

Interreg

ITALIA-SLOVENIJA



SECAP

Progetto strategico co-finanziato dal Fondo europeo di sviluppo regionale
Strateški projekt sofinancira Evropski sklad za regionalni razvoj



UNIONE EUROPEA
EVROPSKA UNIJA

Supporting energy and
climate adaptation policies



S E C A P

Presentation of SECAP project results

GOLEA GORIŠKA LOKALNA
ENERGETSKA AGENCIJA
NOVA GORICA



REGIONE AUTONOMA
FRIULI VENEZIA GIULIA

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Nicolò Tudorov, Friuli Venezia Giulia Autonomous Region

30th March 2022



REGIONE AUTONOMA
FRIULI VENEZIA GIULIA



UNIVERSITÀ
DEGLI STUDI DI TRIESTE

AREA
SCIENCE PARK



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V
Università Iuav
di Venezia



UNIONCAMERE
VENETO

**GO
LEA**

leag



RRA LUR



About the project

Title: Supporting energy and climate adaptation policies

Programme: Interreg V-A Italija-Slovenija

2014-2020

Duration: 01.11.2018 ~ 30.4.2022

Budget: 2.940.351,30 €

Website: www.ita-slo.eu/secap

Objectives of the project:

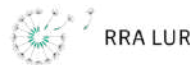
- fostering the sustainable development of the cross-border territory
- promoting low-carbon strategies
- creating relevant adaptation and mitigation measures



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Project partners

1. Friuli Venezia Giulia Autonomous Region
2. University of Trieste
3. Area Science Park Trieste
4. City of Venice
5. University of Architecture (IUAV) Venice
6. Unioncamere Veneto
7. Goriška local energy agency (GOLEA)
8. Local energy agency of Gorenjska region (LEAG)
9. Regional development agency for Ljubljana urban region (RRA LUR)
10. Municipality of Pivka



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Project results

- Pilot actions adapted to local needs
- Investments in energy efficiency and adaptation to climate change
- Elaboration of Sustainable Energy and Climate Action Plans (SECAPs)
- A unified cross-border mitigation and adaptation strategy, supporting the transition to a green economy, and creating new job opportunities
- Training sessions for municipalities and raising



Pilot actions of the project

- Energy audit (Museum Revoltella in Trieste)
- Study: Potential of heat use from municipal wastewater in the Municipality of Kranj
- Air quality measuring station (smart city Kranj)



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Pilot actions of the project

- Small infrastructure investments for monitoring energy consumption (municipality of Log - Dragomer)
- Collection of good practices with a set of appropriate measures in the field of climate change mitigation and adaptation



Investments

Municipality of Pivka

In addition to the thermal envelope of the building, the municipality of Pivka, as the largest multi-purpose public building (internal area of 3,052 m²), arranged two green roofs on the flat part of the roof with a total area of approx. 130m².



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Investments City of Venice

The investment relates to the innovative experimental house "House of Energy", which addresses issues of energy saving in outdoor areas and mitigation of heat waves and extreme weather.

Measures:

- collection of excess rainwater as an adaptation measure,
- green areas to diversify biodiversity and mitigate heat waves,
- construction of walking surfaces from recycled materials with high permeability.



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Sustainable energy and climate action plan

Made in accordance with the methodology of the Covenant of Mayors for Climate Change and Energy.

Components: Basic Emission Inventory, Risk and vulnerability assessment to climate change, Action Plan Milestones:

- determination of the base year 2005 or later
- identification of sectors of treatment (mitigation and adaptation)
- setting up working groups for different sectors on climate change

I. PART - MITIGATION:

- public buildings
- residential buildings
- public lightning
- traffic

II. PART - ADAPTATION:

- water and water resources
- flood safety and water supply
- agriculture
- forestry

- health
- tourism

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Mitigation and adaptation to climate change

MITIGATION

Actions to reduce and curb greenhouse gas emissions

ADAPTATION

Actions to reduce vulnerability to climate change



Greater use of renewable energy



Electrification of industrial processes



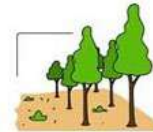
Efficient transport
(electric public transport, bicycles, etc.)



