

Workshop Mercoledì 28 Aprile 2015

CNR Area della Ricerca di Bologna - via P. Gobetti, 101 - Bologna - Sala 216

**LA RISORSA SABBIA OFFSHORE PER  
IL RIPASCIMENTO COSTIERO**

**Linee guida per la ricerca  
e sistemi informativi per un corretto  
utilizzo (in\_Sand) e monitoraggio  
ambientale (env\_Sand)**

**Iniziative europee e mediterranee per una strategia  
sostenibile nell'uso dei depositi sabbiosi marini: la Carta di  
Bologna ed il Joint Action Plan (P.Lupino - Regione Lazio)**

**Sand engine in Holland : 17 million of m3**



## **Huge beach-nourishments in North Europe**

28/04/2015

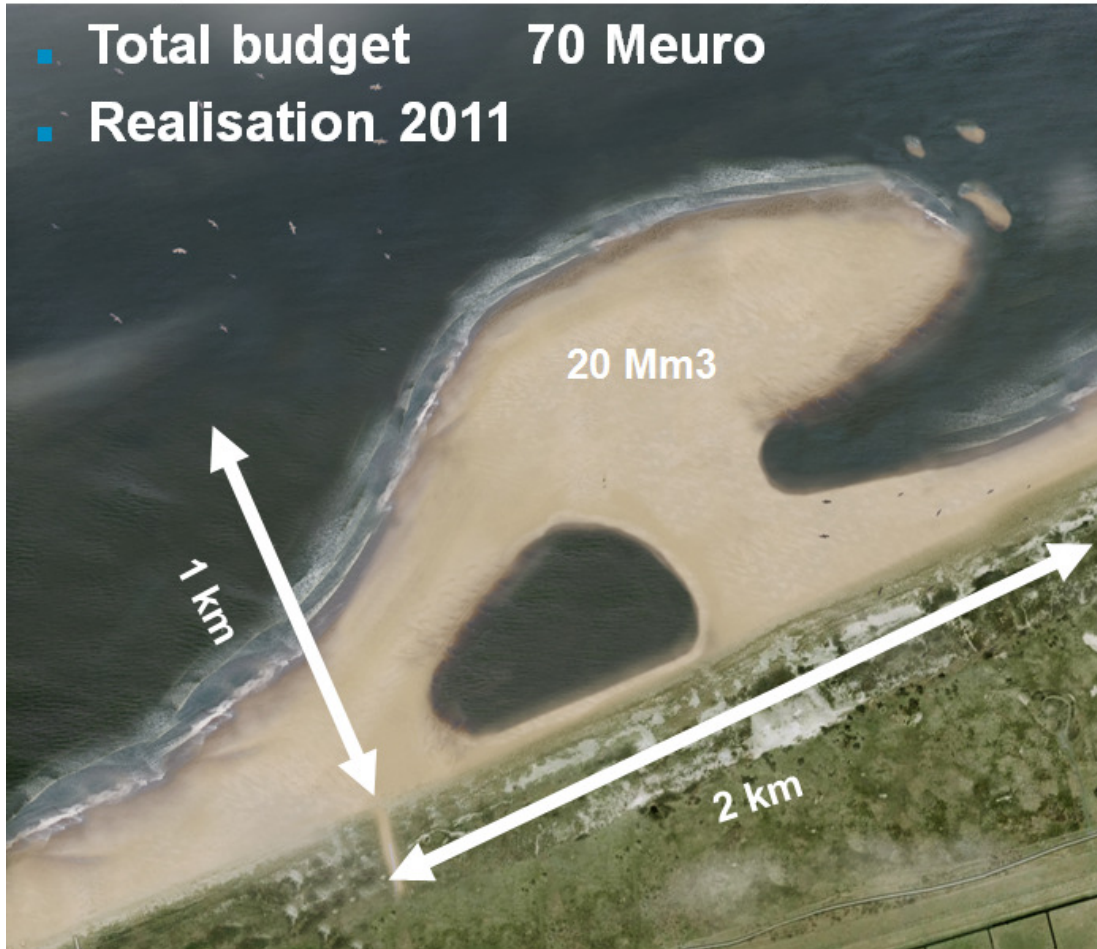
Ing. Paolo Lupino - Regione Lazio ARDIS

**Sand engine in Holland : 17 million of m<sup>3</sup>**

- Surplus of sand, distributed by tide/waves/wind

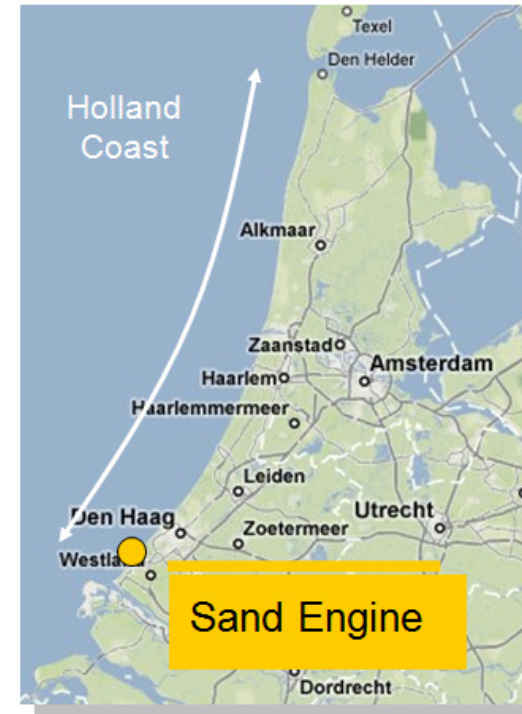
- **Total budget 70 Meuro**

- **Realisation 2011**



RESMAR\_2011\_Pisa

20



**Deltares**

**Huge beach-nourishments in North Europe**



RESMAR\_2011\_Pisa

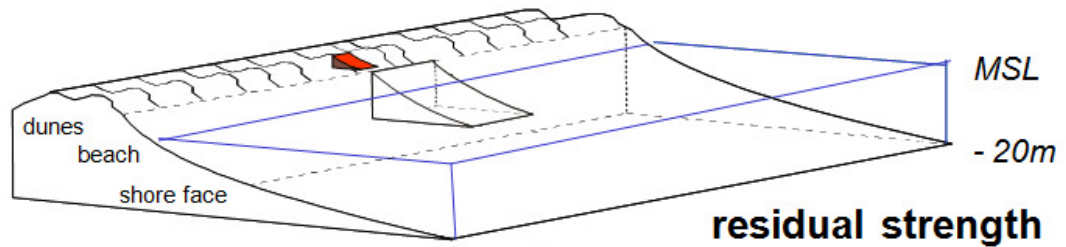
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## Deltares

