



DESTI-SMART
Interreg Europe



European Union
European Regional
Development Fund

Action Plan Implementation

Regione Autonoma della Sardegna

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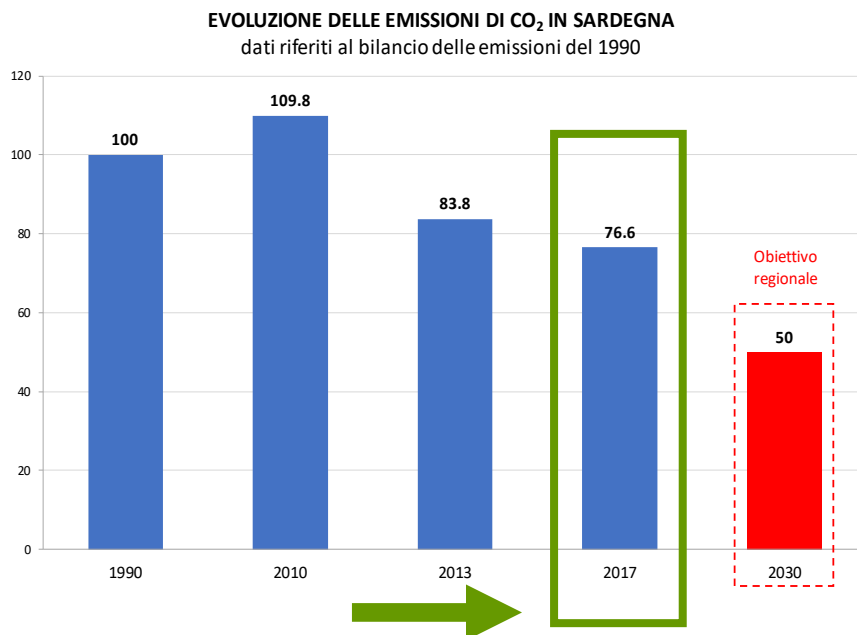


REGIONE AUTÒNOMA DE SARDIGNA
REGIONE AUTONOMA DELLA SARDEGNA

28 April 2022 | **Final conference**

Regional objectives

2030 Regional Objective : CO2 Emissions -50% (compared to 1990)



Co2 emissions trend in Sardinia has steadily declined.

Emissions generated by the Thermic transformation and consumption sector decreases, Transport macro-sector increases

As part of the regional and national objectives, the strategy put in place provides for the articulation on different and synergic projects aimed at a decisive reduction of **climate-changing emissions** through:

- **Maximizing self-consumption**
- **Maximizing of energy efficiency;**
- **Energy generation and distribution based on Smart Grid.**

Strategic projects

RAS is mainly the planner (and at times the developer) of **strategic projects** such as:

- 1 Electric mobility promotion
- 2 Micro and smart grid experimental projects in two villages: Berchidda and Benetutti
- 3 SME efficiency incentives
- 4 Pilot project for a smart-grid in Sassari and Cagliari University
- 5 **SmartER Project** – **Smart** grid degli **E**difici **R**egionali
- 6 Experimental plan in the industrial Area of Ottana
- 7 Partnership in European projects



Our Actions

- 1. Low carbon Mobility**
- 2. Cycling & walking mobility**
- 3. Intermodality**

Low carbon mobility



Regional Action Plan for charging stations

Regional Plan formally adopted in November 2018

It delivers a detailed study that, in relation to the residents and tourists mobility demand, identify for the all the regional territory:

- Places to install charging infrastructures: main urban areas, touristic areas (such as ports, airports, train stations) and main regional roads.
- Typology and technical features of infrastructures (fast, quick, slow)
- Costs and public procurement processes

Overall, 145 areas, 582 charging stations, 878 charging points

Low carbon mobility

Regional Action Plan for charging stations for electric vehicles

The **agreement protocol** with the Municipalities involved and a Private operator (Enel X) has been signed in May 2021.

Installations to be completed by June 2023

Project updated to 602 charging stations in 28 Municipalities

Private Operator:

- The regional electric charging network will be implemented and managed by the private operator with own resources (i.e. no public funding) on the basis of the Regional Action Plan for charging stations
- The Private Operator will implement an informative and promotional campaign towards residents and tourist (app included) to promote the net and the electric mobility

Low carbon mobility

Regional Action Plan for charging stations for electric vehicles

Municipalities:

- guarantee to the private operator the free-of-charge grant of public areas where installing the charging stations
- Renew their own fleet with electric vehicles



Low carbon mobility

Regional Action Plan for charging stations for electric vehicles

Region of Sardinia:

