaths caused by disasters, and reduce negative environmental impact.
- 12. Responsible consumption and production: achieve sustainable management and efficient use of natural resources, reduce food waste, achieve ecological management of chemical products, reduce waste generation, ensure that everyone has knowledge about sustainable development, and promote sustainable tourism.
- **13. Climate action:** promote awareness of climate change, mobilize resources for its mitigation and strengthen the capacity to adapt to natural disasters.

- **14. Life below water:** protect and conserve marine and coastal ecosystems, promote their sustainable use and reduce the actions that may deteriorate them.
- **15. Life on land:** promote the conservation of ecosystems, habitats and terrestrial species and stop their degradation. Mobilize resources for their sustainable management.
- 16. Peace, justice and strong institutions: reduce violence and the death rate caused by it, end abuse and exploitation, promote the rule of law, fight crime and corruption, public access to information, apply non-discriminatory laws in favour of sustainable development.
- 17. Partnerships for the goals: mobilizing resources to improve the ability to collect tax revenues, ensure that developing countries meet their development commitments and support them to do so. Improve regional and international cooperation in science by fostering the exchange of knowledge, promoting the development of rational technologies and their transfusion to developing countries, and setting up a technology bank. Promote an open and equitable universal trade system, increase exports from developing countries.

Although there are three objectives that include the word *tourism* in their targets (World Tourism Organization, UNWTO, 2016), tourism has influence in most Sustainable Development Goals, since tourism is an activity that impacts directly and indirectly in all aspects of the economy, society and environment.

Tourism generated annually before the pandemic about 1,5 billion international arrivals (Gössling, S., 2021), but it is expected that this figure increases to 1,8 billion by 2030 (United Nations World Tourism Organization & United Nations Development Programme, 2017), in addition, it contributed 10,2% of the world GDP (WTTC, 2018).

Given these relevant figures and the economic significance of tourism worldwide, it has become necessary to study its sustainability and impacts considering its three perspectives, economic, socio-cultural and environmental (Rasoolimanesh et al., 2020). For this reason, the World Tourism Organization proposed in 2004 a list of Sustainable Tourism Indicators being aware of these three perspectives with the aim of monitoring tourism impacts, these indicators and recommendations for sustainable tourism development apply to all forms of tourism and destinations (UNTWO, 2004) (see in annex 1).

According to UNWTO the fundamental pillars of sustainable tourism are: 1. Make a correct use of environmental resources, with ecological processes and promoting the conservation of natural heritage and biodiversity, 2. Conserving the socio-cultural authenticity of communities, and their built and living heritage and values, 3. Ensure a viable economy in the long term with benefits to all stakeholders that are fairly distributed, contributing to employment and income earning and social services to host communities (UNTWO, 2004).

3. Scale of analysis of Sustainable Development Goals

The United Nations General Assembly with the support of the Sustainable Development Solutions Network, an initiative for the United Nations, established monitoring for the implementation of the goals and its targets in 2016, for this, they elaborated a list of 230 indicators that can be globally applied. These indicators were mainly created to track the evolution of the performance of SDGs in countries or even in continents, but for the measurement of SDGs in cities or tourist destinations, it will be probably necessary a revision of the indicators.

3.1 International experience measuring SDGs at different scales of analysis

3.1.1 Europe

The European Union prepare each year a report to show how are its 27 members states after Brexit dealing with the implementation of SDGs and the Paris Climate Agreement. For the elaboration of this report, they worked together with the civil society, business trade unions and government representatives, including 113 indicators that come from the European Commission and non-official data sources as non-governmental organizations and academies.

The Sustainable Development Solutions Network (SDSN) and the Institute for European Environmental Policy (IEEP) have developed the EU SDG Index and Dashboards, where each country is scored from 0 to 100 according to their achievements regarding SDGs.

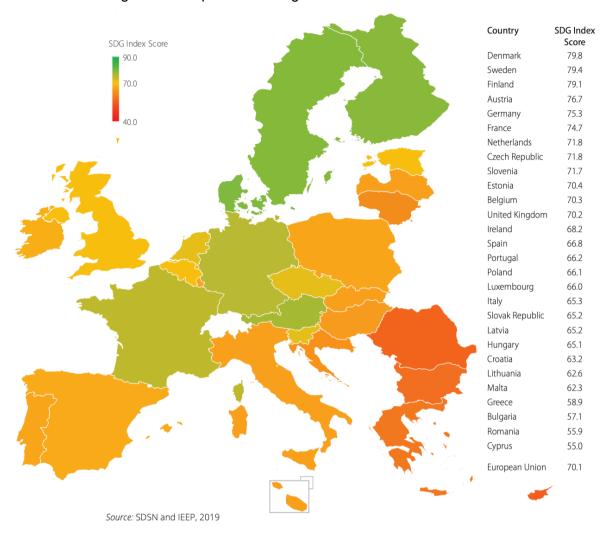


Figure 2. European Union's global achievement of the SDGs

Source: The 2019 Europe Sustainable Development Report

As it can be seen in the image, no EU member state has fully achieved SDGs goals, being Denmark, Sweden, and Finland on the top of the index with a score above 79 out of 100, on the other side are Greece, Bulgaria, Romania, and Cyprus being the countries with more work to do in the following years to achieve the SDGs. Spain is in the middle of the index with a score of 66.8 out of 100, which probably means that Spain has done a good job so far, but still have improvements and changes to be made.

As part of the index, they also made a dashboard that shows the 17 goals in relation to each country achievement, demonstrating how each country is dealing with the SDGs and what are their strong points and which ones they have to improve.

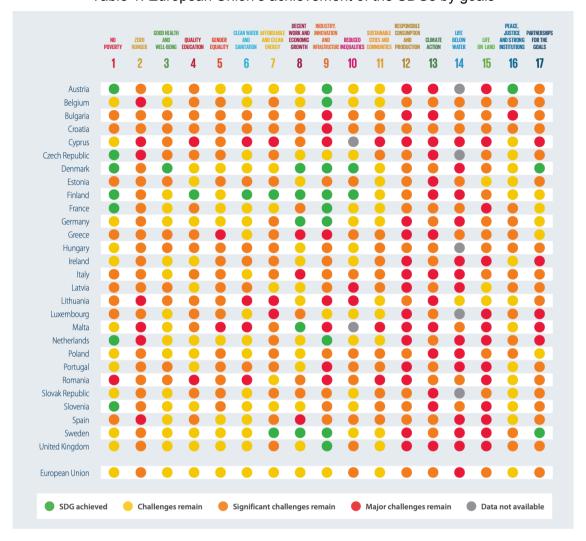


Table 1. European Union's achievement of the SDGs by goals

Source: The 2019 Europe Sustainable Development Report

As it is shown there are few countries with fully achieved goals (green), Denmark, Finland, and Sweden (the countries with the higher scores in the previous image) are the ones with more goals achieved. However the European set hasn't achieved any objective by the moment, so it can be deduced that there is still a long way to go.

3.1.2 United States

The Sustainable Development Solutions Network of the United States, a network of researchers, knowledge creators and thought leaders with the aim of mobilizing expertise on the SDGs in the United States, prepare each year a report that presents an overview of how cities are performing on the UN's Sustainable Development Goals. They use the same

indicators proposed by SDSN and UN but with some modifications in order to adapt to their analysis and not repeat any indicator. As well as in the European report, each city is given an overall score of 0 to 100, which can be interpreted as the percentual progress a city has made towards achieving the SDGs (Lynch, A. et al, 2019)

The results are shown in a dashboard divided by colours, from red (poor performance), to orange (poor to moderate performance), yellow (moderate to good performance) and green (good performance, best performance, or in some cases, SDG attainment) and are divided by States and goals. (Lynch, A. et al, 2019).

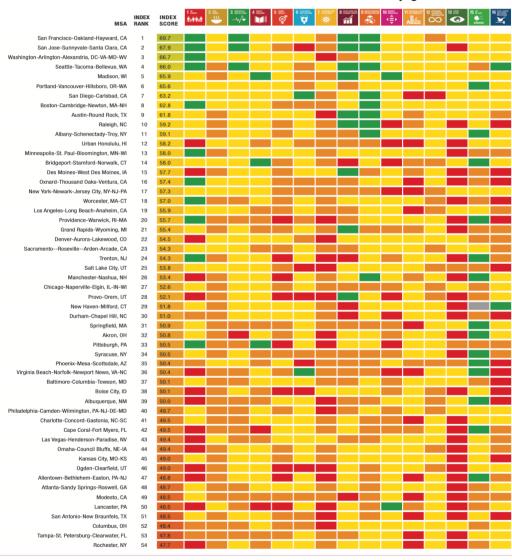
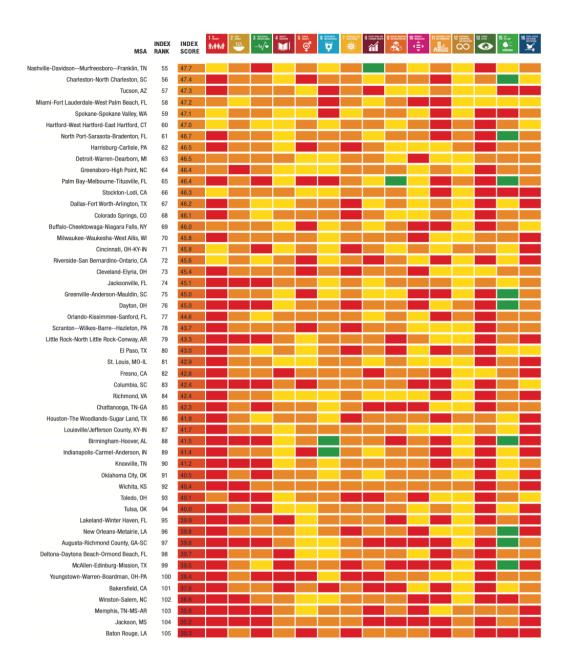


Table 2. United States' achievement of the SDGs by goals



Source: The 2019 US Cities Sustainable Development Report

In this case, the cities with higher scores are San Francisco-Oakland-Hayward, San Jose-Sunnyvale-Santa Clara, and Washington-Arlington-Alexandria with a score above 66 out of 100, and the objective more achieved by the cities is objective 15, life on land.

3.1.3 Italy

Each UN state member has the duty of drafting their own National Strategy for Sustainable Development. However, in the case of Italy, the Council of Ministers have considered to delegate this duty to the regions, provinces, and cities, so they can make their own planning agenda, since the heterogeneity of the Italian peninsula makes it difficult to implement one single strategy. As the OECD report says, Italy has only reached 12 of 169 targets, but at the same time, they are close to the achievement of others.

The indicators used for the dashboard were the ones proposed by the SDSN and UN, and it was analyzed by goal in each city, but the cities did not receive a score as it is seen in other reports. The goals are rated from 0% to 100% of achievement and divided into four grades with colours: green (80-100), yellow (50-80), orange (20-50) and red (0-20).

AGRIGENTO ALESSANDRIA ANCONA AREZZO ASCOLI PICENO AVELLING BARI BELLUNO BENEVENTO BERGAMO BIELLA BOLOGNA BRESCIA BRINDISI CAMPOBASSO CATANIA CATANZARO CHIETI сомо 44,3% 55,9% 30,2% 77,0% 68,6% COSENZA CROTONE CUNEO FERRARA FIRENZE FOGGIA FORLÌ FROSINO GENOVA GORIZIA GROSSETC IMPERIA ISERNIA L'AQUILA LA SPEZIA LATINA LECCE LECCO LODI LUCCA

