



Online Platform Training Session

Málaga, April 4th 2018



MITOMED+



Topics

- Introduction
- Accessing the platform
- Using the map (Home screen)
- Destination management
- Using the dashboard
- Questions

Introduction

Goals

- The goal of the Mitomed+ Project is to enhance the development of a sustainable and responsible coastal and maritime tourism in the MED area
- The project's online platform contributes to this goal by providing a web interface for the management of key indicators, along with user-friendly tools for the comprehensive analysis of those indicators

Introduction

Why is this important?

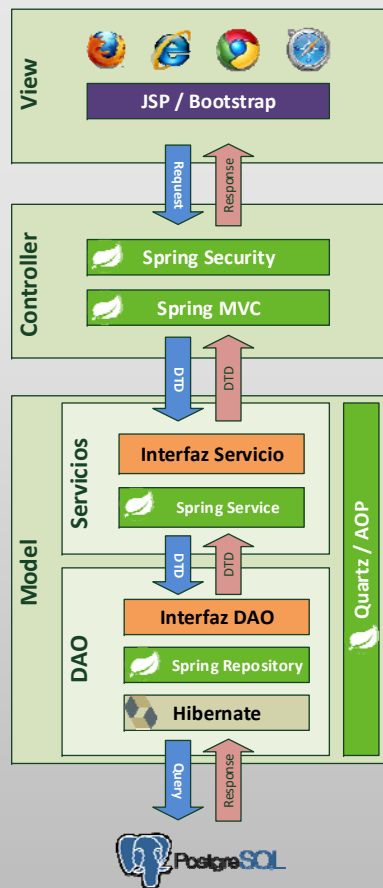
- Supporting decision making in the evolution process towards sustainable destinations
 - Evolution strategy must be articulated on different action areas (Boes et al., 2015), (Buhalis, Amaranggana 2013)
- Decision making must be based on quantifiable criteria → Set of indicators
 - An integrated destination management system must include a decision making support subsystem (Guevara, A. & Rossi, C. 2014)

Introduction

How are we doing it?

- Project management based on agile methodologies: Scrum (Schwaber & Sutherland, 2016)
- Software development based on open source technologies: Java, PostgreSQL, Spring, Hibernate, Jasper Reports, etc.

Introduction – Platform architecture



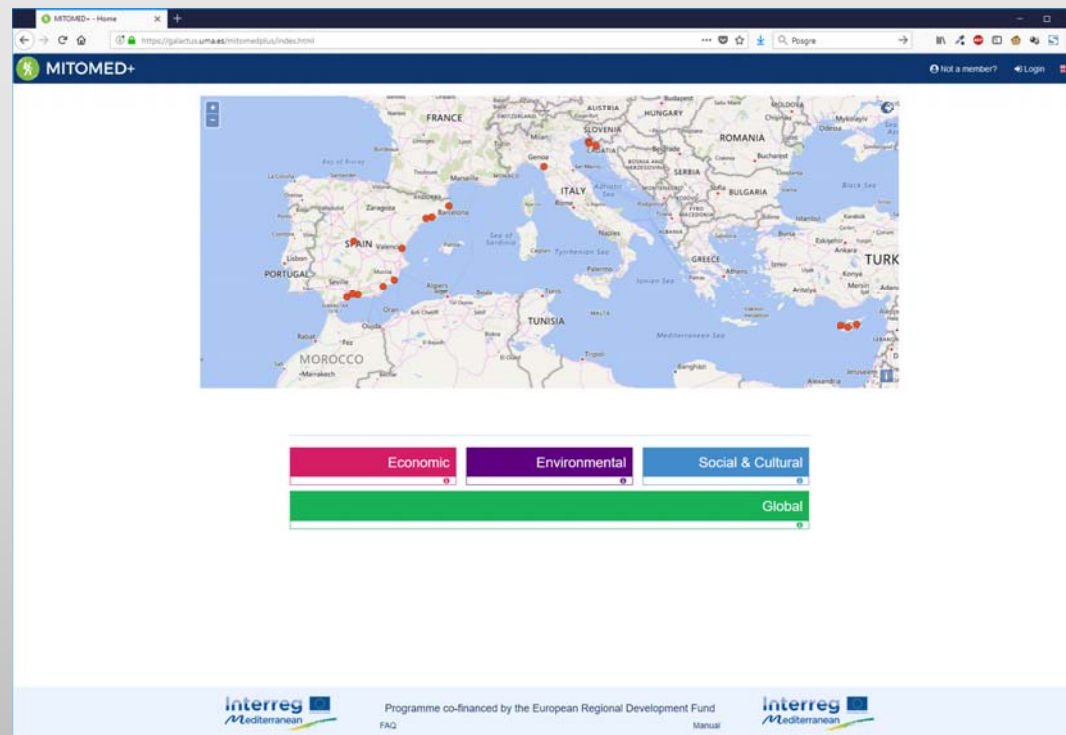
Based on a three layer design pattern called MVC (Model-View-Controller):

- View: presentation layer. User interaction takes place here
- Controller: Where the decision on what actions to make is taken, based on the user's input
- Model: All the business logic (transactions, calculations, etc.) and data access takes place here

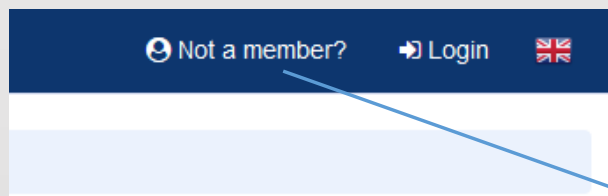
Accessing the platform



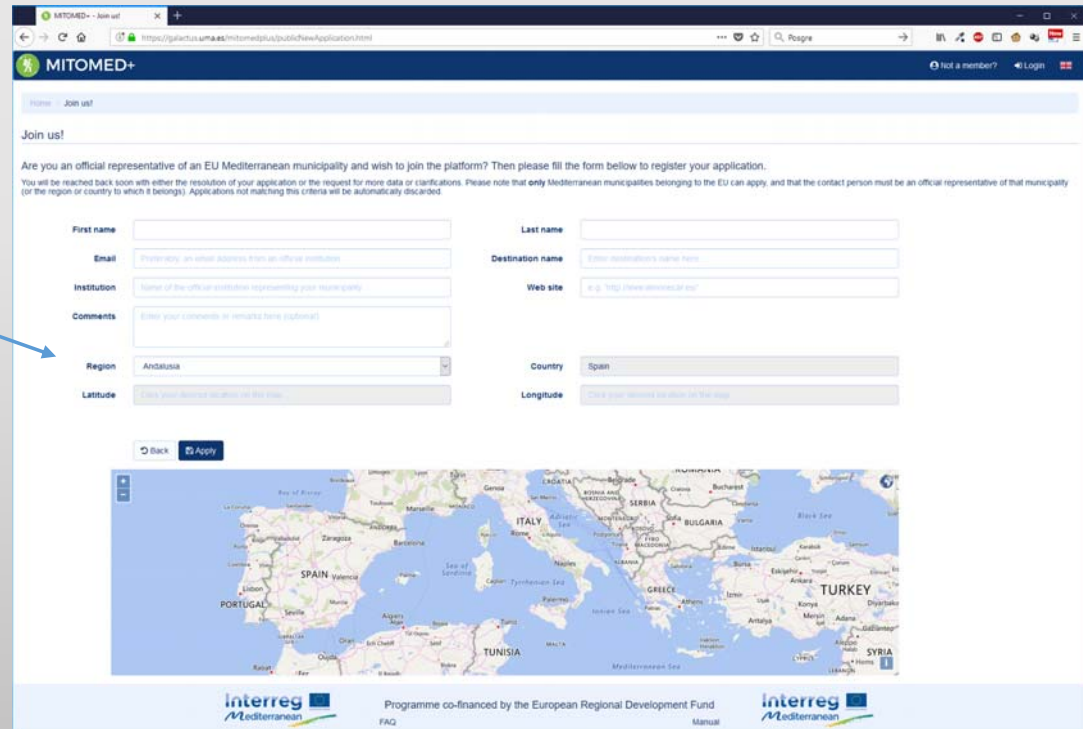
Accessing the platform - Home



Accessing the platform – Applying



Note that the applying process is moderated. Applicants will receive a confirmation email and will be reached back by the administrator



MITOMED+ Join us!

Join us!

Are you an official representative of an EU Mediterranean municipality and wish to join the platform? Then please fill the form below to register your application. You will be reached back soon with either the resolution of your application or the request for more data or clarifications. Please note that **only** Mediterranean municipalities belonging to the EU can apply, and that the contact person must be an official representative of that municipality (or the region or country to which it belongs). Applications not matching this criteria will be automatically discarded.

