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<b>JERICO-S3 MILESTONE</b>	
Joint European Research Infrastructure network for Coastal Observatory <b>Science, Services, Sustainability</b>	
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→ **Please specify the type of milestone:**

- Report after a workshop or a meeting (TEMPLATE A)
- Report after a specific action (TEMPLATE B) (test, diagnostic, implementation,...)
- Document (TEMPLATE B) (guidelines,...)
- Other (TEMPLATE B) (to specify) .....

<b>Diffusion list</b>			
<u>Consortium beneficiaries</u>	Third parties	Associated Partners	other

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## **A) TEMPLATE A - report after a workshop or a meeting**

### **1. A - Attendees**

The Training Workshop #1 was focused on Mature Platforms, specifically on high frequency (HF) radars, and was organised by Consiglio Nazionale delle Ricerche (CNR), Italy, with AZTI, Spain, both partners from WP5 (Harmonisation of integrated Multiplatform & Multidisciplinary systems). This workshop was held in Florence, Italy, from the 21<sup>st</sup> to the 22<sup>nd</sup> of November 2022, with the title "New joint tools for the European HFR Community". It ran both in remote and in person formats, with around 15 in person participants and 15 online participants. The Training Workshop happened as part of the periodic Meeting of the High Frequency Radar (HFR) Task Team of EuroGOOS. The first day of the workshop took place at CNR and the second day at the Sant'Apollonia Auditorium. The list of attendees can be consulted in Annex 1.



Figure 1 - Attendees Group Photo.

### **2.A - Background**

The Training Workshop #1 was organised by CNR with partners from WP5, aiming to provide training on aspects related with best practices, data processing and quality control, and the use of the virtual research environment (VRE), which is being implemented under WP7 (Technological innovation). This dedicated workshop was open to project partners as well as external partners to advance their knowledge.

The event was advertised beforehand on the JERICO-RI social media pages (such as, e.g., the JERICO-RI LinkedIn page

<https://www.linkedin.com/events/jerico-s3trainingworkshop-newjo6999075388496703488/comments/> ,

gathering circa 350 impressions).

After the event, several news concerning the Training Workshop were published online on:

- LinkedIn, <https://www.linkedin.com/feed/update/urn:li:activity:7003045544830865408/>

(gathering circa 425 impressions);

- <https://www.jerico-ri.eu/2022/11/29/eurogoos-hfr-task-team-annual-meeting/> ; JERICO-RI portal

- Facebook <https://www.facebook.com/JERICORI> ;

- Twitter <https://twitter.com/JERICORI> .

JERICO-RI communication materials such as brochures and leaflets were made available to the participants during the Training Workshop.

### **3.A - Agenda A - Main report**

The Training Workshop contributions are detailed next.

#### Contribution #1

Title: JERICO Coastal Ocean Resource Environment (CORE) as a platform to support HFR activities

Description: The JERICO Coastal Ocean Resource Environment (CORE) Virtual Research Environment (VRE) offers the possibility to integrate services that take advantage of the knowledge base catalogue of JERICO resources. These advanced services can support processing and analysis of datasets that are discoverable in the knowledge catalogue. Moreover, they provide an overview of the status of the assets of coastal research infrastructures. In this workshop, an example of service in the JERICO-CORE VRE was presented, helping to show the prospect of this platform for the HFR community and the gaps in the HFR information of the JERICO-CORE resource catalogue.

#### Contribution #2

Title: HOORT [HFR Online Outage Reporting Tool]: What is it and how does it work?

Description: In this workshop a practical step by step demonstration was aimed at introducing the HFR Online Outage Reporting Tool user interface, key features and functionalities to the European HFR operators. The tool is intended to provide guidance for detecting, describing and archiving in a searchable database all the outages occurring in operational HFR networks sending near real time data to the European HF Radar Node.

### Contribution #3

Title: The European HFR Node: Quality Control on surface current data

Description: A detailed overview of the Quality Control procedures and the related software tools operated by the European HFR Node for the production and distribution of standardised Near Real Time (NRT) and Delayed Mode (DM) surface current data measured by High Frequency Radar systems was presented and explained.