# Dutch Soft defence strategy

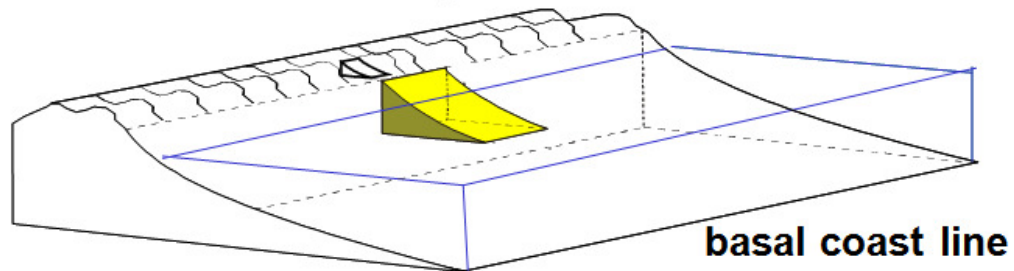
dunes

days / meters



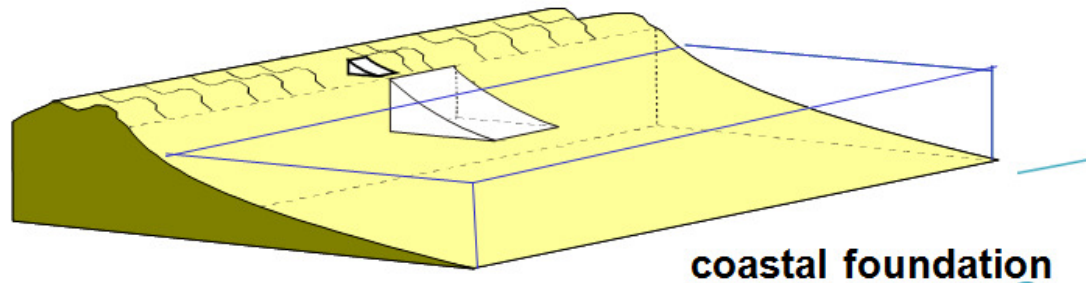
coastline

years / kilometres



coastal foundation

decades – centuries /  
10's – 100's km



## Dutch Soft defence strategy

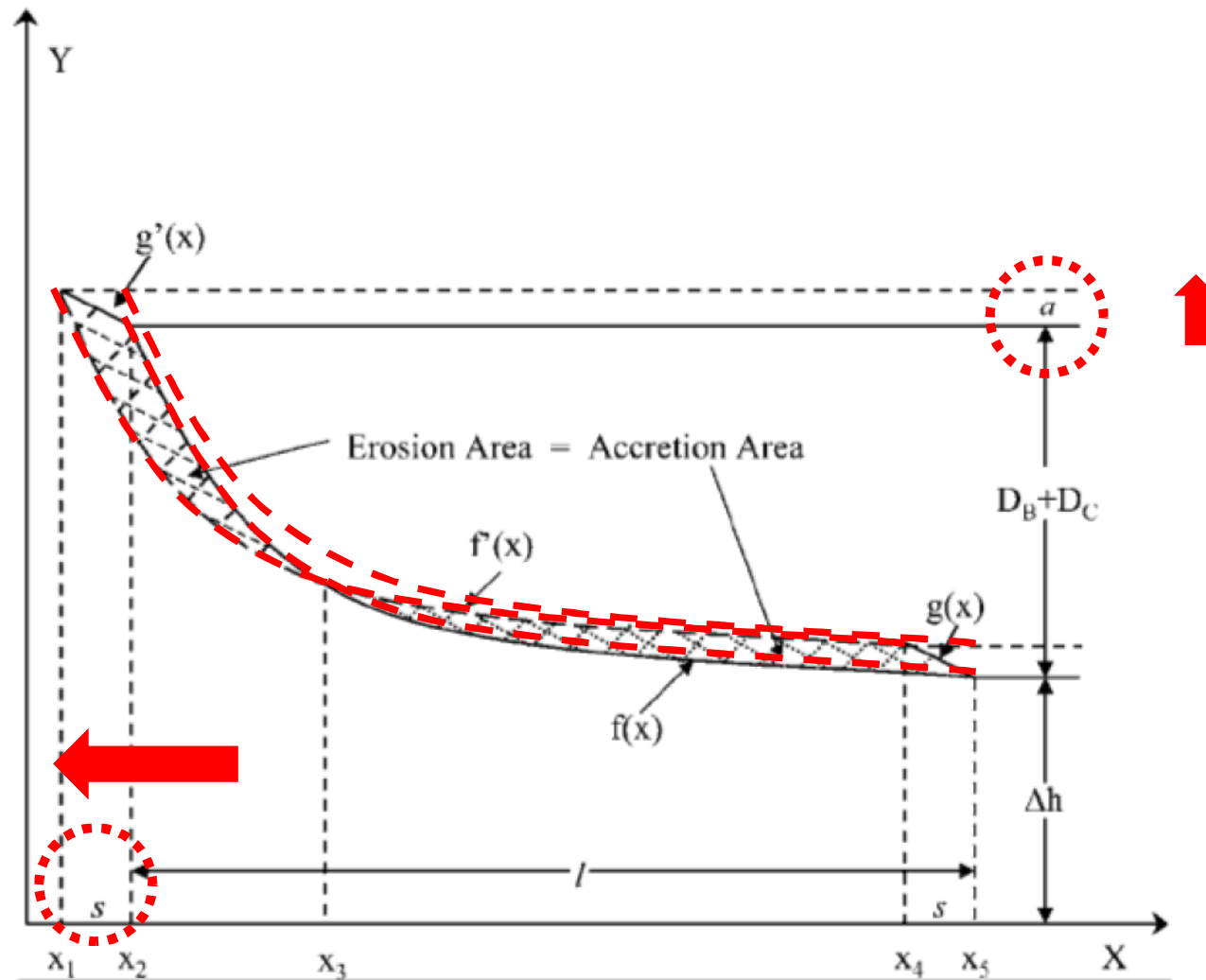


Figure 1. Active cross-shore beach profile geometry for derivation of the two-dimensional Bruun rule of beach erosion.

**$s = 50-100 a$  (e.g.:  $a = 10 \text{ cm}$ ,  $s = 5-10 \text{ m}$ ,  $V_e = 35-100 \text{ m}^3$ )**



Impacts of climate change in coastal systems in Europe. PESETA-Coastal Systems study