- coordination between Municipalities and the private operator in order to simplify the administrative procedures needed to grant the areas for charging stations
- the funding needed to incentive public administrations and private operators to purchase electric vehicles (ongoing)
- The funding needed to incentive private operators to build charging stations along the main regional roads (powered by renewable energy and integrated with their own microgrid)

Regional Operational Programme Sardegna ERDF

- Act. 4.3.1. "Smart grids"
- Act. 4.6.4. "Low-impact transport infrastructure and charging hub"



Electric mobility for smart cities (National funds)

ACTIONS:

1. Incentives to replace motor vehicles with electric vehicles:

- for enterprises thought open call

245 CARS - Budget: 4.000.000€

- for public Administrations

130 CARS - Budget 2.990.000€ thought a framework agreement

84 CARS - Budget: 3.218.000€ thought an open call



Electric mobility for smart cities (National funds)

2. Creation of a regional network of recharging infrastructures
(Città Metropolitana di Cagliari,
Rete Metropolitana di Sassari, Nuoro, Oristano and Olbia)

- Public/private partnership without public funding
- Supervision by RAS
- Permits by local administrations / Municipalities - in progress



Electric mobility for smart cities (National funds)

3. co-financing individuals and SMEs for the construction of charging infrastructures powered by photovoltaic – Sardinian main roads through open call

➤ 10 projects funded - Budget: 2.400.000€

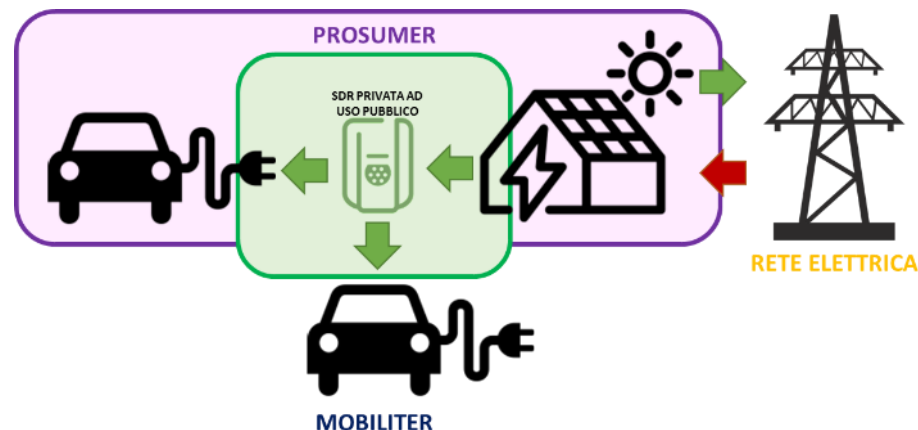


4. integration of electric mobility with smart grids in the municipalities of Santa Teresa di Gallura and Sant'Antioco

➤ Budget: 1,800.000€

Stakeholder pilot: **SUN2CAR**

- Innovative smart charging station
- Small private/public charging stations connected to photovoltaic solar energy production with autoconsumption.
- Located strategically so to mitigate the range anxiety and promote local attractions
- Partnership with commercial and tourist services.
- First development with RETIC Interreg Maritime project, Pilot project with Sardara Municipality.



UN PROGETTO DI



PARTNER RETIC



La cooperazione al cuore del Mediterraneo
La coopération au cœur de la Méditerranée

Stakeholder pilot: **SUN2CAR**

CIS - AREA CAMPIDANO-MARMILLA-LINAS



UN PROGETTO DI



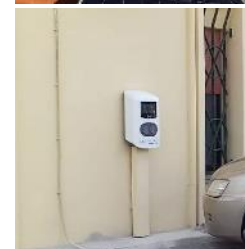
PARTNER RETIC



La cooperazione al cuore del Mediterraneo
La coopération au coeur de la Méditerranée

Stakeholder pilot: **SUN2CAR**

Second charging station full renewable h24 18/03/2022



UN PROGETTO DI



PARTNER RETIC



La cooperazione al cuore del Mediterraneo
La coopération au cœur de la Méditerranée

Cycling & walking mobility

Implementation of the Regional Cycling Mobility Plan

The Regional Plan

- approved in December 2018
- It identifies and plans the regional cycle network (> 2000 km of cycle routes)
- The regional cycle network has been proposed to be part of the European network (EuroVelo) and of two national networks (National System of Tourist Cycle Routes and Bicalta)

The cycling mobility plan of Sardinia

46

CYCLE ROUTES
(2,098 km)



6

BIKE + TRAIN ROUTES
(550 km)

