



Sustainable port management through Copernicus: the space-based IMPRESSIVE platform

IMPRESSIVE is an Horizon2020 maritime pollution project (<http://impressive-project.eu>) implemented by a consortium of 12 partners from the European private and public sector.

Serious marine pollution events such as oil spill accidents and waste water discharges constitute a common challenge across regions' ports that severely impact the environment at a European and global level. In response to this, **IMPRESSIVE project aims at the development of a universal relocatable geoportal which tracks the marine pollution events** in the ports of the European Union and their areas of influence.

In the framework of the EU's Blue Economy and the Green Port Strategies, **IMPRESSIVE web application achieves at a low cost a better port management** which provides to the end user with all needed information to control pollution incidents.

The use of IMPRESSIVE EO platform could benefit the following target audiences and potential clients of the system as below:

- a) Port authorities** (also Coast guards, Environmental protection Agencies) could improve sustainability and secure safer activity through a better pollution control management in the ports,
- b) local and regional authorities** could enhance industry competitiveness and innovation thanks to job creation and technology transfer of new skilled human resources with EO-data expertise, able to support the end users,
- c) maritime industry** (including Oil/gas industries, Off-shore industries) and SMEs could get a better corporate image concerning their operations within the ports.

impressive-project.eu

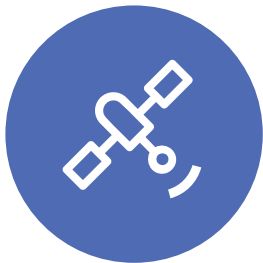




An ultimate goal of IMPRESSIVE's innovation action is to **foster the exploitation of Copernicus by supporting efforts to reduce the amount of pollutants**, to improve the quality of waters and to provide greater access and information to citizens.

To achieve this, the IMPRESSIVE web application is **built on different innovative technologies/techniques for earth observation, robotics and advanced mathematical models**, for the development of this integrated, universal and replicable system, based on satellite images and Copernicus Marine products.

impressive-project.eu



**Satellite
monitoring
service**



**Software
package**



**Risk
mapping**



**Autonomous
Surface Vehicles**



**Action
protocol**



**Rapid-response
integrated system**



The positive impact of the project has also been evident in 2020 when the Commission's "Innovation Radar" portal recognised IMPRESSIVE as an excellent innovation product. IMPRESSIVE project was recently selected in the May 2021 edition of RESEARCH*EU Magazine in the Topic "EU researchers tackle pollution for a cleaner, greener Europe". More info in the following weblink: <https://cordis.europa.eu/article/id/429874-a-set-of-new-eyes-to-detect-oil-spills-in-harbours-and-coastal-areas>

Additional information on IMPRESSIVE one may listen in the following podcast episodes of CORDIS following the below weblinks:

- <https://anchor.fm/cordiscovery/episodes/EU-researchers-tackle-pollution-e11kf7n> (Anchor.fm)
- <https://open.spotify.com/episode/6FSDMphypHpAAIAIYU3ku5> (Spotify)
- <https://podcasts.apple.com/gb/podcast/eu-researchers-tackle-pollution/id1552133898?i=1000523170414> (Apple Podcasts)

IMPRESSIVE is an **Horizon2020** project implemented by a consortium of 12 partners



Aratos.Net Ltd



National Observatory of Athens (NOA)



Consejo Superior de Investigaciones Científicas

Puertos del Estado



Puertos del Estado



Euro-Mediterranean Center on Climate Changes (CMCC)



Planetek Italia



Universidad de Las Palmas de Gran Canaria



European Association of Universities in Marine Technology and Related Studies (WEGEMT)



Elittoral s.n.l.e. (Estudios de ingeniería costera y oceanográfica)



Wide Pilot S.r.l



Network of European Regions Using Space Technologies (NEREUS)



CloudFerro sp. z o.o.