Dr Julie A. Richards & Prof Robert J. Nicholls

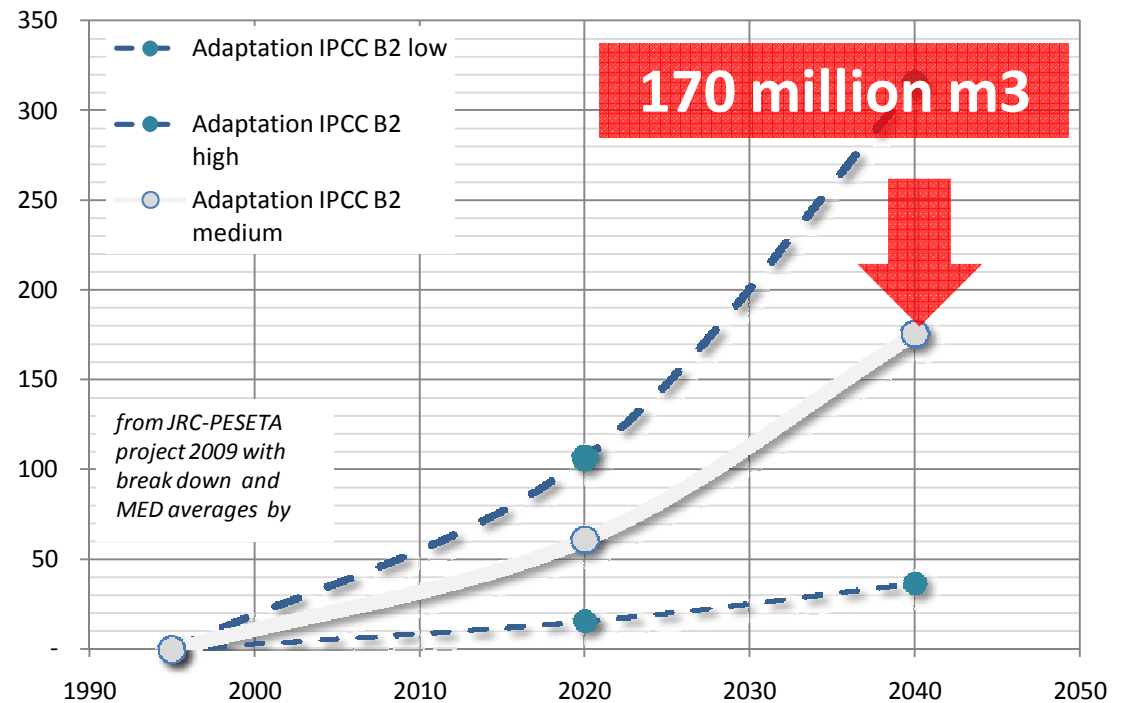


EUR 24130 EN - 2009

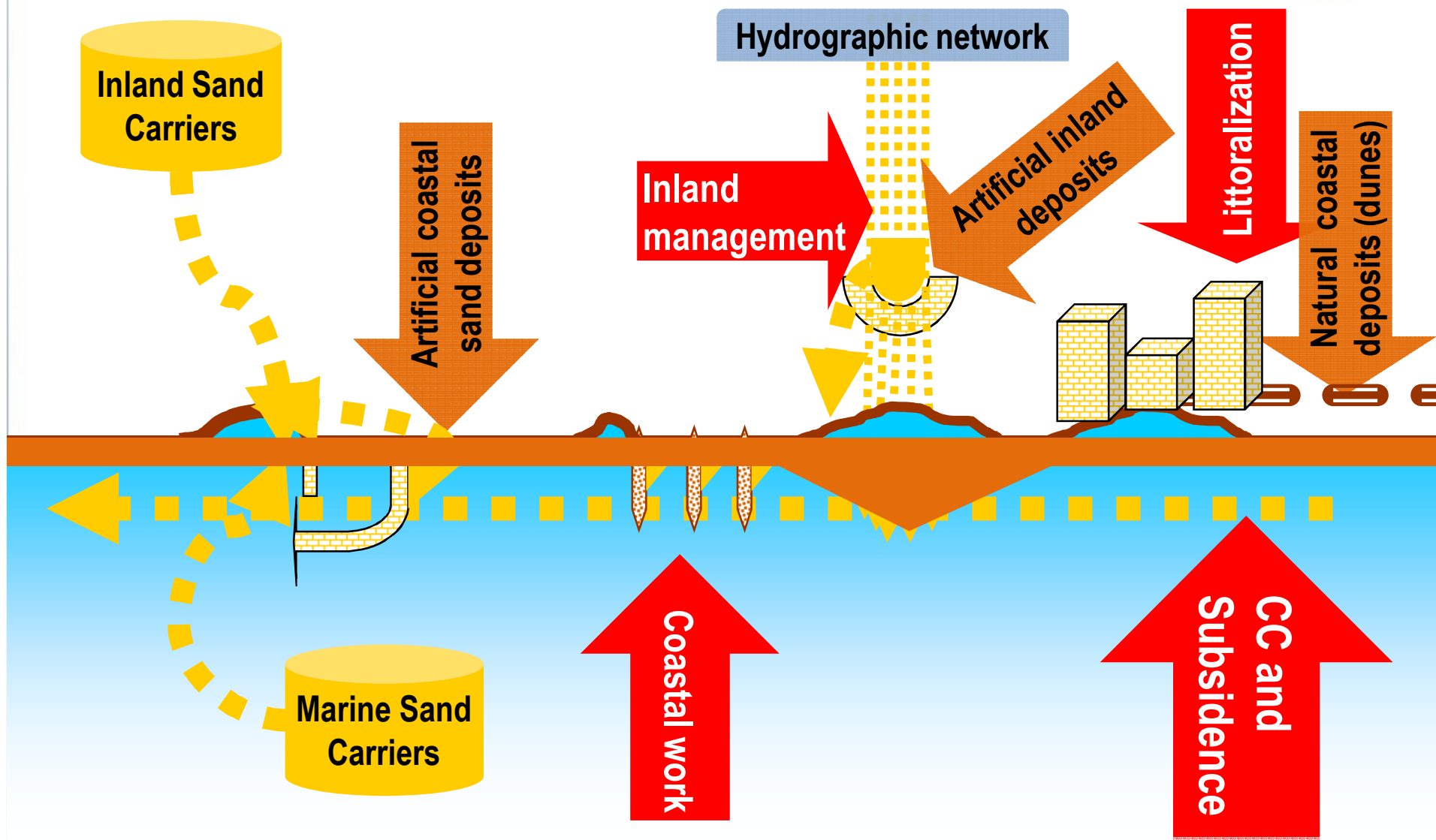


ADAPTATION TO CC FOR MEDITERRANEAN EU COUNTRIES

3. Beach nourishment volumes (Millions m<sup>3</sup>)

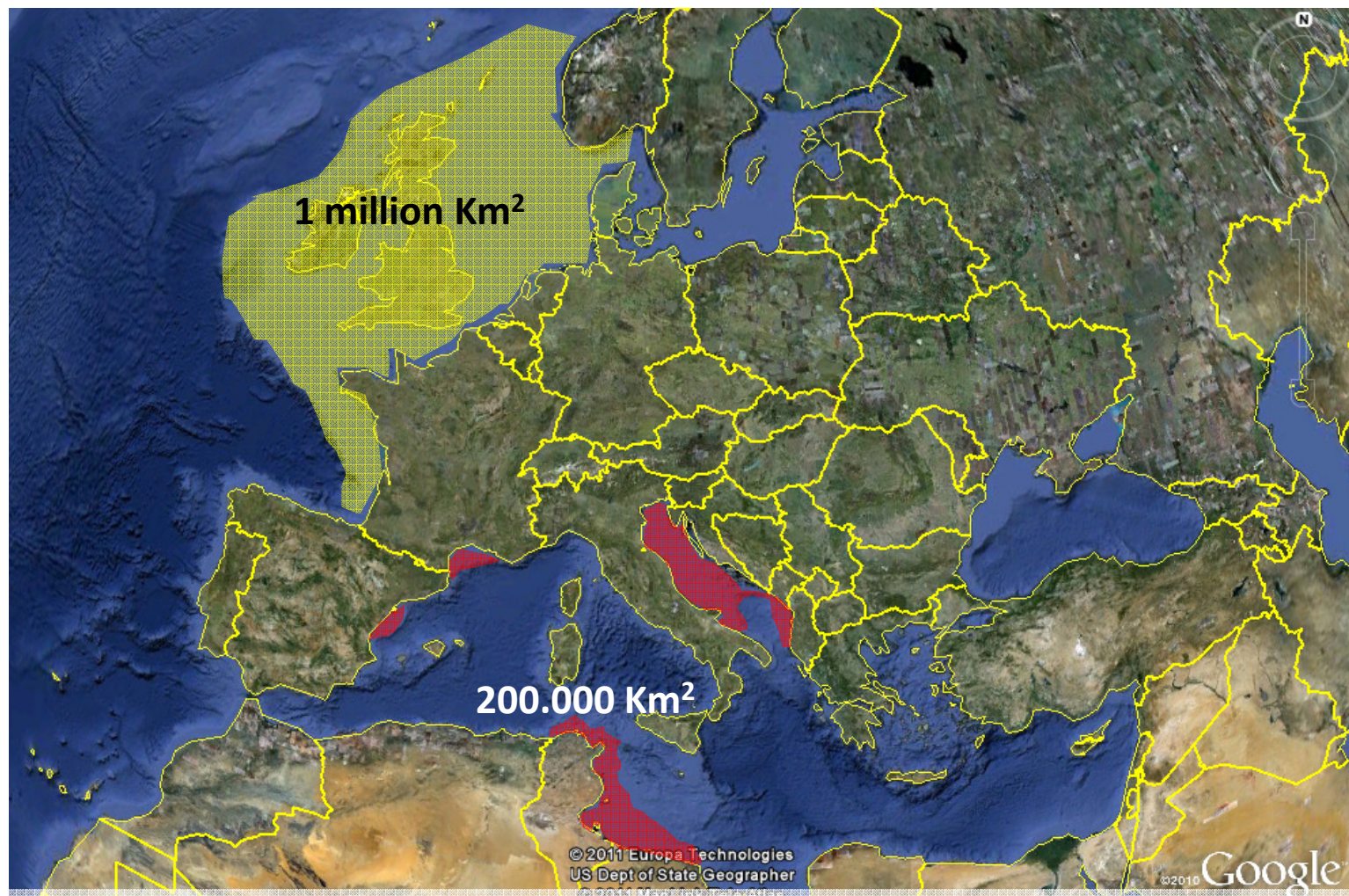


170 Mil m<sup>3</sup> of MED-EU beach nourishment before 2040



## Cause di Erosione e Possibili Risorse





## Small extension of the MED continental shelf

<http://bolognacharter.facecoast.eu/>

2007



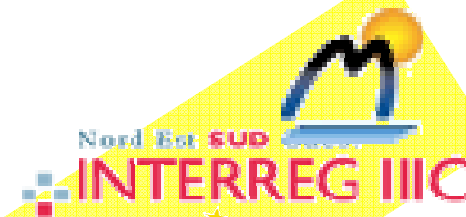
**BOLOGNA CHARTER.eu** 2012  
European regions Charter for the promotion of a common framework for strategic actions aimed at the protection and sustainable development of the Mediterranean coastal area



1st of March 2013. The Bologna Charter was signed during the MAREMED day

## 25 MED Coastal Administrations (NUTS1/2/3)

12 years of cooperation between more than 15 MED Regions, 40 Universities and Research Institutes engaged, 6 projects and 12 BPs currently shared throughout three European programmes!



**Weaknesses:**

1. tricky coordination
2. waste of resources
3. too short terms
4. lack of steadiness



*“Regional action strategies for coastal zone adaptation to climate change”*



*“Maritime Regions cooperation for Mediterranean”*

28/04/2015



**Face the Challenge of Climate Change in the MED coastal zones**

Memorandum of Understanding  
**FACECOAST**  
**“FACE THE CHALLENGE OF CLIMATE CHANGE IN THE MED COASTAL ZONES”**  
Cluster constitution/implementation  
Between

COASTANCE European Project  
Represented by the Lead Partner

MAREMED  
Represented by the Lead Partner

- Having regard to the MED European programme a capitalisation initiatives, the Programme itself w to reach coherence, to multiply effects through s

COASTANCE European Project  
Represented by *Lead Partner*  
*(Pantias Christos)*

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## WELCOME TO FACECOAST

"Face the challenge of climate change in the med coastal zones"

**THE BOLOGNA CHARTER AND THE JAP AT THE JOINT MEETING OF EC EXPERT GROUPS ON ICM & MARITIME SPATIAL PLANNING**

**Brussels (BE), 21-22nd April 2015.** The CPMR, as member of the EC Expert Group on ICM and MSP, is giving communication at the Joint Meeting in Brussels on the Bologna Charter Joint Action Plan (JAP), delivered in the frame of COASTGAP project, with the aim of:

