

Report after the JERICO-Next kickoff meeting week

Grant Agreement n° 654410
<u>Project Acronym</u>: JERICO-NEXT

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

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<u>Involved Institution</u>: IFREMER

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Document description

REFERENCES

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

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I] Agenda

Agenda: Monday, 28th of September

Time slot	Topic	Lead

Scope: Preparation of the KOM and other side meetings, next steps

Monday, 28 th of September – Steering Commit	tee meeting
Registration of participants	
1) JERICO-Next Contract: news	P. Farcy
2) For Each WP: 15 min x8	WP leaders
Introduction of the related side meetings to be hold	
the days after: WP1&4, WP2 (Tuesday), WP3, 5, 6, 7,	
8 (Wednesday): agenda of the meetings, blocking	
points, 18 month agenda of each WP, organisation	
etc.	
3) Agenda of next meetings and general	I. Puillat
organization	
see the JERICO Calendar month M10: HF radar	
meeting, WP5 meeting, WP3, and SC meeting: Who?	
Where?	
4) next Steering Committee meeting: specific topic?	All
Ice breaker	
	1) JERICO-Next Contract: news 2) For Each WP: 15 min x8 Introduction of the related side meetings to be hold the days after: WP1&4, WP2 (Tuesday), WP3, 5, 6, 7, 8 (Wednesday): agenda of the meetings, blocking points, 18 month agenda of each WP, organisation etc. 3) Agenda of next meetings and general organization see the JERICO Calendar month M10: HF radar meeting, WP5 meeting, WP3, and SC meeting: Who? Where? 4) next Steering Committee meeting: specific topic?

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.

Tuesday, 29 th of September – WP4-Meeting with WP1, 2, 3, 5			
08:00-08:30	Registration (con't)		
08:30-09:00	WP1 & WP4 Introduction Speech, How WP1 and WP4 will work	I. Puillat	
Pollentia Room	together? Links with other WPs.	D. Durand	
08:40-10:00	Session1: Objectives, timeline, constrains and expectations		
Pollentia Room	from WPs to JRAPs:		
	- WP 2 (09:00 – 09:20): Harmonization of technologies and methodologies	R. Nair	
	- WP 3 (09:20 – 09:40): Innovations in Technology and	G. Petihakis	
	Methodology	L. Bardan Park	
	- WP 5 (09:40 – 10:00): Data management	L. Perivoliotis	
10:00-10:30	Coffee break		
10:30-12:30	Session 2: Objectives, timeline, pitfalls and achievements		
Pollentia Room	needed from/to WPs: 40' /JRAP		
	10' JRAP presentation + 10' JRAP scientific strategy and link		
	with other WPs + 10' organisation & time line + 10' discussion		
	- JRAP 1 (10:30-11:10)	B. Karlson	
	- JRAP 2 (11:10-11:50)	A. Grémare	
	- JRAP 3 (11:50-12:30)	L. Nizzetto	
12:30-14:00	Lunch		
14:00-16:00	Session 2 (con't): Objectives, timeline, pitfalls and		
Pollentia Room	achievements needed from/to WPs		
i onemia noom	- JRAP 4 (14:00-14:40)	A. Rubio	
	- JRAP 5 (14:40-15:20)	L. Laakso	
	Coffee Break (15:20-15:40)		
	- JRAP 6 (15:40-16:20)	J. Tintore / B. Mourre	
16:20-16:50	WP4 Discussion and conclusion		
Pollentia Room			
17:00-18:45	Session 3: WP2 dedicated meeting	R. Nair, W. Petersen	
Pollentia Room			
End of first day			

Agenda: Wednesday, 30th of September

Time slot Topic Lead

Wednesday, 30 th of September – Kick-off side meetings				
08:30-09:00 Reception	Registration			
09:00-12:00 Pollentia Room	WP dedicated meetings (9:00-10:00) WP8: Outreach	S. Keeble		
	(10:30-12:30) WP5: Data management	L. Perivoliotis		
10:00-10:30	Coffee break			
09:00-12:00 Romana Room	(9:00-11:30) WP3: Innovations in Technology and Methodology	G. Petihakis		
	(11:30-12:30) WP6/7: Virtual and Transnational Access strategy with WP8	WP 9, 1, 6, 7 & 8 leaders and Advisory committee		
12:30-13:45	Lunch			
13:45-17:20	(13:45-15:00) WP6: Virtual access	D. Mills		
Pollentia Room	(15:20-17:20) WP7: Transnational access	S. Sparnocchia		
15:00-15:20	Coffee break			
13:45-17:30 Romana Room	(13:45-17:30) Meeting with WP leaders, JRAP leaders, Advisory committee & EUROGOOS	WP leaders except 6, 7, 8 JRAPs leaders Advisory committee		
17:45	City tour & social event			
End of second do	y			

Agenda : Thursday, 1st of October

Торіс	Lead

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

II] List of participants

Family name	Name	Institution	Country
Almeida	Sara	IH	Portugal
Artigas	Luis Felipe	CNRS	France
Beaume	Nolwenn	Ifremer	France
Bekiari	Margarita	HCMR	Greece
Blauw	Anouk	Deltares	Netherlands
Boccadoro	Catherine	IRIS	Norway
Burns	Malcolm	UPC	Spain
Cañellas	Tomeu	SOCIB	Spain
Chumbinho	Rogério	SmartBay Ireland	Ireland
Claus	Simon	VLIZ	Belgium
Collingridge	Kate	Cefas	ŬK
Comici	Cinzia	OGS	Italy
del Rio	Joaquin	UPC	Spain
Delauney	Laurent	Ifremer	France
Deneudt	Klaas	VLIZ	Belgium
Durand	Dominique	IRIS	Norway
Farcy	Patrick	Ifremer	France
Fischer	Philipp	AWI	Germany
Fuda	Jean-Luc	CNRS INSU	France
Gauci	Adam	University of Malta	Malta
Gaughan	Paul	MI	Ireland
Garau	Angels	SOCIB	Spain
Gernez	Caroline	Ifremer	France
Gorringe	Patrick	EuroGOOS	Belgium
Grémare	Antoine	CNRS	France
Griffa	Annalisa	CNR ISMAR	Italy
Hausot	Andreas	Fluidion	France
Herman	Peter	NIOZ	Netherlands
Heslop	Emma	SOCIB	Spain
Juza	Melanie	SOCIB	Spain
Kaitala	Seppo	SYKE	Finland
Karlson	Bengt	SMHI	Sweden
Keeble	Simon	Blue Lobster	UK
King	Andrew	NIVA	Norway
Laakso	Lauri	FMI	Finland
Lampitt	Richard	NOC	UK
Lekkas	Anastasios	JPI Oceans	Belgium
Mader	Julien	AZTI	Spain
Manzella	Giuseppe	CNR ISMAR	Italy
Mills	David	Cefas	UK
Mourre	Baptiste	SOCIB	Spain
Nair	Rajesh	OGS	Italy
Nizzetto	Luca	NIVA	Norway
Nolan	Glenn	EuroGOOS	Belgium
Novellino	Antonio	ETT	Italy
Ntoumas	Manolis	HCMR	Greece
O'Neill	Nick	SLR	Ireland
Orfila	Alejandro	IMEDEA	Spain
Pascual	Ananda	IMEDEA	Spain
Perivoliotis	Leonidas	HCMR	Greece

Petersen	Wilhelm	HZG	Germany
Petihakis	George	HCMR	Greece
Petit De La Villéon	Loic	Ifremer	France
Pichereau	Sylvie	Ifremer	France
Puillat	Ingrid	Ifremer	France
Quentin	Céline	CNRS	France
Rijkeboer	Machteld	RWS	Netherlands
Rubio	Anna	AZTI	Spain
Schulz-Stellenfleth	Johannes	HZG	Germany
Seppälä	Jukka	SYKE	Finland
Slabakova	Violeta	IO-BAS	Bulgaria
Sorensen	Kai	NIVA	Norway
Sparnocchia	Stefania	CNR ISMAR	Italy
Stemmann	Lars	CNRS/UPMC	France
Svendsen	Einar	IMR	Norway
Tamminen	Timo	SYKE	Finland
Thijsse	Peter	MARIS	Netherlands
Tintoré	Joaquin	SOCIB	Spain
Torner	Marc	SOCIB	Spain
Vitorino	Joao	IH	Portugal
Vukicevic	Tomislava	CMCC	Italy
Wehde	Henning	IMR	Norway
Willstrand Wranne	Anna	SMHI	Sweden

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 FixO3), 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 Sparnocchia (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 <u>60 days</u> 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

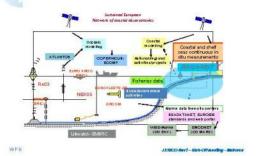


JERICO-NEXT COORDINATION

P.FARCY, S. PICHEREAU / Ifremer



The European context



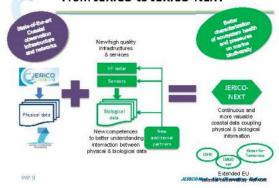
A VISION!

- The JERICO-NEXT community emphasizes that we cannot understand the camplexity of the coastal ocean if we do not understand the coupling between physics, biogeochemistry and biology.
- Reaching such an understanding requires new technological developments allowing for the continuous monitoring of a larger set of parameter.
- 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:
 - rms is wny JERICO-PERT:

 will facus its main line to the assessment of the interactions between
 physics, biageachemistry and bialagy, and

 will not be restricted to pure technological aspects but will also
 include fundamental scientific considerations within its NA and JRA

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

JERICO Med - Note-Off meeting- Mall area



Main objectives

- Obj2) Support European coastal research communities by sharing existing networked observatories. Work packages addressing this objective: WP6, 7
- Obj3) Enable free and open access to data.
 Work package addressing this objective: WP5
- Obi4) Enhance the readiness of new observing platform networks by increasing the performance of sensors in terms of Technology Readin Levels TRL to become sufficiently mature for sustainable long-term. Work packages addressing this objective: WP 1, 2, 3, 4

Main objectives (con't)

- Obj5) Create a step change in the observing system performance by Integrating innovative sensors and instruments de Work packages addressing this objective: WP1, 3, 8
- Obj6) Demonstrate the adequacy of the observing monitoring strategies and improve the links between biogeochemical data with biological processes Work packages addressing this objective: WP1, 2, 3, 4
- Obj 7) Improve the cooperation with other obser-communities,
 Work package addressing this objective WP1

Obj8] Propose a mid term roadmap for coastal ocean observatories through a permanent dialogue with stakeholders. Work package addressing this objective WP1



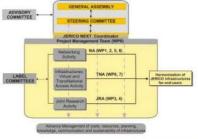


WP9 COORDINATION TASKS

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



WP.R

STAC (and selection panel)

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

Alicia Lavin Montero, IEO.

TO BE VALIDATED BY THE ASSEMBLY



34 partners





WP leaders

WP	Activity	Leader/CoLeader	WP	Activity	Leader/Coleader
WP9	MGT	IFREMER		- 10	
WP1	NA	COVARTEC/CNRS	WP5	NA	HCMR/Euro GOOS
WP2	NA	OG 5/HZG	WP6	VA	CEFAS
WP3	JRA	HCMR/IFREMER	WP7	TNA	CNR
WP4	[RA	IFREM ER/CNRS	WPB	NA	BLIT/CEFAS

The WP leaders and co-leaders are the coordinators of their WP and assume that with the tasks leaders.

