Report after the JERICO-Next kick-off meeting week

Grant Agreement n° 654410
Project Acronym: JERICO-NEXT

Project Title: Towards a Joint European Research Infrastructure network for Coastal Observatory - Novel European eXpertise for coastal observaTories

Coordination: P. Farcy, IFREMER, jerico@ifremer.fr, www.jerico-fp7.eu

Authors: N.Beaume, S.Pichereau, I.Puillat, P.Farcy
Involved Institution: IFREMER
Date: 2015-10-09
REFERENCES

Annex 1 to the Contract: Description of Work (DoA) version 2015-06-23

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## Agenda

### Agenda: Monday, 28th of September

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<th>Topic</th>
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<tr>
<td>Registration of participants</td>
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<tr>
<td>16:00-18:30</td>
<td>1) JERICO-Next Contract: news</td>
<td>P. Farcy</td>
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<td>2) For Each WP: 15 min x8</td>
<td>WP leaders</td>
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<td>Introduction of the related side meetings to be hold the days after:</td>
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<td></td>
<td>WP1&amp;4, WP2 (Tuesday), WP3, 5, 6, 7, 8 (Wednesday): agenda of the meetings, blocking points, 18 month agenda of each WP, organisation etc.</td>
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<td></td>
<td>3) Agenda of next meetings and general organization</td>
<td>I. Puillat</td>
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<td></td>
<td>see the JERICO Calendar month M10: HF radar meeting, WP5 meeting, WP3, and SC meeting: Who? Where?</td>
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<td>4) next Steering Committee meeting: specific topic?</td>
<td>All</td>
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<td>19:00-...</td>
<td>Ice breaker</td>
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**End of Steering Committee meeting**

### Agenda: Tuesday, 29th of September
The Tuesday meeting (up to 17.00) was dedicated to the WP4 JRAPs, with a focus on the crosscutting activities of WP1, 2, 3 and 5. Indeed, each WP presented their expectations towards WP4 JRAPs and then each JRAP initiative were presented with a clear agenda of actions and description of the scientific strategies and methods, links with other WPs.

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<tr>
<th>Time</th>
<th>Activity</th>
<th>Speaker(s)</th>
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<tr>
<td>08:00-08:30</td>
<td>Registration (con’t)</td>
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<tr>
<td>08:30-09:00</td>
<td><strong>Pollentia Room</strong> WP1 &amp; WP4 Introduction Speech, How WP1 and WP4 will work together? Links with other WPs.</td>
<td>I. Puillat, D. Durand</td>
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<td>08:40-10:00</td>
<td><strong>Pollentia Room</strong> Session1: Objectives, timeline, constrains and expectations from WPs to JRAPs:</td>
<td>R. Nair, G. Petihakis, L. Perivoliotis</td>
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<td>10:00-10:30</td>
<td>Coffee break</td>
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<td>10:30-12:30</td>
<td><strong>Pollentia Room</strong> Session 2: Objectives, timeline, pitfalls and achievements needed from/to WPs: 40’ /JRAP</td>
<td>B. Karlson, A. Grémare, L. Nizzetto</td>
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<tr>
<td>12:30-14:00</td>
<td>Lunch</td>
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<tr>
<td>14:00-16:00</td>
<td><strong>Pollentia Room</strong> Session 2 (con’t): Objectives, timeline, pitfalls and achievements needed from/to WPs</td>
<td>A. Rubio, L. Laakso</td>
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<td>16:20-16:50</td>
<td><strong>Pollentia Room</strong> WP4 Discussion and conclusion</td>
<td>R. Nair, W. Petersen</td>
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<td>17:00-18:45</td>
<td><strong>Pollentia Room</strong> Session 3: WP2 dedicated meeting</td>
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End of first day
## Agenda: Wednesday, 30th of September

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<td><strong>Registration</strong></td>
<td><strong>08:30-09:00</strong> Receptions</td>
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<td><strong>10:00-10:30</strong></td>
<td><strong>Coffee break</strong></td>
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<tr>
<td><strong>Romana Room</strong></td>
<td><strong>09:00-12:00</strong> WP dedicated meetings</td>
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<td><strong>Pollentia Room</strong></td>
<td><strong>09:00-12:00</strong> WP8: Outreach (9:00-10:00) WP5: Data management (10:30-12:30)</td>
<td>S. Keeble, L. Perivoliotis</td>
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<td><strong>12:30-13:45</strong></td>
<td><strong>Lunch</strong></td>
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<td><strong>Pollentia Room</strong></td>
<td><strong>13:45-17:20</strong> WP6: Virtual access (13:45-15:00) WP7: Transnational access (15:20-17:20)</td>
<td>D. Mills, S. Sparnocchia</td>
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<td><strong>Romana Room</strong></td>
<td><strong>13:45-17:30</strong> Meeting with WP leaders, JRAP leaders, Advisory committee &amp; EUROGOOS</td>
<td>WP leaders except 6, 7, 8 JRAPs leaders Advisory committee</td>
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<td><strong>17:45-...</strong></td>
<td><strong>City tour &amp; social event</strong></td>
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**End of second day**
# Agenda: Thursday, 1st of October

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<td>08:30-10:30</td>
<td><strong>Kick-off meeting:</strong> (20’ presentation + 10’ discussion per WP 1 to 8)</td>
<td>P. Farcy, J. Tintore</td>
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<tr>
<td>Pollentia Room</td>
<td>Welcome (08:30-08:45)</td>
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<td>- WP 9 (08:45-09:30): Coordination</td>
<td>P. Farcy, C Gernez</td>
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<td>- WP 1 (09:30 – 10:00): Integrated Science Strategy and Governance from local to European scales</td>
<td>D. Durand</td>
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<td>- WP 2 (10:00-10:30): Harmonizing operation and maintenance methods</td>
<td>R. Nair</td>
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<td>10:30-11:00</td>
<td>Coffee break + Approval of decisions</td>
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<td>11:00-12:45</td>
<td>- WP 3 (11:00 – 11:30): Innovations in technology and methodology</td>
<td>G. Petihakis</td>
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<td>Pollentia Room</td>
<td>- WP 4 (11:30 – 12:15): Valorisation through applied joint research</td>
<td>I. Puillat</td>
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<td>- WP 5 (12:15 – 12:45): Data management</td>
<td>L. Perivoliotis</td>
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<td>12:45-14:15</td>
<td>Lunch</td>
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<td>Pollentia Room</td>
<td>- WP 6 (14:15 -14:45): Virtual access</td>
<td>D. Mills</td>
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<td>- WP 7 (14:45-15:15): Transnational access</td>
<td>S. Sparnocchia</td>
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<td>- WP8 (15:15-15:45): Outreach</td>
<td>S. Keeble</td>
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<td>15:45-16:15</td>
<td><strong>Recommendations of the STAC</strong></td>
<td>Advisory board</td>
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<td>16:15-16:30</td>
<td><strong>Conclusion of the KOM</strong></td>
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<td>16:30</td>
<td><strong>End of the Kick Off Meeting</strong></td>
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## List of participants

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III] Kick-off meeting: Work Packages' presentations & main discussion

JERICO-NEXT is the coastal component of the European marine observing system, and is funded by the H2020 program and recently extended from a FP7 awarded project (JERICO).

The JERICO-NEXT project aims at extending the EU network of coastal observations developed in JERICO (FP7) by adding new innovative infrastructures as HF radars, sub-bottom observatories and profilers, while integrating biogeochemical and biological observations. The main target of JERICO-NEXT is to provide the researchers with continuous and more valuable coastal data coupling physical and biological information by further developing, harmonizing and integrating nationally funded marine observing systems, collecting physical, chemical and biological parameters from different platforms (ferryboxes, fixed platforms, gliders, HF radars, benthic systems ...).

The first JERICO-NEXT Steering Committee took place on 28th September 2015. It was followed by the preparation of the Kick Off meeting gathering Work Package leaders, JRAP leaders and involved partners on 29th and 30th September, then the Kick Off meeting on 1st October 2015.

1) WP9 - Coordination (P. Farcy, C.Gernez - IFREMER)

Patrick Farcy started this kick-off meeting session by welcoming all participants and thanking them for attending the meeting and the preparatory ones.

The actions of this coordination work package will deal with the common project management plan:

- Day to day management.
- Financial follow-up.
- Technical and Financial reporting.
- Consortium animation.
- Quality Assurance Plan
- Other management related issues.

These actions will be undertaken by Patrick Farcy and Sylvie Pichereau, who was formally introduced to the consortium as the JERICO-Next project manager.

During his presentation, Patrick explained that each partner representative will have to vote and agree on the following points:

- Add a new partner (COVARTEC) to the consortium.

  COVARTEC, a Norwegian self-establish company created by Dominique Durand, will take over some of IRIS activities planned in the project work plan. This decision was accepted by all partner representatives (33 partners out of 33 voted "yes")
• Validate the Scientific and Technical Advisory Committee and the TNA Selection Panel

The STAC, composed of Peter Herman (NIOZ, Chairman of the committee), Richard Lampitt (NERC and representative of Fix03), Laura Beranzoli (INGV and representative of EMSO), Eric Delory (PLOCAN and representative of NEXOS), Janet Newton (University of Washington), Roger Proctor (IMOS and University of Tasmania), Isabel Sousa Pinto (University of Porto and vice chair of EMBOS) and Alicia Lavin Montero (IEO), was accepted by all partner representatives.

The TNA management team is composed of Stefania Sarnocchia (CNR), Sylvie Pichereau (Ifremer), George Petihakis (HCMR), Charles Troupin (SOCIB), Jukka Seppälä (SYKE)

(33 partners out of 33 voted "yes").

Welcoming a new partner into the consortium requires the creation of amendment to the Consortium Agreement. This process has been launched by the coordination team and is waiting for the approval of the European Commission.

Another point presented by Patrick Farcy was the pre-financing received from the EC for the start of the project. Around 3,250,000 €, corresponding to 37.5% of the total grant minus the 5% of the guarantee fund, were transferred to IFREMER and shared between all partners.

Regarding the Consortium Agreement, there are still some pending issues but the Contract should be signed and available soon. The IFREMER legal department is waiting for some partners to sign their dedicated page to finalize the process.

An update will be made in the next weeks when the Amendment will be accepted by the Commission.

The second part of this presentation was presented by Caroline Gernez, from the IFREMER European and International Affairs office.

She first presented the Participant portal, which is useful from the proposal preparation to the end of the project. From a day-to-day management point of view, it will be used for:

- Preparation and submission of reports and deliverables
- Amendments to the Grant Agreement, if any
- Communication with EC
- Digital sealing of documents; digital signatures.

Regarding reporting modalities, Caroline Gernez reminded all participants that the reporting should be continuous (deliverables are uploaded into the participant portal) and periodic (financial and technical reporting should be submitted 60 days at the latest after the end of each reporting period).

Please be aware that some information must be collected on a continuous way (e. g. records and supporting documentation for justification of costs) rather than at the end of each reporting period.

Slides presented for WP9
The European context

A VISION!

- The JERICO-NEXT community emphasizes that we cannot understand the complexity of the coastal system if we do not understand the coupling between physics, biogeochemistry and biology.
- Reaching such an understanding requires new technological developments allowing for continuous monitoring of a larger set of parameters.
- It also requires an a priori definition of the optimal deployment strategy in view of coupling data of different kinds, monitored over largely different spatial and temporal scales.
- This is why JERICO-NEXT:
  - will focus its main line on the assessment of the intersections between physics, biogeochemistry and biology, and
  - will not be restricted to pure technological aspects but will also include fundamental scientific considerations within its RIA and JTA

From JERICO to JERICO-NEXT

LIST OF WPs

- WP1 - Integrated Science Strategy and Governance from Local to European Scales
- WP2 - Harmonization of technologies and methodologies - technical strategy
- WP5 - Data management
- WP8 - Outreach, communication and engagement
- WP6 - Virtual Access
- WP7 - Transnational Access to Coastal Observatories
- WP3 - Innovations in Technology and Methodology
- WP4 - Valorisation through applied joint research
Main objectives

- WP5: Develop the infrastructure of the JERICO network of coastal observatories as the central core of the European observatories
- WP6: Support European pre-research community by stakeholder involvement in strategy development
- WP7: Support strategic research agenda development
- WP8: Enhance the readiness of new observing platforms network by developing key performances of system in form of mock-up and test with full technical readiness
  Work packages addressing this objectives: WP1, 2, 3, 4

Main objectives (con’t)

- WP9: Create a step change in the objective system performance by developing ecosystem driven and ecosystem developed in JERICO
- WP10: Demonstrate the impact of the observing technologies and monitoring strategies and exchange the data between physical and biological science and industry actors
  Work packages addressing this objectives: WP1, 2, 3, 4
- WP11: Improve the cooperation with other observing infrastructure initiatives
  Work package addressing this objective WP2
- WP12: Improve a mid-term roadmap for coastal areas observation
  Work package addressing this objective WP3

The JERICO-NEXT Approach

WP9 COORDINATION TASKS

Lead by P. Farcy and S. Pichereau

- Day to day management.
- Financial follow up.
- Technical and Financial reporting.
- Consortium animation.
- Quality Assurance Plan.
- Other management related issues.

