Joint European Research Infrastructure network for Coastal Observatories

JERICO

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Report after the JERICO midterm review –June 2013

Grant Agreement n° 262584 Project Acronym: JERICO <u>Project Title</u>: Towards a Joint European Research Infrastructure network for Coastal Observatories <u>Coordination</u>: P. Farcy, Ifremer jerico@ifremer.fr, www.jerico-fp7.eu:

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1. Document description

Document information			
Document Name	Report after the mid-term review		
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Revision	Date	Modification	Author
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1.5	30/07/13	Add on and corrections	S.Sparnocchia
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Diffusion list				
Consortium beneficiaries	Х			
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Associated Partners	Х			
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2. Organisation & overview of the mid term review agenda

The mid term review agenda is presented hereafter.

Time slot	Торіс	Comments		
Tuesday, 18 th of June				
13:45-14:00	Registration of participants	-		
14:00-14:15	Welcome and introduction by Patrick Farcy	-		
14:15-14:30	Welcome and introduction by Agnès Robin	-		
	Project presentation and main objectives (P. Farcy)			
14:30-15:10	- Status of JERICO at M24 - Debriefing of the first interim report process and major achievements during M24			
	- Discussion/ questions (15')			
	Financial issue (M. Pichard)			
15:10-15:40	- Overview of claimed expenses at M18 - Discussions/ Questions (15')			
15:40-16:00	Coffee Break			
16:00-16:30	WP1 - Overview of the WP1 (P. Morin) - Main achievements - Summary of deliverables and milestones status - Next steps: agenda of activities and roles - Discussions/ Questions (15')			
16:30-17:00	WP2 - Overview of the WP2 (H.Wehde) - Main achievements - Summary of deliverables and milestones status - Next steps: agenda of activities and roles - Discussions/ Questions (15')			
17:00-17:30	WP10 - Overview of the WP10 (G. Nolan) - Main achievements - Summary of deliverables and milestones status - Next steps: agenda of activities and roles - Discussions/ Questions (15')			
wednesday, 19 of Jun	G			



08:45-09:00	Registration of participants			
09:00-09:30	WP3 - Overview of the WP3 (W. Petersen) - Main achievements - Summary of deliverables and milestones status - Next steps: agenda of activities and roles - Discussions/ Questions (15')			
09:30-10:00	WP4 - Overview of the WP4 (G. Petihakis) - Main achievements - Summary of deliverables and milestones status - Next steps: agenda of activities and roles - Discussions/ Questions (15')			
10:00-0 :30	WP5 - Overview of the WP5 (R.Nair) - Main achievements - Summary of deliverables and milestones status - Next steps: agenda of activities and roles - Discussions/ Questions (15')			
10:30-10:50	Coffee Break			
10:50-11:20	WP6 - Overview of the WP6 (D.Mills) - Main achievements - Summary of deliverables and milestones status - Next steps: agenda of activities and roles - Discussions/ Questions (15')			
11:20-12:00	WP7 - Status of SA delivery (Loic Petit de la Villéon) - Next steps: agenda of activities and roles - Discussions/ Questions (15')			
12:00-12:30	WP8 - Overview of the WP8 achievements deliverables, milestones (S. Sparnocchia) • Status of 1st call TNA agreements and deployments • Status of 2nd call for TNA: list of received proposals etc. • Third call proposal - Next steps: status of WP8 tasks, agenda of activities and roles - Discussions/ Questions (15')			
12:30-13:45	Lunch			



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13:45-14:30	WP9 - Overview of the WP9 (S.Dobricic) - Main achievements - Summary of deliverables and milestones status - Next steps: agenda of activities and roles - Discussions/ Questions (15')		
14:30-15:00	WP11 - Overview of the WP11 (P.Farcy) - Main achievements - Summary of deliverables and milestones status - Expected amendments to the JERICO contract - Next steps: agenda of activities and roles - Discussions/ Questions (15')		
15:00-15:30	 Summary of actions and next steps (P.Farcy) Concluding comments Agnès Robin and J.M. Beckers 		
15:30	End of Mid Term Review		



3. Mid-term review meeting

3.1. List of participants

Structure	Contact
	Patrick Farcy
IEDEMED	Loic Petit de la Villéon
	Dominique Gueguen
	Maëlle Pichard
SYKE	Jukka Seppälä
IBWPAN	Malgorzata Robakiewicz
DMI	Weiwei Fu
ΝΙΙ\/Δ	Kai Sorensen
	Dominique Durand
IMR	Henning Wehde
DELTARES	Nicky Vilars
OGS	Rajesh Nair
CNR	Stefania Sparnocchia
HCMR	George Petihakis
	Richard Sanders
NERO	David White
HZG	Wilhelm Petersen
MUMM	Stephanie Ponsar
CEFAS	David Mills
SMHI	Bengt Karlson
CSIC	Joaquin Tintore
NIOZ	Sander Wijnhoven
MI	Glenn Nolan
BL	Simon Keeble
TECNALIA-AZTI	Julien Mader
	Pascal Morin
	Antoine Gremare
IH	Sara Almeida



IO-BAS	Atanas Palazov
PUERTOS	Begoña Perez Gomez
CMCC	Srdjan Dobricic
EuroGOOS	Patrick Gorringe
UE (EC project officer and	Agnès Robin
independent reviewer)	J.M. Beckers
French Ministry of Research	Bertrand Commère

Excused:

Aldo Drago (UOM) represented by David Mills.

Livia Cassai (INGV).

Ingrid Puillat (IFREMER) on sick leave.



3.2. Minutes of the mid-term review

3.2.1. Project presentation and main objectives –Status of JERICO at M24 by Patrick Farcy- Ifremer

Slides are available on the following pages.

Toward a long term and sustained European network of coastal observatories: JERICO. The project is about coastal observation. We are working on three kinds of platform:

- Glider
- FerryBox
- Fixed platforms



The main objective of JERICO is to prepare a future European network of operational coastal observatories through:

- Better coordination in structuring each community related to the three observing systems: glider, FerryBoxes and fixed platforms
- Increased harmonization of existing infrastructures
- Exchange of know-how and definition of Best Practices
- Promoting coastal oceanography through TNA
- Agreed on deployment needs and gaps
- Promote technological innovation (FCT and WP10)
- Development of a future strategy for coastal oceanography



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Why JERICO?

We have to address some R&D challenges to monitor and understand the complexity and high variability of coastal areas at Pan-European level.

How can we promote the sustainability of coastal observing systems?

The JERICO vision is to make significant contribution to the harmonization of existing European coastal observatories and to support future strategic developments.

Main events during the 1st period:

- May 2011: Kick off meeting and 1st Steering committee - Paris
- August 2011: 1st FerryBox best practices workshop HZG
- January 2012: First TNA call
- January 2012: Workshop on calibration SYKE
- February/march 2012: Workshop on fixed platforms best practices CNR Roma and WP10 **Kick-off meeting**
- May 2012: Workshop on Glider best practices CSIC Majorca •
- October 2012 in Héraklion -HCMR:
 - "General assembly #1" and 2nd Steering committee
 - "TNA selection panel review" meeting
 - 2nd round workshop on best practices (all observatories)
 - Workshop on future strategy for coastal observatories

Reports and Communication issues:

In addition to contractual obligations such as deliverables, the overall communication on JERICO related topics is organized via several ways:

- JERICO website with OCEANBOARD (information site for professional and no professional public)

- - An article in International Innovation journal
 - A JERICO newsletter, created by the JERICO management team
 - A Linkedin group about JERICO to enhance the publicity of our project

Deliverables and milestones:

Before M25: 30 deliverables were to be provided and 18 were submitted before M24.

1 deliverable postponed to M27 (1st summer school), 1 deliverable postponed to M42 (instead of M24, due to a typing error on the DOW).

Before M24: 11 milestones were to be provided (9 are achieved).

Key points and discussions:

J.M. Beckers asked a question on Operating cost of infrastructure: who is paying?

G.Petihakis: In the framework of JERICO a questionnaire was sent to the consortium asking about recorded cost of maintenance and calibration of infrastructures from the partners.









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3.2.2. WP11: Administrative and Financial management by Maëlle PICHARD-IFREMER

Slides are available on the following pages.

Costs are calculated with regards to Work Package activities: a balance distribution of such costs can occur within WPs of a same activity.

The total eligible costs presented by the 27 beneficiaries of the JERICO project represents 2,677,903.36€ with a requested EC contribution of 1,911,103.85€, which represent respectively 29.96% and 29.40% of the planned budget.

- Wp1: The first period has been time consuming, as it will be during the third period of the project to prepare the project conclusions and the roadmap for the future.
- Wp2: A lot of activities were carried out in the framework of WP2 because of the workshops organization and questionnaires preparation. INGV didn't declared any person-months and costs during the first eighteen months of the project.
- Wp3: In the framework of this WP, many activities were carried out during the 1st period because of the organisation of the « Best practices workshops » and of the questionnaires preparation.
- Wp4: The WP4 has a high percentage of realised cost with 44.29%.
- Wp5: less than 25% of planned budget for this WP has been spent, subcontracting are ongoing.
- Wp6: is going well according to the financial analysis of this WP.
- Wp9: Normal level of spending. Due to an internal error, IFREMER didn't declare any person-month on this WP. It will be corrected on the next financial form.
- Wp10: 24.27% of WP10 budget has been spent.
- Wp11: higher percentage of realized costs (45%). A considerable effort has been made on the management to launch the JERICO project.