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3rd Press release: IMPRESSIVE Final online conference

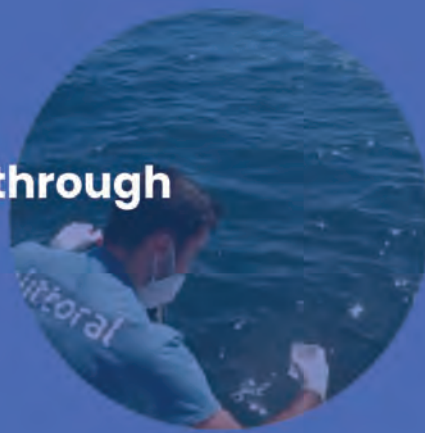
IMPRESSIVE final conference: “**Sustainable port management through Copernicus: the space-based IMPRESSIVE platform**” on 27th October 2021.



impressive

**Sustainable port management through
Copernicus: the space-based
IMPRESSIVE platform**

27th October 2021



The objective of this online conference organised by NEREUS (Network of European Regions Using Space Technologies) was to a) promote and present the main successful outcomes of the IMPRESSIVE space-based solution (<https://impressive-project.eu/>) and b) bring together experts from European institutions, port authorities, regions having ports, the maritime industry, and other key maritime stakeholders in order to identify opportunities for further cooperation.



The first presenters, Ms Loredana Capone, President and Member of the Regional Council of Apulia region (NEREUS member region) and Mr. Casto Lopez Benitez, Directorate-General for Mobility and Transport Maritime Safety, highlighted innovative technologies such as the IMPRESSIVE platform, as needed key tools to support efficient port management and enhance the sustainability of the marine environment.



Loredana Capone, President and Member of the Regional Council of Apulia region

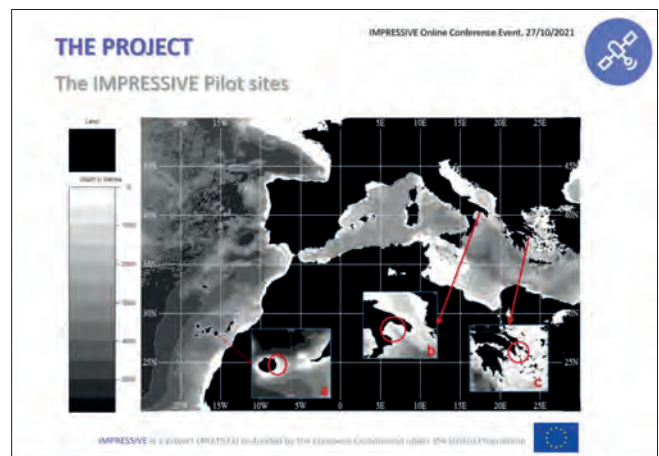


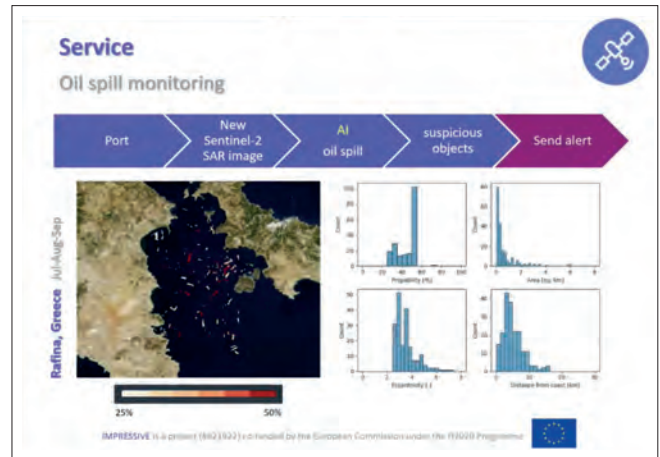
Casto Lopez Benitez, Directorate-General for Mobility and Transport Maritime Safety

Next, IMPRESSIVE partners presented live the online platform along with a video from the recent demonstration of the solution, emphasizing that it will be adapted each time to the needs of the users.