Table 3. Italy's achievement of the SDGs by goals

City	1 Noon	2 2780 HMER ************************************	School-eath and well-bond —///*	QAALITY EEECATION	5 GOMER EQUALITY	GEASTANTE AND SANTATION	7 AFFORSABILAND CLEANESERDY	8 DECENTINGS AND ECONOMIC GROWTH	9 HUSTRY IMPOULTER ARCHITECTURE	10 HERDORD HERRALITIES ← ♣ →	11 SESTANDE OTES ADDIMENTES	12 REPUBBLE CONSIDERATION	13 CLIMATE ACTION	15	16 PEASE JUSTICE AND STRENG	17 RECINESSEPS FOR THE GOALS
MACERATA	83,1%	31,1%	74,4%	45,6%	79,0%	76,6%	36,9%	56,9%	31,9%	55,9%	75,8%	83,5%	81,4%	42,2%	54,1%	63,4%
MANTOVA	91,4%	61,5%	57,1%	58,9%	62,3%	92,4%	25,5%	55,0%	42,2%	55,9%	61,9%	84,2%	63,1%	55,2%	67,8%	86,4%
MASSA	69,5%	44,2%	67,2%	35,6%	52,3%	54,7%	13,4%	37,4%	7,1%	28,8%	52,2%	10,7%	58,5%	45,8%	42,0%	42,3%
MATERA	69,2%	3,8%	75,5%	42,4%	51,8%	72,3%	53,5%	43,9%	31,9%	50,5%	78,6%	45,7%	69,0%	89,4%	28,9%	89,3%
MESSINA	24,6%	4,5%	34,1%	20,2%	56,6%	64,0%	2,9%	23,6%	21,6%	33,2%	52,6%	35,3%	73,8%	50,9%	5,6%	47,8%
MILANO	86,2%	47,9%	51,1%	47,6%	84,9%	91,7%	11,3%	79,8%	100,0%	55,9%	37,0%	67,3%	68,0%	15,1%	66,3%	43,1%
MODENA	100,0%	66,5%	58,8%	48,7%	70,3%	81,5%	30,4%	67,8%	48,4%	58,1%	50,8%	42,7%	61,7%	15,8%	55,4%	66,2%
MONZA	98,6%	43,6%	63,7%	50,9%	71,1%	94,0%	17,6%	74,5%	29,8%	55,9%	39,0%	80,2%	65,7%	58,1%	81,1%	71,8%
NAPOLI	13,2%	0,9%	27,0%	14,8%	39,4%	74,5%	9,2%	10,2%	23,6%	50,7%	38,9%	47,1%	93,4%	50,8%	30,1%	41,4%
NOVARA	93,0%	36,7%	53,2%	45,0%	57,3%	85,6%	17,5%	47,3%	21,6%	51,5%	50,7%	86,8%	69,1%	51,1%	71,2%	81,8%
NUORO	70,2%	66,4%	68,3%	43,8%	73,9%	72,8%	14,1%	40,1%	42,2%	53,2%	66,1%	89,5%	50,0%	53,1%	39,1%	88,6%
ORISTANO	67,2%	50,0%	65,8%	24,5%	69,5%	67,0%	44,7%	38,4%	50,5%	52,1%	81,8%	77,3%	49,0%	55,1%	18,5%	62,5%
PADOVA	87,6%	56,6%	60,0%	62,8%	79,1%	71,6%	66,1%	75,9%	48,4%	58,8%	47,1%	50,6%	55,8%	4,2%	64,3%	87,9%
PALERMO	14,2%	9,3%	36,9%	16,1%	46,1%	39,2%	11,1%	8,6%	29,8%	52,1%	57,5%	26,8%	73,6%	50,7%	30,0%	63,5%
PARMA	98,2%	76,9%	67,0%	50,2%	77,5%	75,6%	39,2%	68,4%	69,0%	52,9%	47,6%	73,9%	42,3%	12,2%	50,5%	69,2%
PAVIA	90,8%	67,3%	42,3%	55,4%	86,9%	90,1%	13,0%	75,1%	56,7%	52,5%	43,7%	61,0%	69,3%	52,2%	53,0%	82,5%
PERUGIA	83,5%	48,1%	72,1%	53,2%	72,6%	60,0%	36,2%	58,3%	73,2%	51,0%	63,5%	61,1%	67,6%	8,5%	49,5%	54,0%
PESARO	85,8%	28,0%	76,9%	48,0%	70,2%	72,3%	33,7%	55,9%	15,4%	56,4%	67,6%	36,2%	74,6%	37,7%	67,1%	54,9%
PESCARA	60,9%	11,4%	66,9%	30,4%	65,5%	58,7%	28,4%	57,3%	15,4%	58,0%	56,8%	39,7%	63,3%	27,7%	58,0%	59,7%
PIACENZA	94,7%	32,5%	60,4%	61,2%	63,5%	87,9%	47,2%	58,3%	40,1%	54,6%	55,2%	36,3%	15,9%	43,1%	45,7%	87,6%
PISA	80,0%	50,7%	58,8%	36,9%	85,9%	60,8%	17,9%	64,6%	46,3%	58,6%	60,0%	39,0%	53,4%	39,2%	58,2%	39,8%
PISTOIA	89,8%	38,6%	75,8%	34,9%	64.8%	16,6%	5.1%	43,5%	9,2%	8,6%	55,4%	39,9%	60,9%	51,9%	61,7%	48,7%
PORDENONE	94,2%	58,7%	72,8%	58,5%	64,7%	63,8%	48,6%	60,0%	27,8%	60,8%	61,3%	84,1%	55,7%	62,9%	72,5%	82,0%
POTENZA	74,9%	3,8%	52,6%	35,9%	65,2%	66,7%	11,4%	49,4%	34.0%	37.3%	73.5%	84.3%	68.9%	57.8%	46.9%	56.9%
PRATO	77,4%	41,6%	66,9%	40,7%	55,6%	65,1%	64,9%	38,5%	15,4%	58,6%	60,4%	57,3%	65,4%	52,9%	70,2%	61,9%
RAGUSA	46.7%	4.5%	52,3%	29,3%	53,9%	68,5%	41.6%	32,5%	0.0%	48.1%	75.9%	54,4%	73,8%	52.0%	27.6%	83.5%
RAVENNA	91,2%	76,9%	72,2%	57,1%	61,6%	80,6%	70,8%	44,1%	23,6%	47,2%	58,8%	30,3%	14,4%	46,5%	75,7%	36,3%
REGGIO DI CALABRIA	32.4%	6.1%	49.3%	29.9%	62.4%	72.3%	3.0%	36,7%	34.0%	3.1%	68.4%	70.4%	79.3%	12.0%	24.4%	59.1%
REGGIO NELL'EMILIA	93,4%	31,0%	62,0%	47,0%	58,0%	60,9%	23,3%	53,9%	42,2%	56,9%	48,4%	55,8%	14,4%	42,8%	52,4%	72,6%
RIETI	82,1%	56,5%	75,1%	39,0%	71,3%	44,2%	9,8%	53,5%	48,4%	27,0%	69,2%	43,0%	68,8%	44,2%	52,2%	68,3%
RIMINI	68,8%	40.6%	66.6%	52.5%	68.1%	78,2%	34.0%	43.8%	42,2%	58.7%	55.6%	40,5%	18.3%	49.5%	63.0%	84,7%
ROMA	68,4%	31,5%	48,4%	44,6%	74,8%	55,7%	13,0%	66,4%	100,0%	49,4%	53,8%	42,8%	73,6%	4,2%	44,3%	51,6%
ROVIGO	89,9%	30,3%	55,4%	53,2%	74.3%	65,1%	29,7%	57,9%	23,6%	40,4%	51,1%	58,4%	67,8%	53,5%	52,1%	67.1%
SALERNO	59,9%	0.0%	39.2%	39.8%	68.1%	71.6%	42,2%	48,5%	17.4%	42.0%	45,8%	72,4%	90,5%	51.5%	64.8%	86.2%
SASSARI	50,4%	50,0%	59,7%	34,3%	65,1%	63,0%	15,8%	30,4%	44,3%	45,7%	65,5%	65,7%	48,5%	51,3%	44,2%	59,8%
SAVONA	84,6%	35,2%	53,2%	47,5%	59,8%	83,0%	2,0%	52,7%	50,5%	45,3%	63,0%	49,5%	57,5%	50,1%	55,2%	86,7%
SIENA	100.0%	38,6%	62,6%	46,9%	83,7%	82,0%	2,2%	71.8%	93,8%	54,0%	43,2%	31,4%	77.5%	30,3%	64,2%	63,7%
SIRACUSA	33.1%	4.5%	39.1%	29.8%	44.2%	58,0%	19.3%	17.3%	3.0%	52.1%	63.4%	48,4%	73,6%	50,2%	18.7%	88.1%
SONDRIO	92,3%	68,2%	65,9%	49.1%	61.3%	90,9%	16.4%	65,3%	0.0%	43,3%	67.0%	79.2%	66,3%	88,0%	57.4%	69,9%
TARANTO	36,1%	8.0%	63,6%	26,7%	36,1%	53,9%	39,7%	22,2%	62,8%	55,9%	70,8%	31,1%	50,3%	50,9%	37,9%	39,6%
TERAMO	73,2%	11,4%	75,2%	36,8%	68.0%	85,5%	34.6%	53.4%	27,8%	14.9%	65.9%	81,2%	82,6%	51,4%	50,9%	60,9%
TERNI	79.3%	19.3%	72,4%	41.9%	64.2%	54,4%	31.6%	47,5%	38,1%	51.0%	49.8%	83.9%	67.2%	46,2%	68.0%	50.3%
TORINO	77,3%	86,7%	51,3%	39,2%	68,6%	86,0%	17,1%	53,1%	77,3%	59,5%	31,0%	56,1%	68,3%	52,0%	74,7%	51,1%
TRAPANI	17,6%	4,5%	41,3%	24,6%	39,0%	52,8%	40,1%	8,0%	21,6%	44,6%	67,9%	31,5%	73,8%	50,0%	30,4%	64,9%
TRENTO	93,0%	71.1%	69.3%	52.3%	78,9%	82,6%	31.1%	68,2%	85,6%	48,8%	48,8%	88.1%	75,2%	93.6%	88.0%	78.0%
TREVISO	91.5%	39.6%	71.8%	51.8%	68.4%	13.0%	24.5%	76.2%	58.7%	57.6%	47,5%	89.5%	67.7%	51.6%	69.3%	79.2%
TRIESTE	87,0%	33,4%	62,3%	43,1%	81,3%	76,8%	23,6%	61,9%	100,0%	62,0%	64,9%	57,9%	60,3%	57,4%	65,2%	68,7%
UDINE	86.8%	37.1%	64.4%	60.8%	75.8%	81.6%	31.2%	63.7%	50.5%	62.0%	66.0%	62.8%	60.4%	46.6%	81.1%	88.8%
VARESE	89,9%	51,1%	53,1%	36.5%	69.7%	59,2%	9.3%	64.0%	42,2%	47,9%	53,2%	75,2%	70,3%	51.5%	68,8%	76,3%
*/IIICOL	33,370	31,1/0	33,1%	30,3%	33,1 %	33,270	0,070	04,070	+2,2/0	+1,5%	33,270	, 5,2/0	,0,5%	31,370	30,0%	10,070

City	1 Novem Propert	2 ZERO HAMBER	3 COORDIEALTH AND WELL-BEING 	QUALITY EDUCATION	SOCIAL EQUALITY	GLEAN MATER AND SANDATION	7 HETOREAGE AND DEAN CHESTY	B DECENT MERK AND ECONOMIC GROWTH	9 HOUSTRY HACKITEN AND HATCH STRUCTURE	10 HEDDED HEQUALITIES (♣)	11 SESTANGUE CITES AND COMMUNITES ALLE	12 REPYNSELE COO	13 CLINATE ACTEN	15 LIFE ON LAND	16 PEASE JUSTICE AND STRONG	17 MACRIESHPS FOR THE GOALS
VENEZIA	90,2%	37,0%	67,2%	45,7%	65,2%	31,7%	8,6%	63,9%	100,0%	51,3%	40,6%	49,6%	53,5%	41,5%	60,6%	56,4%
VERBANIA	79,9%	36,7%	59,5%	48,2%	53,1%	71,9%	11,1%	34,6%	19,5%	46,3%	61,3%	66,3%	65,4%	62,4%	74,4%	27,2%
VERCELLI	88,2%	44,8%	56,6%	42,6%	53,5%	87,2%	19,1%	47,1%	3,0%	59,5%	58,8%	65,0%	69,2%	55,2%	58,9%	91,8%
VERONA	88,8%	54,7%	60,1%	53,9%	70,7%	52,0%	32,0%	59,3%	42,2%	59,3%	52,1%	55,8%	65,1%	31,4%	80,8%	72,5%
VIBO VALENTIA	30,1%	6,1%	66,7%	24,6%	57,6%	60,1%	24,3%	43,5%	0,9%	47,9%	54,2%	47,2%	69,1%	52,2%	37,5%	82,4%
VICENZA	88,6%	35,0%	64,8%	53,8%	59,9%	81,4%	25,0%	64,8%	31,9%	61,1%	47,9%	65,3%	59,7%	52,1%	43,7%	79,3%
VITERBO	66,4%	29,9%	35,7%	39,0%	63,5%	52,8%	34,7%	52,6%	17,4%	32,2%	71,6%	77,8%	76,0%	51,8%	58,8%	63,0%

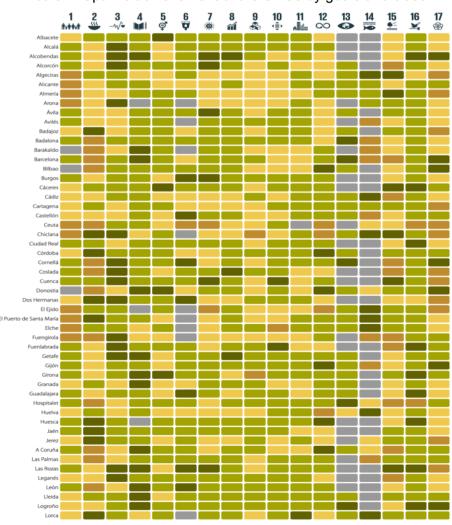
Source: The SDSN Italia SDGs city index two years later: Update report. (2020)

Goal 1, no poverty, is the one with higher results, being the goal most achieved by Italian regions, it is followed by Goal 6, clean water and sanitation, with 29 cities that have achieved the goal. On the other hand, the less achieved goals are 3, 4 and 10, with no city in green.

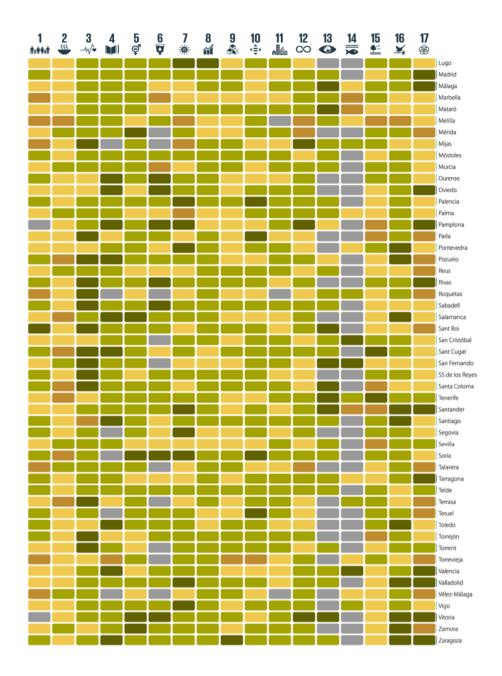
3.1.4 Spain

In the case of Spain, they have elaborated a report where 103 Spanish cities are analyzed, these 103 cities include the province capitals, administrative capitals of the autonomous communities, autonomous cities and cities with more than 80,000 inhabitants. The indicators that were used for this report were taken from the ones proposed by the United Nations in 2015, as they did in the previous report of 2018 (85 indicators), this report has the novelty of the introduction of 21 new indicators proposed by professionals.

There are two dashboards of results, one of them is divided by cities and measures the achievement of the DGSs scoring it by colours, from dark green (total achieved) to brown (not achieved), light green and yellow are intermediate levels. The second dashboard shows the total of cities that achieved each SDG, in this case giving colours from green to red, showing the total of Spain.



Tbale 4. Spain's achievement of the SDGs by goals and cities



Source: REDS, 2020. Los ODS en 100 ciudades españolas

Table 5. Spain's global achievement of the SDGs by goals

	España SDG Index	N	Número de ciudades por rango					
	2020							
T DE LA POBREZA	Ť 🛑	1	42	38	17	5		
2 HAMBRE CERO		9	20	53	21	0		
3 Y BIENESTAR —W		28	51	23	1	0		
EDUCACIÓN DE CALIDAD		22	63	8	1	9		
5 IGUALDAD P		9	63	31	0	0		
6 AGUA LIMPIA SANEAMIENTO		14	48	19	3	19		
7 ASEQUIBLE Y NO CONTAMINANTE		15	51	32	5	0		
8 TRABAJO DECENTE Y CRECIMIENTO ECONÓMICO		4	75	24	0	0		
9 INDUSTRIA, INNOVACIÓN E INFRAESTRUCTURA		1	50	49	3	0		
10 REDUCCIÓN DE LAS DESIGUALDADES		6	62	33	2	0		
COMUNIDADES Y COMUNIDADES SOSTENIBLES		1	67	31	0	4		
12 PRODUCCIÓN Y CONSUMO RESPONSABLES		9	56	31	7	0		
ACCIÓN POR EL CLIMA		13	46	3	0	41		
14 SUBMARINA		11	9	12	11	60		
15 DE ECOSISTEMAS TERRESTRES		8	34	44	17	0		
16 PAZ, JUSTICIA E INSTITUCIONES SÓLIDAS		19	68	13	3	0		
17 ALIANZAS PARA LOGRAR LOS OBJETIVOS		18	17	44	24	0		

Source: REDS, 2020. Los ODS en 100 ciudades españolas

As it can be seen in the second image, Spain as a unique destination has not achieved fully any SDG, but they show good results in SDGs 3 and 4, being the goals with more green cities and with an important number of yellow ones. These two goals are followed by goals 16 and 17 with 19 and 18 cities that have achieved them respectively.

3.2 Experience measuring SDGs in the Canary Islands

3.2.1 ISTAC

The Institute of Statistics of the Canary Island (ISTAC), the organization in charge of the data compilation, transfer and analysis, has included the SDGs in its agenda in order to establish and measure the SDGs in the Canary Islands scope. The project itself consists in the

application of indicators proposed by the United Nations to the regional level and the compilation of the necessary data from official sources in the Canary Islands. All the indicators can be consulted on their website, however, there are some indicators that are not available yet because they are facing a lack of data, nonetheless, they ensure more information will be available soon, since they are analyzing several official sources and they are disposed to undertake new statistics in order to satisfy this lack of data.

