



UNIVERSITÀ DEGLI STUDI DI MILANO
Dipartimento di Scienze Agrarie e Ambientali



The “Greenways Heritage” Touristic GIS and Web-App

Giulio Senes, Roberto Rovelli, Gianpaolo Cirone

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WP2 General objective

The objective of the WP is to **promote and enhance the visibility** of a new transnational thematic tourism product (**"Heritage greenways"**) by using **Cultural Creative Industries (CCIs) - related technologies** and by providing comprehensive and practical information to potential tourists and tourism stakeholders.

In particular, the WP2 aims to:

1. **create new information** on territories characterized by the presence of UNESCO sites and greenways;
2. **share and spread the information** to potential tourists and tourism stakeholders using CCIs-related technologies;
3. create a "**brand awareness**" related to "**Heritage greenways**".



Detailed mapping

This activity has provided for **gathering and mapping** (at 1:10.000/1:25.000 scale) all the **information** related to the territories characterized by:

- the presence of a **UNESCO site**,
- and the presence of a **greenway**.

The information collected is related to:

- cultural and historical resources,
- natural resources,
- tourism services.

- Information to be collected has been conceptually divided in **14 entities** or layers.
- Different **buffer zones** have been defined, in order to identify the resources and touristic services to map (on the base of *the literature related to pedestrian and cycle touristic activities*).
- The data have been collected from **official sources**, when possible (e.g.: UNESCO organization, national and regional touristic agencies, etc.).

Detailed mapping



Layers, criteria and sources of the information

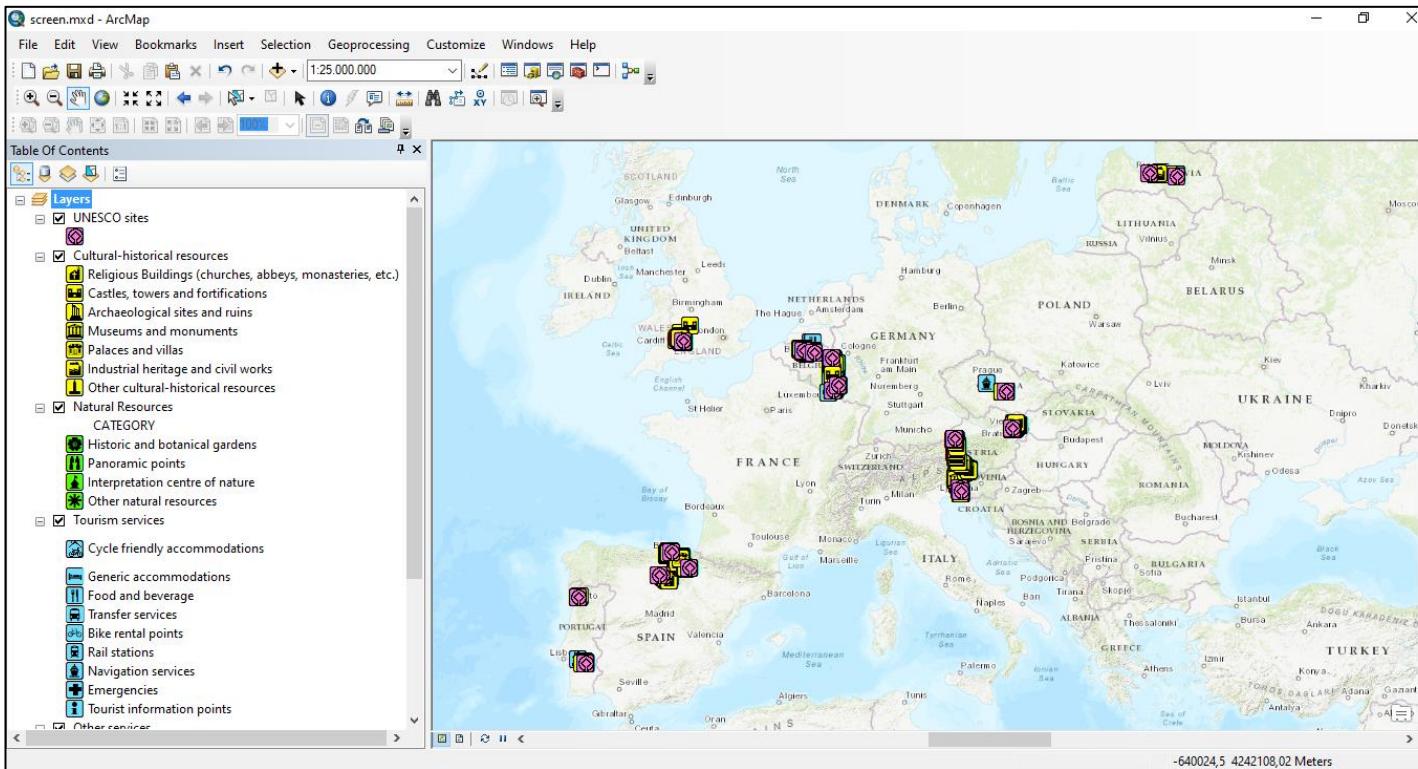
Layer ID	Layer	Geometry type	Source	Criteria for selection
01	UNESCO sites [UNESCO]	Point	UNESCO web site	Max 10 km from a greenway
02	Greenways [GW]	Polyline	Partner knowledge	Max 10 km from a UNESCO sites
03	Cultural-Historical resources [CHR]	Point	Official touristic Information	Max 2,5 km from a greenway
04	Protected Areas [PA]	Polygon	Official list of national protected area	Max 2,5 km from a greenway
05	Natural Resources (NR)	Point	Official touristic Information	Max 2,5 km from a greenway
06	Cycle friendly accommodations (CA)	Point	Official cycle friendly certification; ex. Bed and Bike (DE)	Max 5 km from a greenway
07	Generic Accommodations (GA)	Point	National/regional touristic databases	Max 2,5 km from a greenway
08	Food & Beverage (bar, restaurant, etc.) [F&B]	Point	Partner knowledge	Max 1 km from a greenway
09	Transfer Services [TS]	Point	Partner knowledge	Max 2,5 km from a greenway
10	Bike Rental points [BR]	Point	Official touristic Information; partner knowledge	Max 2,5 km from a greenway
11	Rail Stations [RS]	Point	Railway company	Max 2,5 km from a greenway
12	Public Navigation Services [PNS]	Point	Navigation Company	Max 2,5 km from a greenway
13	Emergencies [EM]	Point	Official Information	Max 2,5 km from a greenway
14	Touristic Information points [TI]	Point	Official touristic Information	Max 1 km from a greenway

Creation of the touristic GIS

The information collected and mapped was organized in a **GIS database**.

The GIS (*Geographical information System*) **is a tool** for acquiring, organizing, processing and returning data regarding a territory.

The database has been created using *ESRI ArcGIS software*.



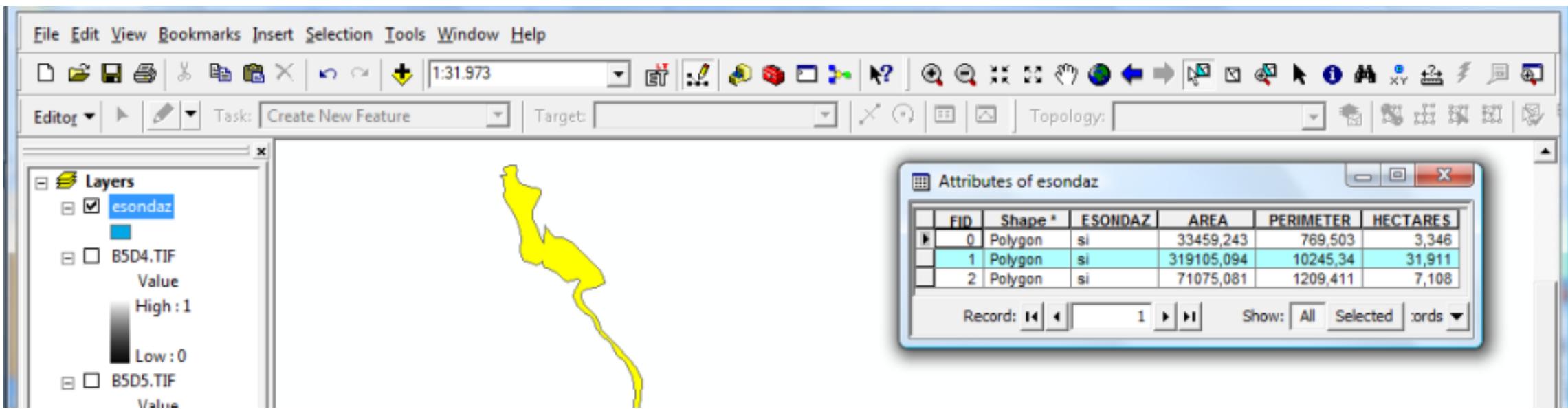


Creation of the touristic GIS

The information collected and mapped was organized in a **GIS database**.

