



Between economic growth and good environmental status: the way ahead for the Mediterranean cities

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How to promote sustainable transport in the context of climate change

- **Developing new transport multimodal routes with less impact on CO₂ emission** to achieve the environmental policy goals in the transport sector (White paper “Roadmap to a single European transport area” (COM(2011) 144 final).
- **“Greening” maritime transport & port activities** , cutting the emissions and protecting the environmental status of marine water (adaptation strategies)

Research and innovation are essential for a faster and cheaper transition to a more efficient and *sustainable European transport system*:

- vehicles' efficiency
- cleaner energy use
- more secure operations

synergies with sustainability objectives

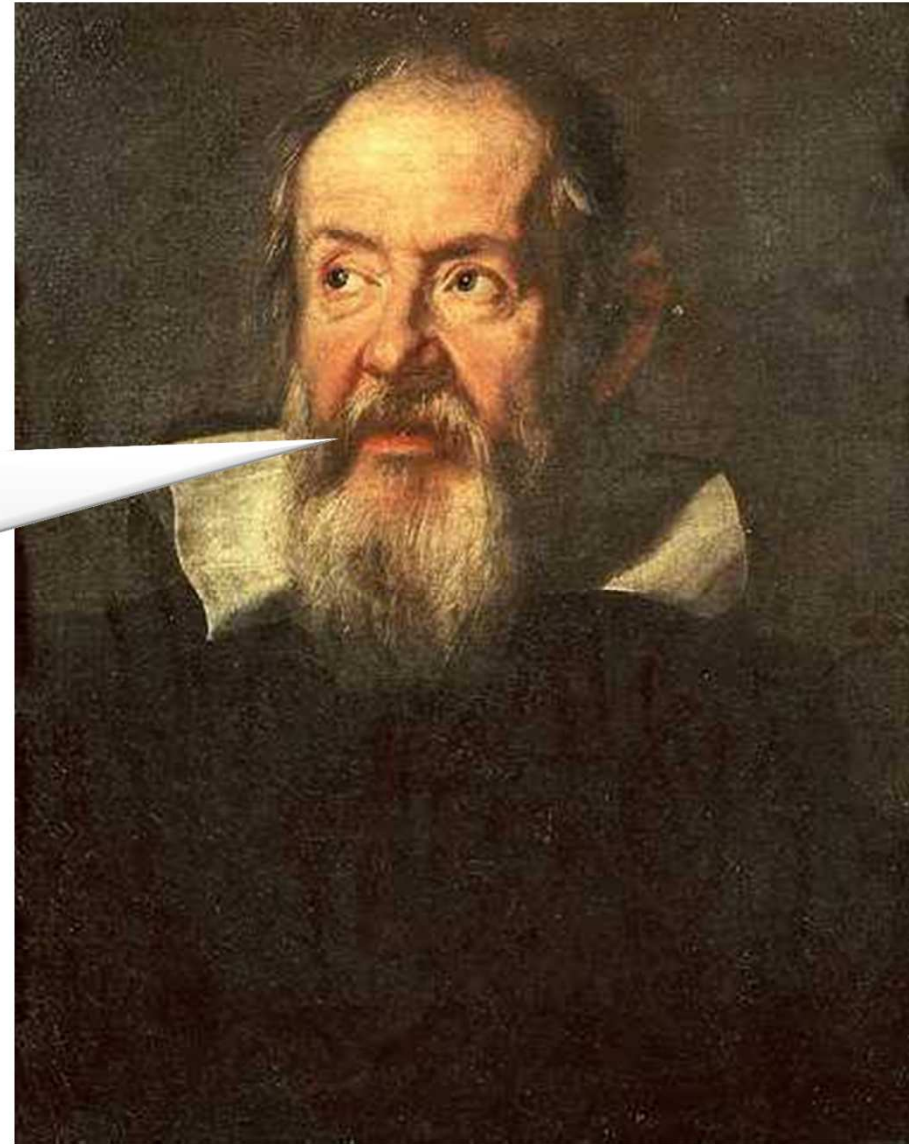


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Measure !