Each beneficiary received a financial analysis of M18 reported expenditures by email with three different documents:

- Financial analysis of M18 reported expenditures : a pie chart and comments on expenses
- Expenditures per WP
- Expenditures by type of activity and person month for each WP

Key points and discussions:

Comments A. Robin: It doesn't matter if there is an unbalanced involvement of partners, what the EC wants to find out is if all the work is done. The Seven framework programme is quite flexible so we can re-allocate budget among beneficiaries and categories when necessary, as long as tasks and deliverables are in line with the grant agreement.







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3.2.3. WP1: A common strategy by Pascal Morin – CNRS

Slides are available on the following pages.

Tasks presentation

The objective is to develop a common strategy for a pan European network of operational coastal observatories to address the challenge of observing the complexity and high variability of coastal areas.

4 major actions:

- 1- Set up an European research infrastructure
- 2- Creating a JERICO label (standardization of operations and activities)
- 3- Organizing a Forum for Coastal Technology: FCT (JRA WP)
- 4- Promote access and open access to JERICO network

The JERICO project strives to meet key environmental challenges and knowledge gaps for OCO (Operational Coastal Oceanography) such as: assessment of environmental status, better understanding of functioning of coastal ecosystems, trans-boundary pollution transport, control and validation of operational models...).

To address efficiently these challenges, JERICO needs a common consensual strategy implying:

- Integration of existing observing systems,

- Definition of a framework for future systems dedicated to operational monitoring of the coastal environment,

- Optimal designing of future networks.

This common strategy requires a better knowledge on:

- Present key-environmental parameters (WP2 and WP3)
- Emerging key-environmental parameters (WP1 and WP10)
- Sampling requirements (WP2 and WP9)
- Elements of costs efficiency (WP4 and WP10)
- Standardization (WP3, 4 and 5)
- Data dissemination (WP5, 6 and 7)

The overall objective is to create coordination between WPs. In WP1, there are 6 main tasks. Task 1.4 "Definition strategy and interfaces with the monitoring of marine biodiversity" was delayed due to Carlo Heip death in autumn 2012. Sander Wijnhoven from NIOZ will take over this task.

The JERICO label couldn't be defined at the beginning of the project as we need input from WP3 and WP4. That's why the deliverable D1.4 was postponed.

The task 1.5 "Roadmap for the future" will be an important step as this task includes the analysis and synthesis of the deliverables of all the WPs to elaborate recommendations for new implementation of coastal observatories (cost/benefits, level of running costs, optimization of



existing funding, proposing a pan European governance, ...)

Existing synergies between NA, JRA and TNA will allow us to speed up the implementation of new technologies and it generates adding values within the project and towards industry.

Main achievements of WP1:

- Definition of a common strategy : launching an European strategic view on OCO, implementation by the WPs
- TNA calls
- Terms of reference for the FCT and first FCT workshop in Brest

Next steps:

- Third call for TNA proposals
- Second FCT workshop
- Definition of a strategy and interfaces with the monitoring of marine biodiversity
- 4th and 5th Steering Committee meetings
- Formulation of the "Roadmap for the future"

Key points and discussions:

J.M Beckers: Task 1.2 definition of a label for coastal observatories, the submission of this deliverable was delayed. Why?

G. Petihakis: In order to define a label for coastal observatories we need inputs from WP3 and WP4. That's why we need to have a longer reflection on this deliverable.

J.M. Beckers: Do you plan to include a long-term commitment for the label?

G. Petihakis: It has been discussed. We want to include some topics like the sustainability. We will put a draft on the NEF, which will be under discussion.

A. Robin, question slide 7, on environmental challenges: Do you have any priority order regarding environmental challenges?

P. Morin: The priority is to have a good assessment of environmental status and modelisation.

A. Robin: Which type of proposals did you receive regarding TNA: technological infrastructure developments or more research projects?

P. Farcy: Proposals are fairly balanced, this will be discussed with Stefania Sparnocchia tomorrow during her presentation.













I S S I S S I S S I S S I S S I S S I WP1: A common strategy - Status of **Miles tones** WP1: A common strategy – Next Steps Internation Infolution Next Deliverables Next Milestones WP 1 - List of Deliverables Scheduled Milestones Fourth Steer. 36 committee report Five Steering 45 committee Delivery Status Deliverable Deliverable Title urth Steering mmittee outputs 1511 Number date Second assessment of the 36 Five Steering committee output D1.8 **NS12** FCT activity Proposed strategy of the access activity report User report of activities D1.9 36 nal report M513 47 Fi Second report of the access activity admap for the 42 1514 48 nal report D1.10 uture D1.11 48 Final Report TITLE - JERICO - 19 TITLE - JERICO - 20 www.jerico-fp7.eu



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3.2.4. WP2: Strengthening regional and trans-regional activities by Henning Wehde -IMR

Slides are available on the following pages.

Tasks presentation

This WP is co-lead by Patrick Gorringe, from EuroGOOS. In this WP, there are 7 partners, 2 tasks, 5 deliverables

List of deliverables:

- D 2.1, Report on existing observation network from all ROOs : review of the present status of the observation systems provided by EuroGOOS
- D2.2, Report recommendations for future research and developments: the aim is to provide an overview of the main challenges that existing observational systems are facing. This will help providing an integrated status of the marine environment and to identify knowledge gaps.
- D2.3, Integrated pan European Atlas/first report on Coastal Observing systems. H. Wehde should provide a draft of this report by the end of the month.
- D2.4, Demonstration of the feasibility of joint trans-regional product, E-HYPE: development and set up of an operational hydrological forecast tool for delivering high-resolution real-time and forecast fluxes of water and nutrients to Europeans seas; demonstration of a possible approach to a pan European transport.
- D2.5, Integrated pan European Atlas/second report on Coastal observing systems: the aim is to provide an updated overview and reference to the existing European observing systems at the end of the project.

Issues, Next steps, agenda of activities:

Most of the deliverables are late, but with the finalisation of deliverable D2.3 (expected delivery of Version 1.0 by the end of June) the WP2 is on track again. The next meeting dedicated to WP2 will be in connection to the EuroGOOS annual meeting (19th November). WP2 will also contribute to the main strategy for the future coastal observatories.

INGV should contribute a little more to the effort on the Mediterranean Oceanography Network for the Global Ocean Observing System (MONGOOS). There is a severe lack of data from the Mediterranean MONGOOS observatories.

Key points and discussions:

J.M. Beckers: What are the specific aspects of JERICO comparing to EuroGOOS?

H. Wehde : EuroGOOS is on a larger scale, JERICO is on coastal observatories. EuroGOOS is mainly focusing on physical parameters. JERICO could have an added value.

D. Mills: Are they planning to make deliverable dynamic?



H. Wehde: deliverables are contributing to the overall picture; it has to be updated in the future.

D. Mills: In 2014, member states must have their national monitoring programme. Fixed platforms will be important this year.

H. Wehde: We can't see JERICO has one part. We have to include and to combine with others consortiums working on observation and to participate to the national monitoring programme.

D. Mills: Concerning the pan European map, each member state has to be very clear on how we will assess good environmental status. It does seem to me to be a valuable exercise to say what each country is doing on this topic. Regarding collecting data, how does each country define the good environmental status? Each partner within JERICO could share information about it, as there is a lack of information across Europe on this topic.

B. Karlson: if we address everything from the integrated marine policy there are a lot of themes and descriptors, and indicators inside the descriptors. For generating these indicators, of course we need data; that is to say we need data and to ensure the sustainability of these data.

P. Farcy: During the last JPI Oceans meeting, we stressed to the JPI Oceans that the sustainability of the entire chain is essential from data acquisition and to its delivery. As a second proposal, we insist on the link between data management and research.

A dynamical map is an interesting point, it can be done within EuroGOOS, and of course JERICO will contribute to that activity.

H. Wehde: we don't have to think only JERICO, but to integrate the overall picture.

The overall challenge is to coordinate these activities to have an "operational maturity" in order to "find the information (descriptor as example)" in the large amount of complex data.



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3.2.5. WP10: Improved existing and emerging technologies by Glenn Nolan-MI

Slides are available on the following pages.

Tasks presentation

WP 10: JRA emerging technologies (Improve system components). The main objective of this WP is to improve system components, and to make recommendations.

6 keys subtasks in WP 10:

- Biological compartments
- Contaminants
- Profiling technology
- VOS
- Quality insurance for FerryBox data
- SPM inter comparison: no cost implication for the project. To what extend can we use buoys information?

Because most deliverables have to be delivered by the end of the project, the time already spent on this WP mainly focused on field aspect to the demonstration.

\rightarrow Task 10.1: "Monitoring of key biological compartments and processes"

This task is dealing with acquisition techniques and analysis of in situ sediment profile images to infer the ecological quality status of benthic habitats using either existing or newly developed indices.

The video imaging provides single snapshots showing water sediment interface, biological phenomena, classification of the object thank to video imaging. The technic is based on image recognitions technique.

One of the main scientific question is "How does a specie dominate a sediment?"

The objective is to try to have an end to end plankton community. Future developments of in situ systems dedicated to the zooplankton community are taken in account.

In the framework of JERICO, it is planned to have common softwares dedicated to image analysis and data management for flowcam, Zooscan. Other instruments are taken in account for other size ranges.

Working progress 2011-2012: 3 testing different softwares:

- Develop an integrated suite of softwares
- Test different protocols for sampling



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• Testing different software settings for optimization of the (semi-)automatic recognition of plankton groups and additional collection at point B. This work has just started and is on progress.

→ Task 10.2.1: "Contaminants"

This task is dealing with development of physico-chemical sensors and their implementation on new platforms.

A prototype of chemical extractor has been tested between Oslo and Kiel in the framework of "Chem. Mariner" project. In this context, Polyethylene membranes are/were brought to laboratory for analyzing of PAH, PCB and some pesticides.

