



**TEDEN SREDOZEMSKO OBALNE
IN MAKROREGIONALNIH
STRATEGIJ**

Izola, Slovenija
15. – 17. september 2025

**MEDITERRANEAN COAST
AND MACRO-REGIONAL
STRATEGIES WEEK**

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From Risk to Resilience: Coastal Plans for a Changing Climate in the Mediterranean Region

Ivan Sekovski, PAP/RAC Programme Officer

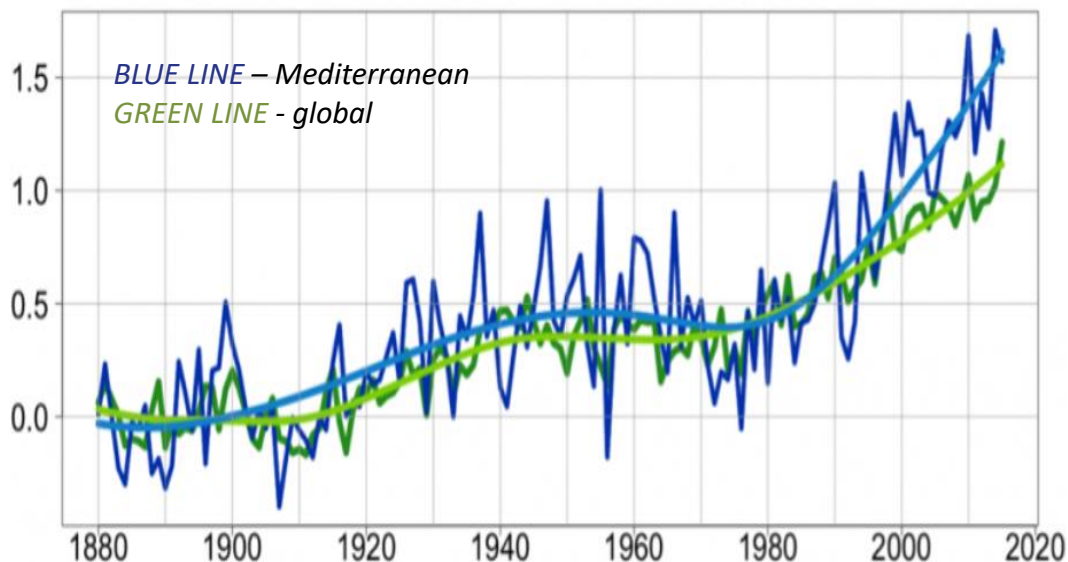


UNEP/MAP
regional centre
for coastal
management

MEDITERRANEAN AS A HOT-SPOT OF CLIMATE CHANGE

Future regional average warming will **exceed the global mean value by 20% on an annual basis and 50% in summer** (*MedECC MAR1 report*).

Mean temperature anomalies (*MedECC, 2019*)



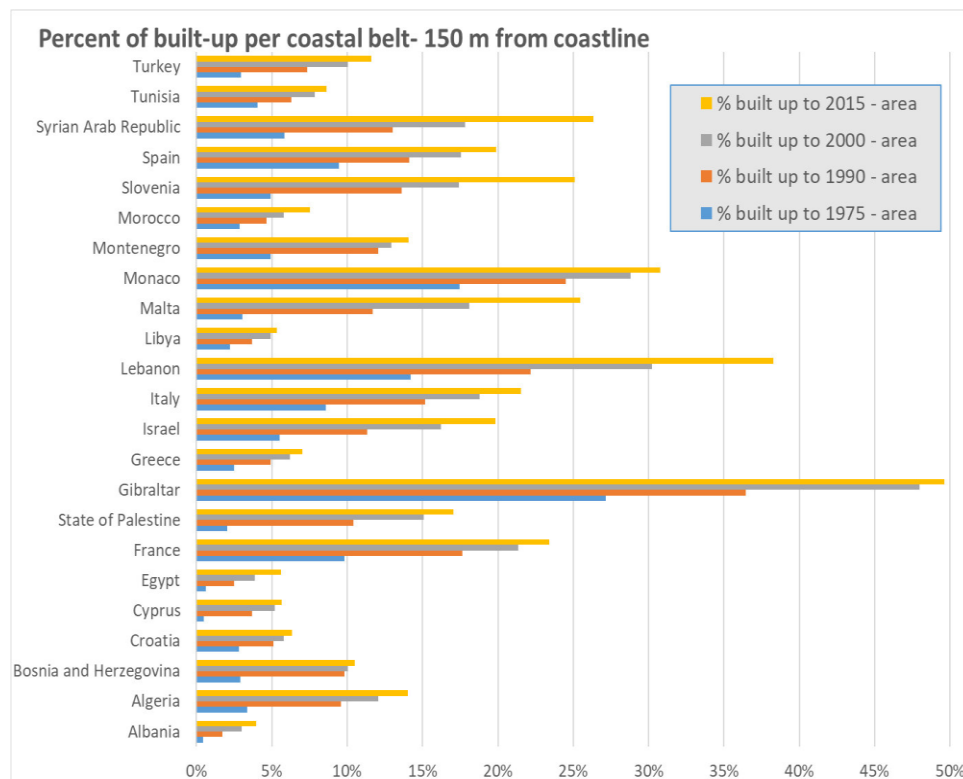
MEDITERRANEAN COASTS AS A HOT-SPOT OF CLIMATE CHANGE