256

URBAN CENTRES

2

NATIONAL PARKS

231

**MUNICIPAL
TERRITORIES**

4

REGIONAL PARKS

3

AIRPORTS

85

**NATURA 2000
SITES**

8

PORTS

2

**UNESCO
SITES**

49

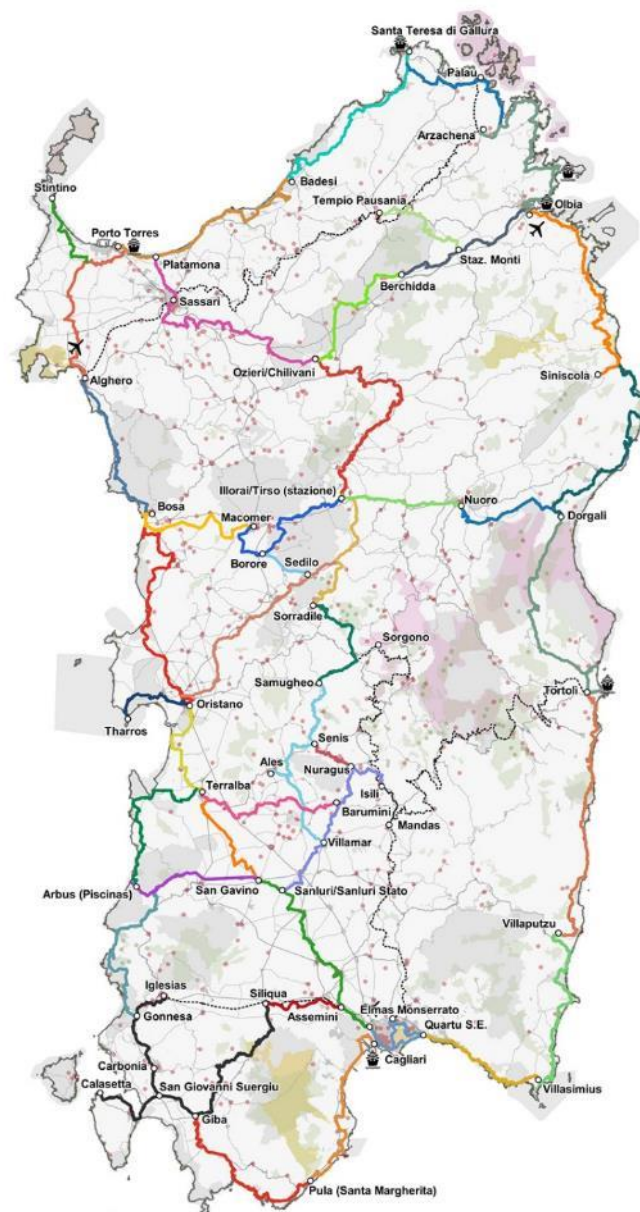
RAILWAY STATIONS

747

**PLACES OF
INTEREST**

432

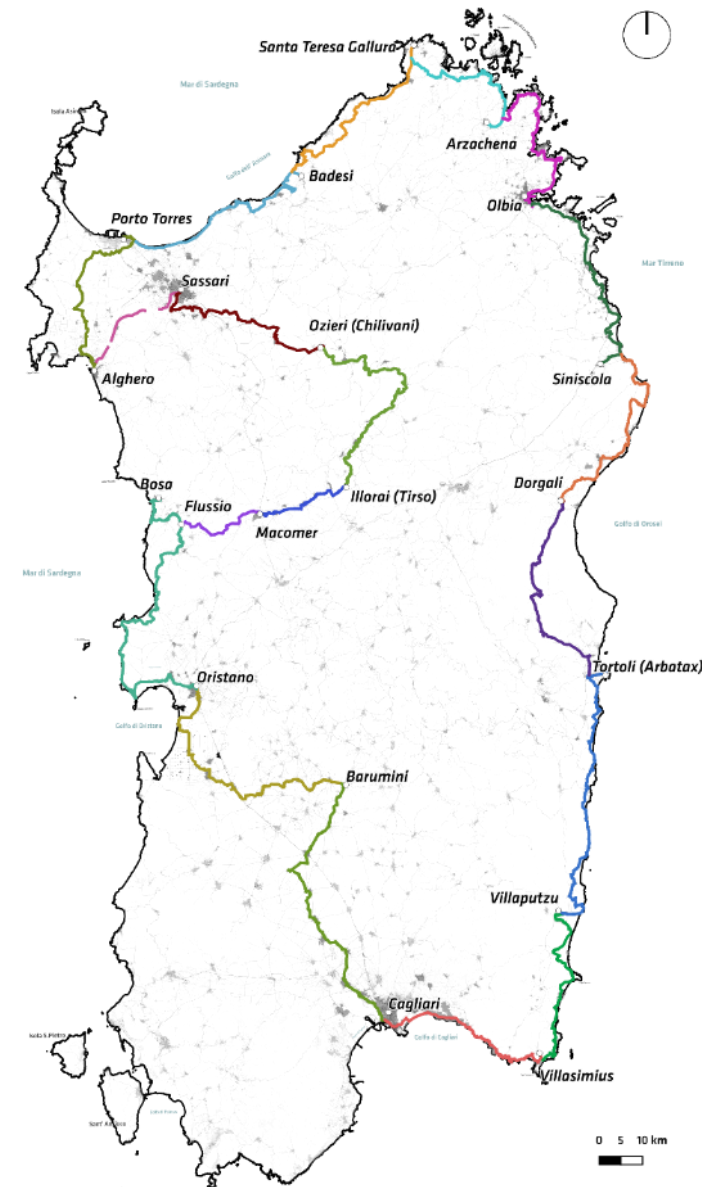
BUS STOPS



The SNCT extension proposal

The Cycle route of Sardinia is part of the Sistema Nazionale Ciclovie Turistiche (SNCT) - **National System of Tourist Cycle routes** proposed by MIMS and MIBACT.

18	CYCLE ROUTES (1,117 km)	+	1	BIKE + TRAIN ROUTE (30 km)
152	URBAN CENTRES		3	NATIONAL PARKS
115	MUNICIPAL TERRITORIES		4	REGIONAL PARKS