→ Task 10.2.2: "Development and implementation of sensors for the algal pigments on ships"

This task is aiming at reviewing existing instruments for spectral measurements. The multivariate analysis of spectral data sets to detect spectrally distinct phytoplankton is on the way. The idea is to give assessment on sensors capabilities, particularly for pigment detection.

→ Task 10.2.3: "carbonate system"

This task really focuses on FerryBox sensors. The Franatech pCO2 systems deployed on FerryBoxes have been tested, with the objective to compare the precision between the two measuring systems (pCO2/ and PH) and to have it in a single systems, in a standard FerryBox.

Upcoming activities:

- Combine pH and pCO2 into one system
- Deployment for long term tests on three ship routes (seasons, years)
 - Kattegat/Skagerrak (low saline water, high Chl-a)
 - Coastal areas (Fjords, Rivers mouth)
 - Barents Sea (cold waters/Arctic)
- Long term technical experience
- Long term calibrations experience (NOAA-gas)
- Establish the overall precision and accuracy
 - Comparison and implementation in the monitoring program
 - Hopefully implementation into the monitoring programs?
- Comparisons with other systems
 - GO-System, other membrane systems and other detectors

\rightarrow Task 10.3: "Emerging technology – profiling technology, inter-comparison with mature technology"

Profiling today focus on physical parameters of the ocean. EOL profiler: Glenn Nolan has showed the evolution of EOL buoy version. It's now larger and bigger, we are making a full step in profiling.



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OGS buoy has been refitted and is ready to use. Tests on float system have been performed in late May. The ARVOR-C (initially named PAGODE) float is to be shipped from IFREMER soon and the experiment is planned for summer 2013.

A weather station has been implemented which is a good way to reach a larger public.

\rightarrow Task 10.4: "Vessels of opportunity: Volunteering observation system"

Glenn Nolan showed autonomous surface vehicles: kayak, small motorize vehicle, wave ladder...

Laurent Delauney will hold a conference in September on autonomous surface vehicles. Laurent Delauney is working on prototype proposal also (MOBESENS kayak, VAIMOS sailing boat).

Upcoming activities:

- Working plan for Adriatic experiment is presented
- Working plan for Irish Seas experiment is presented
- On national RVs for remainder of 2013
- Deploy on 10 Fishing Vessels in TOP 2014.

→ Task 10.5: "Ferrybox quality assurance algorithm"

 \rightarrow Task 10.6: "Remote sensing of suspended particulate matter concentration, inter-comparison, with smart buoy and benthic lander (MUMM)"

- Tripods have recorded extensive data sets of continuous time series of SPM (Suspended Particle Matter) near the bottom.
- Large synoptic scenes of surface SPM concentrations may be retrieved from satellites
- Surface is missing link to the deep via water column description

Next steps in WP10:

- Planned WP10 meeting in late October 2013 in Nice (France).
- Demonstration surveys: scientists from the imaging community are needed!
- Adriatic profiler experiment (summer 2013)
- SOOP demonstration (Brest, October 2013)
- Push ahead with Adriatic and Irish Sea RECOPESCA activity
- 10.5 and 10.6: Ongoing

Key points and discussions:

J.M. Beckers: You showed a lot of interesting developments. Do you have any strategy to promote your work?

G. Nolan: we have mechanisms to open means and interact with industrials, to bring it to the next stage.

J.M. Beckers: Which tool gets the priority?

G. Nolan: The more efficient. It's hard to know for the moment which ones are going to reach commercialisation.



J.M. Beckers: Do you expect to have at the end of JERICO a list of tools which can be use?

G. Nolan: probably at the end of the project, as we should have a better overview.

A. Robin: Image recognition; is it specific to coastal environment?

A. Gremare: no, you can use for deep-sea observation. Sediment profiling can be used until 3000 meters.

P. Farcy: for the WP10 workshop in October, it will be open to the overall community. Teams that can use the tools developed within JERICO will be invited, and some teams sharing the same objective to define the best tool for the future will also be invited. That's the objective of the workshop in October.

J.M. Becker: In WP10, only 25% of the budget planned has been spent. How do you explain it?

G.Nolan: The tasks have started after the other WP. The WP10 Kick off meeting was in March last year. Also CNRS Person-Months are not fully accounted in this task. Indeed CNRS is in charge of the task 10.1 but persons in charge of this task are working in a joint research unit at the University of Bordeaux which is not yet contractually involved in the contract (clause 10). That's why we didn't count their time on the project yet. An amendment to the contract is in preparation.

D. Mills: comment on the software: developing the protocol to rapidly translate information is essential. The operational maturity of the system is also part of what we are doing.

A. Gremare: the complexity of the data makes it independent of the operator, that's why software is a key element for interoperability.












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3.2.6. WP3: Harmonizing Technological aspects by Wilhelm Petersen-HZG

Slides are available on the following pages.

Tasks presentation

General objectives of this WP are:

- To provide a common basis for the operational use of FerryBoxes, gliders, fixed platforms along European coasts;

- To review current status of existing systems in European seas.

- To define best technical solutions for compatible, robust, and cost-effective systems.

- To define procedures for harmonizing and merging quality assessed FerryBox and Fixed platform data at regional (ROOS) level.

- To provide technological solutions for testing and integrate new sensors on the different platforms.

4 workshops have been organized on FerryBoxes, gliders and fixed platforms.

3 Reports on current status of FerryBox systems, glider observatories within Europe and on fixed platforms have been delivered.

They are partly overlaps between WP3 and WP4 concerning best practices on technical solutions. That's why we did a re-definition and clarification of work distribution, including a joint workshop.

- WP3 will focus on best practices with regards to technical solutions including recommendations for installation of new platforms.
- WP4 will focus on best practices for operation, maintenance of each platform and for general sensor calibration for each platform type.

A report on fixed platforms in Europe including sea level stations is presented. The map of fixed platforms in Europe has to be updated. We can see the sea level also on EMODnet.

Summary of the fixed platform report: 89 identifiable marine observing systems are accounted. JERICO partners are involved in nearly 40% of these fixed platforms.

Next steps:

- Harmonization and merging data quality assessed from fixed platform. Standardise the outputs of fixed platforms with other systems such as FerryBoxes.
- Continuous work on deliverable D3.1-D3.3 including regular updates.
- Pushing common real time quality control algorithms for harmonizing and merging data quality assessed from FB systems and other systems onboard ships of opportunity (i.e. fishing vessels) and within ROOS regions. Partly already fulfilled by delivering FB data to MyOcean project.
- Test sites will be the North Sea and Adriatic Sea.
- Comparison of new sensors and assessment for Fixed Platforms (FP) in conjunction with



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WP10

- Contributions to deliverable D4.4, best practices for the three different platforms (FB, FP, GL) within the working groups established in Crete.
- Further deliverables : D3.4/D3.5

Key points and discussions:

J.M. Beckers: for fixed platforms, how does someone from outside Emonet or JERICO can give its data?

W. Petersen and P. Gorringe: The best resource to get data is to reach regional database.

A. Robin: on fixed platforms map in Europe, how many platforms on this map and is it reflecting the current regional distribution, in particular in Mediterranean Sea?

W.Petersen: on this map there are 900 platforms, only fixed platforms.

The commission works on integrated monitoring, we need firstly to know what is there before the integration. It's vital to look at complementary, at regional scale also.

P. Farcy: there is a lack of observing systems (platforms) in the Mediterranean Sea and in the Black Sea according to this map.

P. Gorring: There is not much real time data there. For instance in Turkey: everything is stocked to the Mediterranean TAC. But this is slowly shifting. For example 6 months ago, they finally succeeded to get the data from Italy.







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 SUMMARY FIXED PLATFORM REPORT Imaginity of station entries in the database contain at least the most basic meadata (i.e. station name or number, location, institution and variables meadata (i.e. station name or number, location, institution and variables meadata) Total number of station: 916 Total number of station: 916 463 sea level measuring stations, 446 sea temperature stations 237 wave measuring stations were 30 of the 80 systems belong to organizations who are partners in the JERICO point. a JERICO partners are therefore responsible for 39% of Europes fixed platforms 	 WP3: NEXT STEPS Harmonization and merging quality assessed data from fixed platform (T 3.3.3). Harmonise the outputs of fixed platforms with other systems such as FerryBox. Continous work on Deliverables D3.1 – D3.3 including regular updates Pushing common real time quality control algorithms for harmonizing and merging quality assessed data from FB systems within ROOS regions (T 3.1.3.). Partly already fulfilled by delivering FB data to MyOcean) Test sites will be the North Sea (Cefas, HZG, Ifremer) and Adriatic (CNR).
 WP3: NEXT STEPS (cont) Comparison of new sensors and assessment for FPs (T 3.3.4) in conjunction with WP 10 Contributions to deliverable D 4.4. Best Praxis for the three different platforms (FB, FP, GL) within the working groups established in Crete Further deliverables: D 3.4. Report on new sensor developments (M36 = May 2014) D 3.5. Conclusion report (M42 = Oct 2014) 	



3.2.7. WP4: Harmonizing operation and maintenance methods by Georges Petihakis-HCMR

Slides are available on the following pages.

Tasks presentation

Regarding the WP structure, there are three main tasks:

 \rightarrow The first task is dedicated to calibration, the objectives are:

- To standardise and to harmonise various facilities across European networks: a questionnaire on calibration issues was developed. Results were presented during the 2nd JERICO WP3&WP4 common workshop on fixed platforms in October 2012. The main conclusions are to enlarge the community of operators of in-house calibration facilities, to promote the adoption of accreditation for the calibration, to homogenize calibration approaches and to set up a permanent calibration-working group.
- To share existing calibration facilities within the network, thus significantly reducing costs. The implementation of common calibration exercises was actively discussed.
- To transfer know-how within the network through a series of workshops, seminars and staff exchange.