WP 9

JERICO-Med - Nek-Off meeting - Walterea



AMENDMENT

- · IRIS partially withdrew from WP1 and from task 4.7
- · It is due to internal restructurations and loss of competences (Translate Dominique is out!)
- · IRIS propose to reduce its funding and to 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

WP	Pertidipent number	WP leader	Country	Leadername	Total amount
WPT	19	COVARTEC	Norway	Dominique Durand	935 832,15 (
WP2	15	0.083HZG	Germany	Rajesh Nair/Althelm Petersen	896 984,38 (
WP3	1.614	HOMRIFREMER	France/Grèce	George Petitokis/Laurent Detauney	1 409 978,22 €
WP4	- 1	FREMER	France	ingrid Pullat	1 590 781,50 t
WP5	14.8.11	HOMREURO GOOS		Leonidas Pemolotis/Patrick Cominge	802 233 28 4
WP6	4	CEFAS	United Kingdom	David Mills	978 773 61 6
WP7	6	CNR-ISMAR	taly	Stefania Sparnocchia	1 499 356,96 €
YAP8	3	BL	United Kingdom	Simon Keeble	899 805,00 €
WP9	- 1	IFREMER	France	Patrick Farcy	887 613,75 6
					9 999 276,84 €



Pre-financing

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

Amount received by Ifremer # 3 250 000 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 => 31/08/2019 (48 months)

Reporting periods:

> P1:01/09/2015 => 28/02/2017 (18 months) > P2:01/03/2017 => 31/08/2018 (18 months) > P3:01/09/2018 => 31/08/2019 (12 months)

Intermediate report periods :

> Every × months of the contract, project status review to follow the progress of the WP and Tasks

General Assembly

Reporting periods:

- > P1:01/09/2015 >AG1: March 2017 => 28/02/2017 | Ifremer ? Ifremer ?? ➤ P2:01/03/2017 ➤ AG2 September 2018 MI ?? ➤ P3:01/09/2018 → 31/08/2019
 - ➤ AG3 End of August 2019 Ifremer 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

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



Consortium agreement

- · Still pending
- Apologies for the late query from the contract department of Ifremer partly due to the zealous approach of our legal department.
- · CA to finalise before mid october





Project management: essential points

Caroline GERNEZ 1 Ifremer

29th September to 24 October 202

ERICO-Next - Kick-Off meeting - Biolikarco



Content of presentation

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

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Participant Portal

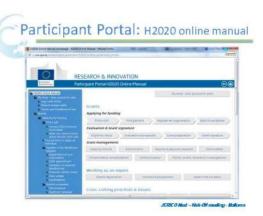
http://ec.europa.eu/research/participants/portal/desktop/en/home.html

- 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

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H2020 online manual

- "Grant management" chapter includes:
 - Keeping records
 Amendments
 Reports & payment requests
 Deliverables
 Dissemination & exploitation of results
 Communicating your project
 Checks, audits, reviews & investigations
- · Links to articles of AMGA
- Reference documents and templates at the end of each section

IFRED-Red - Non-Ottored Ing - Industri





H2020 Grant Agreement

Annexes

Annex 1:	Description of the action
Annex 2:	Estimated budget
Annex 3:	Accession Forms, 3a & 3b
Annex 4:	Financial statements
Annex 5:	Certificate on the financial statements
Аппех 6:	Certificate on the methodology

JERICO Next - Nick-OH meeting- Malloroa



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

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Periodic reporting

· Periodic technical report:

Part of it generated automatically from content uploaded continously 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

ERICO-Next - Hele-Offmonling - Mall area

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 325,000 or more): certificate on the financial statements

JERICO Rest - Nich-Offer ording - Inte



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.

JERNO Resi - Bah Of markus - Ballans



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

JEREO Herf - Ides-Offweeling - Malorca

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
 - o 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

Dominique Durand I COVARTEC

29th September to 2st Or tober 2015

ierico-Next - Kirk-Off meeting - Mallorco

Outline

- 1. Main objectives of the WP & List of partners
- 2. Presentation of the tasks and interfaces with other WPs
- 3. Deliverables and milestones (ref DOA)
- 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 Innovation / SME Value Creation opean Governand ESFRI, ERIC

Objectives and needs

- Delivery of a 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 (maybe) 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 observatories in Europe (WP1)

lerk o-Next - Rick-Off meeting - Mallorca

Organization

- · Coordination: D. Durand (COVARTEC),
 - · Deputy coordinator: A. Gremare (CNRS)
- · Expected effort: 89 person-months
- · 19 participants
- Duration: M1 M48

WP1: Integrated science strategy & Governance

Tasks and interfaces with other WPs

- Task1.1: Literature review (David, CEFAS) M1-M18
 - main environmental issues and threats and how they are presently tackled through European organizations, initiatives and projects
- Task 1.2: Science strategy (Antoine, CNRS) M1-M42
- To tackle key scientific questions about how best to observe physical, chemical and biological parameters in European waters and the adequacy of present observation strategies to meet key scientific and societal challenges in the coastal ocean
- Science committee follow-up
 Task 3 & 4 (Christos, HCMR; Joaquin, SOCIB) M1-M42
 - Specific interactions with other relevant European and International ocean observing systems and Infrastructures that provide complementary observations of biological (task 1.3) and for physical, chemical (task 1.4) parameters.
- Task 1.5 (Flona, MI) M18-M42
 - Strategy towards sustainability. To look at long term financial and legal governance structures for the sustainable implementation of IERICO-NEXT infrastructures
- Task 1.6 (Patrick, Ifremer) M24-M48
- map for the future and the JERICO label

WP1: integrated science strategy & Governance

Tasks and interfaces with other WPs

- Task1.1: Literature review (David, CEFAS) M1-M18
- Task 1.2: Science strategy (Antoine, CNRS) M1-M42
- to tackle key scentific questions about how best to observe physical, chemical and biological parameters in temperary waters and the adequacy of present observation strategies to meet key scentific and social followings in the coastal ocean Science committee follow-up
- Task 3 & 4 (Christos, HCMR: Joaquin, SOCIB) M1-M4Z
 - Specific interactions with other relevant turopean and international ocean observing systems and infrastructures that provide complementary observations of biological task 1.31 and/or physical, chemical task 1.41 poar-meters.
- Task 1.5 (Fiona, MI) M18-M42
- Task 1.5 (Patrick, Ifremer) M24-M48

WP1: Integrated science strategy & Govern

Jesico-Nest - Kick-Off meeting - Maliorca

Tasks vs. Participants

Hours			Tasks.	Tam 12	73912	19 14	Tage 1.6	Face 1.0
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REC/FE03	Figure termination					16		

Task 1.1 - literature review M1-M18

- · Lead partner: David Mills (CEFAS)
- Partners: Ifremer, Ingrid: CNRS (Antoine); Dominique
- · all WP1 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
 - get an overview of coastal monitoring programs around Europe

Societal challenges **Priorities in Jerico-Next**

key environmental challenges and service and/or policy requirements on:

MSFD

- 1) pelagic biodiversity,
- 2) benthic biodiversity,
- 3) chemical contaminant occurrence and related biological responses,
- 4) hydrography and transport,
- carbon fluxes and carbonate system
- 6) operational oceanography

WF1: Integrated science strategy & Governance

WP1: Integrated science strategy & Governance

Ierico-Next = Kick-Off meeting - Mallorca

Task 1.1: action plan

- Workshop M1 (Minutes of workshop: MS1)
- Use the MSFD descriptors as a basis for analysing threats
- M1 M7 (Feb 2016):
 - CEFAS and CNRS prepare a template of metadata for their respective country
 - To build on Jerico 1 overview of Jerico European observing networks and evaluate in relation to identified threats
 Inputs to WPB on criteria for establishing the end-user panel
- M7-M9 (Spring 2016):
 - Communication towards national representatives (WP1 partners; End-user panel)
- M9-M15 (Summer 2016):
 - National representatives populate the metadatabase for their own country
 Progress meeting at M12 (Sept 2016)
- Inputs from task 1.3 and 1.4 on contributions from other OOS and BOS
- M14-M18: Data analysis and synthesis

M18: D1.1 Report

Acrico-Blest - Kick-Off meeting - Mallores

Task 1.2 - Science Strategy

Objectives

To propose a scientific strategy for the JERICO-RI in continuity with the output of JERICO and in tight interaction with Tasks 1.1, 1.3, 1.4 & 1.6 and with WP4.

Subtask 1.2.1: Interaction with the JRAPs during the first 9 months of the project to optimize their sampling and monitoring strategy.

Subtask 1.2.2: Propose strategies to increase the effectiveness of coastal observatories in monitoring coastal waters based on: (1)literature review, (2) experience gained from JRAPs, and (3) coordination with other EU initiatives (if relevant)



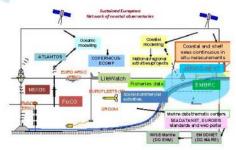
Task 1.2 - Science Strategy

- · Lead partner: CNRS: A. Grémare
- Other partners:
 - IFREMER: I. Puillat
 - COVARTEC: D. Durand
 - CEFAS: D. Mills
 - OGS: R. Nah
 - IMR: E. Svendsen
 - JRAPs Leaders: B. Karlson, A.Grémore, L. Nizetto, A. Rubio, L. Laasko
 - CEFAS (Task 1.1): D. Mills
 - HCMR (Task 1.3): G. Petihakis/C. Arvanitidis
 - SOCIB (Task 1.4): J. Tintore



- MS6 First feedback from the JRAPs (M36) D1.2 Science strategy v2 (M44) WPI: Integrated science strategy & Governance

Interaction with European initiatives Task 1.3 & 1.4



Task 1.3/1.4: Interaction with relevant infrastructures and consortia (M1-M42)

Task 1.3: Interaction with biology and biogeochemistry infrastructures and consortia:

Partners: HCMR, Ifremer, SYKE, CNRS, CEFAS, AZTI, SMHI, NIVA

Task 1.4 – Interaction with European and international Ocean Observing networks

Partners: SOCIB, MI, Ifremer, IMR, HCMR, SYKE, FMI, NOCS, CEFAS, IO-BAS, CNR, EuroGOOS, EuroARGO

WP1: Integrated science strategy & Governance

- Establish operational functioning links with:
 - existing consortia
 communities

 - projectsorganizations

representing biological and/or biogeochemical RIs and OOS of relevance to JERICO-NEXT

We shall establish close interactions and mechanisms for:

- > exchange of know-how,
- > best practices.
- > alignment of strategies

International conferences with broad attendances will be used to organize strategy meetings with the relevant projects and communities







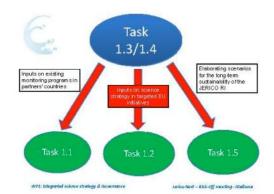






-EMSO, Euro ARGO, FixO3, AtlantOS, ICOS-OTC, COOPEUS, MEXICOOS, US-IOOS, IMOS, DAFF.

The STAC gathers representatives of EMSO-ERIC, EuroARGO ERIC, EMBRC, FP7-FixO3, FP7-NEXOS.



Task 1.5 - Economics and Governance M18-M42

- Leed partner: MI (Figna Grant)
- tors: HCMR, Ifremer, EuroGOOS, Covertec, CEFAS, SOCIB
- Objectives:

 Establish links with national funding and regional agencies, supporting observing systems.

 Make on assessment of the CAPEX and OPEX costs:

 Lagal framework for the long-term implementation of JERICO-NEXT

 an assessment for the most commonly used legal forms (ERIC, AISBL)

 Recommendation to which it the most suitable special purpose wehicle or legal entity

- Recommendation to which it the most suitable special jourpose whilde or legil entity Comprehensive cost benefit and value analysis, outnine gloot the first costs and benefits.
 The measure ble impact on interested communities of users.
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 Success exceeded thought here (No Insex National Access and WP 7 Insex National Access:
 Definition of a strategy for sustainability of JERCO-Rill as a European Research infrastructure.
 Defined models and options for the stateshold or JERCO-Rill hough for careque allowers with other 13 and ESP 81 infrastructures, and the integration into ensiting legal entities.