Project structure & management

STAC (and selection panel)

Peter Herman, NIOZ, Chairman of the committee
Richard Lampitt, NERC, and representative of JERICO
Laura Benacchio, INGV and representative of ESMO
Eric Dekey, PLOCAN, and representative of NEXOS
Jenet Newton, University of Washington
Roger Proctor, JNOS and University of Tasmania
Isabel Sousa Pinto, University of Porto and vice chair of EMISO
Alicia Lavin Montero, IEO.

TO BE VALIDATED BY THE ASSEMBLY
The WP leaders and co-leaders are the coordinators of their WP and assume that with the tasks leaders.

AMENDMENT

- IRIS partially withdrew from WP1 and from task 4.7
- It is due to internal restructuring and loss of competences (Translate Dominique's out!)
- IRIS propose to reduce its funding and ask to COVARTEC to take back the job
- COVARTEC propose to assume the WP1 leadership and task 4.7 activities for the same budget – 195 k€.
- The amendment need to be validated by the KOM

TO BE VALIDATED BY THE ASSEMBLY

VOTE

- Vote rules:
  - 2/3 of the partners quorum
  - 1 partner = 1 vote
  - Decision by 75% of the votes
- Vote sheet:
  - Name of the partner
  - Name of the representative
  - Accept or not the proposals (2)

COSTS

<table>
<thead>
<tr>
<th>WP</th>
<th>Activity</th>
<th>Leader/Coordinator</th>
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<tbody>
<tr>
<td>WP1</td>
<td>IRIS</td>
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<tr>
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</table>

Pre-financing

One pre-financing:
- 37.5% minus 5% (quarter funds) of the total EC contribution to the project have been transferred to the coordinator. ⇒ 32.5%

Amount received by Irnerius: 43250 000 euros

The coordinator will distribute the pre-financing only to those beneficiaries:
- Who have signed and returned to the coordinator the Form A of the grant agreement.
- Who have filled and returned to the coordinator the financial identification's form corresponding to their bank account details.
Milestones

Contract period:
- 01/09/2015 to 31/08/2019 (48 months)

Reporting periods:
- P1: 01/09/2015 to 28/02/2017 (18 months)
- P2: 01/03/2017 to 31/08/2018 (18 months)
- P3: 01/09/2018 to 31/08/2019 (12 months)

Intermediate report periods:
- Every 3 months of the contract, project status reviews to follow the progress of the WP and Tasks

General Assembly

Reporting periods:
- P1: 01/09/2015 to 28/02/2017
- P2: 01/09/2017 to 31/08/2018
- P3: 01/09/2018 to 31/08/2019
- ACS End of August 2019 - Hoever Brest

Project reporting

Activity/Financial reporting is a main contractual duty

Reports include:
- Periodic reports delivered to the EC 60 days after the end of each reporting period (12 or 18 months).
- One final report at the end of the project, and on request.

A Certificate of Financial Statements (CFS) is mandatory for every claim (annual or interim) in the form of reimbursement of costs, when the accumulated amount of reimbursed funding is equal or superior to 325 000 €.

Consortium agreement

- Still pending
- Apologies for the late query from the contract department of l'IRMER partly due to the zealous approach of our legal department.
- GA to finalise before mid-Octobe
Project management: essential points

Caroline GERNEZ - Ifremer

Content of presentation

1) Principal information sources: Participant Portal and Grant Agreement
2) Reporting modalities
3) Specific advice from the EC

Participant Portal


- New, essential tool, useful from proposal preparation until project’s end
- Preparation and submission of reports and deliverables
- Amendments to the Grant Agreement, if any
- Communication with EC
- Digital sealing of documents; digital signatures

Participant Portal: homepage

Reference documents and the H2020 online manual

Participant Portal: how to participate

Legal texts, annexes, related Grant Agreement (DGAC); work programmes, templates,

Participant Portal: H2020 online manual

- How to work with documents
- Projects timeline
- Project management tool
- Accompanying family
H2020 online manual

- "Grant management" chapter includes:
  - Key points
  - Amendments
  - Records & reports required
  - Deliberations
  - Dissemination & exploitation of results
  - Communicating your project
  - Grounds, audits, reviews & inspections
- Links to articles of AGMA
- Reference documents and templates at the end of each section

H2020 Grant Agreement

- Single document with all provisions

Reporting modalities

- Continuous reporting: deliverables (uploaded on the Participant Portal)
- Periodic reporting: periodic financial and technical reports, within 60 days after the end of each reporting period
- Final report: final financial and technical reports

Periodic reporting

- Periodic technical report:
  - Part of it generated automatically from content uploaded continuously on Participant Portal
  - Part to be written on free text
- Periodic financial report:
  - Form C (template in Annex 4 of GA)
  - Explanation of the use of resources
  - Request for interim payment

Final reporting

- Final technical report: publishable summary of the entire project (overview of results, exploitation and dissemination, conclusions, socio-economic impact)
- Final financial report:
  - Final summary financial statement
  - (automatically created, corresponds to the request for payment of the balance)
  - For beneficiaries requesting a total contribution of EUR 525,000 or more: certificate on the financial statements

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Specific advice from EC

- Some information must be collected on a continuous way (e.g., records and supporting documentation for justification of costs) rather than at the end of each reporting period.
- Please respect deadlines set by coordinator for reports.
  Late partners for financial reports (Forms C) will need to wait until next reporting period.

Specific advice from EC

- Deliverables must be clear: title, summary, table of contents (if appropriate), conclusion, link to other deliverables if any.
- No need to copy/repeat deliverables in reports.
2) WP1 - Integrated Science Strategy and Governance (D.Durand - COVARTEC)

Dominique Durand presented the work to be undergone in WP1 and its work plan for the first 18 months of the project.

The main objectives of this work package are:

- To deliver an **harmonized research infrastructure for coastal observations**, compliant with EMODNET and Copernicus.
- To ensure the sustainable provision of high-quality coastal multidisciplinary observations that can support
  - Progress and breakthrough in marine science
  - European policies and national duties
  - The development of business activities (e.g. marine services)
- To provide a framework for the realization of the project work plan
- To produce a long-term strategy for further development, integration, sustainability and relevance of coastal observatories in Europe

One of the main outcomes of this work package is the realization of a scientific strategy, to be applied to answer specific scientific questions, and policy requirements. As a networking activity it is mainly supported by the organization of dedicated workshops.

The financial and governance strategy is another key outcome of the work plan: its role is to make sustainable the infrastructure and the work supported by it. The legal issue should address the possible sketches to sustain the infrastructure in a dedicated governance. This work should be supported by use of economical models and involvement of staff from juridical offices.

Last but not least, there will be a great effort made to integrate the scientific and governance strategies into a comprehensive strategy for the sustainability of JERICO-NEXT and the delivery of an harmonized infrastructure, compliant with EMODNET, Copernicus etc. This will include an update of the Label document, with a wider meaning.

Dominique Durand then listed the main gaps and risks linked with WP1 actions and work plan and its interactions with other work packages: we have to make sure that we set up an efficient coordination with parallel initiatives in Europe (such as EuroGOOS, JPI-OCEANS and other European projects) and that we optimize coordination between WP1 and WP4, for maximizing outcomes from the JRAPs for the science strategy.

*Following his presentation, Dominique Durand answered the consortium questions and remarks regarding his work package. Below are the main points which are important to highlight.*
1] A workshop has to be organised to check how to report the use of the MSDF descriptors as a basis for analyzing threats.

A template document will be drawn and populated by CEFAS and CNRS for testing/validation purpose. This document will gather information about systems and data helping to feed the MSFD per countries.

2] Task 1.1 will give Input to WP8 T8.8 to help establishing section criteria for the establishment of the end user panel. Key partners will attend international conferences to organize strategy meeting with the relevant projects and communities.

Slides presented for WP1
WP1: Integrated Science Strategy and Governance

Outline
1. Main objectives of the WP & list of partners
2. Presentation of the tasks and interfaces with other WPs
3. Deliverables and milestones (of OA)
4. Main intermediate actions for the first 18 months to reach Milestones and associated agenda (including meetings, workshops)
5. Risks and gaps – questions to the partners

The JERICO-NEXT Approach

Objectives and needs
- Delivery of a harmonised research infrastructure for coastal observations, compliant with EUMONIT and Copernicus.
- To ensure the sustainable provision of high-quality coastal multidisciplinary observations that can support:
  - Progress and breakthroughs in marine science
  - European policies and national duties
  - The development of business activities (e.g., marine services)
- To provide a framework for the realisation of the project workplan
- To produce a long-term strategy for further development, integration, sustainability and relevance of coastal observations in Europe (WP1)

Organization
- Coordination: D. Durand (COVARTEC)
- Deputy coordinator: A. Gremare (CIVRS)
- Expected effort: 89 person-months
- 19 participants
- Duration: M1 – M48

Tasks and interfaces with other WPs
- Task 1.1: Literature review (D2.1, OA) (M1-11 M)
  - Environmental status and trends and their future prospects studied through European organisations, initiatives and projects
- Task 1.2: Science strategy (D2.2, OA) (M1-11 M)
  - To identify and define strategies that will help to ensure the efficient and effective development of the JERICO-NEXT research agenda focusing on the implementation of the research strategy to meet key scientific and societal challenges in the coastal ocean.
- Task 1.3: Data Management (D2.3, OA) (M1-11 M)
  - Specific activities with other JERICO databases and national data managing systems and organisations that provide a complementary overview of biological and chemical data on biodiversity and ecosystem processes in the coastal ocean.
- Task 3.1: Strategic and long-term sustainability (D3.2, OA) (M1-11 M)
  - Strategic long-term sustainability actions aligned with financial and legal governance structures for the sustainable implementation of JERICO-NEXT initiatives
- Task 3.2: Strategic vision and mission (D3.3, OA) (M1-11 M)
  - Roadmap for the future and the JERICO vision
Tasks and interfaces with other WPs

- Tasks 1.1 Literature review (DANIE, CERAM, M1, M18)
  - Literature search, analysis, and synthesis
  - Relevant literature review

- Basic WP: Biodiversity (Card, DVD, M20)
  - To identify the biodiversity and the risk of degradation of marine and coastal ecosystems
  - Initiation of collaborative networks

- Basic WP: M20
  - To analyze the biodiversity and the risk of degradation of marine and coastal ecosystems
  - Initiation of collaborative networks

- Basic WP: M18
  - To analyze the biodiversity and the risk of degradation of marine and coastal ecosystems
  - Initiation of collaborative networks

- Task 1.1.5: M20
  - To analyze the biodiversity and the risk of degradation of marine and coastal ecosystems

- Task 1.1.6: M18
  - To analyze the biodiversity and the risk of degradation of marine and coastal ecosystems

Sectors and interfaces with other WPs

Task 1.1 – literature review

- Lead partner: David Kuhl (CIFAS)

- Partners: IFN, IMR, CNRS (Mitolino), Dominique

- All WP partners considered as national representatives and acting through other tasks

- Aim to:
  - Consolidate the backbone of the future science strategy
  - Consider the main environmental threats within European coastal waters
  - Get an overview of coastal monitoring programs around Europe

Task 1.1: action plan

- Workshop M11 (indicators of worthiness: M11)
  - Key MSF indicators are to be analyzed for threats

- M1 – M7 (2017)
  - Indicators of worthiness for threats

- M18 (2018)
  - Indicators of worthiness for threats

- M18 (2019)
  - Indicators of worthiness for threats

- M18 (2020)
  - Indicators of worthiness for threats

- M18 (2021)
  - Indicators of worthiness for threats

- M18 (2022)
  - Indicators of worthiness for threats

- M18 (2023)
  - Indicators of worthiness for threats

Task 1.2 – Science Strategy

- Objectives
  - To propose a scientific strategy for the JERICO-II in coordination with the output of JERICO and its tight interaction with Tasks 1.1, 1.3, 1.4, 1.5, and 1.6

- Subtask 1.2.1 Interaction with the JERICO during the first 3 months of the project to optimize their sampling and monitoring strategy

- Subtask 1.2.2: To propose strategies to increase the effectiveness of coastal observatories in monitoring coastal waters based on: (1) literature review; (2) experiences gained from JERICO, and (3) coordination with other EU initiatives (if relevant)
Task 1.2 – Science Strategy

- Lead partner: CNRS : A. Grémare
- Other partners:
  - INRAE, C. G. Girard
  - CNRS, C. M. Stier
  - G.E.S, S. Lévy
  - IFREMER, M. Giron
  - INRAE, S. Seurin
  - IFREMER, S. Marmion
  - CNRS, M. L. M. Giron
  - IFREMER, P. Bethoux, C. A. Armentières
  - SOCEM (Task 1.4) & M. T. Tadic

Task 1.3/1.4: Interaction with relevant infrastructures and consortia

Task 1.3: Interaction with related infrastructures and consortia
- Partners: INRAE, CNRS, AZIM, UMR LIV, HCMR, SYKE, NIOCS, CRICOF, CNRS, C-ARMS, EMI, EMBRIDGE, PRESET, ICOS, NERC, COST, CRICOF, EMBRIDGE, PRESET, ICOS, NERC

Task 1.4: Interaction with European and international ocean observing networks
- Partners: SOCEM, M. L. M. Giron, HCMR, SYKE, NIOCS, C-ARMS, C-ARMS, CNRS, EMBRIDGE, PRESET, ICOS, NERC

Interaction with European initiatives

Task 1.3 & 1.4

Establish operational functioning links with:
- existing networks
- communities
- projects
- organizations representing biological and/or biogeochemical R & D and R & D of relevance to JERICO-NEXT

We shall establish close interactions and mechanisms for:
- exchange of know-how
- best practices
- alignment of strategies

In particular with:

- LifeWatch
- EMBRIDGE
- ICOS
- MARSS
- GOA-ON
- EMODN

The STAC gathers representatives of EMODN/BRIC-EU, EU/EU, EMODN, FP7/FP8, FP7-MEDICO, EMBRIDGE
**Task 1.5 – Economics and Governance**

- **Chairman:** M. P., Florence
- **Contributors:** CNRQ, DRL, NSCL, CCLN, CEN, SOCR

- **Objectives:**
  - Evaluate the role of economic and governance aspects in ensuring long-term sustainability of the EURACOM project.
  - Implement mechanisms to foster economic development and governance effectiveness.