Carbon tax and emissions markets



More secure facility locations and infrastructures



Landscape restoration
(natural landscape)
and reforestation



Flexible and diverse cultivation to be prepared for natural catastrophes



Research and development on possible catastrophes, temperature behavior, etc.



Preventive and precautionary measures
(evacuation plans, health issues, etc.)

Mitigation attends to the causes of climate change and adaptation addresses its impacts

Sustainable energy and climate action plan

PREPARATION OF SECAP STRATEGIC DOCUMENTS AND OPERATIONAL SUPPORT TO MUNICIPALITIES:

1. Ajdovščina
2. Nova Gorica
3. Koper
4. Idrija
5. Pivka
6. Brezovica
7. Sacile, Brugnera, Polcenigo, Budoia, Caneva, Fontanafredda
8. Trieste and Duino

Population of the municipalities involved:
400.000 inhabitants

HELP-DESK

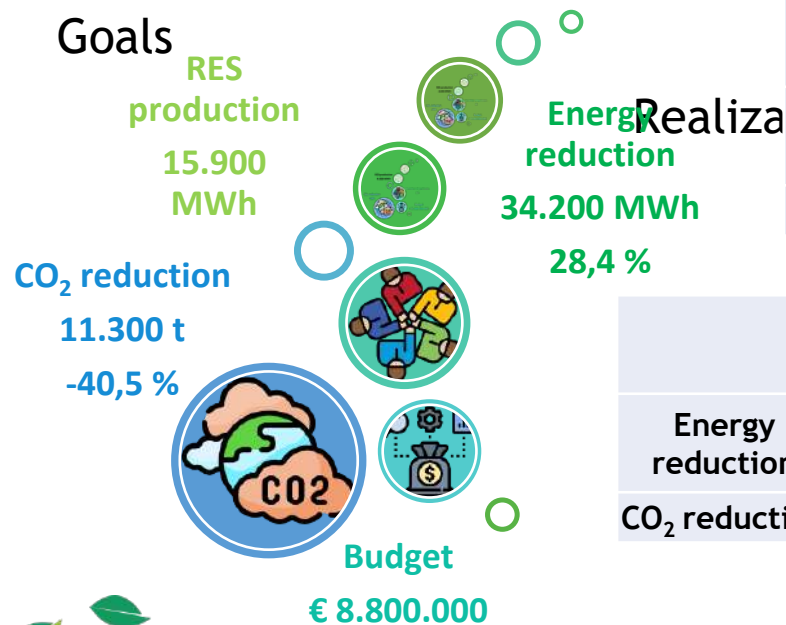
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Sustainable energy and climate action plan

The example of the Municipality of Idrija

Reference year: 2009



	Residential buildings	Public buildings	Traffic	Public lightning	SUM
Energy reduction	-3,9%	-25,8%	-3,9%	-56,2%	-5,4%
CO ₂ reduction	-16,7%	-32,3%	-2,5%	-56,2%	-13,0%

	diesel	gasoline	Heating oil	Liquified gas	Natural gas	Electri.	SUM
Energy reduction	36,7%	-46,0%	-51,6%	-54,2%	100,0%	-1,4%	-5,4%
CO ₂ reduction	36,7%	-46,0%	-51,6%	-54,2%	100,0%	-1,4%	-13,0%

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Analysis of climate scenarios

ANALYSIS OF CLIMATE SCENARIOS DOCUMENT

Analysis of

- Energy consumption and baseline emissions
- Climate, observed climate changes, scenarios, risks and impacts

TERRITORY: Friuli Venezia Giulia region, City of Venice, Gorenjska region, Osrednjeslovenka region, Primorsko-Notranjska region, Obalno-Kraška region, Goriška region.