First name

Last name

Email Preferably, an email address from an official institution

Destination name Enter destination's name here

Institution Name of the official institution representing your municipality

Web site e.g. "http://www.democrati.es/"


Comments Enter your comments or remarks here (optional)

Region Andalusia

Country Spain

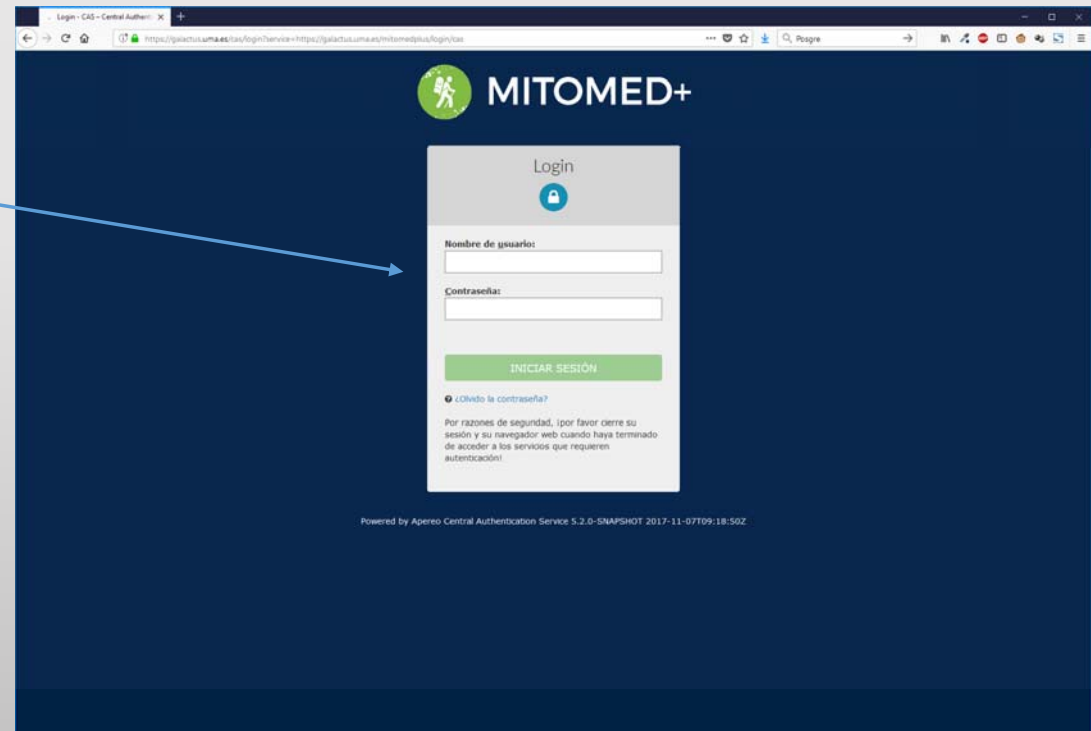
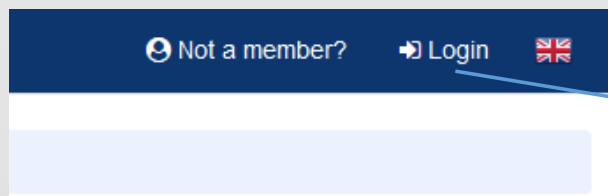
Latitude Click your device location on the map

Longitude Click your device location on the map

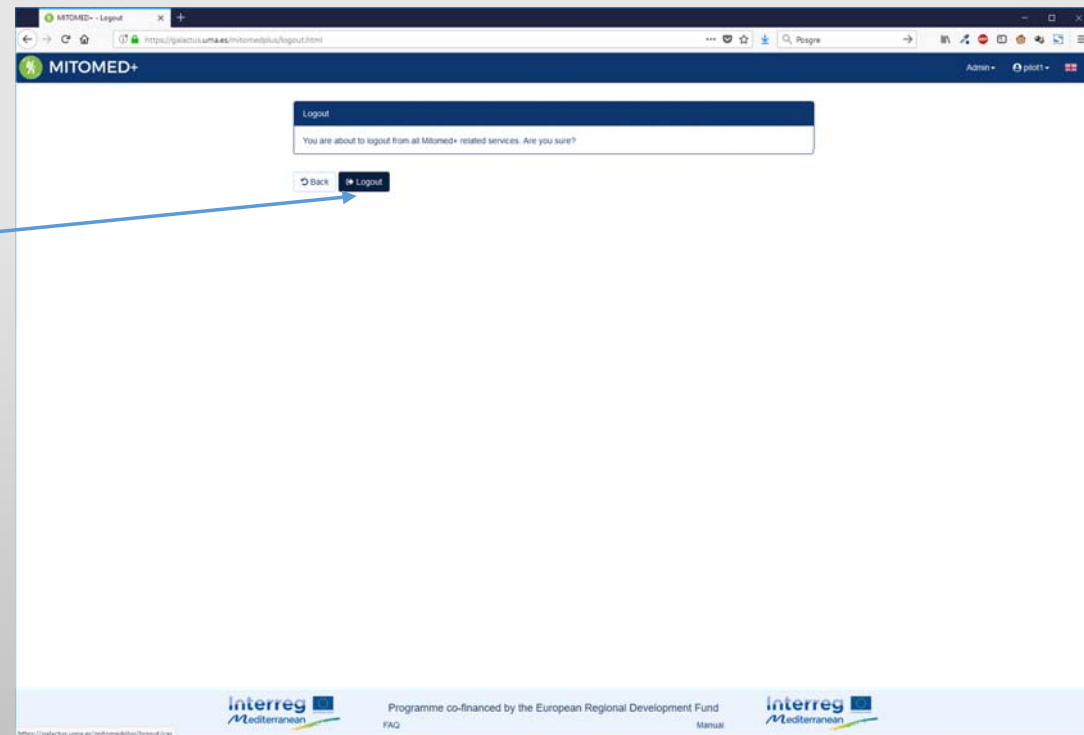
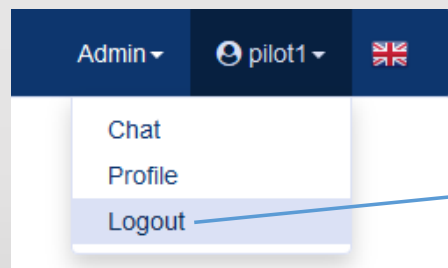


Interreg Mediterranean Programme co-financed by the European Regional Development Fund **Interreg Mediterranean** Manual

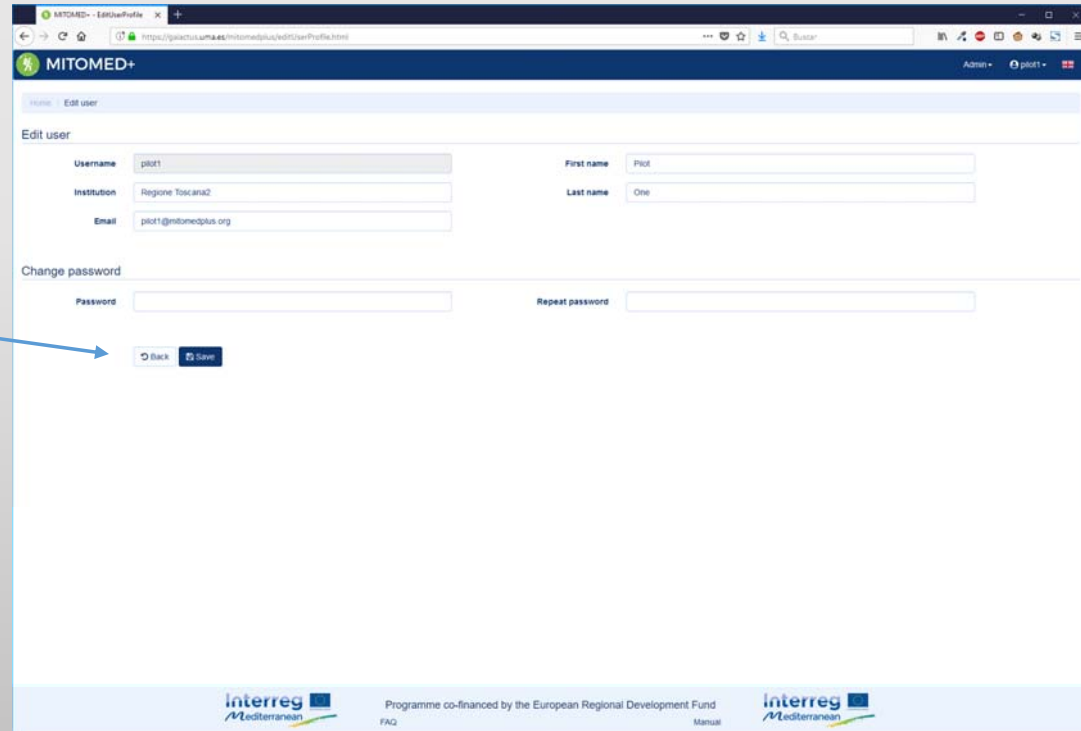
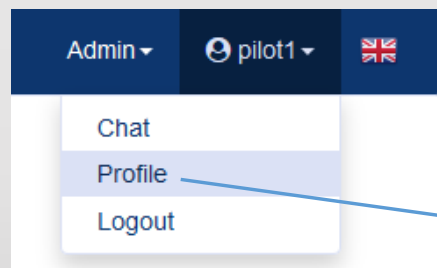
Accessing the platform – Login



Accessing the platform – Logout



Accessing the platform – User profile



A screenshot of the MITOMED+ web application showing the 'Edit user' profile page. The page has a dark blue header with the MITOMED+ logo and user information. The main content area is white and contains several form fields. A blue arrow points from the 'Profile' option in the dropdown menu to the 'Edit user' section.