MedECC (2024)

Sea level rise: Mean sea level in the Mediterranean has risen at about 1.4 mm yr⁻¹ during the 20th century and has accelerated to about 2.8 mm yr⁻¹ in the last three decades. At the end of the 21st century, the Mediterranean mean sea level is projected to likely increase 0.6-1.0m relative to present under the very high greenhouse gas emission scenario.

Coastal Floods: The frequency of an extreme sea level event that occurs one in a 100 year is likely to increase 65% by the end of the 21st century under the very high greenhouse gas emission scenario.

UNEP GRID (2017)



ICZM Protocol – a policy tool to mainstream climate change into ICZM



- First international legal basis for coastal management
- Entered into force in 2011, ratified by 13 Mediterranean countries + EU
- PAP/RAC, one of the 8 regional centres of UNEP's Mediterranean Action Plan, is supporting the Mediterranean countries to implement the Protocol





ICZM Protocol – a policy tool to mainstream climate change into ICZM



ARTICLE 5 OBJECTIVES OF INTEGRATED COASTAL ZONE MANAGEMENT

*(e) prevent and/or reduce the effects of natural hazards **and in particular of climate change**...*

ARTICLE 8 PROTECTION AND SUSTAINABLE USE OF THE COASTAL ZONE

ARTICLE 18 NATIONAL COASTAL STRATEGIES, PLANS AND PROGRAMMES

ARTICLE 22 NATURAL HAZARDS

*(Parties) shall undertake vulnerability and hazard assessments of coastal zones and take prevention, **mitigation and adaptation measures to address the effects of natural disasters, in particular of climate change.***

ICZM Protocol – a policy tool to mainstream climate change into ICZM



Article 18: NATIONAL COASTAL STRATEGIES, PLANS AND PROGRAMMES

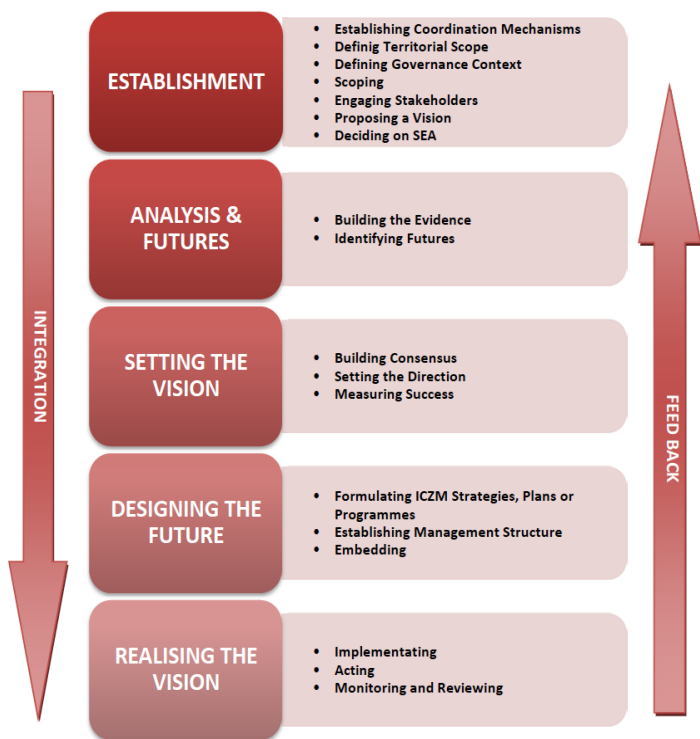
.. Each Party shall further strengthen or formulate a **national strategy for integrated coastal zone management** and **coastal implementation plans and programmes** ...