The indicators are divided by goals, there are specifically 48 indicators available out of 249 proposed:

Table 6. ISTAC's SDGs indicators by goals

Goal 1: No poverty	Proportion of the population living below the
	national poverty line, disaggregated by sex
	and age
	Proportion of men, women and children of
	all ages living in poverty, in all its
	dimensions
	Number of dead, missing and affected
	people directly attributed to disasters per
	100,000 inhabitants
	Prevalence of malnutrition (weight for
Goal 2: Zero hunger	height, standard deviation> +2 or <-2 from
	the median of the WHO Child Growth
	Standards) among children under 5 years of
	age, disaggregated by type (wasting and
	overweight)
	Proportion of agricultural area where
	productive and sustainable agriculture is
	practiced
Goal 3: Good health and well-being	Maternal mortality rate
	Proportion of births attended by specialized
	health personnel
	Mortality rate for children under 5 years of
	age
	Neonatal mortality rate

	Number of people requiring interventions			
	against neglected tropical diseases			
	Mortality rate attributed to cardiovascular			
	disease, cancer, diabetes or chronic			
	respiratory diseases			
	Suicide mortality rate			
	Death rate from injuries due to traffic			
	accidents			
	Adolescent fertility rate (10-14 years and			
	15-19 years) per 1,000 women in that age			
	group			
	Coverage of essential health services			
	Mortality rate attributed to involuntary			
	poisonings			
	Prevalence of current tobacco use from 15			
	years of age			
	Density and distribution of health personnel			
Goal 4: Quality education	Participation rate of youth and adults in			
	academic and non-academic education and			
	training in the last 12 months, broken down			
	by sex			
	Proportion of youth and adults with			
	information and communication technology			
	skills, broken down by type of technical skill			
	Parity indices (between women and men,			
	rural and urban areas, upper and lower			
	wealth quintiles, and groups such as the			
	disabled, indigenous peoples and those			
	affected by conflict) for all education			
	indicators in this list that can be broken			
	down			
Goal 5:Gender equality	Proportion of time spent on unpaid care and			
	domestic work, disaggregated by sex, age			
	and location			
	Proportion of women in managerial			
	positions			

	Proportion of the total agricultural
	population with secure property rights or
	rights to agricultural land, disaggregated by
	sex
	Proportion of women among owners or
	holders of agricultural land rights,
	disaggregated by type of tenure
	Proportion of people who own a mobile
	phone, broken down by sex
	No indicator available at the moment
Goal 6: Clean water and sanitation	
Goal 7: Affordable and clean energy	No indicator available at the moment
Goal 8: Decent work and economic growth	Annual growth rate of real GDP per capita
	Annual growth rate of real GDP per person
	employed
	Average hourly earnings of male and
	female employees, broken down by
	occupation, age and persons with
	disabilities
	Unemployment rate, broken down by sex,
	age and people with disabilities
	Proportion of young people (ages 15-24)
	who are not in education, not employed, or
	receiving training
Goal 9: Industry, innovation and	Manufacturing sector added value in
infrastructure	proportion to GDP and per capita
	Manufacturing sector employment as a
	proportion of total employment
	CO2 emissions per unit of added value
	Research and development expenditures
	as a proportion of GDP
	Number of researchers (in full-time

Goal 10: Reduced inequalities	Per capita growth rates of household
	income or expenditure of the poorest 40%
	of the population and the total population
	Proportion of people living below 50% of
	median income, disaggregated by sex, age
	and persons with disabilities
	Share of GDP generated by work
Goal 11: Sustainable cities and	Proportion of urban population living in
communities	slums, informal settlements, or inadequate
	housing
	Number of dead, missing and affected
	people directly attributed to disasters per
	100,000 people
	Proportion of urban solid waste collected
	periodically and with an adequate final
	discharge in relation to the total urban solid
	waste generated, broken down by city
Goal 12: Responsible consumption and	National recycling rate, in tons of recycled
production	material
Goal 13: Climate action	Number of dead, missing and affected
	people directly attributed to disasters per
	100,000 people
	Total greenhouse gas emissions per year
Goal 14: Life below water	No indicator available at the moment
Goal 15: Life on land	No indicator available at the moment
Goal 16: Peace, justice and strong	Proportion of the population that feels safe
institutions	walking alone in their area of residence
Goal 17: Partnerships for the goals	Total government revenue as a proportion
	of GDP, broken down by source
	Proportion of people using the Internet

Source: Own elaboration from ISTAC

3.2.2 Ashotel

Ashotel, the hotel association of the province of Santa Cruz de Tenerife, has prepared a dashboard with indicators proposed by their Tourism Competitiveness and Sustainable Development Observatory in order to measure the sustainability and competitiveness of the tourism sector of the province of Santa Cruz de Tenerife, as part of this dashboard they have included a section about the SDGs, collecting several indicators previously proposed by United Nations and adapted by ISTAC to measure the accomplishment of the SDGs in the Canary Islands. All the indicators we can find in the SDGs section are the same ones that can be found in ISTAC, since it is the main source of data in the Canary Islands.

3.2.3 Tourism observatory of the Canary Islands - INSTO

At the research institutions, the measurement of SDGs has also been studied in relation to tourist activity. The two public universities of the Canary Islands (Universidad de La Laguna and Universidad de Las Palmas de Gran Canaria) have collaborated to prepare a document for the vice-ministry of Tourism of the Canary Islands that served as a candidature for the approval of the Tourism Observatory of the Canary Islands. In this document, they defined 16 key issues areas that were related to the SDGs, and later several indicators were created and related to each key issue, what helps to analyze the local achievement of the SDGs in tourism indirectly.

Table 7. Tourism Observatory of the Canary Island document's SDGs indicators by key issues

Key issue areas in the Canary Islands	Indicators related to the key issues	UN Sustainable Development Goals related	Targets
		to the key issues	
1. Local satisfaction	- Support for tourism	Goal 8. Promote sustained,	8.9
with tourism and local	development	inclusive and sustainable	
well-being	 Perception of 	economic growth, full and	
	tourism impacts	productive employment and	
		decent work for all	

	- Environmental awareness	Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	9.1
		Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable	11.3
		Goal 12. Ensure sustainable consumption and production patterns	12.b
2. Labor skills, entrepreneurship and employment	employment - Over and under qualification in tourism - Index of creation and survival rate of startups in tourism	Goal 4. Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all Goal 5. Achieve gender equality and empower all women and girls Goal 8. Promote sustained, inclusive and sustainable	4.3, 4.4, 4.5 5.5 8.3, 8.5, 8.6, 8.8,
		economic growth, full and productive employment and decent work for all	8.9
		Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	9.5
3. Destination innovation,	- Employment conditions	Goal 8. Promote sustained, inclusive and sustainable	8.2, 8.3

economic impacts and benefits	 Distribution of local value added related to tourist expenditure Research, development and innovation investments and results in tourism-related firms 	economic growth, full and productive employment and decent work for all Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	9.1, 9.5
		Goal 12. Ensure sustainable consumption and production patterns	12.b
		Goal 17. Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development	17.8, 17.19
4. Tourism seasonality	- Tourism demand in high season and low season	Goal 12. Ensure sustainable consumption and production patterns	12.b
-	 Seasonality of inbound countries of residence Seasonality of islands and municipalities 	Goal 13. Take urgent action to combat climate change and its impacts	13.1
5. Tourism products, culture, leisure and tourist satisfaction	 Overall tourist satisfaction Satisfaction of tourists with nature, culture, sport and leisure activities 	Goal 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	9.1
	ाटाठवां ट वट्सिंगसिंह	Goal 11. Make cities and	11.4

	-	Supply and demand of nature, culture, sport and leisure activities	human settlements inclusive, safe, resilient and sustainable	
		and events	Goal 12. Ensure sustainable consumption and production patterns	12.2
			Goal 14. Conserve and sustainably use the oceans, seas and marine resources for sustainable development	All targets
			Goal 15. Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss	All targets
6. Digitalization, knowledge and smart tourism	-	Infrastructure and connectivity Presence and use of the internet Key technologies	Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all	7.2
		and digital talent	Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	8.2
			Goal 9. Build resilient infrastructure, promote inclusive and sustainable	9.4, 9.5

		industrialization and foster innovation	
		Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable	11.2, 11.3
		Goal 12. Ensure sustainable consumption and production patterns	12.2
		Goal 17. Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development	17.7, 17.8
7. Energy management	 Renewable energy share in primary energy utilization Share of energy consumption by economic sectors 	Goal 7. Ensure access to affordable, reliable, sustainable and modern energy for all	All targets
8. Water and wastewater management	 Total volume consumed and litres per tourist per day Water awareness 	Goal 6. Ensure availability and sustainable management of water and sanitation for all	All targets
among enterprises - Recycled water efforts	•	Goal 12. Ensure sustainable consumption and production patterns	12.2
9. Solid waste management	- Mixed waste volume produced	Goal 11. Make cities and human settlements	11.6

	-	by destinations (pressure) Waste management awareness in tourism Volume of sorted waste (recycling effort)	inclusive, safe, resilient and sustainable Goal 12. Ensure sustainable consumption and production patterns	12.4, 12.5
10. Climate change impacts and mitigation	-	Total greenhouse gases emissions Per capita greenhouse gases	Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable	11.b, 11.6
	emissions - Share of greenhouse gases emissions by	Goal 12. Ensure sustainable consumption and production patterns	12.4	
		economic sectors	Goal 13. Take urgent action to combat climate change and its impacts	All targets
11. Governance and the territorial scale of analysis and policies	- - -	Government effectiveness Participation Communication	Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable	11.b
		and responsibility	Goal 17. Strengthen the means of implementation and revitalize the Global Partnership for Sustainable Development	17.14, 17.17
12. Air transport connectivity and intermediation	-	Number and frequency of direct routes from airports	Goal 9. Build resilient infrastructure, promote inclusive and sustainable	9.1

	in the Canary Islands - The share of distribution channels and the number of operators - Monthly airline scheduled capacity	industrialization and foster innovation Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable	11.2
13. Overtourism, vacation homes and mass tourism	 Level of tourist satisfaction Level of fidelity Percentage of holiday rentals in relation to the hotel and non-hotel supply 	Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable	11.3
14. Maturity of the destination and renovation	 Investment in new tourism assets Tourism renovation investment Renovated tourist bed places 	Goal 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable	11.3
15. Natural capital supporting tourism. Protected areas and fragile Ecosystems	- Percentage of protected land exhibiting high conser- vation status (according	Goal 6. Ensure availability and sustainable management of water and sanitation for all Goal 12. Ensure sustainable	12.2

	criteria) - Number and percentage of flagship species for tourism (birds, marine mammals, rep- tiles) that are threatened - of protected areas having effective management (conservation head and staff, annual plan being - Number and Goal 1 sustain seas a for sus and pr use of ecosy sustain comba halt ar degrae	4. Conserve and 14.2 hably use the oceans, and marine resources stainable development 5. Protect, restore omote sustainable terrestrial
16. Universal accessibility and inclusiveness	the accessibility and inclusiveness importance Infrastructure accessibility forms Goal 9 infrast	End poverty in all its everywhere Build resilient 9.1, 9.2 ructure, promote ve and sustainable rialization and foster tion

-	accessibility Assistance assured	Goal 10. Reduce inequality within and among countries	10.2
		Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable	11.2, 1.3, 11.7

Source: Tourism Observatory of the Canary Islands. Preliminary report (2020)

3.3 Certifications: Biosphere

Biosphere is an international organization for Sustainable Tourism co-financed by the Canary Islands government, the Spanish government and the European Union. They develop certifications with the aim of guaranteeing the accomplishment of the sustainability requirements and its continuous improvement, through a private, voluntary and independent certification system. Their certifications can be applied to any destination, and all of them are committed to guaranteeing continuous improvement to adequately balance between the areas of fight against climate change, environment, cultural, social and economic, through the 17 United Nations Sustainable Development Goals. They offer several certifications that concerned parties can apply for (accommodation, tour-operators, active tourism, tourist interest sites, commerce, transports, restoration, theme parks, golf, events and destinations) but the one that is more relevant here is the destination certification.

Requirements related to the SDGs to obtain the biosphere destination certificate:

The objectives are divided into five main issues (climate change, environment, social, economy and culture) and each SDGs objective is related to the issue to which they belong.

Table 8. Biosphere requirements to obtain their certification by main issues and SDGs

Climate change	Goal 7: Affordable clean	Develop programs and initiatives for the
	energy	efficient use of energy in the tourism
		sector of the destination
		Commit to the use of renewable energy
		sources in the destination and in the
		sector, including self-production, the
		acquisition of green energy, passive
		systems in buildings, as well as the
		existence of proactive regulatory
		frameworks and incentives
		Develop awareness campaigns, guides
		and training and informational resources
		on energy saving aimed at tourists,
		visitors and the tourism industry of the
		destination
	Goal 13: Climate action	Generate programs and initiatives aimed
		at reducing and / or offsetting the carbon
		footprint in the destination
		Promote sustainable mobility in the
		destination, including public transport
		modes and alternative zero or low
		emission mobility systems
Environment	Goal 6: Clean water and	To carry out analysis and periodic safety
	sanitation	and quality controls of the bodies of water
		for use and consumption located in the
		tourist areas of the destination
		Develop programs and initiatives for the
		efficient use of water in the tourism sector
		of the destination
		Develop awareness campaigns, guides
		and training and informational resources
		on saving water aimed at tourists, visitors
		and the tourism industry of the destination
		Have a shopping policy and tourist
		commercial culture that prioritizes the

Goal 12: Responsible	consumption of local and sustainable
consumption and	productions and services in all its
production	operations
	Guarantee the selective collection and
	maximum recycling of waste produced by
	the destination's tourist activity, as well as
	its proper disposal
	Minimize external inputs and waste
	generation, reducing dependence on the
	destination caused by tourism and
	increasing local consumption
	Develop responsible consumption criteria
	throughout the tourism supply chain in the
	public and private spheres: supplies,
	appliances, lighting, packaging, etc.
Goal 14: Life below	Establish criteria, regulations and
water	initiatives related to the control of the state
	and quality of water bodies and
	development of instruments for the
	prevention of pollution of water courses,
	lakes, wetlands, coastal waters and seas
	present in the destination
	Guarantee the sustainable use of
	aquaculture and marine resources, both in
	terms of exploitation for tourism and for
	their enjoyment in the different activities
	Have information and awareness
	resources available to increase the
	degree of awareness and respect for
	aquatic ecosystems aimed at the resident
	and visitor population of the destination
Goal 15: Life on land	Have systems to evaluate the
	environmental impact of tourism activity
	on biodiversity, habitats and landscapes,
	including urban areas, and have the

Г		capacity to anticipate environmental risks
		and correct their adverse effects
		Have an inventory of natural resources
		(fauna, flora), as well as an evaluation
		of its tourist assets and places of interest,
		including natural sites and areas of
		ecological sensitivity, which allows
		knowing their fragility and levels of
		responsible use
		Guarantee the maintenance of native flora
		and fauna, have the capacity to regulate
		the introduction of invasive species and to
		control the commercialization and
		exposure of the Destination's wildlife
		Develop sustainable tourism activities and
		services that promote the respectful use
		of natural heritage and that transmit the
		values of the destination and its identity
		through the tourist experience
Social	Goal 1: No poverty	Encourage the collaboration of the
		Administration, the tourist entities and
		companies of the destination in
		campaigns and initiatives with social
		purposes
		Develop measures to maximize the
		economic benefits of tourism for the host
		community and create stable links with
		the local economy of the destination and
		other economic activities in the
		environment
		Develop international cooperation
		Develop international cooperation projects solidarity humanitarian action or
		projects, solidarity, humanitarian action or
		projects, solidarity, humanitarian action or assistance in sustainable tourism
		projects, solidarity, humanitarian action or assistance in sustainable tourism Enable tools to calculate the socio-
		projects, solidarity, humanitarian action or assistance in sustainable tourism

resident population Promote measures aimed at maximizing the economic benefits derived from tourist activity and guaranteeing the socio-economic return of the benefits to the city Goal 3: Good health and well being Develop an efficient security system to prevent, control, publicly inform and respond to possible dangers that threaten the health and physical integrity of residents and visitors Ensure the development, promotion and prioritization of healthy tourism products and activities Reinforce the capacity to contribute to the improvement of the health care offered in the tourist centres of the destination Improve the capacity to identify, prevent, plan and respond to real and potential environmental risks and emergencies that threaten the health and physical integrity of residents and visitors Goal 4: Quality education Have quality training capacity, inclusive and adapted to the real needs of the destination, as well as specific training in tourism sustainability Develop educational and outreach activities on tourism and sustainable development Encourage collaboration with entities, institutions, educational and training		measures whose priority is to maintain the
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development Encourage collaboration with entities, institutions, educational and training		Develop educational and outreach
Encourage collaboration with entities, institutions, educational and training		activities on tourism and sustainable
institutions, educational and training		development
		Encourage collaboration with entities,
centres for the development of initiatives		institutions, educational and training
		centres for the development of initiatives
and projects related to Sustainability		and projects related to Sustainability
applied to the tourism sector		applied to the tourism sector
Goal 5: Gender equality Have quality training capacity, inclusive	Goal 5: Gender equality	Have quality training capacity, inclusive
and adapted to the real needs of the		and adapted to the real needs of the