Edit user

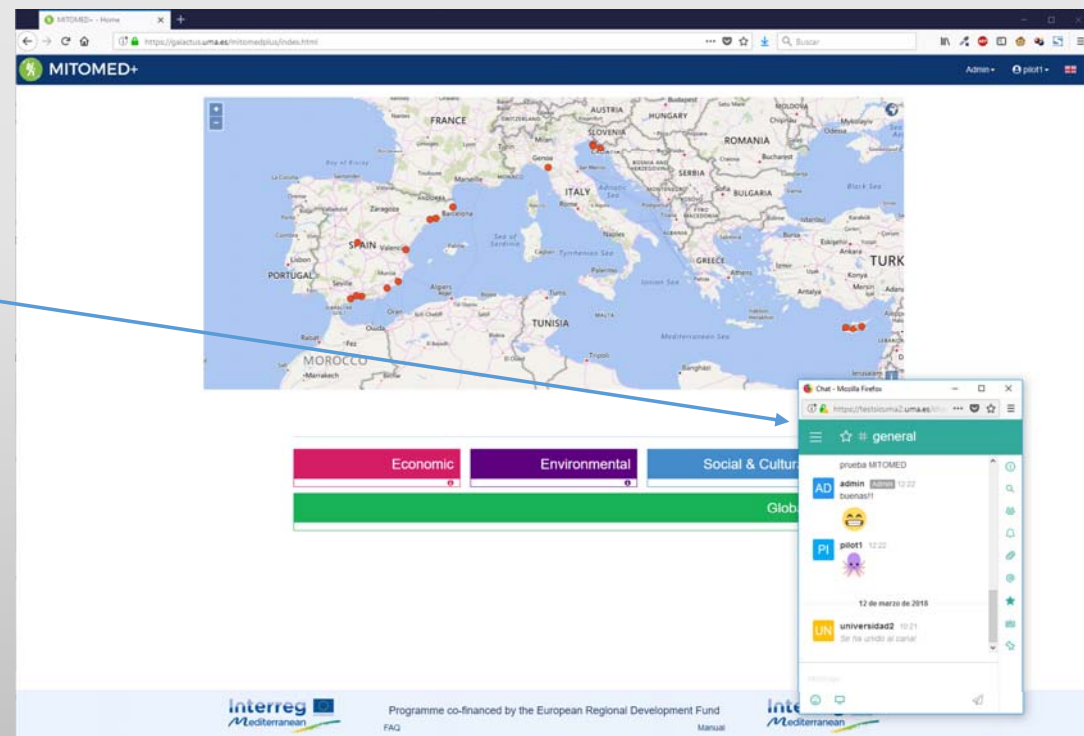
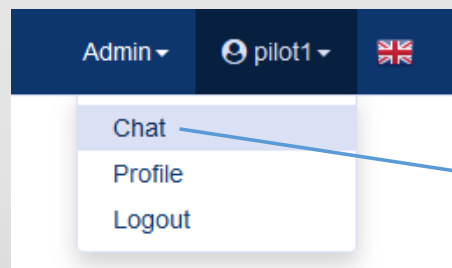
Username	<input type="text" value="pilot1"/>	First name	<input type="text" value="Pilot"/>
Institution	<input type="text" value="Regione Toscana2"/>	Last name	<input type="text" value="One"/>
Email	<input type="text" value="pilot1@mitomedplus.org"/>		

Change password

Password	<input type="password"/>	Repeat password	<input type="password"/>
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Interreg Mediterranean Programme co-financed by the European Regional Development Fund

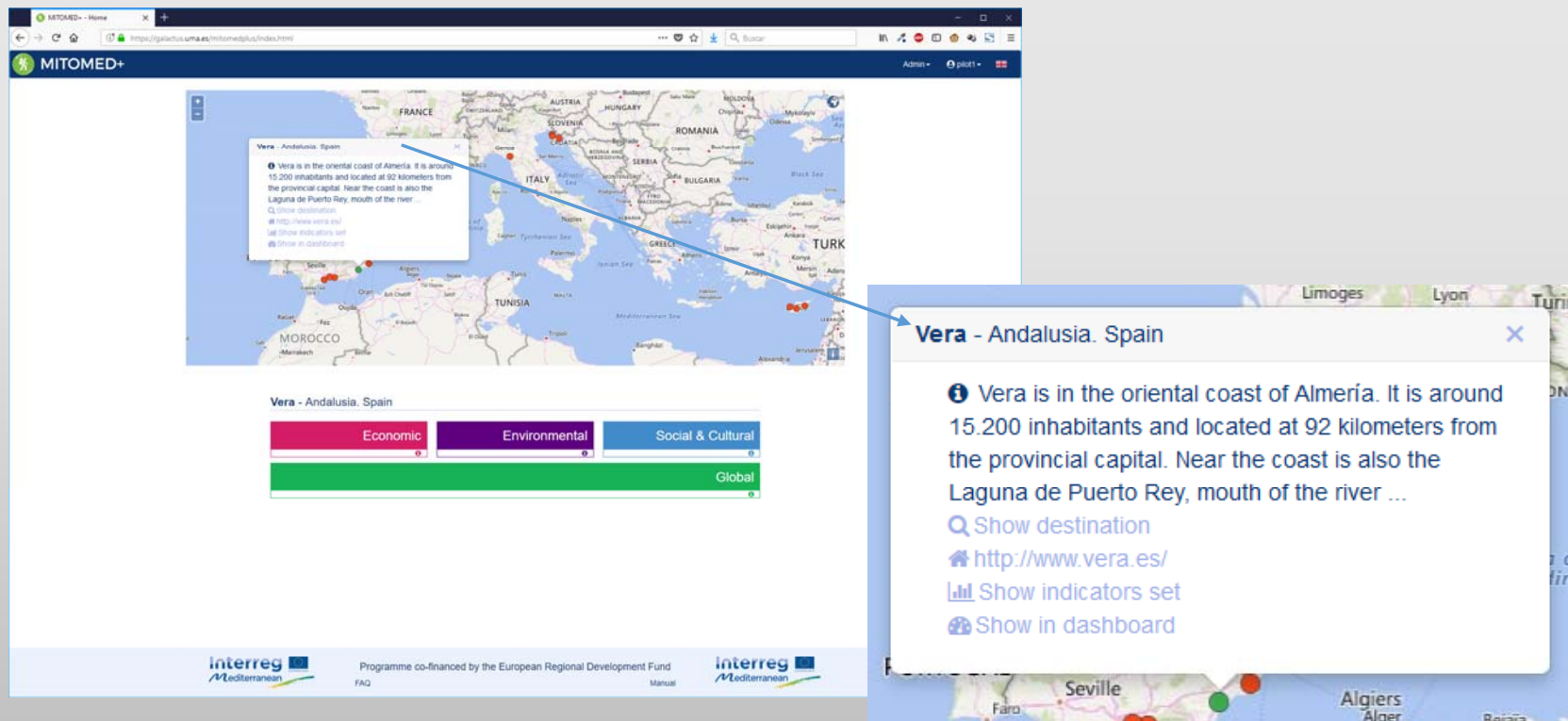
Accessing the platform – Chat tool



Using the map



Using the map – Choosing a destination



The screenshot shows the MITOMED+ web application interface. At the top, there's a navigation bar with the MITOMED+ logo and user options. The main area features a map of the Mediterranean region. A pop-up window is displayed over the map, providing information about Vera, Andalusia, Spain. The pop-up includes a description, a list of indicators (Economic, Environmental, Social & Cultural, Global), and links to show the destination, indicators set, and dashboard. A blue arrow points from the map to the pop-up window.

Vera - Andalusia, Spain

Vera is in the oriental coast of Almería. It is around 15.200 inhabitants and located at 92 kilometers from the provincial capital. Near the coast is also the Laguna de Puerto Rey, mouth of the river ...

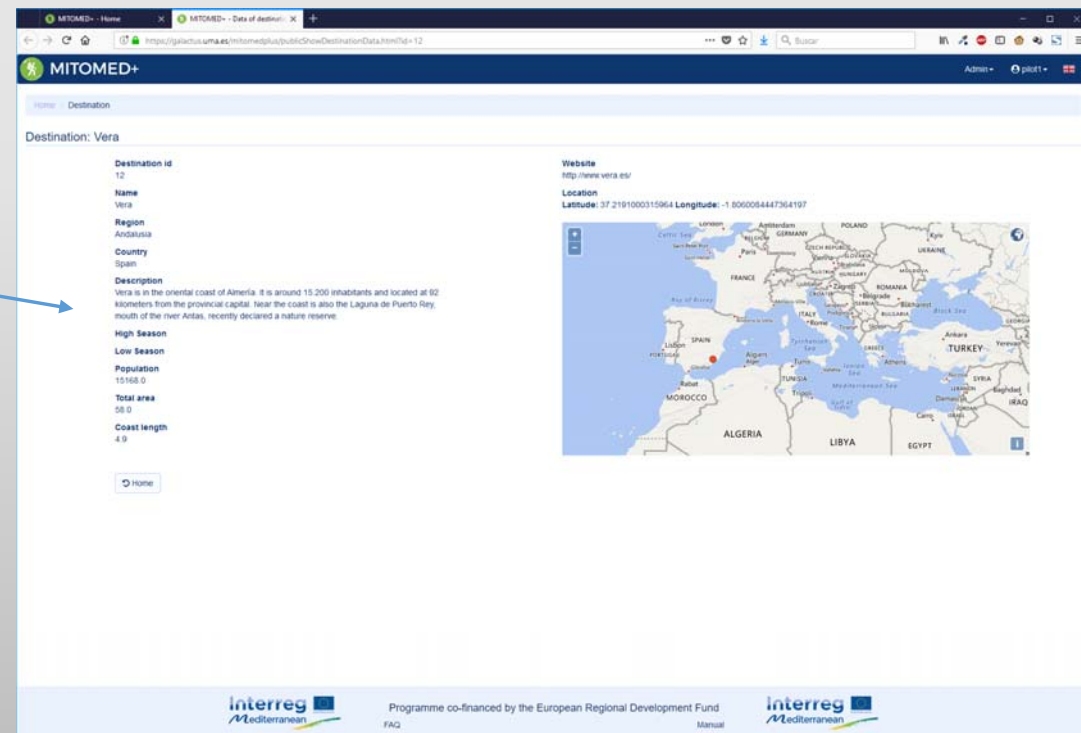
- Show destination
- <http://www.vera.es/>
- Show indicators set
- Show in dashboard