- First Coastal Plan according the ICZM Protocol developed 2015 and **adopted in 2016**.



- **Mediterranean Climate Change Adaptation Award**, received at ECCA Lisbon 2019, in competition of 28 projects from 9 countries

ICZM Process



https://www.coastalwiki.org/wiki/PEGASO_participation_methods

- ✓ Spatial development and transportation
- ✓ Water supply and wastewater
- ✓ Waste management; ✓ Sustainable tourism
- ✓ Marine environment; ✓ Governance

CLIMATE
CHANGE

Expert knowledge



Highly participatory in nature!



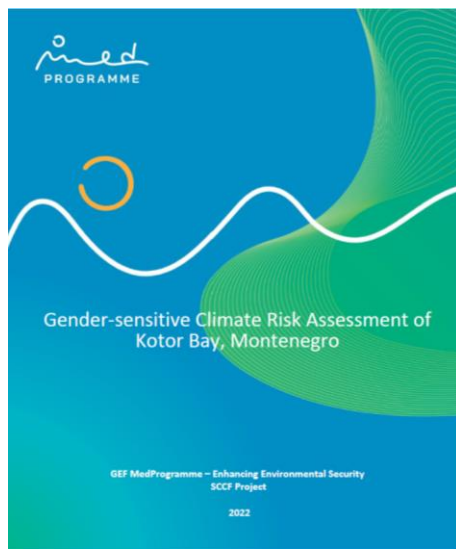
Governance mechanisms





Climate Risk Assessment

Drought areas+forest fires



Precipitation SLR impact in the area





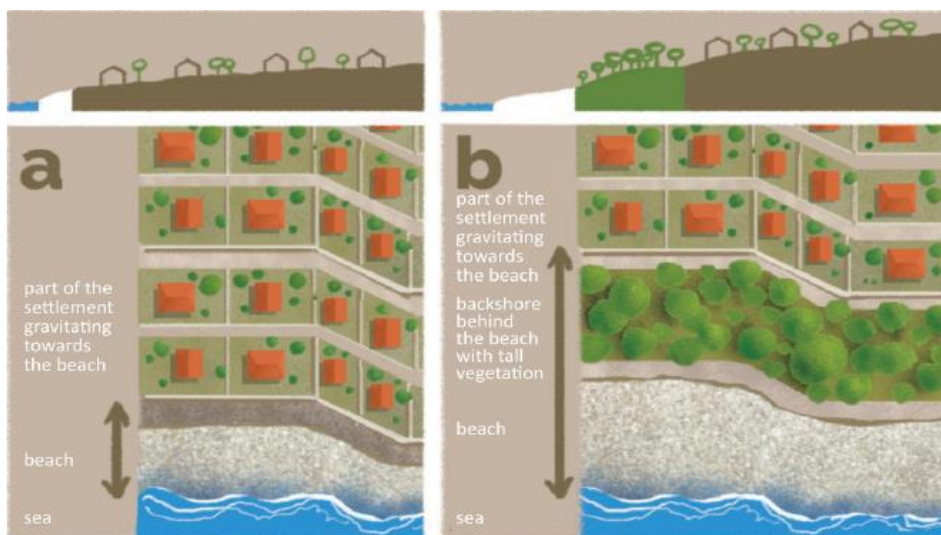
Climate impacts in the area



Bokanews.me

Recommendations of adaptation measures (i)

Implementation of the coastal setback zone



L. Duplančić



ARTICLE 8

Parties (shall) establish in coastal zones, as from the highest winter waterline, **a zone where construction is not allowed.**

Taking into account, *inter alia*, the areas **directly and negatively affected by climate change and natural risks**, this zone may not be less than 100 meters in width

