



**EuDA Seminar on
Innovations improving Maritime Safety**
Thursday 5th March 2015, Zeebrugge

**Possible sources of financing
for artificial ‘safety’ islands**

Paris SANSOGLOU

*Secretary General
European Dredging Association*



Agenda

- The Prestige Accident
- Safety Island ?
- Multipurpose ?
- Successful Examples
- Conclusion



'Prestige' Accident Facts

The *Prestige*

- Liberian-owned, Bahamas registered, Greek-operated,
- built in 1976, 243 m long, 81,000 DWT
- single-hulled oil tanker of
- carrying 77,000 tons of 2 grades of HFO

The *Accident*

- during a storm on 13 November 2002,
- one of the *Prestige*'s 12 tanks burst in north-western Spain (off Galician Coast).

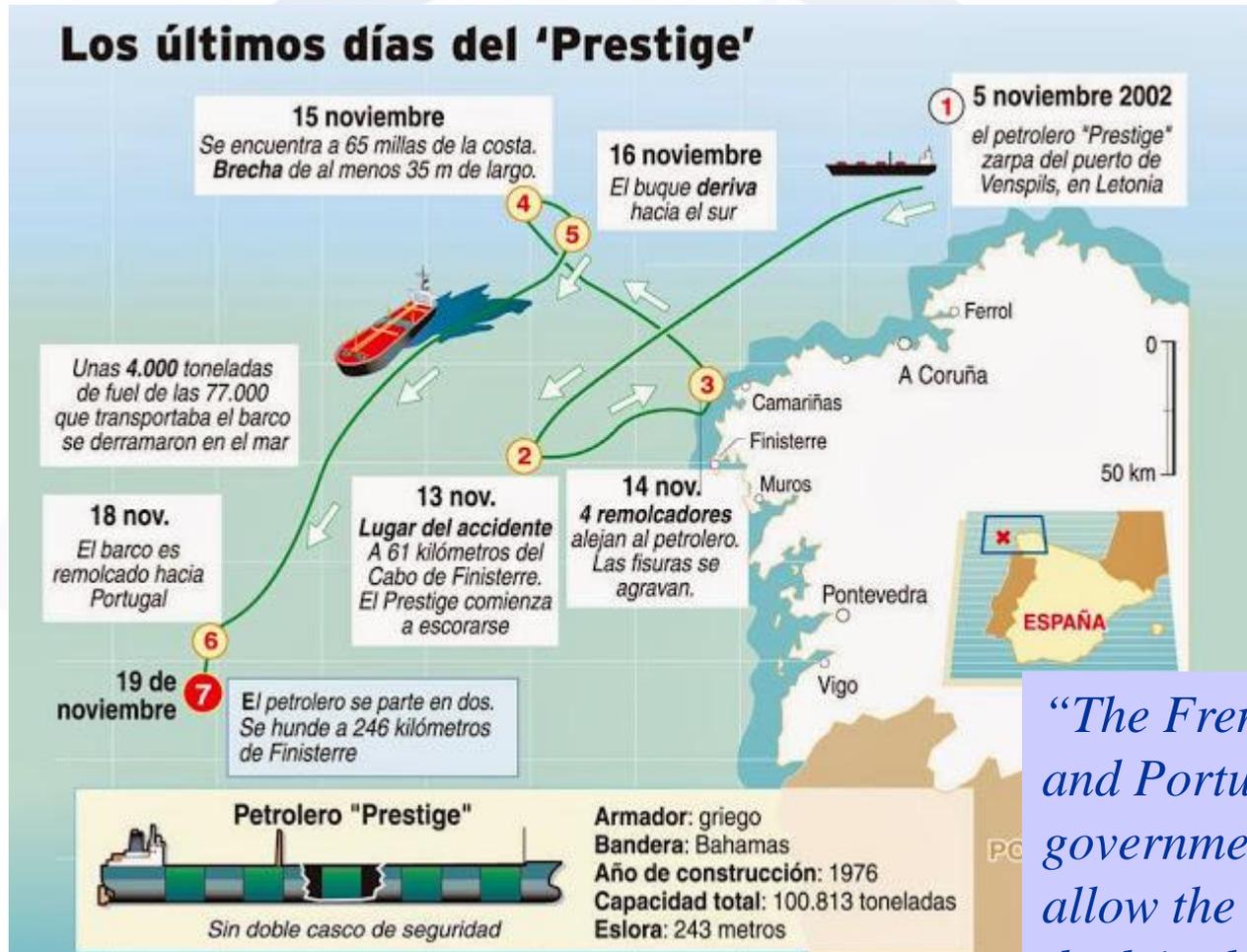
The *Refuge Refusal*

- **successive rejections from France, Spain and Portugal**
- storm quickly deteriorating ship integrity
- ship split in half and sank on 19 November .