The “Greenways Heritage Touristic GIS” has a **Vector Structure**, in which the data are structured in two components:

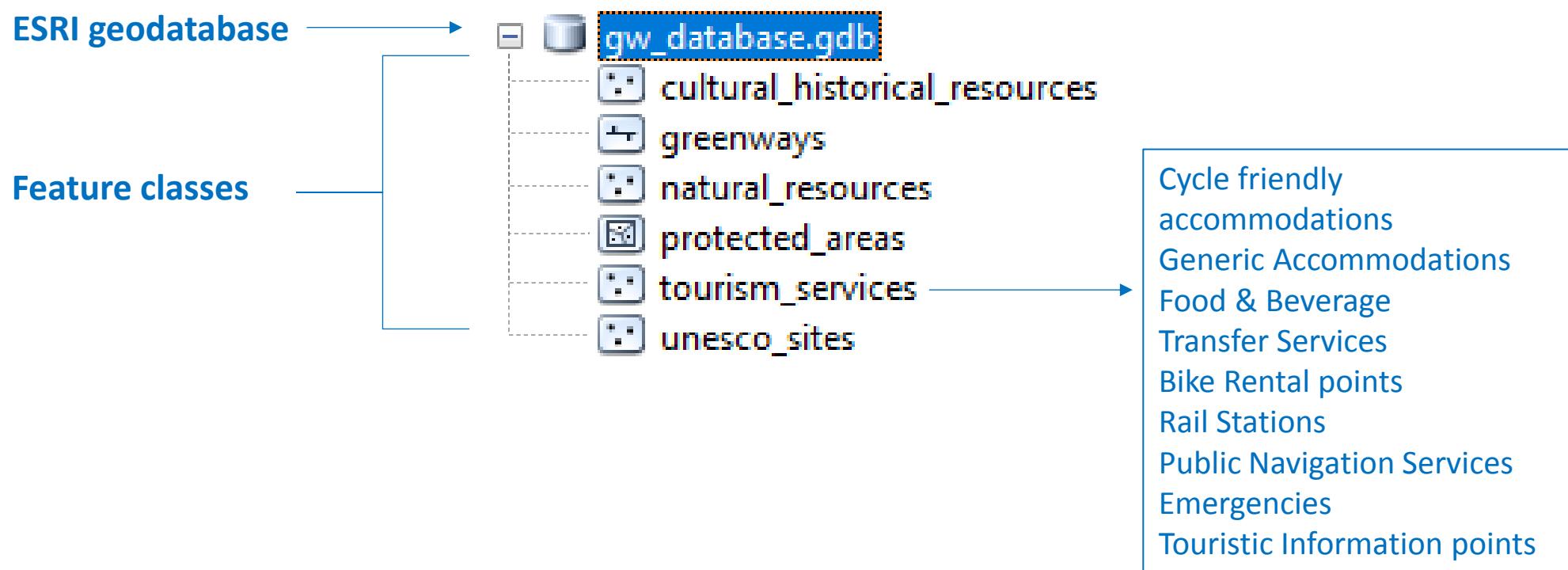
- the **graphic component**, points, polylines and polygons (depending on the types of data);
- the **descriptive component**, represented by an alpha-numeric database for each layer.



Creation of the touristic GIS

The information collected and mapped in activity 1 was organized in a GIS database.

Data related to **UNESCO sites, greenways, cultural resources, natural resources and tourism services** (conceptually divided in **14 entities or layers**) was stored in 6 feature classes in a **ESRI geodatabase file**.





Creation of the touristic GIS

In order to make the maps easy to read, **specific symbols** have been defined for each layer.

01 - UNESCO sites		04 - Protected areas		06 - Tourism services
02 - Greenways		05 - Natural Resources		<i>Cycle friendly accommodations</i>
03 - Cultural - historical resources				<i>Generic accommodations</i>
<i>Religious Buildings (churches, abbeys, monasteries, etc.)</i>		<i>Historic and botanical gardens</i>		<i>Food and beverage</i>
<i>Castles, towers and fortifications</i>		<i>Panoramic points</i>		<i>Transfer services</i>
<i>Archaeological sites and ruins</i>		<i>Interpretation centre of nature</i>		<i>Bike rental points</i>
<i>Museums and monuments</i>		<i>Other natural resources</i>		<i>Rail stations</i>
<i>Palaces and villas</i>				<i>Navigation services</i>
<i>Industrial heritage and civil works</i>				<i>Emergencies</i>
<i>Other cultural-historical resources</i>				<i>Tourist information points</i>
				<i>Other accommodations</i>
				<i>Other food and beverage</i>

Creation of the touristic GIS



GIS_GW_nuovo.mxd - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:6.000

ArcGIS World Geocoding <Type an address...>

Table Of Contents

Layers

- C:\Users\Borsisti\Desktop\GW Heritage\UNESCO sites
- Cultural-historical resources
 - Religious Buildings (churches, abb
 - Castles, towers and fortifications
 - Archaeological sites and ruins
 - Museums and monuments
 - Palaces and villas
 - Industrial heritage and civil works
 - Other cultural-historical resources
- Natural Resources
 - CATEGORY
 - Historic and botanical gardens
 - Panoramic points
 - Interpretation centre of nature
 - Other natural resources
- Tourism services
 - Cycle friendly accommodations
 - Generic accommodations
 - Food and beverage
 - Transfer services
 - Bike rental points
 - Rail stations
 - Navigation services
 - Emergencies
 - Tourist information points
 - Other accommodations
 - Other food and beverage
- greenways
- Protected areas
- World Boundaries and Places
- World Imagery

Opere di difesa veneziane tra XVI e XVII secolo: Stato da Terra-Stato da Mar occidentale: la città-fortezza di Pal...

Opere di difesa veneziane tra XVI e XVII secolo: Stato da Terra-Stato da Mar occidentale: la città-fortezza di Palmanova

UNESCO_ID	01_IT_02
NAME_OL	Opere di difesa veneziane tra XVI e XVII secolo: Stato da Terra-Stato da Mar occidentale: la città-fortezza di Palmanova
NAME_EL	Venetian Works of Defence between the 16th and 17th Centuries: Stato da Terra – Western Stato da Mar:the Fortress Town of Palmanova
COUNTRY	Italy
REGION	Friuli Venezia Giulia
MUNICIPALI	Palmanova
POST_CODE	33057
ADDRESS	
WEB	https://whc.unesco.org/en/list/1533

DESCRIPTION

Palmanova, with its nine-pointed star structure, was conceived as an inexpugnable defensive system; it features three defence lines, the first two erected in Venetian times, the third one under Napoleon. The city maintains to this day the fortifications devised in the course of centuries as the science of fortifications progressively developed innovative systems to deal with new requirements arising from the evolution of armaments.

Co-funded by the COSME programme of the European Union

1481747,134 5764565,048 Meters

UNESCO site
"Palmanova the
Fortress City" (Italy)