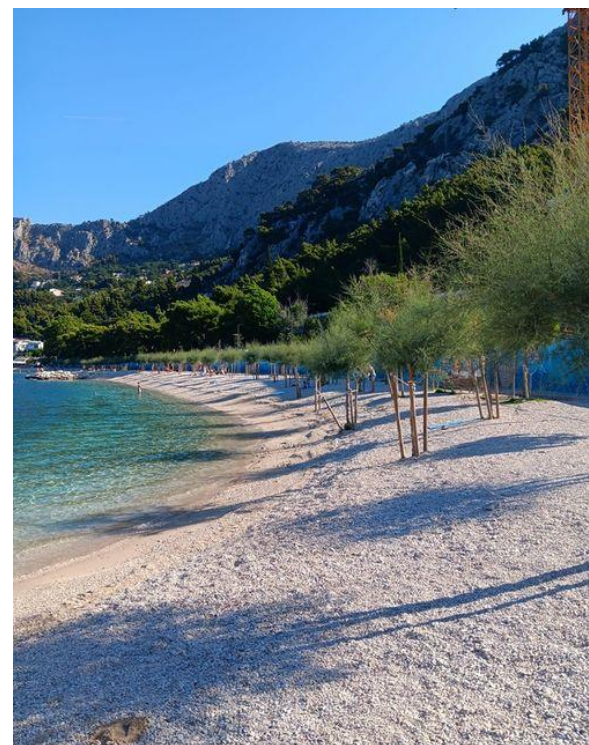


Reccomendations of adaptation measures (ii)

Coastal afforestation and protection of coastal forests



I. Belamarić





Reccomendations of adaptation measures (iii)

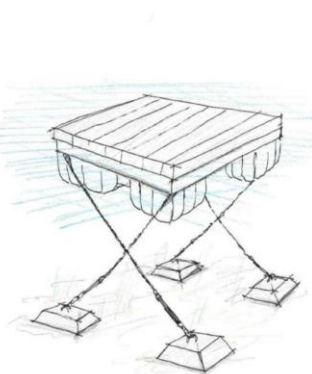
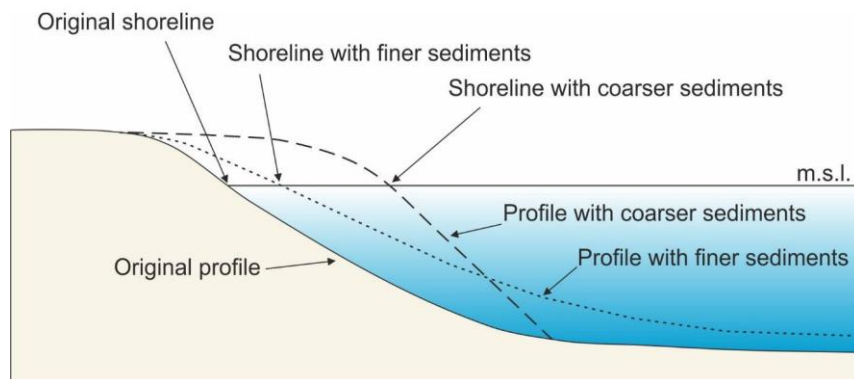
Measures for flood protection

- ✓ Regulation, cleaning and maintenance of flood channels
- ✓ Maintenance and construction of flood and erosion protection facilities
- ✓ Afforestation of degraded areas in the hinterland



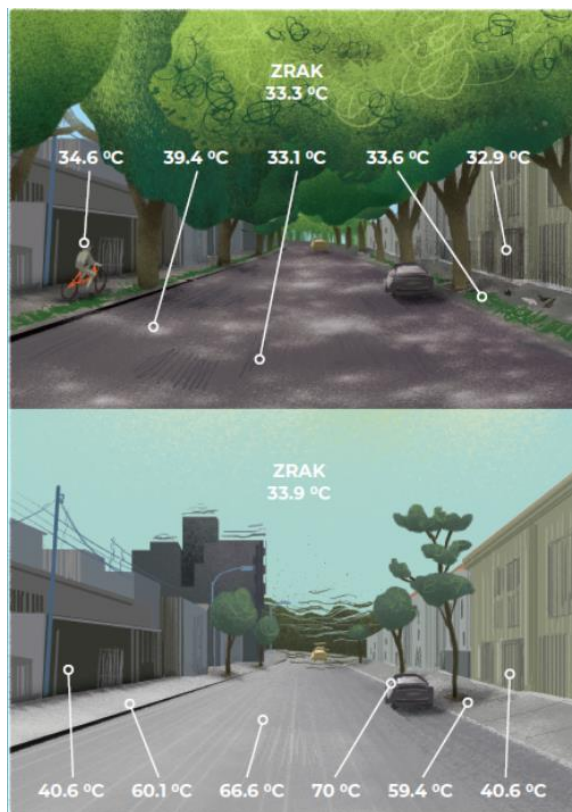
Reccomendations of adaptation measures (iv)