5 common events between WP3&WP4 were organized.

 \rightarrow The second task on bio fouling prevention, the objectives are:

- To describe all different methods used across the network with reference to the cost and adaptability: a questionnaire on bio fouling was prepared and results were presented during the 2nd JERICO WP3&WP4 common workshop on fixed platform. Emphasis was on which are the most reliable sensors and on the description and evaluation of different methods in terms of actual costs.
- To share best practices and methodologies across the network with the aim to step towards a common approach. In this framework, the three specific workshops on fixed platforms played a significant role. In addition, during the common workshops in Rome and in Heraklion it was decided to perform a common biofouling experiment where selected partner sites will act as test beds.

Working in the frame of a group helped to set up an experiment evidencing what biofouling is doing to our sensors across our network covering from the eutrophic seas in the northern area to the most oligotrophic in the southern area. As a consequence, working in a topical group gave an added value to the experiment.

Marco Faimali (CNR) prepared a device to be deployed for one year by selected partners. The process of biofouling will be recorded through photographs. By the end, samples will be taken and analysed by the CNR.

• To evaluate new methods used by the community external to JERICO, to identify and to suggest possible future implementation. This is a future action. Part of it, will be dealt in the "best practices" actions and it will help us to know what people outside JERICO are doing.

 \rightarrow The last task: end to end quality assurance, the objectives are to:

• Describe best practices in all phases of the system. At the beginning we thought to proceed



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with a questionnaire, but during the Rome workshop it was decided for CALIBRATION and BIOFOULING to identify key-persons for each sensor/technology who will lead the work. Their responsibilities include describing the best practices for the sensor calibration of each parameter or group of parameters, distribute the information, recommending methodologies and issue protocols. The work was presented during the Heraklion workshop 4&5th of October 2012 as well as best practices on fixed platforms were discussed and two working groups were formed.

• Adopt common methodologies and protocols. This second objective is a continuous effort with discussions being more and more integrated. During the Heraklion workshop it was decided to produce a white paper for dissolved oxygen sensors and to explore the possibility to design and implement a CO2 calibration experiment in the HCMR calibration facility.

• Move towards the harmonization of equipments, which will help in reducing maintenance and calibration costs. It's also a continuous effort and results will stem out from the common activities within the network. A significant objective of WP4 is to record the "Running costs" associated with each platform.

Next steps:

To strengthen the calibration activities and work towards the milestone "Constitution of a permanent JERICO Working Group for Calibration Activities" we are preparing a COST proposal in September 2013 on calibration.

Key points and discussions:

P. Farcy: about the first experiment on gliders, do you plan it soon?

J. Tintoré: Our next action will be the calibration. The work that we have to do on gliders is much more important that what is written in the DoW. They already have a nice review of glider procedures. CSIC has a good overview on gliders.

P. Farcy: At the GROOM assembly, they said that they were very interested by the white paper (we have to send mails and information to Pierre Testor).

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Status Task 4.3 Biofouling

3rd Objective <u>habababa</u> Internation 11 sites (open wate New methods used by the community external to JERICO and coastal water) will be evaluated to identify and suggest possible future along a European geographical gradient implementation This is a future action although a part of it will be dealt in the Best Practices (Laurent and Marco). Mid Term Review - JERICO - 14 **Status** Status Task 4.3 E2E QA Task 4.3 E2E qa 1st Objective Information **Internation Objectives** > To describe best practices in all phases of the system (predeployment test, maintenance, calibration etc >To describe best practices in all phases of the system (pre-Although originally was thought to proceed with a questionnaire during the Rome workshop it was decided for CALIBRATION and BIOFOULING to identify key-persons for each sensor/technology who will lead the work. Their responsibilities include describing the best practice for the sensor calibration of each parameter or group of parameter, deployment test, maintenance, calibration etc) > To adopt common methodologies and protocols distribute the information, recommend methodologies and issue protocols. The work was presented during the Heraklion workshop 4&5 of October 2012. > Move towards the harmonisation of equipment, which will help in Biofouling best practices for Optical and Physical Sensors reducing maintenance and calibration costs. For this inter calibration Calibration best practices for tests and in-situ validation will be organised and "Running costs" ✓ <u>Chl-a</u>, ✓ <u>Temper</u> associated with each platform will be recorded. Conductivity, ✓ Chemical and Oxygen sensors. Mid Term Review - JERICO - 15 Mid Term Review - JERICO - 16 Status Task 4.3 E2E QA Status Task 4.3 E2E QA 1st Objective cont.... 2nd Objective International distances of the second **Internet** The platform specific best practices were discussed during the platform-dedicated workshops: •Hamburg, Ferry Box 30-31 Aug 2011 > To adopt common methodologies and protocols •Rome, Fixed Platforms 29 Feb - 1 Mar 2012 ·Palma, Gliders 22-23 April 2012 • The second objective is a continuous effort with discussions being more and more integrated as workshops take place and partners are involved in During the Heraklion workshop 4&5 of October 2012 across platform best practices were common exercises etc. discussed and two working groups were formed During Heraklion workshop it was decided to produce a White Paper for dissolved oxygen sensors. On going !!! Fixed Platforms Petersen (HZG) tman (NERC) Carlos Hernandez (AZTI) - coordinator Detlev Machoczek (BSH) des (NOC Yannick Aoustin (IFREMER) Furthermore during the Heraklion workshop it was decided to explore the in (CNRS Dave Sivyer (CEFAS) nas (HCMR) possibility to design and implement a CO2 calibration experiment in the HCMR calibration lab. Mid Term Review - JERICO - 17 Mid Term Review - JERICO - 18

Status Task 4.2 Biofouling

2nd Objective cont....

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3.2.8. WP5: Data management and distribution by Rajesh Nair-OGS

Slides are available on the following pages.

Tasks presentation

The operating strategy of WP5:

- Create suitable partnerships with ongoing European data management initiatives to meet objectives → formalize links and actively engage with SeaDataNet-II (SDN-II) & MyOcean (MyO) to support JERICO data flow and dissemination.
- Build on what already exists → SDN-II for Delayed-mode (DM) data & MyO for Real-time (RT) data.
- Avoid duplication of efforts → cooperate with SDN-II & MyO in the development/improvement of data handling methodologies and data quality assurance procedures, prioritizing JERICOspecific monitoring parameters/technologies.

Why this operating strategy?

To work on the data, supports the "open&free" data policy paradigm. Many JERICO partners have already contributed to SDN-II/MyO or planned to do so. So there was no point to create something new.

The objective is also to bring the quality of the data back to the people making the measurement. The use the infrastructure already use for SeaDatanet and MyOcean.

 \rightarrow Create value for measured data: the activity is mainly developing common procedures for assigning uncertainties to measured parameters. The outline for the first deliverable relating to this task, D5.4, the document "Guidelines for uncertainty" (due at the end of month 30) has been prepared and sent out for comments and suggestions. A review on temperature and salinity measurement, aimed at establishing a procedural framework for uncertainty evaluations for these variables within JERICO, is also in progress.

 \rightarrow The second task focus on the harmonisation of delayed-mode data management procedures with SeaDatanet: there is a subcontract with MARIS to provide non-NODC data providers with support in using the SDN-II infrastructure for handling data and with MARUM to enable the adoption of the SensorML standard within JERICO.

 \rightarrow Task 5.3 focuses on the development of the JERICO data management framework for dealing with real-time data. There are interactions between JERICO, MyOcean, EuroGOOS and EMODnet-PP to promote their infrastructure for our needs. There is a subcontract with Capgemini to develop dataset indexing procedures that can ensure compatibility with MyO TAC requirements.

The deliverable 5.1 was submitted a little bit late as well as deliverable 5.2. The deliverable D5.3 ("First data management report"), scheduled for M24, is in preparation. Its submission has been delayed to allow integration of results after a short survey on data providers views with regards to the WP5 activities carried out so far.

 \rightarrow Work on the next programmed deliverable, the document entitled "Guidelines for uncertainty" (D5.4) due at the end of M30, is ongoing.



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Next steps:

- Formalize collaborations with SDN-II and MyO to permit information and exchange.
- Setup of a "floating" group of experts within JERICO to call upon for advice on the management of specific data types (e.g. biodiversity, turbidity, etc.)?
- Creation of a working group to oversee the expected interaction with SDN-II and MyO on data issues?

Key points and discussions:

J.M. Beckers: What is your strategy toward Lifewatch and Emodnet?

S. Sparnocchia: both are focusing on other types of data, on biodiversity data. JERICO is focusing on real time data and delayed mode data. Those projects are complementary to JERICO.

B. Karlson: Is it possible to use coastal data, biodiversity data in connection with JERICO's data?

A. Gremare: The goal of crossing this kind of data must be done "a priori".

P. Farcy: at the beginning of the project, we decided to interface with existing data management systems (delayed mode and real time). We don't want to develop something specific but to interface with other data bases. We need to be able to interface with overarching data management systems. For the moment we integrate data in SeaDataNet and MyOcean.

We have in WP1 a task about how coastal observatories can interface with biodiversity. We can add to this task an activity to explore how we can manage the data for the biodiversity community.

J.M. Beckers: For interface, in the project you speak of a lot of format. How do you plan to comply with other data formats?

R. Nair: It is planned to have people transforming their data in different formats when they send them to MyOcean and SeaDataNet. It's a way to make people use the same format.