**Task 1.6 – Roadmap for the future**

- **Lead Partner:** IFM
- **Contributors:** CERF, CNRS, IME, SORC, SYKE, ENS, CEFA

- **Scope:** From a holistic analysis of the WP1 results to a realistic roadmap for the future:
  - Science strategy taking into account the feedback from WP4
  - Integration of an environmental and economic strategy with WP5
  - Integration of a scientific and governance strategy into a comprehensive strategy for the sustainability of EURACOM and the delivery of an harmonized infrastructure, compliant with the EU guidelines, etc.

**WP 1 – Outcomes**

- Scientific strategy to be applied to propose specific scientific objectives and policy requirements. As a networking activity, it is mainly supported by the organization of expert workshops. This is managed in the task 1.1.1.
- Financial and economic strategy to promote economic and the work supported by the legal and ethical topics. This is managed in the task 1.1.1.
- Integration of the scientific and governance strategies into a comprehensive strategy for the sustainability of EURACOM and the delivery of an harmonized infrastructure, compliant with the EU guidelines, etc.

**Deliverables**

- **D1.1:** Review of sites’ status (Task 1.5) 4
- **D1.2:** Scientific strategy (Task 1.5) 4
- **D1.3:** Governance and financial strategy (Task 1.5) 4
- **D1.4:** Roadmap for the future (Task 1.5) 4
### WP1 Milestones

<table>
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<th>WP1.1</th>
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<th>WP1.3</th>
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<tbody>
<tr>
<td>Task 1</td>
<td>Task 2</td>
<td>Task 3</td>
<td>Task 4</td>
<td>Task 5</td>
</tr>
</tbody>
</table>

- WP1.1: [Description of Task 1]
- WP1.2: [Description of Task 2]
- WP1.3: [Description of Task 3]
- WP1.4: [Description of Task 4]
- WP1.5: [Description of Task 5]

### Action plan – 18 months

- **Workshop Task 1** at KG [Date]
- [Meeting details]
- Joint workshop WP1/WP4 at KG [Date]
- [Meeting details]

- **Risks and gaps – questions to the partners**
  - Coordination with possible initiatives in Europe (HAS 1.3 and 1.4)
    - [List of initiatives]
  - [Further details]
  - [Further details]
  - [Further details]
  - [Further details]
  - [Further details]
  - [Further details]

- **Optimising coordination between WP1 and WP4**
  - [Strategic planning]
  - [Strategic planning]
  - [Strategic planning]

- **Risks and gaps**
  - [List of risks and gaps]
  - [List of risks and gaps]
  - [List of risks and gaps]
  - [List of risks and gaps]
  - [List of risks and gaps]
3) WP2 - Harmonization of technologies and methodologies - technical strategy (R.Nair - OGS)

Rajesh Nair introduced to the consortium the WP2 work plan and what is planned for the first 18 months of the project.

This work package aims at harmonizing technologies, methodologies and procedures across the JERICO observing network in the JERICO-NEXT project.

This will be done through several actions:

- organizing, managing and reporting on the WP during the lifetime of the project;
- consolidating ongoing network harmonization efforts carried over from the concluded JERICO project;
- extending these efforts to include new systems and sensors;
- standardised operations and processes, as much as possible.

WP2 has strong links with other JERICO-Next work packages, such as WP1, 3, 4 and 5. Its actions will deal with systematization (T2.1), continuity (T2.2), expansion (T2.3), integration (T2.4), reliability (T2.5) and qualification (T2.6).

Rajesh Nair explained that part of the work to be done by WP2 is to consolidate the network harmonization actions started in the JERICO project. By doing so, the WP2 partners will carry forward ongoing harmonization attempts within the JERICO network, reviewing accomplishments and update and revise relevant documentation.

It was highlighted during the presentation that, as for the JERICO project, the work of this work package was related to the response from the end user and the partners. Without a good cooperation and relevant answers and feedback, the work to be done won’t be as efficient as planned. Quality of information and response is the key.

Slides presented for WP2
WP2: Harmonization of technologies and methodologies - technical strategy

Main objective of WP2

Harmonization of technologies, methodologies and procedures across the JERICO observing network in the JERICO-Next project.

This will involve:
- organizing, managing and reporting on the WP during the lifetime of the project;
- consolidating ongoing network harmonization efforts carried over from the concluded JERICO project;
- extending these efforts to include new stations and sensors;
- standardizing operations and processes, as much as possible.

Tasks

Task 2.1: Coordination of network harmonization (M1-M6);
Task 2.2: Consolidation of initiated network harmonization actions (M1-M4);
Task 2.3: Harmonizing new network systems (M1-M4);
Task 2.4: Harmonizing new network sensors (M1-M4);
Task 2.5: Calibration and assessment (M1-M4);
Task 2.6: The JERICO Label Technical Committee (M1-M4)

Underlying aims

Task 2.1: Systematization
Task 2.2: Continuity
Task 2.3: Expansion
Task 2.4: Integration
Task 2.5: Reliability
Task 2.6: Qualification

List of partners

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<th>M1-M6</th>
<th>M7</th>
<th>M8</th>
<th>M9</th>
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Tasks

Activity descriptions, Leads & Contacts

Deliverables

02.2. Report on the status of NAO-style systems and coded coastal observations within the JERICO Network and, more generally, in the European context (M11)
02.3. Report on the status of sensors used for measuring nutrients, biogeochemical optical properties, parameters of the marine carbonate system, and the measured profiles within the JERICO network and, more generally, in the European context (M10)
02.4. Report on ongoing harmonization initiatives within the JERICO network for the following three key technology areas: Fixed Platforms, Floating & Stranded Systems (M01)
02.5. Report on Best Practice in the implementation and use of NAO-style systems and coded coastal observations (M02)
02.6. Report on Best Practice in the utilization of sensors used for measuring nutrients, biogeochemical optical properties, parameters of the marine carbonate system, and the measured profiles within the JERICO Network and more generally, in the European context (M03)
02.7. Report on the activities relating to calibration and assessment carried out during the project (M04)
02.8. The “JERICO-NEXT Label” definition (M10)

Milestones

03.01: WP21 Kick-off Meeting (M1)
03.02: Final Workshop of Task 2.1. “Harmonizing the new network systems” (M10)
03.03: First Workshop of Task 2.1. “Harmonizing the new network systems” (M10)
03.04: First Workshop of Task 2.2. “Harmonizing the new network systems” (M10)
03.05: Second Workshop of Task 2.1. “Harmonizing the new network systems” (M10)
03.06: Second Workshop of Task 2.2. “Harmonizing the new network systems” (M10)
03.07: Second Workshop of Task 2.1. “Harmonizing the new network systems” (M10)
03.08: Second Workshop of Task 2.2. “Harmonizing the new network systems” (M10)

Main actions (M1 – M18)

(Some) risks and gaps

The transition from JERICO to JERICO-NEXT in Task 2.2

- Task 2.2.3: Calibration of integrated network measurement systems
  - To ensure that the measurement systems are calibrated and validated
  - To ensure that the measurement systems are maintained and monitored

Accurate information will be the key!
(Some) risks and gaps

The transition from JERICO NEXT to JERICO 2.0

Subtask 2.4.1: Nutrient sensors

Key information required from partners

- Which sensors are being used/been used on which platforms?
- Calibration
- Annual sampling cost
- Seasonal and diurnal variations
- Reliability, accuracy, precision
- Data transfer
- Data sharing
- Data visualisation
- Quality assurance procedures

Once more, quality of information and response!
4) WP3 - Innovations in Technology and Methodology (G.Petihakis - HCMR)

George Petihakis presented the main goals and objectives for WP3 and the relevant information that the partners might need.

WP3 main objective is to enhance the capability and the quality of measurements in the coastal infrastructures taking advantage of the strong consortium of partners who are responsible for the majority of coastal observatories in Europe.

Considering that coastal systems are very dynamic both in terms of physics and biology, something that is reflected in the existing observation methods, a multi-disciplinary approach is followed. The experience gained from the JERICO project played a central role in the planning and strategic decisions made for the focus in this work package. Particular emphasis will be paid to the biological components of the ecosystem.

George Petihakis then listed the main risks and gaps for WP3:

- Limited improvements on techniques, implementation of analytical tools. This might be resolved by selecting improvements on their feasibility according to the financial support allocated.
- Extending float capacities: incompatibility with current float specifications.
- Shortening of the planned deployment time of the YOYO mooring because of hardware failures. One answer would be to make available enough spare parts for critical components of the system.
- Loss of prototype floats at sea during early stages of work. This might be avoided by testing prior to sea trials and work in optimal weather and sea state conditions.
- Limited number of sensors adapted to the video array. One answer will be to select sensors according to the financial support allocated for this action.
- Link with research results on OSSE from Task 3.7 to help evaluate best radar network developments → If OSSEs results are not available, radar network improvements will be performed based on state of the art available methods.

To conclude his presentation, George Petihakis highlighted that it is very important to adopt a good communication within the work package and between all work packages.

Partners should clearly demonstrate new developments and disseminate as much as possible their work and achievements throughout the project lifetime.
5) WP4 – Valorisation through applied joint research (I. Puillat - IFREMER)

Ingrid Puillat presented the work to be undergone within WP4 and its main goals.

This work package can be seen as a synthesis of the project, built upon the activities of the other work packages. This is a way to gather the whole consortium and to create added value in JERICO-Next.

It is built around applied Joint Research Activity Projects (JRAPs) according to the 6 JERICO scientific areas.

There are 6 JRAPs within this work package:

- JRAP-1 on pelagic biodiversity (led by SMHI)
- JRAP-2 on benthic biodiversity (led by CNRS)
- JRAP-3 on chemical contaminant occurrence and related biological responses (led by NIVA)
- JRAP-4 on hydrography and transport (led by AZTI)
- JRAP-5 on carbon fluxes and carbonate system (led by FMI)
- JRAP-6 on operational oceanography (led by SOCIB)

Ingrid Puillat then introduced the links WP4 with other work packages and what the needs of WP4 from other work packages.

This work will be helpful for the harmonization of methods (WP2), for feedback after application of technological developments (WP3), for the application of data management procedures (WP5) and for the communication of results and support materials (WP8).

During her presentation, Ingrid Puillat highlighted several gaps and risks that are listed below:

- Misunderstanding of the need to implement science strategies, integrating physics biology &/or chemistry among JRAP teams
- Misunderstanding of the links with WP5 that will frame/drive the JRAPs’ data flow
- Misunderstanding the work to be done by each JRAP within this work package. JRAP leader role is very important, it will ensure the feasibility of the work done.

After her presentation, several remarks and comments were made regarding the work to be done and are listed below:
1] In case we need feedback or input, there should not be more work requested by National MFSD coordination (Ministries) but we should show how we can help and support.

We need to coordinate our way to communicate, at least at JERICO level and between projects when it is possible (for instance when a same person in an institute can speak for several projects).

We have to prove that JERICO-Next knows, understands and provides answers to the MFSD national pilot institutes.

2] We have to try to have a common sight and view between the 6 JRAPs and to cross cut between them. We can adjust the timetables if necessary to fit the objectives and goals.

One way would be to see if there is an opportunity to have common test sites in the different JRAPs: the idea is to adjust the JRAP timetables in order to outcome common actions and/or cross cuttings.