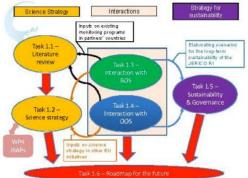
WP1: Integrated science strategy & Governance

Jerico-Nest - Kick-Off meeting - Mallarca



Task 1.6 - Roadmap for the future

- Lead Partner: Ifremer
- · Contributors: Covartec, HCMR, CNRS, MI, SOCIB, SYKE, FMI, CEFAS
- . Scope: from a holistic analysis of the WP1 results to a realistic roadmap for the future:
 - Science strategy taking in account the feedbacks from JRAPs
 - Inputs from and/or coordination with other EU initiatives
 - Legal and economic strategies: What governance? What business plan? What support from private sector, stakeholders etc.
 - Strategy for implementation taking in account the European and international moving context
- Synthesis of the technical and scientific parts of the JERICO Label



grated science strategy & Go

Herico-Next - Rick-Off meeting - Mallorea



WP 1 - Outcomes

- 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. This is mainly managed in tasks 1.1, 1.2 and 1.6
- Financial and governance strategy 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. This work is managed in the task 1.3 to 1.5
- Integrate the scientific and governance strategies into a comprehensive strategy for the sustainability of JERICO-NET and the delivery of an harmonized infrastructure, complaint with EMIODNET, Copernicus etc. This will include an update of the Label document, with a wider meaning. (task 1.7)
- fight link to JPLOCEANS SRIA Area 4.3 Action 2. Develop and implement an integrated Strategy for Coastal Observation Area 4.6 Action 1 and 6. Support for the set-up of the EOOS concept, integrate societal
- Area 5: Science-policy interface Area 7: infrastructures

WP1: Integrated science strategy & Governance

Jerico-Next - Kick-Off meeting - Mallerca



Deliverables

D1.1	Review of sites at threat (Task 1.1)	4	CEFAS	R	PU	M18
D1.2	Science strategy (Task 1.2)	4	CNRS	R	PU	M18/M 44
D1.3	Governance and financial structure (Task 1.5)	4	M	R	CO	M38
D1.4	Roadmap for the future (Task 1.6)	4	Ifremer/ Covartec	R	PU	M48

WP1: Integrated science strategy & Governance

Jerico-Next - Kick-Off meeting - Mallorca

WP1 Milestones

Mileston	Actions	WPs	Month	Validation criterias
MSL	Workshop task 1.1 (Monday 28 September) 2013(WPL1	1	MoM
MS2	Workshop task 1.2.1	WPLZ	1	MoM
MSS	Meeting with STAC to endorse the guidelines for JRAPs	WPLZ	ь	MoM
MS4	Strategic guidelines for the implementations of the IRAPs	WP1.2, WP4	7	Guidelines communicated to and endersed by the consortium
MSD	Mechanism for interaction with similar facilities	WPL 3/L4	12	Mechanism communicated to and endorsed by the consortium
MSb	1 th feedback from the sRAPS (Workshop)	WP4/WP1	16	D4.4 delivered
M\$22	Recommendation from HF radar community	WP3, WPL6	34	Report delive sed
MS7	Jerico Label	WP1.6	42	Label endorsed by the Jerico label Committee



Action plan - 18 months

- Workshop Task 1.1 at KO (MS1)
 Plantierten
 Joint workshop WP1/WP4 at KO (MS2, MS43)
 Presentation of the MIAPs
 Curiffeation of the MIAPs approach to feed the science strategy
 Meeting with EuroG OOS and the STAC.
- WP1.2: Two joint WP1.2 JRAPs meeting
- tnd Nov 2815 and Feb 2816

 WP1.2: Meeting with scientific committee (MS3 Feb 2016)

 WP1.2: Strategic guidelines to the JRAPs (MS4 March 2016)
- JRAP progress workshops #1 [Feb 2017]
 dialog and tuning for optimal feedback on the science strategy
 Science strategy v1 (D1.2 Feb 2017)

Science strategy v1 (D1.2 - PEB COLF)
Interaction with Biological observatories
— Plan to be defined by New 2015 - Task 1.3
Interaction/harmonization with other COS
— Plan to be defined by New 2015 - Task 1.4
INFE Integrated science strategy & Convenance

INFE Integrated science strategy & Convenance

INFE Integrated science strategy & Convenance

Risks and gaps - questions to the partners

- Coordination with parallel initiatives in Europe (TASK 1.3 and 1.4)
 - EuroGOOS (WGs)
 Marine Board

 - Marine Board
 JP-OCEAN
 Ares 4.1 Action 1: Develop and implement on integrand Straingy for Coastal Observation
 Ares 4.3 Action 1 and 6.3 separa for the service of the ECOS convocat, integrate special needs
 Ares 5.3 sociate-abolty inter-flore
 Ares 5.3 sociate-abolty inter-flore
 Ares 7.3 integrated action of the ECOS observation observation of the ECOS observation of the ECOS observation observation of the ECOS observation observat
 - Other EU inovation projects (ex. Biotech sensors: BRAVOO, etc.)
 Other relevant EU application projects (ex. BRDGES)
 Other relevant in katives outside Europe.
- Optimizing coordination between WP1 and WP4 for maximizing outcomes from the JRAPs for the science strategy
 Produce high-quality and consensual strategical guidelines for the JRAPs

WP1: Integrated science strategy & Governance

Jerian-Next = Kick-Off meeting - Mallora

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

Rajesh Nair/OGS, Italy & Wilhelm Petersen/HZG, Germany

WP2: Harmonization of technologies and methodologies - technical strategy

- 1. Main objectives of the WP & List of partners
- 2. Presentation of the tasks and interfaces with other WPs
- 3. Deliverables and milestones (ref DOA)
- 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



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 VMP durin, the Bletime of the project;
 consolidating ongoing network harmonization effort carried over from the concluded JERICO project;
 extending these efforts to include new systems an

WF2

List of partners

g Activity, M1-M48, 17 partners, 101.15 person-months, 895900 €

Work package number	2	Start M	outh	1	End	Month	48
Work package title					Type of activity		
Lead Beneficiary			. (OGS & H	ZG		
Participant number	23	15	2	4	6	7	9
Short name of participant	OGS	HZG	AZTI	CEFAS	CNR- ISMAR	CNRS	DELT
Person-months per participant:	24.5	15	7.5	4	10	2	0.6
Participant number	13	14	17	1	22	27	28
Short name of participant	FMI	HCM R	IMR	Iftem er	NIVA	SMHI	SOCIB
Person months per participant:	1	11	1.75	5.5	5.3	3	2
Participant number	29	31	- 11				
Short name of participant	SYK	UPC	EURO ARGO				
Person-months per participant:	3	5	0				



Tasks

- Task 2.1: Coordination of network harmonization (M1-M4
- Task 2.2: Consolidation of initiated network harmonizati actions (M1-M48);
- Task 2.3: Harmonizing new network systems (M1-M48);
- Task 2.4: Harmonizing new network sensors (M1-M48);
- Task 2.5: Calibration and assessment (M1-M48);
- Task 2.6: The JERICO Label Technical Committee (M1-M

Tasks

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



Tasks

Activity descriptions, Leads & Contacts

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Tasks

Links to other WPs

Task 2.2 → WP5

Task 2.3 WP3, WP5, JRAP(s)

Task 2.4 >> WP3, WP5, JRAP(s)

Task 2.5 → WP3, WP5

Task 2.6 → WP1

WP2

JEHOD-Bert - Elsk-Offuse brg - Huberte



Deliverables

D2.1: Report on the status of HF-radar systems and cabled coastal observatories within the JERICO network and, more generally, in the European context (M12)

D2.2: Report on the status of sensors used for measuring nutrients, biology-related optical properties, variables of the manne carbonate system, and for coastal profiting, within the JERICO network and, more generally, in the European context. (M18)

D2.3: Report on ongoing harmonization initiatives within the JERICO network for the following three key technology areas: Fixed Platforms, Ferryboxes and Gliders. (M33)

D2.4: Report on Best Practice in the implementation and use of HF-radar systems and cabled coastal observatories. (M40)

D2.5: Report on Best Practice in the utilization of sensors used for measuring nutrients, biology-related optical properties, variables of the marine carbonate system, and for coastal profiling (MM2)

D2.6: Report on the activities relating to calibration and assessment carried out during the project (M46)

D2.7: The "JERICO-NEXT Label" definition. (M48)

JERDO-Next - Nich Offmerling - Malforta



Milestones

MS8: WP2Kick-off Meeting. (M1)

MS9: First Workshop of Task 2.3, "Harmonizing new network systems". (M6)

MS10: First Workshop of Task 2.4, "Harmonizing new network sensors". (MB)

MS11: First Workshop of Task 2.5, "Calibration and assessment". (M14)

MS12: Workshop of Task 2.2, "Consolidation of initiated harmonization actions, dealing with Fixed Platforms, Ferrytoxes and Gliders" (M36)

MS13: Second Workshop of Task 2.3, "Harmonizing new network systems". (M38)

MS14: Second Workshop of Task 2.4, "Harmonizing new network sensors", (M40)

MS15: Second Workshop of Task 2.5, "Calibration and assessment". (M42)

WP 2

JEREO-Red - 10th OF needing - Retorn



WP2

Main actions (M1 - M18)



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JERICO-Next - Rich-Offworking - Metions



(Some) risks and gaps

The transition from JERICO to...... JERICO-NEXT in Task 2.2

TASK 4.3: END TO END QUALITY

- To describe best practices in all phases of the system (pre-deployment test, maintenance, calibration etc.):
- To adopt common methodologies and protocols;
- To move towards the harmonization of equipment which will help in reducing maintenance and calibration costs.

TASK 2.2: CONSOLIDATION OF INITIATED NETWORK HARMONIZATION ACTIONS

reviewing accomplishments,

Update and revise relevant documentation,

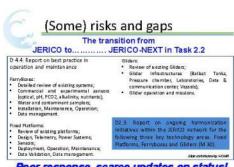
in the following three key technology areas. For

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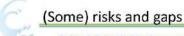
Accurate information will be the key!

WP2

JERECO-Rest - Nich-Offmering - Bull orts



Poor response, scarce updates on status!



Subtask 2.4.1: Nutrient sensors



(Some) risks and gaps

Subtask 2.4.1: Nutrient sensors

Key information required from partners

Once more, quality of information and response!

WP2

(Some) risks and gaps

Subtask 2.4.2: Optical sensors for biological parameters

Extensive array of different optical sensors to measure light intensity. absorption, fluorescence and scattering, and various imaging systems Tasks (D2.2 M18; D2.5 M42):

- review and evaluate the capabilities of the optical sensors employed for biology-related measurements within the JERICO network
- define Best Practice in the use of similar sensors
- provide recommendations regarding these issues to manufacturers and ndustry (link with SMEs)

Most important links: 3.1; JRAP-1, JRAP-5: 5.2

Again, quality of information and response!

(Some) risks and gaps

Subtask 2.4.4: Sensor systems for coastal profiling

Main objectives: define Best Practice in employing coastal profiling systems, investigate their portability (across systems/platforms) and performances with a view to provide recommendations to manufacturers and industry (link with SMEs).

and industry (link with SMES).

PARTNERS (Task 2.4): HZG, NIVA, CEFAS, FMI, Ifremer, OGS, SMHI, SYKE,
HCMR, CMRS, IMR, EURO-ARGO (note: the Lead, CNR, is missing from the
list in the DoA!)

- list in the DoA!)
 Presentation of the subtask
 Review and evaluate the effective capabilities of these technologies
 Describe the ways they are currently being used
 Deal with data quality concerns
 Interface with WP3, Task 3.3 dealing with innovative improvement of

existing profiling approaches
Deliverables and milestones Contribution to D 2.5: Report on Best
Practice...and for coastal profiling (M42, HZGRNIVA)
Working approach: Survey among partners and literature review

(Some) risks and gaps

Subtask 2.4.4: Sensor systems for coastal profiling

Risks: to reach M42 in a hurry.