WP5: DATA MANAGEMENT AND DISTRIBUTION Overview and Status: months 1 - 24

ara (cfanara@ogs.trieste.it)1, Loic Petit De La Villeon2, Alessandro Crise1 and Rajesh Nair 1OGS (Istituto Nazionale di Oco Oceanografia e di Geofisica Sperimentale), Italy ² IFREMER, France

JERICO Mid-term Review, Paris, France, 18 - 19 June 2013

WP5: the operating strategy

Create suitable partnerships with ongoing European data management initiatives to meet objectives ? formalize links and actively engage with SeaDataNet-II (SDN-II) & MyOcean (MyO) to support JERICO data flow and dissemination.

Use what exists ? SDN-II for Delayed-mode (DM) data & MyO for (near) Real-time (nRT) data.

Avoid duplication of efforts ? cooperate with SDN-II & MyO in the development/improvement of data handling methodologies and data quality assurance procedures, prioritizing JERICO-specific monitoring parameters/technologies.

WP5: why this operating strategy?

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Create suitable partnerships with ongoing European data management initiatives to meet objectives ? supports the "open & free" data policy paradigm; will aid in ensuring compatibility, interoperability, and the implementation of communal data handling practices.

Use what exists ? Many JERICO partners are already contributing to (or are prepared to contribute to) SDN-II/MyO.

Avoid duplication of efforts ? cooperating with SDN-II/MyO will allow JERICO to participate in establishing Europe's database and management infrastructure for coastal marine data.



WP5: a functional description



WP5: tasks

5.1 Create value for measured data (Task Leader: OGS; other partner involved: HCMR)

Activity description: development of common procedures for assigning uncertainties to measured parameters.

Actions (to date...) The outline for the first deliverable relating to this task, D5.4, the document "Guidelines for Uncertainty" (due at the end of month 30) has been prepared and sent out for comments and suggestions. The outline sets down the overall structure of the document, indicates the main topics that will be handled, and provides concise descriptions of each topic to show the planned development of the subject matter.

A review on temperature and salinity measurement, aimed at establishing a procedural framework for uncertainty evaluations for these variables within JERICO, is also in progress. • A

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 WP5: tasks S.1 Harmonization of delayed-mode data management procedures with SeaDataNet (Task Leader: IFREMER; other partners involved: HCMR, MUMM, OGS) Activity description: development of the JERICO data management framework for delayed-mode data. Actions (to date) Continuous interaction with SeaDataNet-II (SDN-II) to promote the use of, and facilitate seamless integration with, its established infrastructure for managing the JERICO delayed-mode data stream. Subcontract with MARIS to provide non-NODC data providers with support in using the SDN-II infrastructure for handling data; specifically, MARIS is charged with updating the EDIOS catalogue, generating CDIs, and developing a portal prototype for accessing these data. Subcontract with MARUM to enable the adoption of the SensorML standard within JERICO. 	 WP5: tasks S.3 Harmonization of real-time data management procedures with MyOceanEuroGOOS (Task leader: TFREMER; other partners involved: CNR, NIVA, IMR, HCMR, PUERTO, SMHI) Activity description: development of the JERICO data management framework for dealing with real-time data. Actions (to date) Continuous interaction with MyOcean (MyO), EuroGOOS and EMODnet-PP to promote the use of, and facilitate seamless integration with, its established infrastructure for managing the JERICO real-time data stream. A specific JERICO dataset label (tag) was implemented to clearly identify outgoing JERICO data. A JERICO Index was set up, which allows sorting of JERICO data from composite data sets Subcontract with CAPGEMINI to develop dataset indexing procedures that can ensure compatibility with MyO TAC requirements
 WP5: deliverables status The deliverable D5.1 ("DM data management handbook, V1", the first version of the JERICO delayed-mode data management handbook), scheduled for M8, was submitted (late) in M13. The deliverable D5.2 ("RT data management handbook, V1", the first version of the JERICO real-time data management handbook), scheduled for M8, was submitted (late) in M13. The deliverable D5.3 ("First data management report"), scheduled for M24, is in preparation; its submission has been delayed to allow integration of results of a short survey amongst data providers on their views of the activities carried out in the WP so far. Work on the next programmed deliverable, the document serverM30, is ongoing. 	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></list-item></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
The next deliverable, D5.4: "Guidelines for uncertainty" The subject matter 4.1 Measurement and uncertainty - What is a measurement? - What is not a measurement? - What is measurement uncertainty? - Error versus uncertainty. - Sources of uncertainty. - What is not a measurement uncertainty? - What is not a measurement uncertainty?	The next deliverable, D5.4: "Guidelines for uncertainty" The subject matter 4.2 Determining uncertainty - General principles. - Standard uncertainty. - Combined standard uncertainty. - Expanded uncertainty. - Summary of the steps involved in estimating uncertainty. www.jetico./p7.eu



WP5: what next?

- Formalize collaborations with SDN-II and MyO to permit sharing and exchange of information.
- Review and revise the Data Management Handbooks so as to incorporate a more practical "how to..." approach - to prepare deliverables D5.6 ("DM data management handbook, V2") and D 5.8 ("RT data management handbook, V2"), due at the end of M48; a meeting between the WP leader and the leader of Task 5.2 has been proposed in the second half of 2013 to begin the process for D5.6.
- Setup of a "floating" group of experts within JERICO to call upon for advice on the management of specific data types (e.g. biodiversity, turbidity, etc.)?
- Creation of a working group to oversee the expected interaction with SDN-II and MyO on data issues?



3.2.9. WP6: Outreach by David Mills- CEFAS

Slides are available on the following pages.

Tasks presentation

 \rightarrow *The JERICO web site* is implemented, 1000 visits, 100 researches of site, from almost 100 countries. On the JERICO website there are two kinds of accesses: public and professional domain. JERICO website provides information on the main achievements and in process action like on the JERICO summer school for example.

 \rightarrow The first JERICO Malta summer school is a success in term of level of interest, involving around 84 applicants from several countries.

Out of the 6 deliverables, already three of them are submitted: 1, 2, 4. Deliverable 6.3 is coming soon as the first summer school will be held this summer in Malta.

Within this WP there are two milestones: summer schools 1 and 2.

Suite of web-based interactive tools:

There are several applications as the glider educational tool and the JERICO data tool \rightarrow JERICO glider tool: a simple web-based tool for glider mission follows up in quasi real time, enabling students to follow directly on a daily basis the progress results, etc., of glider missions. For younger school kid with an English site and a Spanish one: to explain what is a glider, what it does. You can follow a route of glider...The glider educational tool has an adapted design for kids and students, for kids around 10 and 11 years old.

 \rightarrow JERICO data tool: The nature of data and maps can be displayed like for instance times series and data from the FerryBoxes. It can be displayed in different forms, multiple formats.

The goal of data management is to demonstrate and to influence political decisions by providing usable information on which decisions can be made upon (highlighted during the conference in Galway about the Atlantic and Artic).

The JUD (Jerico User Display) was presented during the Helsinki FerryBox meeting: it produces images that can be transmitted over a coaxial cable. A possible improvement is by incorporating a table of current data values together with the current configuration; implement some degree of data quality control prior to the images being display to screen, to make the system more robust for data or system anomalies.

Next steps:

• First summer school in July 2013 about operational oceanography.

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• Second summer school planned for month 39 (about data management and analysis).

Key points and discussions:

J.M. Beckers: HMAI format will be displayed on your system; why didn't you use directly the SeaDataNet format?

W. Petersen: we should be flexible on the format, the data format is not a big issue. The most important is to find the way to display the data.

B. Karlson: Users want data in real time, that's why this HMAI format is used.

J. Tintore showed a preliminary version of the glider tool for kids. Website: www.followtheglider.com







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3.2.10. WP7: Service and data access by Loïc Petit de la Villéon-IFREMER

Slides are available on the following pages.

Tasks presentation

The objective is to deliver data to the user through SeaDataNet and MyOcean. « Data assembly must be targeted to be compliant with MyOcean requirements and SeaDataNet standards (see WP5) ».

During the first period of the project, we focused on delivering data through the MyOcean data flow. During the 2nd period, the delivering of data in near real-time to MyOcean will continue as well as the delivering of data in delayed mode to SeaDataNet.

Difficulties are met to have contact with Pol-COBS; so the data are not yet available. Richard Lampitt said he will send us much more information on what data will be available because they will reorganize their observing system. We'll have the new specifications before it will be available, at the end of the summer. Maybe a new FerryBox line will be proposed.

How to get the data?

Through MyOcean:

register as a user of MyOcean

http://www.myocean.eu/web/56-user-registration-form.php

- get a personal user login and password
- connect to MyOcean in situ distribution unit

ftp1.ifremer.fr/INSITU_GLO_NRT_OBSERVATIONS_013_030

- an index file dedicated to JERICO allows to sort out the JERICO data directory
- find links to the monthly data directories

Next steps:

- Continue the integration of data through MyOcean
- Initiate the SeaDataNet data flow
- describe the sensors (sensorML)
- Share the sensors description (Sensor Registry)
- Generate the CDIs

P. Farcy presented targeted operational phases that will begin in 2014

- Top 1 : JERICO data tools
- Top 2 : data & demonstrative products collected from sensors on board of fishing vessels (Irish and Adriatic seas)
- Top 3 : data from buoys collocated with FerryBox lines

Key points and discussions:

A. Robin: How to find if these data are available? On the website?



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L. Petit de la Villéon: not for the moment. But it will be written on the website, which data will be available. A lot of projects want to be implemented as data provider systems, but it's not always feasible and it can be very expensive too.