Measure what is measurable, and make measurable what is not

Galileo Galilei, 1564- 1642



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MARINE WATERS

The Marine Strategy Framework Directive

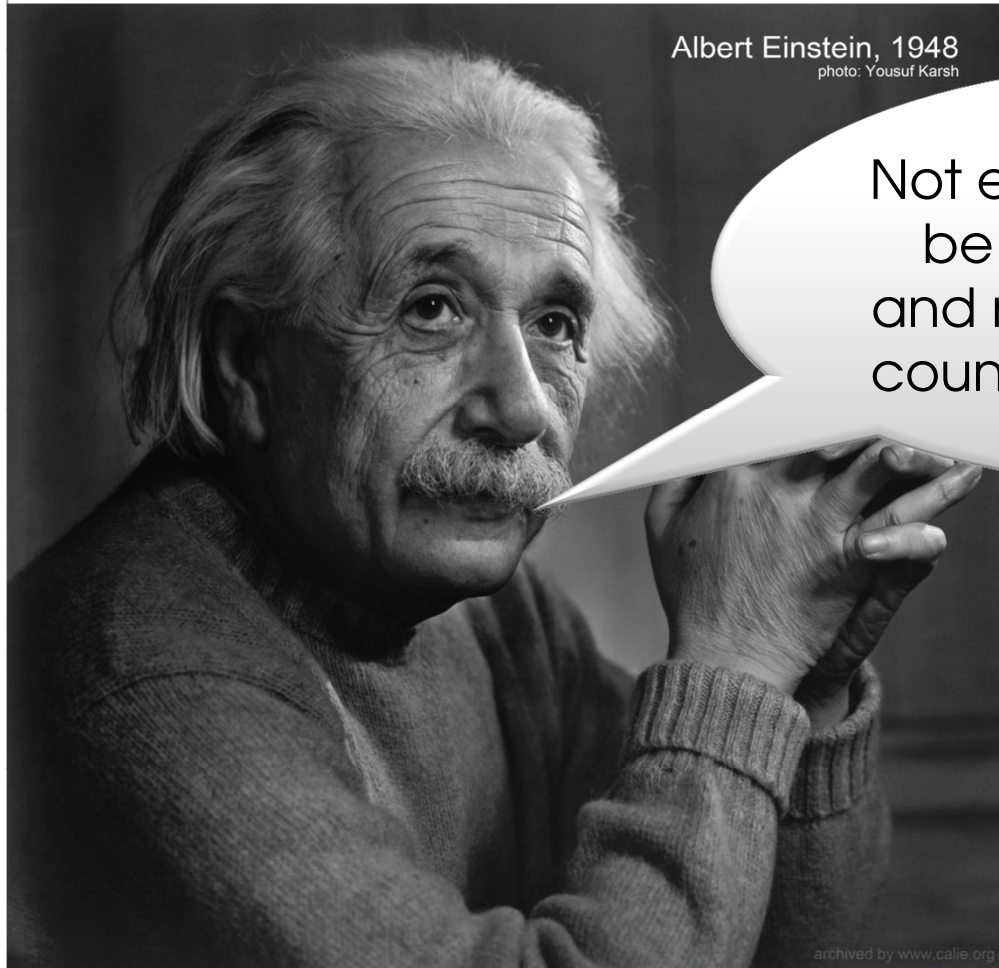
The main goal of the Marine Directive is to achieve *Good Environmental Status* of EU marine waters by 2020.