3	AIRPORTS		37	NATURA 2000 SITES
6	PORTS		1	UNESCO SITE
25	RAILWAY STATIONS		374	PLACES OF INTEREST
697	BUS STOPS			



SNCT – Sardinia timeline



THE ECONOMIC FRAMEWORK

CONSTRUCTION COST: 355M€



RESOURCES AVAILABLE: 65M€



8M€ regional infrastructure plan
priority routes



7M€ ERDF 2014-2020 –
Action 4.6.4
metropolitan areas



16.6M€ MIMS - SNCT
Cycle route of Sardinia

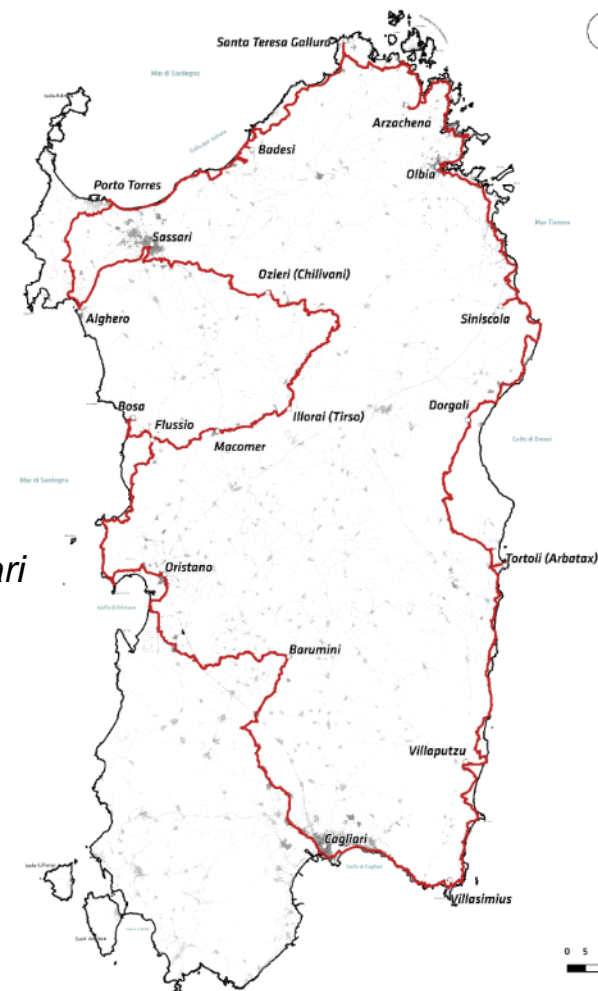


33M€ PNRR
Cycle route of Sardinia

5 routes
covering
around **670 km**

3 sections
covering around **40 km**
Metropolitan area of Cagliari
Sassari - Porto Torres
Olbia harbor - airport