Vera - Andalusia, Spain

Economic Environmental Social & Cultural Global

Interreg Mediterranean Programme co-financed by the European Regional Development Fund

Using the map – Destination data



Using the map – Show indicators



Vera - Andalusia. Spain

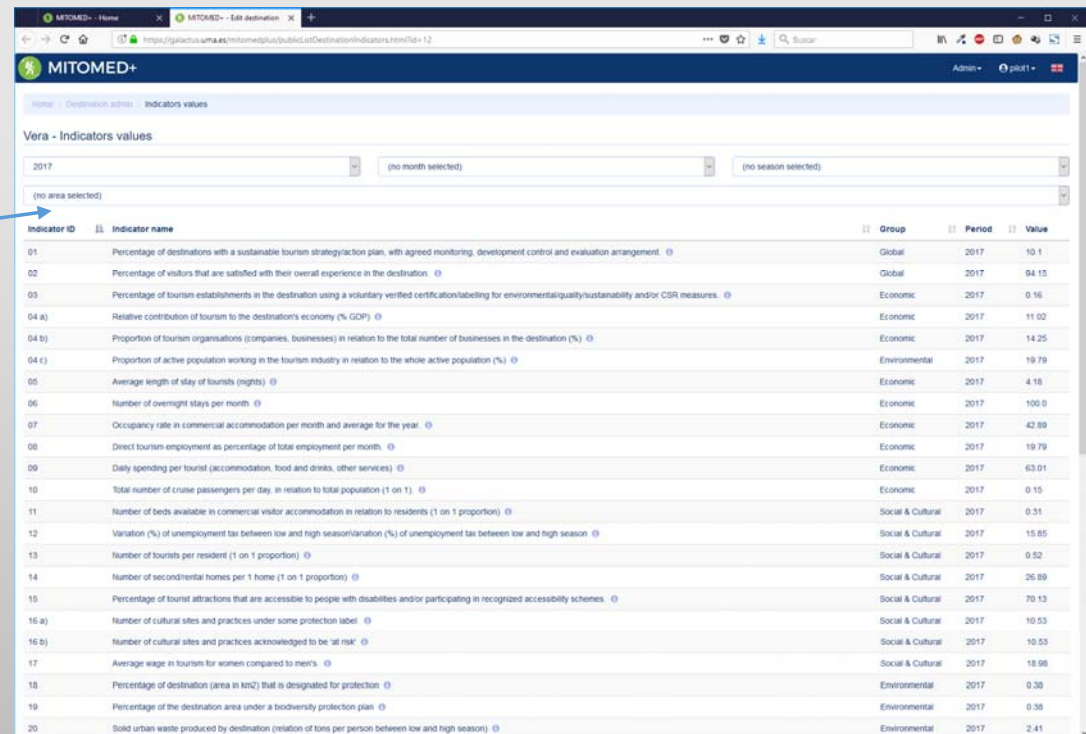
i Vera is in the oriental coast of Almería. It is around 15.200 inhabitants and located at 92 kilometers from the provincial capital. Near the coast is also the Laguna de Puerto Rey, mouth of the river ...

[Show destination](#)

<http://www.vera.es/>

[Show indicators set](#)

[Show in dashboard](#)



MITOMED+

Home - Destination admin - Indicators values

Vera - Indicators values

2017 (no month selected) (no season selected)

(no area selected)

Indicator ID	Indicator name	Group	Period	Value
01	Percentage of destinations with a sustainable tourism strategy/action plan, with agreed monitoring, development control and evaluation arrangement.	Global	2017	10.1
02	Percentage of visitors that are satisfied with their overall experience in the destination.	Global	2017	94.15
03	Percentage of tourism establishments in the destination using a voluntary verified certification/labeling for environmental/quality/sustainability and/or CSR measures.	Economic	2017	0.16
04 a)	Relative contribution of tourism to the destination's economy (% GDP).	Economic	2017	11.02
04 b)	Proportion of tourism organisations (companies, businesses) in relation to the total number of businesses in the destination (%).	Economic	2017	14.25
04 c)	Proportion of active population working in the tourism industry in relation to the whole active population (%).	Environmental	2017	19.79
05	Average length of stay of tourists (nights).	Economic	2017	4.18
06	Number of overnight stays per month.	Economic	2017	100.0
07	Occupancy rate in commercial accommodation per month and average for the year.	Economic	2017	42.89
08	Direct tourism employment as percentage of total employment per month.	Economic	2017	19.79
09	Daily spending per tourist (accommodation, food and drinks, other services).	Economic	2017	63.01
10	Total number of cruise passengers per day, in relation to total population (1 on 1).	Economic	2017	0.15
11	Number of beds available in commercial visitor accommodation in relation to residents (1 on 1 proportion).	Social & Cultural	2017	0.31
12	Variation (%) of unemployment rate between low and high season/variation (%) of unemployment rate between low and high season.	Social & Cultural	2017	15.85
13	Number of tourists per resident (1 on 1 proportion).	Social & Cultural	2017	0.52
14	Number of second/holiday homes per 1 home (1 on 1 proportion).	Social & Cultural	2017	26.89
15	Percentage of tourist attractions that are accessible to people with disabilities and/or participating in recognized accessibility schemes.	Social & Cultural	2017	70.13
16 a)	Number of cultural sites and practices under some protection label.	Social & Cultural	2017	10.53
16 b)	Number of cultural sites and practices acknowledged to be 'at risk'.	Social & Cultural	2017	10.53
17	Average wage in tourism for women compared to men's.	Social & Cultural	2017	18.98
18	Percentage of destination (area in km2) that is designated for protection.	Environmental	2017	0.38
19	Percentage of the destination area under a biodiversity protection plan.	Environmental	2017	0.38
20	Solid urban waste produced by destination (relation of tons per person between low and high season).	Environmental	2017	2.41

Using the map – Accessing the dashboard

Vera - Andalusia. Spain

i Vera is in the oriental coast of Almería. It is around 15.200 inhabitants and located at 92 kilometers from the provincial capital. Near the coast is also the Laguna de Puerto Rey, mouth of the river ...

[Show destination](#)

<http://www.vera.es/>

[Show indicators set](#)

[Show in dashboard](#)

Vera - Andalusia. Spain

Economic **Environmental** **Social & Cultural** **Global**

MITOMED+

Destination: Vera

Area: Global
Year: 2017
Month: (no month selected)
Season: (no season selected)

[My destination](#) [Comparative](#)
[Evolution](#) [Ranking](#)

