



JERICO – NEXT

Joint European Research Infrastructure network for Coastal Observatory –
Novel European eXpertise for coastal observaTories

WP5 – Data management dedicated meeting minutes

Thursday 17th of March 2016

London, UK

Novotel Excel

Report prepared by:

Margarita Bekiari and Leonidas Perivoliotis (HCMR)

Present

HCMR: Leonidas Perivoliotis, Margarita Bekiari

EuroGOOS: Patrick Gorringer

VLIZ: Simon Claus, Lennert Tyberghein

IFREMER: Thomas Loubrieu, Loic Petit de La Villeon, Sylvie Pichereau

CNR-SMAR: Giuseppe Manzella

SMHI: Karlson Bengt, Johanna Linders

SOCIB: John Allen, Emma Heslop

ETT: Antonio Novellino, Paolo D' Angelo

OGS: Elena Partescano, Rajesh Nair

MARIS: Peter Thijsse

SYKE: Seppo Kaitala, Jukka Seppala

NIVA: Pierre Jaccard

Apologies

AZTI: Julien Mader, Anna Rubio

HZG: Wilhelm Petersen

Meeting report

The JERICO - NEXT WP5- Data management progress meeting #1 was held in London, on Thursday 17th of March 2016 at the Novotel Excel. The minutes from this meeting are presented hereafter.

Leonidas Perivoliotis (HCMR) opened the meeting by welcoming the participants to London and to the first WP5 progress meeting of the JERICO - NEXT project. Leonidas started his presentation summarizing the main WP5 objectives and he mentioned that JERICO –NEXT is not building its own Data Center but the WP5 aim is to provide the required guidance in order the data that will be generated through the project's activities to be pushed into the major European Infrastructures (EMODNET, Copernicus, SeadataNet), where they will be discoverable and accessible by the marine community. Then he presented a summary of the information that was collected during the survey on the data that will be collected during the JRAPs activities. He pointed out that the physical and the major part of the chemical data could be released through ROOSes and INSTACs to EMODNET Physics/Chemistry, while for the biological data VLIZ should provide a robust data flow plan. Finally, he presented the Jerico Next Data WP5 roadmap regarding the required deliverables and milestones for the next 18 months and he gave the floor to the first speaker to give his presentation.

Patrick Gorringe (EuroGOOS), Task 5.1 leader spoke about the project's data policy and distribution. He spoke about the survey he performed regarding the recommendations on a free and open data policy for JERICO-NEXT by reviewing the existing data policy documents such as those prepared by WMO, IOC-IODE, ICES etc. He suggested that the PERSEUS data policy could be followed and he announced that a first version of this document will be presented in the next WP5 progress meeting. Regarding the release of the JERICO NEXT data catalogue, Patrick suggested that Sextant (<http://sextant.ifremer.fr>), which is a spatial data infrastructure for marine environment developed by Ifremer, could be used for the relevant catalogue of JERICO NEXT. It was discussed also with the WP5 partners the possibility of a template

preparation in order the JERICO NEXT partners to provide comprehensive information about the data that will provide to the project. Then, Patrick spoke about the specifications for a European Ferrybox data management system and he presented some ideas on how this system could be implemented. The discussion on this issue will be continued during the scheduled annual Ferrybox meeting that will be held at Heraklion, Crete on April 2016. Finally, he said that there is no yet any progress on the digital data citation.

Lennert Tyberghein (VLIZ) spoke about the integration of the biological data and he summed up the information in the data inventory template of the JRAPs 1 and 2, mentioning that the data deliveries of biological data are quite late in the project and this could be a problem. Then, he presented the international data flow of the biological data and he said that maybe new schemes for the novel methods and parameters should be developed in order these data to be properly integrated in the European infrastructures. During the discussion followed with WP5 partners, Lennert and Simon mentioned that in the JRAP1/JRAP2 meeting in June, the next steps regarding the biological information will be discussed and the required steps will be more clearly defined.

Thomas Loubrie (IFREMER), Task 5.3 leader, presented a first demo of the platform registration and metadata system that was built on the Sensor Nanny environment that widely relies on owncloud file sharing tool. The system provides a user-friendly interface where the data provider can build its own observatory by adding the different recording components that are extracted from the EMSO yellow pages. When the building of the observatory is finished, the complete metadata information is saved in Sensor ML format and it can then be widely populated to bigger infrastructures. When data will become available from this observatory, the user can drag and drop them in the owncloud environment and then all the connected users will be alerted for this new upload. A live discussion was followed this presentation on what types of systems can be included on this system, how the actual data will be connected with the infrastructures, etc. Thomas said that the system is still under development and all these issues will be addressed during the project's lifetime. He proposed that some prototypes should be built for a number of targeted systems of

JERICO NEXT in order to start testing the capabilities of the pushing procedures. It was proposed that links should be built also with the JRAP activities of the project but it was decided that since the system is under development, it will be better to try as a first step to connect it with some existing operational oceanography infrastructures and then with the JRAPs.