	I	destination, as well as specific training in
		tourism sustainability
		·
		Develop educational and outreach
		activities on tourism and sustainable
		development
		Encourage collaboration with entities,
		institutions, educational and training
		centres for the development of initiatives
		and projects related to Sustainability
		applied to the tourism sector
	Goal 17: Partnership for	Belong to global and regional networks,
	the goals	projects or alliances for sustainable
		tourism in any of its facets
		Improve the capacity to promote and
		facilitate the exchange of good practices
		and knowledge both in the same
		destination and with external experiences,
		which allow inspiring the replication of
		success stories in local sustainable
		tourism
		Develop cooperation initiatives with
		academic institutions or other entities,
		whether public or private agreements, to
		promote innovation in the sustainable
		development of tourism in all areas,
		including the management and valuation
		of knowledge as a tourist resource
Economy	Goal 2: Zero hunger	Develop actions to promote and support
		the acquisition of products from local
		sustainable agriculture by the tourism
		sector, including the gastronomic offer
		Develop a food safety, hygiene and
		quality control system duly procedures at
		the destination
		Develop measures to avoid food waste in
		the destination by promoting good
		and destination by promoting good

	practices and creating mechanisms and
	incentives for their adoption by the
	tourism sector
Goal 8: Decent work and	Develop legal frameworks or agreements
economic growth	that guarantee the protection of labour
_	rights, the safety of workers and the fight
	against any form of labour discrimination
	at the international level
	Generate provisions related to work-life
	balance in the tourism sector, and the
	incorporation of less favoured groups,
	including young people
	Develop measures aimed at generating
	qualified local employment and promoting
	entrepreneurship in sustainable tourism
	activities and services
	Have resources and tools to support
	entrepreneurship in the tourism field and
	favour the activation of the various
	economic activities of the city throughout
	its value chain
Goal 9: Industry,	Develop initiatives, projects and
innovation and	guidelines aimed at the consolidation and
infrastructure	promotion of sustainable infrastructures
	for tourism, including the areas of building
	and accommodation, communications,
	mobility, energy or the water cycle
	Guarantee access to the infrastructures
	and attractions generated by tourism by
	the resident population
	Develop initiatives and projects capable of
	mobilizing the use of information
	technologies to generate responsible
	tourism activities and smart and
	sustainable management models in the
	use of resources

		Periodically evaluate and readapt urban
		management tools so that they can cope
		with the effects of the intensive use of
		resources and the mobility of tourists in
		the city
	Goal 10: Reduced	Develop social integration policies that
	inequalities	seek to eliminate discriminatory elements
		and guarantee equal opportunities for the
		entire population, especially ensuring the
		integration of the less favoured population
		of the Destination
		Develop measures aimed at guaranteeing
		universal accessibility in all links of the
		tourism value chain, including physical
		environments, transport systems, and the
		full range of facilities in the sectors of
		hospitality, services and tourism activities
Culture	Goal 11: Sustainable	Develop strategic territorial planning that
	cities and communities	favours the sustainability of the tourism
		model, its territorial, urban, social and
		environmental integration, and that
		contemplates the conservation of the
		natural and cultural heritage of the
		destination, with special attention to the
		intangible heritage given its extreme
		vulnerability
		Generate tourism products and activities
		based on cultural heritage, respectful of
		the criteria of authenticity and integrity of
		the goods
		Transmit, through initiatives and projects
		related to tourism, local knowledge related
		to traditions and intangible cultural
		heritage, so that it is effectively
		transmitted and integrated into the
		destination's tourist activity

Goal 16: Peace, justice and strong institutions

Have a destination governance system that includes all stakeholders, especially at the local level, that encourages public-private partnership, and where the role and responsibilities of each are clearly defined, including the participation system

Have a system of indicators adapted to the characteristics of the destination that allows evaluating the continuous improvement in the sustainability of its components, as well as the degree of satisfaction of tourists and local population

Offer visitors up-to-date, clear, truthful and respectful information with host communities about the spaces, itineraries, establishments, services and infrastructures of tourist interest in the destination

Develop a tourism strategy through which the destination assumes the adoption of sustainable commitments, which is publicly accessible and available in the most common languages among tourists

Have mechanisms to control, measure and publicly report data on the satisfaction of the resident and visitor population with respect to the destination's tourist activity

Have consolidated policies or practices to avoid any type of exploitation in the tourism sector of the Destination

Periodically evaluate and regulate new disruptive tourist activities in the city, and eradicate illegal activities, especially those that endanger the fundamental rights of citizens

Integrate the tourism marketing of the city with the communication, reputation and promotion strategy of the city to guarantee the sustainability of the destination

Seeking the integration of tourism management, financing, communication, and promotion policies so that they all revolve around a shared strategy based on the pillars of sustainability

Promote the construction of an inclusive and plural tourist narrative of the city, based on the principles of urban sustainability

Source: Biosphere Tourism

Continents and countries have accepted the challenge of applying the SDGs in their development strategies, but they weren't the only ones, despite the Goals were created for countries and continents, local public institutions and non-governmental organizations have done something about it.

Europe, in order to track the development of its country's members, developed its own indicators in collaboration with SDSN and followed the report model of the SDSN network giving colours to each level of achievement.

Secondly, United States applied the indicators previously proposed by SDSN with small changes to adapt to their specifications, they measured the individual performance of each state of the country following the report model of the network.

In respect of Italy, their strategy was to delegate the measurement of SDGs to their towns, states, and provinces to be able to make a more specific analysis, using also the SDSN indicators.

In the case of Spain, they analyzed only 103 cities, the most relevant ones as their criteria, and they used the results of these chosen cities to approximate the average of the whole country. For this task, they used part of the indicators proposed by the United Nations with some incorporations.

None of these reports considered tourism when analyzing the SDGs, despite they are countries/continent where tourism has big importance with an important number of arrivals and consequently an aspect that may affect the development of the country.

In the case of the Canary Islands, where tourism is the main activity, ISTAC either took into account tourism, they used the indicators provided by the UN to then apply them to the local scale. For this reason, they did not use all the indicators applicable, since there are no available data for all of them. However, on the other hand, we find Biosphere and the Tourism Observatory of the Canary Islands which took into consideration the tourism activity in their SDGs contributions. Biosphere does not use indicators. Instead of this, they elaborated a list of requirements aligned with each SDGs that the tourist destinations must comply with to obtain their certification, which is an adaptation of the goals to tourism. In the case of the Tourism Observatory of the Canary Islands, the research team from the universities has defined several key issues related to SDGs and sustainable tourism in the islands, and later they elaborated indicators to each key issue.

These two organizations show that it is possible and necessary to apply and measure the Sustainable Development Goals in local tourism destinations.

4. Monitoring SDGs in local tourism destinations

As it could be seen through the previous pages, there exist no specific indicators which facilitate the measurement and application of SDGs in the tourism activity, all the information available is about SDGs and continents, countries, cities, destinations, etc. but not about SDGs and tourism itself. It makes it difficult to evaluate specifically to what extent does tourism affect the development of SDGs and deprive tourist destinations of the possibility of adapting their tourist strategies to the SDGs in an effective and efficient way.

Even though it is possible to filter the SDGs to those that interact with the tourist activity (will be proposed above), it is very difficult to know the real input of tourism to the achievement of the SDGs since tourism is a transversal activity that in many cases cannot be pulled apart from other economic or human activities.

This section uses as a starting point the Tourism Observatory of the Canary Islands document and ISTAC contributions. Thus, an adaptation of the SDGs to a destination will be performed,

in order to evaluate in which sense the adaptation of the SDGs to tourism activity in destinations may contribute to monitoring their development.

As commented before, the Tourism Observatory of the Canary Islands document and the indicators available on ISTAC are going to be used to create a prototype of indicators, specifically. The indicators proposed by United Nations and adapted by ISTAC are going to be taken and then they are going to be filtered with the "key issues" defined in the Tourism Observatory of the Canary Islands document. In other words, to simplify and clarify the measurement of the contribution of tourism to the SDGs the maximum possible all indicators not related to tourism are going to be avoided. By contrast, the indicators related to tourism are going to be applied to a destination. In this case the Canary Islands, since the data that is needed to apply these indicators to local destinations within the Canary Islands (islands or municipalities) is no available at the moment.

Table 9. ISTAC indicators filtered by the Tourism Observatory key issues

Tourism	Targets	
Observatory	related to	Availability of data
document key	each key	
issues	issue	
Local satisfaction	8.9	No available
with tourism and	9.1	No available
well-being	11.3	No available
	12.b	No available
Labor skills,	4.3	Participation rate of youth and adults in academic
entrepreneurship,		and non-academic education and training in the
and employment		last 12 months, broken down by sex
	4.4	Proportion of youth and adults with information and
		communication technology skills, broken down by
		type of technical skill
	4.5	Parity indices (between women and men, rural and
		urban areas, upper and lower wealth quintiles, and
		groups such as the disabled, indigenous peoples
		and those affected by conflict) for all education
		indicators in this list that can be broken down
	5.5	Proportion of women in managerial positions
	8.3	No available

	8.5	Average hourly earnings of male and female
		employees, broken down by occupation, age and
		persons with disabilities
		Unemployment rate, broken down by sex, age and
		people with disabilities
	8.6	Proportion of young people (ages 15-24) who are
		not in education, not employed, or receiving
		training
	8.8	No available
	8.9	No available
	9.5	Research and development expenditures as a
		proportion of GDP
		Number of researchers (in full-time equivalent) per
		million inhabitants
Destination	8.2	Annual growth rate of real GDP per person
innovation,		employed
economic impacts	8.3	No available
and benefits	9.1	No available
	9.5	Research and development expenditures as a
		proportion of GDP
		Number of researchers (in full-time equivalent) per
		million inhabitants
	12.b	No available
	17.8	Proportion of people using the Internet
	17.19	Proportion of countries that have carried out at
		least one population and housing census in the last
		ten years
Tourism	12.b	No available
seasonality	13.1	Number of dead, missing and affected people
		directly attributed to disasters per 100,000 people
Tourism products,	9.1	No available
culture, leisure	11.4	No available
and tourist	12.2	No available
satisfaction	Goal 14	No available
	All targets	

	Goal 15	No available
	All targets	
Digitalization,	7.2	No available
knowledge and	8.2	Annual growth rate of real GDP per person
smart tourism		employed
	9.4	CO2 emissions per unit of added value
	9.5	Research and development expenditures as a
		proportion of GDP
		Number of researchers (in full-time equivalent) per
		million inhabitants
	11.2	No available
	11.3	No available
	12.2	No available
	17.7	No available
	17.8	Proportion of people using the Internet
Energy	Goal 7 All	No available
management	targets	
Water and	Goal 6 All	No available
wastewater	targets	
management	12.2	No available
Solid waste	11.6	Proportion of urban solid waste collected
management		periodically and with an adequate final discharge
		with respect to the total urban solid waste
		generated, broken down by city
	12.4	No available
	12.5	National recycling rate, in tons of recycled material
Climate change	11.b	No available
impacts and	11.6	Proportion of urban solid waste collected
mitigation		periodically and with an adequate final discharge
		with respect to the total urban solid waste
		generated, broken down by city
	12.4	No available
	Goal 13	Number of dead, missing and affected people
	All targets	directly attributed to disasters per 100,000 people
		Total greenhouse gas emissions per year
	11.b	No available

Governance and	17.14	No available
the territorial	17.17	No available
scale of analysis		
and policies		
Air transport	9.1	No available
connectivity and	11.2	No available
intermediation		
Overtourism,	11.3	No available
vacation homes		
and mass tourism		
Maturity of the	8.9	No available
destination and	11.3	No available
renovation		
Natural capital	6.6	No available
supporting	12.2	No available
tourism.	14.2	No available
Protected areas	Goal 15	No available
and fragile	All targets	
ecosystems		
Universal	1.3	No available
accessibility and	9.1	No available
inclusiveness		

Source: Own elaboration from Tourism Observatory of the Canary Islands and ISTAC

In the following table, an effort has been made to apply the system of indicators previously proposed to the tourist destination of the Canary Islands, as already mentioned before. This has been done with the data currently available in ISTAC, which is the main source of data for the destination and is currently working in the complilation of more data related to the SDG indicators.

Table 10. Indicators applied to the Canary Islands

4.4	Proportion of youth and adults with information	Aged 16-74: 69,41%
	and communication technology skills, broken	Aged 16-24: 99,56%
	down by type of technical skill	Aged 25-74: 65,26%
		(year 2020)

4.5	Parity indices (between women and men, rural	Male/female aged 18-
	and urban areas, upper and lower wealth	64: 88,67
	quintiles, and groups such as the disabled,	Lower/higer income
	indigenous peoples and those affected by	level: 45,52
	conflict) for all education indicators in this list	With/without health
	that can be broken down	limitations: 70,74
		Residents in
		municipalities with
		less/more than 10,000
		inhabitants
		(year 2016)
5.5	Proportion of women in managerial positions	30,83% (year 2020)
8.2	Annual growth rate of real GDP per person	-0,09 (year 2019)
	employed	
8.5	Average hourly earnings of male and female	Male: 13,43
	employees, broken down by occupation, age	Female: 12,36
	and persons with disabilities	People with disabilities:
		11,70
		People without
		disabilities: 13,00
		(year 2018)
	Unemployment rate, broken down by sex, age	Male: 18,90%
	and people with disabilities	Female: 21,42%
		People with disabilities:
		26,32%
		People without
		disabilities: 20,12%
		(year 2018)
8.6	Proportion of young people (ages 15-24) who	19,65% (year 2020)
	are not in education, not employed, or receiving	
	training	
9.2	Manufacturing sector added value as a	2,71% (year 2019)
	proportion of GDP and per capita	
	Manufacturing sector employment as a	3,27% (year 2020)
	proportion of total employment	
9.4	CO2 emissions per unit of added value	0,29 kg (year 2019)

9.5	Research and development expenditures as a proportion of GDP	0,47% (year 2019)
	Number of researchers (in full-time equivalent)	1195,10 (year 2019)
	per million inhabitants	
11.6	Proportion of urban solid waste collected	608,32 kg per capita
	periodically and with an adequate final	(year 2018)
	discharge with respect to the total urban solid	
	waste generated, broken down by city	
12.5	National recycling rate, in tons of recycled	1,67 (year 2018)
	material	
13.1	Number of dead, missing and affected people	0,09 (year 2019)
	directly attributed to disasters per 100,000	
	people	
17.8	Proportion of people using the Internet	92,54% (year 2020)
17.19	Proportion of countries that have carried out at	The Canary Islands
	least one population and housing census in the	carry out a census
	last ten years	each year

Source: Own elaboration from Tourism Observatory of the Canary Islands and ISTAC

As it can be seen in the results of the application of the indicators for the SDGs, the Canary Islands does not have the necessary data to apply the indicators and to measure accurately the development and achievement of the goals. F for this reason from 78 indicators related to tourism only 17 could be applied, making the results not conclusive and therefore they are not able to show the real progress.

In addition, it is clear that the indicators proposed by the United Nations do not reflect the contribution of tourism to the SDGs, since despite the indicators has been filtered to those which may show a relation with tourism, it is complicated to determine in which proportion these results are due to the tourist activity and no to other activities. It would be necessary to formulate new indicators designed specifically to measure the SDGs in the tourism activity globally applicable, so the performance of different tourist destinations can be analyzed and they can adapt their strategies to the sustainable development marked by the 2030 Agenda.

