







Harmonization and **N**etworking for contaminant assessment in the lonian and Adriatic Seas

ADRION HarmoNIA Final event & ADRION Thematic Cluster on Coastal and Marine Environment management activities Supporting MSFD, MSP and Protocols of Barcelona Convention 18th June 2020.

Evaluation of coastal vulnerability to marine pollution dispersion on HarmoNIA Geoportal Strategy for risk assessment

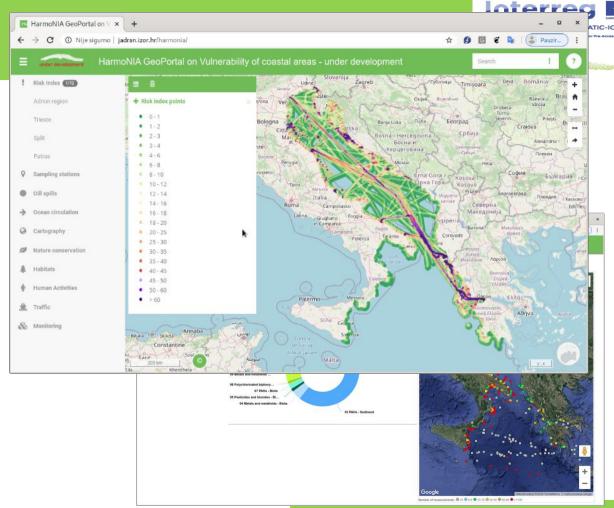
Institute of Oceanography and Fisheries, Split, Croatia

Damir Ivanković, Ivan Vučić



Introduction

- Focus on online products
- Products avaliable after formal ending of project
- Source of information
- Stakeholders, scientists and general public

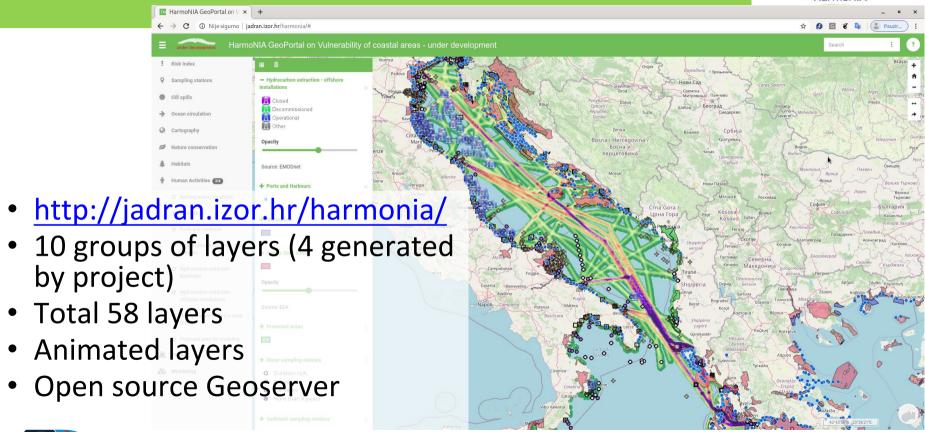




HarmoNIA Geoportal



HarmoNIA



Layers Origin

- ADRION ADRIATIC-IONIAN
 European Regional Development Fund Instrument for Pre-Accession II Fund
 - HarmoNIA
 - EMODnet
- HAZADR