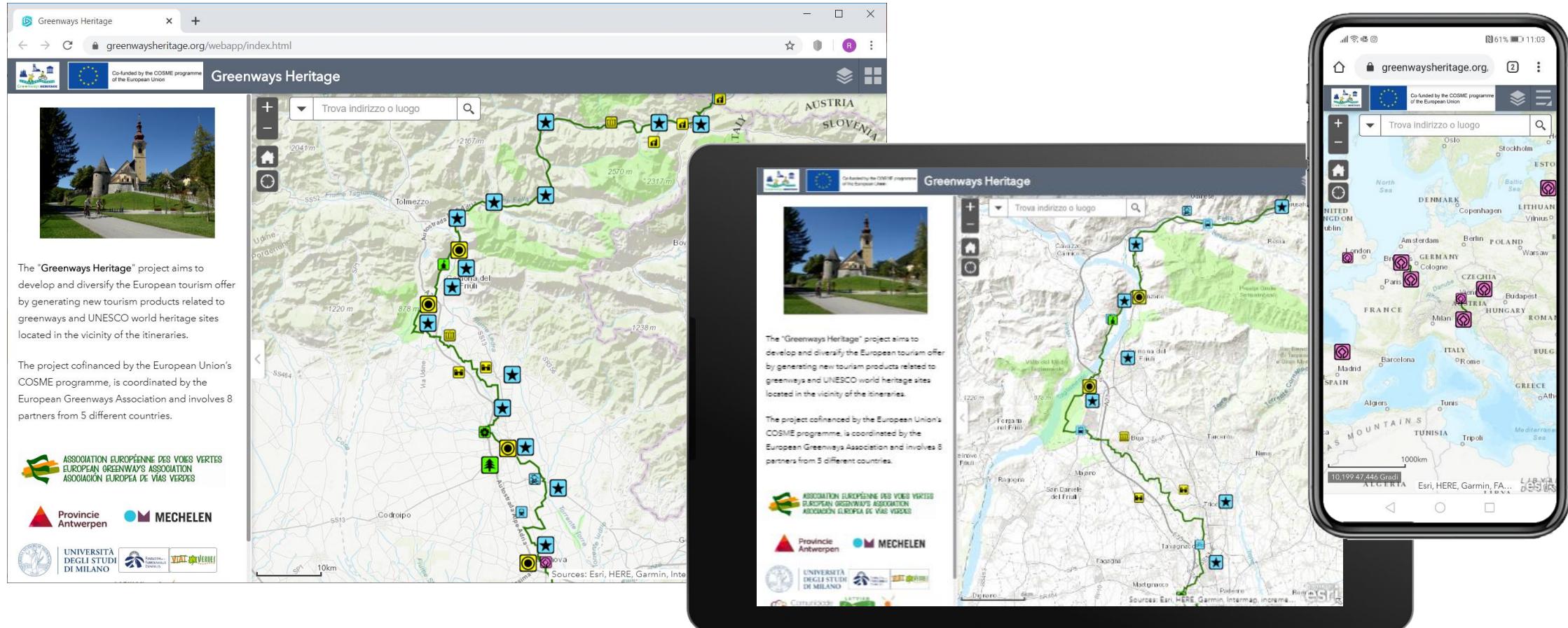
Creation of the touristic GIS

Resources and services mapped

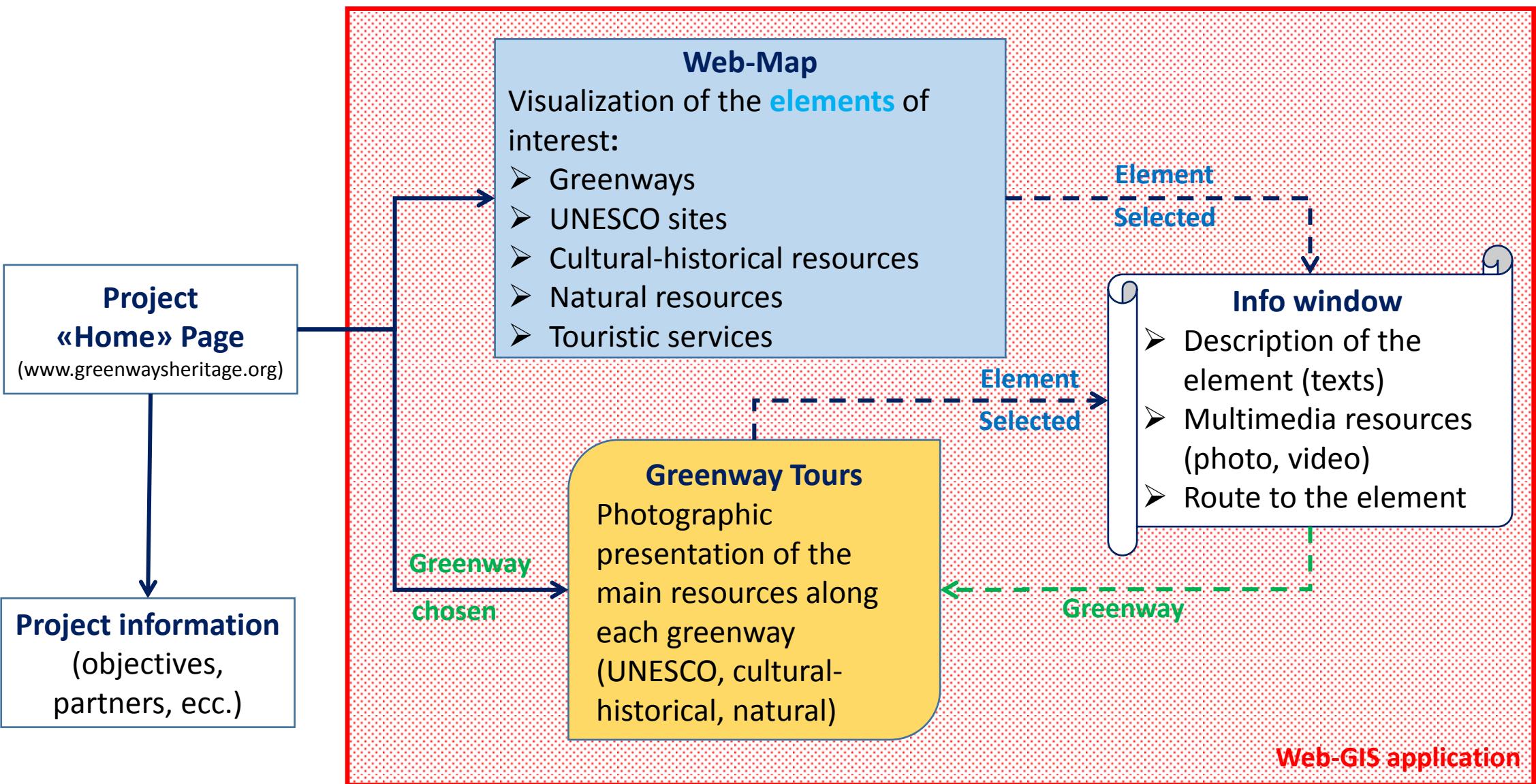
- ✓ **22** UNESCO sites;
- ✓ **15** greenways connected to the UNESCO sites in **10** countries (**1.132 km**):
 - Vía Verde de la Sierra de la Demanda (**Spain**): 54 Km;
 - Vía Verde de los Montes de Hierro (**Spain**): 43 km;
 - Vía Verde del Ferrocarril Vasco Navarro (**Spain**): 127 Km.
 - Vennbahn (**Germany, Belgium, Luxembourg**): 125 Km;
 - Piste Cyclable d'Echternach (**Luxembourg**): 43 km
 - Alpe Adria (**Italy, Austria**): 410 Km;
 - Dampfross und Drahtesel (**Austria**): 50 km
 - Beghina (**Belgium**): 40 Km;
 - Mechelen – Diest (**Belgium**) : 76 km;
 - Rīga - Ērgļi (**Latvia**): 79 Km;
 - Two Tunnels Greenway (**UK**): 20 km;
 - Bristol Bath Railway Path (**UK**): 21 km;
 - Ecopista de Guimarães (**Portugal**): 14 km;
 - Ecopista do Ramal de Mora (**Portugal**): 20 km;
 - Přibyslav – Sázava Greenway (**Czech Republic**): 10 km;
- ✓ **409** cultural-historical resources;
- ✓ **106** natural resources;
- ✓ **151** cycle friendly accommodations and + **712** generic accommodations;
- ✓ **2816** Food & Beverage;
- ✓ **57** bike rental points and **31** transfer services;
- ✓ **69** rail stations and **16** public navigation services;
- ✓ **19** emergencies;
- ✓ **41** touristic information points.

Web-GIS application

The GIS database has been **shared with tourists and stakeholders through a Web-GIS application** with multilanguage interface, that run on **different device** and **Operation System**.



Web-GIS application



Web-map: navigation

Possibility to **browse interactively** the map.
Changing the level of detail (zoom) different elements are shown.



The "Greenways Heritage" project aims to develop and diversify the European tourism offer by generating new tourism products related to greenways and UNESCO world heritage sites located in the vicinity of the itineraries.

The project cofinanced by the European Union's COSME programme, is coordinated by the European Greenways Association and involves 8 partners from 5 different countries.

**ASSOCIATION EUROPÉENNE DES VOIES VERTES
EUROPEAN GREENWAYS ASSOCIATION
ASOCIACIÓN EUROPEA DE VÍAS VERDES**

Provincie Antwerpen **MECHELEN**

UNIVERSITÀ DEGLI STUDI DI MILANO **Federación Forestal de España** **VIA VERDE**

North Sea

UNESCO sites

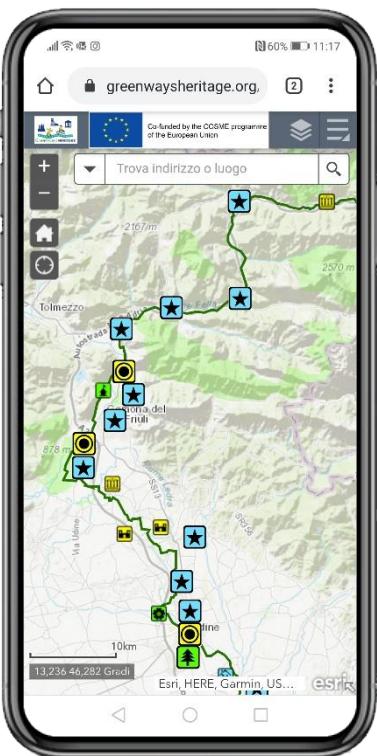
Greenways

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBC...