'Prestige' Accident Facts



“The French, Spanish and Portuguese governments refused to allow the Prestige to dock in their ports.”



'Prestige' Accident Facts



The Aftermath

- 77,000 m³ of oil in the sea
- seabed pollution,
- 200 km of coastline contamination
- ecological impact (coral reefs, birds and sharks species)
- Impact on fishing industry and shellfish farming (offshore fishing suspended for six months)

The Costs

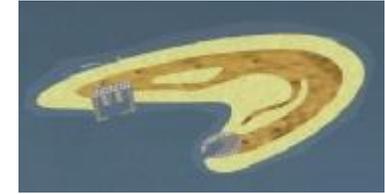
- removal and breakdown operation: €100 million
- 2013 court ruling:
 - 368 million euros to the Spanish State,
 - 145 million euros to the Spanish Region of Galicia
 - 68 million euros to France





Safety Island ?

Who would be interested ?



In theory, all at risk of an oil pollution:

- F** Ports (and local industries)
- F** Coastal Regions (and local communities, fauna and flora)
- F** Member States (national policies for safety, environment, transport)
- F** European Commission (European policies, legislation)
- F** IMO (international legislation)

In practice:

- F** Would legislation recognise or hinder this option ?
- F** Who would be ready to pay for it or contribute to part of the costs ?
- F** Why invest in occasionally needed infrastructures ?



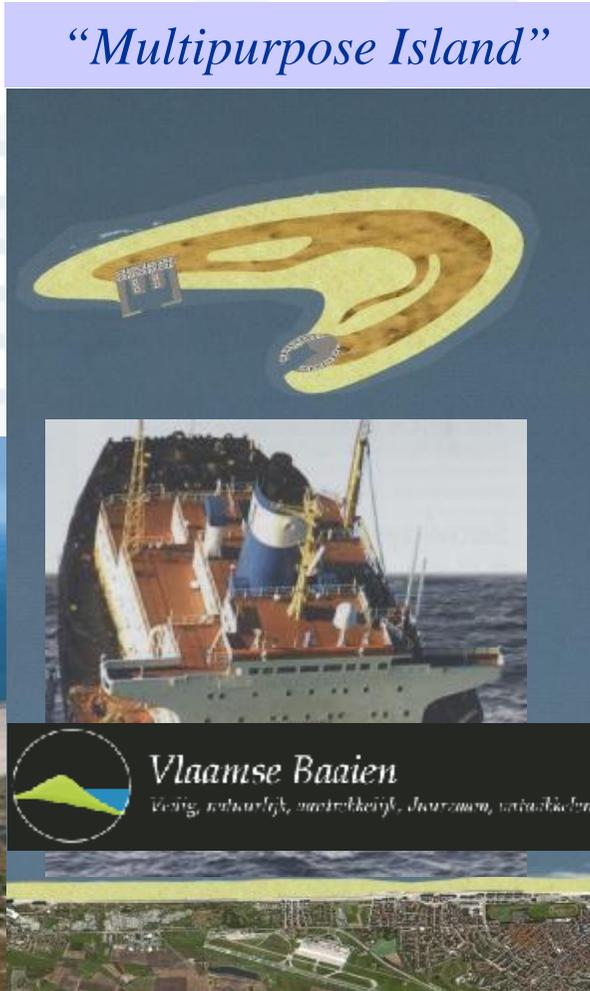
Successful Examples

Occasionally needed infrastructures ?

Coastal protection

Nature development

Safe Place of Refuge



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Beach nourishment in Ostend Coastal Defence and Tourism





Vienna's New Danube

Flood defences + Leisure + Nature + Energy





Multipurpose ?



Multipurpose infrastructure means

- F** same infrastructure used for different purposes at different times;
- F** integrated infrastructure used for a cluster of compatible/complementary purposes;

Multiplying possible activities multiplies the sources of funding:

- F** public interest (safety, environment, coastal defense, ...);
- F** private undertakings (maritime industries in leisure, energy, ...);
- F** PPP;



Multipurpose ? Which combination of activities ?