Gaps: need to identify profiling systems to review and respective partners contributing to the relevant deliverable

First list (from the DoA)

- Coastal profiling floats → systems?
- Bottom mounted profiling systems (IMR)
- Argo floats/JELAB (HCMR, Ifremer?)
 Other autonomous profiling system
 Fishing vessel-based, net-deployed sensor systems (CNR)

1st action in the next 6 months : to prepare a questionnaire for a survey on systems

used in the JERICO consortium.

Next actions to be tuned with D2.5 timeline (direction from HZG&NIVA expected)

Again and again, quality of information and responsel

29

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 cork 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

29th September to 3th October 201

HREO-Next - Kick-Off meeting - Indian a



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

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1. Main objectives & partners

- · Organisation and partnership
- Coordination: I. Puillat, Deputy coordinator: A. Gremare (CNRS),
- ☐ Organisation and management of WP4:
 - 6 JRAPs, with a leader for each + collaborative work with WP1 formalised by the management task 4.7: Ifremer, AZTI, CNRS, FMI, NIVA, SMHI, SOCIB, COVARTEC
- ☐ Expected effort: 162 Men months /19 partners



1. Main objectives & partners

☐6JRAPs:

- · JRAP-1 on pelagic biodiversity (B. Karlson, SMHI)
- JRAP-2 on benthic biodiversity (A. Grémare, CNRS)
- JRAP-3 on chemical contaminant occurrence and related biological responses (L. Nizzetto, NIVA)
- . JRAP-4 on hydrography and transport (A. Rubio, AZTI)
- JRAP-5 on carbon fluxes and carbonate system (L. Laakso, FMI)
- · JRAP-6 on operational oceanography (B. Mourre, SOCIB)

WP.4

JERICO-Need - Rich-Off meeting- Mall area



1. Main objectives & partners

IRAP	lead	Partners	Sites
1	8. Karlson, SMHI	SMHI, CEFAS, CNRS-LOV, CNRS-Univ Litt, CNRS-MIO, Deltares, Ifremer, NIVA, RWS, SYKE, VLIZ, and DAFF	Northern Baltic, Kattegat-Skagerrak, Eastern Channel and Southern North Sea, Ligurian Sea, Benguela Current
2	A. Gremare, CNRS-EPOC	CNRS-EPOC, HCMR, Ifremer- Benthos, CNRS-UBO	Gironde estuary, Aegean Sea , Brest estuary
3	L. Nizzetto, NIVA	NIVA_HZG, IMR, IRIS, CEFAS	North Sea, Norwegian Sea (possibly Baltic and Biscay Bay)
4	A. Rubio, AZTI	AZTI, Ifremer, CNR+SMAR, CNR5-MIO, CMCC, HZG	SE Bay of Biscay, NW Med. sea, German Bight
5	L. Laakso, FMI	EMI, SYKE, NIVA, SMHI, HZG, HCMR, CNR , CNRS SBR	Baltic Sea, Med Sea, Norwegian Shelf, Barents Sea, North Sea, West channel, Bay of Biscay
б	6. Mourre, SOCIB	SOCIB, IH, AZTI, CMCC, CNR, FMI, HCMR, IMR	Ibiza Channel, Adriatic Sea, South Bay of Bistay, Aegean Sea, Portuguese Nazare Canyon area, Baltic Sea, Norwegian Sea



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 secure the interactions with task 1.2 of WP1."

✓ Done, on Tuesday 29 sept. 2015

Actions with WP1: meeting for scientific strategy: where and when? WG for the Scientific Strategy in progress
Action with WP8: communication material to be provided

"JRAPs progress and outputs will then be presented during 3 dedicated workshops, which will address links with:

- rkshops, which will address links with:
 WP2, for harmonization of methods;
- WP3, for feedback after application of technological developments;
- WPS, for the application of data management procedures and
- WP8, for the communication of results and support materials

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To be consequently organised

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2. Interfaces with other WPs

- Interactions with WP2, 3, 5, 8:
 - WP4 workshops #1: M18 (feb.2017)
 - WP4 workshop #2: M36 (Aug 2018)
 - WP4 Workshop #3: M48 (Aug. 2019)
 - WP3 dedicated task for JRAPs... 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 JRAP (WP5)
 - Gathering photos, video, media... of exp. in lab and in field

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3. Deliverables and milestones (ref DOA)

☐ Deliverables

D4.1	Present approaches to monitor European coastal seas	Covertec	M9
D4.2	Progress report#1	Ifremer	M13
D4.3	Progress report#2	Ifremer	M24
D4.4	First valorisation results for each region	Ifremer	M36
D4.5	JRAP Synthesis and contribution, to the strategy for the future	CNRS	M43

WP 4



4. Deliverables and milestones (ref DOA)

☐ Time line: overview

Time Line	MS/D/WS	Actions	WPs	Validation criterias
Sept.15 (M1)	M543	Presentation of JRAP projects during KO meeting. Presentation of WP4 activities and time schedules agreed with WPs and partners. Actions with WP1 & 8 planed.		Reported in a KO meeting report
Mar. 16 (M7)	MS4	Strategic guidelines for the implementations of the JRAPs	WP4	Guidelines communicated to and endorsed by the consortium
May 16 (M9)	D4.1	Present approaches to monitor European coastal seas (Covartec)	WP1	
Sept. 16 (M13)	D4.2	Progress report #1 (Ifremer)	WP4	
Feb. 17 (M18)	MS44/ WS#1	WP4 Workshop#1: Presentation of JRAP progress, highlighting links with other WPs .		Reported in WP4 workshop#1
Aug. 17	D4.3	D4.3 Progress report #2 (ifremer)	WP4	



4. Deliverables and milestones (ref DOA)

Time Line	MS/D/WS	/WS Actions		Validation criterias		
Aug. 18 (M36)	MS6	First feedback from the JRAPs	WP1, WP4	04.4 delivered		
Aug. 18 (M36)	MSR2	Workshop #2: Presentation of JRAP progress, highlighting links with other WPs	WP4, WPs	Reported in WP4 workshop#2		
Aug. 18 (M36)		First valorisation results for each region (Ifremer)	WP4	Reported and material transferred to WP8		
Mar. 19 (M43)		JRAP Synthesis and contribution, to the strategy for the future (CNRS)	WP4, WP1	Feedback of JRAPs after deployment and 1st result analysis to contribute to the strategy: written and discussed with WP1		
Aug. 19 (M48)	WS#3	Final WP4 Workshop: Presentation of IRAP results, acquired data, and strategy for the future.	WP4, WPs	Reported in final WP4 workshop		



5. 18-month time line

Time Line	MS/D/WS	Actions	WPs
Sept 15 (M1)	M543	Presentation of JRAP projects during KO meeting. Presentation of WP4 activities and time schedules agreed with WPs and partners. Actions with WP1 & 8 planed.	WP4, WPs
Sept-Oct 15	decision	WP5 sends template to JRAP leaders: what parameters, what platforms?	WP5 to WP4
By 15 oct: 15	decision	Template for science strategy to be sent to JRAPs	WP4
30 Nov. 15	Request	JRAPs send back populated template to WPS	WP4 to WP5
30 Nov. 15	request	JRAPs send back draft version of the science strategy	WP4
By 15 Dec	action	WP1 and WP4 leaders analyse JRAP strategy and work on cross cuttings between JRAPs	WP1,



5. 18-month time line

Time Line	MS/D/WS	Actions	WPs
Dec-Jan 15	Meeting	Meeting with JRAP leaders: strategy analysis	WP1, WP4
Mar. 16 (M7)	MS4	Strategic guidelines for the implementations of the JRAPs	WP1, WP4
May 16 (M9)	D4.1	Present approaches to monitor European coastal seas (Covartec)	WP1, WP4
Sept. 16 (M13)	D4.2	Progress report #1 (Ifremer)	WP4
	MS44/ WS#1	WP4 Workshop#1: Presentation of JRAP progress, highlighting links with other WPs .	WP4, WPs

WP 4

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6. WP4: Risks and gaps

- Misundersanting of the need to implement of science strategies integrating physics biology &/or chemistry among JRAP team
- Misunderstanding of the links with WP5 that will frame/drive the JRAPs' data flow

1111RAPs members... Your role is important, because you need to act at the crossroad of WPs!!!!!



7. More... for each JRAP























JRAP#1: 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 JERICO-NEXT can help address MSFD requirements (D1-Marine biodiversity for the pelagic realm, D5 Eutrophication is addressed)
- · To use JERICO-NEXT observation platforms and other infrastructure



JRAP#1: Main Objectives

- · To utilize developments from WP3 innovations in technology and methodology (also from WP2 review and synthesis of existing methods)
 - · Task 3.1 Automated observations of phytoplankton
 - Task 3.2 HF-radar (advection of algal blooms)
 - · Task 3.4 Microbial and molecular sensors
 - Task 3.5 Carbonate system (e.g. primary production)
- · To work together with other JRAP:s in WP4
- To provide data sets and novel data types to WP5



JRAP#1: Preliminary Strategy

- Carry out short terms studies of different types of algal blooms
- Multi discipline approach: Biological, chemical and physical
- 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 bio-optical parameters such as chl. fluorescence and spectral fluorometry for photosynthetic pigments
 - Automated identification and enumeration of organisms

 - Pulse-shape recording Flow Cytometry (in situ and on ship)
 Imaging Flow Cytometry (in situ and on ship) . High Troughput sequencing of 165 and 185 rDNA
 - Counting and identifying organism using the light and electron

microscope



JRAP#1: 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 JRAP:s
- Interactions with WP5
 - Definitions of data types and data formats

JRAP#1: plans for the first 18 months

- Study at Tängesund observatory in the Skagerrak (SMHI, NIVA, WHOI, Scanfjord, probably also NEA, UGOT and AWI)
 - Mussel farm
 - Focus on biotoxin producing algae
 - Imaging Flow Cytometry
 - Deployment of mooring
 - Frequent water sampling and analysis of samples
- English channel North Sea
 - Study 1 (CERAS) Autumn bloom?
- Study 2 (VLIZ?, Deltares?, RWS?) E. Channel study 1 (IFREMER+CNRS) Autumn bloom
- Mediterranean
- Preparations for studies in 2017

JRAP #2

Monitoring changes in macrobenthic biodiversity. Assessing potential environmental controls and functional consequences

> Antoine Grémare, CNRS-UB, antoine.gremare@u-bordeaux.fr

JRAP#2: Main Objectives

- Assessing spatio-temporal changes in benthic diversity under different sources of disturbance
 - Using new tools for assessing biodiversity

 - Testing new technological developments (x FP7- JERICO and WP3) Coupling biological, biogeochemical and p hysico-chemical observations
 - Coupling new data acquisition with existing observing systems

- Identifying potential environmental controls and thus potential proxies of biodiversity

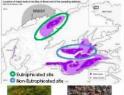
- MSFD Descriptor 1

JRAP#2: Main Objectives

- Assessing functional consequences resulting from spatiotemporal changes in benthic diversity
 - Including new biological compartments in the assessment of biodiversity
 - Testing new technological developments (links with JERICO and WP3) Coupling biological, biogeochemical and physico-chemical observations
- Using a hierarchical approach to unravel the interactions between the different (kind of) parameters in controlling ecosystem functions
- MSFD Descriptors 1. Biological diversity, 2: Non indigenous species, 4: Food web, 5: Eutrophication, 6: Sea floor integrity