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Cross-border mitigation Strategy

- Can climate action transform our economy and society? (policies, strategies and plans)
- Climate action: where are we? What can we deliver up to 2030?
- How can climate action be delivered?
- A vision up to 2050
- How can emissions be tracked, measured, and monitored to meet climate targets?

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Cross-border adaptation Strategy

CLIMATE CHANGE VULNERABILITY ASSESSMENT

- Cross-border Atlas of territorial vulnerability
- Inventory of strategies, measures, projects
- Bilingual online database on: energy, climate, environment

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Cross-border adaptation Strategy

VULNERABILITY ASSESSMENT

Development of 3 different methodologies to detect the different vulnerabilities

Urban Flooding (UF)

Venice

Friuli Venezia Giulia

Slovenia

Urban Heat Island (UHI)

Venice

Friuli Venezia Giulia

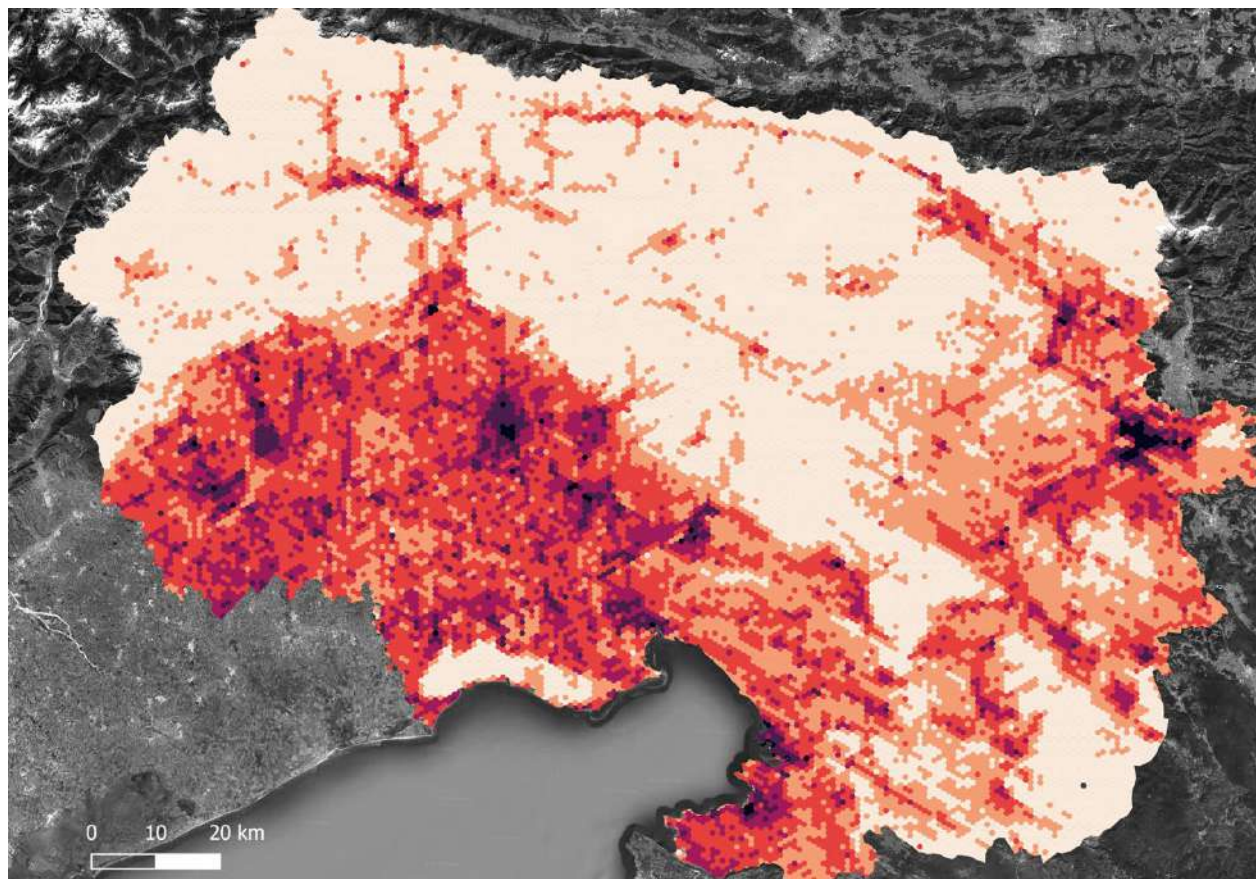
Slovenia

Snow and Ice melting

Slovenia

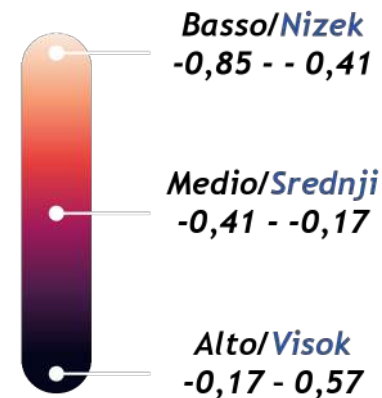
Friuli Venezia Giulia

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Urban Heat Island (UHI)
vulnerability

Classe di valori
Vrednostni razred

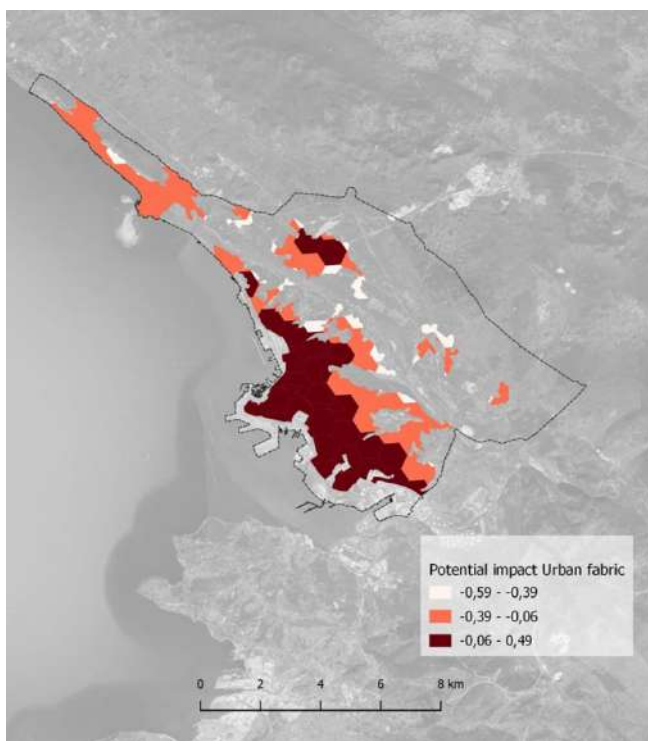


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Cross-border adaptation Strategy