3] We need to have a meeting with the MSFD representatives and stakeholders, explaining what we are able to do. This could be done through the end-user panel or a meeting/workshop.

Slides presented for WP4
WP4: Valorisation through applied joint research
I. Puillat - Ifremer
jerico@ifremer.fr

1. Main objectives & partners

- Objectives
  - a synthesis of the project
  - built upon activities in other WPs
  - gathering the consortium
  - around applied Joint Research Activity Projects (JRAPs) according to the 6 JERICO scientific areas
  - to put forward the added value of JERICO-NEXT

1. Main objectives & partners

- Organisation and partnership
  - Coordination: I. Puillat, Deputy coordinator: A. Grenouille (CNRS)
  - Organisation and management of WP4
    - 6 JRAPs, with a leader for each collaborative work with
      - WP1: formulated by the management task 4.7: Ifremer, AZTI, CNRS, IFREMER, NBA, NIVA, SMIR, SCDO, COTECE
  - Expected effort: 162 M€ months / 19 partners

1. Main objectives & partners

- 6 JRAPs:
  - JRAP-1: on pelagic biodiversity (B. Karlson, SMIR)
  - JRAP-2: on benthic biodiversity (A. Grenouille, CNRS)
  - JRAP-3: on chemical contaminants: occurrence and related biological responses (A. Nuzzetto, NIVA)
  - JRAP-4: on hydrography and transport (A. Rubio, AZTI)
  - JRAP-5: on carbon fluxes and carbonate system (L. Laakso, FMV)
  - JRAP-6: on operational oceanography (B. Mirame, SCDO)

1. Main objectives & partners

- WP4: Valorisation through applied joint research
  - I. Puillat - Ifremer
  - jerico@ifremer.fr

2. Interfaces with other WPs

"During the JERICO-NEXT kick-off meeting a specific session will be organized to present the WP4 and the 6 JRAPs in order to initiate and ensure the interactions with task 1.1 of WP1."

- WP4 Interface
- WP4 Interface

"Actions with WP1: meeting for scientific strategy, where and when? WP4 for
the Scientific Strategy in progress"
2. Interfaces with other WPs

- Interactions with WP2, 3, 5, 8:
  - WP4 workshop (5: M18 (Feb. 2017))
  - WP4 workshop (5: M18 (Aug. 2019))
  - WP1 dedicated talk for WAPs (see WP3 presentation)

- Actions in the tube or to push in the tube
  - Scientific committee for publications review
  - Procedure for data flow to be given to WAP (WP9)
  - Gathering photos, videos, and other info: data entry and in-field

3. Deliverables and milestones (ref DOA)

<table>
<thead>
<tr>
<th>Deliverables</th>
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</thead>
<tbody>
<tr>
<td>Milestone 1</td>
</tr>
<tr>
<td>WP6, WP8</td>
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<tr>
<td>WP6, WP8</td>
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<td>WP6, WP8</td>
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4. Deliverables and milestones (ref DOA)

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<tr>
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<td>WP6, WP8</td>
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<td>WP6, WP8</td>
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5. 18-month timeline

<table>
<thead>
<tr>
<th>Time line</th>
<th>WP1/2/3/4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec. 15</td>
<td>Meeting with WP5/6/7/8/9</td>
</tr>
<tr>
<td>Mar. 16</td>
<td>WP8 strategy analysis</td>
</tr>
<tr>
<td>May 18</td>
<td>WP1 strategy analysis</td>
</tr>
<tr>
<td>Jun. 18</td>
<td>WP1, WP4</td>
</tr>
<tr>
<td>Jul. 18</td>
<td>WP1, WP4</td>
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<tr>
<td>Aug. 18</td>
<td>WP1, WP4</td>
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<tr>
<td>Sep. 18</td>
<td>WP1, WP4</td>
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<tr>
<td>Oct. 18</td>
<td>WP1, WP4</td>
</tr>
<tr>
<td>Nov. 18</td>
<td>WP1, WP4</td>
</tr>
<tr>
<td>Dec. 18</td>
<td>Meeting with WP5/6/7/8/9</td>
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<th>WP1/2/3/4</th>
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<tr>
<td>Jun. 18</td>
<td>WP1, WP4</td>
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<td>Jul. 18</td>
<td>WP1, WP4</td>
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<tr>
<td>Aug. 18</td>
<td>WP1, WP4</td>
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<tr>
<td>Sep. 18</td>
<td>WP1, WP4</td>
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<tr>
<td>Oct. 18</td>
<td>WP1, WP4</td>
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</tr>
<tr>
<td>Dec. 18</td>
<td>Meeting with WP5/6/7/8/9</td>
</tr>
</tbody>
</table>
6. WP4: Risks and gaps

- Misunderstanding of the need to implement science stratigies integrating physics biology & chemistry among JRAP teams
- Misunderstanding of the links with WP5 that will frame the JRAP data flow

!! JRAP members... Your role is important, because you need to act at the crossroad of WP4!!!

7. More... for each JRAP

JRAP1: Pelagic biodiversity

Bengt Karlson, SMIHL, bengt.karlson@smiHL.se

JRAP1: Main Objectives

- To get closer to resolving natural variability in the sea with regard to plankton
- To improve the understanding of the development of certain algal blooms
- To exemplify how JERICHO-REX can help address MSFD requirement (01 Marine biodiversity for the pelagic realm, CI Estuarine systems statement)
- To use JERICHO-REX observation platforms and other infrastructure

JRAP1: Preliminary Strategy

- Carry out short term studies of different types of algae blooms
- Multi discipline approach: biological, chemical and physical oceanography
- Multi platform approach: R/V, buoys, Ferrybox systems & Remote sensing
- To combine novel methods with established ones
  - Automated water sampling and traditional water sampling
  - Automated in situ sensors for in situ optical properties such aschl. fluorosence and spectral fluorometry for photosynthetic pigments
  - Automated identification and enumeration of organisms
    • Protein fingerprinting by Cytometry on site and on ships
    • High throughput sequencing of 16S and 18S rRNA
  - Counting and identifying organisms using the light and electron microscope

JRAP1: plans for the first 18 months

- Interactions with WP1
  - Science strategy
- Interactions with WP3
  - Synthesis of approaches, development of methods, e.g Imaging Flow Cytometry, multi spectral fluorometry, molecular methods
- Interactions within WP4
  - Planning of activities together with other JRAPs
- Interactions with WP5
  - Definitions of data types and data formats
JRAP#1: plans for the first 18 months

- Study at Stenger's observatory in the Stenger's PAN, ORL, RIG, and SARS.
- Sampling likely at PAPA, ASER, and AWIR.
- Phasing a network of monitoring sites.
- Deployment of monitoring.
- Deployment of devices.
- Description of monitoring.
- Description of monitoring devices.
- Preparations for studies in 2017.

JRAP#2: Main Objectives

- Assessing spatial-temporal changes in benthic diversity under different sources of disturbance.
  - Using new tools for assessing biodiversity.
  - Testing new methodological developments (e.g., MRAC and WRIP).
  - Coupling biological, biogeochemical, and hydrochemical observations.
  - Coupling new data acquisition with existing observing systems.
- Monitoring potential environmental controls and thus potential proxies of biodiversity.
  - MFDQ (Descriptive 1).

JRAP#2: Preliminary Strategy

- Historical data and spatial survey.
- Macrobenthic biodiversity sampling carried out in March and October 2017. Since 1992, on six stations off the coast of France, three stations from the northernmost site and three stations from the southernmost site.
- Monitoring of biodiversity and functions (March 2017).

JRAP#2: Main Objectives

- Assessing functional consequences resulting from spatial-temporal changes in benthic diversity.
  - Including new biological compartments in the assessment of biodiversity.
  - Testing new methodological developments (e.g., MRAC and WRIP).
  - Coupling biological, biogeochemical, and hydrochemical observations.
  - Using a hierarchical approach to study the interactions between the different levels of parameters controlling ecosystem functions.
- MFDQ (Descriptive 1).
- Biological diversity.
- Non-indigenous species.
- Food web.
- Ecosystem stability.
- See final outputs.

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**JRAP#2: Preliminary Strategy**

- Example: 3. Effects of the inputs from the Elombe River and the West Elombe Wood Patch
  - Several different surveys
  - 3D mapping method over two locations,
    - seabed and
    - river
  - Two kinds of stations (biologs, Deployment
    - survey)
  - Ocean transect to measure the impact of seasonal changes in the water flow of the
    - river
  - Pore water comparison with previous
    - sampling cruise (summer, ECOFISH project)
  - Use JRAP3 for 2016, 2017, 2018, 2019
    - JRAP (NPP) 2016, 2017, 2018, 2019
    - JRAP (NPP) 2016, 2017, 2018, 2019

**JRAP#2: plans for the first 18 months**

<table>
<thead>
<tr>
<th>Time period</th>
<th>Main Science</th>
<th>Goal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct 2015-Jan</td>
<td>Development of the strategy</td>
<td>All</td>
</tr>
<tr>
<td>Jan - Aug 2016</td>
<td>Interaction with WPS for DAI</td>
<td>All</td>
</tr>
<tr>
<td>Oct 2016 - Feb 2017</td>
<td>Processing and analysis of historical data</td>
<td>All</td>
</tr>
</tbody>
</table>

**JRAP#3: Main Objectives**

- To demonstrate the use of JERICO-CRI as a support for the implementation of MSFD on marine contamination (DB).
  1. To discover "new" marine contaminants and resolve their spatial distribution in the North Sea and Norwegian Sea.
  2. To explore the drivers of "new" contaminant distribution in the region by analyzing dependencies on water physical-chemical parameters.
  3. To demonstrate the integrated use of fixed platform and passive samplers for monitoring of "legacy" hydrophobic contaminants.
  4. To assess, in field, biological responses to contaminant stress.

**JRAP#3: Preliminary Strategy**

- High spatial resolution. 2 campaigns (summer/winter).
- Samples will be analyzed for: currently used pesticides, pharmaceuticals, personal care products and synthetic additives. (about 6 substances)
- Data from FerryBox sensors (Salinity, temperature, turbidity, Chlorophyll) used for statistical exploratory analysis.
JRAP#3: Preliminary Strategy

Preliminary Strategy
2. Demonstration of integrated monitoring based on fixed platforms and passive sampling.

JRAP#3: plans for the first 18 months

JRAP#4: Main objectives

4D characterization of trans-boundary shelf/slope hydrodynamics and transport

Anna Rubio, AZTI, arubio@azti.es

JRAP#4: Preliminary Strategy

3. Study Area: 16 days of intensive Mediterranean, Eurasian, Mediterranean, and Western Mediterranean monitoring (May - June 2019. Among others: 1. Evaluation of the impact of the current climatic conditions on the distribution of the region's coral reefs. 2. Assessment of the impact of anthropogenic activities on the distribution of coral reefs. 3. Evaluation of the impact of the current climatic conditions on the distribution of the region's fish populations. 4. Evaluation of the impact of the current climatic conditions on the distribution of the region's corals. 5. Evaluation of the impact of the current climatic conditions on the distribution of the region's corals.)

JRAP#4: Preliminary Strategy

3. Study Area: 16 days of intensive Mediterranean, Eurasian, Mediterranean, and Western Mediterranean monitoring (May - June 2019. Among others: 1. Evaluation of the impact of the current climatic conditions on the distribution of the region's coral reefs. 2. Assessment of the impact of anthropogenic activities on the distribution of coral reefs. 3. Evaluation of the impact of the current climatic conditions on the distribution of the region's fish populations. 4. Evaluation of the impact of the current climatic conditions on the distribution of the region's corals. 5. Evaluation of the impact of the current climatic conditions on the distribution of the region's corals.)

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**JRAP#4: Preliminary Strategy**

- **Study Areas**: SE Bay of Biscay, Mediterranean, German Bight
- **Communication**: Based on historical data, new observations (SACOS-CAT), >5 yrs
- **Objective**: Determine relationships between biogeochemical processes and environmental variables.