JRAP#2: Preliminary Strategy

a) Example 1: Eutrophication in the Bay of Brest



> Historical data and spatial survey

- ➤ Macrobenthic Biodiversity sampling carried in March and October yearly since 1992 on six stations of the Bay of Brest; three stations from the eutrophicated site and three stations from the non-eutrophicated site.
- Sampling of Biodiversity and Functions (March 2017)

JRAP#2: Preliminary Strategy

b) Example 2: Fishing in the Bay of Brest



- Connexion with the IMPECAPE national project (2 years)
- 10 sampling stations over a gradient from zero (3 control stations) to a maximal fishing pressure (7 stations covering the whole gradient from low to very high fishing pressure).
- Sampling of Biodiversity seasonally during 2 years (starting in 2015)

 - Before the fishing season (September)

 - Middle of the fishing season (late
- hber)
 End of the fishing season (Late March)
 Summertime (July)
- Sampling of Biodiversity and Functions (Late March 2017) JENEO-Red Not-Office Ing Believe

JRAP#2: Preliminary Strategy Example 3: Effects of the inputs from the Gironde River



- 10 sampling stations over two inshore-offshore gradients.
- Two kinds of stations (Biodiversity, Biodiversity and Functions)
- 4 cruises. Timing set based on average seasonal changes in the water flow of the Gironde River
- First JERICONext cruise in October 2016 on board of the RV Côte de la Manche

JRAP#2: plans for the first 18 months

Date(MM/YY) /Period (MM/YY-MM/YY)	What 8where?	Who?
October 2015-Jan. 2016	Elaboration of the Science Strategy	all
Jan. 2016-Aug. 2016	Interaction with WP1 for D4.1	all
Oct 2016 –Feb 2016	Processing and analysis of historical data	all



JRAP#3

Occurrence of chemical contaminants in Northern coastal waters and biological responses

Luca Nizzetto, NIVA, luca.nizzetto@niva.no



- To demonstrate the use of JERICO-CRI as a support for the implementation of MSFD on marine contamination (D8).
- 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 analysing dependences on water physical-chemical
- 3. To demonstrate the integrated use of fixed platform and passive samplers for monitoring of "legacy" hydrophobic
- 4. To assess, in field, biological responses to contaminant stress



JRAP#3: Preliminary Strategy

Preliminary Strategy

1. Use of the FerryBox for collecting high resolution data of «new» contaminants in the North Sea and Norwegian Sea.













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 60 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.





JERICO-Red - Non-Offweeling - Beloves



JRAP#3: plans for the first 18 months

Date(MM/YY) / Period (MM/YY-MM/YY)	What & where ?	Who?
October 2016-M arch 2017	FerryBox monitoring summer campaign (North Sea Norwegian Sea) (possibly Baltic-Biscay)	NIVA, HZG (CNRS/IFREMER SYKE)
April 2016-Sept 2016	FerryBox monitoring summer campaign (North Sea-Norwegian Sea) Possibly Baltic-Biscay)	NIVA, HZG (CNRS/IFREMER, SYKE)
Jul 2016-March 2017	Passive samplers on fixed platform	NIVA, HZG, IMR, IRIS(?), CEFAS(?)

JERICO-Rest - Non-Ottoreling - Bellevi



JRAP#4

4D characterization of transboundary shelf/slope hydrodynamics and transport

Anna Rubio, AZTI, arubio@azti.es



JRAP#4: Main objectives

- 3D characterization of shelf/slope transports in three transboundary areas
- STRATEGY:
- 1- Setting the best observational strategy,
 - · 2- Perform the deployments to improve existing observing systems,
 - 3-Joint analysis of multiplatform data of surface currents and hydrology (HF radars, drifters, moorings...)
- MAIN DRIVER: Quantifying transport by ocean currents and its potential impact on the distribution of floating matter (plankton or other pelagic organism, marine litter...) in line with MFSD descriptors (7, 10 and 2).

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MP 4

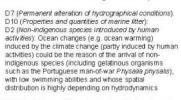
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JRAP#4: Main objectives

Contribution to assess the following MFSD descriptors:







JRAP#4 will also provide inputs for other JRAPs, focused on other descriptors (e.g. JRAP#1, dealing with pelagic blodiversity, which will require information about hydrographical and hydrodynamical conditions and spatiotemporal changes)



JRAP#4: Preliminary Strategy

- 3 STUDY AREAS: SE Bay of Biscay, Mediterranean, German Bight
 Demonstration based on
- ➤ Demonstration based on HISTORICAL DATA and NEW OBSERVATIONS (SCALES: hourly, > 1 years)
- OBSERVATIONS (SCALES: hourly, > 1 year)

 Observing System Simulation Experiments (Task 3.7), used to objectively prapose optimization in existing observing network (new HER antennas, different fixed stations position). Their application will depend on technical and economical criteria



WP4

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JRAP#4: Preliminary Strategy

- > 3 STUDY AREAS: SE Bay of Biscay,
- Mediterranean, German Bight

 Demonstration based on
 HISTORICAL DATA and NEW
 OBSERVATIONS (SCALES: hourly,
- OBSERVATIONS (SCALES: hourly, > 1 year)

 Observing System Simulation Experiments (Task 3.7), used to objectively propose optimization in existing observing network (new HFR antennas, different fixed stations position). Their application will depend on technical and economical criteria



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JRAP#4: Preliminary Strategy AREA PROCESS, SCALES, DRIVERS SERIO PROCESSA lang shaf/slopa Circulation and Equipmenescale (seasonal stope current, wind of sine circulation, complex bathymatry) —ORIVERS /elyleb, merine inter Onophysis NW New -ORIVERS /elyleb, merine inter Oriverse recurrent in electronic strategy -ORIVERS /elyleb, merine inter Oriverse recurrent in electronic strategy -ORIVERS /elyleb, merine inter Oriverse recurrent in electronic strategy -ORIVERS /elyleb, merine inter -ORIVERS /elyleb, merine inter



JRAP#4: plans for the first 18 months

Time (MM/YY- MM/YY)	What & where? JRAP#4	Who?	
10/15- 06/16	Review of existing systems historical data, help to assess nature runs, converge to a scientific strategy and OSSEs strategy: ALL STUDY AREAS	all	
12/2015	Operation of HF radar and other operational existing systems: ALL STUDY AREAS Deployment of 2 HF radar antennas: NW MED	all CNR-ISMAR	
02/2016	Participation in Task 2.3 Workshop: Harmonizing new network systems (MS9) ¿in San Sebastian?	All HFR operators	
05/2016	Deliver D4.1	All	
08/2016	Deliver input for D4.2	All	
01/2017- 08/2017	Preparation of further deployments (link with subtask 3.2.1 and 3.2.2) $ \label{eq:continuous} $	AZTI, JFREMER, CNR ISMAR, CNRS,	
02/2017	Use OSSES to define further deployments/ test existing configurations (link with WP3): ALL STUDY AREAS PRESENTATION of JRAP PROGRESS (WP4 workshop # 1)	all	



JRAP#5

Coastal carbon fluxes and Biogeochimical cycling

Lauri Laakso Finnish Meteorological Institute, Iauri.laakso@fmi.fi

WP4

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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



Baltic Sea: Nonwegian Shelf, Barents Sea Mediterranean sea North sea Bay of Biscay, Western Channel



WPA

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JRAP#5: plans for the first 18 months

Time	What &where?	Who?
Oct 2015	Preliminary check-up of the development work to be done in WP3	All JRAPS partners
Oct 2015	Current status of sites, observations and methodology	All JRAP5 partners
Oct 2015	Discussing synegies with JRAP#1.	FMI, SYKE, SMHI
Feb 2016	Review of current status of sites	All JRAPS partners
Mar 2016	Decision on sampling strategy	All JRAPS partners + WP1
May 2016	Deliver input for D4.1	All JRAPS partners
June 2016	Deliver input for D4.1	All JRAPS partners
Sep 2016 Joint Workshop with WP3 (to be agreed)		FMI, SYKE, NIVA, HZG etc. +WP3
Mar 2017	Start of JRAP5 sampling	All JRAPS partners
WP4	,	ERICO-Next - IDeh Off weeking - Ballord



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 observation for the assessment of operational regional mode implemented in the coastal ocean,
- · To Give recommendations for coastal forecastin system improvements, both in terms of models an 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 (OSEs)

Task 2 - Coastal ocean forecasting system improvements

Subtask 2.1 - Modelling improvements

Subtask 2.2 - Observing System improvements

→ Observing System Simulation Experiments (OSSEs)



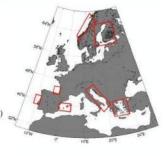






8 partners

- · SOCIB (Spain)
- · IH (Portugal)
- · AZTI (Spain)
- · CMCC (Italy)
- · CNR (Italy)
- FMI (Finland) · HCMR (Greece)
- IMR (Norway)



JRAP#6: plans for the first 18 months

Milestones / Deliverables	Title	Delivery date	
JRAPS-M1- milestone	Strategy, preparation and implementation of the Case study		
JRAP4-R1 - report	Model assessment using JERIOO observations	Month 22 (July 2017)	

- Month 0: KO meeting

- Month 0: KO meeting
 Month 3: general Webe wSkype meeting to define and coordinate model assessment strategies
 Month 6: detailed description of model, period of study, observations and model assessment strategy in each area Month 12: WebewSkype progress meeting
 Month 15: first outputs of the model assessment exercise
 Month 18: presentation of JRAP6 progress at JRAPs workshop #1
 Month 22: report on JRAP6 model assessment

40

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

Leonidas Perivoliotis Hellenic Centre for Marine Research (HCMR) Patrick Gorringe (EuroGOOS)

29° September to 1™ October 2015

JERICO-Next - 10ck-Off meeting - Mallorca



WP5: Data management

Objectives

- · Integrate the biological data in the JERICO NEXT data portfolio
- Define the project's data policy by enhancing/promoting the open access 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 FerryBoxes, HF Radars and Gliders
- Explore the possibility to connect the JERICO NEXT Data system with a Virtual Access Infrastructure

15 partners



WP5: Data management

Challenges

- . 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.

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





WP5: Data management

Tasks Overview

Task 5.1: Data policy and distribution (EuroGOOS)

Timeline: M1-M40
Task 5.2: Integration of biological data (VLIZ)
Timeline: M1-M48

Task 5.3: Platform registration and metadata management system (Ifremer)

lass 5.3: Piazrorm registration and metadata management system (irremer) Timeline:M1-M44 Task 5.4: Interoperable data flow from in situ measurements to archiving in data centers (CNR-ISMAR)

Timeline:M1-M42
Task 5.5: Enhancement of Quality Control procedures for sensor based biochemical data (SMH)
Timeline: M1-M40
Task S. Sc. Definition of Quality Control procedures for HF Radar data (AZTI)
Timeline: M1-M42
Task S. 7: Scientific calibration procedures on gliders data collection (SOCIB)
Timeline: M1-M40
Task S. 8: Uning JERICO-NEXT activities to a Virtual Access infrastructure (EuroGOOS)
Timeline: M1-M18
W/P S.

Task 5.1: Data Policy and distribution (M1-M40)

Task leader: EuroGOOS

- am objectives of the lask:

 Provide recommendations on a free and open data policy for JERICO-NEXT

 Deliver a JERICO-NEXT catalogue of metadata

 Define the specifications for handling European Ferrybox data

Partners involved: EuroGOCS, Ifremer, SOCIB, HCMR, ETT, SYKE, CNR-ISMAR, MARIS, SMHI, NIVA, HZG, VUZ (12 partners)



Task 5.1: Data Policy and distribution (M1-M40)

D.S.1 - Preparation of a document with recommendations on open and free data policy as derived from IOC, WIMO, ICES and other organization documentations

- Review existing data policy documents such as:

 WMO resolution 40 WMO policy and practice for the exchange of meteorological
 and related data and products including guidelines on relationships in commercial and related with an ephaloxics including meteorological activities IOC Oceanographic Data Exchange Palicy ICES data palicy HELCOM, OSPAR, UNEP....