A. Robin: it's important to be able to link data to a particular project as JERICO. Firstly in case of audit, you need to provide evidence that the service ("Service Activities") was achieved through JERICO. It's also a way to promote the JERICO project as well as this kind of instrument ("I3" project) and European funding.



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	Presentation Outline
WP 7: Service and data access Mid-term review: 18-19 june 2013	 General objective of WP7 Means: how the data are distributed ? Status Next steps
General Objectives and Means	Status of WP7
 Provision of usefull data Provide free access to observations and well referenced meta-data 	 During the 1st period of the Project, focus was put on delivering the data through the MyOcean data flow During the 2nd period, delivering data in near real-time through MyOcean will continue and delivering delayed mode data to SeaDataNet
• « Data assembly must be targeted to be compliant with Myocean requirements and SeaDataNet standarts (see WP5) »	Mid Term Review - JERICO - 4
<image/>	Data Availability: MOLIT and MESURHO
	Mid Term Review - JERICO - 6


Data Availability: Alg@line Data Availability: CRS Coastal station 69059 & 69060 252er FINMAID 69059 Call sign: OJMI Silja Serenade call sign: OJCS No cruise during the winter period Kristina Brahe call sign: OIEC data will flow through NIVA -Norway-69060 Mid Term Re view - JERICO - 7 Mid Term R Data Availability: Nowegian FerryBox Network How to get and visualize the data ? Internation of the second seco annie Statures Coriolis web portal Example: 3 ferrybox vessels Trollfjordj: LLVT a willow post 1007b 11 Color Fantasy: LMSD Bergensfjord: OUZI2. No data in 2013 Norbjorn: LAKM4. No data in 2013 Mid Term R ew - JERICO - 10 How to get the data? Next steps **Tribula Indeal Internet** Through the Myocean: - register as a user of Myocean http://www.myocean.eu/web/56-user-registration-- Continue the integration of data through form.php Myocean - get a personnal user login and password -Initiate the Seadanet data flow - describe the sensors (sensorML) - connect to the MyOcean in situ distribution unit - Share the sensors description (Sensor ftp1.ifremer.fr/INSITU_GLO_NRT_OBSERVATIONS_013_ Registry) <u>030</u> - Generate the CDIs - an index file dedicated to Jerico allows to to sort out the Jerico data directory etc/project Mid Term Review - JERICO - 11 Mid Term Review - JERICO - 12 - and links to the data



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6
Targeted Operation Phase (TOP)
Internet
TOP WILL BEGIN IN 2014
TOP1: JERICO datatools tools are ready (Blue Lobster) and demonstration are done with ferrybox data (see D6.4)
TOP2: Data & demonstrative products collected from sensor on board fishing vessels (Irish and Adriatic seas) Two systems will be on test on MI oceanographic vessels during summer
TOP2: Data from buoys collocated with ferrybox lines (kattegat and lonien sea)
www.jonos/p?.ex Mid Term Review - JERICO - 13



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3.2.11. WP8: Trans National Access (TNA) to coastal observatories by Stefania Sparnocchia-CNR

Slides are available on the following pages.

Tasks presentation

WP8 objective is to open original coastal infrastructures among those operated by the JERICO Consortium to Trans National and free-of-charge access. (Enabling activities are developed in WP1-T1.6)

Organizations are offering to researchers/users their infrastructure. These proposals have to be transnational and free of charge. Our original plan was to have two calls for TNA proposals.

- \rightarrow First call: 13 proposals received, 9 have been financed.
- \rightarrow Second call: Only 6 received, 4 have been evaluated.
- \rightarrow Third call: new plan to have a third call.

Among TNA activities, a web page has been developed to promote the calls.

All projects involved in the first call will be concluded by the end of the year 2013.

3 types of projects:

- Calibration
- In situ testing / research
- Research

Second call: 4 scientific evaluations performed, granting letters have been sent for each funded project. Most of the proposals submitted to the second call involve transnational groups, two of them include scientists from non Member/associated Countries.

Next steps:

Organisation of a third extra-call in September/October 2013.

Deadline before December 2013. Accepted projects will end within autumn 2014. We have to find a way to be more proactive in promoting the TNA opportunity.

Key points and discussions:

A. Robin: Have you received requests from the same TNA project to access several platforms?

S.Sparnocchia: Yes we did.

A.Robin: Did you plan a questionnaire regarding level of satisfaction?



S. Sparnocchia: no, but we ask the users to answer the questionnaire made by the Commission.

A. Robin: If you reallocate money from a facility to the other one, due to a change in the type/quantity of service or transnational access, you need to do an amendment. To be discussed further.

P. Farcy: Do you plan for H2020 to simplify the management of TNA?

A. Robin: Discussions are ongoing in Brussels, no decisions were made yet. Our service asked the possibility to claim costs either via a unit of access (and identifying its average cost – exactly as under FP7 – because it is convenient for some infrastructures such as large scale facilities) or via the additional costs of specific TNA project or a combination of both options. I cannot anticipate whether this will be accepted. In any case, at her understanding we will not come back to estimated costs as it was in FP6, reimbursement will have to be based on actual costs (not specific to FP7 or Horizon2020, this is the EU Financial regulation).

J. Tintoré: are we the only consortium having a hard time to understand the process of TNA? In JERICO, such kind of access never has been formalized before, it took some work.

A. Robin: The difficulty within JERICO was to have some infrastructures opening a new type of access to (external) users while TNA is in principle designed to extend an existing and standard modality of access to non-national researchers.

J.M. Beckers: Why did you receive fewer proposals than expected?

S. Sparnocchia: We did a lot of promotion for the second call. We have contacted Eurofleets, EuroGOOS, and many other projects and organizations. What was lacking for the second call is a door to door marketing/promotion, looking for users. We have to find a way to better promote the opportunity. Moreover, potential users could have renounced to submit a proposal considering that the amount of funds they could receive (few thousands of euros and only for travels and shipping equipment) wasn't worth the effort of building up a valid scientific experiment and drafting a detailed proposal. TNA would be probably more successful if the budget available for users could support also ancillary costs, such us consumables for laboratory analysis or for calibrating/running instrumentation.

A. Robin: it is frequent for this kind of project, that well known facilities are more demanded than less known ones. If it is confirmed that a more pro-active advertisement did not change the outcome for some of the less/not demanded facilities, there is no point to continue to propose them in successive calls: if few facilities didn't received any proposal, it's probably time now to decide to re-allocate the quantity of access and related budget to well demanded installations. Eventually you have to answer the needs of the scientific community.

An amendment to the grant agreement will be necessary for the modifications of the TNA infrastructures and for selecting the next call proposed infrastructures







FIRST CALL - EVALUATION RESULTS & STATUS

SCORE	REF. No	ТҮРЕ	OPERATOR	PROPONENT	STATUS
87.1	CALL_1_13	GL	NERC - UK	Allan - NO	Agreement signing Scheduled Sep 13
86.8	CALL_1_10	GL	NERC - UK	Wahlin - SE	Withdrawn
82.1	CALL_1_9	FP	CNR - IT	Coppola - FR	Started, 20 Nov 12
76.6	CALL_1_2	FP	CNR - IT	Zibordi - IT	Not eligible
76.5	CALL_1_5	CAL	OGS - IT	Pethiakis - GR	Concluded (25 Feb - 1 Mar 13)
75.6	CALL_1_11	CAL	HCMR - GR	Bozzano - IT	Concluded (26 - 30 Nov 12)
74.3	CALL_1_4	FB FP	NIVA - NO HZG - DE	Jones - UK	Agreement signing Scheduled Jun 13
72.7	CALL_1_1	FP & CAL	HCMR - GR	Gonzales Davila - ES	Started, 3 Mar 13
72.0	CALL_1_8	GL	CSIC - ES	Ribotti - IT	Started, 23 Oct12
70.1	CALL_1_6	FP	CNR - IT	Edith Joseph - SW	Agreement signign Scheduled Jul 13
68.0	CALL_1_7	GL	CNRS - FR	Caballero Reyes - ES	Agreement signing Scheduled Jul 13
59.3	CALL_1_12	FP	CNR - IT	Deudero - ES	Rejected
59.0	CALL 1 3	CAL	HCMR - GR	Nair - IT	Rejected

CONCLUDED AND RUNNING PROJECTS

http://www.jerico-fp7.eu/tna/calls-and-selection/first-call/approved-projects

Calibration

CEBIO - Calibration and inter-calibration exercise of bio-geochemical sensors. R. Bozzano, CNR - ISSIA @ POSEIDON CAL LAB (HCMR).

RTC - Reference Temperature Calibration. G. Petihakis, HCMR @ OGS CTO.

OXY-COR - Integration of dissolved oxygen concentration measurements in the long term time series data in the Corsica Channel. L. Coppola, Obs Vitr Corsica Channel mooring (CNR) Scientific study or Water masses evolution in the NW Med from the perspective of D0 content and its variability, implementing the existing installation with an optical D0 sensor.

GABS - Deep Glider Acquisitions between Balears and Sardinia. A. Ribotti. CNR – IAMC @ CSIC glider facility. Scientific study of dynamics and variability of a buffer zone between Algerian and Provencal sub-basins with CSIC glider, cruise data and modelling.