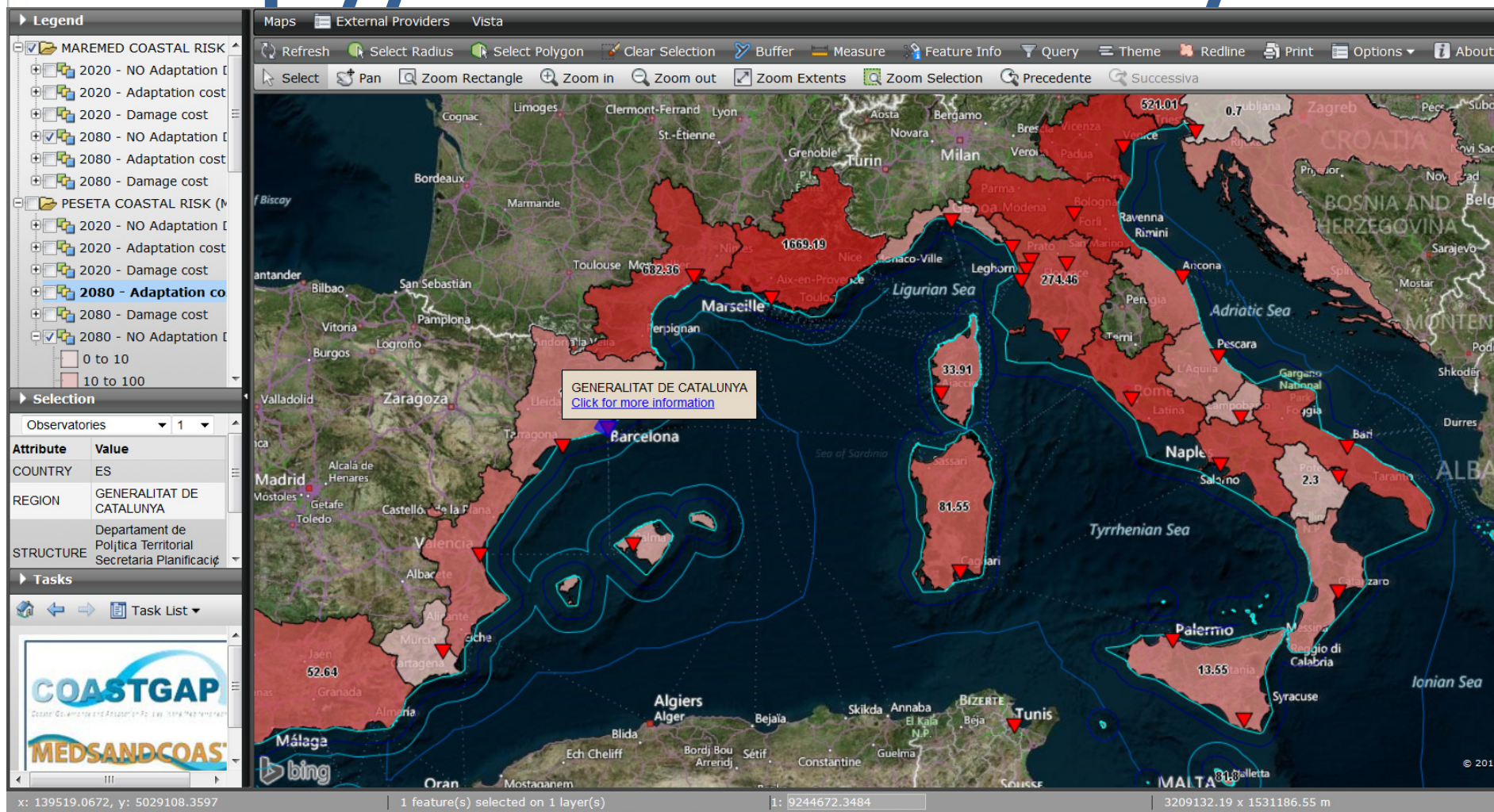
- raising awareness on issues related to Med coastal zones management/defence/adaptation;
- requesting and contributing to a macro-regional and basin maritime strategy for the Mediterranean Sea;
- involving also the higher levels of National/European/International authorities (already in an advanced phase in IT, GR, F and ongoing in E and HR);
- demanding the definition of tools and financial resources for BC and JAP, as well as the launching of specific project calls.

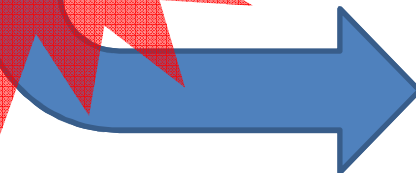
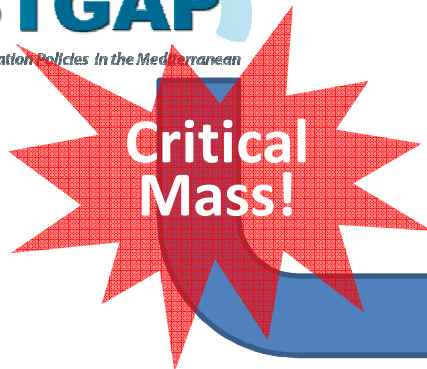
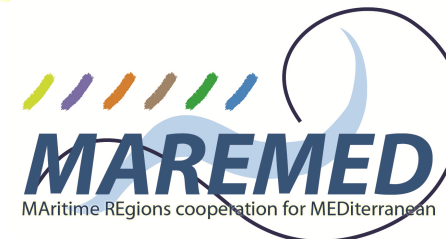
[Agenda of the meeting Expert Groups ICM – MSP 21-22 April 2015](#)

**FINAL ICZM AND CLIMVAR MEDPARTNERSHIP CONFERENCE**

PARTNERS

# http://www.facecoast.eu/





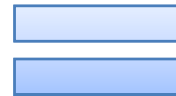
**MACRO-PROJECT**  
*Joint Action Plan+ Major Projects*

## Macro-Project concept

CHAPTER III  
**Joint action plan**  
Article 104

.... or other tools  
(MED  
, H2020, ENI  
CBC, etc.)

**Joint Action Plan  
PLANNING**



**Macro-Project**

CHAPTER II  
**Major projects**  
Article 100

.... or other tools  
(UfM, InfraMED,  
UNEP/MAP, etc.)

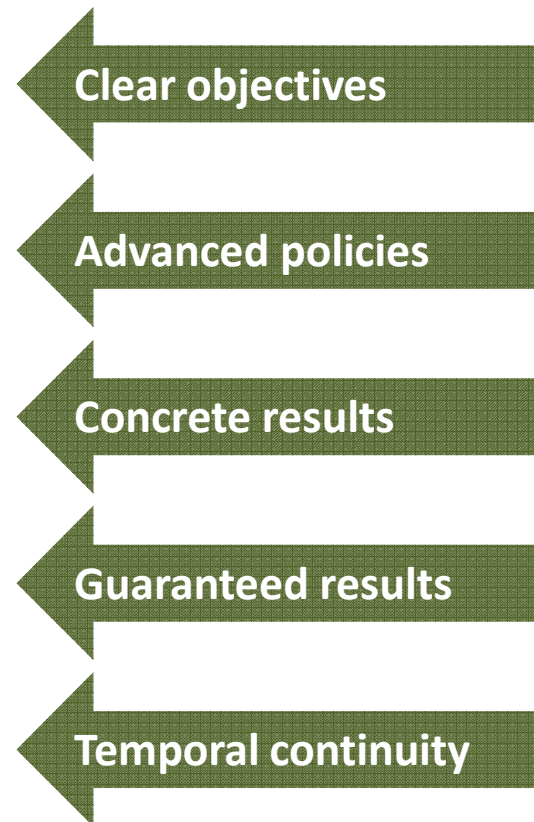
**Major Project  
INFRASTRUCTURE**



## Macro-Project concept

# The Joint Action Plan is an innovative instrument based on these main features:

- ✓ **Structured on few Strategic Theme** (focused on an integrated approach for coastal protection and sustainable growth)
- ✓ **Macro-Region oriented** (focused on macro-regional policies concerning MED basin and its sub-basins)
- ✓ **Territorial approach** (promoted by several coastal MED Administrations at NUTS2/3 level and non EU as well)
- ✓ **Flexible structure** (multi-funded, adaptive layout)
- ✓ **Long lasting structure** (partnership agreement, EGTC)



## Macro-Project concept

**1. Survey and monitoring**

*EURIOMCODE*

**2. Characterization of MED coasts**

*EUROSION-MED*

**3. Resources Research**

*RESAM project*

**4. Environmental assessment**

*ENVICOAST*

**5. New legal tools**

*COASTGOV*

**6. Regional Master Plans**

*COASTGROWTH*

**7. Innovative technologies**

*COAST R&I*

**8. Priority works**

*Major Coastal Projects*

Macro-Project phases , management and calendar

# 2014-2015 1<sup>st</sup> phase: Macro-Project capitalization into on going European projects by preparing the JAP



## Partnership Agreement Level 1:

- ongoing projects
- cluster
- new initiatives (protocols)



Macro-Project phases and calendar

## 2015-2018- 2<sup>nd</sup> phase: JAP consolidation and development of its actions, while designing the Major Projects.