- ROOSs data agreements

 It is a constant (L.e. DOI) of data as an important companent but also explore other options. Do this in clase cooperation with EMODnet, INSTAC, SON and AtlantOS to avaid duplication of efforts and streamline.



Task 5.1: Data Policy and distribution (M1-M40)

05.2 - Release of a IERICO-NEXT catalogue comprising information based on task 5.3 output. The catalogue will include the IERICO coastal observing systems and products using also (tut not only) the existing NODC infrastructures (coordinated in SeaDataNet), EuroGODS RODOS and EMODNet.

The task will make use of the Existing EMOOnet Physics catalogue that needs to be tailor made to meet the needs of JERICO-NEXT and more information added. This will involve:

- An ISO service description for the WMS service to register in a cotalogue
 An ISO service description for the WFS service to register in a cotalogue
 OGC/INSPIRE compliant descriptions of the WMS and WFS itself, as well as the WFS
- response.

 Link to the Common Data Index, CDI (ISO compliant).

 Use in the descriptions as much as possible the vocabularies like EDMIG, EDMERP, EDIOS, and NERC Vacab service (PD1, LOS etc.) as in use in SeaData Net.



Task 5.1: Data Policy and distribution (M1-M40)

D5.3 - Defining specifications for a European Ferrybox data management system.

A dedicated Ferrybox team will be formed and in charge for defining the specifications and

- A define such things as:

 A common procedure and recommendation for data acquisition (sampling rate, water samples for calibration, meta-data)
- A common format recommended (not mandatory) for data submission (ASCII or NetCDF)
- A common format for data distribution (NetCDF)
- Agreed QC procedures
 A structure to host the data at regional , ROOS, and global scale
 Produce a master copy, preferably at regional level

Previous/ongoing FB activities should be taken into account i.e. MyO (in the past) and link the activities to ongoing relevant initiatives such as INSTAC, EMODnet, EuroGOOS Ferrybax Task Team



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

Task leader: VLIZ (coordinator of EMONDET Biology)

Main objectives of the task

Main objectives of the task:

"Create an operational link with EMOCheet biology in order to facilitate the data exchange be tween existing marine biological data networks and data generated by the project. This data exchange will also facilitate data occess in order to collibrate or compare the data collected during the project. Asset of specialized quality control procedures will be developed - due to the very diverse nature of biological data - in callaboration with the EMOCheet and OBIS network to - check the quality and completeness of the submitted data and detect (possible) errors.

- assign quality flags that can help in selecting data that are fit for their use and purpose.

Partners involved: HCMR, Ifremer, SOCIB, SYKE, SMHI

Interfaces with other WP's: WP4, WP6 and WP8



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

Main activities:

- Providing tools and services for extraction of comparative biological background data based on EMDONet biology data resources
 Providing tools and services for performing quality control of biological data gathered within IRRO-NEXT, Tools are built within the Lifewatch ESFRI Online interface available at http://www.lifewatch.be/data-services)
 Harmonization, integration and townomic & geographic standardization of biological sample and sensor data, generated by project (will be applied also on WP4 IRAP1 and IRAP2).
 Harmonization of pelpois observations for example called with those custometers.
- Homonization of pelogic abservations (for example callected by flow cytometer).
 Homonization of benthic abservations (for example data from the French environmental).
- database, Quadrige2).

Deliverables:

D5.4 Report on Quality Control Steps of marine biological data management (M12)
M5.2 Automated quality control services operational + handbook (M24)
D5.5 Document describing the biological data from JERICO-NEXT that are available

and quality controlled (M48)



Task 5.3 Platform registration and metadata management system (M1-M44)

Task leader: Ifremer

Mean objectives at the least.

Necessity to improve the management process of the metadata of the deployed observatories. This weakness has been highlighted during the SepOutanet and MyOcean projects. We propose to give a major rate to the abservatory operators in managing the

merciousa. Dedicated interfaces will be implemented in order to allow aperators to describe their Instrument, to manitor them in real-time, to publish and to advertise the work of data acquisition. Providing these metadato publishing tooks will also greatly facilitated discovery, visualization and downloading fully INSPRE compatible services. We will take into account and will be consistent with after experiment for industry sensors such as http://www.sersorcloud.com. The standards (Sensor Web Enablement –SWE) already implemented in other projects (SeaDatoNet, ODIP & JERICO) will be used

Partners involved: IFREMER, MARIS, HCMR, OGS, CNR-ISMAR, ETT, HZG

Interfaces with other WP's: WP4, WP6 and WP8



Task 5.3 Platform registration and metadata management system (M1-M44)

Main activities:

observation retiversity.

Define and prioritize with the targeted observatory network operators the services to be developed: artaingestion mode, specific events editions (deployments, calibrations, ...), oterts on data availability and thresholds, monitoring dashboards, other publication facilities such

systems of Capernicus and SeadataNet

Deliverables

D.S.9 Requirements specifications for the abservatory operator console (M.16)

D.S.7 Definition of SWE templates for the targeted abservatory networks (M.24)

D.S.8 Assessment of the reached-prinsed of paper requirements (M.44)

MS 49 Console with care services for abservatory aperators and automated

publication towards data management systems (M32)
MS 50 Cansole with specific services for targeted observatory network operators

MS 51 Modules for data Quality Check, including WPS service (MSb)



Task 5.4 Interoperable data flow from in situ measurements to archiving in data centers (M1-M42)

Task leader: CNR-ISMAR

One of the preliminary of tions identified to pull resources and infrastructures together is the provision of information on instruments, plotforms, doto transmission procedures, quality assurance and quality control to assign o degree of confidence to data. Pracedures will be established on the base of the international agreed policies and standards (e.g. IOC, ICES,

Partners involved: Ifremer, SOCIB, HCMR, SMHI, SYKE, ETT, HZG, VLIZ, AZTI

Interfaces with other WP's: WP4, WP6 and WP8

JERICO-Bert - Rich-Off war bro - Bert



Task 5.4 Interoperable data flow from in situ measurements to archiving in data centers (M1-M42)

Main activities:

is have been defined to assure basic interoperability for a multidisciplinary -

- nee deaths have been defined to assure dash, interoperating on a manuscipinary multiplatform data collection:

 Define common best practice concepts (quality assurance and quality control) to guarantee metadata completeness and data quality (together with 5.3, 5.5, 5.6, and 5.7).

 Metadata definition and management to include physical, chemical and biological
- Review data flow from the already existing European infrastructures to JERICO-NEXT.
- neview data flow from the diready existing burgbean infrostructures to JERICO-MEXT.
 Establishment of standardized data management procedures and data flow from real-time to validated datasets via interoperable infrastructure and different QC time points (according to the nature of the parameter, i.e., physical, chemical or biological).
 Harmonization of quality control procedures for axygen and other biogeochemical sensors with SCOR WG 142.

D5.9 Report on data management best practices and Generic Data and Metadata

D5.10 Report on harmonisation with SCOR WGs (M36)

Task 5.5 Enhancement of Quality Control procedures for

Main activities:

An open source software for QC-control, the FerryBox Toolbox, will be further developed and modified to also include data from fixed platforms

The case studies in WP4 will be used to illustrate data flows, especially the one on pelagic biodiversity (WP4.1) and the one on carbon flows and the carbonate system (WP4.5)

sensor based biochemical data (M1-M40)

Further tuning is foreseen for the QC applied on the physical parameters (temperature and salinity) regarding the QC ranges or accepted gradients specific to the coastal areas, due to the particular time/space variability. Results on harmonization activities from WP2 will be taken into account. The IRAPS (WP4) will be used to illustrate data flows, sepcially the one on pelogic biodiversity (JRPA1) and the one on carbon flows and the carbonate system. (IRAP2)

Deliverables:

D5.11 Best practices for quality control of sensor based blochemical data (M24) D5.12 Software for QC of biochemical data from FerryBox and fixed platforms (M40)



Task 5.5 Enhancement of Quality Control procedures for sensor based biochemical data (M1-M40)

Task leader: SMHI

Main objectives of the task:

Establishment of procedures or best practices for the Quality Control procedures that are applied on biochemical data recorded by sensors attached to the existing platforms, both in real-time and delayed-mode. These practices should also take also into account the constraints that are imposed by the platform used for the collection of such kind of data (ferry

Partners involved: SMHI, NIVA, HZG, IFREMER, SOCIB, HCMR, SYKE, OGS

Interfaces with other WP's: WP4, WP6 and WP8



Task 5.6 Definition of Quality Control procedures for HF Radar data, (M1-M42)

Task leader: AZTI

Main objectives of the task:

Main objectives of the task: hietparded HF rodor networks providing real-time information with unified quality control have been aperating in the United States (US-1005, http://www.loas.noao.gov/hfrodory) and in Australia (ACORN, http://www.ees.jcu.edu.ou/acom/), providing key information for scientific and societal needs. In Europe, although some countries have started to implement operational HF rodor systems in the coastal area, a unified HF coastal rador network has not been implemented yet, not the parameters observed and derived from HF rodors have been part of the main European IOOS projects such as Caperplicus and MyOcean2

Partners involved: AZTI, SOCIB, HCMR, HZG, SMHI, CNRS, EUROGOOS, ETT

Interfaces with other WP's: WP4, WP6 and WP8



Task 5.6 Definition of Quality Control procedures for HF Radar data. (M1-M42)

Main activities:

Main activities:

**Dota model

Standardisation

Offerent levels of data products:

Quality controlled radial currents plus error (Level 1)

Graded total vector velocities (Level 2)

Objective analysis of graded surface current maps (Level 3)

Suitable temporal (hourly, daily...) and spatial (grids) scales for the provided data need to be defined.

· Quality Contro

Standardized QC procedure at European level will be defined for the coordinated implementation of delayed-made and near real time HF Rodor data access. Two steps:

 Recovering outputs from the hormanization task performed in WP2, task 2.3. 2. Including Jaint Research Activities performed in Task 3.2 of WP3.

lation Report 1 for HFR data implementation in European rastructures (M16)

DS.14 Recommendation Report 2 for HFR data implementation in European infransuctures (M36)

JERICO-Bert - Kick-Offweeling - Bull-on.

Task 5.7 Scientific calibration procedures on glider data collection (M1-M40)

Task leader: SOCIB

Main objectives of the task:

The spatial and temporal resolutions of coastal data and their quality are of crucial impartance to adequately respand to scientific and societal challenges. Accordingly, to validate these data for analysis, several well-established procedures should be applied during, and after every mission.

Now that multi-platform observations are more and more common, it is essential that collibration and inter-collibration procedures are routinely included in the validation process. Also important is the analysis and correction of lang-term sensor drifts using a careful comparison with measurements of equired by other platforms and instruments in the same region, during a sensibly common period.

Partners involved: SOCIB, CNRS, HCMR

Interfaces with other WP's: WP4, WP6 and WP8

JERICO-Bert - Nich-Offmerling - Hallores



Task 5.7 Scientific calibration procedures on glider data collection (M1-M40)

Main activities:

This task specially focuses on post-mission calibration of glider CTD data (referred to as scientific calibration]: while the scientific calibration procedure is already established for Argo profilers, it still has to be standardized for gliders, information concerning the calibration recorded in the metadata file, creation of the corresponding adjusted/completely calibrated variables and assignment of their associated error. The archival of delayed-mode calibrated glider data is another problem to address. The information required in the file metadata has to be precisely defined in order to guarantee the traceability of the processing.

D5.15 Guideline for the calibration of glider data (M36)

WP 5

JERICO Need - Hick Off meeting - Mallorea



Task 5.8 Linking JERICO-NEXT activities to a Virtual Access Infrastructure (M1 - M18)

Task leader: Euro GOOS

Main objectives of the task:

An extended review of the existing plotforms Virtual Access plotform and technologies and to address in what extend they can support the JERICO-NEXT activities.