A screenshot of the Greenways Heritage web-map. The map shows Europe with various greenway routes highlighted in green and UNESCO World Heritage sites marked with purple icons. Two specific features are highlighted with red arrows: one pointing to a purple icon labeled "UNESCO sites" in red text, and another pointing to a green line labeled "Greenways" in red text. The map includes labels for countries like United Kingdom, Ireland, France, Germany, Italy, Spain, Portugal, and Poland, along with major cities and bodies of water. A search bar at the top right says "Trova indirizzo o luogo" and "North Sea". A legend in the top left corner shows icons for greenways, UNESCO sites, and other project elements. The bottom right corner credits the sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBC... and is powered by esri.

Web-map: navigation

Possibility to **browse interactively** the map.
Changing the level of detail (zoom) different elements are shown.



A screenshot of the Greenways Heritage web-map on a desktop browser. The map shows a greenway route winding through the Alpine mountains of Italy and Slovenia. The route is highlighted in green with blue star icons. Three types of resources are identified with red arrows and labels: 'Cultural-historical resources' (marked with yellow squares), 'Natural resources' (marked with green squares), and 'Tourism services' (marked with blue squares). The map includes elevation profiles, road networks, and place names like Tolmezzo, Gorizia, and Trieste. A sidebar on the left provides project information and partner logos.

Web-map: navigation

Possibility to **browse interactively** the map.
Changing the level of detail (zoom) different elements are shown.



The "Greenways Heritage" project aims to develop and diversify the European tourism offer by generating new tourism products related to greenways and UNESCO world heritage sites located in the vicinity of the itineraries.

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UNIVERSITÀ DEGLI STUDI DI MILANO VIAT VERDE

Fondazione Foresto&Sons S.p.A.

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBC...
POWERED BY esri

Web-map: navigation

When the symbols are closed, to avoid overlapping, multiple elements are **clustered** together.



The screenshot shows the desktop version of the Greenways Heritage web map. At the top, there's a header with the project logo, a European Union flag, and text indicating it's co-financed by the COSME programme of the European Union. Below the header is a search bar labeled "Trova indirizzo o luogo". The main content area is a map of a greenway route in the Friuli-Venezia Giulia region of Italy. The map includes place names like Tagliamento, Bujia, Trices, Martignacco, and Pordenone. Several location markers are placed along the route. Red arrows point from the text "Single elements" to individual markers that are not clustered, and another red arrow points from the text "Clusters" to a group of markers that are clustered together. The map also features a legend at the bottom left and a copyright notice at the bottom right.

Greenways Heritage

Co-financed by the COSME programme of the European Union

Trova indirizzo o luogo

Greenways Heritage

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Federazione FIDGEOLOGIA ITALIANA

VIALE VERDE

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBC...

Web-map: legend and layer list

Possibility to view the **legend** and to **manage** the visualization of different types of elements (layers).



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Legend

Legend

Livelli	Icon	Description
<input checked="" type="checkbox"/>	UNESCO sites	
<input checked="" type="checkbox"/>	Cultural-historical resources	
<input checked="" type="checkbox"/>	Religious Buildings (churches, abbeys, monasteries, etc.)	
<input checked="" type="checkbox"/>	Castles, towers and fortifications	
<input checked="" type="checkbox"/>	Archaeological sites and ruins	
<input checked="" type="checkbox"/>	Museums and monuments	
<input checked="" type="checkbox"/>	Palaces and villas	
<input checked="" type="checkbox"/>	Industrial heritage and civil works	
<input checked="" type="checkbox"/>	Natural resources	
<input checked="" type="checkbox"/>	Historic and botanical gardens	
<input checked="" type="checkbox"/>	Panoramic points	
<input checked="" type="checkbox"/>	Interpretation centre of nature	
<input checked="" type="checkbox"/>	Other natural resources	
<input checked="" type="checkbox"/>	Tourism services	
<input checked="" type="checkbox"/>	Cycle friendly accommodations	
<input checked="" type="checkbox"/>	Generic accommodations	
<input checked="" type="checkbox"/>	Food and beverage	
<input checked="" type="checkbox"/>	Transfer services	
<input checked="" type="checkbox"/>	Bike rental points	
<input checked="" type="checkbox"/>	Rail stations	
<input checked="" type="checkbox"/>	Navigation services	
<input checked="" type="checkbox"/>	Emergencies	
<input checked="" type="checkbox"/>	Tourist information points	
<input checked="" type="checkbox"/>	Other services	
<input checked="" type="checkbox"/>	Other accommodations	

Web-map: legend and layer list

Possibility to view the **legend** and to **manage** the **visualization** of different types of elements (layers).



Greenways Heritage

The "Greenways Heritage" project aims to develop and diversify the European tourism offer by generating new tourism products related to greenways and UNESCO world heritage sites located in the vicinity of the itineraries.

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Legend

Livelli

- UNESCO sites
- Cultural-historical resources
- Religious Buildings (churches, abbeys, monasteries, etc.)
- Castles, towers and fortifications
- Archaeological sites and ruins
- Museums and monuments
- Palaces and villas
- Industrial heritage and civil works
- Natural resources
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- Generic accommodations
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- Rail stations
- Navigation services
- Emergencies
- Tourist information points
- Other services
- Other accommodations

Show/hide elements

Web-map: basemaps

Possibility to **change**
the basemap
(topographic, aerial,
OSM, streets)



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Galleria mappe di base

OpenStreetMap Imagery with Labels Topographic Streets

Basemaps

A screenshot of the Greenways Heritage web map interface on a desktop browser. The map shows a greenway route through Palmanova, Italy, with various street names visible. A legend on the right side, titled "Galleria mappe di base", contains four options: "OpenStreetMap", "Imagery with Labels", "Topographic", and "Streets". The "Topographic" option is highlighted with a red box and an arrow pointing to it from the text "Basemaps" at the bottom right. The browser's address bar shows the URL "greenwayheritage.org/webapp/index.html".

Web-map: basemaps

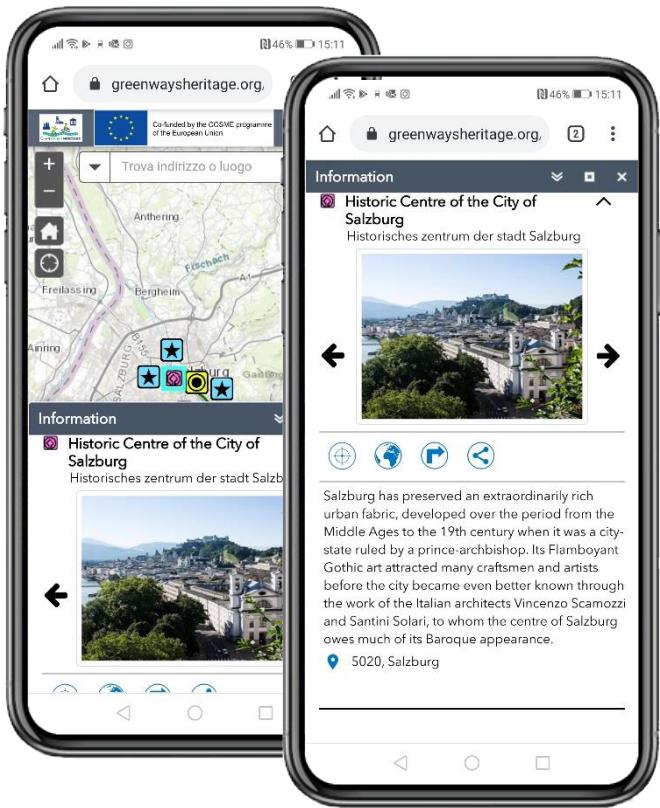
Possibility to **change**
the basemap
(topographic, aerial,
OSM, streets)



A screenshot of a desktop browser window showing the Greenways Heritage web-map. The main area displays a satellite map of a town with greenway routes highlighted in green. A search bar at the top says 'Trova indirizzo o luogo'. To the right, there is a sidebar titled 'Galleria mappe di base' which contains four thumbnails: 'OpenStreetMap', 'Imagery with Labels', 'Topographic', and 'Streets'. A red box highlights this sidebar, and a red arrow points from the text 'Basemaps' to it. At the bottom right of the map area, the text 'Source: Esri, DigitalGlobe' is visible.

Web-map: info window

Possibility to **view** information about each element (name, photos, description).



Greenways Heritage

Historic Centre of the City of Salzburg

Historisches zentrum der stadt Salzburg

Trova indirizzo o luogo

Name

Photos

Selected element

Short description

Address

5020, Salzburg

POWERED BY esri, HERE, Garmin, USGS, NGA

Web-map: info window

Possibility to **view**
information about
each element (name,
photos, description).