Dr. Ioannis Dontas - IMPRESSIVE project coordinator, Aratos.Net ltd

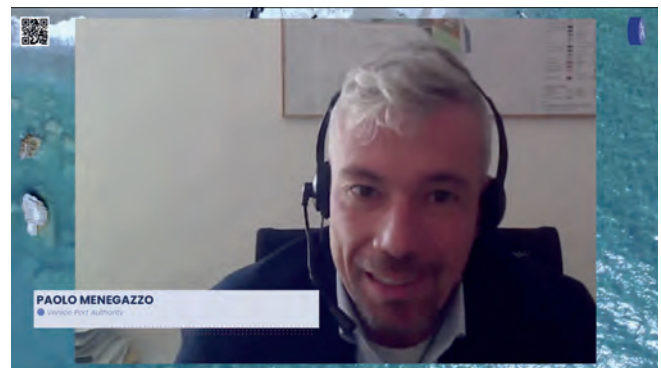
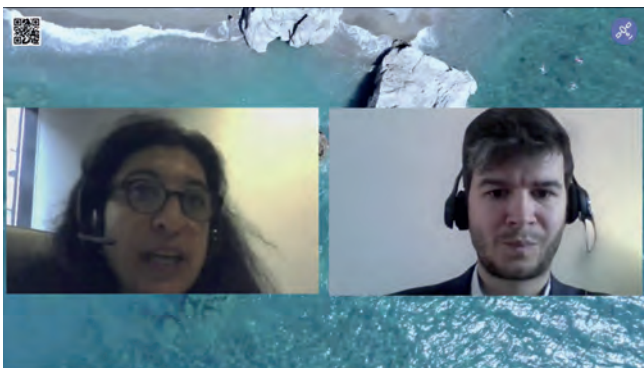




Dr. Iphigenia Keramitsoglou - Research Director, National Observatory of Athens

This was followed by 3 panel discussions focused on current and future needs in terms of maritime services with the objective to demonstrate via IMPRESSIVE the potential of Earth Observation for boosting local and regional economies.

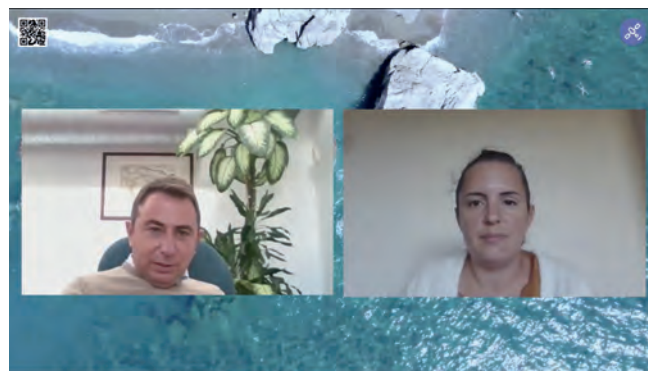
The first round table with local and regional authorities such as port authorities and other relevant associations was moderated by Ms Roya Ayazi, the Secretary General of NEREUS and showcased how the platform could contribute to a better policy making and raise awareness in regions.



Roya Ayazi - NEREUS Secretary-General, Rui M A Caldeira, ARDITI - Regional Agency for the Development of Research, Technology and Innovation, Paolo Menegazzo - Venice Port Authority

The second round table with the maritime industry was moderated by Mr Sergio Samarelli from Planetek and it was focused on the use of the IMPRESSIVE product and the expectations by the industry.