7.5.8 will callect info on in situ monitoring (abservations) and numerical modelling (forecasts) infrastructures for the cost of zone, will perform homogenization activities for a more efficient data flown will define the intercannection and necessary background for building synthetic products vio VA systems.

Partners involved: EuroGOOS, ETT, MARIS, HCMR, Ifremer

Interfaces with other WP's: WP6

Deliverables:

D5.15 Guideline for the calibration of glider data (M18)



WP5: Data management

Monitoring the WP implementation progress

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



WP5: Data management

Summary of activities (WP in numbers)

- · 16 deliverables
- 5 Milestones (mainly software deliveries)
- · 4 Dedicated WP progress meetings besides the scheduled project's Gas
- · 3 meetings of the Data Management Committee

WP 5



WP5: Data management

Possible Risks, Gaps and Suggestion

- 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,
- 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
 SDN network will be used for delayed mode/archiving

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, SOCIB, 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 web site), 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 though 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 measure uptake of your VA
- •Recommendations on how 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

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

Summary of VA Services

- •Final list of VA services from the proposal
- •Julien Mader BHFR
- •Annalisa Griffa, Marcello Magaldi LiSO
- •Mousseau EOL
- •Antoine Gremare: SPI-S
- •Joaquin Tintore: SOCIB
- •Lauri Laakso Utö Atmospheric and Marine Research Station
- •Lperiv Poseidon
- •Willi Peterson COSYNA
- •Joao Vitorino MONICAN
- Palazov MONOS
- •Kai Sorensen NorFerry
- •Kai Sorensen NIVA Research Station
- •Bengt Karlson SMHI MOS
- •Jukka Seppala Algaline
- •David Mills EMECO Jerico Datatool
- •Guillaume Charria Eulerian observatory network data service

8) WP7 – Transnational access to coastal observatories (S.Sparnocchia – CNR-ISMAR)

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

Jerko-Next - Kkk-Off meeting - Mallarca



Main objectives of the WP & List of partners

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

13 PARTNERS: CNR ISMAR (coord), CNRS, FMI, HCMR, HZG, Ifremer, IMR, IO-BAS, NIVA, SMARTBAY, SOCIB, SYKE, UPC (-IRIS retired)

35 INSTALLATIONS/INFRASTRUCTURES: 30 in Chapter 1 (Observing systems) + 5 in Chapter 2 (Supporting facilities and specialized equipment)

WP7: Trans National Access

Janko-Next - Kick-Off meeting - Mallorca







Tasks and interfaces with other WPs

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

Main tasks:

- 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)
- To manage the evaluation of the submitted proposals and publish results in the website (WP8)
 To support users and facilities operators with access
- implementation, reporting and dissemination and publish results in the website (WP7&WP8)

WP7: Trens National Access

Herico-Next - Nick-Off meeting - Ataliance

TNA panels/teams (named at the kick-off meeting) TNA Office Selection Panel Independent experts Involved in the evolution of users preposals. (Idiso STAC) Interest Proceedings (Idiso STAC) Interest Processing (Idiso STAC) Interest Interes

WP7: Trans National Access

HING-NEXT - Rick-Off meeting - Intollarce



TNA - Concepts and Definitions 1/3

Access to an infrastructure is provided to an user/user group to test an

Unit access (UA): day, week, month ...

Access period; the time the user actually uses an infrastructure/facility

Modality of access (MoA)

MoA 1: Remote
MoA 2: In person/hands-on
MoA 3: Partially remote

Support offered to users:

- By the facility operators: Scientific, technical and logistic support
- during measurement campaigns, including any special training.

 By JERICO NEXT: A contribution to travel and subsistence costs for selected users and shipping of their equipment.

WP7: Trans National Access

Jerico-Mext - Kick-Off meeting - Mallorca



TNA - Concepts and Definitions 2/3

Outreach to new users:

- JERICO-NEXT will organize 3 calls to engage new users.

 Wide promotion of the access opportunity through the web, mailing lists and through other public access media.

Review and selection:

- Preliminary screening by each relevant provider for technical feasibility. Results will be communicated to the Selection Panel (SP). The SP will evaluate submitted proposals and select those for funding on the basis of scientific excellence, innovation and impacts for the
- Priority to new users and users coming from countries where such infrastructure is not available.

WP7: Trans National Access

renko-ment – 10k k-0/f meeting - Intalkonsa

TNA - Concepts and Definitions 3/3

Access Costs

TA-UC: costs declared by beneficiaries on the basis of unit costs calculated on the basis of their historical data anticolarman stoke access costs to the exhausterious costs of the ex

CALCULATED OVER THE HISTORICAL DATA OF LAST 2 CLOSED FINANCIAL YEARS (years N-1 and N-2)

TA-AC: Actual costs, costs actually and solely incurred for providing access to the user groups selected for support under the action

TA-CB: costs declared by beneficiaries on the basis of a combination of the forms of costs referred above

Modality used by each partners is indicated in the DoA

When several user groups share the installation, the unit cost will be shared accordingly (this applies to TA-UC and TA-CB/UC part)

[Ref. Commission Decision C(2013)8199]

WP7: Trans National Access Aerico-Mest - Mick-Off meeting - Ata



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

Work package number Work package title Lead Beneficiar	7 Start Month 1 TNA1 – Trans National Access to Coastal Observatories CNR-ISMAR		End Month Type of activity		48 TNA		
Participant number Short name of participant Person-months per participant:	S CNR ISMAR 3.9	7 CNRS	FMI FMI	HCMR 5.5	15 HZG 10.66	themer 5	IMR
Participant number	18	19	22	26	28	29	3
Short name of participant Person-months per participant	BAS 8	RIS	NIVA 53	SMART BAY 2.84	SOCIB	SYKE 4	UPC

4	Actual costs calculation arrangery of staff Its	Umpun
de en en en	Tecs DG CO enginery Assetting BC-ROCerpone Constraint Central Straintainings	
90		

and will be reported solely if access will be provided through the TNA procedure

IVP7: Trans National Access

Jerico-Next = Hick-Off me eting - Maßoron



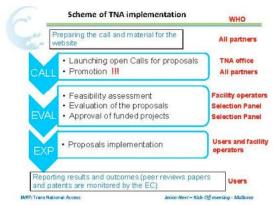
TNA - Eligibility of user groups

- The user group leader and the majority of the users must work in a country other than the country(les) 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 20% of the total amount of units of access provided under the grant.

 NEW III
- Only user groups that will disseminate the results they have generated under the action may benefit from the access, unit the users are working for SMES (NEW III).

[Ref. Article 16 of the Grant Agreement]

Jerico-Next - Kick-Off meeting - Idailorca





Deliverables and Milestones (ref DOA) - WP7 & WP8

Date		Deli verable / Milestone
MB	April 2016	D8.9 Rules and procedure for TNA
M9	May 2016	07.1 Description of facilities participating to the TNA program MS53 Infrastructure available for users (WP7) MS57 First TNA Call published on website (WP8)
M21	May 2017	MS58 Second TNA Call published on website (WP8)
MZ4	August 2017	D8.10 Technical and scientific advancements of TNA program
M30	February 2018	D7.2 Trans National Access Provision V1
M32	April 2018	MS59 Third TNA Call published on website (WP8)
M47	July 2019	DB.11 Final report on TNA program
M4B	August 2019	D7.3 Trans National Access Provision V2

WF7: Trans National Access

arko-Next - Rick-Off meeting - Asallorce

18 months agenda (WP7 + WP8)

Date	Action	Who	
30/09/2015	First TNA operators meeting: General organization and next actions	TNA partners	
01/10/2015 (KOM)	Establishment of Selection Panel, TNA management team and TNA CETics	Consortium	
11/2015-04/2016	Drafting of D8.9 Rules & procedures for TNA	CNR & TNA management team TNA partners (last revision)	
03-05/2016 Drafting of D7.1 Description of facilities		CNR & TNA partners	
02/05/2016 First TNA Call published on website (Monday)		CNR & BL	
20/06/2016 First TNA Call deadline (possible extension to (Monday) 11/07/2016)		CNR	
31/08/2016 End of evaluation First TNA Call		SP	
09/2016	Selection Panel meeting - First Call	SP, TNA management team	
IO-12/2016 Feed back to applicants Preparation and signature of END user agreements		CNR, Ifremer Ifremer, Users, Operators	
02/2017	Second TNA operators meeting at the Intermediate GA: Status of the 1st Call, actions for the 2nd Call	TNA partners	

WET Trees National Arress

Jerko-Next - Mck-Off meeting - Mallarca

The TNA experience in JERICO 1





Number of submitted proposals per facility

N. of facilities with no request: 7 (35%)



Jerico-Next = Kick-Off meeting - Malkora

JERICO NEXT vs JERICO 1

	JERICO (22/02/2011)	JERICO amendment (23/08/2014)	JERICO reported	JERICO NEXT
N. of facilities	20	14	13	36
Access (days)	1543	1921	2670	4293
TNA budget (access acsts)	471,820€	446,838€	475490 €	1,299,356 €
Users budget (including SP travels)	80,000€	80,000€	52,539€	200,000€

W97: Trans National Access

Jerico-Next = Mick-Off meeting - Midliorea

C

Risks and gaps - Recommendations to partners

Risks / gaps problems:

- Lack of engagement by users Mitigation measure: Move access application from an for a specific infrastructure equivalent over-booked infrastructure
- Withdrawal/Unavailableness Mitigation measure: Move access application to an of an infrastructure in due time equivalent infrastructure
- Delay in feasibility assessment Mitigation measure: Move access application to an by a facility operator (very equivalent infrastructure or postpone bad for the evaluation timing!) its evaluation to the next call

WF7: Trans National Access

Ark o-Next - Kk k-Off meeting - MaBarca

JERICO NEXT TNA Observatories and facilities

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





WP8: Outreach, Communication & Engagement

Simon Keeble | Blue Lobster David Mills | Cefas

28th September to 2th October 2015



Main objectives

The WP aim is to increase understanding of the importance and maximise 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 create an end-user panel for engagement and fostering 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 best possible uptake of new knowledge and evidence.
 To enhance European capacity building in operational marine sciences. (through training).
- To maximise JERICO NEXT international impact.
- To promote the potential of Coastal Observatories to support ocean science technological development through Transnational Access.
- To design, launch, maintain and host the JERICO-NEXT website with integrated communication portals for disseminating relevant data, information and project products and services.



12 Partners

BLIT (Lead) Ifremer Cefas (Co-lead) CNR-ISMAR Deltares ETT HCMR MI SLR SOCIB SYKE UOM



Task 8.1: Create a channel for 2-way communication with user groups (M1-M12)

UOM (Lead), Cefas, Blue Lobster, SOCIB, Ifremer

- To create a channel for user group engagement in co-production of knowledge and to provide feedback for the following, but not limited to, the following user groups: public, policy, research, education and operational communities including industry

 To better understand the requirements of the user groups and improve the effectiveness of communication strategies and increasing societal

WPB



Task 8.1: Create a channel for 2-way communication with user groups (M1-M12)

Approach:

- · Create a panel of end-user representatives for each societal benefit area. Panel members selected through 'An expression of interest call'.
- . Establish terms of reference for the end-user panel that foster 2-way communication.
- Engage with the end-panel members individually and collectively to improve understanding of requirements and seek feedback on key communication strategies to promote uptake of JERICO-NEXT products and services.
- · Based on feedback amend specifications for key communication strategies.
- Hold annual meetings of the panel supplemented with ad-hoc communication between meetings.



Task 8.2: Inform and engage stakeholders and public user groups (M12-M48)

Partners:

Blue Lobster (Lead), Cefas, SOCIB, Ifremer

Purpose: To communicate targeted knowledge and engage society.

