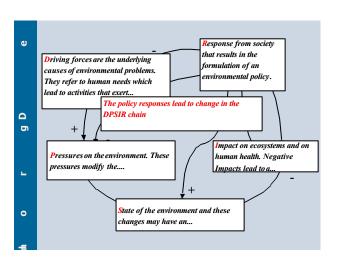
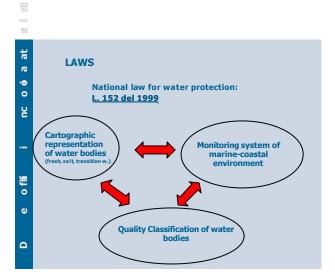


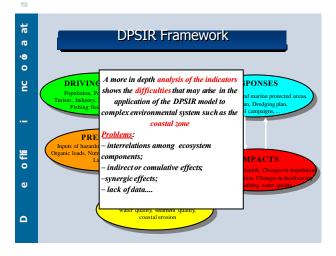
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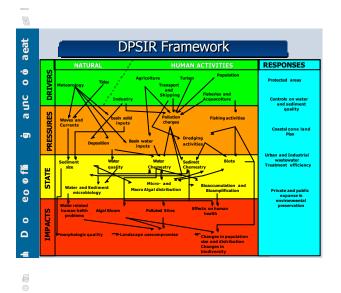


Definition of homogenous coastal areas in the framework of the classification of the Ligurian coastal waters





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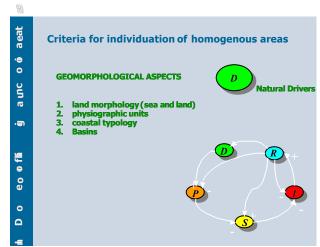
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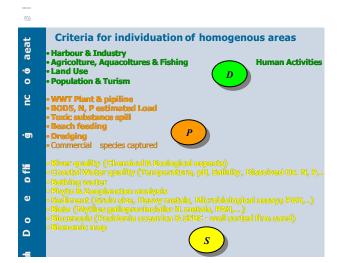
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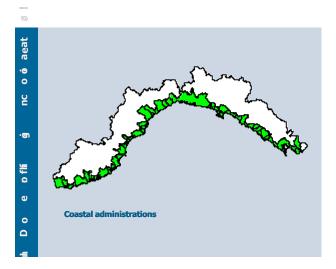
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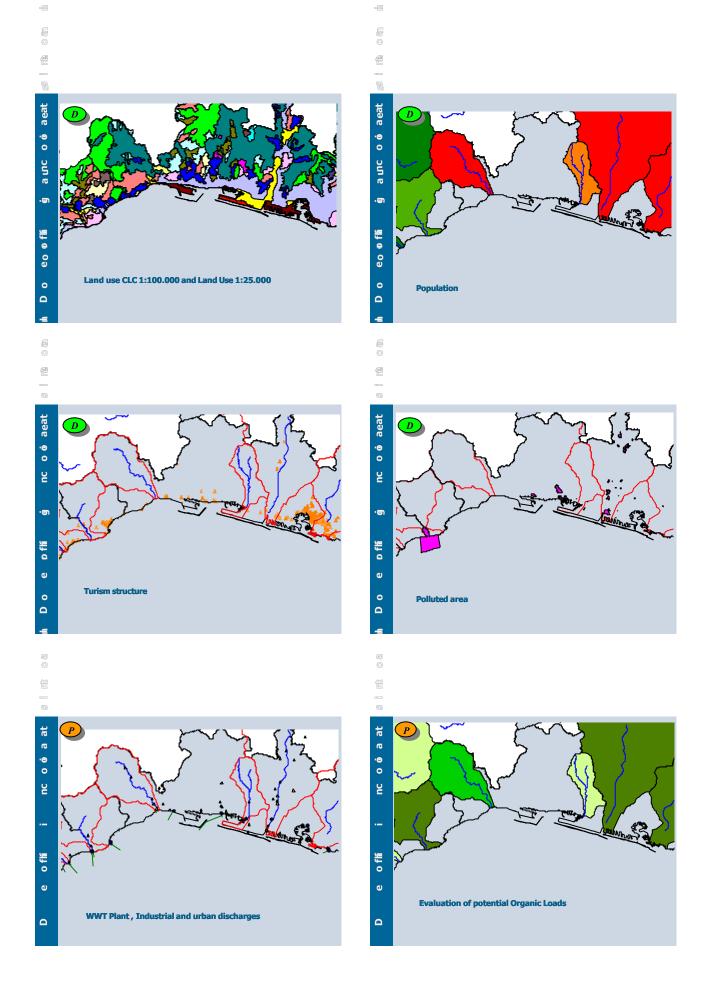
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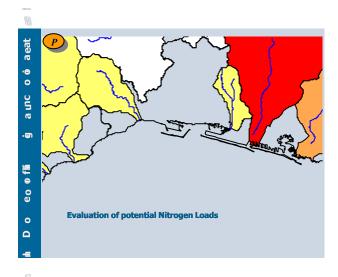