Name

Photos

Main data

Description

Selected greenway

Greenways Heritage

Vía Verde del Ferrocarril Vasco Navarro

Vía Verde del Ferrocarril Vasco Navarro

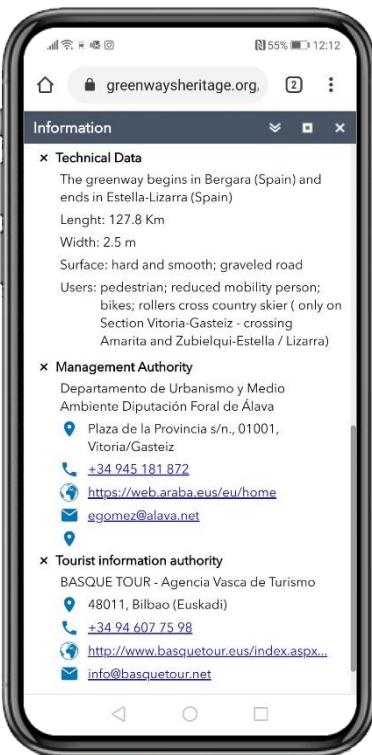
127.8 Km from Bergara to Estella-Lizarra (hard and smooth; graveled road)

The Vasco-Navarro Railway Greenway revisits the railway which used to run between Bergara and Estella, passing through Vitoria/Gasteiz. We have inherited from this railway (affectionately known as 'El Trenico' (The Little Train) a route full of surprises, which passes through the rural districts of Llanada Alavesa, Montaña Alavesa, and Tierra Estella in the province of Álava and Navarra. Along the route we will pass by cereal fields and mountains, rivers and gorges, leafy woods, and charming towns and villages. The route is sprinkled with stations, viaducts and tunnels forming part of a fascinating piece of railway heritage.

Powered by esri

Web-map: info window

Possibility to **view**
information about
each element (name,
photos, description).



The screenshot shows a web-based map interface for the Greenways Heritage project. The map displays a network of roads and greenways across a rural and urban landscape. A specific greenway route is highlighted in teal, starting from the top left and winding through the terrain. Several locations are marked with blue squares containing icons, and some are labeled with names like "Arrazua", "Parque Gamar", "Vitoria", and "Aretxabaleta".

Annotations on the right side of the map point to specific features:

- Technical data:** Points to the "Technical Data" section of the sidebar.
- Selected greenway:** Points to the teal-colored greenway line on the map.
- Management authority:** Points to the "Management Authority" section of the sidebar.
- Tourist information:** Points to the "Tourist information authority" section of the sidebar.

The sidebar on the left provides detailed information for the selected greenway:

- Technical Data:**
 - The greenway begins in Bergara (Spain) and ends in Estella-Lizarra (Spain)
 - Length: 127.8 Km
 - Width: 2.5 m
 - Surface: hard and smooth; graveled road
 - Users: pedestrian; reduced mobility person; bikes; rollers cross country skier (only on Section Vitoria-Gasteiz - crossing Amarita and Zubielqui-Estella / Lizarra)
- Management Authority:**
 - Departamento de Urbanismo y Medio Ambiente Diputación Foral de Álava
 - Plaza de la Provincia s/n., 01001, Vitoria/Gasteiz
 - +34 945 181 872
 - <https://web.araba.eus/eu/home>
 - egomez@alava.net
- Tourist information authority:**
 - BASQUE TOUR - Agencia Vasca de Turismo
 - 48011, Bilbao (Euskadi)
 - +34 94 607 75 98
 - <http://www.basquetour.eus/index.aspx..>
 - info@basquetour.net

Web-map: info window

Possibility to **view** information about each element (name, photos, description).

A screenshot of a desktop web browser window titled "Greenways Heritage". The URL is "greenwayheritage.org/webapp/index.html". The browser interface includes standard controls like back, forward, and search. The main content area displays a map of a city with numerous yellow location markers. One marker is highlighted with a blue square, indicating the selected element. To the left of the map, an "Information" panel is open for the selected location, "La Casa de Santa María". The panel contains the following information:

- Name: La Casa de Santa María
- Type: Apartment
- Address: Santa María 5, 01001, Vitoria
- Phone: +34945 15 12 59
- Website: <http://www.lacasadesantamaria.com/>

Red arrows point from the text labels "Name", "Address", "Contacts", and "Selected element" to their corresponding parts in the browser window.

Web-map: info window

Possibility to **interact** with the selected elements.



Zoom to

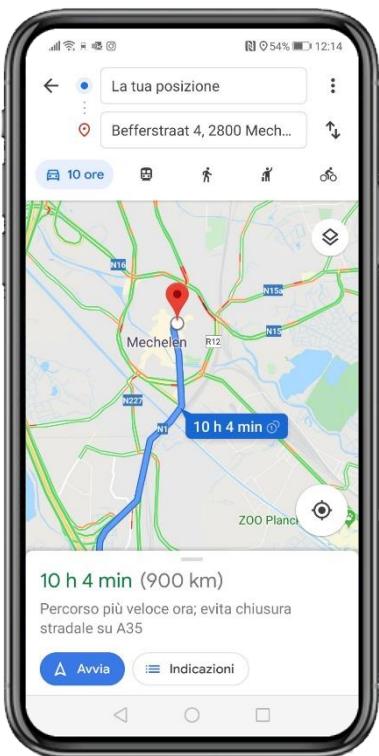
Open the
website

View the
360° VR tour

A screenshot of a desktop web browser window titled 'Greenways Heritage'. The browser address bar shows the URL 'greenwayheritage.org/webapp/index.html'. The main content area displays a map of Mechelen, Belgium, with various streets labeled in Dutch. A specific location is highlighted with a pink polygon and a purple marker. An info window is open at this location, providing details about the 'Belfries of Belgium and France: Old Cloth Hall with Belfry' (Belforten van België en Frankrijk: Oude hallen en Belfort). It includes a thumbnail image, a title, a detailed description, and copyright information. Below the description are five interactive icons: a magnifying glass, a house, a 360° icon, a right arrow, and a share icon. Red arrows from the text above point to these icons. To the right of the info window, a larger map view shows the surrounding area with green lines indicating walking routes. The bottom right corner of the map includes credits for 'IGN, Kadaster, Esri, HERE, Garmin, INCREMENT P, USGS' and 'POWERED BY esri'.

Web-map: info window

Possibility to **interact** with the selected elements.



Web-map: info window

Possibility to **interact** with the selected elements.



A desktop browser window showing the Greenways Heritage website. The top navigation bar includes the Greenways Heritage logo, a search bar, and a map button. The main content area features an info window for the "Belfries of Belgium and France: Old Cloth Hall with Belfry". The info window contains a thumbnail image, the title, a subtitle in Dutch, and a detailed text block about the building's history. Below the text is a map pin and address information. To the right of the info window is a detailed street map of Mechelen, Belgium, with various buildings and streets labeled in Dutch. A red box highlights the social media sharing icons at the bottom of the info window, and a red arrow points from the text "Share on social media or email" to this box. The bottom right corner of the map displays the text "POWERED BY esri".

Web-map: info window

Possibility to **interact** with the selected elements.



Greenway Video Tour

The 54 km of the Sierra de la Demanda Greenway allow to know in a privileged way a territory classified as a Site of Community Interest and a Special Protection Area for Birds (Lic and ZEPA, respectively). The territory crossed by this greenway not only constitutes a space of special natural importance, but also historical-cultural one. The small towns through which this sustainable itinerary passes treasure a rich material and immaterial heritage and thanks to the proximity to the capital of Burgos, the cultural experience is raised a thousand by making a mandatory visit to the archaeological site of Atapuerca.

Greenways Heritage

Vía Verde de la Sierra de la Demanda

Trova indirizzo o luogo

Map showing the Vía Verde de la Sierra de la Demanda greenway route in green, starting from Burgos (Arlanzón) and ending at Monterrubio de la Demanda. The map includes labels for towns like Quintanilla Vivar, Arlanzón, Villasur de la Sierra, and Barbadillo de Herreros, along with elevation profiles and a scale bar.

Web-map: multiple selection

Possibility to display a **list of elements** in the case of selections of overlapping symbols or clusters.



A desktop browser window showing the Greenways Heritage web-map. The map displays a green route line through a hilly terrain with various geographical features and place names. Several route markers are highlighted with yellow squares, indicating multiple selections. A red arrow points from the text "First selected element" to one of these highlighted markers on the map. Another red arrow points from the text "Other selected element" to another highlighted marker. To the left of the map, a detailed information panel is visible for a selected element, showing a thumbnail image, a title ("Romanesque church of San Miguel"), a description, and a map location marker. The browser's address bar shows the URL "greenwayheritage.org/webapp/index.html".

Web-map: geolocation

Possibility to **geolocate**
the map on the user
position and to trace it.