**Coastal carbon fluxes and Biogeochemical cycling**

**Lauri Laakso**
Finnish Meteorological Institute
lauri.laakso@fmi.fi

**JRAP#5: Main Objectives**

- **To understand variability of sea-air carbon fluxes throughout European coastal seas**
- **To understand feedbacks and responses between the carbonate system, ecosystem and environmental variables.**

**Study sites**

- Basic Sites:
  - Norwegian Shelf, Irish Sea
  - Mediterranean Sea
  - Bay of Biscay, Western Channel

**JRAP#4: plans for the first 18 months**

<table>
<thead>
<tr>
<th>Date</th>
<th>Task</th>
<th>Lead</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>30/09/15</td>
<td>Review of existing systems, historical data, protocol development</td>
<td>All</td>
<td></td>
</tr>
<tr>
<td>02/10/15</td>
<td>Deployment of 2 MP system at NIO</td>
<td>CNR-Ispra</td>
<td></td>
</tr>
<tr>
<td>02/10/15</td>
<td>Participation in task 3.2.1 (10% cap) - Monitoring new Mediterranean sites</td>
<td>CNR-Ispra</td>
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<tr>
<td>06/12/16</td>
<td>Deliver Draft</td>
<td>All</td>
<td></td>
</tr>
<tr>
<td>07/12/16</td>
<td>Finalization of further deployments with NIO</td>
<td>All</td>
<td></td>
</tr>
<tr>
<td>07/12/16</td>
<td>Present results of JRA at EGU</td>
<td>All</td>
<td></td>
</tr>
<tr>
<td>12/12/16</td>
<td>Finalization of study</td>
<td>All</td>
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</table>
**JRAP#5: plans for the first 18 months**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 2016</td>
<td>Kickoff meeting to define the scope and milestones</td>
<td>All JRAP partners</td>
</tr>
<tr>
<td>Feb 2016</td>
<td>Development of the data collection plan</td>
<td>All JRAP partners</td>
</tr>
<tr>
<td>Mar 2016</td>
<td>Data collection and processing</td>
<td>All JRAP partners</td>
</tr>
<tr>
<td>Apr 2016</td>
<td>Analysis of data and preparation of initial products</td>
<td>All JRAP partners</td>
</tr>
<tr>
<td>May 2016</td>
<td>Interpretation of products and publication of results</td>
<td>All JRAP partners</td>
</tr>
<tr>
<td>Jun 2016</td>
<td>Final report and conclusions</td>
<td>All JRAP partners</td>
</tr>
</tbody>
</table>

**JRAP#6: Operational oceanography and coastal forecasting**

Baptiste Mourre, Joaquin Tintoré
SOCIB
bmourre@socib.es

**JRAP#6: Main Objectives**

- To Show the importance of JERICO-NEXT observations for the validation of regional models implemented in the coastal ocean,
- To Give recommendations for coastal forecasting system improvements, both in terms of models and observations.

**JRAP#6: Preliminary Strategy**

**Task 1 – Model assessment**

- Subtask 1.1 – Models without data assimilation
- Subtask 1.2 – Models including data assimilation
  - Observing System Experiments (OSSEx)

**Task 2 – Coastal ocean forecasting system improvements**

- Subtask 2.1 – Modelling improvements
- Subtask 2.2 – Observing System Improvements
  - Observing System Experiment (OSSEx)

**Partners and Areas**

- **8 partners**
  - SO CIIB (Spain)
  - IH (Portugal)
  - AECI (Spain)
  - CMCC (Italy)
  - CNR (Italy)
  - FMI (Finland)
  - HCMR (Norway)
  - IMR (Norway)

**JRAP#6: plans for the first 18 months**

- Month 3: Proposal of model assessment strategy
- Month 4: Preliminary analysis of model performance
- Month 5: Validation of model performance
- Month 6: Final report of model assessment
- Month 7: Final report of model assessment
- Month 8: Final report of model assessment
6) WP5 – Data management (L.Perivoliotis - HCMR)

Leonidas Perivoliotis presented the work to be done by his work package, dealing with data management.

During his presentation, Leonidas Perivoliotis listed the main challenges of WP5, which are as follows:

- Integration of the biological data in the JERICO NEXT data portfolio
- Manage a diverse and non-homogeneous data system as data from different communities will be available
- Maintain and strengthen the operational links with EMODNET and CMEMS (Copernicus Marine Environment Monitoring System) and the connections with the SDN network
- Increase the quantity and the quality of the data available through the major European infrastructures.

Leonidas Perivoliotis stated that JERICO-Next will not build its own Data Center but that data will be directed to the major European Infrastructures and they will be available to the community.

In order to implement the coordination, four dedicated WP meetings have been scheduled (M6, M18, M30, M40) besides the GAs in order to report in details the implementation progress of the DoA.

A JERICO-NEXT Data Management Committee has been established (HCMR, Ifremer, VLIZ, EuroGOOS and SOCIB) for a better coordination of the activities and the more efficient communication with the relevant WPs of the project.

Leonidas Perivoliotis took the opportunity to list the possible gaps and risks related to his work plan and the work planned:

- The implementation timelines of WP4 and WP5 should be further adjusted in order coordinate the data flow within the project to be more efficient.
- For a part of the JERICO-NEXT data (novel biological data, HF Radar data) the standards regarding the dissemination procedures in European infrastructures are not yet available and will be probably proposed through the project’s activities.
- The operational interfaces for the data dissemination will be established with EMODNET and Copernicus

Following his presentation, several members of the consortium made some comments and remarks about what was presented and on the work planned for WP5. These comments are listed below:

1] The data should be fully available at the end of the project, at least most of it. To do so, we should all discuss to make sure we deliver the same type of data.
2] There is a need for adjusting timeline between WP4 & WP5: we need to know what data type and when they are expected to be dispatched to WP5 (sampling frequency and acquisition date can be informed later).

3] We have to be clear on our data policy and our promotion of free data access. The specificity of the biological data has to be introduced

**How to transfer the data to the project: difficulties about the size and access, the partners shall work on this.** This is a challenge for the JERICO-Next project and consortium.

Slides presented for WP5
WP5: Data management

Objectives
- Integrate the biological data in the JERICO-NEXT data portfolio
- Define the project's data policy by enhancing/promoting the accessibility to the data
- Implement a more efficient platform registration and metadata management system
- Define properly the data flow within JERICO-NEXT
- Improve the quality of measurements derived from platforms that are widely used in coastal monitoring such as the Argo floats, HF radars and Gliders
- Explore the possibility to connect the JERICO-NEXT Data system with a virtual access infrastructure

WP5: Data management

Challenges
- Integration of the biological data in the JERICO-NEXT data portfolio
- Management of a diverse and non-homogeneous data system as data from different communities will be available
- Maintain and strengthen the operational links with EMODNET and C-OBIS (Capanus Marine Environment Monitoring System) and the connections with the SRA network
- Increase the quantity and the quality of the data available through the major European infrastructures

JERICO NExt is not building its own Data Center
Data will be directed to the major European infrastructures and they will be available to the community

WP5: Data management

Partnership and Workload

<table>
<thead>
<tr>
<th>Partnership</th>
<th>Main Month</th>
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<tbody>
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WP5: Data management

Tasks Overview

Task 5.1: Data policy and distribution (EuroGOOS)
- November - December 2020
- January - March 2021
- May - July 2021

Task 5.2: Integration of biological data (HCMR)
- June 2020

Task 5.3: Platform registration and metadata management system (EMODNET)
- July 2020

Task 5.4: Increase the accessibility of data from the M3-M4 platform to the public (HCMR)
- August 2020

Task 5.5: Enhancement of Quality Control procedures for sensor-based chemical data (HCMR)
- September 2020

Task 5.6: Definition of Quality Control procedures for HF radars data (AATI)
- October 2020

Task 5.7: Scientific collaboration procedures for ocean data collection (SOOS)
- November 2020

Task 5.8: Linking JERICO-NEXT activities to a Virtual Access Infrastructure (EMODNET)
- December 2020

WP5: Data management

Task 5.1: Data Policy and Distribution (M3-M40)

Objectives of the task:
- Provide recommendations on effective and efficient data policy for data quality

WP5: Data management

Interaction with other WP5s: WPM, WPM2 and WPM3
Task 5.1: Data Policy and distribution (M1-M48)

5.1.1 Preparation of documents with recommendations on organized free data policy or decisions from NCP, MPA, MPA, and other organisms to document (either:
- Know what existing metadata documents are:
  - MPA regulations - MPA policy and practices: Jarvis of exchange of metadata and related data and products, including guidelines and arrangements to conduct commercial research activities.
- DCO: Depositions - Data Exchange Policy
- DCO guidelines
- ORS: Open Research Standards
- Data made available, ORS: JMP, JOA, OA...
- NCPs of data agreements
- Include data clerks (e.g., DCP) if data are important, complete, but also explore other sources for links in data management with ENAM, MPA, MPA, and Australia to avoid duplication of efforts and management.

Task 5.1: Data Policy and distribution (M5-M68)

5.2.1.4 Review of the ENAM Metadata Catalogue containing information on task 5.2 output. The catalogue will include the ENAM metadata catalogues, including summaries, data, and products using data from the ENAM Metadata Catalogue: Enam, NCP, MPA, and MPA standards, and recommendations.

The task will make use of the existing ENAM Metadata Catalogue that needs to be refined, to ensure that ENAM Metadata Catalogue (or ENAM Metadata Catalogue) and add more information about the ENAM Metadata Catalogue.

- Allow ENAM Metadata Catalogue for the ENAM Metadata Catalogue to be updated for ENAM metadata catalogues.
- Allow ENAM Metadata Catalogue for the ENAM Metadata Catalogue to be updated for ENAM metadata catalogues.
- Allow ENAM Metadata Catalogue for the ENAM Metadata Catalogue to be updated for ENAM metadata catalogues.
- Link to the ENAM Metadata Catalogue for ENAM Metadata Catalogue.
- Use in the ENAM Metadata Catalogue for ENAM Metadata Catalogue.
- Use in the ENAM Metadata Catalogue for ENAM Metadata Catalogue.
- Use in the ENAM Metadata Catalogue for ENAM Metadata Catalogue.

Task 5.1: Data Policy and distribution (M5-M68)

5.3.1.3 Defining specifications for ENAM Metadata Catalogue and ENAM Metadata Catalogue system.

A dedicated ENAM Metadata Catalogue will be formalized in charge for defining the specifications and defining the ENAM Metadata Catalogue system.

- A list of standard and/or catalogues for data exchange (e.g., ENAM Metadata Catalogue).
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- A list of standard and/or catalogues for data exchange (e.g., ENAM Metadata Catalogue).

Task 5.2: Integration of Biological Data (M1-M48)

5.2.2.1 Defining specifications for ENAM Metadata Catalogue system.

A dedicated ENAM Metadata Catalogue system will be formalized in charge for defining the specifications and defining the ENAM Metadata Catalogue system, specifically:
- A list of standard and/or catalogues for data exchange (e.g., ENAM Metadata Catalogue).
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- A list of standard and/or catalogues for data exchange (e.g., ENAM Metadata Catalogue).

Task 5.3: Integration of Biological Data (M1-M48)

Task 5.3: Integration of Biological Data (M5-M68)

5.3.2.1 Defining specifications for ENAM Metadata Catalogue system.

A dedicated ENAM Metadata Catalogue system will be formalized in charge for defining the specifications and defining the ENAM Metadata Catalogue system, specifically:
- A list of standard and/or catalogues for data exchange (e.g., ENAM Metadata Catalogue).
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- A list of standard and/or catalogues for data exchange (e.g., ENAM Metadata Catalogue).

Task 5.4 Platform registration and metadata management system (M5-M68)

5.4.1.1 Defining specifications for ENAM Metadata Catalogue system.

A dedicated ENAM Metadata Catalogue system will be formalized in charge for defining the specifications and defining the ENAM Metadata Catalogue system, specifically:
- A list of standard and/or catalogues for data exchange (e.g., ENAM Metadata Catalogue).
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- A list of standard and/or catalogues for data exchange (e.g., ENAM Metadata Catalogue).

5.4.1.2 Defining specifications for ENAM Metadata Catalogue system.

A dedicated ENAM Metadata Catalogue system will be formalized in charge for defining the specifications and defining the ENAM Metadata Catalogue system, specifically:
- A list of standard and/or catalogues for data exchange (e.g., ENAM Metadata Catalogue).
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5.4.1.3 Defining specifications for ENAM Metadata Catalogue system.

A dedicated ENAM Metadata Catalogue system will be formalized in charge for defining the specifications and defining the ENAM Metadata Catalogue system, specifically:
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5.4.1.4 Defining specifications for ENAM Metadata Catalogue system.

A dedicated ENAM Metadata Catalogue system will be formalized in charge for defining the specifications and defining the ENAM Metadata Catalogue system, specifically:
- A list of standard and/or catalogues for data exchange (e.g., ENAM Metadata Catalogue).
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- A list of standard and/or catalogues for data exchange (e.g., ENAM Metadata Catalogue).
**Task 5.6 Definition of Quality Control procedures for MF Radar data**

**Main activities:**
- Defining indicator
- Validation

**Deliverables:**
- 2018: Final report of the workshop on quality control procedures for MF Radar data
- 2019: Final report of the workshop on validation of MF Radar data

**Partners involved:**
- SODIC, CMAR, ACMA

**Interactions with other WPs:**
- WPS 4, WPS 5 and WPS 6

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**Task 5.7 Scientific calibration procedures on glider data collection**

**Main activities:**
- This task involves the development of scientific calibration procedures for glider data collection.

**Deliverables:**
- 2018: Scientific Calibration Report for glider data collection
- 2019: Scientific Calibration Report for glider data collection

**Partners involved:**
- SODIC, CMAR, ACMA

**Interactions with other WPs:**
- WPS 4, WPS 5 and WPS 6

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**WP5: Data management**

**Monitoring the WP implementation progress:**
- Four dedicated WP meetings have been scheduled (M6, M15, M33, M40) to report on the implementation progress of the DoW.
- A JERICO-NEXT Data Management Committee has been established (HCMR, IFREMER, UCL, SODIC) for better coordination of the activities and more efficient communication with the relevant WPs of the project.