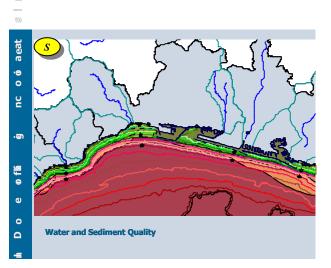






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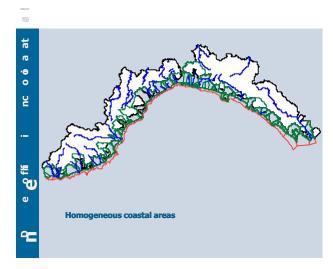
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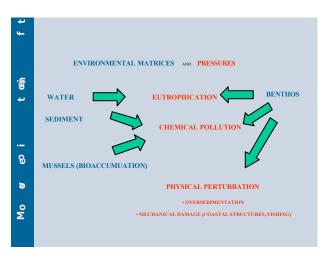
60		
at		Main Indicators
æ	<u>Drivers</u>	
	Urban areas and Land Use	km2
.0	Industrial activities	number of installations/per industry type
- 7	Polluted areas	km2
0	Agricoltural activities	km2
	Zootechnical activities	km2
O	Aquacultures	km2
읟	Fishing	number of fishing ships per harbour* year-1
	Harbours	number
	Turism structures and turists	number of turists and structures
	Population	number
	Pressure	
	Toxic substances spill	number of spills occurrence.year-1
	Commercial species captured(fish and bait)	t/year
	Dredging	t/year
	Dredged material disposal	t/year
Comm.	Nutrient Loads	t/year
ff	Organic loads	t/year
0	Maritime traffic	passenger (N/year), goods(t/year), Oil(t/year)
٥	State	
	TRIX	
a)	CSQI	
	bionomic map	
	bathing water	MPN
	Impact	
	bathing water	positive bathing quality (%)
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Monitoring of the marine and coastal environment by the Regione Liguria



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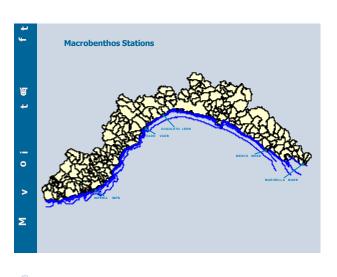


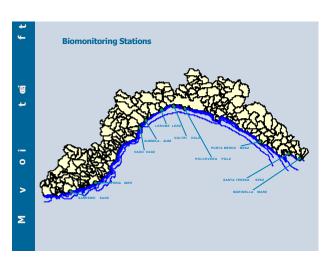
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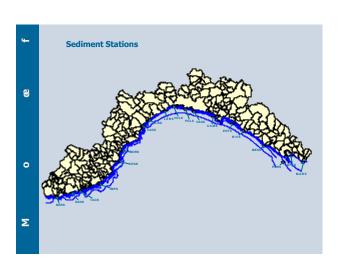
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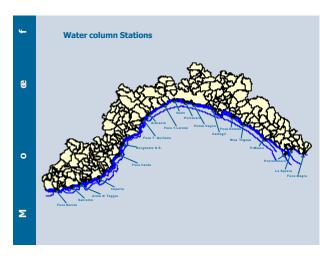
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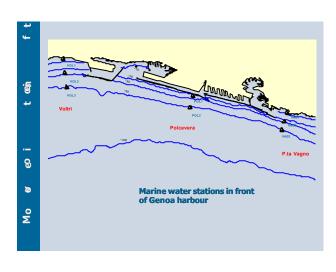
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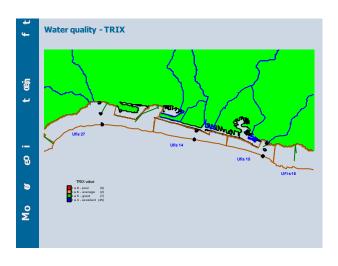