### Partnership Agreement Level 2:

- new projects
- new direct call (e.g.:coastal mapping)
- ESI funds

- Launching of the 7 actions EURIOMCODE, EUROSION-MED, RESAM, ENVICOAST, COASTR&I, COASTGOV and COASTGROWTH.

15-22  
M€



Macro-Project phases , management and calendar

## 2017-2020- 3<sup>rd</sup> phase: JAP accomplishment .....

### Partnership Agreement Level 3:

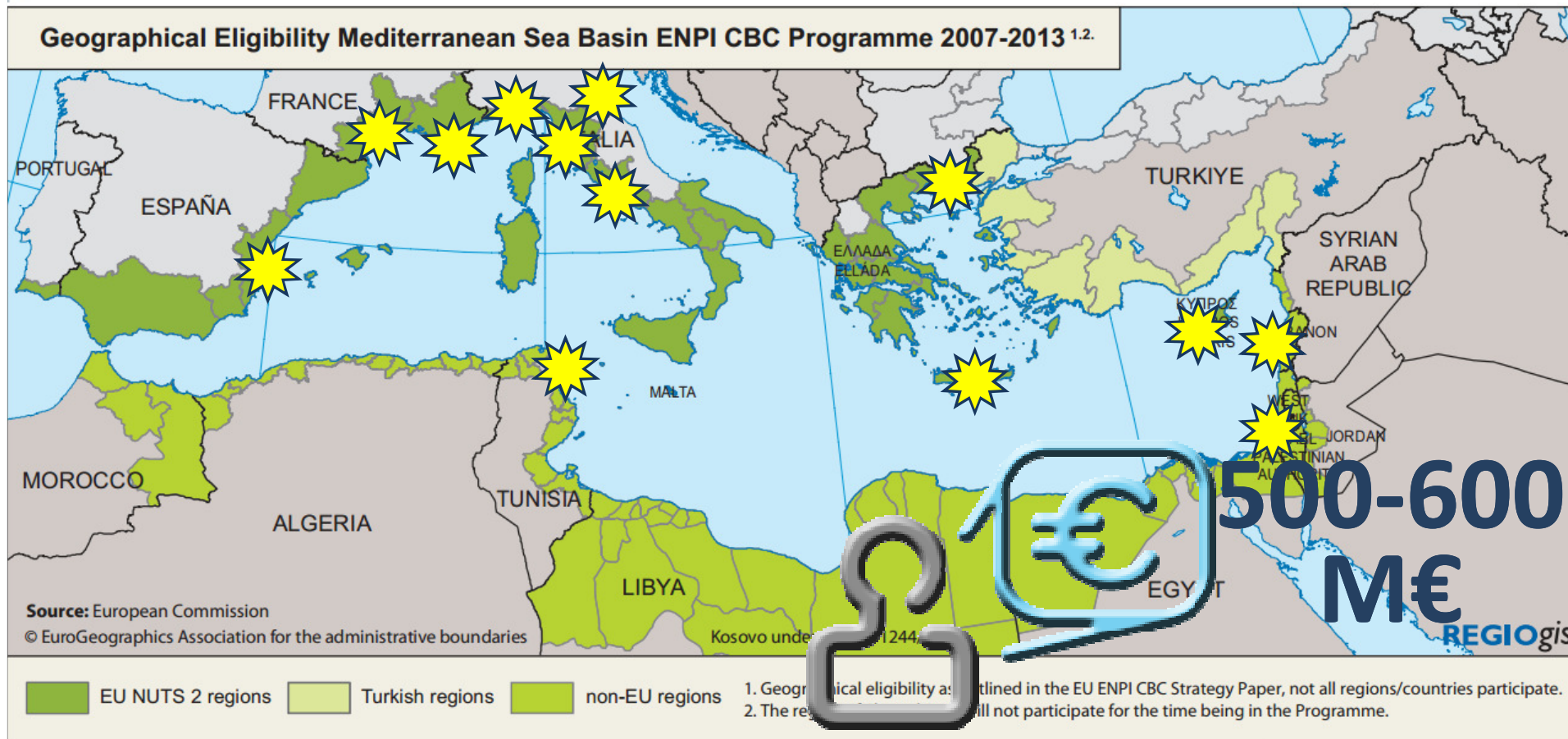
- European Grouping for TC
- Protocols between Med partners

- Establishment of the network EUROpean Interregional Observatory for the Mediterranean COstal DEfense

Macro-Project phases , management and calendar

# 2017-2023- 3<sup>rd</sup> phase: ..... and Major Projects approval and implementation

Geographical Eligibility Mediterranean Sea Basin ENPI CBC Programme 2007-2013 <sup>1,2</sup>