**Summary of activities (WP in numbers):**
- 16 deliverables
- 4 Dedicated WP progress meetings besides the scheduled project’s GAS
- 3 meetings of the Data Management Committee
WPS: Data management

Possible Risks, Gaps and Suggestions

- The implementation timelines of WP4 and WP5 should be further adjusted in order the data flow within the project to be more efficient.
- For a part of the JERICO NEXT data (novel biological data, HF Radar data) the standards regarding the dissemination procedures in European infrastructures are not yet available and will be probably proposed through the project's activities.
- The operational interfaces for the data dissemination will be established with EMODnet and Copernicus.
- SD network will be used for delayed mode/archiving purposes.
7) WP6 – Virtual access (D.Mills - CEFAS)

David Mills presented the work to be undergone within WP6, dealing with virtual access.

The main objective of WP6 is to provide free of charge access to data and information from partner services. By doing so, it will increase the use of virtual access services and improve existing services.

Only virtual services widely used by the community will be supported, therefore the services shall be periodically assessed by an external board. User identification may still be necessary as part of VA when this is subject to specific requirements such as registration, authentication and/or authorization of users (e.g. for access to sensitive data).

A few gaps and risks were presented by David Mills during his presentation. They are summarized below:

- Lack of robust metrics
- Unit of measure for uptake
- Multiple points of access for VA service
- Increase traffic causes service failure
- Lack of user support reduces uptake
- Loss of VA service during the project lifetime, for which partners will be informed as soon as it happens
- Confusing array of VA services, which can be avoid through a clear cataloguing and signposting on website

Following his presentation, a lot of questions were raised regarding the virtual access requirements by the EC. The main points are listed below and a list of questions has been sent to the project officer to answer these issues.

1) We need to clarify if we need an internal or external board, since we don’t have any information yet. We need to know if this will be assigned by the European Commission or the consortium.

2) The work package leader and co-leader will have to propose a management scheme and ask to access providers to send their suggestions and inputs.

3) What metrics should we use? The question has to be asked to the commission in order to know if the metrics are those provided by the commission or if we have to propose them.

Slides presented for WP6
Jerico-Next – Kick-Off meeting - Mallorca

WP6: Virtual Access

David Mills CEFAS

Kate Collingridge CEFAS 29th September - 1st October 2015

Virtual Access “access to resources needed for research through communication networks without selecting or even identifying the researchers to whom access to resources is provided. Examples of virtual access activities are databases available via internet, or data deposition services. Only virtual services widely used by the community will be supported, therefore the services shall be periodically assessed by an external board”. No need for a competitive selection of users and no need to set up a selection panel. No need to identify users either. However, user identification may still be necessary as part of VA when this is subject to specific requirements such as registration, authentication and/or authorisation of users (e.g. for access to sensitive data). Clearly there is no need for users to visit the infrastructure to get access and no need to define a unit of access. Access provider will need to publicise widely the access offered and set up an external board to periodically assess the services offered, as only virtual services widely used by the community of European researchers will be supported. Assessment report provided to the EC together with statistics on the access offered during the project, e.g. quantity, geographical distribution of users and, when possible, information/statistics on scientific outcomes acknowledging the use of the infrastructure (publications, patents, etc.).

Main objectives of the WP & List of partners

• Provide free of charge access to data and information from partner services
• Increase use of Virtual Access services.
• Improve existing services Partners: CEFAS, Ifremer VA Services: NIVA, HZG, FMI, SMHI, SKYE, CNR-ISMAR, HCMR, SOCEB, CNRS, IO-BAS, AZTI, IH, Ifremer, Cefas

Jerico-Next – Kick-Off meeting - Mallorca WP6: Virtual Access

Presentation of the tasks and interfaces with other WPs WP6 is linked to and managed by WP8 under task 8.9, which will:

• Promote use of services provided by the infrastructures through publicity working with T8.2 and T8.3
• Agree metadata format for describing VA
• Agree approach to publishing availability of VA
• Develop methods for periodic assessment of the services and define access statistics
• Set up a template for assessment that collects basic statistical information including: number of annual visits (e.g. to a website), origin of visit (e.g. national, international).
• Provide the international review panel with assessment of services.
• Report the results of the periodic assessments to the EC.
• WP8 (T8.5) Summer School – Virtual Environmental Coastal Observatory
• WP5 Virtual Services

Jerico
Deliverables and milestones (ref DOA) Deliverables: Intermediate report and final report

**D8.12:** Template for reporting of periodic assessments of Virtual Access (M8)

**D8.13:** Report of periodic assessment of Virtual Access to the international review panel (M24)

**D8.14:** Final report on Virtual Access (M47)

**Milestones:**

- Develop metrics for periodic assessments of VA (M6)
- Compile output from assessments and other relevant information for periodic assessment (M10,M20)
- Compile output from assessments and other relevant information for final report (M30,M42)

**Metrics for assessment (from EC):**

- Assessment report provided to the EC
- Plus statistics on the access offered during the project, e.g.,
  - Quantity,
  - Geographical distribution of users
  - When possible, information/statistics on
- Scientific outcomes acknowledging the use of the infrastructure (publications, DOI, patents, etc.)

**Metrics — Workshop Discussion:**

- What constitutes uptake
  - Click and: view (e.g. map), download data (Level 1?), download information/software (Level 2?)
  - How to track uptake of VA services
  - Many routes to data, label data (all or part),
  - Track through ROOS's?
- Recognised problem in the community
- Encourage user to report and evaluate uptake
- Approach
  - Keep it simple
- Seek feedback from EC/evaluators (guidance unclear)
List of VA services on offer

- Google doc list

Poseidon

Additional requested information

- Registration requirements if any
- Type of users
- Number of users to date
- Status of service – e.g. operational, pre-operational
- Spatial domain of service if appropriate
- Planned enhancements and future developments during life
- Support for users (e.g. help desk, help files, other)
- Recommendations on how to measure uptake of your VA
- Recommendations on how to increase uptake of your VA
- Further comment on strategies to promote Jerico-NEXT VA services
Main intermediate actions for the first 18 months to reach Milestones and associated agenda (including meetings, workshops)

* Create Catalogue of services
* Build page on Jerico website
* User authentication or method of tracking website traffic to data portals agreed and implemented
* Links to all services on the Jerico webpage implemented

<table>
<thead>
<tr>
<th>RISK</th>
<th>MITIGATION</th>
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<tr>
<td>Lack of robust metrics</td>
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<tr>
<td>Unit of measure for uptake</td>
<td>Validation of approach by EC / International panel</td>
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<tr>
<td>Multiple points of access for VA Service</td>
<td>Labelling data</td>
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<td>Increase traffic causes service failure</td>
<td>Responsibility of partner to manage</td>
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<td>Lack of user support reduces uptake</td>
<td>Partner to ensure appropriate support</td>
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<td>Loss of VA service during J-Next</td>
<td>Early warning from partner</td>
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<tr>
<td>Confusing array of VA services</td>
<td>Clear cataloguing and signposting on website</td>
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Summary of VA Services

• Final list of VA services from the proposal
  • Julien Mader BHFR
  • Annalisa Griffa, Marcello Magaldi LISO
  • Mousseau EDL
  • Antoine Gremaud: SPI-S
  • Joaquin Tintore: SOCIB
  • Lauri Laakso Utö Atmospheric and Marine Research Station
  • Lperiv Poseidon
  • Willi Peterson COSYNA
  • João Vitorino MONICAN
  • Palazov MONOS
  • Kai Sorensen NorFerry
  • Kai Sorensen NIVA Research Station
  • Bengt Karlson SMHI MOS
  • Jukka Seppala Algaline
  • David Mills EMCO - Jerico Datatool
  • Guillaume Charria Eulerian observatory network data service
Stefania Sparnocchia introduced the work to be done by WP7 partners and the transnational access in JERICO-Next.

The objective of this work package is to provide coordinated “free of charge” transnational access to researcher or research teams (“users”) from academy and industry to original coastal infrastructures.

13 partners will take part in the work of WP7 and 35 installations/infrastructures will be proposed (30 observing systems and 5 supporting facilities and specialized equipment).

Stefania Sparnocchia presented the main tasks of her work package, which are listed below:

- To develop procedures for transnational access provision (starting from JERICO), including establishing TNA panels and teams (WP8).
- To prepare 3 open calls and publish them in the website (WP7&WP8). A wide promotion of the access opportunity will be done through the web, mailing lists and through other public access media.
- To manage the evaluation of the submitted proposals and publish results in the website (WP8). The Selection Panel will evaluate submitted proposals and select those for funding on the basis of scientific excellence, innovation and impacts for the research community.
- To support users and facilities operators with access implementation, reporting and dissemination and publish results in the website (WP7&WP8)

Stefania Sparnocchia presented some new elements regarding the eligibility of user groups. As seen in the FP7 programme, the user group leader and the majority of the users must work in a country other than the country(ies) where the installation is located.

With the H2020 programme, access for user groups with a majority of users not working in an EU or associated country is limited to 20% of the total amount of units of access provided under the grant.

Moreover, only user groups that will disseminate the results they have generated under the action may benefit from the access, unless the users are working for SMEs. This has to be taken into account by candidates and potential users.

To conclude, the main risks which were highlighted dealt with lack of engagement by end-user groups (which can be avoided thanks to a good and efficient communication and outreach plan), withdrawal/unavailability of an infrastructure in due time and delay in feasibility assessment by a facility operator.

Slides presented for WP7
WP7: Trans National Access to Coastal Observatories

Stefania Sparnocchia I CNR ISMAR

Main objectives of the WP & list of partners

OBJECTIVE: to provide coordinated 'free of charge' trans-national access to researchers or research teams (users) from academia and industry to original coastal infrastructures.

13 PARTNERS: CNR ISMAR (coor.), CIVIT, FAM, HCMR, HEO, IFREMER, IM4, IO-BOS, NIVA, SMARTMAR, SO Garc., SIME, UPC (TPS retired)

35 INSTALLATIONS/INFRASTRUCTURES: 80 in Chapter 1 (Observing systems) + 5 in Chapter 2 (Supporting facilities and specialised equipment)

Chapter 1: Observing Systems

- FBV
- Oceanography
- Bathymetry + Navigational 

Chapter 2: Ancillary Systems

- 2 Calibration Laboratories
- 2 Experimental stations
- 1 Specialised stations

Tasks and interfaces with other WPs

Interfaces with other WPs: The implementation and dissemination of WP7 are done in WP8 Tasks 8.8 and 8.6

Main tasks:
- To develop procedures for trans-national access provision aiming at training, enhancing and establishing TNA panels and teams (WP8)
- To prepare open calls and publish them in the website (WP7/8/8.9)
- To manage the evaluation of the submitted proposals and publish results in the website (WP7/8/8.9)
- To support users and facilities operators with access implementation, reporting and dissemination and publish results in the website (WP7/8/8.9)

THA panels/teams (named at the kick-off meeting)

THA Office

- Peter Nelles (NIO), Director and representative of NIO
- Ivan Molinari (IMI), Director and representative of IMI
- Maria Barcia, University of Washington, Member of WP8 (Resp)
- Claudia Barcia, University of Washington, Member of WP8 (Resp)

THA management board

- Stefania Sparnocchia (CNR ISMAR), Chair
- Luigi R. Giordano (IMI), Chair
- Anna Maria Pastore (NIO), Chair
- Marika Mileti (CNR ISMAR), Chair
- Valentina Magnani (CNR ISMAR), Chair
- Marina Mancini (CNR ISMAR), Chair

JERICO NEXT WP8 office

- Michela Caneva, CNR ISMAR, Chair, European Network; email: micaela.caneva@cnr.it
- Alessandro Neri, University of Bologna, Member, European Network
- Valentina Magnani, CNA CNR ISMAR, Member, European Network
- Massimo G. Testi, University of Bologna, Member, European Network
- Stefania Sparnocchia, CNR ISMAR, Member, European Network.
TNA - Concepts and Definitions 1/3

Access to an infrastructure is provided to an user/user group via an instrument or to collect data.

User access (UIA): daily, weekly, monthly.

Access period: to a time the user actually uses an infrastructure/facility.

Mobility of access (MoA):
- MoA-I: Remote
- MoA-II: In person/hard on
- MoA-III: Partially remote

Support offered to users:
- By the facility: remote scientists, technical, and logistics support during measurement campaigns, including any special training.
- By the TNO: A contribution to travel and subsistence costs for selected users and shipping of their equipment.

TNA - Concepts and Definitions 2/3

Outreach to new users:
- Outreach tools: website, calls to compile new users.
- Wide promotion of the access opportunities through the web, mailing lists, and through other public access media.