8 route
covering
770 km



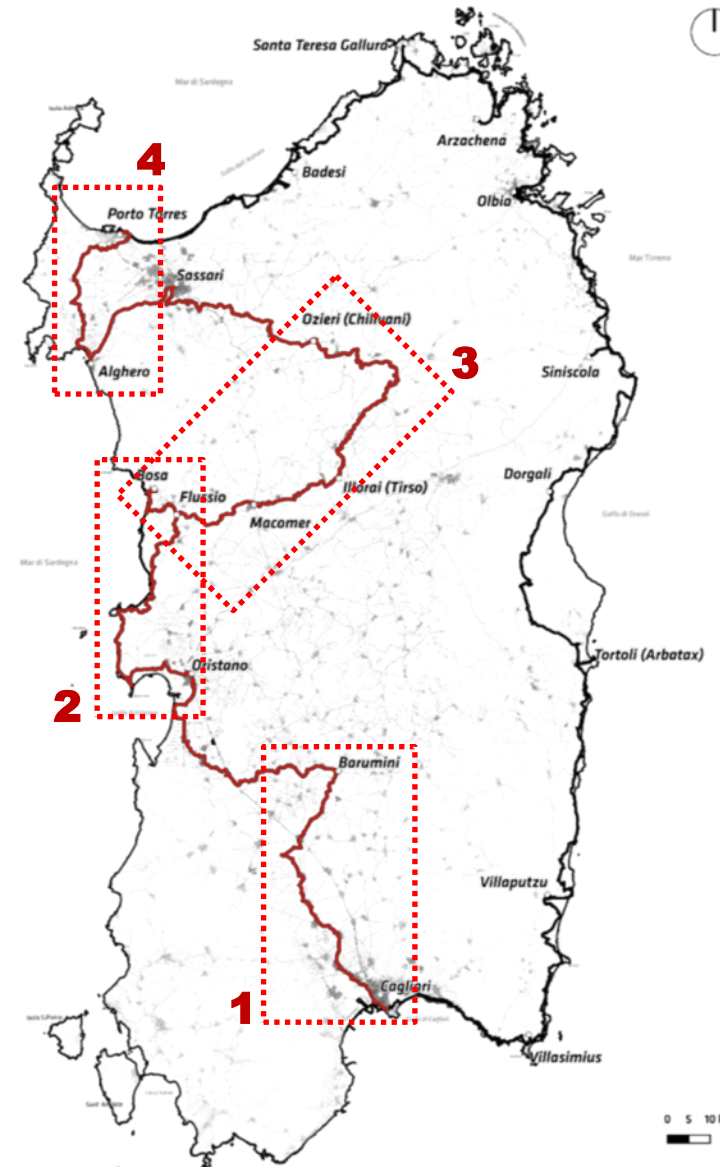
THE PRIORITY SECTIONS

1st PRIORITY SECTION
RAS: € 8,000,000.00

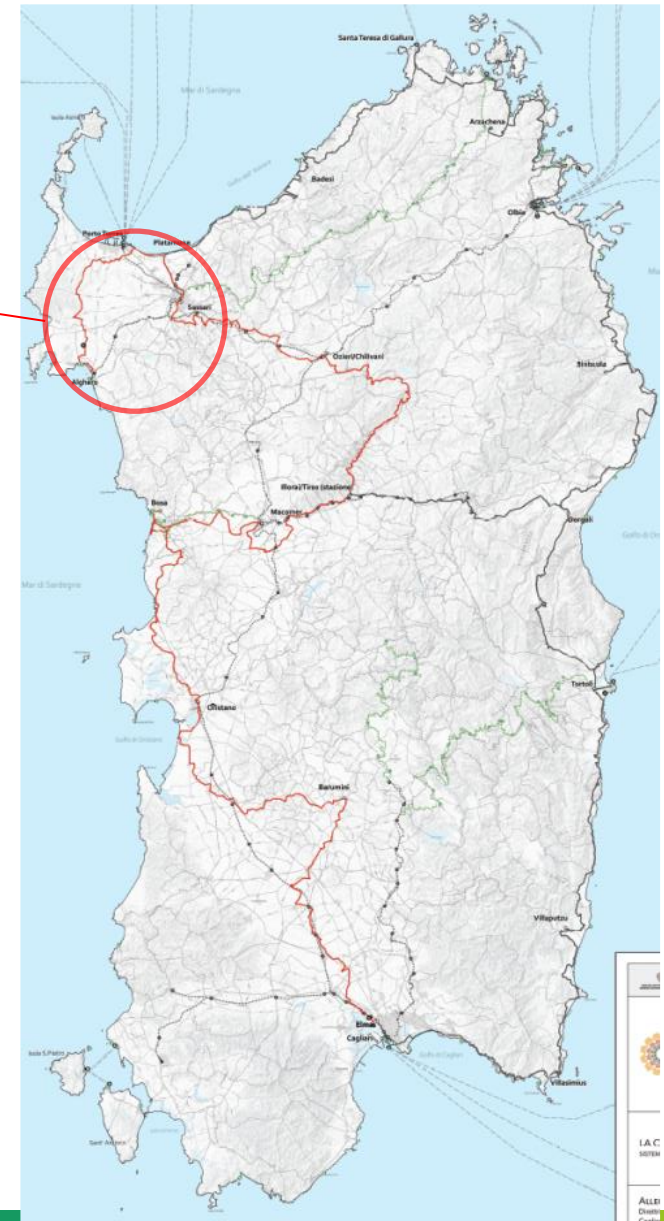


PROJECT DEVELOPED:

- 1) **Cagliari-Barumini**
- 2) **Terralba-Oristano-Bosa**
- 3) **Bosa-Macomer-Ozieri**
- 4) **Alghero-Porto Torres**