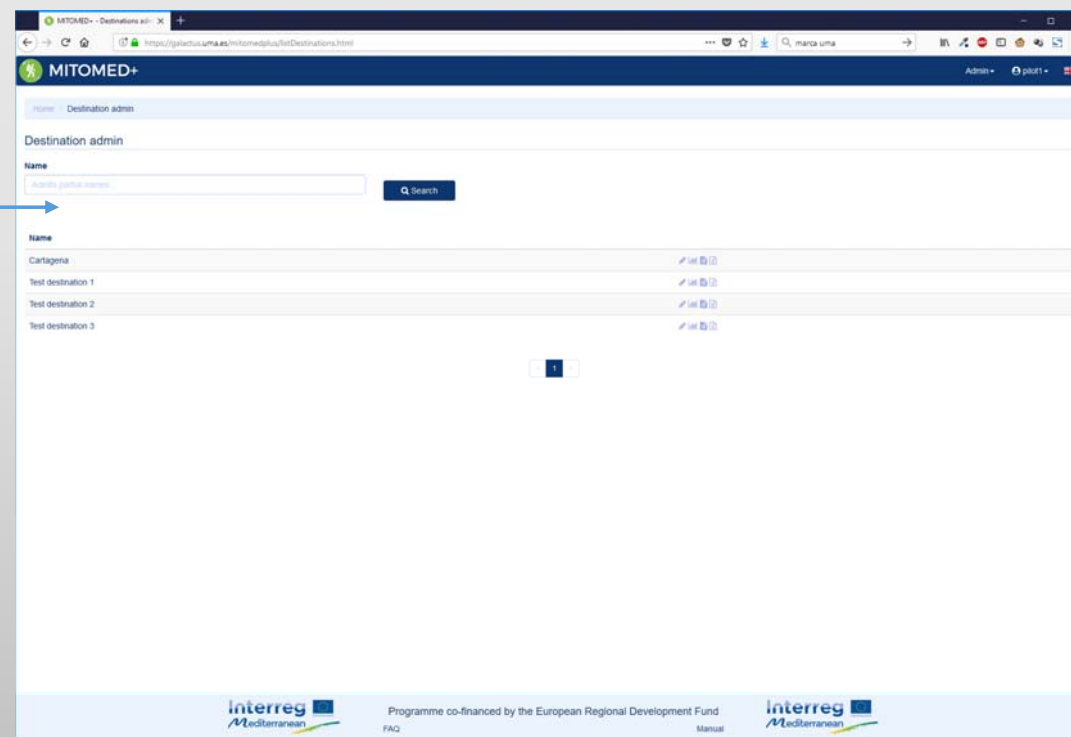
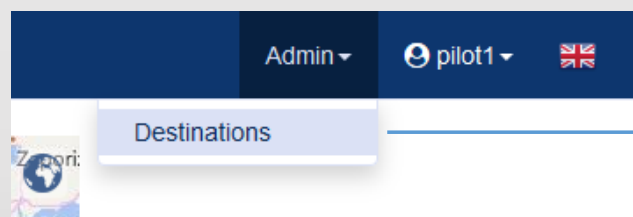
[PDF](#) [Excel](#) [CSV](#)

Indicators	Value	Variation	Alert	Threshold
01 Percentage of destinations with a sustainable tourism strategy/action plan, with agreed monitoring, development control and evaluation arrangement.	10.10	10.10	●	■
02 Percentage of visitors that are satisfied with their overall experience in the destination.	94.15	0.48	●	■
03 Percentage of tourism establishments in the destination using a voluntary verified certification/labeling for environmental quality /sustainability and/or CSR measures.	0.16	0.16	●	■
04 a) Relative contribution of tourism to the destination's economy (% GDP)	11.02	0.13	●	■
04 b) Proportion of tourism organisations (companies, businesses) in relation to the total number of businesses in the destination (%)	14.25	0.86	●	■
04 c) Proportion of active population working in the tourism industry in relation to the whole active population (%)	19.79	0.76	●	■
05 Average length of stay of tourists (nights)	4.18	-0.27	●	■
06 Number of overnight stays per month	100.00	0.00	●	■
07 Occupancy rate in commercial accommodation per month and average for the year	42.89	0.53	●	■
08 Direct tourism employment as percentage of total employment per month	19.79	0.76	●	■
09 Daily spending per tourist (accommodation, food and drinks, other services)	63.01	-0.23	●	■
10 Total number of cruise passengers per day, in relation to total population (1 on 1)	0.15	-0.08	●	■
11 Number of beds available in commercial visitor accommodation in relation to residents (1 on 1 proportion)	0.31	-0.02	●	■
12 Variation (%) of unemployment rate between low and high season/variation (%) of unemployment rate between low and high season	15.85	5.63	●	■
13 Number of tourists per resident (1 on 1 proportion)	0.52	0.30	●	■
14 Number of secondhand homes per 1 home (1 on 1 proportion)	26.89	4.35	●	■
15 Percentage of tourist attractions that are accessible to people with disabilities and/or participating in recognized accessibility schemes	70.13	4.13	●	■
16 a) Number of cultural sites and practices under some protection label	10.53	10.53	●	■
16 b) Number of cultural sites and practices acknowledged to be 'at risk'	10.53	0.00	●	■
17 Average wage in tourism for women compared to men's	18.96	0.75	●	■
18 Percentage of destination (area in km2) that is designated for protection	0.38	0.00	●	■
19 Percentage of the destination area under a biodiversity protection plan	0.38	0.00	●	■
20 Solid urban waste produced by destination (relation of tons per person between low and high season)	2.41	0.28	●	■
21 Volume of solid urban waste recycled (relation between low and high season)	0.83	0.09	●	■

Destination management

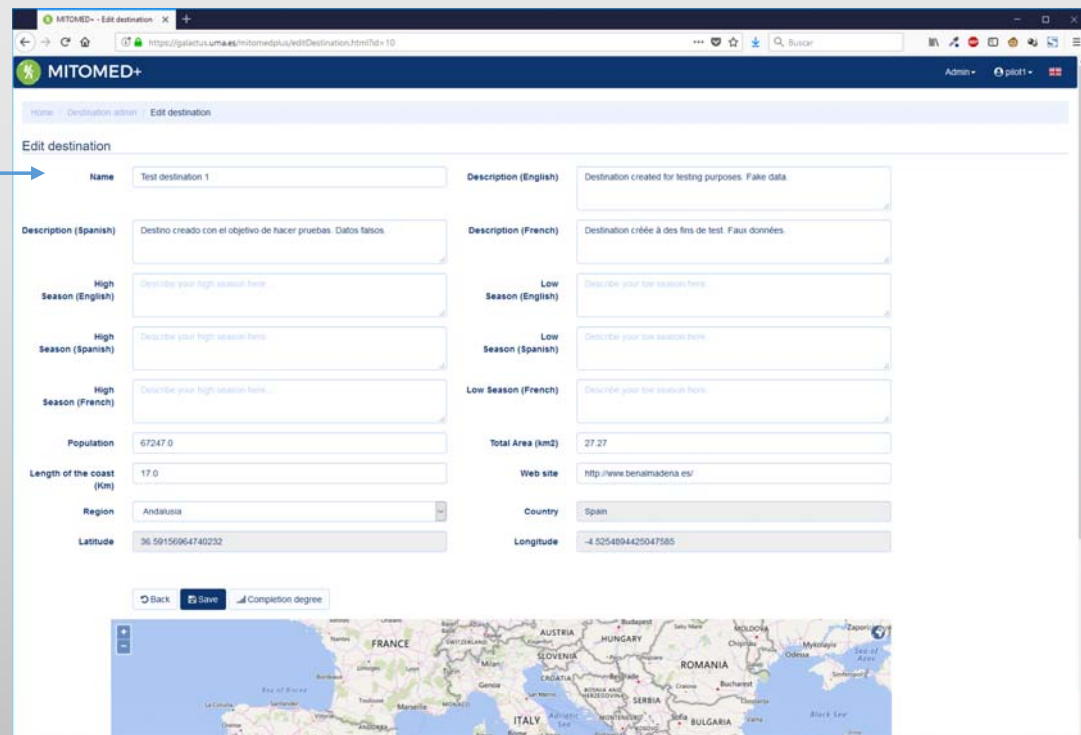


Destination management



Destination management – Edit

Name	
Test destination 1	  
Test destination 2	  
Test destination 3	  
Test destination 4	  




MITOMED+ - Edit destination

Home / Destination admin / Edit destination

Edit destination

Name	Test destination 1	Description (English)	Destination created for testing purposes. Fake data.
Description (Spanish)	Destino creado con el objetivo de hacer pruebas. Datos falsos.		
High Season (English)	Describe your high season here.	Low Season (English)	Describe your low season here.
High Season (Spanish)	Describe your high season here.	Low Season (Spanish)	Describe your low season here.
High Season (French)	Describe your high season here.	Low Season (French)	Describe your low season here.
Population	67247.0	Total Area (km2)	27.27
Length of the coast (Km)	17.0	Web site	http://www.benalmadena.es/
Region	Andalusia	Country	Spain
Latitude	36.5915064740232	Longitude	-4.5254894425047585

Back Save Completion degree



Destination management – Indicators' values

Name	
Test destination 1	  
Test destination 2	  
Test destination 3	  
Test destination 4	  