## Macro-Project phases , management and calendar

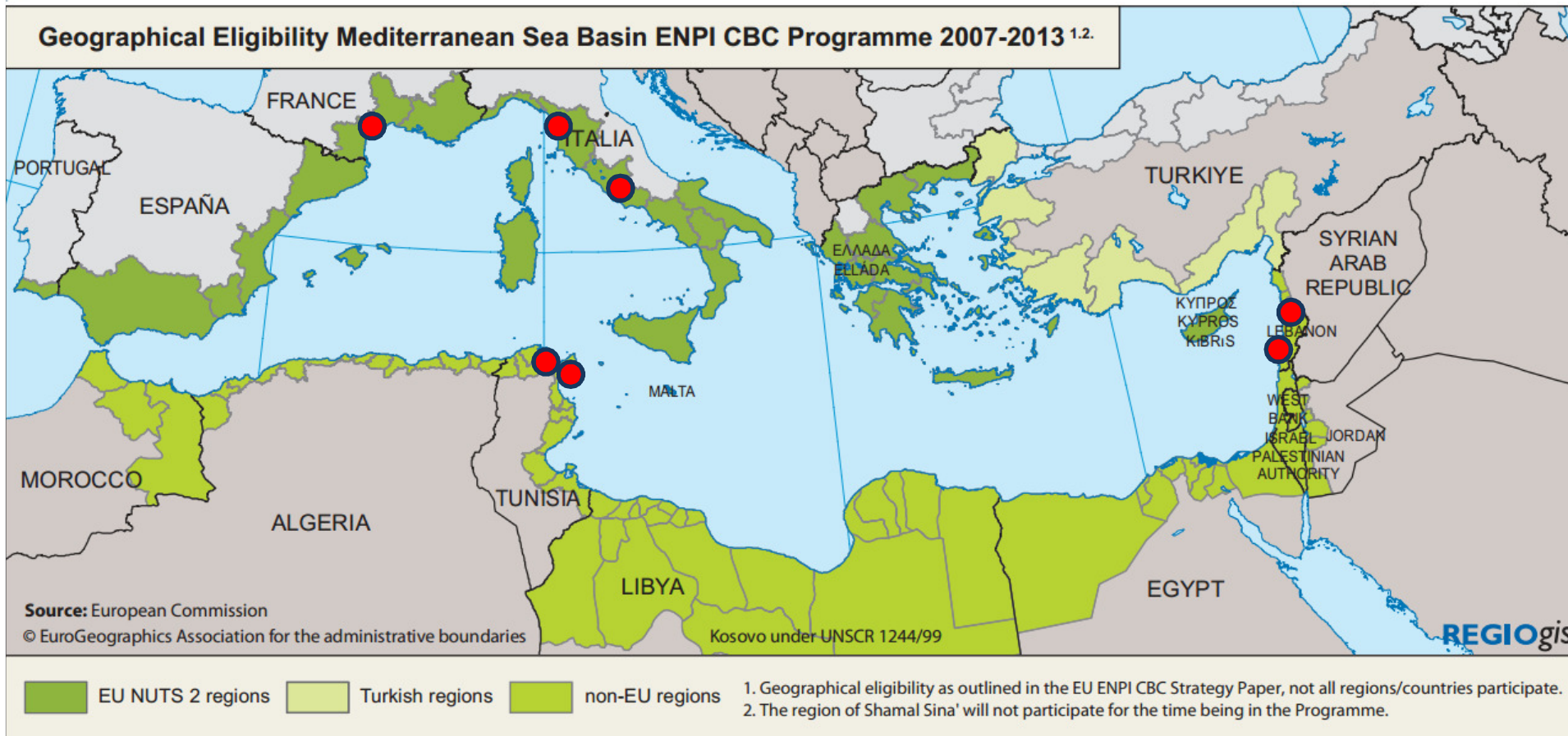


## Major Project example Larnaca harbor northern area recovery.

- Coastal defense by beach restoration
- Reconvert industrial area into tourist station
- Energy park
- etc.

# MEDSANDCOAST

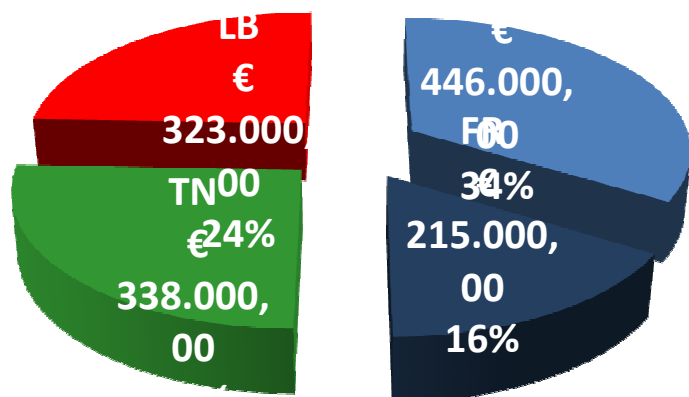
## Modèles innovants de gouvernance des ressources sableuses des zones côtières-marines pour une défense stratégique des littoraux Méditerranéens





# MEDSANDCOAST

Modèles innovants de gouvernance des ressources sableuses des zones côtières-marines pour une défense stratégique des littoraux Méditerranéens



1	Regione Lazio	IT	EU	€	296.000,00	22%
2	Département de l'Hérault	FR	EU	€	215.000,00	16%
3	Regione Toscana	IT	EU	€	150.000,00	11%
4	APAL	TN	MP	€	292.000,00	22%
5	ATIM	TN	MP	€	46.000,00	3%
6	Municipal Union of Sahel Al Zahrani	LB	MP	€	260.000,00	20%
7	Amwaj al Biaa (NGO environnemental)	LB	MP	€	63.000,00	5%
	<b>Total elegible du project</b>			€	<b>1.322.000,00</b>	

# MEDSANDCOAST

BESOINS

**GT4: Evaluation des vulnérabilités et des besoins par rapport à la protection durable des côtes**

RESSOURCES

**GT5: Identification, caractérisation et gestion des ressources sédimentaires nécessaires à la protection durable des côtes**

MOYENS

**GT3: Capitalisation**

**GT7: Aménagement de l'Espace Maritime-Côtier pour la gouvernance intégrée des zones côtières**

METHODES

**GT6: Protection, restauration et aménagement durable des plages et des systèmes dunaires**



# MINISTERO DELL'AMBIENTE E DELLA TUTELA DEL TERRITORIO E DEL MARE

Sei in: [Home](#) » [Comunicati Stampa](#) » Mare, Velo: "al via il tavolo nazionale per il contrasto all'erosione costiera"

## Mare, Velo: "al via il tavolo nazionale per il contrasto all'erosione costiera"



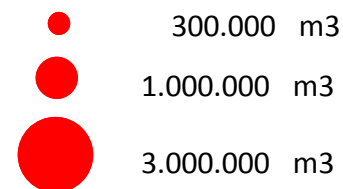
## Tavolo Nazionale per il contrasto all'erosione costiera

28/04/2015

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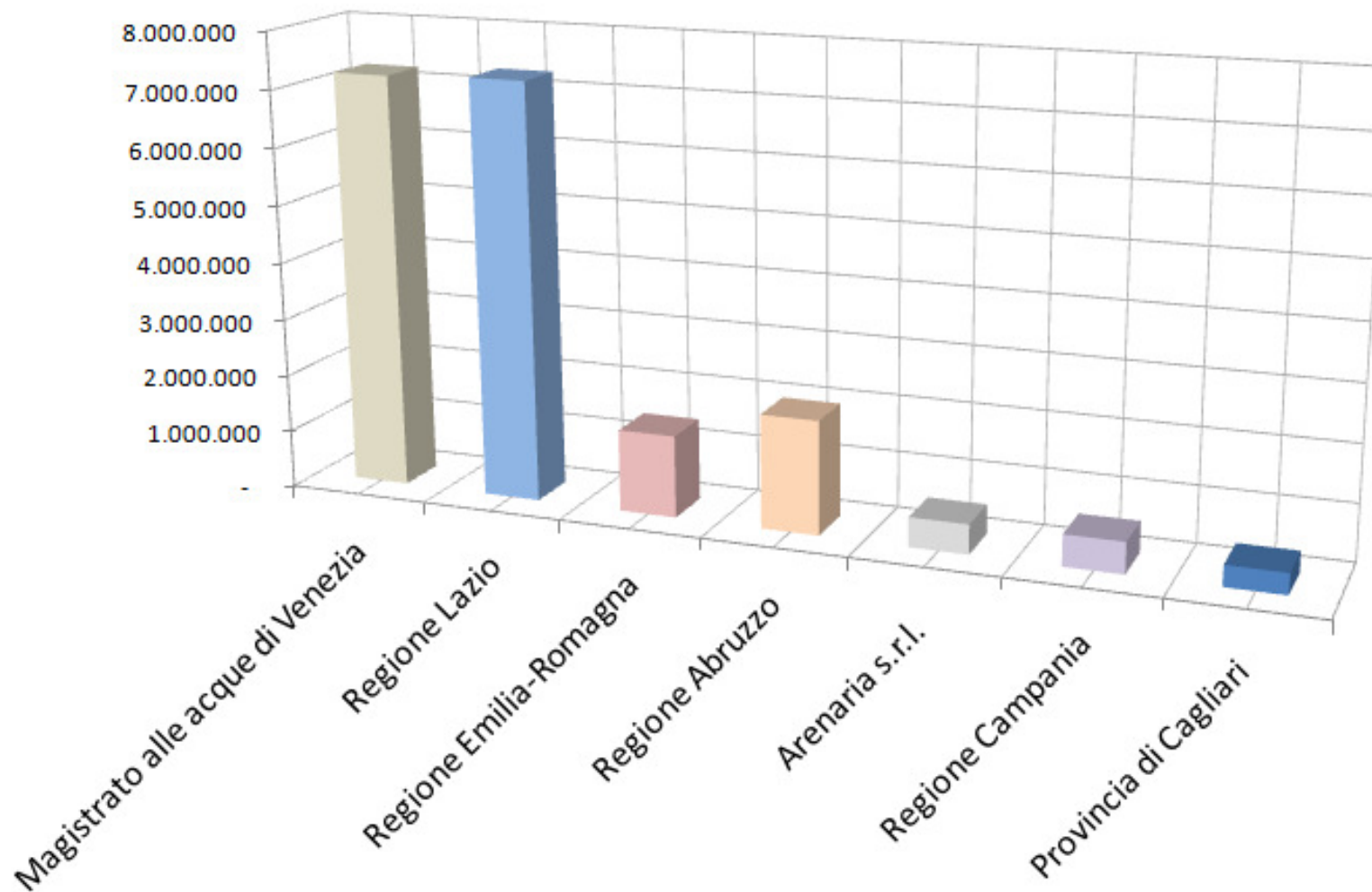
### Dragaggi 1997-2012