The agenda of the 21<sup>st</sup> November was organised as follows:

- JERICO Coastal Ocean Resource Environment (CORE) as a platform to support HFR activities (presentation by Miguel Charcos Llorens, SOCIB);
- HOORT [HFR Online Outage Reporting Tool]: What is it and how does it work? (presentation by Emma Reyes Reyes, SOCIB);
- The European HFR Node: Quality Control on surface current data (presentations by Lorenzo Corgnati, CNR, and Anna Rubio, AZTI);
- Questions & Discussions.

The afternoon of the 2<sup>nd</sup> day, the 22<sup>nd</sup> November, was organised as follows:

- New joint tools for European HFR Community: further insight, with
  - practical training session #1 on JERICO-CORE, by Miguel Charcos Llorens (SOCIB);
  - practical training session #2 on HOORT tool, by Emma Reyes Reyes (SOCIB);
  - explanation on how to register as a new user to the European HFR node portal, by Lorenzo Corgnati (CNR).
- Open discussion and demonstration for interested HFR operators.

The afternoon practical sessions involved the use of the JERICO-CORE platform - which required the user to be registered beforehand to the Blue Cloud portal in order to have access to the VRE, - and afterwards the beta tests of the HOORT tool - requiring also the user to be registered to the portal of the European HFR node.

Concerning the JERICO-CORE VRE some inconsistencies were detected in the high frequency radar data available between data distribution platforms, which may be related to the fact that common identifiers are not being used between different platforms.

The participants trial tested the HOORT tool, following some specific actions to be taken in their existing user area within this online tool. The problems that were detected during the tests were reported in real time and tackled as possible. A beta testing questionnaire was filled out by the end of the workshop. The purpose of the questionnaire was to collect valuable feedback about the user experience when using the beta version of HOORT, specifically during the last testing stage before

its launching (planned for the beginning of 2023). Further tests within the HOORT online tool were performed by some beta users, also after the end of the Training Workshop. Feedback was sent to the SOCIB team in charge of the development of this tool in order to overcome some of the issues detected and finally fine-tune the HOORT tool.

## 4.A - Conclusions

The dedicated Training Workshop #1 on high frequency radars accomplished the objectives proposed with the training on the use of the e-infrastructure (JERICO-CORE), which provides with the understanding on how to utilise tools, data and services from JERICO RI. It also enabled to develop a harmonised approach to the development of products and services, also contributing to optimising resources.

The training on the use of the HOORT tool provided the users with an automatic online tool, which enables the HFR operators to easily follow the status of their networks and stations, issuing reports and outage alerts, allowing the operators to exchange valuable information among each other. Both tools were tested and the problems that were detected during the workshop were reported and tackled. The face-to-face component of this training workshop facilitated the rapid exchange of experiences, ideas and solutions between the various users present.

The workshop also promoted an insight and discussion concerning the best practices, data processing and quality control of the partners HFR data available through the HFR node.

Training workshops such as this promote the transfer of knowledge inside the consortium and also with external partners, strengthening the JERICO-RI community and the sharing of information, knowledge and technologies among a broad range of communities. It also encourages new synergies and new opportunities for collaboration, knowledge and data sharing.

## 5.A - Annexes and references

Attendees	Institution
Carlo Mantovani	CNR
Lorenzo Corgnati	CNR
Carlo Brandini	CNR and LaMMA
Vânia Lima	IH
Anna Rubio	AZTI
Lohitzune Solabarrieta	AZTI
Julian Mader	AZTI
Pier Paolo Falco	UNIPARTHENOPE
Vanessa Cardin	INOGS
Adam Gauci	UM
Fulvio Capodici	UNIPA
Jorge Sanchez	Qualitas Remos
Maria Fernandes	Qualitas Instruments
Carlos Santos Fernandes	IH Sensortech
Emma Reyes	SOCIB
Miguel Charcos Llorentes	SOCIB
Silvia PiedraCoba	CETMAR
Marcelo Magaldi	CNR
Jochen Horstmann	HZG
Vicente Fernandez	EuroGOOS
Teresa G. Updyke	ODU
Pablo Lorente	Puertos Del Estado