5. Conclusions

As it could be seen through this master's thesis, sustainability is an important aspect to be considered when talking about tourism development, and many reports and articles have been published in this regard. SDGs play a crucial role regarding sustainable development in all its aspects, and it is important to follow its recommendations (as many countries have done) to ensure a better future for all.

However, despite there has been a lot of discussion on sustainability in tourism and SDGs, tourism has not really been taken into account when elaborating indicators to the measurement and control of them, leaving as result a not very efficient application of them and a very difficult way to monitor the performance of destinations to improve decision-making of private and public organizations.

For this reason, in this master's thesis it is considered necessary to develop an adaptation of the SDGs and its indicators to facilitate the measurement and control of its achievement in the tourism activity, specifically focused on destinations since SDGs were mainly elaborated for countries. It would be convenient to create these new indicators in collaboration with UNWTO since they already have experience measuring sustainability in tourism thanks to the launch in 2004 of their Sustainability Indicators. These indicators should be adapted and combined with those proposed by the United Nations. As a result, an improvement in the quality of information regarding the tourism activity would allow destinations to developed data-based sustainability strategies aligned with the SDGs, which may create benefits to the sector and the society in the future.

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Annex

Annex: OMT Sustainability Indicators

T	C	T 12 .
Issue	Components of the issue	Indicators
Local Satisfaction With Tourism	Level of community satisfaction	Local satisfaction level with tourism
	Problems or dissatisfaction	Number of complaints by local residents
Effects of Tourism on	Community attitudes to	Existence of a community tourism plan
Communities	tourism	Frequency of community meetings and attendance rates
		Frequency of tourism plan updates
		Level of awareness of local values
		% who are proud of their community and culture
		76 who are proud of their community and culture
	Social benefits associated	Number of social services available to the community
	with tourism	% who believes that tourism has helped bring new services
		or infrastructure
		Number (%) participating in community traditional crafts,
		skills, customs
		% of vernacular architecture preserved
	General impacts on	Number of tourists per day, per week etc; number per sq
	community life	km
		Ratio of tourists to locals
		% locals participating in community events
		Ratio of tourists to locals at events or ceremonies
		Perception of impact on the community using the resident
		questionnaire – with reference to specific events or
		ceremonies
		% of local community who agree that their local culture, its
		integrity and authenticity are being retained
	Changes to resident lifestyles,	% of residents changing from traditional occupation to
	(cultural impact, cultural	tourism over impact, cultural change, community previous
	change, community lifestyle,	year(s); men and women
	values and costumes,	Number or % of residents continuing with local dress,
	traditional occupations)	customs, language, music, cuisine, religion and cultural practices
		Increase/decrease in cultural activities or traditional events
		Number of tourists attending events and % of total
		Value of tourists determing events and 70 of total
		% of locals who find new recreational opportunities
		associated with tourism
	Housing issues	% of housing affordable for residents
	Transing ionaco	Mode and average distance of travel to work or school
		Number of new housings starts and % for local residents
		Availability and access to some other services (
	Community demographics	Number of residents who have left the community in the
	5 5 1	past year
		Number of immigrants taking tourism jobs in the past year
	1	Net migration into/out of community
Access by Local	Retaining access to	Access by locals to key sites (% of site freely
Residents to Key Assets	important sites for local	accessible to public)
Testacine to ixey hosets	residents	Frequency of visits by locals to key site
	Economic barriers to access	Cost of access expressed in hours of local wages
	Maintaining satisfaction with	Perception of change in accessibility due to tourism
	access levels	growth
		Number of complaints by local residents regarding
		access
Gender Equity	Stress	% tourism employees (male/female) suffering
	Children	increased fatigue and stress as a result of work
	Childcare	% of tourism operators who provide day care and other benefits for employees with children
	Health and safety	% of tourism operators who have regulations/made
	,	commitments regarding equal gender opportunities

_	T	% of operators who promote staff awareness of
		occupational health, safety and issues affecting
		female employees
	Transport	% of tourism operators who provide transport for
		women returning from night shifts
	Discrimination against women/men	% employees who believe their gender has affected their job advancement, pay or benefits
Sex Tourism	Vulnerable children are at	Numbers of children in vulnerable groups working in
	risk of abuse	the destination, especially in the vicinity of the hotel or
		other premises
		Number of NGOs or government services located in
		the destination, especially within the vicinity of the
		hotel or other premises,
	Lack of knowledge about	to look after the welfare of children % of staff trained on children's rights and how to
	children's rights and how to	protect children from abuse
	protect children	Number and frequency of training sessions for
	protoct ormaron	staff/managers on how to protect children
		Number of contacts made with specialised NGOs
		Locations of police and relevant authorities' telephone
		contact numbers within hotel/premises
		Number of times reports made by company to NGOs,
		police or other authorities about suspected abuse on the premises
		Existence of a person in the company nominated as
		focal point and responsible for issues about children
		and community
	Children recruited through	Number of places where adult prostitution occurs in
	adult sex tourism	close proximity to the hotel/premises
	establishments	Mechanisms for checking ID of adult sex workers
		accompanying guests into rooms
		Methods for registering 'Joiners' ("Joiner" is a term
		used for the 'guest' of a hotel guest who wasn't
		registered at check-in. It often - but not always - refers
		to a sex worker)
		Existence of policy on adult prostitution that reflects national laws
	Children have no access to	% of revenue given to support children's charities
	income and education	Number of suppliers that create jobs for local people
		Number of staff volunteering to help local
		communities in skills transfer programmes
		Number of reports available to provide information on
		the economic and social development of local
		communities
	Sex offenders go to places	Number of information points showing relevant policy
	where they think they will	of hotel/premises to protect children. E.gposters,
	not get caught	information packs, registration forms, in-flight videos,
		staff rooms, staff bulletin boards Number of police stations in the vicinity of the
		hotel/premises that have trained child protection
		officers
	The international travel	Preparedness of travel and tourism business to
	and tourism industry	openly condemn child sex tourism
	guidelines and	Preparedness of travel and tourism business to
	declarations to prevent	develop and implement policies and programmes to
	child sex tourism do not	protect children
	often get implemented at	Evidence that travel and tourism business has
	the local level	advocated for children's rights in tourism industry
		meetings and conferences Evidence that travel and tourism business has
		participated in multi- stakeholder meetings on child
		protection and children's rights issues
	The risk to children in	Research on child sex tourism is encouraged
	tourism destinations is	throughout the business and information provided to
	documented and shared	government agencies and NGOs
		for analysis

		Regular reporting of actions through company reports and websites
Conserving Built	Legislative basis for	Number and type of new legislation or amendments
Heritage	protection	introduced to preserve structures at local,
		provincial/state/canton or national levels
	Designation	Number and type of designation under which historic structures, monuments and districts are recognized
		Percentage of eligible sites and or structures receiving
		designation
	Funding for protection	%/Amount of funds allocated to the restoration, preservation and maintenance of cultural assets on a yearly basis
		Voluntary contributions
		Tourism contribution to preservation
	Profile of the issue	% change/number of electronic and print articles generated on historic structures, monuments and districts by local, regional, national and international media
	Condition of setting and	%/change in the development of the surrounding area
	environment	to a cultural asset, and whether maintenance or improvements have taken place
		Condition of the building or site (cost of restoration per
		annum)
	Threats to the integrity and	Increase/Decrease in threats and their type to the
	authenticity of the property	original purpose and use of a site
		Controlling Use Intensity
Community	Availability of information	Number and types of avenues/channels used to
Involvement and		promote sustainable tourism
Awareness		Number of places in the destination where information
		is available
	Access to information	Number /% of people accessing information
		Frequency of access
	Analysis of information	% of people that have a clear understanding of the role of sustainable tourism planning
	Application of information	Number of times information on sustainable tourism is used within the broader community context Number of agencies applying information on sustainability aspects to their strategic planning
		processes
		Degree to which the community is satisfied with the quality and quantity of information it receives re tourism issues and sustainability
		Percentage of partners and key stakeholders who are
		satisfied with access to appropriate information Percentage who agree that the right information on
	Advocacy of information	sustainable tourism is available to me when I need it Number of promotional opportunities relating to
	Auvocacy of information	sustainable tourism practice
		Number of tourism operators offering information on sustainable tourism practice
	Action/impact of the information	% of visitors receiving information on sustainable tourism practices provided prior to their visit to the
		destination and at the destination
		Number (%) of tourism operators providing
		interpretation on sustainable tourism practice
		Number (%) of tour companies in destination offering tours/guides with trained knowledge of sustainable
		tourism practice / information on local management plan

			Number of educational programmes / institutions
			Number of educational programmes / institutions incorporating sustainable tourism learning into
			curriculum
			Number (%) of self guided opportunities that educate
			regarding sustainable tourism practice
			% of agencies incorporating sustainable tourism
			principles into their strategic planning processes
			Number (%) of tourism industry operators applying
			sustainable tourism concepts within their business
			Number of operators certified by an environmental or
			sustainability scheme
			% of residents with an understanding of what constitutes sustainable tourism practice
			Number (%) of residents who support sustainable
			tourism for their destination
			Number of registered/reported incidents in respect to
			accepted codes of good practice
			% of residents who believe tourism is good for their community
			% who believe that they or their family benefit from
			tourism
			% actively participating in outreach/advocacy
			% who believe that they understand tourism and its
Cuata:::::-	Та' (Determining whether	impacts
Sustaining Satisfaction	Tourist	tourists were satisfied	Level of satisfaction by visitors on exit Perception of value for money
Satisfaction		upon leaving	Complaints received
		Measuring the impact of	% of return visitors
		satisfaction levels on the	Changes in average price paid per room
		industry and destination	Complaints registered
		,	Ratings by guidebooks/travel sites
			Image and Branding
Accessibility		Access throughout the	Existence of disabled-friendly policy
		destination	Existence of disabled access program including e.g.,
			airports, piers, bus stations, sidewalks, public
			washroom facilities
			Existence of public transport suitable for mobility of persons with disabilities
			Number of tour companies in destination offering
			tours/guides trained for persons with disabilities
1		Access to public buildings,	Number/% of hotels with rooms accessible to persons
1		hotels and tourist services	with disabilitie
			Number(%)of access doors to buildings which have
			automated openers or attendants on the door
			% restaurants, hotels and public buildings with
			wheelchair-accessible restrooms
		Access to tourist attractions, including	% of attractions with wheelchair access
1		natural and cultural sites,	% of attractions offering alternative access for those
		viewpoints	with mobility concerns
		Access to tourist experiences, including	Number of tours to destination with specific program to accommodate persons with disabilities
		adventure travel Access to	Number of persons with disabilities visiting destination
		suitable tours, which match	and key sites
		the capabilities of the traveller	% of key sites considered accessible or inaccessible
		Assistance when needed	for those with differing levels of mobility or fitness Distance to nearest hospital (Km) or medical facility
		Assistance when needed	for longer tours/cruises) Presence of medical
			personnel
			(for tours catering to persons with disabilities)
			percentage of staff with medical or paramedical
			training suitable to the range of needs of clients
		Satisfaction by those with	See exit questionnaire (the same questionnaire can
		disabilities with the destination or attraction	be provided explicitly to groups of travellers with disabilities to identify their concerns)

Health	Visitor health and safety	Number of illness and death cases of tourists and the
	l land management	cause
		Number of visits by tourists to local doctors
		Reports of food poisoning
		Types of tourism operations involved in
		cases/outbreaks of food poisoning
	Visit and the second	Reports of communicable diseases
	Visitor health and safety:	% of food handlers receiving food hygiene training
	Prevention, regulations	% of commercial food outlets (as above) with
		adequate temperature control for commercial food storage
		Food hygiene standards and regulations in place and
		monitored
		Incidence of breaches of regulations
		Provision of awareness campaigns for food
		regulations and support to owners of food service
		operations
		Adequate cleaning procedures % of commercial food outlets including street vendors
		with provision of adequate hand washing facilities for
		food handlers
		Routine pest control
		Water quality
		% of tourism businesses included in local tourist guide
		information complying with all relevant indicators
		above
	Accidents	Number of reported accidents involving tourists and their causes
		Number of publications for visitors with health and
		safety warnings
		% of facilities with adequate safety signage
		% Staff in tourism businesses with first aid training
		% establishments with Occupational Health and
		Safety (OHS) programs standards and regulations in
		place and monitored
		% of tourism businesses with a risk management plan
		Frequency of monitoring or regular checking of OH&S
		measures and risk management plans
		Number of licenses and permits for tourism
		businesses requiring a risk management plan Frequency of staff training on safety procedures
		% of establishments with training programs
		% with formal monitoring of safety
		procedures/equipment
		% of businesses in government endorsed/produced
		tourist brochures with good safety procedures,
		training and equipment
	General community health	% of tourism businesses with effective effluent
	and safety	treatment
		Frequency of monitoring and compliance of effluent
		treatment with public health legislation Volume of waste disposal and run off from tourism
		businesses
		% arriving international visitors reviewed for health
		issues – with appropriate quarantine procedures if
		needed
		% of local staff working in the tourism industry
		receiving development and training programs on
		personal hygiene
		Evidence of tourism training outcomes on hygiene
		being taken to the home or village setting
		Existence of collaboration with public health/
		promotion units to reinforce health messages

	Access to booth care	1 0/ of local tourism asster ampleyees receiving
	Access to health care	% of local tourism sector employees receiving
		free/subsidised health checkups and clinics for staff
		and family members
		% of employees with employer sponsored comprehensive health insurance
	Malnutrition	Level of protection of water for irrigation of food crops
	Manuthon	and food processing
		% of tourism businesses supporting local agriculture
		and aquaculture to maintain fresh supply of
		accessible local foods, especially protein foods
		Number /% of employees in hospitality and food
		service sectors provided with nutrition education
		% of employees in tourism establishments with
		access to healthy in house food services
		Level of malnutrition in hotel employees
	Quiet and safe	% of community protected by regulations eg. of noise,
	neighbourhoods	congestion, alcohol consumption and loitering,
	Ĭ	controlling tourist behaviour in proximity to residential
		and children's play areas
	Substance abuse	Number of education programs and policies on
		responsible service and use of alcohol
		Number and coverage of health programs on drug
		abuse
	Smoking	% of workplaces which are smoke free
		% of workplaces with 'Quit' incentive programs
	Family support	% of workplaces providing child care facilities
		% of workplaces with family-friendly rostering
	Education and training	Percentage of employees who are from the local
		community
		Number of scholarship and training opportunities for
		local youth
		Extent of work programs for at-risk youth
	Access to safe drinking	% of large tourism developments which include
	water, power and	infrastructure in development to benefit local
Oneign with Enidenies	sanitation	community
Coping with Epidemics and International	Facilitation, warning and information	Issue of travel advisories Travel industry information disseminated on 'safe' and
Transmission of	IIIOIIIIatioii	'at risk' countries
Disease		
Disease		Warnings about precautions and vaccinations Degree of collaboration between industry and health
		officials in affected destinations
		Public health education to alert travellers and industry
		staff to effective personal protection and socially
		responsible behaviour to avoid further transmission
	Contingency planning	Quarantine precautions for air travellers to and from
	mitigation and response	affected regions
		Effectiveness of surveillance and reporting of cases
		In addition to all above; public health education
		campaigns to be disseminated through consumer
		channels about symptoms, essential precautions and
		treatment
		Strategies to support affected nations
		Strategies to build consumer confidence
	Impacts on tourism	% drop in visitor numbers
		Number of staff stood down
		% drop in room occupancies
		Length of time taken to recover back to pre outbreak
		levels of visitation and room nights
		Number of tourists reporting infection/incidents
		% of tourists who fear travel to the destination
		% of travellers who say they changed travel plans
		because of the epidemic
Tourist Security	Incidents	because of the epidemic Number of incidents
Tourist Security	Incidents	because of the epidemic