Adaptation of beach areas with minimal environmental impact



Recommendations of adaptation measures (v)

Measures for urban greening



- ✓ Preserve existing and create new green areas
- ✓ Greening of grey infrastructure
- ✓ Green roofs and walls
- ✓ Reduction of impermeable surfaces
- ✓ Better management of green areas





Recommendations of adaptation measures (vi)

Measures for urban greening



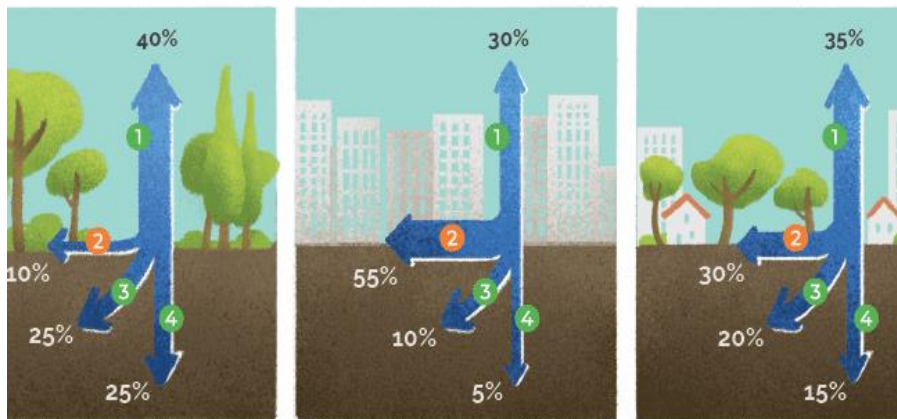
I. Sekovski

- ✓ Preserve existing and create new green areas
- ✓ Greening of grey infrastructure
- ✓ **Green roofs and walls**
- ✓ Reduction of impermeable surfaces
- ✓ Better management of green areas



Reccomendations of adaptation measures (vii)

Water-sensitive urban designs



L. Duplančič



I. Sekovski

Recommendations of adaptation measures (viii)

Adaptation measures related to marine environment

- ✓ Controlled capture of certain species that are new to the Adriatic Sea
- ✓ Adaptation measures in mariculture sector
- ✓ Protection of benthic communities



Blue crab in a trap - source: <https://www.zastita-prirode-dnz.hr>



Eco-friendly buoy- from Interreg SASPAS project

Climate action through marine spatial planning (MSP)?

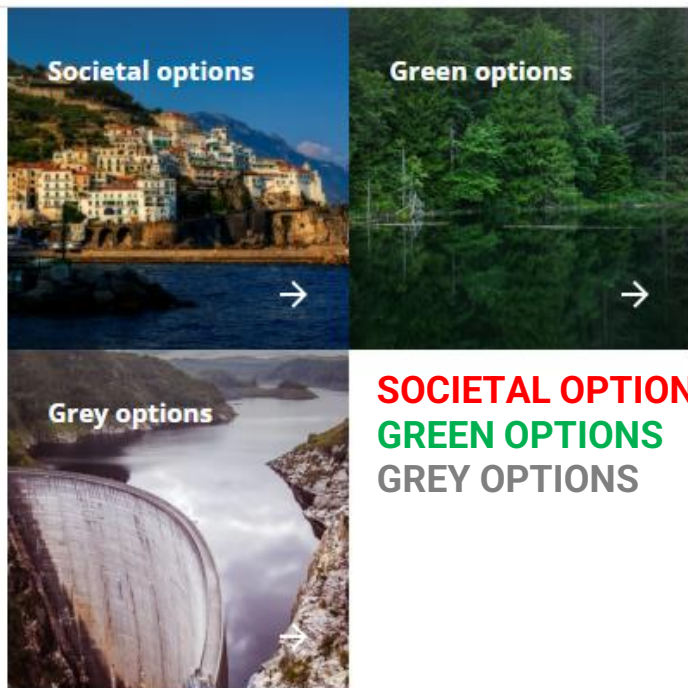


<https://msp.iczmplatform.org/core-themes/climate-action/>



AdriAdapt platform (adriadapt.eu)