- Descriptor 1** Biodiversity
- Descriptor 2** Non-indigenous species
- Descriptor 3** The population of commercial fish species
- Descriptor 4** Elements of food webs
- Descriptor 5** Eutrophication
- Descriptor 6** The sea floor integrity
- Descriptor 7** Alteration of hydrographical conditions
- Descriptor 8** Concentrations of contaminants
- Descriptor 9** Contaminants in seafood
- Descriptor 10** Marine litter
- Descriptor 11** Energy (including underwater noise)



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From understanding to managing

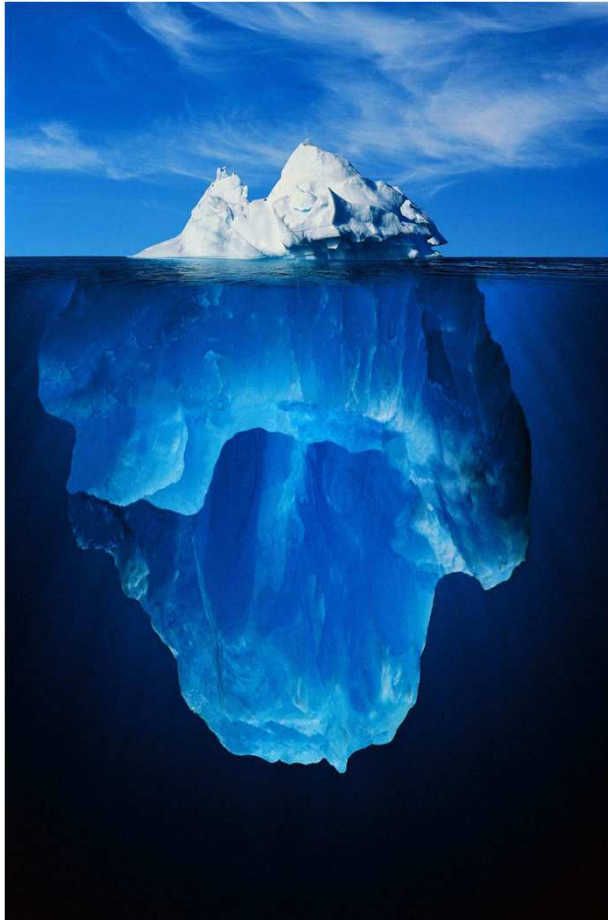


Albert Einstein, 1879-1955



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You cannot manage what you cannot measure



**Often indicators give priority to
what is measurable and not to what
is really important**

**You cannot rely only on
visible things!**

William Edwards Deming
(October 14, 1900 – December 20, 1993)



Greening Port Activities

The city of Venice

A unique ecosystem to be preserved

Main pressures :

- Soil contamination
- Water contamination
- Gas emissions
- Waste production
- Sediment contamination