	I Impacts of incidents on	Number of 9/ shange in numbers employed in tourism
	Impacts of incidents on tourism sector	Number of % change in numbers employed in tourism Number of % change in tourism revenues
	tourism sector	Number of % change in occupancy rates
		Number of % hotels closed
	Dana antical affacts	% change in number of direct flights
	Perceptual effects	Number of incidents reported in international press;
		Frequency of mention of destination (or region) in
		international news of incidents
		Opinion of travellers of safety of destination
		Rating of destination in magazines, guidebooks and
		other media dealing with places considered to be dangerous and risky
		Rating (listing) of site on travel warnings, as part of
		travel advisories, in principal countries of origin,
		government websites
		Rating (listing) of site on travellers advisory in
		principal countries of origin, government websites
	Management or response	Level of expenditure on security
	to risks	Level of security at borders
	to new	Existence of a contingency plan for tourists and
		visitors to the region in the event of incidents
		Existence of emergency services
		Number of tourists helped by tourist aid programs
		Number of % tourists informed of security levels
		Number/% of tourism establishments complying with
		safety and security standards
		Existence of safety and security standards for
		attractions and establishments
Local Public Safety	Crime	Total number of crimes reported involving visitors
Í		Number of visitors charged with crimes
		Cost of destination security per annum, per
		visitor/tourist
		Perception of severity of crime problem by visitors
	Harassment of tourists	Number of incidents reported
		Perception of level of harassment or anxiety
	Health	Number (%)of tourists reporting health problems
	Crime prevention and	Level of policing (police per tourist)
	control	Cost of destination security per annum, per tourist
		Level of information for tourists regarding crime and
		prevention
Tourism Seasonality	Measuring degree of	Tourist arrivals by month or quarter
ĺ	seasonality	% of annual tourist arrivals occurring in peak month,
		in peak quarter
		Ratio of number of tourists in peak month to lowest
		month
		Occupancy rates for licensed (official) accommodation
		by month
		% of all occupancy in peak quarter
		Inquiries at tourism information centres by month
	Strengthening shoulder	% tourism authority budget spent promoting off-peak
	season and low season	and shoulder seasons
	tourism	Number of facilities offering alternative activities
		during shoulder and low season
		% of main attractions open in shoulder/off seasons Special events (e.g. festivals, conferences) held
		during shoulder and low season
	Provision of sufficient	% of business establishments open all year
	infrastructure year-round	% accommodation and services open all year
	doi.doi.doi.doi.doi.doi.doi.doi.doi	% of water, electricity, sewage and garbage system
		capacity used for tourism and for locals. Seasonality
	i e	
		of use
		of use Funding allocated for the operation and maintenance
		of use Funding allocated for the operation and maintenance of infrastructure, especially in high seasons

	Short term and seasonal	Number and % of tourist industry jobs which are
	employment, with related	permanent or full-year
	issues of lack of training,	% tourist industry jobs which are for less than 6
	retention of good	months
	employees, provision of	Local unemployment rate in off-season
Leakages	career paths Facility/activity creation	Value of imported goods
Leakayes	Facility/activity creation	Value of imported goods Value of imported services
	Facility operation and	Value of imported goods for visitor use and
	carrying out of activities	consumption including of agricultural products,
		restitution, spare parts, etc.
		Value of imported services, including insurance
		Foreign exchange costs of marketing and distribution
		abroad Remittances abroad by expatriate staff
		Remittances of profits and dividends
		Remittances due to foreign debt servicing
	Invisible leakages	Foreign exchange value of deteriorated resources
	Inviolore realitages	Quantification of lost market/lost business value
		Foreign exchange loss due to differences between
		official and market exchange rates
		Foreign exchange loss due to sales of non-licensed
		and un-taxed services
		Foreign exchange loss equivalent of social costs caused by international visitor consumption of scarce,
		subsidized and imported resources financed by
		international aid
Employment	Number and quality of	Total number employed in the tourism sector, by
	employ- ment in the	industry
	tourism sector	Retention levels of employees
		Percentage of jobs that are full time, full year
		Local unemployment rate in off-season
	Professional and personal	Income analysis Number (%) of employees qualified/certified
	development	Training funds spent per employee, frequency of
		training programmes and level of participation
		Possibility of on-the-job training
	Contentment from work	Employee satisfaction
	including, type of work,	Promotion
	environment, safety, development, etc.	Income levels
	development, etc.	Ability to influence change/improvements in business
		processes
İ		processes Number of workplace accidents
	Lack of skilled labour	Number of workplace accidents
	Lack of skilled labour	•
	Lack of skilled labour	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints
		Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported
Tourism as a	Measuring potential impact	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential
Contributor to Nature	Measuring potential impact of tourism on the natural	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential environmental
	Measuring potential impact	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential environmental % of projects where tourism impact is evaluated
Contributor to Nature	Measuring potential impact of tourism on the natural	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential environmental % of projects where tourism impact is evaluated % of conservation projects where tourism financial
Contributor to Nature	Measuring potential impact of tourism on the natural environment	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential environmental % of projects where tourism impact is evaluated % of conservation projects where tourism financial contribution is a component
Contributor to Nature	Measuring potential impact of tourism on the natural environment Source of financing for biodiversity conservation	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential environmental % of projects where tourism impact is evaluated % of conservation projects where tourism financial contribution is a component % of the protected area, conservation site budget originated from tourism activities
Contributor to Nature	Measuring potential impact of tourism on the natural environment Source of financing for biodiversity conservation and maintenance of	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential environmental % of projects where tourism impact is evaluated % of conservation projects where tourism financial contribution is a component % of the protected area, conservation site budget originated from tourism activities Value generated through visitor fees
Contributor to Nature	Measuring potential impact of tourism on the natural environment Source of financing for biodiversity conservation	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential environmental % of projects where tourism impact is evaluated % of conservation projects where tourism financial contribution is a component % of the protected area, conservation site budget originated from tourism activities Value generated through visitor fees Value of contribution from operators
Contributor to Nature	Measuring potential impact of tourism on the natural environment Source of financing for biodiversity conservation and maintenance of	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential environmental % of projects where tourism impact is evaluated % of conservation projects where tourism financial contribution is a component % of the protected area, conservation site budget originated from tourism activities Value generated through visitor fees Value of contribution from operators Value of donations received from tourists
Contributor to Nature	Measuring potential impact of tourism on the natural environment Source of financing for biodiversity conservation and maintenance of	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential environmental % of projects where tourism impact is evaluated % of conservation projects where tourism financial contribution is a component % of the protected area, conservation site budget originated from tourism activities Value generated through visitor fees Value of contribution from operators Value of donations received from tourists % of businesses in the destination or near the site
Contributor to Nature	Measuring potential impact of tourism on the natural environment Source of financing for biodiversity conservation and maintenance of	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential environmental % of projects where tourism impact is evaluated % of conservation projects where tourism financial contribution is a component % of the protected area, conservation site budget originated from tourism activities Value generated through visitor fees Value of contribution from operators Value of donations received from tourists % of businesses in the destination or near the site contributing to conservation
Contributor to Nature	Measuring potential impact of tourism on the natural environment Source of financing for biodiversity conservation and maintenance of	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential environmental % of projects where tourism impact is evaluated % of conservation projects where tourism financial contribution is a component % of the protected area, conservation site budget originated from tourism activities Value generated through visitor fees Value of contribution from operators Value of donations received from tourists % of businesses in the destination or near the site contributing to conservation % of tourism products (tours etc) with specific
Contributor to Nature	Measuring potential impact of tourism on the natural environment Source of financing for biodiversity conservation and maintenance of	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential environmental % of projects where tourism impact is evaluated % of conservation projects where tourism financial contribution is a component % of the protected area, conservation site budget originated from tourism activities Value generated through visitor fees Value of contribution from operators Value of donations received from tourists % of businesses in the destination or near the site contributing to conservation % of tourism products (tours etc) with specific contributions built into the price or surcharges
Contributor to Nature	Measuring potential impact of tourism on the natural environment Source of financing for biodiversity conservation and maintenance of	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential environmental % of projects where tourism impact is evaluated % of conservation projects where tourism financial contribution is a component % of the protected area, conservation site budget originated from tourism activities Value generated through visitor fees Value of contribution from operators Value of donations received from tourists % of businesses in the destination or near the site contributing to conservation % of tourism products (tours etc) with specific
Contributor to Nature	Measuring potential impact of tourism on the natural environment Source of financing for biodiversity conservation and maintenance of protected areas	Number of workplace accidents Measures of errors, or resulting waste Tourist dissatisfaction Complaints % labour imported Reports on a scientific understanding of potential environmental % of projects where tourism impact is evaluated % of conservation projects where tourism financial contribution is a component % of the protected area, conservation site budget originated from tourism activities Value generated through visitor fees Value of contribution from operators Value of donations received from tourists % of businesses in the destination or near the site contributing to conservation % of tourism products (tours etc) with specific contributions built into the price or surcharges Number and % involvement in support clubs

	avalaitation of wildlife and	0/ of the legal community ampleyed in concentration
	exploitation of wildlife and resources	% of the local community employed in conservation activities
	resources	Number (membership) in local programs
		Level of effort to engage locals in protection activities
		Number and percentage of locals actively involved in
		conservation programs % of goods and services purchased locally
		Value of infrastructure investment by tourism
		enterprises
		Value and % discounts or incentives for locals
	Constituency building	% of tourists participating in protection activities
	which helps promote	% of tourists participating in protection activities % of tourists contributing to conservation
	biodiversity conservation	Level of activity designed to engage tourists in
	by tourists	protective activities
	2, 104	% of tourists aware of importance of conservation site
		% of tourists who receive conservation materials, %
		who read, respond
		% increase/decline in after visit correspondence from
		former visitors
		% of locals who receive conservation materials , % who receive, respond
		% of stakeholders for whom materials are in their
		native language
	Site-specific regulations	Applied codes of conduct
		Percentage compliance
	Provision of opportunities	Number of conservation organizations coordinating for
	for participation by tourists	tourism activities at conservation sites
	in conservation	Number of conservation programs/activities open for
		tourist participation
		Number of tour operators offering conservation
		activities as part of tourist programs
		Survey questionnaire re satisfaction
		% of tourists receiving marketing materials which
		provide contribution opportunities
		Existence of customer code of practice and guidelines
		Vehicle and other powered equipment user codes
	F	Level of cultural sensitivity of educational materials
Community and	Employment	Number of local people (and ratio of men to women)
Destination Economic		employed in tourism
Benefits		Ratio of tourism employment to total employment
		% of tourism jobs held by local residents
		Average tourism wage/average wage in community
		Ratio of part time to full time employment in tourism
	Designation of the state of the	Average tourism employee income
	Business investment in tourism	Number of tourism businesses in the community, and % owned locally
		Number and type of business permits and licences
		issued
		Ratio of the number of local to external businesses
		involved in tourism
		Asset value of tourism businesses and % owned
		locally
	- ·	Longevity of tourism businesses
	Tourism revenue	Tourist numbers
		Tourist spending/spending per tourist
		Occupancy rates in accommodation establishments
		Revenues generated by tourism as % of total
		revenues generated in the community
		Local GDP and % due to tourism
		Total fees collected by community for access/use of community attractions
		Revenue from business permits, licenses or
		concessions and taxation
		CONCESSIONS and taxation

	1.0	
	Community expenditures	Existence of tourism budget/plan
		Annual expenditures on tourism
		Amount and % of infrastructure expenditures for
		tourism Amount and % of total annual operating expenditures
		, ,
		for tourism Cost of tourism advertising and promotion per number
		of tourists Amount and % contribution of tourism revenues to the
		cost of water, sewage, roads, food production,
		energy, waste management, air quality, human
		resources development, etc
	Net economic benefits	Net tourism revenues accruing to the community
	Net economic benefits	Economic Multipliers: Amount of additional revenue in
		other businesses for every dollar of tourism revenue
	Changes in cost of living	% increase/decrease in land and housing prices over
		time
		% increase/decrease in average family weekly income
		% increase/decrease in expenditures
Tourism and Poverty	Stabilising and improving	Annual total income generated by the community
Alleviation	the community's income	Ratio of income attributable to tourism versus
		traditional income generating activities
		Ratio of time dedicated to tourism versus traditional
		income generating activities
		Ratio of time dedicated to tourism versus tourism
		income
	Improving local	Total number of workers in the community
	employment opportunities	Ratio of local to "outsiders" directly employed by
		tourism
		% local workers employed at different skill levels
		Ratio of men to women employed directly by tourism
		% indigenous people employed directly by tourism
	Operation and support of	Number of tourism-related MSMEs operating in the
	micro, small and medium	community
	sized enterprises	Incentives for MSMEs, availability, level
	(MSMEs), or community based enterprises	provided/used
	based efficiplises	Capacity building for establishment and improvement of MSMEs: number of programmes/events, level of
		participation
	Achieving equitable	% workers in the community directly employed by
	distribution of tourism	ratio of the top to the lowest paid local tourism worker
	funds / benefits across the	Annual financial contribution by tourism to community
	community	projects
		Infrastructure development stimulated by tourism also
		benefiting the poor in the locality, amount of
		investment, extension of new infrastructure
		Number and type of development programs in place
		Community survey assessment of the usefulness and
		success of the various development programs
	Evaluating less tangible,	Annual audit of the contribution of different activities to
	non- economic, livelihood	household needs
	priorities	Survey of household capacity to fulfil livelihood
		priorities for the year
	Other related issues	Access by Local Residents to Key Assets
		Employment
		Effects of Tourism on Communities
0	O contract contract	Economic Benefits
Competitiveness of	Cost advantages, price	Cost/Price ratios (including gross margin) of
Tourism Businesses	and value	accommodation, attractions, tours or packages
		compared to industry norms or ratios for similar
	Input costs: employment,	products at other destinations
	taxes, overheads &	
	premiums, costs of	
	services and supplies, human resources costs	
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	(biring training retaining)	
	(hiring, training, retaining)	
	transportation costs	0/ of tourists attracted to destination because of
	Differentiation. Unique products and experiences,	% of tourists attracted to destination because of unique features
	Inherent attractions,	Rating of destination by tourists
	positioning the	Attractiveness compared to similar destinations
	destination, branding,	Expectations met or exceeded
	quality, standards	Value/price rating by tourists
	perceived or psycho-	Value/price rating by tourists
	logical advantages	
	Specialty niches/focus	Measure of uniqueness;
	strategy. Narrowing the	, ,
	focus for tourism products	- destination is the only location for(a specific
	and target markets,	type of activity, attraction);
	Intangibles; tourist	type of dollvity, dilitablion),
	"experiences", destination	destination is one of only 2 (or 2.4.5) in the country
	"appeal". Business clusters	- destination is one of only 2 (or 3,4,5) in the country (in the world) offering(specify)
	around a theme	(in the world) offering(specify)
		Number (or %) of tourism businesses and support
		services within a "cluster"
		% of tourism revenue due to niche products or
	0	clusters
	Cooperation/overcoming	% of tourism businesses that have integrated their
	fragmentation	goals and objectives with the destination tourism
	Cooperation amongst businesses; common	strategy % of tourism business participating in cooperative
	marketing, image,	marketing
	branding of the destination.	% of marketing expenditures in cooperative initiatives
	Research, training, support	Amount and % of public authority budget designated
	for small businesses	for supporting business development, level of
		participation in support schemes
	Vitality of the industry	The longevity of tourism businesses
		Re-sale value of tourism businesses
		Level of participation by business in tourism strategy
		development, and marketing initiatives
		Strength of membership in tourism industry
		associations
		Tourism revenues
		Annual profit of tourism businesses
		Occupancy rates for Accommodation
Protecting Critical	Area protected, and to	Existence of protected area(s) at the destination
Ecosystems	what degree	Extent of protected area(s)
	Intensity of use	Controlling use intensity
	Disturbance to species and	Health of population of key indicator species
	fragile systems particularly	Breeding success rates for selected species
	specific impacts on rare	
	and endangered species	
	Costs of maintenance of	Cost of protection/restoration
	protection	Tourism contribution to protection and restoration
	Contamination events	Level of contamination of seawater
	which may harm the health	Level of contamination of seawater
	of bathers or damage	# days beach/shore closed due to contamination
	coastal ecosystems	events
1		Turbidity of water