A screenshot of a desktop web browser window titled "Greenways Heritage". The URL is "greenwayheritage.org/webapp/index.html". The page features a banner for the "Greenways HERITAGE" project, which is co-financed by the COSME programme of the European Union. Below the banner is a photograph of a church with a tall yellow bell tower. A text block explains the project's aim to develop and diversify European tourism offers through greenways and UNESCO world heritage sites. Logos for the European Greenways Association and the "ASSOCIATION EUROPÉENNE DES VOIES VERTES / EUROPEAN GREENWAYS ASSOCIATION / ASOCIACIÓN EUROPEA DE VIAS VERDES" are shown. The main content is a map of Aquileia, Italy, with a green line tracing a path through the town. A blue circular marker on the map is labeled "User position" with a red arrow pointing to it. The map includes street names like Via Roma, Via San Felice, and Via delle Vigne Vecchie, along with various greenway symbols and icons. A scale bar indicates 0.3km.

Web-map: search function

Possibility to **search for places, greenways and resources.**



A desktop browser window showing the Greenways Heritage web-map. The map displays a greenway route through the Alpine region, with various icons representing different types of sites. A search bar at the top shows the word "aquileia". A callout box highlights the search results, which include "UNESCO sites" and "World Search" entries for Aquileia. Red arrows point from the text labels to the corresponding sections of the callout box.

Search text

Search results for elements

Search results for places

The "Greenways Heritage" project aims to develop and diversify the European tourism offer by generating new tourism products related to greenways and UNESCO world heritage sites located in the vicinity of the itineraries.

The project cofinanced by the European Union's COSME programme, is coordinated by the European Greenways Association and involves 8 partners from 5 different countries.

ASSOCIATION EUROPÉENNE DES VOIES VERTES
EUROPEAN GREENWAYS ASSOCIATION
ASOCIACIÓN EUROPEA DE VÍAS VERDES

Provincie Antwerpen MECHELEN

UNIVERSITÀ DEGLI STUDI DI MILANO Fondazione Formazione Sviluppo VIAL VERDE

Powered by esri, HERE, Garmin, FAO, USGS, NGA

Web-map: search function

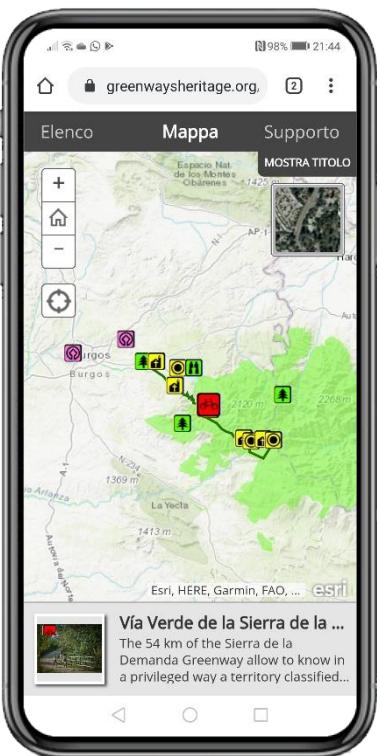
Possibility to **search for locations or elements** (greenways and resources) on the map.



A screenshot of a desktop browser window titled "Greenways Heritage". The URL is "greenwayheritage.org/webapp/index.html". The page displays a map of the area around Aquileia, Italy, with a green line indicating a greenway route. A search result for "Archaeological Area and the Patriarchal Basilica of Aquileia" is shown in a callout box on the left side of the map. The result includes a thumbnail image of the basilica, its name in English and Italian, and a brief description: "Aquileia, one of the largest and wealthiest cities of the Early Roman Empire, was destroyed by Attila in the mid-5th century. Its dominant feature is the Basilica, erected in the early-Christian period. The imposing mosaic floor dates back to the Theodosian church built at the beginning of the IV century and rebuilt between the 11th and 14th century according to the Romanesque and Gothic style. The most striking remains of the Roman city are those of the port installations, along the bank of the river, substantial traces of". A red arrow points to a blue square marker on the map, which corresponds to the location of the basilica. The map also shows other geographical features like roads, rivers, and localities.

Greenway Tours: navigation

Possibility to **browse** interactively the map. Increasing the level of detail (zoom) more elements are shown.



Vía Verde de la Sierra de la Demanda

Co-funded by the COSME programme of the European Union

Greenways HERITAGE

Single resources

Historic centers

The 54 km of the Sierra de la Demanda Greenway allow to know in a privileged way a territory classified as a Site of Community Interest and a Special Protection Area for Birds (Lic and ZEPA, respectively). The territory crossed by this greenway not only constitutes a space of special natural importance, but also historical-cultural one. The small towns through which this sustainable itinerary passes treasure a rich material and immaterial heritage and thanks to

Vive la Vía - La Vía Verde de la Si...

Urrez

Guarda più tardi Condividi

Vía Verde de la Sierra de la Demanda

1 Vía Verde de la Sierra de la ...
The 54 km of the Sierra de la Demanda Greenway allow to know in a privileged way a territory classified...

2 Burgos Cathedral

3 Archaeological Site of Atapuerca

4 Riverside of the Rio Arlanza and tributaries

5 Arlanzón River

6 Romanesque church of San Miguel

7 Villasur de Herreros

8 Reservoir of

Greenway Tours: navigation

Possibility to **browse interactively** the map. Increasing the level of detail (zoom) more elements are shown.



A screenshot of a web browser window titled 'Vía Verde de la Sierra de la Demanda'. The browser address bar shows the URL greenwayheritage.org/storymap/index.php?webmap=0b23f4c785f941ec99d4156501540bee. The page features a map of a town with a greenway route. Two red arrows point from text labels to specific locations on the map. One arrow points to a cluster of icons labeled 'Tourism services', and another points to a single icon labeled 'Single resources of historic centers'. Below the map, there is a row of eight thumbnail images numbered 1 to 8, each representing a different tourism or historical resource. To the right of the map, there is a sidebar with a video player showing a scene from the greenway, a title 'Vía Verde de la Sierra de la Demand...', and a detailed description of the greenway's purpose and significance. The sidebar also includes social sharing buttons for 'Guarda più tardi' and 'Condividi'.

Greenway Tours: resources

Possibility to **explore**
the resources along
the greenway and view
the information.



Vía Verde de la Sierra de la Demanda

greenwayheritage.org/storymap/index.php?webmap=0b23f4c785f941ec99d4156501540bee

Co-funded by the COSME programme of the European Union

Greenway HERITAGE

Vía Verde de la Sierra de la Demand

A map of the town of Villasur de Herreros. The map shows the town's layout with streets labeled 'Calle Baja', 'Calle Centro', 'Calle Burgos', and 'Calle San Roque'. A yellow icon representing the San Roque Hermitage is located near the intersection of Calle Baja and Calle Centro. A red arrow points from the text 'Resource selection' to this icon.

Resource selection

San Roque Hermitage

Built at the request of the Mayor of Villasur de Herreros, the utility that is intended to give the San Roque Hermitage, as well as worship area, is to provide ethnographic material of the place and a model of the layout of the old mining railroad of the Sierra de la Demand, turning the building into an Ethnographic Museum of Villasur de Herreros.

1 Vía Verde de la Sierra de la Demanda
2 Burgos Cathedral
3 Archaeological Site of Atapuerca
4 San Roque Hermitage
5 Hermitage of Santo Cristo
6 Hydraulic flour mill
7 Parish Church of Visitation of Our Lady to Saint
8 Church of San Protom...

Greenway Tours: resources

Possibility to **explore the resources** along the greenway and view the information.



A screenshot of a web-based storymap titled 'Vía Verde de la Sierra de la Demanda'. The map shows the town of Villasur de Herreros with various points of interest marked. A callout box highlights the 'San Roque Hermitage' with the following details:

- Name:** San Roque Hermitage
- Description:** Built at the request of the Mayor of Villasur de Herreros, the utility that is intended to give the San Roque Hermitage, as well as worship area, is to provide ethnographic material of the place and a model of the layout of the old mining railroad of the Sierra de la Demanda, turning the building into an Ethnographic Museum of Villasur de Herreros.
- Photo:** An image of the stone arch of the hermitage.
- Get direction:** A button to get directions to the site.

The storymap also features a navigation bar at the bottom with icons for different locations: 1. Vía Verde de la Sierra de la Demanda, 2. Burgos Cathedral, 3. Archaeological Site of Atapuerca, 4. San Roque Hermitage, 5. Hermitage of Santo Cristo, 6. Hydraulic flour mill, 7. Parish Church of Visitation of Our Lady to Saint, and 8. Church of San Protom.

Greenway Tours: other elements

Possibility to **show the name** of tourism services and **get directions** to reach them.



The screenshot shows a web-based storymap for the 'Vía Verde de la Sierra de la Demanda'. At the top, it displays the URL 'greenwayheritage.org/storymap/index.php?webmap=0b23f4c785f941ec99d4156501540bee'. The main content area features a map of a town with several streets labeled in Spanish. A specific location is highlighted with a green box containing the text 'Restaurante Arlanzón'. A red arrow points from this text to a green line on the map, which indicates the route to the restaurant. To the right of the map, there is a large photograph of a lake surrounded by dense green forests under a clear blue sky. Below the photograph, there is descriptive text about the Arlanzón River and a series of numbered thumbnail images at the bottom.