In situ testing/Research

MEDACID - Mediterranean Sea ocean acidification time series experiment. M. Gonzales-Davila, Universidad de Las Palmas de Gran Canaria @ POSEIDON Salonikos buoy + CAL (HCMR) Testing anovel pi sensor in a oligotophic environment; studying pH variability in coastal waters

Puillat et al.: JERICO : A Joint European Research Infrastructure Network for Coastal Observatories Supporting Marine Research in the Mediterranean Sea, 40th CIESM Congress – Marseille, France, 28 October - 1 November 2013

Research

waters

SECOND CALL CALENDAR

Action	Who	When	Status
D1.5 2nd Call opening	JERICO TNA Office (CNR)	14 Jan 2013	Done
2nd call closing	JERICO TNA Office (CNR)	15 Mar 2013	Done Re-scheduled to 18 March, finally extended to 27 March
Feasibility assessment	Operators of targeted facilities	end of April	Done 2 out of 6 proposals were not feasibile, revision requested
Scientific evaluation	Selection Panel	8 Apr - 28 May 2013	Done (4 out of 6 proposals)
Revision of non- feasibile proposals	Users	14 June 2013	Done (1 out of 2 proposals)
Communication of results to proponents and operators	JERICO TNA Office (CNR)	12 Jun 2013	Done (3 out of 4 proposals. Waiting for administrative information for the fourth)
Projects start	Users	After signature of agreements	

Second Call - Available and targeted facilities Intribution Not participating (available access) time consumed in the 1st call) Targeted ne User group Countries 1.Spain 2.Czech Rep & Norway 3.Norway & Italy 4.Italy 5.France & Tunisia 6.Italy & Tunisia

http://www.jerico-fp7.eu/tna/calls-and-selection/second-call/access-facilities WP8TNA - JERICO - 10

SECOND CALL – SUBMITTED PROPOSALS

_	SCORE	REF. No	TYPE	OPERATOR	PROPONENT	PROJECT TITLE - ACRONYM	STATUS
1	82.8	CALL_2_1	FP	CNR - IT	Sànchez Vidal - ES	MEditerranean sediment TRap Observatory - METRO	Approved
		CALL_2_2	FB FP	HZG – DE CNR - IT	Klánová - CZ	Emerging Chemical Contaminants in European Coasts - ECCECs	Under evaluation by operator
	82.3	CALL_2_3	FP	CNR - IT	Sørensen - NO	Radiometry Assessment of optical Data for ocean color applications - RAD	Approved
	82.2	CALL_2_4	FP FB	HZG – DE	Sanfilippo - IT	Field Test Of MicroLFA nutrients monitoring device for Ferrybox systems - FITO MicroLFA	Approved
	75.2	CALL_2_5	FP	CNR - IT	Lefevre - FR	Monitoring Oxygen in the Sicily Channel - MOSC	Approved
		CALL_2_6	GL	INSU/CNRS - FR	Olita - IT	Multi Sensor Investigation in the Channel of Sardinia - MuSICs	Under revision by user
						WP8 TNA -	JERICO - 12

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Three steps:	

2ND CALL EVALUATION PROCEDURE

1.Validation of each proposal by the manager of the targeted facility. 2.Evaluation by the Selection Panel (SP) based on **scientific excellence**, innovation and impacts on the state-of-the-art. 3.Final assessments by the SP.

Six evaluation criteria:

- 1. Fundamental, scientific and technical value
- 2. Quality of the work program Evaluation of risks and payoff
 Potential for seeding links with industry
- 5. Quality of users groups
- 6. European relevance

 $\max 10$ Threshold score > 60

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max 30 max 25

max 15 max 10

max 10

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NEXT STEP: THIRD CALL

Infolution

- Opening: September/October 2013
- Deadline before December 2013
- Offer all the available facilities, allowing for reallocation of access costs among partners (in order to offer the totality of the remaining TNA budget – about 154 K€, 33% of TNA budget)
- Accept projects that will end within Autumn 2014
- Stimulate partners to be more proactive in promoting the TNA opportunity

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TNA RELATED DELIVERABLES & MILESTONES (OVERVIEW)

- M8 D1.1 First Call for TNA proposals Delivered in January 2012 (M9), updated with an Addendum in May 2013 (application form, description of facilities)
- M11 MS6 Infrastructure available for users
- M20 D1.5 Second Call for TNA proposals Delivered in January 2013 (M21)

M24 D1.7 First report of the access activity Delivered in May 2013 (M25) (Will be updated in summer including more results from 1st Call)

- M42 D1.10 Second report of the access activity
- M48 D8.1 Trans National Access Provision (Summary of Access provided under JERICO)

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3.2.12. WP9: New methods to assess the impact of coastal observing systems by Srdjan Dobricic-CMCC

Slides are available on the following pages.

Tasks presentation

WP9 should apply mathematically sophisticated methods based on the statistical measure of the impact of coastal observations in order to provide the information on how to optimize investments and extract the most of the data from European coastal observing systems.

Two types of experiments tasks:

- 1. Impact of existing observational platforms (OSE)
- 2. Impact of future observational platforms (OSSE)

Impact of coastal observations in the Northern Adriatic Sea: map to see the difference between temperatures at 10m depth (0C) estimated by the control and assimilation experiments on 01 August 2006.

Deliverable status: So far, they produced 4 deliverables, the last three ones were delayed (D9.2/D9.3/D9.4) of two months due to a staff changes. The final report will be produced before the end of the project, to link this deliverable with the final report of JERICO.

Next steps: Remaining deliverables

- D9.5 Scientific report on OSE experiments (M36)
- D9.6 Scientific report on OSSE experiments (M36)

It appears essential to organize another workshop before writing the two final scientific reports. If possible, it should be organized with the WPs that are particularly interested in our results. The EuroGOOS meeting in November may be a good occasion.

This WP will allow us to ask the question of the trade-off between money and efficiency.





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3.2.13. WP11: Project Management by Patrick Farcy -Ifremer

Slides are available on the following pages.

Tasks presentation:

Main achievement of the project (see the Deliverable status in the following slides):

- WP1: Roadmap for WPs (D1.2); FCT activities well launched (D1.6)
- WP2: Inventories of GOOS is still in process. 3 deliverables submitted + 1 on the way.
- WP3 & 4: 5 common workshops: fixed platforms, FerryBoxes and gliders + Best practices handbooks.
- WP4: calibration facilities, Biofouling preventionWP5: Data management handbook, first version is done (D5.1 & D5.2)
- WP6: Launching of OceanBoard and JERICO website.
 - 1st summer school in July.

Amendment to the Grant Agreement.

→ Niva sub-contracting to IRIS: NIVA participation in JERICO has been led by Dominique Durand who has now left NIVA. Kai Sorensen has taken over his position as project leader regarding NIVA participation in JERICO and he will be in charge of the development of the infrastructure relevant for JERICO. However to ensure that the continuity and competence are maintained in the NIVA group regarding JERICO, Dominique Durand will continue to support the JERICO project by being subcontracted by NIVA. The main task of Dominique Durand will be linked to WP1. Subcontract with IRIS, for one half of the remaining WP1 budget 36 500€.

 \rightarrow CNRS request an amendment to the JERICO GA with retroactive effect under special clause 10, with the involvement of the following third parties:

- •Université de Perpignan: through the Joint research Unit CEFREM (UMR-JRU n°5110), will be involved on WP3
- •Université de Bordeaux: through the Joint research Unit EPOC (UMR-JRU n°5805)

→ *Trans National Access:* Revision of number of Accesses. In the form « Summary of transnational access/service provision per installation » the calculation of 240 units of access given by INSU-CNRS for an amount of 103 533€ for his National Glider Facility was unfeasible. Following internal discussion, the estimated number of accesses should be of 198 units of access.

 \rightarrow Nomination of Financial Statement Authorised Signatories (FSIGNs) for electronic Forms C signatures. The amendment becomes applicable to all beneficiaries under a given grant, i.e. there will be no "mixed" reporting in a consortium (either all electronic-only or all with paper signature).

Comment A. Robin: We can't merge the FSIGNs amendment with the other types of amendment. Two independent requests have to be handled.

► Associated partners:

The JERICO "Associated Partner" partnership agreement, shall apply to any public organisation or any network that are not JERICO Parties but who are accepted for joining the Project by General



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Assembly. One partnership agreement shall be signed by each Associated Partner and the Coordinator for the account of the Consortium."

4 proposals:

- Sven Lovén Centre for Marine Sciences of the University of Gothenburg: main potential scientific contact Dr. Micheal Klages. Not much information for the moment, some emails were sent to get more information.

- Marine Hydrophysical Institute of the National Academy of Sciences of Ukraine (MHI NASU): main potential contact, Mrs Veronika Maslova. Cancelled!

- SARTI group at UPC (Universitat Politecnica deCatalunya) with Dr. Joaquin del Rio as main scientific contact. SARTI team agreed to work on WP 1 and more specifically on the future strategy of JERICO in which we would like to integrate deep-sea observatories. Associated partnership agreement is in its finalisation process.

- PLOCAN in Spain (Canaria): main potential contact, Mr. Carlos Barrera. After discussion, we agreed on the fact that PLOCAN could work on WP1, 3, 4, 6 and 7. Associated partnership agreement is in its finalisation process.

Next steps in 2014:

- strategy / white paper "future strategy for coastal observatories"
- Second FCT workshop in London (March)
- Scientific Advisory Committee, meeting in May : white paper workshop
- General Assembly in Oslo (TBC) in May
- 2nd interim report (June) technical and financial
- Deliverables and products of WP3/WP4 & JRA (end 2014)

Key points and discussions:

J.M. Beckers: interesting project, and interesting long term prospective if efforts can be sustained. There are delays, but it's not blocking the project. Interactions between WPs must be now strengthened and shown in the next reporting periods (while preparing the common strategy and the label definition).

A. Robin: complex project, with different types of facilities, different stakeholders. It's important to have this kind of research infrastructure projects. She might have overestimated the importance of use of JERICO data in coastal modeling, WP9 particularly, which explain the choice of the reviewer.