MITOMED+ - Edit destination - X

https://galectus.uma.es/mitomedplus/testEditDestinationIndicators.html?id=10

Admin • pilot1 •

Home • Destination admin • Indicators values

Test destination 1 - Indicators values

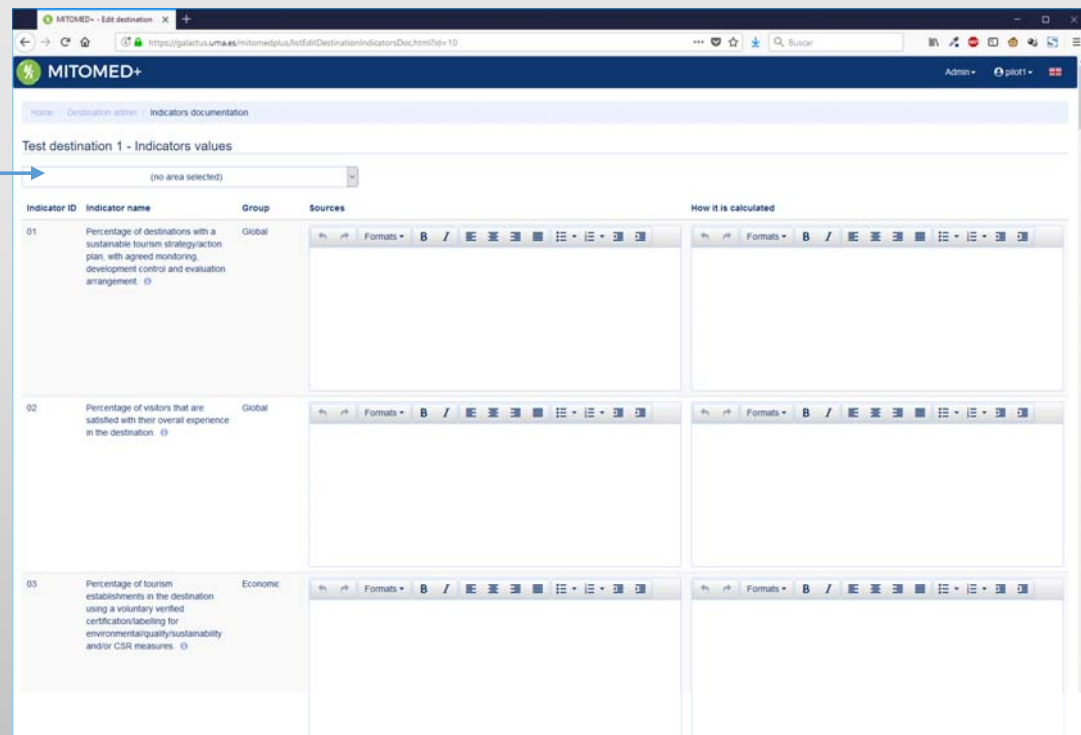
Area? (no month selected) (no season selected)

(no area selected)

Indicator ID	Indicator name	Group	Period	Value
01	Percentage of destinations with a sustainable tourism strategy/action plan, with agreed monitoring, development control and evaluation arrangement. ⓘ	Global	2017	6.5
02	Percentage of visitors that are satisfied with their overall experience in the destination. ⓘ	Global	2017	3.0
03	Percentage of tourism establishments in the destination using a voluntary verified certification/labeling for environmental/quality/sustainability and/or CSR measures. ⓘ	Economic	2017	63.0
04 a)	Relative contribution of tourism to the destination's economy (% GDP). ⓘ	Economic	2017	37.0
04 b)	Proportion of tourism organisations (companies, businesses) in relation to the total number of businesses in the destination (%). ⓘ	Economic	2017	<input type="text" value=""/>
04 c)	Proportion of active population working in the tourism industry in relation to the whole active population (%). ⓘ	Environmental	2017	<input type="text" value=""/>
05	Average length of stay of tourists (nights). ⓘ	Economic	2017	<input type="text" value=""/>
06	Number of overnight stays per month. ⓘ	Economic	2017	69.0
07	Occupancy rate in commercial accommodation per month and average for the year. ⓘ	Economic	2017	35.0
08	Direct tourism employment as percentage of total employment per month. ⓘ	Economic	2017	21.0
09	Daily spending per tourist (accommodation, food and drinks, other services). ⓘ	Economic	2017	4.0
10	Total number of cruise passengers per day, in relation to total population (1 on 1). ⓘ	Economic	2017	1.0
11	Number of beds available in commercial visitor accommodation in relation to residents (1 on 1 proportion). ⓘ	Social & Cultural	2017	55.0
12	Variation (%) of unemployment tax between low and high season/variation (%) of unemployment tax between low and high season. ⓘ	Social & Cultural	2017	80.0
13	Number of tourists per resident (1 on 1 proportion). ⓘ	Social & Cultural	2017	91.0
14	Number of second rental homes per 1 home (1 on 1 proportion). ⓘ	Social & Cultural	2017	<input type="text" value=""/>

Destination management – Indicators' data

Name	
Test destination 1	  
Test destination 2	  
Test destination 3	  
Test destination 4	  



MITOMED+ - Edit destination

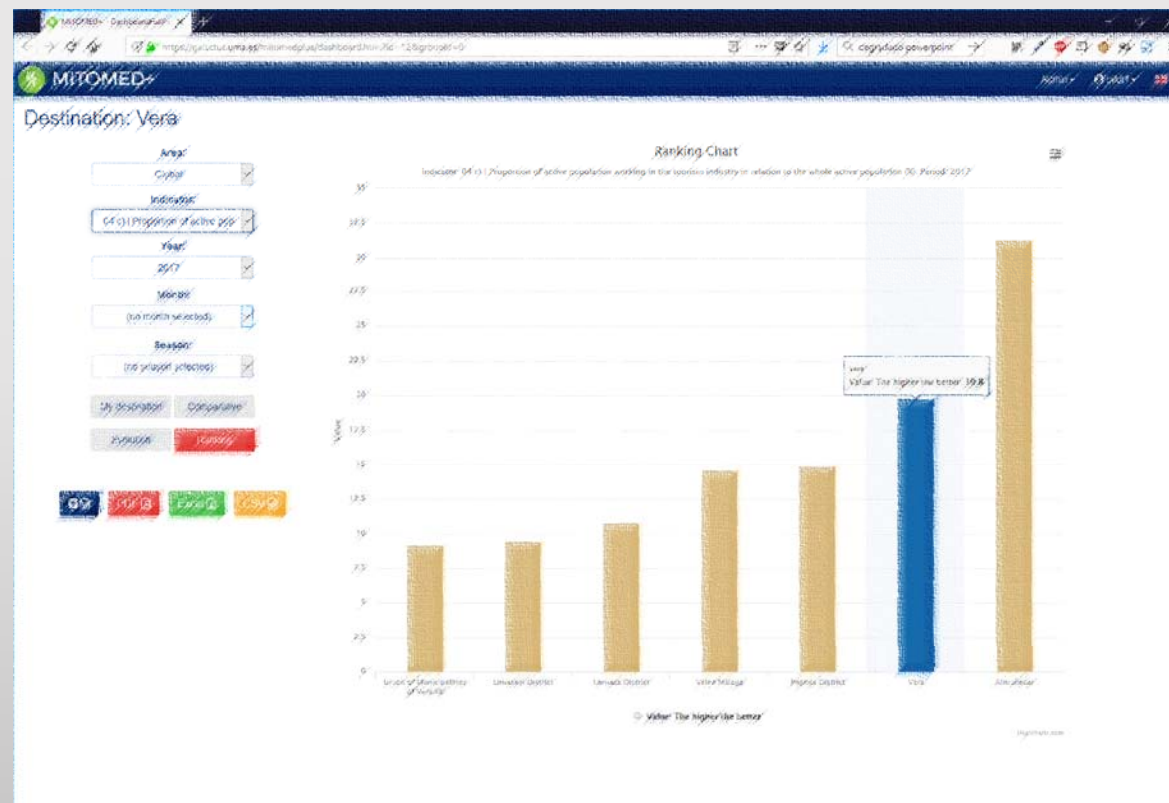
Home Destination admin Indicators documentation

Test destination 1 - Indicators values

(no area selected)

Indicator ID	Indicator name	Group	Sources	How it is calculated
01	Percentage of destinations with a sustainable tourism strategy/action plan, with agreed monitoring, development control and evaluation arrangement. ⓘ	Global		
02	Percentage of visitors that are satisfied with their overall experience in the destination. ⓘ	Global		
03	Percentage of tourism establishments in the destination using a voluntary verified certification/labelling for environmental/quality/sustainability and/or CSR measures. ⓘ	Economic		

Using the dashboard



Using the dashboard

1

Area:
Global

Year:
2017

Month:
(no month selected)

Season:
(no season selected)