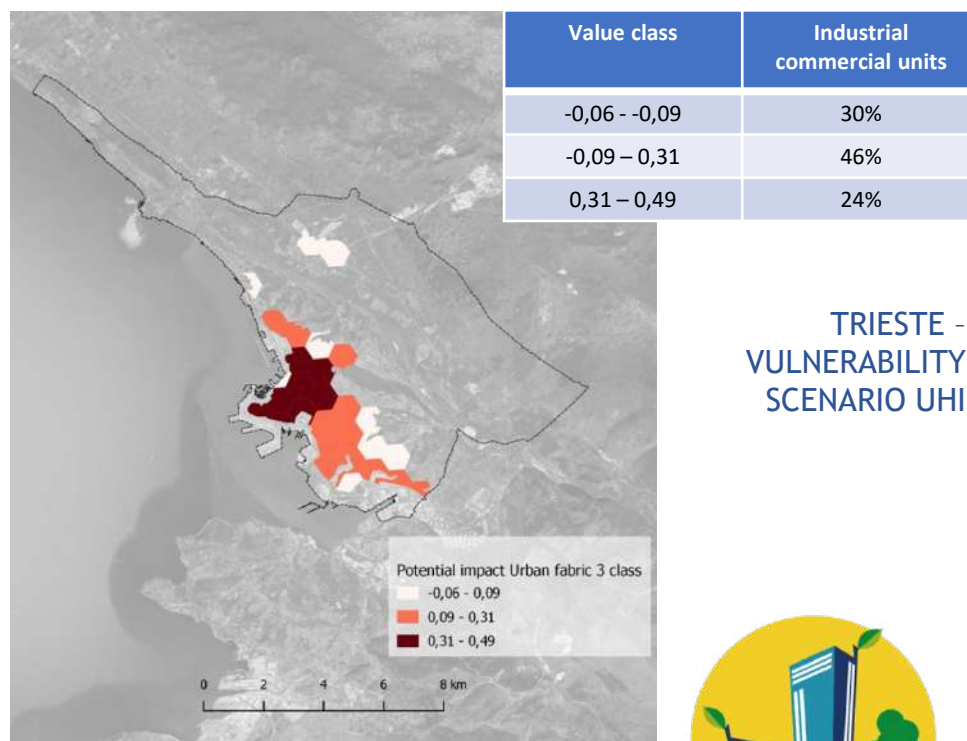
Vulnerability vs. Urban fabric

Three vulnerability distribution classes



Vulnerability vs. Urban fabric

Subclassifications of the highest vulnerability level



TRIESTE -
VULNERABILITY
SCENARIO UHI



SECAP

Guidelines for municipalities

1. Introduction
2. The Sustainable Energy and Climate Action Plan - SECAP
 1. The New Covenant of Mayors for Climate and Energy
 2. What is a SEAP/SECAP
 3. The accession procedure and signatories' commitments
 4. Slovenian policies, strategies and plans to reach the goals by 2030
3. The experience of the SECAP Project in supporting the drafting of a SECAP
 1. The SECAP Project Pilot Actions
 1. PA1: Municipality of Trieste
 2. PA2: Municipality of Duino-Aurisina
 3. PA3: Metropolitan City of Venice
 4. PA4: Metropolitan City of Venice: Realisation of the external green areas and support of hydraulic invariance for the "Casa dell'Energia" complex.
 5. PA5: Municipality of Ajdovščina
 6. PA6: Municipality of Idrija
 7. PA7: Municipality of Koper
 8. PA8: Municipality of Nova Gorica
 9. PA9: Municipality of Pivka
4. Conclusions
5. Annex I - Tables
6. List of Images
7. List of Tables



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Training sessions

TRAINING SESSIONS

- 22.01.2020: Efficient energy planning and implementation of measures in public sector and introduction of innovative technologies for successful adaptation to climate changes in cooperation with local stakeholders and expert public (Nova Gorica, SLO)
- 03.07.2020: Adaptation to climate change in territorial governance: from large area strategies to the local context, to planning (webinar, ITA)
- 26.11.2020: Mitigation and adaptation due to climate change (webinar, SLO)
- 26.11.2020: Sustainable Energy and Climate Action Plan (SECAP): preparation of the Baseline CO2 Emission Inventory (BEI) and the assessment of climate vulnerabilities (webinar, ITA)



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Training sessions

TRAINING SESSIONS

- 05.02.2021: Decision support system against climate changes - strategies and opportunities (webinar, ITA)
- 11.10.2021: Approaches and tools for implementing PAESC (webinar, ITA)
- 28.10.2021: Workshop on energy communities (webinar, ITA)
- 11.11.2021: Policies and tools to plan climate adaptation (webinar, ITA)
- 29.3.2022: Sustainable Energy and Climate Action Plans (Brezovica, SLO)



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Hvala za pozornost /
Grazie per l'attenzione



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