Vía Verde de la Sierra de la Demanda

Restaurante Arlanzón

Name and get directions link

Arlanzón River

With a length of 115 km, the Arlanzón River rises in the Sierra de la Demanda. According to the Second National Forest Inventory (ICONA, 1994), the Arlanzón river basin is composed mainly of forest land (53.3%) and crops (43.8%). Between the localities that it crosses can be mentioned Pineda of the Mountain range, Villasur de Herreros, Arlanzón.

Hydraulic flour mill
Since a short time, you can visit the local flour mill in Monterrubio de la Demanda. To make the mill look like the...

Nativity of Our Lady
Parish Church of Santa Columba
Hermitage of the martyrs
Sierra de la Demanda (SCI)
Riverside of the Rio Arlanza and tributaries
Sierra de la Demanda Regional Hunting Reserve
Reservoir of Uzquia
Arlanzón River

19
20
21
22
23
24
25

Greenway Tours: basemaps

Possibility to **change**
the basemap
(topographic, aerial,
OSM, streets)



Vía Verde de la Sierra de la Demanda

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greenwayheritage.org/storymap/index.php?webmap=0b23f4c785f941ec99d4156501540bee

Change basemap

Barbadillo de Herreros

Parish Church of Visitation of Our Lady to Saint Elizabeth

The Romanesque baptismal font of the twelfth century, a crucifix, and especially the image of San Sebastián, work of Gil de Siloe. The main altarpiece is from the end of the eighteenth century and the minor ones from the x.XVII. It also has a Romanesque baptismal font, from the 12th century, decorated with serpentine fronds.

Vía Verde de la Sierra de la Demand Burgos Cathedral Archaeological Site of Atapuerca San Roque Hermitage Hermitage of Santo Cristo Hydraulic flour mill Parish Church of Visitation of Our Lady to Saint Church of San Protom

1 2 3 4 5 6 7 8

Universitat de les Illes Balears

This screenshot shows the desktop version of the Greenway Tours storymap for the Vía Verde de la Sierra de la Demanda. The map displays a greenway route through Barbadillo de Herreros, overlaid on a topographic base map. A red box highlights the 'Change basemap' button in the top left corner of the map interface. To the right of the map, a detailed photograph of a traditional stone building is shown, identified as the Parish Church of Visitation of Our Lady to Saint Elizabeth. A descriptive text box provides information about its historical features, including a Romanesque baptismal font and a crucifix. Below the map, a row of thumbnail images shows various points of interest along the greenway, such as the Vía Verde de la Sierra de la Demand, Burgos Cathedral, and Archaeological Site of Atapuerca.

Greenway Tours: basemaps

Possibility to **change**
the basemap
(topographic, aerial,
OSM, streets)



Screenshot of the Vía Verde de la Sierra de la Demanda storymap interface.

The top navigation bar shows the URL: greenwayheritage.org/storymap/index.php?webmap=0b23f4c785f941ec99d4156501540bee.

The title of the storymap is "Vía Verde de la Sierra de la Demanda".

A red box highlights a zoomed-in area of the map, with a red arrow pointing to it labeled "Change basemap".

The map displays a satellite view of a town with several buildings marked by yellow icons. A green line indicates the route of the Vía Verde.

To the right of the map, there is a detailed description of the "Parish Church of Visitation of Our Lady to Saint Elizabeth".

The description reads: "The Romanesque baptismal font of the twelfth century, a crucifix, and especially the image of San Sebastián, work of Gil de Siloe. The main altarpiece is from the end of the eighteenth century and the minor ones from the x.XVII. It also has a Romanesque baptismal font, from the 12th century, decorated with serpentine fronds." There is a blue circular icon with a white arrow pointing right next to the text.

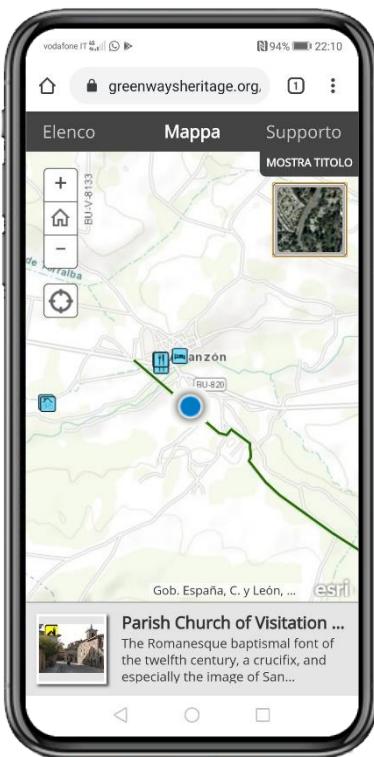
Below the description, there is a row of eight thumbnail images, each with a number and a caption:

- 1: Vía Verde de la Sierra de la Demanda
- 2: Burgos Cathedral
- 3: Archaeological Site of Atapuerca
- 4: San Roque Hermitage
- 5: Hermitage of Santo Cristo
- 6: Hydraulic flour mill
- 7: Parish Church of Visitation of Our Lady to Saint Elizabeth
- 8: Church of San Protomártir

An arrow icon is located at the bottom right of the thumbnail row.

Greenway Tours: geolocation

Possibility to **geolocate**
the map on the user
position and to trace it.



Vía Verde de la Sierra de la Demanda

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greenwayheritage.org/storymap/index.php?webmap=0b23f4c785f941ec99d4156501540bee

Arlanzón River

With a length of 115 km, the Arlanzón River rises in the Sierra de la Demanda. According to the Second National Forest Inventory (ICONA, 1994), the Arlanzón river basin is composed mainly of forest land (53.3%) and crops (43.8%). Between the localities that it crosses can be mentioned Pineda of the Mountain range, Villasur de Herreros, Arlanzón.

User position →

Nativity of Our Lady

Parish Church of Santa Columba

Hermitage of the martyrs

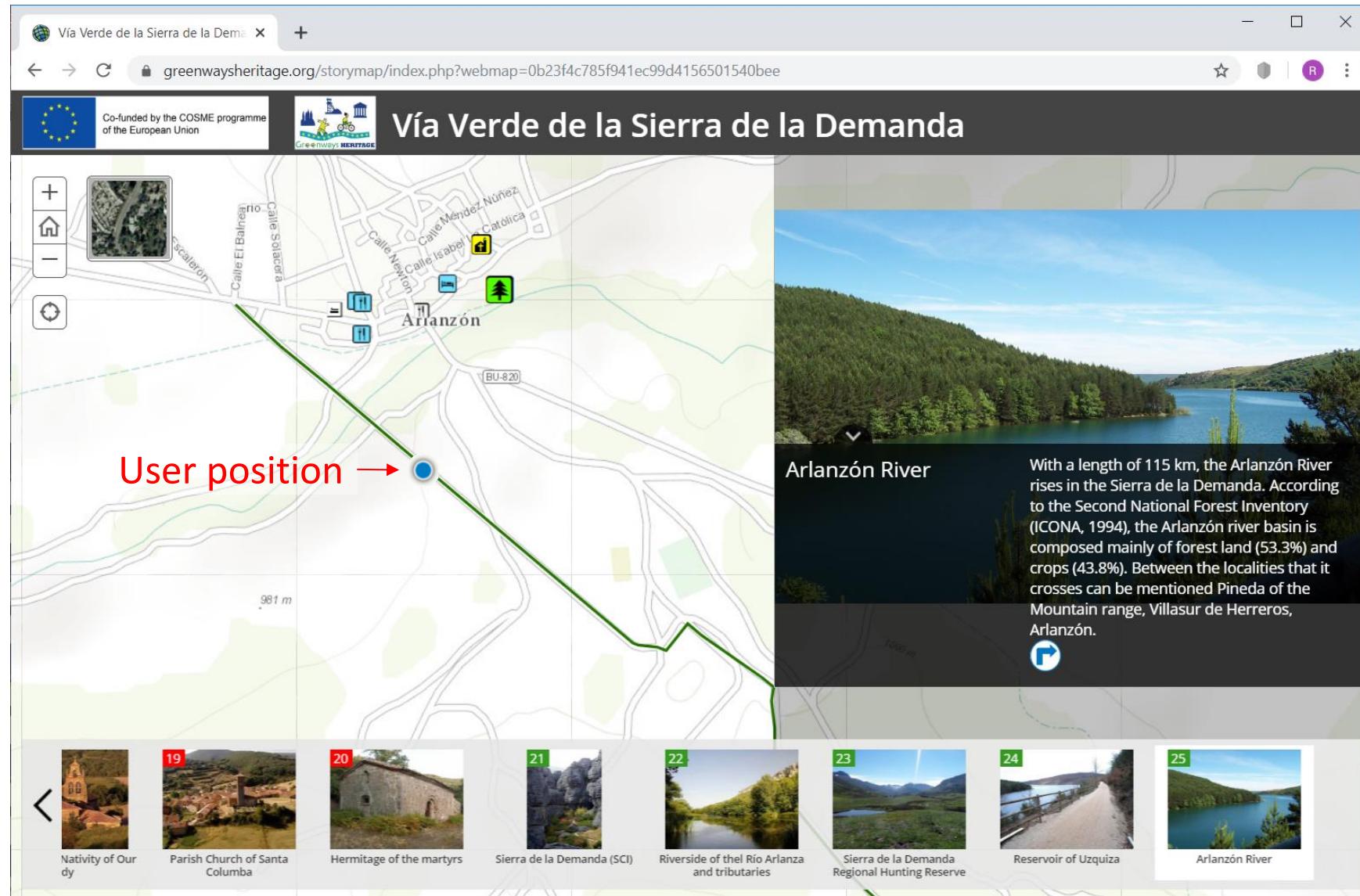
Sierra de la Demanda (SCI)