- HarmoNIA project
- EMODnet
- HAZADR project
- EuropeanCommisson
- EEA

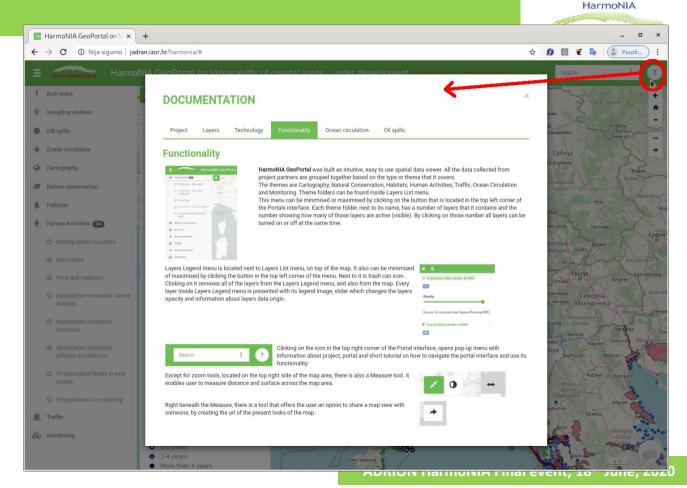


About Geoportal and have to use it

ADRION ADRIATIC-IONIAN

Burupsan Regional Development Fund - Instrument for Pra-Accession II Fund

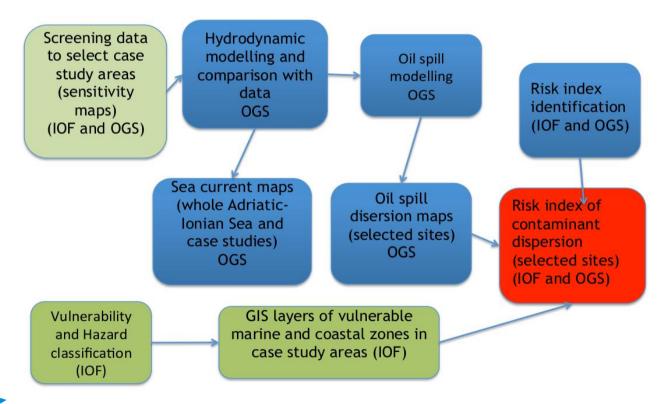
- Help section
- Upper right corner





Methodology used in the oil spill risk assessment



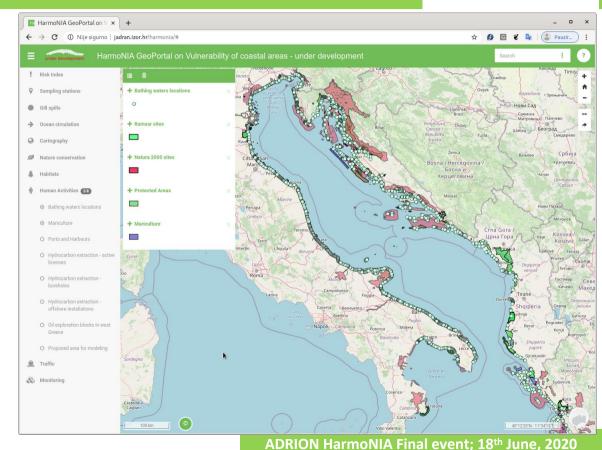




GIS layers of vulnerable marine and coastal zones



- Mariculture
- Protected areas
 - Ramsar sites data
 - Natura 2000 data
 - National data about natural protected areas
- Areas of socioeconomic value
 - Bathing Water Directive



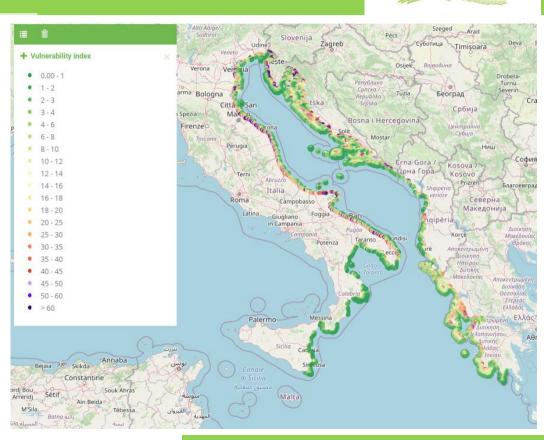


Vulnerability index

ADRION ADRIATIC-IONIAN
European Regional Development Fund - Instrument for Pre-Accession II Fund
Harmonia

- All Natural protected areas (weight factor 1)
 - 100m buffer Index 3 (v1)
 - 3500m buffer Index 2 (v2)
 - 5000m buffer Index 1 (v3)
- Beaches (weight factor 3)
 - 300m buffer Index 3 (v1)
 - 35000m buffer Index 2 (v2)
 - 5000km buffer Index 1 (v3)
- Mariculture sites (weight factor 2)
 - 300m buffer Index 3 (v1)
 - 3500m buffer Index 2 (v2)
 - 5000m buffer Index 1 (v3)

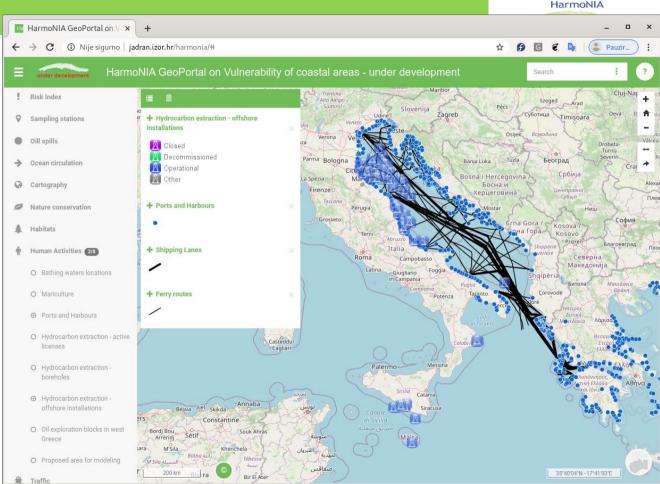
vtot=v1*3+v2*2+v3



GIS layers of oil spill hazard

ADRION ADRIATIC-IONIAN Gurpaen Regional Development Fund - Instrument for Pre-Accession II rund