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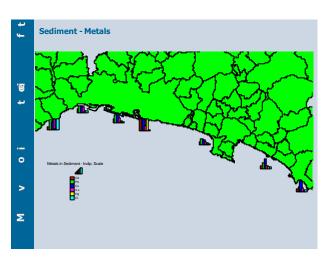
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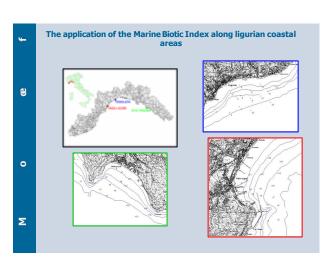
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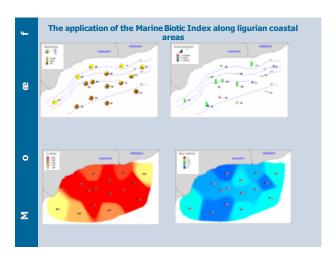
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AMBI software results for Cogoleto, Riva Trigoso and Vado Ligure

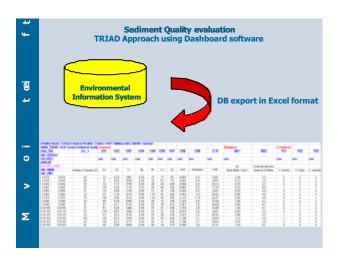
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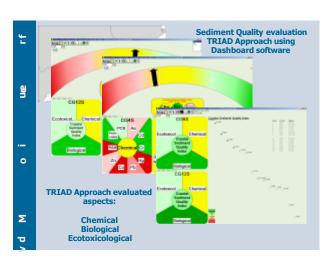
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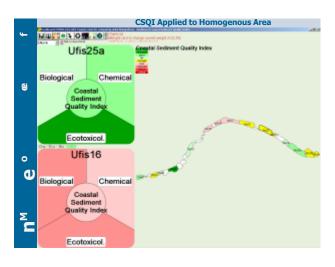
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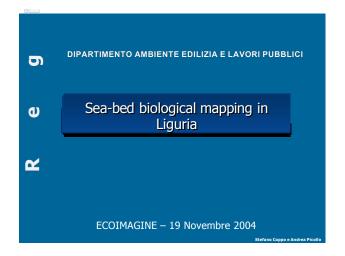


Cleaning the Sea project

Surface activities along beach and harbour

Sea bottom
Depth 0 - 50 m
Scuba

Sea bottom
Depth - > 50 m
Trawler



THE BIONOMIC MAP PROJECT

Regione Liguria

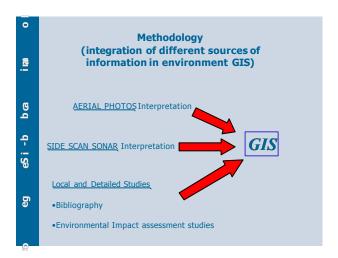
Settore Opere Marittime ed Ecosistema Costiero
Settore valutazione di impatto Ambientale
Settore Parchi ed Aree Protette

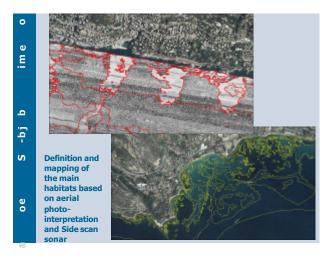
SEA-BED BIOLOGICAL MAPPING
THE BIONOMIC MAP
(Scale 1:10.000)

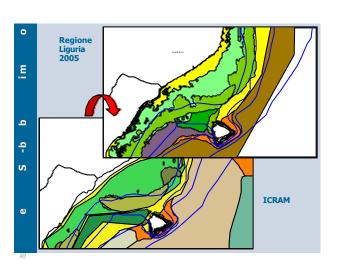
SCOPE AND PRACTICAL USE

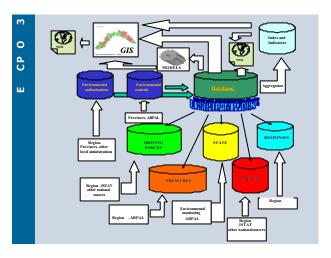
> ICZ MANAGEMENT AND PLANNING
> ENVIRONMENTAL IMPACT ASSESSMENT
> MONITORING OF THE COASTAL ECOSYSTEM

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## **Conclusions**

The DPSIR approach is very important to apply environmenta management measures following the integration principle (environmental, economic and social aspects)

The collection of environmental data in marine environment is very important, but expansive: we need statistical coeff. and models to evaluate drivers - pressure - state interactions and to define guidelines and instrument for Marine ecosystem risk assessment.

The GIS and monitoring activites integrated with DPSIR framework (project ECO3) will be a good Decision Support System for coastal zone management

## **Contacs**

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## Web

www.regione.liguria.it www.azti.es esl.irc.it/envind/dashbrd.him

Thanks for your attention