	1	Alternative provy indicators where laboratory testing is
		Alternative proxy indicators where laboratory testing is difficult:
		- frequency of algae blooms;
		- counts of dead fish or birds on shore;
		- frequency counts of indicator species which are particularly vulnerable
Energy Managemen	Measuring energy use and conservation	Per capita consumption of energy from all sources
	Energy management program	Percentage of businesses participating in energy conservation programs, or applying energy saving policy and techniques
	Use of renewable energy	% of energy consumption from renewable resources
	sources	Number, of % of establishments using renewable sources
Climate Change and	Level of damage related to	Frequency of extreme climatic events
Tourism	extreme climatic events	Value of damage to tourism sector
	Level of exposure to risk	Percentage of tourist infrastructure (hotels, other) located in vulnerable zones
	Degree of planning for	Degree to which key tourist zones are covered by
	climate change impacts	contingency or emergency planning
	Impact on seashores	Value of tourism infrastructure in coastal zone below
		estimated maximum storm surge levels or equivalent
		Value of damage annually due to storm events or
		flooding
		% of tourist area and infrastructure with sea defences
	Impact on mountains	% ski areas or ski-able terrain with snowmaking
		equipment
		% of developed ski area which would lack access to ski-able conditions with warming
	Impact on wildlife and	% of tourism dependent on viewing species
	biodiversity	
	Greenhouse gas	Total CO ₂ produced due to the community's energy
	emissions by the destination and by the	consumption Consumption of fossil fuels by the tourism sector
	tourism component	·
	Transportation fuel use	Total consumption per capita of fossil fuels for transportation
		Total consumption of fossil fuels in the destination for
		tourist transportation
	Energy consumption related to temperature control	Number and % rooms with air conditioning and/or heating
	Coverage of natural areas	% of natural area coverage in the territory of the destination
Water Availability and	Overall water use relative	Water use: (total volume consumed and litres per
Conservation	to supply	tourist per day)
	Conservation initiatives	Water saving
	and results	% waste water or grey water recycled
		Number of establishments participating in water
		conservation programmes, applying water
		conservation policies and techniques, recycling treated wastewater
	Seasonal shortages Water	# shortage incidents per year or number of days per
	shortages	year where there are supply shortages
	- Choragos	% loss from reticulated system
		% water supply imported to region
	Allocation of water among	Total use as percentage of installed capacity
	users	Total use by each sector
	1	

		Note consumption by key users
	Cost and pricing of water	Water price per litre or cubic metre
Drinking Water Quality	Purity of the drinking water	Percentage of tourism establishments with water
	supply	treated to international potablestandards % of local population with access to treated water
		Number of incidents of violation of water standards
	Impact of contamination on	Frequency of water-borne diseases: percentage of
	tourist health	visitors reporting water-borneillnessesduringtheirstay
	Impact of water related	Perception of cleanliness of food and water
	contami- nation on image of destination	
Sewage Treatment	Sewage receiving	Percentage of sewage from the destination/site
	treatment	receiving treatment
		% of treated sewage recycled
	Extent of sewage	Percentage of tourism establishments (or
	treatment systems	accommodation) on (suitable) treatment systems Percentage of the destination served by storm water
		systems
	Effect of sewage treatment	Number of reported pollution or contamination events
		per annum (by month) in watercourses receiving
		effluents
Solid Waste	Managing total waste	Total amount of waste collected
Management	collected in a destination	Waste volume produced by the destination
		Waste disposed by different methods
	Reducing waste produced	Waste attributable
	Reducing waste produced	Volume of waste recycled (m ³) / Total volume of
		waste (m ³)
		Number of tourism establishments collecting waste
		separately, capacity of collecting separated waste
		from local residents Number of tourism establishments recycling their own
		waste
	Providing waste collection	% of destination area (especially in urban sites)
	services	covered by solid waste collection services
		Percentage of tourism establishments covered by
	Hazardous substances	waste collection programs
	(reduction, handling)	Number and volume of hazardous substances in use % of these substances for which appropriate
	(reduction, nanding)	management and disposal policies and programs are
		in place
		% of employees informed and trained in the use and disposal of the substances they use
	Maintaining clean image	Quantity of waste collected from public areas and
	for the destination	streets
		Quantity of waste strewn in public areas
Air Dellution	Ovelity of air	Image of cleanliness of destination
Air Pollution	Quality of air Impact of air quality on	Number of days exceeding standards
	tourists and residents	Incidence of respiratory problems Number of health problems reported by tourists
	Reaction of tourists to air	Perception of air quality by tourists
	quality	Number of warnings regarding the air pollution of the
		destination in major publications and guidebooks
	Impact of air pollution on	Cost of repair to buildings and cultural sites
	tourist assets	
	Impact of tourism sector on air quality	Contribution of the tourism industry to greenhouse gases
Controling Noise	Actual noise levels	Noise levels at site in decibels
Levels	Impact of noise on tourists	Perception of noise
Managiran	and locals	Complaints received
Managing Visual	Design and construction of	Total length of roads
Impacts of Tourism Facilities and	infrastructure	Total run of overhead electrical cables Presence of satellite dishes
Infrastructure		Presence of communications tower
aotraotare		Height of water tank
L	l .	Floight of water tank

	T	Sewage ponds
		Erosion on the side of roads
		No. and size of signposts
	Night lighting	Number of light fixtures that throw direct light
	1	Quality in viewing the night sky
	Physical form	Height of buildings
	i nyelesi ienn	Number of buildings (area covered) exceeding height
		of natural vegetation
		Shapes of buildings
		Shapes of signs
		Density of buildings per hectare
	Planning / Building permits	Existence of aesthetic considerations in planning
		approval process
		Development Control
	Material selection	Color
		Texture
	Siting and orientation	Ridgeline or coastline continuity
		Slopes
		Against the natural light – reflections
		Soil Erosion
	Integration with the	% of site cleared for development
	landscape	Number. of indigenous plants removed for
		development
		% of landscaping done with native species
		% of site covered by indigenous plants
Controling Use	Total numbers of tourists	Total tourist numbers
Intensity	visiting the destination or	
	key sites, peak numbers of	
	tourists stressing the limits	
	of capacity	Number of tourists per aguere metre of the site
	Measuring and managing the intensity of use of the	Number of tourists per square metre of the site
	destination	
	Measuring and managing	Density counts for vehicle use of site
	use density for specific	Ratio of number of vehicles per parking space
	heavily used sites within	really of fluttiber of verticies per parking space
	the destination	
	Levels of use relative to	% of total capacity used
	design capacity/other	· ,
	capacity measures	
	Perception of use levels	Percentage of tourists who believe that the destination
	and crowding	is too crowded
Managing Events	Site environmental	Total area of site used by those at the event
	sensitivity:	
	- Features of the site	% of site changed
	including	
	ecological fragility, animal	
	habitat, sensitive periods	
	for flora and fauna	
	Social sensitivities –	Existence of a participatory planning process for
	Impact on local communities - degree of	events
	involvement of local	% local population who support the event
	citizens and businesses	Ratio of numbers of spectators to population
		% of site permanently changed by the event
	- use of site by area	% increase/decrease in use of the site after the event
	residents	
	 impact on community during the event 	
	Impact caused by	Number of participants in/at the event
	participants in the event -	Number of circuits/repetitions per area or length of
		track

l inte	maits of the ord	
	ensity of use of site and	
	ecific areas	
	pact caused by	Existence of a spectators management plan
	ectators - distribution d movements of	Number of spectators
		Ratio of expected number of spectators to actual
Spe	ectators	Density of spectators: over total; at peak viewing
		areas; at fragile sites
	lamage to natural	Area cordoned off for/from spectators
	oitats; disturbance of	Number of waste bins
wild	dlife	Number of recycle bins for plastic, aluminum, paper
		products, organic waste
- d	lamage to built	Number of WCs
env	vironment	
- li	tter	
"		
	uman waste	
Sat	fety and security	Number of security personnel
		Number of incidents
		Number of medical/first aid posts
		Level of facilitation of information related to safety
		issues
	pact caused by vehicles	Number of vehicles
- ty	ypes of transportation	% spectators using public transport
		% increase in number of vehicles
- tr	raffic jams	% increase in number of vehicles
	•	
	ir pollution; noise, smell	
- a	iii poliution, noise, sineli	
	arking; soil	
cor	mpression	
- g	asoline and oil	
	lls/leaks	
Cat	tering	% of catering waste which is recyclable and recycled
		Weight/volume of waste produced
- n	roduction of waste	Energy and water demand
P	roduction of waste	0 7
**	ncreased use of water	
and	d power	
- w	vaste water	
Imp	pact due to	Area impacted/loss of natural habitat/landscape
	astructure:	Increased use of site after the event
	emporary, permanent	
201	lect or create courses	Meters of course affecting environmentally sensitive sites
		% existing, % new, % open country etc
	h respect for the vironment	
		% accessible to the public after the competition
	fine, apply, audit and	Number of measures adopted
	iew protective	Area of protected zones, km of tape, route markings and
	asures for important	barriers
	vironmental aspects	Number of audits carried out
	tablish and implement a	Number of parking spaces, dry weather
traf	ffic plan	Number of parking spaces, wet weather
		% spectators using public transport
		Average distance between parking areas/station and
		competition sites
		Number/frequency of shuttle buses
Est	tablish and implement a	Number of spectators expected
	ectator management	Size of security service
i opc		<i>√</i> -

	mlan which reconnects the	
	plan which respects the	
	environment Catering: favour suppliers	Number and type of substances over which
	who reclaim and recycle	agreement is reached with suppliers in the
	their products and waste	specifications
	Establish and implement a	Number of collection points and their position on site
	waste management plan	Amount and type of waste being reclaimed, recycled
		or re-used; main types: glass, PET, aluminum, wood,
		plastics etc
		Amount and type of waste with guaranteed
		reclaiming, recycling or re-use
		Number of fixed/mobile toilet factlities
		% waste water (sewage) treated before disposal
	Restore sites to their	Availability and amount of human and financial
	original condition	resources for restoring the sites
Integration of Tourism	Performance of the tourism	Tourist Numbers over time/purpose of visit
Into Local/Regional	industry	Average length of stay
Planning		Visitor expenditure per day
		Revenue generated from tourism
	Increase of tourisms on the	Leakages from the economy
	Impacts of tourism on the destination	Traffic generated from tourism Ratio tourists to locals
	destiliation	
		Local satisfaction with tourism Visitor/local water usage
		Economic dependency on tourism -Contribution to
		GDP
	Quality of the tourism	Attractiveness of sites and facilities
	product	Satisfactionoftourists
	p.oddot	% returning visitors
	Threats to tourism from	Number of sites damaged by other development;
	other areas	Environmental threats
		Environmental vulnerability
		Crime rate per capita
	Existence of tourism plan	Up to date plan exists
	or strategy	Plan review completed or scheduled
	Costs of plan	Plan budget
		Budget designated/spent for research and formulation
		Budget designated spent for research and formalistich
		Budget designated/spent for plan implementation
		Budget designated/spent for plan implementation Budget designated/spent for consultation and public
		Budget designated/spent for plan implementation Budget designated/spent for consultation and public participation
		Budget designated/spent for plan implementation Budget designated/spent for consultation and public participation Level of staff resources assigned to planning
	Impact assessment and	Budget designated/spent for plan implementation Budget designated/spent for consultation and public participation Level of staff resources assigned to planning Impact assessment of environmental, social and
	Impact assessment and balance of actions	Budget designated/spent for plan implementation Budget designated/spent for consultation and public participation Level of staff resources assigned to planning Impact assessment of environmental, social and cultural aspects of tourism completed
		Budget designated/spent for plan implementation Budget designated/spent for consultation and public participation Level of staff resources assigned to planning Impact assessment of environmental, social and cultural aspects of tourism completed Number of environmental, social, cultural and
	balance of actions	Budget designated/spent for plan implementation Budget designated/spent for consultation and public participation Level of staff resources assigned to planning Impact assessment of environmental, social and cultural aspects of tourism completed Number of environmental, social, cultural and economic actions recommended in plan
		Budget designated/spent for plan implementation Budget designated/spent for consultation and public participation Level of staff resources assigned to planning Impact assessment of environmental, social and cultural aspects of tourism completed Number of environmental, social, cultural and economic actions recommended in plan Degree of stakeholder participation in the planning
	balance of actions	Budget designated/spent for plan implementation Budget designated/spent for consultation and public participation Level of staff resources assigned to planning Impact assessment of environmental, social and cultural aspects of tourism completed Number of environmental, social, cultural and economic actions recommended in plan Degree of stakeholder participation in the planning process
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	balance of actions Public participation Monitoring of plan implementation	Budget designated/spent for plan implementation Budget designated/spent for consultation and public participation Level of staff resources assigned to planning Impact assessment of environmental, social and cultural aspects of tourism completed Number of environmental, social, cultural and economic actions recommended in plan Degree of stakeholder participation in the planning process Degree of stakeholder participation in the process of implementing plans Existence of performance indicators designated for evaluating the plan developed and used % of plan objectives which have been met % environmental, social, cultural actions recommended in plan which have been implemented
	balance of actions Public participation Monitoring of plan	Budget designated/spent for plan implementation Budget designated/spent for consultation and public participation Level of staff resources assigned to planning Impact assessment of environmental, social and cultural aspects of tourism completed Number of environmental, social, cultural and economic actions recommended in plan Degree of stakeholder participation in the planning process Degree of stakeholder participation in the process of implementing plans Existence of performance indicators designated for evaluating the plan developed and used % of plan objectives which have been met % environmental, social, cultural actions recommended in plan which have been implemented % of accommodation units using primarily local
	balance of actions Public participation Monitoring of plan implementation	Budget designated/spent for plan implementation Budget designated/spent for consultation and public participation Level of staff resources assigned to planning Impact assessment of environmental, social and cultural aspects of tourism completed Number of environmental, social, cultural and economic actions recommended in plan Degree of stakeholder participation in the planning process Degree of stakeholder participation in the process of implementing plans Existence of performance indicators designated for evaluating the plan developed and used % of plan objectives which have been met % environmental, social, cultural actions recommended in plan which have been implemented % of accommodation units using primarily local architecture;
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	balance of actions Public participation Monitoring of plan implementation	Budget designated/spent for plan implementation Budget designated/spent for consultation and public participation Level of staff resources assigned to planning Impact assessment of environmental, social and cultural aspects of tourism completed Number of environmental, social, cultural and economic actions recommended in plan Degree of stakeholder participation in the planning process Degree of stakeholder participation in the process of implementing plans Existence of performance indicators designated for evaluating the plan developed and used % of plan objectives which have been met % environmental, social, cultural actions recommended in plan which have been implemented % of accommodation units using primarily local architecture; % that have completed an Environmental Impact Assessment (EIA)
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	balance of actions Public participation Monitoring of plan implementation	Budget designated/spent for plan implementation Budget designated/spent for consultation and public participation Level of staff resources assigned to planning Impact assessment of environmental, social and cultural aspects of tourism completed Number of environmental, social, cultural and economic actions recommended in plan Degree of stakeholder participation in the planning process Degree of stakeholder participation in the process of implementing plans Existence of performance indicators designated for evaluating the plan developed and used % of plan objectives which have been met % environmental, social, cultural actions recommended in plan which have been implemented % of accommodation units using primarily local architecture; % that have completed an Environmental Impact Assessment (EIA) % tourism facilities and service providers regularly inspected for environmental health and safety Number of incidents of non-compliance with
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	balance of actions Public participation Monitoring of plan implementation	Budget designated/spent for plan implementation Budget designated/spent for consultation and public participation Level of staff resources assigned to planning Impact assessment of environmental, social and cultural aspects of tourism completed Number of environmental, social, cultural and economic actions recommended in plan Degree of stakeholder participation in the planning process Degree of stakeholder participation in the process of implementing plans Existence of performance indicators designated for evaluating the plan developed and used % of plan objectives which have been met % environmental, social, cultural actions recommended in plan which have been implemented % of accommodation units using primarily local architecture; % that have completed an Environmental Impact Assessment (EIA) % tourism facilities and service providers regularly inspected for environmental health and safety Number of incidents of non-compliance with