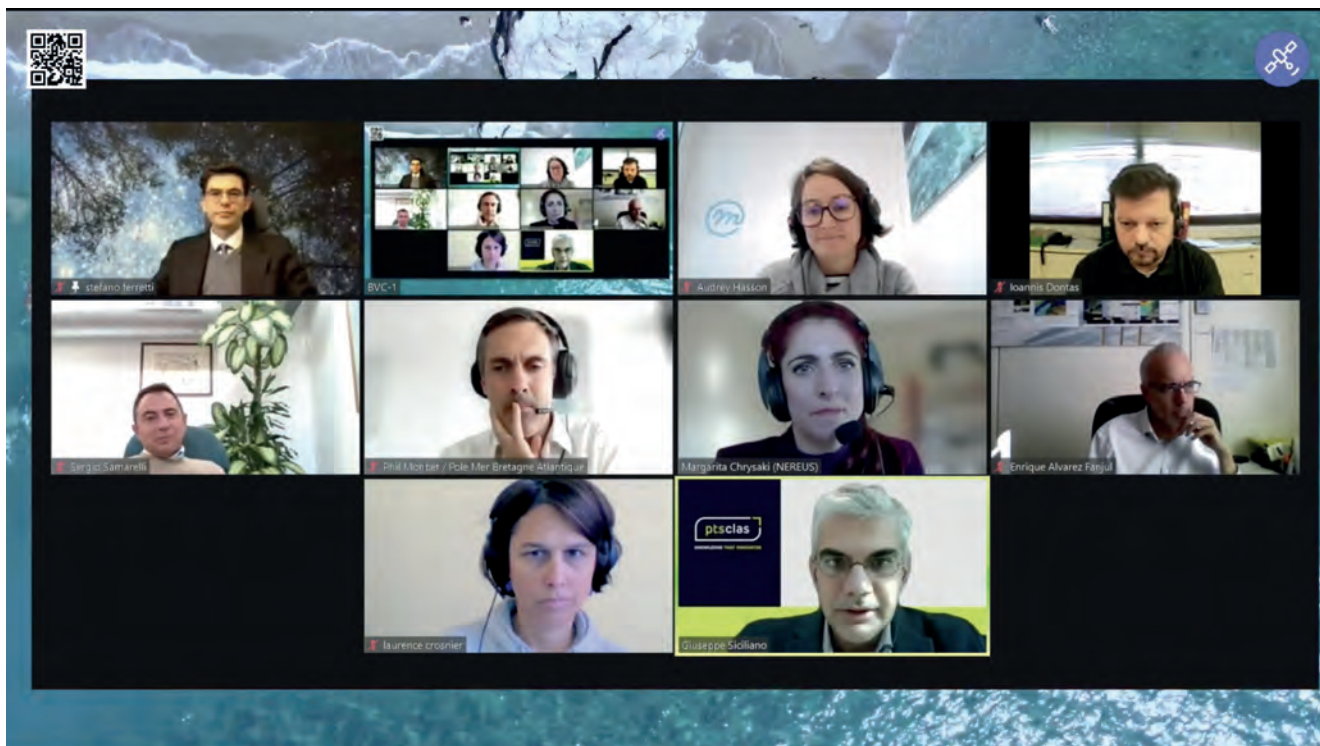
The final round table with other maritime stakeholders was moderated by Ms Margarita Chryski, NEREUS Communications & Project officer and it aimed at identifying how the IMPRESSIVE platform fits into other initiatives and how it could possibly evolve in the future.



Sergio Samarelli - Planetek, Amandine Declerck - SUEZ Rivages Pro Tech



Margarita Chryski - NEREUS Communications & Project officer, Teresa Cunha -European Maritime Safety Agency (EMSA), Laurence Crosnier - Mercator Ocean, Audrey Hasson - Mercator Ocean, Stefano Ferretti - European Space Agency



IMPRESSIVE Conference closing session

Concluding remarks

To this end, **more than 350 participants from the maritime and space sector** joined the online conference through registration and social media (Twitter, Facebook) and had the chance to participate in the discussion of the 3 round tables.

You can find the full list of speakers [here](#).

You can watch the full conference [here](#).