2

My destination Comparative

Evolution Ranking

4

PDF Excel CSV

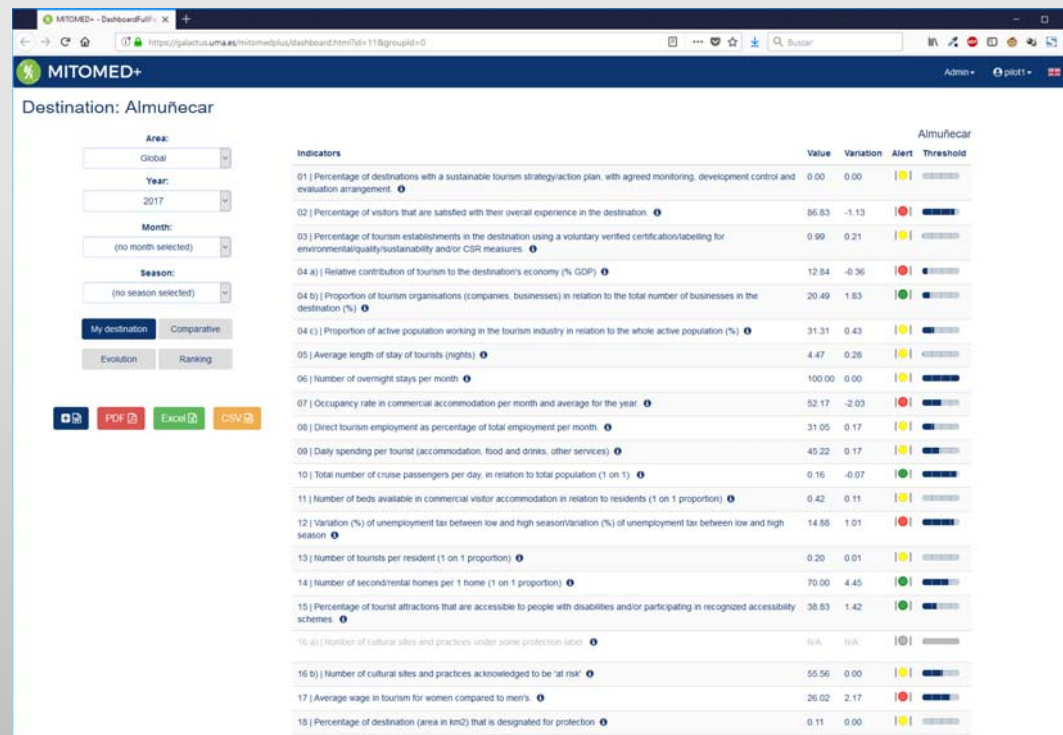
3

Indicators	Value	Variation	Alert	Threshold
01 Percentage of destinations with a sustainable tourism strategy/action plan, with agreed monitoring, development control and evaluation arrangement. ⓘ	64.00	8.00	●	<div style="width: 100%;"></div>
02 Percentage of visitors that are satisfied with their overall experience in the destination. ⓘ	37.00	-61.00	●	<div style="width: 100%;"></div>
03 Percentage of tourism establishments in the destination using a voluntary verified certification/labelling for environmental/quality/sustainability and/or CSR measures. ⓘ	13.00	-78.00	●	<div style="width: 100%;"></div>
04 a) Relative contribution of tourism to the destination's economy (% GDP) ⓘ	28.00	-15.00	●	<div style="width: 100%;"></div>
04 b) Proportion of tourism organisations (companies, businesses) in relation to the total number of businesses in the destination (%) ⓘ	16.00	0.00	●	<div style="width: 100%;"></div>
04 c) Proportion of active population working in the tourism industry in relation to the whole active population (%) ⓘ	N/A	N/A	●	<div style="width: 100%;"></div>
05 Average length of stay of tourists (nights) ⓘ	N/A	N/A	●	<div style="width: 100%;"></div>
06 Number of overnight stays per month ⓘ	73.00	64.90	●	<div style="width: 100%;"></div>
07 Occupancy rate in commercial accommodation per month and average for the year. ⓘ	21.00	-42.00	●	<div style="width: 100%;"></div>
08 Direct tourism employment as percentage of total employment per month. ⓘ	82.00	39.00	●	<div style="width: 100%;"></div>
09 Daily spending per tourist (accommodation, food and drinks, other services) ⓘ	28.00	27.00	●	<div style="width: 100%;"></div>

1. Filters
2. Display mode

3. Data display layer
4. Export buttons

Using the dashboard – My destination



Using the dashboard – Comparative

MITOMED+ - DashboardFull - X

https://galelus.uma.es/mitomedplus/dashboard.html?id=11&groupid=0

MITOMED+

Admin • user1 •

Destination: Almuñecar

Area: Global

Year: 2017

Month: (no month selected)

Season: (no season selected)

Destinations: Vélez Málaga Vera

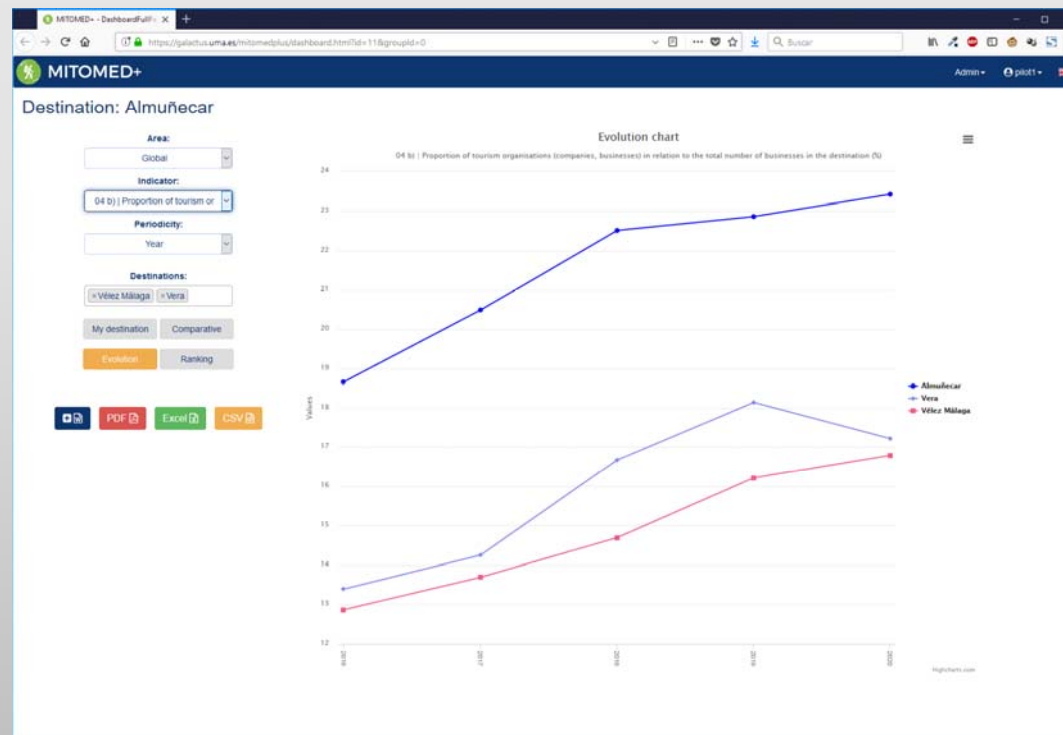
My destination: Compare

Evolution Ranking

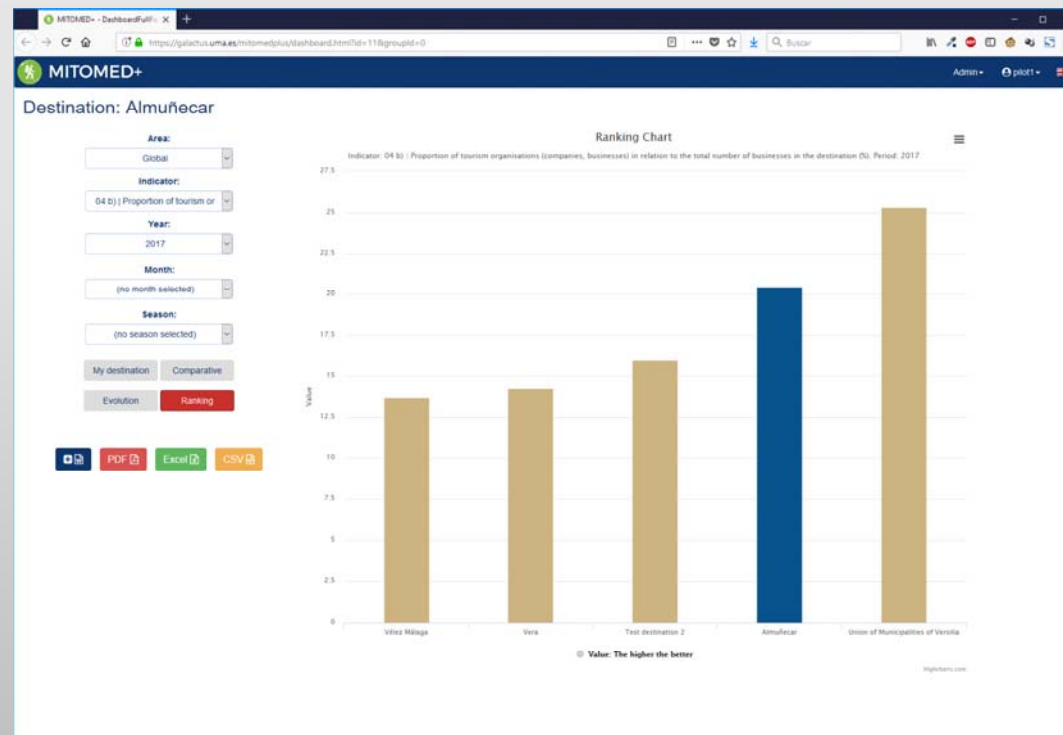
PDF Excel CSV

Indicators	Almuñecar		Vélez Málaga		Vera	
	Value	Alert	Value	Alert	Value	Alert
01 Percentage of destinations with a sustain ...	0.00		0.00		10.10	
02 Percentage of visitors that are satisfie	86.83		91.75		94.15	
03 Percentage of tourism establishments in ...	0.99		0.22		0.16	
04 a) Relative contribution of tourism to the ...	12.84		5.78		11.02	
04 b) Proportion of tourism organisations (com ...	20.49		13.69		14.25	
04 c) Proportion of active population working ...	31.31		14.60		19.79	
05 Average length of stay of tourists (nigh ...	4.47		5.54		4.18	
06 Number of overnight stays per month ...	100.00		100.00		100.00	
07 Occupancy rate in commercial accommodati ...	52.17		50.74		42.89	
08 Direct tourism employment as percentage ...	31.05		13.79		19.79	
09 Daily spending per tourist (accommodatio ...	45.22		41.56		63.01	
10 Total number of cruise passengers per da ...	0.16		0.01		0.15	
11 Number of beds available in commercial v ...	0.42		0.05		0.31	
12 Variation (%) of unemployment tax betwee ...	14.88		7.17		15.85	
13 Number of tourists per resident (1 on 1 ...	0.20		0.02		0.52	
14 Number of secondrental homes per 1 home ...	70.00		36.25		26.89	
15 Percentage of tourist attractions that a ...	38.83		28.38		70.13	
16 a) Number of cultural sites and practices u ...	N/A		N/A		10.53	
16 b) Number of cultural sites and practices a ...	55.56		81.08		10.53	
17 Average wage in tourism for women compar ...	26.02		21.00		18.96	
18 Percentage of destination (area in km2) ...	0.11		0.08		0.38	
19 Percentage of the destination area under ...	1.94		0.08		0.38	
20 Solid urban waste produced by destinatio ...	1.55		1.30		2.41	
21 Volume of solid urban waste recycled (re ...	1.22		1.07		0.83	