Giuseppe Manzella (CNR – ISMAR), Task 5.4 leader, talked about the data management best practices and generic data and metadata models. He presented elements of the draft report that he has already prepared and it is scheduled to be delivered on M20, saying that the objective is not to provide an overview of best practices on data management and on metadata models since all the necessary information can be found in many documents accessible via internet. The objective of this task is to provide the clarification of links existing between Quality Assessment/Quality Control protocols and ISO Quality Elements, and suggest how all these elements could be included in a metadatabase. After a discussion with the WP5 leader and Loic Petit de La Villeon, it was agreed that a revised version of the handbook that was prepared in PERSEUS project on the release of Near Real Time data to be included in the D5.9 deliverable.

Karlson Bengt (SMHI), Task 5.5 leader, presented the basic steps on the quality control procedures that should be applied on the Ferry Box data and then he introduced the software for the QC of the FB biochemical data from that has been developed by SMHI. During the discussion that followed, it was recommended that this software should be opened to the JERICO NEXT partners in order SMHI to get the necessary feedback. It was also suggested the Input/Output system of the software to become more standardized and options for plugin attachments to be also available. It was suggested that efforts should be made by SMHI in order to build a generic tool that could be used by the whole European FerryBox community. Finally, Karlson presented also some ideas on the Specifications for a European FerryBox data management system (D5.3), since SMHI has the responsibility of this deliverable.

John Allen (SOCIB), Task 5.7 leader talked about the scientific calibration procedures on gliders data collection, using CTD data, and the forward steps that were made since

the project's KO meeting in Majorca. He asked HCMR and CNRS to define the contact persons for this task, and then he spoke about the plan for the first 18 months in order the project's milestones to be reached. He announced the organization of a workshop during June 2016, where the gliders partners will discuss for the procedure standardizations on the glider metadata.

Antonio Novellino (ETT), coleader of Task 5.8, spoked about the linking of the JERICO-NEXT activities to a Virtual Access infrastructure. He talked on the different definitions of the Virtual Access term that exist in the official EU documentation that imposes confusion on what is actually needed by this project's activity and he pointed out that very few VA systems related to marine environments currently exist. He then presented some ideas on how the work on this task should be continued, mainly by studying the available VA services listed in WP6, defining how these are technically run and what is their required input and output and analyzing the possible performance, access and security issues. Finally, Antonio made a short presentation on the progress of QC procedures for the HF Radar data (**Task 5.6**) as it was presented by AZTI during the Jerico NEXT HF-Radar meeting, held in San Sebastian on 9-11 March 2016.

Summarizing, the following actions were agreed regarding the WP5 implementation actions during the forthcoming months:

- A first version of the deliverable "D5.1 Preparation of a document with recommendations on free data and open policy" will be available during the next WP5 progress meeting (M18) (**Patrick Gorringe, EuroGOOS**).
- Introduce "Sextant" as the tool for the building of the JERICO NEXT data catalogue. Preparation of a template in order the JERICO NEXT partners to provide comprehensive information about the data that will provide to the project. (**Patrick Gorringe, EuroGOOS**)
- Significant input is expected from the 7th FerryBox Workshop that will take place in Heraklion regarding the specifications on the European FerryBox Data Management System. (**Patrick Gorringe, EuroGOOS, Karlson Bengt, SMHI**)

- Specifications of the plan regarding the biological data integration is expected by VLIZ during the forthcoming months. During the JRAP1/JRAP2 meeting in June, the next steps regarding the biological data integration will be defined. **(Simon Claus, Lennert Tyberghein, VLIZ)**
- Some prototypes of the platform registration and metadata system should be built for a number of targeted systems of JERICO NEXT in order to start testing the capabilities of the pushing procedures **(Thomas Loubrieu, Ifremer)**
- A first draft of the revised version of the handbook that was prepared during the PERSEUS project on the release of Near Real Time data to be released by Ifremer in order to be attached as a separate annex in D5.9 deliverable **(Loic Petit de la Villeon, Ifremer)**
- The software for QC of biochemical data from FerryBox should be opened to the JERICO NEXT partners in order feedback to be received. **(Karlson Bengt, Johanna Linders, SMHI)**
- Organization of a JERICO NEXT workshop by SOCIB in June 2016 to standardize the procedures for handling the glider metadata. **(John Allen, Emma Heslop, SOCIB)**