Review and selection:
- Preliminary screening by each relevant partner for technical feasibility. Results will be communicated to the Selection Board (SB).
- The SB will evaluate submitted proposals and select those for funding based on the basis of scientific excellence, innovation, and impact for the research community.
- Priority to new access and open coming from countries where such infrastructure is not available.

TNA - Concepts and Definitions 3/3

ACCO costs:
- TA-ACC: costs declared by beneficiaries on the basis of costs calculated on the basis of their Financial data.
- TA-C: costs incurred for providing access to the user groups related for support under the action.
- TA-C: costs incurred for providing access to the user groups related for support under the action.
- TA-CB: costs declared by beneficiaries on the basis of a combination of the above.

Mobility used by each partner in the TNA:
- When several user groups share the installation, the unit cost will be shared according to the TNA and TA-ACB.

[Note: Decision CDR1682/2020]

WP7 efforts are related to actual costs for providing access (TA-AC or TA-CB)

<table>
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<tr>
<th>Work package number</th>
<th>Payment module</th>
<th>Lead beneficiary</th>
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<th>TA-CB</th>
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</tbody>
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WP7 - Transnational Access

The unit cost will be shared according to the TNA procedure.

TNA - Eligibility of user groups

- The user group leader and the majority of the users must work in a country other than the country where the installation is located.
- Access for user groups with a majority of users not working in a EU or associated country is limited to 25% of the total amount of units of access provided under this grant.
- Only user groups that will disseminate the results they have generated under the action may benefit from the access, unless the users are working for SMEs (NUP-1).

[Note: Article 16 of the Grant Agreement]

Scheme of TNA implementation

WHO

All partners

Preparing the call and material for the website

CALL

- Launching open Calls for proposals
- Promotion III

EVA

- Feasibility assessment
- Evaluation of the proposals
- Approval of funded projects

EXP

- Proposals implementation

Users

Reporting results and outcomes (open reviews papers and patents monitored by the EC)

[Note: Transnational Access]
Deliverables and Milestones (1st Q1 2015 - WP7 & WP8)

<table>
<thead>
<tr>
<th>Date</th>
<th>Deliverable / Milestone</th>
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<tbody>
<tr>
<td>MAR</td>
<td>April 2015 - WP7 Technical and scientific advancements of Tables program</td>
</tr>
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<td>MAR</td>
<td>May 2015 - WP7 Draft of Table 1 draft (WP7 tables)</td>
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<td>July 2015 - WP7 Draft of Table 3 draft (WP7 tables)</td>
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<td>August 2015 - WP7 Final report to WP7 program</td>
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<tr>
<td>JUNE</td>
<td>June 2016 - WP7 Final report to WP7 program</td>
</tr>
<tr>
<td>JUNE</td>
<td>July 2016 - WP7 Final report to WP7 program</td>
</tr>
<tr>
<td>JUNE</td>
<td>August 2016 - WP7 Final report to WP7 program</td>
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</tbody>
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18 months agenda (WP7 - WP8)

<table>
<thead>
<tr>
<th>Date</th>
<th>Action</th>
<th>WP7</th>
<th>WP8</th>
</tr>
</thead>
<tbody>
<tr>
<td>28/01/2015</td>
<td>First TNA operations meeting. General organisation and regulations</td>
<td>TNA</td>
<td>TNA</td>
</tr>
<tr>
<td>01/02/2015</td>
<td>Establishment of TNA management scheme and TNA structures</td>
<td>TNA</td>
<td>TNA</td>
</tr>
<tr>
<td>15/03/2015</td>
<td>Drafting of TNA and procedures for WP7</td>
<td>TNA &amp; TNA partners</td>
<td>TNA &amp; TNA partners</td>
</tr>
<tr>
<td>01/04/2015</td>
<td>Drafting of 1st description of facilities</td>
<td>TNA &amp; TNA partners</td>
<td>TNA &amp; TNA partners</td>
</tr>
<tr>
<td>01/05/2015</td>
<td>First TNA Cell published on website</td>
<td>TNA &amp; TNA partners</td>
<td>TNA &amp; TNA partners</td>
</tr>
<tr>
<td>01/06/2015</td>
<td>First TNA Cell published on website</td>
<td>TNA &amp; TNA partners</td>
<td>TNA &amp; TNA partners</td>
</tr>
<tr>
<td>01/07/2015</td>
<td>Release of application for the TNA cell</td>
<td>TNA &amp; TNA partners</td>
<td>TNA &amp; TNA partners</td>
</tr>
<tr>
<td>01/08/2015</td>
<td>User’s manual for TNA management scheme</td>
<td>TNA &amp; TNA partners</td>
<td>TNA &amp; TNA partners</td>
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<tr>
<td>01/09/2015</td>
<td>Final report to WP7 TNA Cell</td>
<td>TNA &amp; TNA partners</td>
<td>TNA &amp; TNA partners</td>
</tr>
<tr>
<td>01/10/2015</td>
<td>Final report to WP8 TNA Cell</td>
<td>TNA &amp; TNA partners</td>
<td>TNA &amp; TNA partners</td>
</tr>
</tbody>
</table>

The TNA experience in JERIC0 1

Total number of facilities: 29

- Number of validated proposals per facility
- N. of facilities with no requests: 7

JERIC0 NEXT vs JERIC0 2

<table>
<thead>
<tr>
<th>N. of facilities</th>
<th>Access (days)</th>
<th>TNA budget (€)</th>
<th>Users Budget (excluding of ex/ed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>JERIC0 NEXT</td>
<td>10</td>
<td>471,820 €</td>
<td>80,000 €</td>
</tr>
<tr>
<td>JERIC0</td>
<td>20</td>
<td>1921</td>
<td>474,490 €</td>
</tr>
<tr>
<td>JERIC0</td>
<td>30</td>
<td>2070</td>
<td>1,295,356 €</td>
</tr>
<tr>
<td>JERIC0 NEXT</td>
<td>30</td>
<td>4293</td>
<td>1,295,356 €</td>
</tr>
</tbody>
</table>

Risks and gaps - Recommendations to partners

- Lack of engagement by users
  - Mitigation measure: Improved publicity of TNA
  - Active engagement at meetings and conferences

- Lack of engagement by users
  - Mitigation measure: Improved communication with users

- Lack of engagement by users
  - Mitigation measure: Improved communication with users

- Lack of engagement by users
  - Mitigation measure: Improved communication with users

JERIC0 NEXT TNA Observatories and facilities

<table>
<thead>
<tr>
<th>TNA Observatory</th>
<th>Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>TNA Observatory 1</td>
<td>20 facilities</td>
</tr>
<tr>
<td>TNA Observatory 2</td>
<td>14 facilities</td>
</tr>
<tr>
<td>TNA Observatory 3</td>
<td>13 facilities</td>
</tr>
<tr>
<td>TNA Observatory 4</td>
<td>36 facilities</td>
</tr>
</tbody>
</table>

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9) WP8 – Outreach, communication and engagement (S.Keeble –BL)

Simon Keeble presented the work to be undergone by WP8 and its scope of actions.

The WP aim is to increase understanding of the importance of the project and maximize the impact of JERICO-NEXT research for targeted end-users across policy, industry, science and educational sectors and the wider public and to promote uptake of JERICO-NEXT Services for Trans National and Virtual Access.

To do so, an end-user panel will be created, for engagement and fostering 2-way communication with public, policy, research, education and industry user groups. This will be a good way to inform, engage with and identify requirements of the key user groups.

Moreover, a good outreach plan is the key to ensure best possible uptake of new knowledge and evidence. By doing so, we shall maximize JERICO NEXT international impact and promote the potential of Coastal Observatories to support ocean science technological development through Transnational Access.

The JERICO-Next website will also play a role in these objectives: a great effort will be made to design, launch, maintain and host the JERICO-NEXT website with integrated communication portals for disseminating relevant data, information and project products and services.

Simon Keeble also introduced the end-user panel role to the participants: it will be composed of 5 to 10 representatives + ‘connections’ to the project to be involved on a voluntary basis. A chairman needs to be appointed and the partners will be asked to send recommendations or suggestions.

A new element has been included in WP8 workplan, which is the use of online courses to promote the project and its results. The idea is to deliver university level course materials for online universities (Oceanography course). We will have to find a method for presenting materials (website and other) and create a plan of a number of lectures.

To conclude his presentation, Simon Keeble explained that Outreach and engagement are only possible “if we have something to say….and someone to say it to”. Please be proactive in your activities to include outputs for WP8.

Slides presented for WP8
Main objectives

The WP aim is to increase understanding of the importance and maximise the impact of JERICONEXT research for targeted end-users across policy, industry, science and educational sectors and the wider public and to promote uptake of JERICOC-NEXT Services for Trans National and Virtual Access.

12 Partners

BLIT (Lead)  Cefas (Co-lead)  CNR-ISMAR  Deltanares  ETT  HCMR  MI  SRL  SOCIB  SYKE  UOM

Task 8.1: Create a channel for 2-way communication with user groups (MI2-M12)

Approach:

- Create a panel of end-user representatives for each societal benefit area. Panel members selected through an expression of interest call.
- Establish forums of reference for the end-user panel that foster 2-way communication.
- Engage with the panel members individually and collectively to leverage understanding of requirements and seek feedback on key communication strategies to promote uptake of JERICOC-NEXT products and services.
- Build on feedback around specifications for key communication strategies.
- Hold annual meetings of the panel supplemented with ad hoc communication between meetings.

Task 8.1: Create a channel for 2-way communication with user groups (MI1-M12)

Approach:

- Create a panel of end-user representatives for each societal benefit area. Panel members selected through an expression of interest call.
- Establish forums of reference for the end-user panel that foster 2-way communication.
- Engage with the panel members individually and collectively to leverage understanding of requirements and seek feedback on key communication strategies to promote uptake of JERICOC-NEXT products and services.
- Build on feedback around specifications for key communication strategies.
- Hold annual meetings of the panel supplemented with ad hoc communication between meetings.

WP8: Outreach, Communication & Engagement

Simon Reeble | Blue Lobster
David Mills | Cefas

To create an end-user panel for engagement and facilitate 2-way communication with public, policy, research, education and industry user groups.

- To inform, engage with and identify requirements of the key user groups
- To ensure broad uptake of new knowledge and evidence
- To enhance European capacity building in operational marine sciences through training
- To maximise JERICOC-NEXT international impact
- To promote the potential of coastal observatories to support ocean science technological development through transnational access
- To design, launch, maintain and expand the JERICOC-NEXT website with integrated communication portals for disseminating relevant data, information and project products and services.

WP8: Outreach, Communication & Engagement

Simon Reeble | Blue Lobster
David Mills | Cefas

To create an end-user panel for engagement and facilitate 2-way communication with public, policy, research, education and industry user groups.

- To inform, engage with and identify requirements of the key user groups
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- To enhance European capacity building in operational marine sciences through training
- To maximise JERICOC-NEXT international impact
- To promote the potential of coastal observatories to support ocean science technological development through transnational access
- To design, launch, maintain and expand the JERICOC-NEXT website with integrated communication portals for disseminating relevant data, information and project products and services.
**Task 8.2: Inform and engage stakeholders and public user groups (M12-M14)**

**Purpose:** To communicate targeted knowledge and engage society.

**Approach:**
- Provide current and accurate information from JERICO-NEST project and partner products and information for the website targeting society.
- To collaborate with the end-user panel (T8.1) and produce up to 3 compelling visualizations/products that inform and engage specific topics of priority to society.
- Identify with the end-user panel, effective dissemination mechanisms (e.g., Project Website, Links with National Aquariums, fact sheets, YouTube, Social Media) and implement.
- Communicate through links with international newspapers in French and English using the Alphapage platform to reach European journalists. The articles will be reported in the dissemination plan.
- Develop the necessary educational materials to update Follow-the-Glider web content (SC06).

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**Task 8.3: Inform and engage research and policy end-users (M1-M14)**

**Purpose:** To communicate new scientific knowledge derived from JERICO-NEST to various societal bodies in policy, research and operational environments (industry sectors) and to promote uptake of Transnational and Virtual Access Services.

**Approach:**
- Provide current and accurate information from JERICO-NEST partner websites, data and projects for the website for target professional end-users.
- Collaborate with the end-user panel (T8.1) to identify a number of JERICO-NEST unique outputs, and produce 3-5 compelling visualizations that inform and engage professional end-users.
- Work with the panel (T8.1) to identify effective dissemination mechanisms (e.g., Project Website, Links with Professional user groups, Science Exhibitions and Events, Social Media).
- Work with WP4 and 7 through T8.6 & 4 to raise awareness of Virtual Access and NPA facilities and promote business society, educational and professional engagement.
Task 8.4: Inform and engage industry (ML-M48)

**Partners:**
- 3L Consulting (Lead)
- MS, Coface

**Purpose:** To establish lines and credibility with industry.

**Approach:**
- Utilize the results of a dedicated focus group for technical challenges, industry members of the user groups, and members of the JERICO-M48 to share key drivers.
- Improve and develop risk assessment and modeling techniques for the next regulatory standards.
- Support a knowledge transfer network (KTN) for data sharing and environmental monitoring.
- Facilitate communication between industry and regulatory agencies.
- Provide training and awareness sessions on environmental monitoring techniques.
- Create a "knowledge brochure" for industry and regulatory agencies.
- Develop a "knowledge hub" with a KTN network for data sharing and environmental monitoring.