### Cave individuate

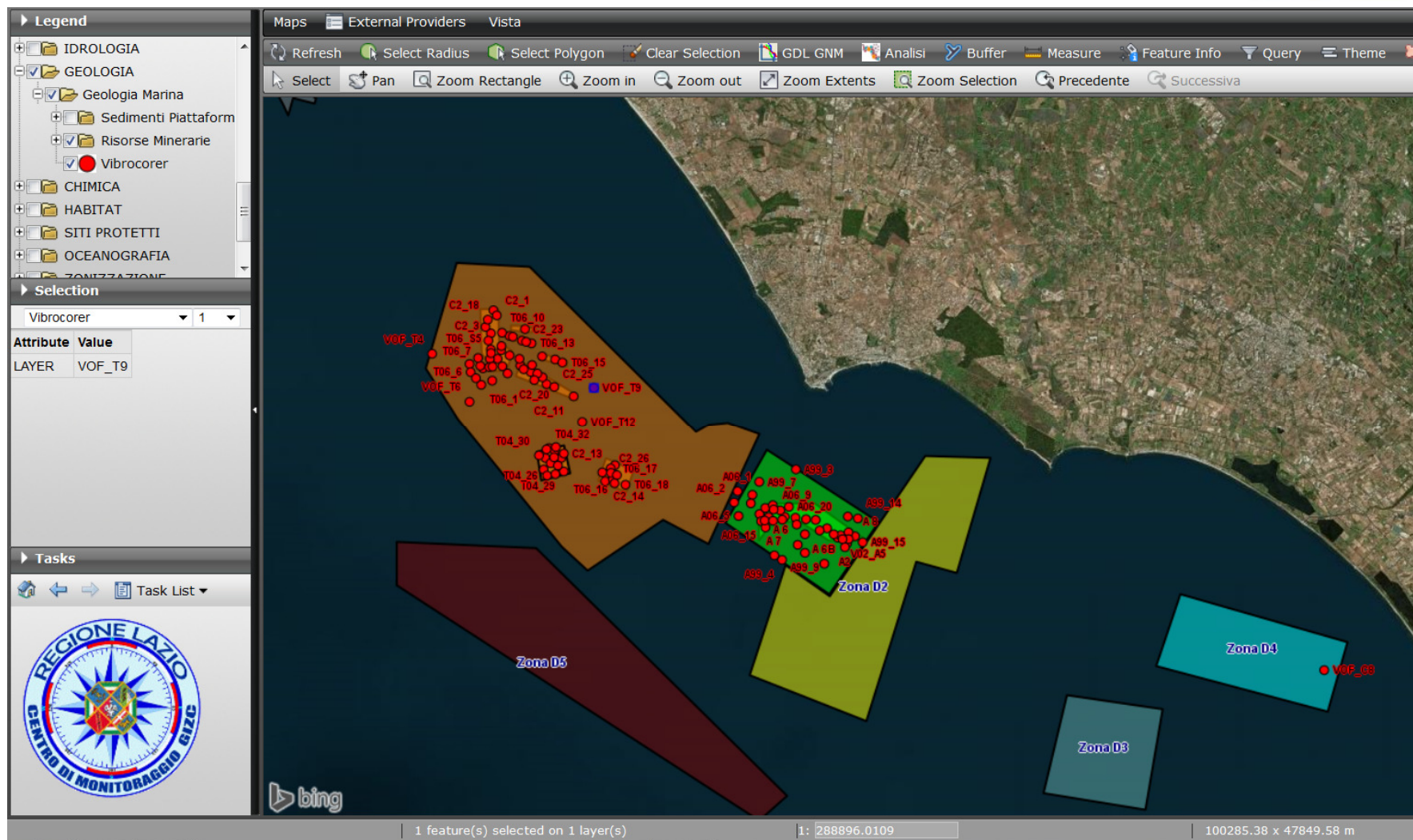


# 19,4 milioni di m<sup>3</sup> di sabbia dragati in Italia



Dragaggi da Cave Marine per ripascimenti in Italia 1997-2012 (m3)

**19,4 milioni di m3 di sabbia dragati in Italia**



## 7 milioni di m3 di sabbia dragati nel Lazio

28/04/2015

Ing. Paolo Lupino - Regione Lazio ARDIS

<http://medsandcoast.facecoast.eu/>



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**BIENVENUE DANS LE SITE DU PROJET MEDSANDCOAST**

" Modèles innovants de gouvernance des ressources des zones côtières-marines pour une défense stratégique des littoraux Méditerranéens "

**2e COMITE DE PILOTAGE DU PROJET ET CONFERENCE INTERNATIONALE**



**MONTPELLIER, les 11-14 juin 2014:** le deuxième Comité de Pilotage du Projet est prévu le 11 juin prochain à Montpellier, Département de l'Hérault. Dans le but de promouvoir des sinergies entre les différents Programmes Européens de financement, une

**Conférence Internationale** Conjointe avec le projet COASTGAP (Programme MED) sera organisée le 13 juin.



**2e Comité de Pilotage et Conférence Internationale - MONTPELLIER MAI2014**

« < June 2014 > »						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5

No events