Satellite Applications in the Blue Economy - Session [A6]: Maritime Spatial Planning and Blue Economy

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Eurisy
Eurisy is an association formed under French law in 1989 for the International Space Year in 1992 – but Eurisy is still going strong!

Acting collectively to bridge space and society
THE EURISY STRATEGY TO CONNECT SPACE AND SOCIETY

Eurisy works to put users at the core of the Space Value Chain

- RESEARCH/POLICY/
  PUBLIC INVESTMENTS IN SPACE INFRASTRUCTURE
- (SATELLITE) DATA PROVIDERS
- INFORMATION /SERVICE PROVIDERS
- TECHNOLOGY INTEGRATORS/SERVICE PROVIDERS
- AWARENESS
- NEEDS
- END USERS
EURISY’S METHODS

USER-CENTRED APPROACH

DIRECT TESTIMONIALS
EXCHANGE OF EXPERIENCE
Public administrations – SMEs - NGOs

ONLINE DATABASE OF TESTIMONIALS
www.eurisy.org

EVENTS & CONFERENCES

PUBLICATIONS & SURVEYS
Blue Economy

What is Blue Economy?

All economic activities related to oceans, seas and coasts. Blue Economy covers a range of interlinked established and emerging sectors.

(The 2018 Annual Economic Report on EU Blue Economy)
Blue Economy

- Aquaculture
- Fish Processing Industry
- Desalination
- Coastal and Environmental Protection
- Offshore Wind Energy
- Ocean Energy
- Blue Bioeconomy & Biotechnology
- Maritime Transport
- Marine Extraction of oil and gas
- Coastal Tourism
- Ports, Warehouse and Water Projects
- Shipbuilding & Repair
Main messages:

- Satellite applications bring an added-value for addressing the specific challenges of coastal areas
- Cooperation networks are the key for improving the take-up of satellite services among local authorities
- All the different scales of actors must be involved in innovation development and take-up
- Users training has to be developed to ensure an efficient adoption of the services
Can EO become an enabler of the blue economy? - Examples 1/3

Central Command for Maritime Emergencies: monitoring sea pollution on German coasts using satellite information

Technology: EO; Satcom; Satnav

User:

Challenge: respond to marine pollution

Satellite Solution: CleanSeaNet. Oil spill and vessel detection service based on satellite data provided by EMSA

Result: Improved surveillance capacity and rapid intervention
Weather4D: smooth seas and fair winds ahead with satellite technology

Technology: EO; satnav

Challenge: Provide sailors multiple set of data into a single interface

Satellite Solution: My Ocean current and wave data (Copernicus Marine Environment Monitoring Service)

Result: Better and safe navigation.
Can EO become an enabler of the blue economy? - Examples 3/3

Other cases:

**Algal Bloom - UK South West Coast**
- Damages and losses for fishing, aquaculture, tourism, desalination, etc.;
- Combination of EO images, microscope and buoy information

**Coastal Erosion - Camargue, France**
- Rise of sea level and potential damages to buildings in proximity to the coast
- Sentinel-2 images and ad hoc solutions

**Coastal Water Monitoring - Barcelona, Spain**
- Urban development and coastal water quality
- Information-based satellite imagery service to guarantee, during bathing season, the continue monitoring of coastal water for citizens, tourists and other economic actors
Recommendations

- The demand for EO information products is increasing in the maritime sector
- The volume of research projects is higher than the applications

Which actions can be undertaken to connect end users, service providers, academia and the traditional space actors?

I. Target different users (institutional actors, national and local actors, NGOs, etc.) according to the identified needs.

II. Raise awareness on satellite benefits outside the space sector to favour the implementation of applications dedicated to the maritime sector, to help and boost the blue economy

III. Favour the dissemination of case studies and help the relations between service providers and end users
Thank you for your attention

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For more information on our activities visit our website:

https://www.eurisy.org/