Task 8.5: Enhance European human capacity building in operational marine sciences (Educating with Education - M3-M48)

**Partners:**
- UCM (Lead)
- Char, Delft

**Purpose:** To increase European human capacity building in the area of operational marine sciences.

**Approach:**
- Enhance education and training through a series of workshops and seminars.
- Develop and implement a comprehensive training program.
- Encourage collaboration between universities and industry partners.
- Facilitate knowledge exchange and sharing through a comprehensive training program.
- Provide ongoing support for other E-M48 partners to participate in the workshops.

Task 8.6: Sustain and develop JERICO-HUB web presence for dissemination of products and knowledge (M1-M48)

**Partners:**
- JRC/Isotop, AI4ME4, and EML to contribute content.

**Purpose:** To update, sustain, and further develop the JERICO-HUB web site as an information hub and data portal (IPER) for outreach and dissemination of products, knowledge, and data to key stakeholders and user groups.

**Approach:**
- Review the current JERICO-HUB web site and its accessibility.
- Update the website to meet current standards and specifications.
- Enhance the website to include advanced search features and user-friendly navigation.
- Develop a social media campaign to support the dissemination of products and knowledge.
- Maintain, host, and update the website and social media with current data and information.
Task 6.7: Implementing Transnational Access to Coastal Observatories (M1-M48)

**Approach**
- Align with appropriate provisions of OAFM.
- Develop and implement a plan to define, in collaboration with stakeholders, the full range of services to be provided.

**Purpose**
- To promote the use of the infrastructure through standardization and harmonization of services.
- Develop and implement a plan to define, in collaboration with stakeholders, the full range of services to be provided.

**Partners**
- CNR (Lead), INSA (France), SOGC, SPPRT

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Task 6.8: Implementing Transnational Access to Coastal Observatories (M1-M48)

**Approach**
- Align with appropriate provisions of OAFM.
- Develop and implement a plan to define, in collaboration with stakeholders, the full range of services to be provided.

**Purpose**
- To promote the use of the infrastructure through standardization and harmonization of services.
- Develop and implement a plan to define, in collaboration with stakeholders, the full range of services to be provided.

**Partners**
- CNR (Lead), INSA (France), SOGC, SPPRT

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Task 6.9: Coordinating WPs Virtual Access (M1-M48)

**Approach**
- Promote use of services provided by the infrastructure through standardization and harmonization of services.
- Develop and implement a plan to define, in collaboration with stakeholders, the full range of services to be provided.

**Purpose**
- To promote the use of the infrastructure through standardization and harmonization of services.
- Develop and implement a plan to define, in collaboration with stakeholders, the full range of services to be provided.

**Partners**
- CNR (Lead), INSA (France), SOGC, SPPRT

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Task 6.10: Coordinating WPs Virtual Access (M1-M48)

**Approach**
- Promote use of services provided by the infrastructure through standardization and harmonization of services.
- Develop and implement a plan to define, in collaboration with stakeholders, the full range of services to be provided.

**Purpose**
- To promote the use of the infrastructure through standardization and harmonization of services.
- Develop and implement a plan to define, in collaboration with stakeholders, the full range of services to be provided.
**Deliverables**

- Task 6.4: Deliverables of the core project (FRA)
- Task 6.5: Final report on the three sets of tools (G/TD and TD vs. OpenAccess) (FRA)
- Task 6.6: Final report on the three sets of tools (G/TD and TD vs. OpenAccess) (FRA)
- Task 6.7: Final report on the three sets of tools (G/TD and TD vs. OpenAccess) (FRA)
- Task 6.8: Final report on the three sets of tools (G/TD and TD vs. OpenAccess) (FRA)
- Task 6.9: Final report on the three sets of tools (G/TD and TD vs. OpenAccess) (FRA)
- Task 6.10: Final report on the three sets of tools (G/TD and TD vs. OpenAccess) (FRA)
- Task 6.11: Final report on the three sets of tools (G/TD and TD vs. OpenAccess) (FRA)
- Task 6.12: Final report on the three sets of tools (G/TD and TD vs. OpenAccess) (FRA)
- Task 6.13: Final report on the three sets of tools (G/TD and TD vs. OpenAccess) (FRA)

**Actions for first 18 months**

- M1: Task 8.1: 1st TNA operators meeting for general organisation (TNA) (CN/IAA)
- M2: Task 8.2: 2nd TNA operators meeting for general organisation (TNA) (CN/IAA)
- M3: Task 8.3: 3rd TNA operators meeting for general organisation (TNA) (CN/IAA)
- M4: Task 8.4: 4th TNA operators meeting for general organisation (TNA) (CN/IAA)
- M5: Task 8.5: 5th TNA operators meeting for general organisation (TNA) (CN/IAA)
- M6: Task 8.6: 6th TNA operators meeting for general organisation (TNA) (CN/IAA)
- M7: Task 8.7: 7th TNA operators meeting for general organisation (TNA) (CN/IAA)
- M8: Task 8.8: 8th TNA operators meeting for general organisation (TNA) (CN/IAA)
- M9: Task 8.9: 9th TNA operators meeting for general organisation (TNA) (CN/IAA)
- M10: Task 8.10: 10th TNA operators meeting for general organisation (TNA) (CN/IAA)
- M11: Task 8.11: 11th TNA operators meeting for general organisation (TNA) (CN/IAA)
- M12: Task 8.12: 12th TNA operators meeting for general organisation (TNA) (CN/IAA)
- M13: Task 8.13: 13th TNA operators meeting for general organisation (TNA) (CN/IAA)
- M14: Task 8.14: 14th TNA operators meeting for general organisation (TNA) (CN/IAA)
- M15: Task 8.15: 15th TNA operators meeting for general organisation (TNA) (CN/IAA)
- M16: Task 8.16: 16th TNA operators meeting for general organisation (TNA) (CN/IAA)
- M17: Task 8.17: 17th TNA operators meeting for general organisation (TNA) (CN/IAA)
- M18: Task 8.18: 18th TNA operators meeting for general organisation (TNA) (CN/IAA)

* Needed around month 6 to work with data portal and ahead of TNA First Call

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Outreach and engagement is only possible if we have something to say...and someone to say it to.

Please be proactive in your activities to include outputs for WP1.
IV] STAC recommendations and conclusions of the meeting

1) Scientific and technological advisory committee recommendations

Peter Hermann on behalf the representatives of the STAC

“A lot experience gained in the first phase, we were impressed”.

The strongest points are
- people: Vigorous communities with high expertise. The most important value of this project is this high level community.
- technology: The thrill of technology and the big data challenge are the main strengths
- ambition: the project is very ambitious, may be too in so short time (4 years), in terms of the variety of platforms, the difficulties to establish a strong link between disciplines (physics vs biology).

The Strategy: a) to sustain, relevant, European-scale coastal observatory, b) to open system to science and users, c) to have a leading role in operational use of up-to-date technology,…

The challenges are to:
Define and find optimal niche in complex European context, especially at long-term scale
Analyse the complexity of the coastal seascape as far as in the vertical structure, from the surface to the benthos (sediments, water exchanges, …
To scale the discrepancies between ecosystem components i.e. physics vs phytoplankton as one example.
The main challenge to reach, as other research communities, is to success in the virtuous loop:

DATA  ───────> KNOWLEDGE  ───────> USE

STAC advices:

We should:
a) Give a proper place to technology development but avoid overflow from WP3 to WP4 and emphasize the important work of WP2/WP5: data quality is the ultimate yardstick!
b) Make an effort to well identify the user communities, which much important for VA/TNACreate ‘Jerico extended family’ using VA / TNA strategically for this
c) Focus JRAPs on ‘useful knowledge production’ for a better and real integration between disciplines (physics to biology) and extrapolation from the shelf to the coastal seascape (links with models and upscaling problems)
Modeling, Satellites are to be used because extrapolation from in situ coastal data is difficult in the coastal area.
d) Formalise products at # levels
e) use open source software
f) Contribute to the definition of essencial ocean variables (EOV) adapted to the coastal systems.
g) Use best practices efforts to consolidate our experience
h) Strengthen the links with other projects as Fix03, EMSO.

Slides presented by Peter Hermann
First impressions of the STAC

**STRONG POINTS**
- The people!
- Innovative, ambitious, highly skilled community
- The technology!
  - Field of discovery
  - Robotics
  - Big data/IA
- The ambition!
  - Integrate elements: disciplines, platforms, sensors
- Operational node
- Big data/IA
- QL at multiple levels (instrument, data, products)

**CHALLENGES**
- Define and find optimal niche in complex organizational landscape, especially at long term scale
- Complexity of the mental structure
  - Vertical: instrumentation, sensing, reference/water, exchange, value, impact
  - Horizon: at our core
- Data integration: various and diverse in nature and usage
- Scale dependencies between ecosystem components
  - E.g. sensors - instrumentation - backend - use - ad - no

**ADVICE**
- Do not get mired in the wires
  - Define proper place in technology ecosystem but avoid overlap from WRI to WRI
- Explain the important work of WRI/WTI: data-quality is the ultimate variable
- Identify the user communities
  - Expect for WTI/WTI
  - Identify target user groups (hardware, technical software, data producers, scientists)
  - Guidelines for outreach
Advises:

- Attract and incorporate external expertise
- Create a strong technical team
- Link to modeling, also beyond physics
- Focus on "essential knowledge production" across disciplines
- Use "Best Practice" efforts as mentor: consolidation of experience, also in other projects
- Data quality: compatible with operational system and demonstrates its usefulness; consider costs and risks before deciding

Advise:

- Use open source software for level stepping
- Contribute to definition of EOVs: Essential Ocean Variables adapted for coastal systems
- Formalize products at different levels
- Link to use data
2) Conclusions and actions after the kick-off meeting

**WP1 (wp1 leaders + CEFAS):**
A1] Organisation of a workshop to check how to report the use of the MSDF descriptors as a basis for analyzing threats. A template document will be drawn and populated by CEFAS and CNRS for testing/validation purpose.
A2] Key partners will attend international conferences to organize strategy meeting with the relevant projects and communities.

**WP2/WP3 (WP2 leaders):**

**WP3 (WP3 leaders):**
A4] Action to contact task leaders by 2 weeks asking them they detailed time line to implement the activities.

**WP3/WP4 (coordination):**
A5] Action to link JERICO-NEXT to ATLANTOS for the OSE/OSSE activities for cross checking and cooperation.

**WP4 (WP4 leaders):**
A6] It is necessary to better explain sight and view between the 6 JRAPs and the cross cutting between them. The timetables has to be adjusted to fit the objectives and goals.
A7] We need to work again to adjust the JRAPs to see if there is an opportunity to have common test sites in the different JRAPs, in order to outcome common actions and/or cross cuttings.
A8] We need to organise a meeting with the MSFD representatives and stakeholders, explaining what we are able to do. This could be done through the end-user panel or a meeting/workshop (see A1).

Debriefing with WPs after STAC advices
a) don’t couple too much WP3 and WP4; better show what is linked and what is not linked
We should better explain that an infrastructure support science and this is a reason of coupling some WP3 tasks with WP4: to show the added value of the JERICO-NEXT to support science. JRAPs should not outcome on data only and use technology. They have to produce knowledge.
We need to better show the integration of physical and biology and chemistry,... so we have to better integrate JRAPS.
A9] Find the capacities of adjustments in the JRAPS in order to identify what tasks are necessary to couple and have less impacts of the technological development on the JRAPS
b) Coupling Physics and bio and chemistry
One of the objectives of JERICO-NEXT is to understand the links between physics and biology. It is not really the goals of some JRAPS.
A10] Find the capacities of adjustments in the JRAPS in order to understand, at least in some JRAPs (1, 2, 3, 5), the links between physics and biology.

A11] According to the results of A9] and A10], we need to organize a meeting with the JRAPS leaders.
WP5 (WP5 leaders):
A12] There is a need for adjusting timeline between WP4 & WP5: we need to know what data type and when they are expected to be dispatched to WP5. Meeting with WP4 partners
A13] We have to be clear on our data policy and our promotion of free data access. The specificity of the biological data has to be defined in task 5.2 before M12.

WP6 (WP6 leaders):
A14] We need to clarify if we need an internal or external board. A list of question has to be prepared to be sent to the commission, by the coordinator, regarding the external board.
A15] What metrics should we use? The question has to be asked to the commission, by the coordinator, in order to know if the metrics are those provided by the commission or if we have to propose them.
A16] The work package leader and co-leader will have to propose a management scheme (including metrics) and ask to access providers to send their suggestions and inputs.