Cycling: Alghero-Porto Torres-Sassari



THE PRIORITY SECTIONS



1st PRIORITY SECTION
SNCT: € 16,622,512.36



Lot 1 - Track 1

From: **Cagliari, P.zza Matteotti**

To: **Elmas**

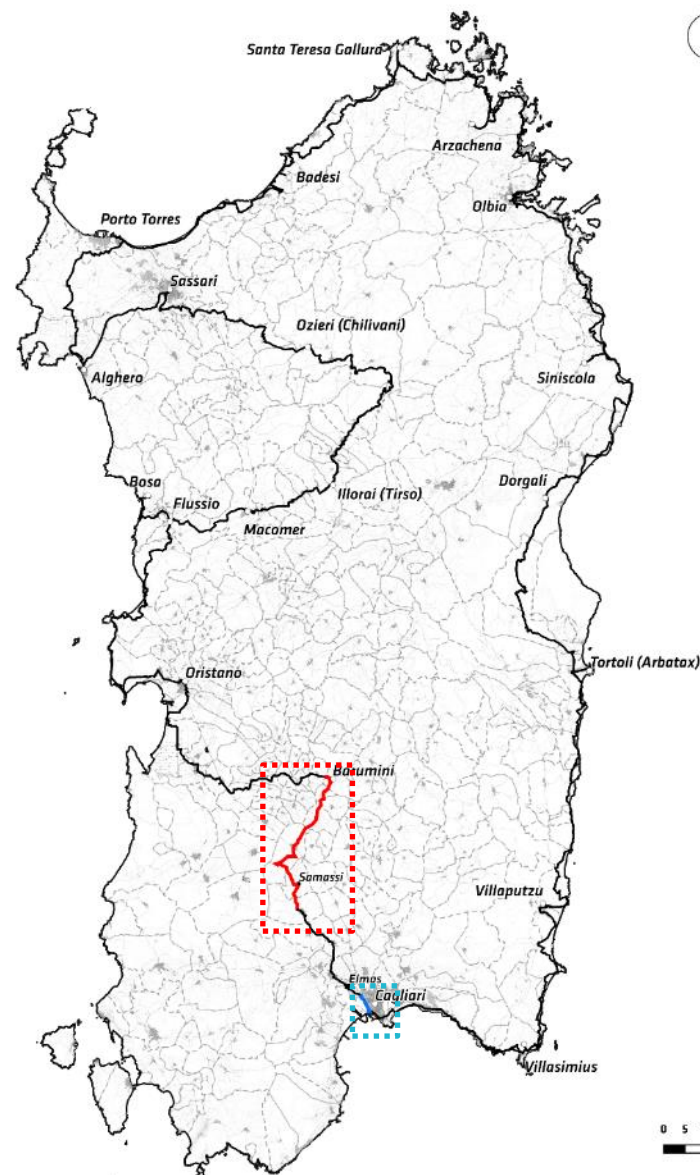
Length: **5 km**

Lot 1 – Track 2

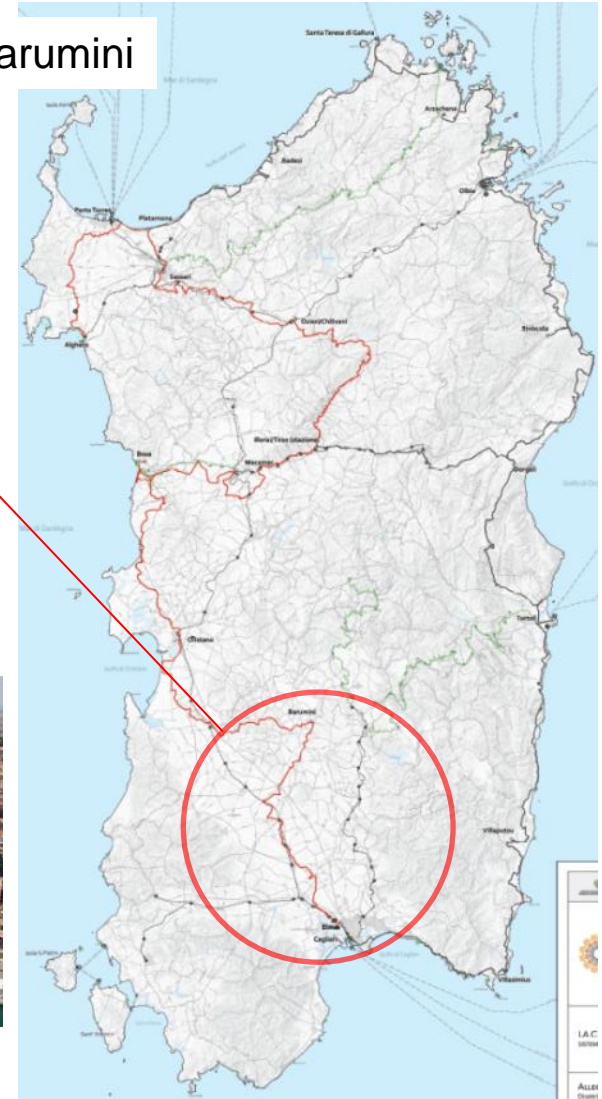
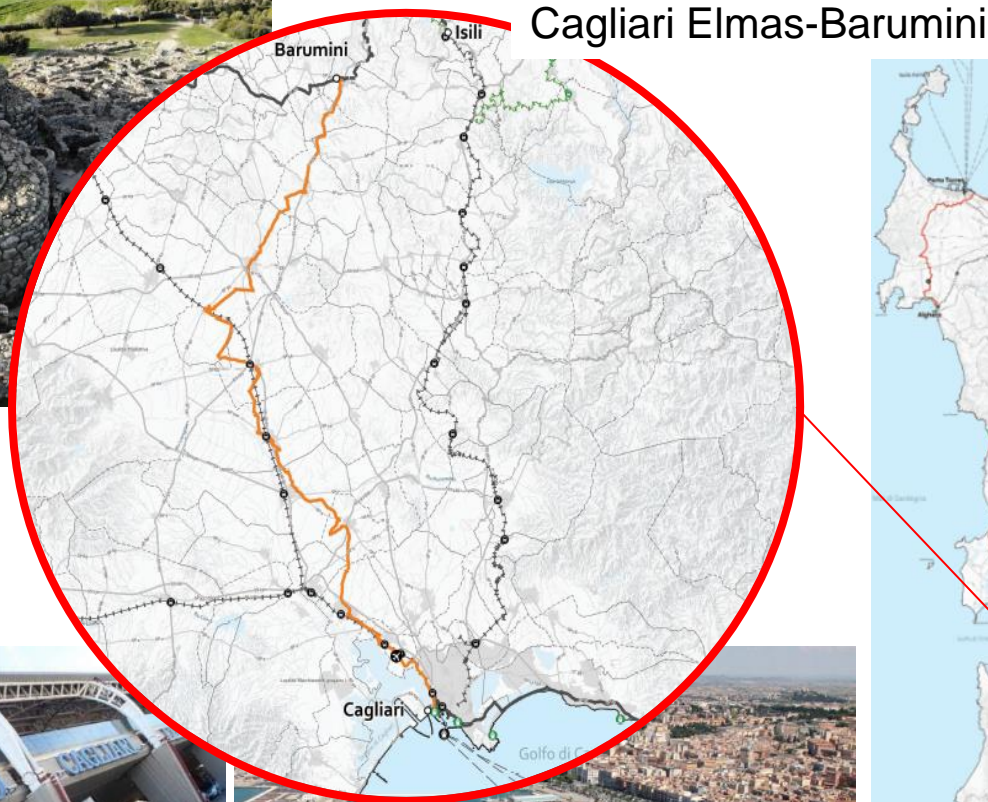
From: **Samassi**