Riverside of the Rio Arlanza and tributaries

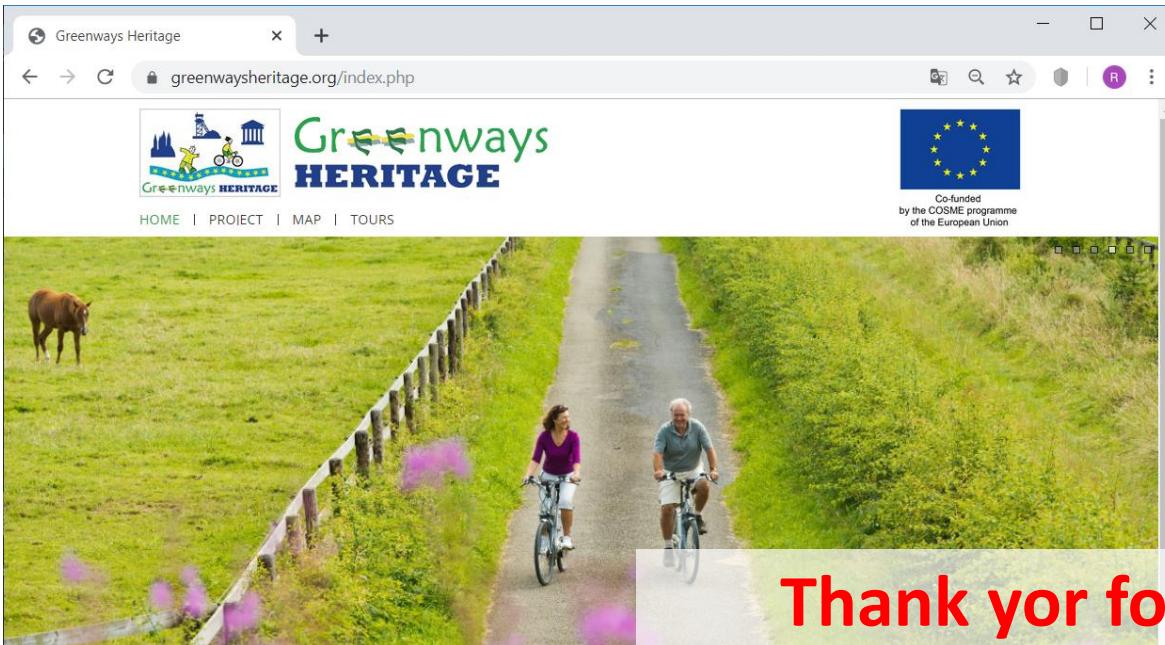
Sierra de la Demanda Regional Hunting Reserve

Reservoir of Uzquiza

Arlanzón River



Web-GIS application



Greenways HERITAGE

Co-funded by the COSME programme of the European Union

HOME | PROJECT | MAP | TOURS

A horse in a field

Two people cycling on a path

Thank you for attention!
Enjoy the Web-App!!

Connect UNESCO and cultural heritage with greenways to develop a new tourism product.

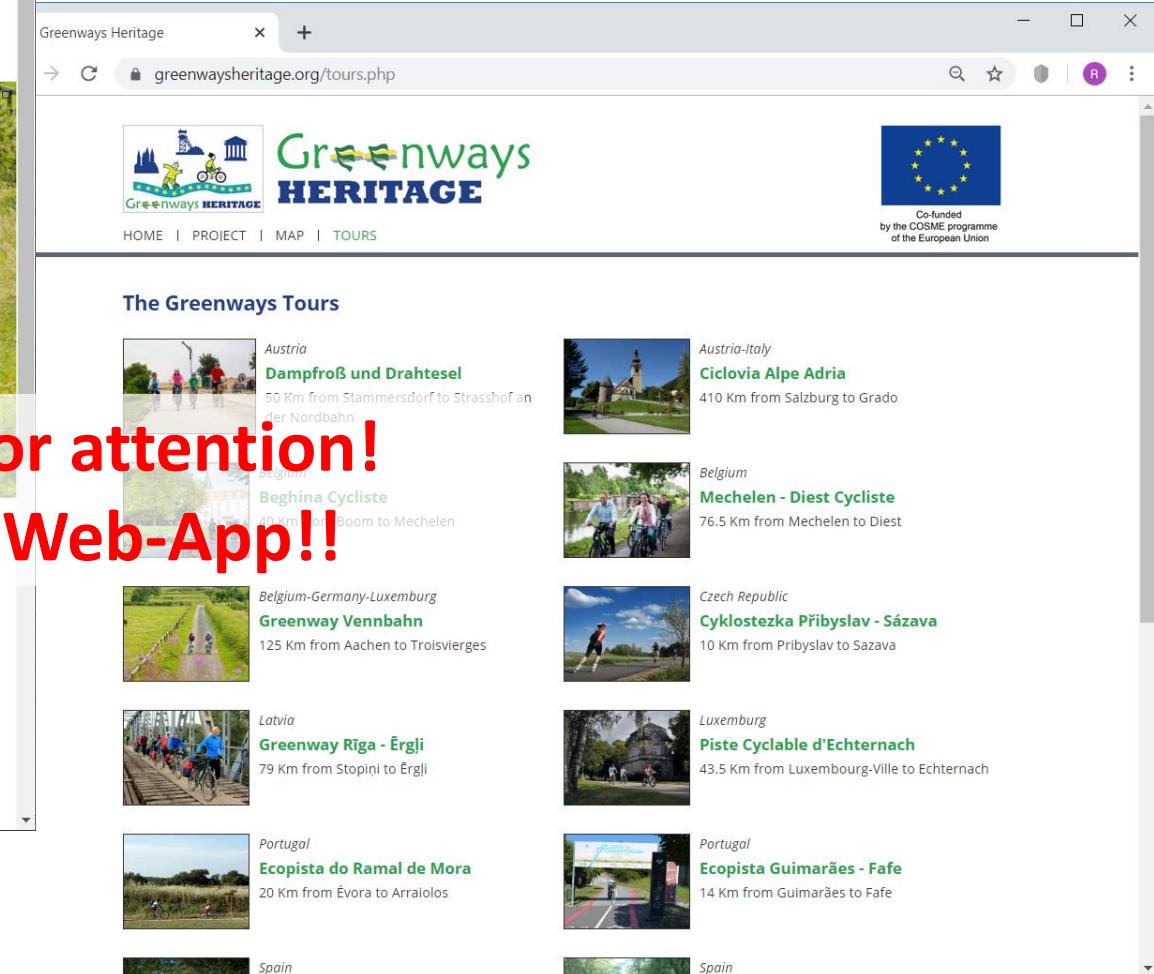
Website in progress, soon fully available. Please keep tuned, we wait for your next visit to experience all the content!

Project 

Explore Map 

Enjoy Tours 

www.greenwaysheritage.org



Greenways HERITAGE

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HOME | PROJECT | MAP | TOURS

The Greenways Tours

Country	Tour Name	Description
Austria	Dampfroß und Drahtesel	50 Km from Stammersdorf to Strasshof an der Nordbahn
Austria-Italy	Ciclovia Alpe Adria	410 Km from Salzburg to Grado
Belgium	Beghina Cycliste	10 Km from Boom to Mechelen
Belgium	Mechelen - Diest Cycliste	76.5 Km from Mechelen to Diest
Belgium-Germany-Luxemburg	Greenway Vennbahn	125 Km from Aachen to Troisvierges
Czech Republic	Cyklostezka Přibyslav - Sázava	10 Km from Přibyslav to Sázava
Luxemburg	Piste Cyclable d'Echternach	43.5 Km from Luxembourg-Ville to Echternach
Portugal	Ecopista do Ramal de Mora	20 Km from Évora to Arraiolos
Portugal	Ecopista Guimarães - Fafe	14 Km from Guimarães to Fafe
Spain		