JERICO is not the only initiative dealing with marine data and observation systems, but JERICO can be a foundation stone in building a larger system and addressing a larger community. There is a need of more interoperability, to save money, to show optimization. We have to demonstrate that working together helps saving money in the future, being more efficient and better serve the science community and other stakeholders, which is important.

The project must avoid delays in deliverables as the EC will not accept extension of duration of the project.



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 Main achievements of the Project WP1: Roadmap for WPs (D1.2); FCT activities well launched (D1.6) WP2: Inventories of GOOS is still in process. 3 deliverables submitted + 1 in the way. WP3 & 4 : 5 common workshops : fixed platforms, ferryboxes and gliders + Best practices handbooks. WP4: calibration facilities, Biofouling prevention WP5: Data management handbook, first version is done (D5.1 & D5.2) WP6: Launching of OceanBoard and JERICO website. Ist summer school in July.
WP 11 - Management Further Constraints of the second seco
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JERICO MID TERM REVIEW Wp 11 Management 2013, June 18/19thr PHUPMCH Patis	Amendment to the GA CONS request an amendment to the JERICO GA with retroactive effect under special clause 10, with the involvement of the following third parties : 0. Université de Perpignan : through the Joint research Unit CEFREM (UMR-JRU n°5110), will be involved on WP3 1. Université de Bordeaux : through the Joint research Unit EPOC (UMR-JRU n°5805) Trans National Access : Revision of number of Access. In the form « Summary of transnational access/service provision per installation » the calculation of 240 unit of access gived by INSU-CNRS for an amount of 103 533€ for his National Glider Facility was unfeasible. Following internal discussion, the estimated number of access should be of 198 unit of access.
Amendment to the GA HZG : change of offered platform (piles) in TNA Reduction of the number of piles (COSYNA-PILE) from three to one within their coastal observatory COSYNA. Instead they would like to offer as unit of access a fixed platform located in the estuary of the Elbe Riber (Cuxhaven) to the same conditions and same access costs. This station is measuring the same set of parameters continuously and has in addition a better electric power (220 V) provision	Amendment to the GA Momination Financial Statement Authorised Signatory (FSIGN) for no more signed Forms C All partners in the consortium agree to do an amendment to the contract. The amendment becomes applicable to all beneficiaries under a given grant, i.e. there will be no "mixed" reporting in a consortium (either all electronic-only or all with paper signature).
WP11 – MANAGEMENT Task 4 Quality assurance plan V4 – available, on the website (deliverables). Identity set : the description is on the website. To have the # items (ppt, logo, etc) please ask to Ingrid or me.	WP11 – MANAGEMENT Task 5/6 WP11 – MANAGEMENT Task 5/6 UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU



Associated partners

Internet

- Aim of an associated partnership agreement
- Definition of the JERICO grant agreement, "Associated Partner" shall designate any public organisation or any network that are not Parties but who are accepted for joining the Project by General Assembly. One partnership agreement shall be signed by each Associated Partner and the Coordinator for the account of the Consortium."
- For your information, the associated partner can, in no case whatsoever, claim any part of the financial contribution provided by the European Community in the framework of JERICO.
- The purpose of this associated partnership agreement, hereinafter referred to as this Agreement is :

1.1. To open JERICO exchange to Associated Partner 1.2. To open specific tasks to Associated Partner, in particular in connection with Workpackage (to define) as detailed in Annex 1 of EC-Contract. For participate to some Project general tasks as designation of review panel members, attendance to advisory committees and participation to associated partnership recruitment 1.4. To prepare the Project's future steps.

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	D1.1	First call for TNA proposals	1	M8	M9	5	6.75	CNR
	D1.2	Rationale and definitions for a common strategy	1	M9	M21	6	2	INSU/CN RS
	D1.3	Terms of reference of the FCT	1	M9	M14	3	1	MI
	D1.4	JERICO label definition	1	M18	Postponed	2	0	HCMR
ľ	D1.5	Second call for TNA proposals	1	M20	M21	5	0	CNR
	D1.6	First report of the FCT activity	1	M24	Postponed to M26	3	0	MI
	D1.7	First report of the access activity	1	M24	M25	5	0	CNR
	D2.1	Report on existing observation network	2	M12	M21	6	3	IMR
	D2.2	Report on recommendations	2	M12	M25	6	3	IMR
	D2.3	Integrated Pan European Atlas first report	2	M18	Postponed to M26	6	0	IMR
	D2.4	Demonstration of the feasibility of Joint trans-regional production	2	M24	M25	9	0	SMHI
	D3.1	Report on current status of FerryBox	3	M9	Uploaded M15 Submitted M17	20	12	HZG/NOC S
	D3.2	Report on current status of gliders observatories within Europe	3	M15	Postponed to M26	20	1	CSIC
	WWW	.jerico-fp7.eu				Mid 1	Term Review	- JERICO - 14

Associated partners

Infolution

- 4 proposals
- Sven Lovén Centre for Marine Sciences of the University of Gothenburg : main potential contact, Mr Micheal Klages. Not much information for the moment, email send to have more information.
- Marine Hydrophysical Institute of the National Academy of Sciences of Ukraine (MHI NASU) : main potential contact, Mrs Veronika Maslova. Cancelled!
- Joaquin del Rio, from SARTI research group at the UPC (Universitat Politecnica deCatalunya) SARTI (UPC). They agree to work on workpackage 1 and on the future strategy for JERICO in which we would like to integrate deep sea observatories. Associated partnership agreement in its finalisation process.
- Plocan in Spain : main potential contact, Mr Carlos Barrera. After discussion, we agree on the fact that Plocan could work on WP1, 3, 4, 6 and 7. Associated partnership agreement in its finalisation process.0-13

	D 3.3	Review of current marine fixed instrumentation	3	M 21	Postponed to M 26	2.0	5	HZG/CEF AS
	D 4.1	Report on calibration existing facilities	4	M 18	M 2 2	10	3	HZG
	D 5.1	DM data management handbook V1	5	M 8	M 1 3	6	3	Ifremer 🛃
ľ	D 5.2	RT data management handbook V1	5	M 8	M 1 3	6	3	lfremer
	D 5.3	First data management report	5	M 24	Postponed to M 26	6	0	OGS
	D 6.1	Design and launch of JERICO OceanBoard v0	6	M 6	M 1 3	6.0	3	Cefas (+UoM)
	D 6.2	JERICO Community Hub	6	M 12	M 1 3	5.0	0.5	Cefas
	D 6.3	Summer school 1	6	M 15	Postponed to M 27	3.02	0.3	U o M
	D 6.4	Development and implementation of suite of web-based interactive tools	6	M 24	M 2.4	8.0	0.0	Cefas
	D 6.5	Summer school 2	6	M 27	Postponed to M 39	4.0	0.07	DELTAR ES
	D 8.1	Trans National Access Provision	W P 8	M 48	M 48	2.50	0.50	C N R
	D 9.1	First scientific report	9	M 12	M 1 2	10	10	СМСС
	D 9.2	First report on O SE	9	M 18	M 2 1	10	10	H C M R
	D 9.3	First report on O SSE	9	M 18	M 2 1	10	10	D M I
	D 9.4	Second scientific report	9	M 24	M 25	7.5	7.5	СМСС
	D11.1	Signed consortium agreement	1.1	M 2	M 8	2	2	IF R E M E R
	D11.2	Quality assurance plan	11	M 3	M 6	5	5	H C M R
	D11.3	Identity Set	11	M 6	M 1 2	2	2	N IV A
	D11.4	First periodic report	11	M 18	M 2 1	12	0	IFREMER

Ĵ	MS1	Kick off meeting	WP11	1	M1	Ifremer	Yes	Kick off meeting report
I	MS2	First intermediate GA	WP11	18	M18	Ifremer	Yes	General Assembly in Heraklion (1 and 2 Oct
	MS5	First steering committee outputs	WP1	9	M9	INSU/CNRS Ifremer	Yes	First steering committee report
	MS6	Infrastructure available for users	WP1	11	М9	INSU/CNRS	Yes	1 st TNA call
	MS7	First forum for coastal technology	WP1	18	M18	INSU/CNRS	Yes	Held during the Sea Tech Week in Brest
	MS8	Second steering committee outputs	WP1	18	M19	INSU/CNRS Ifremer	Yes	SC meeting in Heraklion in October the 2 nd .
	MS9	Third steering committee outputs	WP1	27	M25	INSU/CNRS Ifremer	End of May	SC meeting in Galway 16/17 May 2013
	MS16	First JERICO management Handbook	WP5	8	M13	OGS	Yes	Handbook in progress
	MS17	Launch of service access	WP5	18	M13	OGS	No	
	MS20	Summer School 1	WP6	16	27	CEFAS	No	Organisation UOM
-	MS21	Summer School 2	WP6	28	40	CEFAS	No	Organisation Deltares
	MS22	JERICO workshop on sensors for vessels of opportunity and fishing vessels probes	WP10	12	M2	MI Ifremer	Yes	Workshop report done
-	MS23	Software and manuals for new image analysis techniques (including Flowscan and Zooscan)	WP10	24	42	INSU/CNRS (not BLIT as indicated in the DOW)	No	Milestone MS23 brought in line with Deliverable D10.2

Next Deadlines

- Information • D6.3 M27 Summer school one • MS20 • D6.3 Final version OCEANBOARD M30 • WP10 Workshop in NICE October - 16/18 · Constitution of a permanent WG on calibration (WP4) COST proposal • WP1 LABEL DEFINITION
 - · Annual Meeting Eurogoos with WP2 and WP9 Meetings

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