To: **Barumini, Su Nuraxi (UNESCO)**

Length: **38 km**



Cycling: Cagliari Elmas-Barumini



THE PRIORITY SECTIONS

1st PRIORITY SECTION NEXT STEP

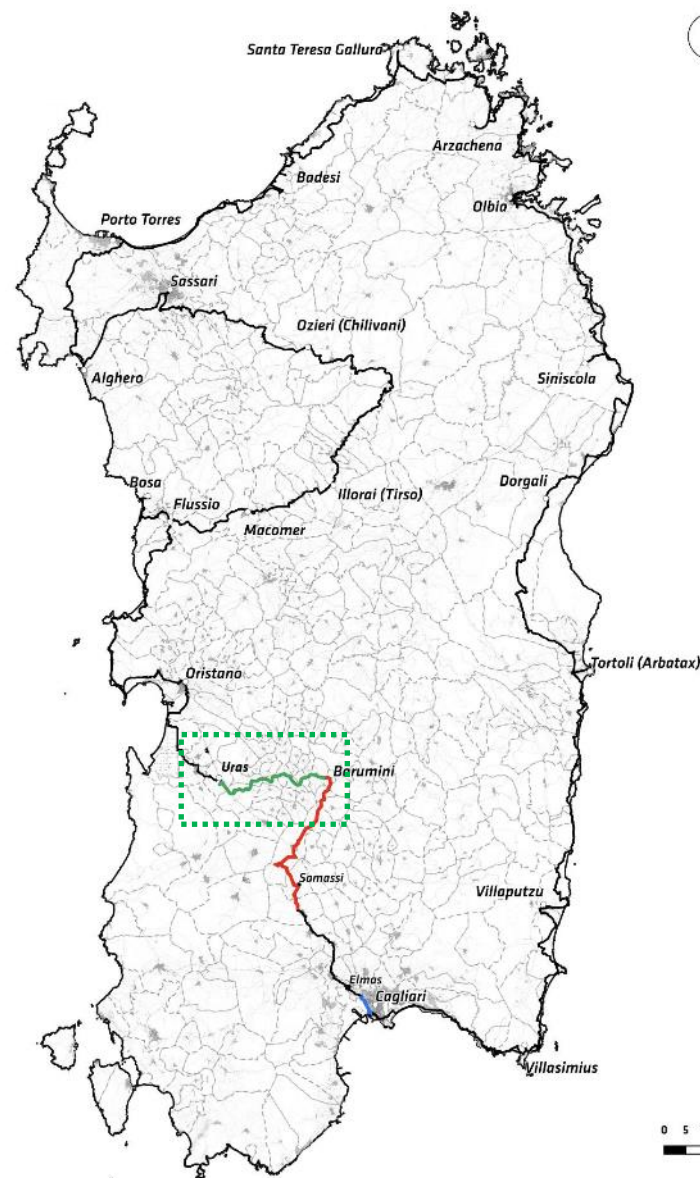


Lot 2

From: **Barumini, Su Nuraxi (UNESCO)**

To: **Uras/Terralba**

Length: **43 km**



Stakeholder contribution on accessibility



- Platform created to enable smart mobility. Passenger information and ticketing are the cornerstones of a complete SaaS product
- VIRTUAL TRAVEL ASSISTANT: the app is optimized to be best enjoyed by the blind people. Features a virtual travel assistant and the automated booking at the pick-up point directly linked to the control center or the driver.
- AUTOMATIC CHEK-IN & CHECK-OUT: uses Bluetooth technologies for the automatic check-in and check-out operations. This feature is very important to enable accessibility for visitors with mobility problems, which must not interact with the ticket validator on board the vehicle.

State of the art and DESTI-SMART legacy

At the time of this event, RAS is transitioning to the new programming (ERDF 2021-27). The programme negotiation is still open and the final decisions are expected by second half of 2022. Consequently, the main effort is now on the development and completion of ongoing projects.

The proposed programme related to “Green Transition” allocates a budget of 473M€ which, together with the “Urban Sustainable Mobility” (53M€), make up for 35% of the Programme for Sardinia. Among others. Thanks to DESTI-SMART, planned activities include among others:

Mobility	Energy
Promotion of sustainable multimodal urban mobility as part of the transition to a net zero carbon economy	Increase in the use of renewable energy in public buildings
Clean urban transport infrastructures	Increase in the use of renewable energy in buildings, plants and business processes
New cycling infrastructures	Support for the establishment of energy communities
Digitization of transport, if dedicated in part to the reduction of greenhouse gas emissions: urban transport	implementation of digital management systems for intelligent energy systems, including intelligent grids and ICT systems
Infrastructure for alternative fuels	Solutions for the storage of electricity
Zero emission/electric mobile railway infrastructures	



Thank you!

<http://www.regione.sardegna.it/sardegnaenergia/>
<https://www.sardegnaturismo.it/>

Servizio Energia ed Economia Verde
Assessorato dell'Industria, Regione Autonoma della Sardegna



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