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Greening Port Activities

The city of Venice

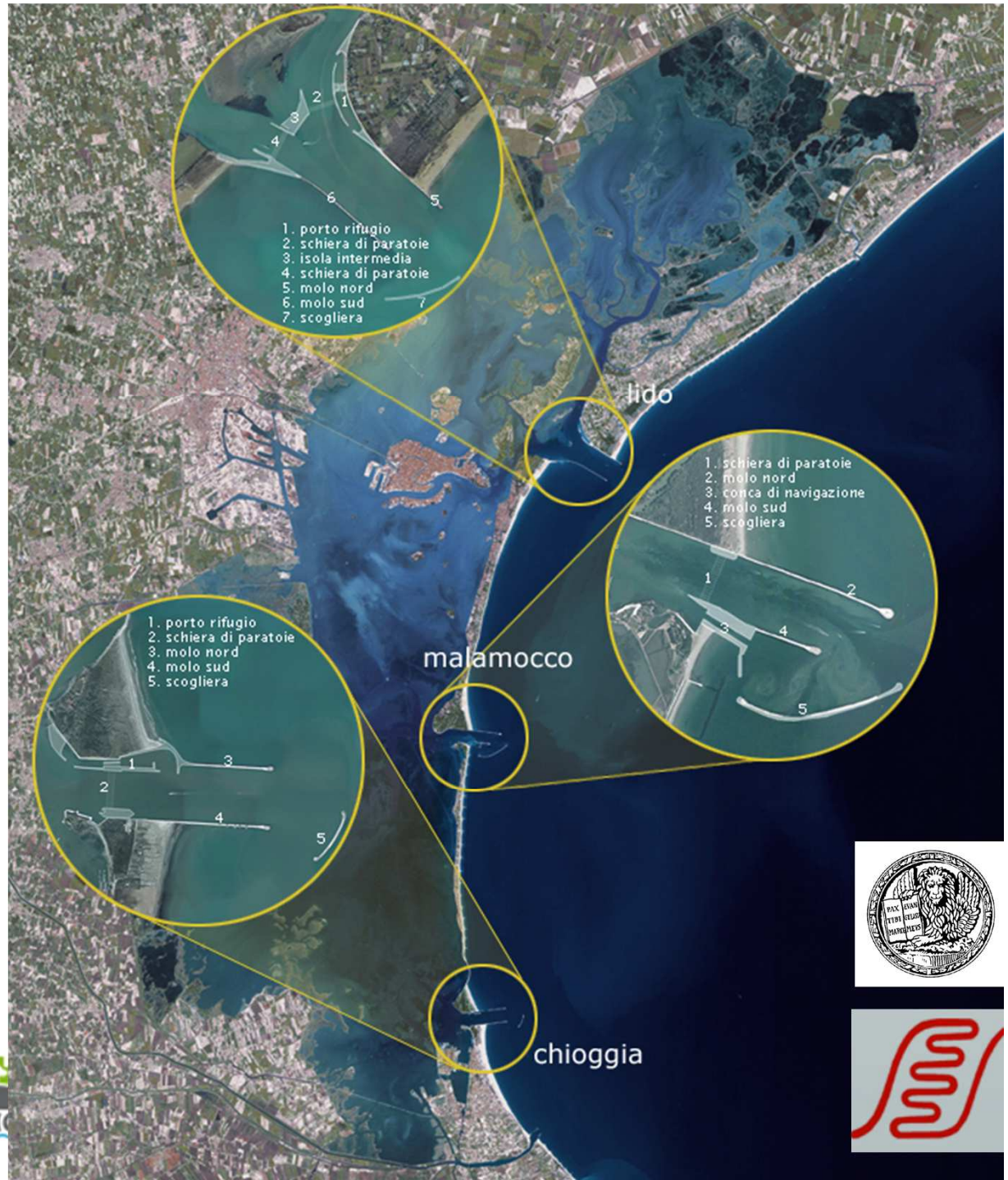
A unique cultural heritage

- Inscribed on the World Heritage List in 1987 (Venice and its lagoon)
- An extraordinary ensemble of cultural assets
- Venice is currently in the process of creating its UNESCO site management plan
- The city of Venice in the UNISDR Campaign for “Making Cities Resilient” – Venice role model for cultural heritage



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MOSE - Mobile tidal barrier system for the protection of Venice Lagoon from High Water





Economic vocation of the city



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Towards a Local Adaptation Plan within the APICE Project

- identification of the key-pressures – emissions
- implementation of the «right mix» of measures
- effort and commitment of stakeholders
- interface with legal frameworks (at national, regional and local level)
- relation with meteorological and environmental context and specificities



APICE “Common Mediterranean strategy and local practical Actions for the mitigation of Port, Industries and Cities Emissions”



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Mediterranean Sea policy



Cooperation is a key factor for the Mediterranean. It is bordered by more than 20 countries

“Towards an Integrated Maritime Policy for better governance in the Mediterranean”
COM(2009) 466 final

“Barcelona Convention”
ICZM protocol

MARE NOSTRUM

- No alternatives to sustainable (“blue”) development
- No alternative to a participatory approach for conflicts’ solution
- No alternatives to increase co-operation with non-EU countries
- No alternatives to de-pollute and to adapt to climate changes
- No alternatives to knowledge-based approaches: the science sector is a part of the game



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Venice as a paradigmatic case for the way ahead



Marriage of the Sea

Since year 1000 AD



“Desposamus te, mare. In segnum veri perpetuique dominii”



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