Land use

Tourism

Oil & Gas

Mariculture

**Coastal
defence**

**Ports &
Navigation**

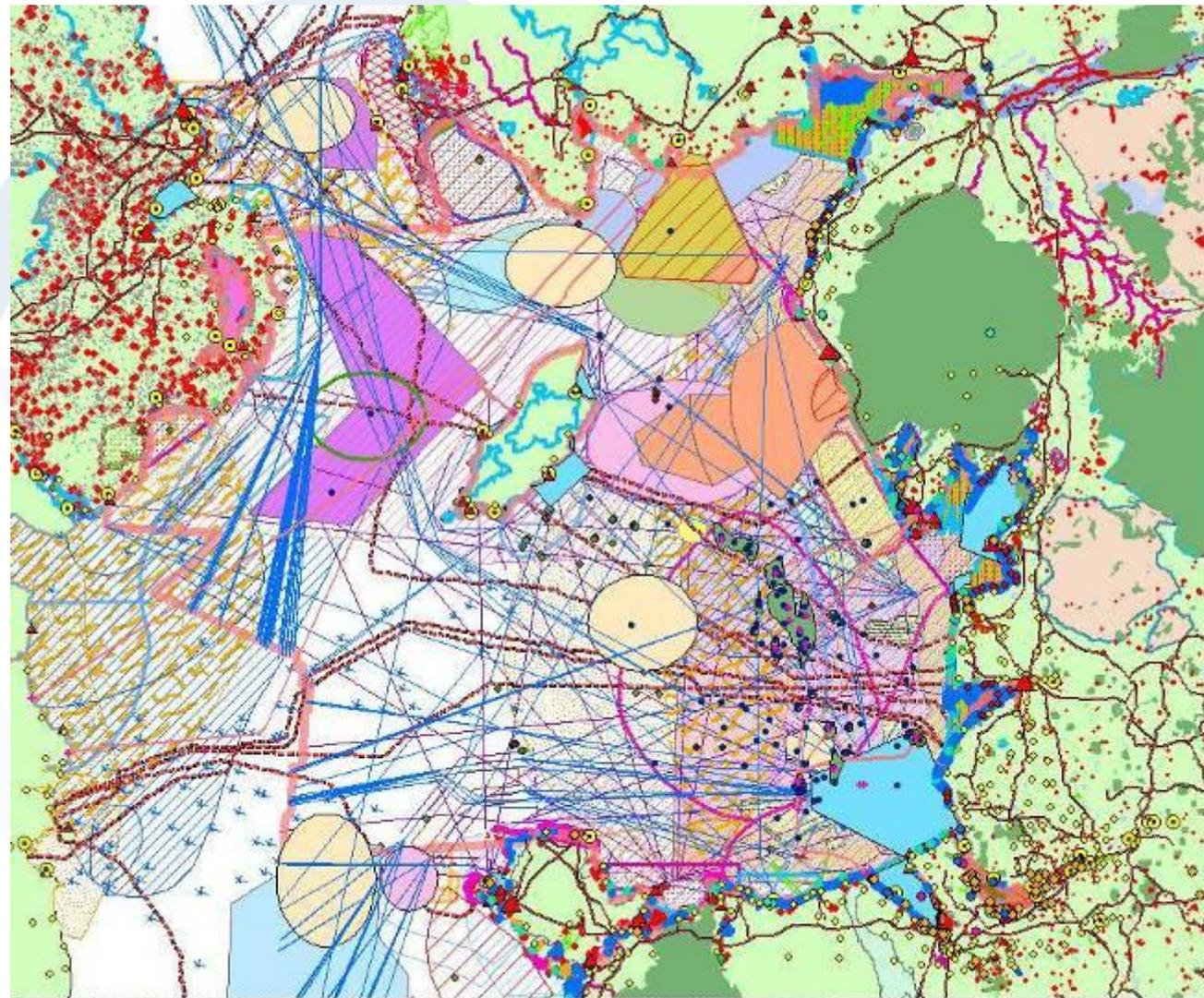
**Military
activities**

Culture

Conservation

**Dredging &
Disposal**

**Submarine
cables**



Source: DEFRA

Fishing

**Renewable
energy**

**Marine
recreation**

**Mineral
extraction**



Conclusion

Start Today !!!



European Dredging Association 2015



Thank you !

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