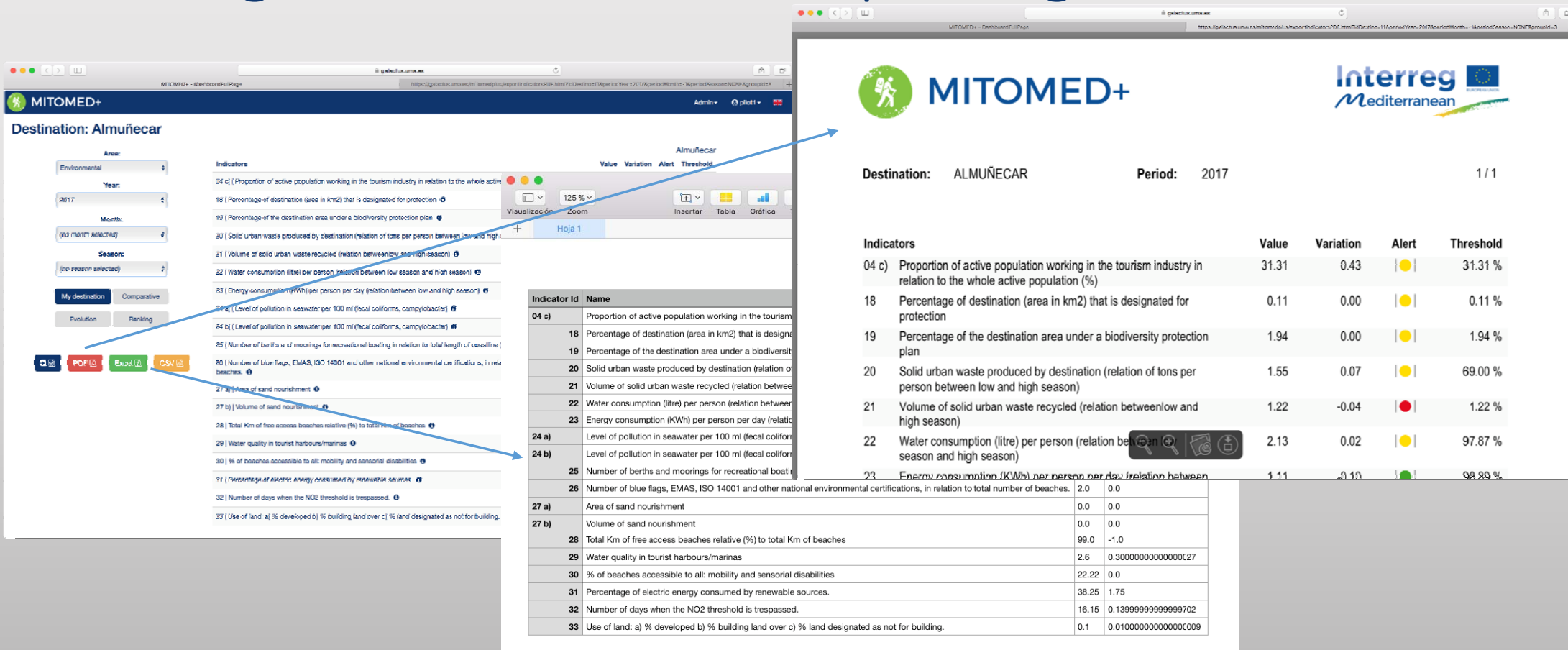
Using the dashboard – Evolution chart



Using the dashboard – Ranking chart



Using the dashboard – Exporting



Destination: Almuñecar

Area: Environmental
Year: 2017
Month: (no month selected)
Season: (no season selected)

My destination Comparative
Evolution Ranking



Indicators

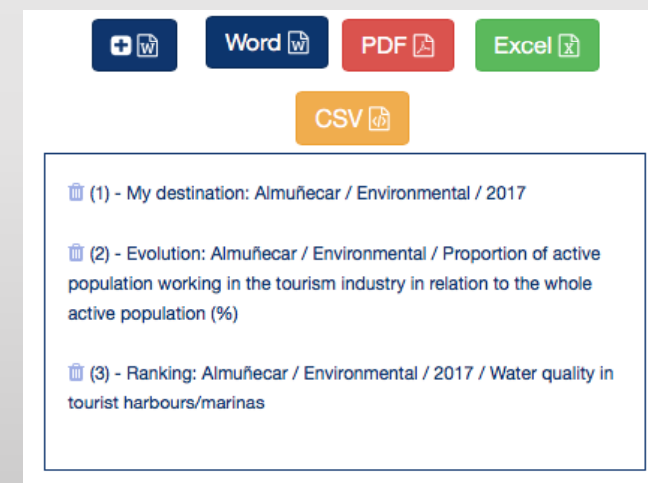
- 04 c) (Proportion of active population working in the tourism industry in relation to the whole active population (%))
- 18 (Percentage of destination (area in km2) that is designated for protection)
- 19 (Percentage of the destination area under a biodiversity protection plan)
- 20 (Solid urban waste produced by destination (relation of tons per person between low and high season))
- 21 (Volume of solid urban waste recycled (relation between low and high season))
- 22 (Water consumption (litre) per person (relation between low season and high season))
- 23 (Energy consumption (KWh) per person per day (relation between low and high season))
- 24 a) (Level of pollution in seawater per 100 ml (fecal coliforms, campylobacter))
- 24 b) (Level of pollution in seawater per 100 ml (fecal coliforms, campylobacter))
- 25 (Number of berths and moorings for recreational boating in relation to total length of coastline)
- 26 (Number of blue flags, EMAS, ISO 14001 and other national environmental certifications, in relation to total number of beaches)
- 27 a) (Area of sand nourishment)
- 27 b) (Volume of sand nourishment)
- 28 (Total Km of free access beaches relative (%) to total Km of beaches)
- 29 (Water quality in tourist harbours/marinas)
- 30 (% of beaches accessible to all: mobility and sensorial disabilities)
- 31 (Percentage of electric energy consumed by renewable sources)
- 32 (Number of days when the NO2 threshold is trespassed)
- 33 (Use of land: a) % developed b) % building land over c) % land designated as not for building)

Value Variation Alert Threshold

Indicator Id	Name	Value	Variation	Alert	Threshold
04 c)	Proportion of active population working in the tourism industry in relation to the whole active population (%)	31.31	0.43	Yellow	31.31 %
18	Percentage of destination (area in km2) that is designated for protection	0.11	0.00	Yellow	0.11 %
19	Percentage of the destination area under a biodiversity protection plan	1.94	0.00	Yellow	1.94 %
20	Solid urban waste produced by destination (relation of tons per person between low and high season)	1.55	0.07	Yellow	69.00 %
21	Volume of solid urban waste recycled (relation between low and high season)	1.22	-0.04	Red	1.22 %
22	Water consumption (litre) per person (relation between low season and high season)	2.13	0.02	Yellow	97.87 %
23	Energy consumption (KWh) per person per day (relation between low and high season)	1.11	-0.10	Green	98.89 %
24 a)	Level of pollution in seawater per 100 ml (fecal coliforms)	0.0	0.0	Green	0.0
24 b)	Level of pollution in seawater per 100 ml (fecal coliforms)	0.0	0.0	Green	0.0
25	Number of berths and moorings for recreational boating	99.0	-1.0	Green	0.0
26	Number of blue flags, EMAS, ISO 14001 and other national environmental certifications, in relation to total number of beaches	2.0	0.0	Green	0.0
27 a)	Area of sand nourishment	0.0	0.0	Green	0.0
27 b)	Volume of sand nourishment	0.0	0.0	Green	0.0
28	Total Km of free access beaches relative (%) to total Km of beaches	99.0	-1.0	Green	0.0
29	Water quality in tourist harbours/marinas	2.6	0.30000000000000027	Green	0.0
30	% of beaches accessible to all: mobility and sensorial disabilities	22.22	0.0	Green	0.0
31	Percentage of electric energy consumed by renewable sources	38.25	1.75	Green	0.0
32	Number of days when the NO2 threshold is trespassed	16.15	0.139999999999999702	Green	0.0
33	Use of land: a) % developed b) % building land over c) % land designated as not for building	0.1	0.010000000000000009	Green	0.0

Using the dashboard – Exporting (shopping cart)

1. Choose the data you wish to export to an editable document (.docx) and click on  to add to the “shopping cart”
2. Repeat step 1 as desired
3. Check the “shopping cart” and delete any unwanted selection
4. Click on  to generate the document



Questions