	Dublic portionation	I have been and of state aboldone in tourisms development
	Public participation	Involvement of stakeholders in tourism development activities of tourism office
	Government	% public sector employees with tourism training
	understanding of sustainable tourism	Level of tourism sector involvement in public policy
	Private sector cooperation	% tourism managers with environmental training
	for sustainable tourism	% Tour operators and hotels with environmental strategy or policy
Development Control	Whether any land use or	Existence of a land use or development planning
	development planning process exists explicitly	process, including tourism % of area subject to control
	incorporating tourism.	% of area designated for tourism purposes, for
		buildings
	Extent and effectiveness of	Existence of specific criteria for tourism development
	monitoring and control	control in plans, such as maximum numbers of
	processes	hotels/beds, density standards, design controls,
		environmental and social, etc
		% building proposals receiving environmental review,
		or undergo environmental impact assessment (EIA)
	Whether or not there is	% denied or sent for revision
		Existence of review procedures Number of charges for plan, zoning or site plan violations
	systematic enforcement of the plan and its criteria	Number of charges for plan, zoning or site plan violations
Tourism-Related	Knowledge of tourism	Tourist number visiting site
Transport	related mobility patterns	Seasonality
	, , , , , , , , , , , , , , , , , , , ,	Annual number of same-day visitors
		Total of km traveled per tourist per trip
		Modes of transport used by tourists to reach
		destination
	Access to the holiday destination	Density of roads
		Density of public transport
		Annual levels of investment in public transport compared with road infrastructure
		Frequency, capacity of services and use levels
		Number of direct flights, , number of cities served by
		direct flights
		Time of travel by passenger to destination
	Journey time and reliability	Ratio of public passenger transport versus private
		transport speed to reach destination in peak holiday periods to lowest periods
		Ratio of travel expenses by public versus private
		transport to reach destination
		Level of air and ground emissions for passenger
		transport during peak holiday periods to lowest
	Orfoto	Level of noise pollution
	Safety	Number of transport accidents and fatalities during peak holiday periods to lowest periods
		Trends in the number of days per year on which fixed
		air pollution thresholds are reached
		Impact on local health
		Level of facilitation of information and services
	Spatial and transport	Implementation of an integrated environmentally
	planning, management of tourism related transport	sound transport planning strategy
		Strategy translated into an action plan
	demand, and improve- ment of modal split	Number and extent of issues covered by the action plan
	1	Action taken to formulate interregional transport plans
	Tourists' demand	Tourists' and visitors' perceptions and demands of
	management regarding	local or regional transport supply and services
	mobility within destination	Number of passengers transported by local public transport for tourism / leisure purposes
		% of accommodations, tourism facilities and other
		tourist attractions accessible by public transport

	Access to the amenities	Extra means of transport especially set up for tourists:
	within the holiday	type of transport and number of passenger places
	destination	available during peak times
	Safety and security	% of death, or serious injuries due to road accidents during
	- Traffic congestion, stress,	peak holiday periods
	fatigue, unfamiliar weather	Total expenditure on building / maintaining dedicated cycle
	conditions and unfamiliar	and walking routes
	road layout result in more traffic accidents	Level of pedestrian infrastructure
	tranic accidents	Parking capacities and use levels
		Ratio of number of incidents including visitors and
		tourists in peak holiday periods to lowest periods
		Existing safety standards
		Number of staff on duty/surveillance system
		Level of facilitation of access to information on
		emergency measures and contingency plans
	Intermodality / Integration	Existence of multi-modal platforms
	of services	Existence of integrated public transport services
		Existence of integrated public transport fares
	-Links between long-haul	Provision of park-and-ride and bike-and-ride facilities:
	and local transport	number of parking spaces (public and private) for cars
	networks	or bicycles at public transport stops/stations serving
		tourist amenities
	- Seamless journey for the	
	tourists	
	- Use of new technologies	
	to maximise co-ordination	
	between transport modes	
	between transport modes	
	- Integration of public	
	transport services/fares	
	Ease of access	Ratio of annual public expenditure on information
		services for
	-Clear, accessible, reliable	public transport users to specific information services for holidaymakers, visitors and tourists
	information about services/	Existence of public transport service information on
	timetables/ ticketing before	the Internet or mobility centres
	and during the stay	Use of electronic booking for public transport
		Number of door-to-door services for visitors and
	- Door -to-door services	
	- D001 -10-0001 Services	
I		tourists
	Promotion of	tourists Length of cycle and walking paths, availability of bicycle
	Promotion of environmentally friendly	tourists Length of cycle and walking paths, availability of bicycle rental services
	Promotion of environmentally friendly transport modes as part of	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport
	Promotion of environmentally friendly transport modes as part of the holiday and measures	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport
	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle
	Promotion of environmentally friendly transport modes as part of the holiday and measures	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport
	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting
	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode
	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode of transport
	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode of transport Energy consumption and emissions per passenger
	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode of transport Energy consumption and emissions per passenger Existence, capacity of environmental-friendly vehicles and
	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode of transport Energy consumption and emissions per passenger Existence, capacity of environmental-friendly vehicles and transport modes
	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode of transport Energy consumption and emissions per passenger Existence, capacity of environmental-friendly vehicles and transport modes Availability and % of reserved public transport lanes and
	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode of transport Energy consumption and emissions per passenger Existence, capacity of environmental-friendly vehicles and transport modes Availability and % of reserved public transport lanes and parking spaces
Air Transport -	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport priority	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode of transport Energy consumption and emissions per passenger Existence, capacity of environmental-friendly vehicles and transport modes Availability and % of reserved public transport lanes and parking spaces Existing measures of restricting car access or parking spaces
Air Transport - Responding to	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode of transport Energy consumption and emissions per passenger Existence, capacity of environmental-friendly vehicles and transport modes Availability and % of reserved public transport lanes and parking spaces Existing measures of restricting car access or parking spaces Energy consumption
	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport priority Environmental impacts of air travel	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode of transport Energy consumption and emissions per passenger Existence, capacity of environmental-friendly vehicles and transport modes Availability and % of reserved public transport lanes and parking spaces Existing measures of restricting car access or parking spaces Energy consumption Atmospheric pollution
Responding to	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport priority	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode of transport Energy consumption and emissions per passenger Existence, capacity of environmental-friendly vehicles and transport modes Availability and % of reserved public transport lanes and parking spaces Existing measures of restricting car access or parking spaces Energy consumption Atmospheric pollution Land occupation
Responding to Changes in Patterns	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport priority Environmental impacts of air travel Impacts of airports and	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode of transport Energy consumption and emissions per passenger Existence, capacity of environmental-friendly vehicles and transport modes Availability and % of reserved public transport lanes and parking spaces Existing measures of restricting car access or parking spaces Energy consumption Atmospheric pollution Land occupation % or number of access roads with severe traffic
Responding to Changes in Patterns	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport priority Environmental impacts of air travel Impacts of airports and	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode of transport Energy consumption and emissions per passenger Existence, capacity of environmental-friendly vehicles and transport modes Availability and % of reserved public transport lanes and parking spaces Existing measures of restricting car access or parking spaces Energy consumption Atmospheric pollution Land occupation
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Responding to Changes in Patterns	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport priority Environmental impacts of air travel Impacts of airports and	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode of transport Energy consumption and emissions per passenger Existence, capacity of environmental-friendly vehicles and transport modes Availability and % of reserved public transport lanes and parking spaces Existing measures of restricting car access or parking spaces Energy consumption Atmospheric pollution Land occupation % or number of access roads with severe traffic congestion Noise Congestion: Number of hours spent by average tourist
Responding to Changes in Patterns	Promotion of environmentally friendly transport modes as part of the holiday and measures to give public transport priority Environmental impacts of air travel Impacts of airports and	tourists Length of cycle and walking paths, availability of bicycle rental services Extent and capacity of public transport % of travellers using alternative transport Level of support for low energy alternatives to vehicle transport % of the tourism related vehicle fleet meeting specified air and noise emissions standards by mode of transport Energy consumption and emissions per passenger Existence, capacity of environmental-friendly vehicles and transport modes Availability and % of reserved public transport lanes and parking spaces Existing measures of restricting car access or parking spaces Energy consumption Atmospheric pollution Land occupation % or number of access roads with severe traffic congestion Noise

	Socio-economic concerns	Cost of safety and security measures
	related to air travel	Number of employees to be trained in the air transport
		system per tourist
		Cost of skills and training for airport personnel
		% of annual costs covered by revenues at airport from
		different sources
	Access	Number of cities served with direct flights to/from the
		destination
		Number of flights per day and number of passengers
		%/number tourists who arrive on charter flights
		Number of airlines serving the destination
		Seasonality of service
	Security	Cost of screening of passengers and luggage for
		issues related to health, crime, terrorism
		Number of incidents at the airport
		Level of expenditure on security
		Guards or officials per traveller
		Existence of a contingency plan for the airport in the event of incidents
		Level of emergency services
		#/% tourists informed of security levels at airport
Creating Trip Circuits	Integrity of the Route	Existence of a multi-stakeholder tourism plan;
and Routes	Destination and Product	Amount of infrastructure and operational funds
	Coherence	Money spent on marketing the route or circuit
		% of towns and communities along the route participating
	- support and funds for	Tourist satisfaction
	organization	% tourists stopping at interim sites along the route versus passing through
	- travel on circuits should	
	harmonize with tourism at	
	destinations along the	
	route	
	Toute	
	common quality	
	- common quality standards	
	Staridards	
	complementary not	
	 complementary not competing attractions 	
	competing attractions	
	a a series and the series of the series of	
	- common branding,	
	signage	
	Community Conflicts or	% representation from each community in organizing team
	Cooperation	Number and participation level of coordination meetings and
	· ·	use of other mechanisms
	- amongst communities	% of funds/investment allocated to each community
	amongst communities	Number of reports/complaints from tourists and tour
	different mades of	operators
	- different modes of	Number of accidents on route
	transportation - Conflicts on route/circuit	
	- Cormicis on route/circuit	
	- different types of users,	
	Intensity of Use	Average and peak seasonal number of users and
	Environmental issues and	types of users
	impacts; carrying capacity,	
	limits of acceptable	
	change; land-based and	
	water-based circuits	
	Economic Impacts	% of tourists in the region attracted because of the
		Number of stops per tourist on route
		Number of stops per tourist on route
	<u> </u>	Average stay per tourist at stops on route

	- on towns and	Revenue earned attributable to the existence of the route
	communities along the	% of local business supplying services to tourists
	routes	along route
	- how is tourist spending	
	distributed along the route	
	Local Support	% of local populations supporting tourism on the route
		Number, % of tourism and related businesses
		participating in/ contributing to product development,
		marketing and other joint activities
Decodeline Mark 1	Maintainin	Number of community members actively participating
Providing Variety of Experiences	Maintaining a variety of experiences	Number of different attractions in or near destination
	Provision of the full range	Range of tourist services available in the destination
	of needed tourism services	Range of tourist services available year round
	Determining whether the tourists are satisfied with the variety of the destination	Perception of variety by tourists
Marketing for Sustainable Tourism	Identifying the market for more sustainable	% of visitors who seek environmentally friendly and culturally sensitive experiences
2.3.3abio i builbill	5 Sustainable	% of visitors willing to pay extra for these experiences
		of enhanced value
		Number of requests to local tourism authorities related
		to environmentally or culturally sensitive products
	Measuring the image of	% of establishments and operators marketing
	the destination or products	sustainable, sensitive or green products or
	considering sustainability aspects	experiences % of businesses that include information on
	αοροσιο	% of businesses that include information on environmental and social aspects of their operation
		% of certified businesses that include reference of the
		certification system in their promotional material
		% visitors who arrive seeking "green" experiences
	Meeting client expectations	Number of tourists who are satisfied with the
	re authenticity of products	environmental and cultural experiences
		Number of complaints
	Measuring level of	Volume of marketing products divided by type
	marketing effort	Level of representation/contact
	Tana Con Con Con Con	Cost of marketing
	Targeting the right	% of clients who self-identify as "green" or eco tourists
	clientele. Measuring degree of contact and reach of marketing	Numbers of potential tourists contacted
	Measuring response to any marketing	Market penetration, response surveys, or conversion studies
		% clients who arrive in response to specific ads or initiatives
		% of clients who participate in activities while at the
		destination, in response to specific ads or initiatives
	Evaluating client response	Occupancy rates in establishments promoting
	and satisfaction	sustainable products
		Price per room night Market share
		% clients who are satisfied with their experience
		% tourists who agree that the reality matched what
		was advertised
		Rank re other competing destinations – re quality, environment, image, satisfaction
		% tourists who perceive barriers to visiting the destination
	Responding to external	Number (%) of operators who request "green"
	demands	products, % of establishments with green programs (certifications, EMS)
		Numbers of requests (numbers seeking "green"
		products)

		Number of complaints received
		Speed of response to complaints
		% satisfaction with how complaints were handled
Protection of the Image of a Destination	Image held by current tourists	% of tourists who have a positive image of the destination
		% of tourists who would recommend the destination to their peers
		specific responses to key questions re key attractions
	Image held by those who	and activities % of potential market(s) who have a positive image of the
	have not visited the	destination
	destination	Rank of destination on list of destinations
	Image in marketplace	% of operators (inbound, outbound) who perceive the destination as a safe, attractive, interesting, good value etc destination
	Brand development	Level of funding allocated to brand development and other branding activities
		Degree of match with the preferred values of the destination's targeted markets and partner
		organizations
	Brand refinement	% of key actors Annual percentage of the tourism-marketing budget
	טימווע וכוווופווופוון	allocated to advertisement and promotion
		Reach of advertising - Number of tourists
		receiving/recognizing, responding. Number reached for the dollar spent
		Percentage of market, operators, local
		representatives, employees and stakeholders perceiving brand to positively reflect their preferred
		attributes and values
	Brand effectiveness	Annual value/percentage of the tourism-marketing budget allocated to monitoring satisfaction
		Percentage of visitors who:
		- believe the brand values, attributes and benefits communicated were met during their trips
		- think the brand attributes, values and benefits rank more favourably than other similar destinations
		- recall the brand name
		- are repeat visitors and/or expect to return to the destination
		who intend to return specifically to experience key brand values, benefits and attributes
	Indicators of brand	Level of protection for key branding tools. Percentage
	protection	which are patented/copyrighted Perceived value of the branding programs to
		stakeholders. Percentage of stakeholders surveyed
		who believe the branding programs help improve the
		value and performance of their tourism operations
		Level of effort to monitor public image (print, web, other media
		Percentage of stakeholders, consumers and
		competitors who attribute the brand features solely to the destination
Sustainability and	Environmental	% of establishments in the destination with formal
Environmental Management Policies	management systems and environmental initiatives	Existence of company policy on environmental and
and Practices at Tourism Businesses		sustainability issues
TOUTISTIT DUSTITESSES		Existence of designated personnel for environmental and sustainability management issues at the company

	Training of staff on environmental issues
	Application of environmentally friendly technologies
	and techniques
Social responsibility	Existence of company policies aiming at social issues
	of employment and relation with host communities

Source: UNTWO (2004)