- Shipping lanes
- Ferry routs
- Ports and harbors
- Offshore platforms





Hazard index

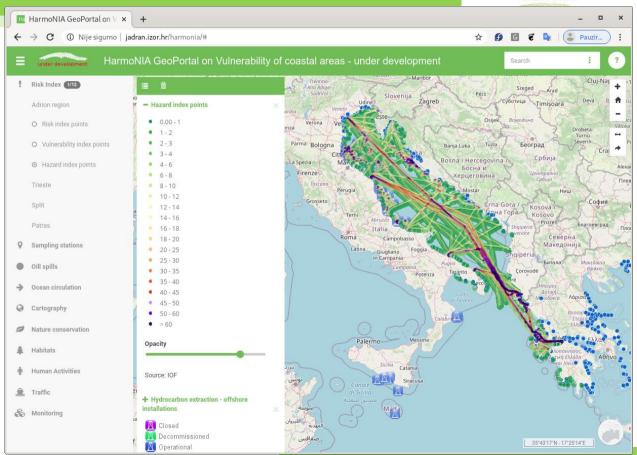
ADRION ADRIATIC-IONIAN

Gurpean Regional Development Fund - Instrument for Pre-Accession II Fund

HarmoNIA

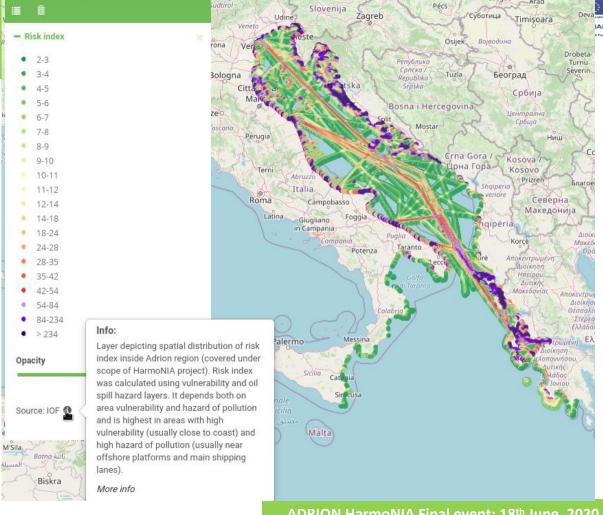
- Shipping lanes (weight factor 4)
 - 2000m buffer Index 3 (h1)
 - 3500m buffer Index 2 (h2)
 - 5000m buffer Index 1 (h3)
- Ferry route (weight factor 1)
 - 2000m buffer Index 3 (h1)
 - 3500m buffer Index 2 (h2)
 - 5000m buffer Index 1 (h3)
- Ports and harbors (weight factor 1)
 - 2000m buffer Index 3 (h1)
 - 3500m buffer Index 2 (h2)
 - 5000m buffer Index 1 (h3)
- Off shore platforms (weight factor 7)
 - 2000m buffer Index 3 (h1)
 - 3500m buffer Index 2 (h2)
 - 5000m buffer Index 1 (h3)

htot=h1*3+h2*2+h3



Risk index

Hazard Index x **Vulnerability Index = Risk Index**

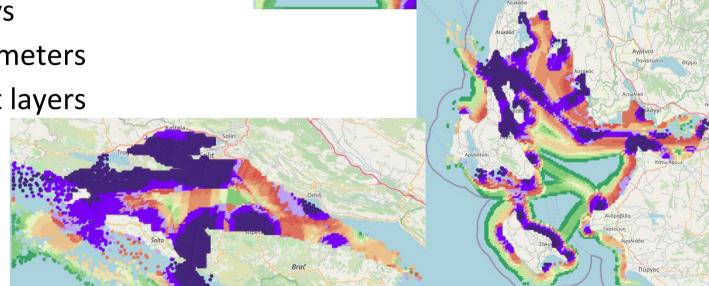




ADRION HarmoNIA Final event; 18th June, 2020

Strategy on risk assessment

- Use of hydrodynamic modeling
- Buffer method
- Hazard and Vulnarebility
- Spatial analysys
- Adoptive parameters
- Accurate input layers
- Operational









Thank you for your attention!