More than 40 adaptation options and 11 case studies



Managed retreat of the coastal state road Koper-Izola (Slovenia)

Restored coastal wetland in Škocjanski zatok (Slovenia)

Coastal Zone Management Plan for the city of Kaštela (Croatia)

Dune restoration projects near Bevano river mouth and in Bellochio area (Italy)





AdriAdapt platform (adriadapt.eu)

Guidelines and handbooks



Coastal Resilience
Handbook
for the Adriatic



Next steps – from AdriAdapt to **MedAdapt?**



Why to address climate resilience with Coastal Management Plans?

Holistic climate risk management - climate pressures (sea-level rise, erosion, flooding, salinity intrusion) do not respect sector boundaries, can only be addressed in an integrated way;

Promotes co-benefit solutions (e.g. co-benefits of ecosystem-based solutions not only in climate change mitigation/adaptation, but also in biodiversity enrichment and improvement of livelihood) **and efficiency** through avoiding duplication of efforts across ministries and projects

Avoiding fragmented responses through strengthening governance to ensure coordination between sectors (fisheries, ports, tourism, environment) and between different levels of governing (local, regional, national), shared responsibilities, and **participatory decision-making** („ownership”)

Integration avoids maladaptation - sector-specific/short-term measures (e.g., building hard seawalls everywhere) may protect one area but worsen erosion or flooding elsewhere.

Highlights prioritization!

PLAN PRILAGODBE ZA PILOT PODRUČJE RIJEKE JADRO

Final Version of 30/12/2021

Deliverable Number D.5.3.2.



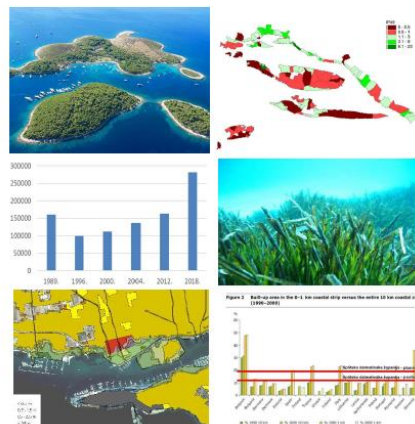
Coastal Plan
for the Šibenik-Knin County:

A Road to Resilience



Plan upravljanja morskim okolišem i obalnim područjem Splitsko-dalmatinske županije (Obalni plan SDŽ)

(s Akcijskim planom za provedbu i razvojnim projektima za financiranje u sljedećem višegodišnjem financijskom okviru 2021.-2027.)



What next? Guidelines for coastal plans to be prepared under the GEF MEDprogramme by March 2026



EUSBSR
EU STRATEGY
FOR THE BALTIC
SEA REGION



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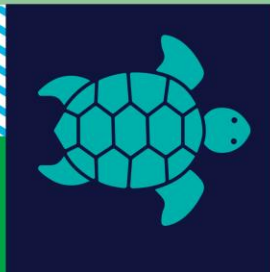
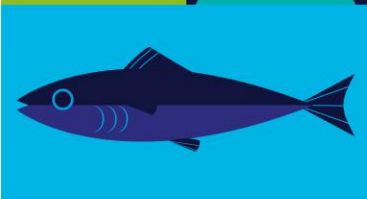
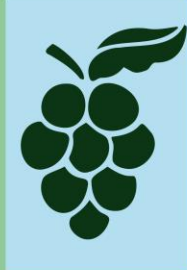
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INSPIRING IMPACT

Mediterranean institutions
for coastal resilience





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Thank you!

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EU Strategy for the
Adriatic and Ionian Region
EUSAIR

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REPUBLIC OF SLOVENIA
**MINISTRY OF FOREIGN
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AND REGIONAL DEVELOPMENT**



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AND SPATIAL PLANNING**



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IZOLA · ISOLA



Prosperity through Diversity



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THE ALPINE REGION



**Primorski
Tehnološki
Park.**