WPE

JERICO Rest - Non-Ottone Ing - Ballance

C

Task 8.2: Inform and engage stakeholders and public user groups (M12-M48)

Approach

- Provide current and accurate information from JERICO-NEXT 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 visualisation products that inform and engage on topics of priority to society.
- Identify, with the end-user panel, effective dissemination mechanisms (e.g. Project Website, Links with National Aquariums, Factsheets, YouTube, Social Media) and implement.
- Communicate through links with international newspapers in French and English using the Alphagailleo platform to reach European journalists. The articles will be reported in the dissemination plan.
- Develop the necessary educational material to update "Follow the Glider" web content (SOCIB).

WP 8

EDICO Mad. Mad. Officeration Mattern



JERCIO-NEXTWP-8
WP TITLE: Outreach
SUBTASK 8.2 -SOCIB
Inform and engage stakeholders and public users group:
Develop the necessary educational material to update "Follow
The Gister" web content.

WFS

www.followtheglider.com

SPICO Just - Elsk Of anning - Bullerur



"Follow the Glider" is a WEB application adapted for kids, based on SOCIB's technology that allows quasi real-time glider monitoring.

WP8

JERICO-Med - Mck-OH meding - Mallorea



Task 8.3: Inform and engage research and policy endusers (M1-M48)

Partners:

Cefas (Lead), Blue Lobster, Deltares, Ifremer, SOCIB

Purpose: To communicate new scientific knowledge derived from JERICO-NEXT to maximise societal benefit in policy, research and operational (including industry) sectors and to promote uptake of Trans National and Mittal Acres Society.



Task 8.3: Inform and engage research and policy end-

Approach

- Provide current and accurate information from JERICO-NEXT partners about data and projects for the website for targeted professional endusers.
- Collaborate with the end-user panel (T8.1) to identify a number of JERICO-NEXT unique outputs, and produce up to 3 compelling visualisations that inform and engage professional end-users.
- inform and engage professional end-users.

 Work with the panel (TS.1) to identify effective dissemination mechanisms (e.g. Project Website, Links with Professional user groups, Science Exhibitions and Events, Social Media).
- Work with WP 6 and 7 through TB.8 & 8.9 to raise awareness of Virtual Access and TNA facilities and promote broader societal, educational and professional engagement.

WPB

IE1000-Held - IOch-Off weeking - Bellevile

WPS

JERICO-Rest - Web-Offmeeting - Metions



Task 8.4: Inform and engage industry (M1-M48)

Partners:

SLR Consulting (Lead), MI, Cefas

Purpose: To establish links and credibility with industry.



Task 8.4: Inform and engage industry (M1-M48)

Approach

Approach
Build on the results of, and extend, the Forum for Coastal Technologies. Industry
members of the user group (DB.1) with members of JERCO-NEXT will be the core of a
cluster of expertise in coastal environmental monitoring. The cluster will provide
equipment and sensor development to address gaps in the suste of environmental
monitoring techniques required to meet new regulatory standards.

Agree cluster membership and invite participants (including government agencies).

- Three workshops on new coastal environmental monitoring technologies focusing on prioritising future investment and as a result —
- Set up a Knowledge Transfer Network (KTN) for coastal environmental monitoring, Promote JERICO Community Hubamongst EU government agencies with a view to having government act as "intelligent lead customers" in sourcing innovative technologies,
 Provide a "Tender Watch" service to the JERICO community.



Task 8.5: Enhance European human capacity building in operational marine sciences (Engaging with Education) (M1-M48)

Partners:

UOM (Lead), Cefas, Deltares

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



Task 8.5: Enhance European human capacity building in operational marine sciences (Engaging with Education) (M1-M48)

Approach

- Training and educational needs analysis for future operational marine scientists,
- Hold two summer schools: (i) Operational tools for biogeochemical and ecological measurements UOM / CEFAS & (ii) Virtual Environmental Coastal Observatory: from virtual access to knowledge creation DELTARES (in collaboration with WP6). Maximise summer school uptake through live web-casting.
- Develop university level course material in conjunction with university partners. MOOC - Massive Open Online Course (Coursera / Edx etc.)
- Publicise and make relevant material from training courses and university course material available through JERICO website and other Social Media.
- Provide funding and support for other JERICO partners to participate in the summer schools



Task 8.6: Sustain and develop JERICO-NEXT web presidissemination of products and knowledge (M1-M48)

Partners:

Blue Lobster, All partners and WP's to contribute content

Purpose: To update, sustain and further develop the JERICO web site as an information hub and data portal (T8.7) for outreach and dissemination of products, knowledge and data to key stakeholder user groups.



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

Approach

- Review the current JERICO web site. Revise the specification to meet new requirements.
- · Update the website to meet current standards and optimise performance, security and accessibility.
- Identify and prepare initial content. Upload initial content and launch the
- Design and launch a complementary Social Media campaign to support an effective, productive and informative dissemination / communication strategy.
- Provide access and links to JERICO products, documents and data.
- Provide access to project information, Virtual-SA products and services.
- . Maintain, host and update website and Social Media accounts with content, data and information.

WP8

JERNO-Red - Men-Offweeling - Beloves



Task 8.7: JERICO Data Portal (M1-M48)

Partners:

ETT (Lead), Blue Lobster, Ifremer

Purpose: To provide a Data Portal for access to JERICO Data and data visualisation





Task 8.7: JERICO Data Portal (M1-M48)

Approach

The JERICO-NEXT portal will be an overarching portal over the main infrastructures (i.e. ROOSs and network of NODCs) and involved systems. It will combine data into common inventory directory and web accessible

It will interoperate with the underlying infrastructure (see WP5) to give access to the distributed acquired data sets in real time, delay mode, as well as validated achieved data sets.

On top of the described infrastructure the JERICO-NEXT portal will offer added value services for machine-to-machine interoperability with other running projects and programs at European Level (e.g. MyOcean, SeaDataNet, EMODnet, Obis, etc.).

WPS



Task 8.8: Implementing Transnational Access to coastal observatories (M1-M48)

Partners:

CNR (Lead), HCMR Ifremer, SOCIB, SYKE

Purpose: Prepare and manage three calls for proposal to access to infrastructures in WP7 for academic and industry users. Work will be carried out in compliance with Article 16 of the Grant Agreement, and in particular with article 16.1 "Rules for providing trans-national access to research





Task 8.8: Implementing Transnational Access to coastal observatories [M1-M48]

- Approach

 Subtank 8.8.1 Setting procedures and teams for access provision (MI MIB)

 Review of the selection procedures and esclusion criteria statishished in JERICO (S.A. 262591);

 Define the Selection Principle's plin disputantle reports to involve in the selection of the proposals.

 Escalabshing the JERICO-NEDT THA Office based at CMB for proposals management.

 Escalabshing the TRA man agenist team contributing the selection process.

 Subtank 8.8.2. Orating and launching the calls, evaluation of proposals (M6 MIB)

 Publish three cals on the websites and adventise through scientific for and specialised mail lists.

 Implement the selection process. Selection contribution process of transport of the proposals of the proposals.

 Publish three distants is in mass and scientific ment. Meeting after each call for selection of proposals.

 Publish three healst inn process and maults on the project websites.

- proposals. Publish the avaluation process and massits on the project website.
 Publish the avaluation process and massits on the project website.
 Stack 3.2.3.2 Access implementation, reporting and dissemination (MIS MAT)

 On thing and substructions of agreements between providers and users defining rules and conditions for the securion of the access to the infrastructure, agreed work, program and schedule.
 Define and mightenest a reporting machanism for dissemination of six mitties and trachindogical TNA outcomes (web-arickles, user reports, list of publications and presentations).



Task 8.9 Coordinating WP6 Virtual Access (M1-M48)

Partners:

Cefas (Lead), Ifremer

Purpose: To coordinate the provision of access to Virtual Services identified WP6



Task 8.9 Coordinating WP6 Virtual Access (M1-M48)

Approach

- Promote use of services provided by the infrastructures through publicity working with T8.2 and T8.3
- Develop methods for periodic assessment of the services and definition of access statistics
- Set up a template for assessment that collects basic statistical information including: number of annual visits (e.g. to a web site), 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.

JEROCO-Rest - Nich Off weeding - Be



Deliverables

Task 8.1: D8.1: Formation of the user-group panel (M8)
Task 8.2: D8.2: Three visualisation products during the project to inform and engage public users (M48)

Task 8.3: D8.3: Visualisation products during the project to inform and engage professional users (M48)

(M48)

(M48)

Task 8-10-8-1 Final report on the three workshops, KTN and Tender Watch service (M40)

Task 8-10-8-5 Summer School 1 (M24) Deltrars Da.6 Summer School 2 (M36) UDM / CEFAS

Task 8-5 CB.5 Summer School 1 (M24) Deltrars Da.6 Summer School 2 (M36) UDM / CEFAS

Task 8-6-10-8-7; Launch of revised JERUCO-NEXT web presence, (M32) (Needed earlier for TNA)

Task 8-7: Da.8 Frontoping/demonstrator of the data portal and developed features (M5, M24, M42)

M42)

Task 8-8: Da.9 Rules and procedure for TNA - Document to report rules and procedures to implement the Trans National Access (M8)

Task 8-9: Da.1 Final report on TNA program - Document on Summaribe the scientific and value of the Comment of United States (M8)

Da.1: Final report on TNA program - Document to summaribe the scientific and technical results of the Trans National Access program (M47).

Da.1: Final report on TNA program - Document to summaribe the scientific and technical results of the Trans National Access program (M47).

Da.1: Final report of TNA program - Document to summaribe the scientific and technical results of the Trans National Access program (M47).

Da.1: Final report of TNA programs of Virtual Access to the international review panel (M24)

Da.1: Final report on Virtual Access (M8)

Actions for first 18 months

- M1 Task 8.8 - 1st TNA operators meeting for general organization (CNR-ISMAR)
- M6 D8.8 (ETT): JERICO Data Portal
- D8.1 (UOM): Establishment of end-user panel D8.9 (CNR-ISMAR): Rules & procedures for TNA D8.12 (CEFAS): Template for periodic assessments Task 8.8 MSS8: First TNA call (CNR-ISMAR) MB
- M9
- M10 Agree duster membership and plan KTN structure & function (SLR)
- M12* D8.7 (BLIT): Launch of revised JERICO-Next website
- Task 8.8: 2nd TNA operators meeting: status of the 1st TNA Call, actions for the $2^{\rm nd}$ Call (CNR-ISMAR)

* Needed around month 6 to work with data portal and ahead of TNA first JERCO-Rest - Date Office ling - Belong



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 WP8I

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, <u>especially at long-term scale</u> 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:

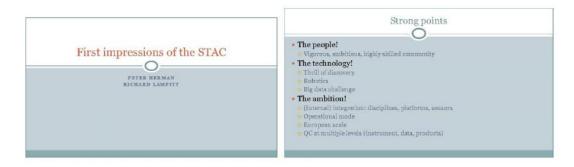
We should:

- 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 upscalling problems)

Modeling, Satellites are to be used because extrapolation from in situ coastal data is difficult in the coastal area.

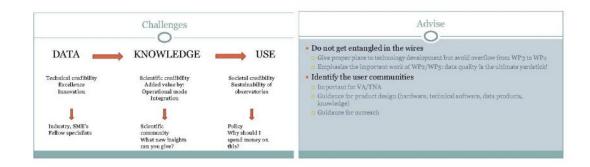
- d) Formalise products at # levels
- e) use open source software
- f) Contribute to the definition of essencial ocean variables (EOV) adapted to the coastal systems.
- g) Use best practices efforts to consolidate our experience
- h) Strengthen the links with other projects as Fix03, EMSO.

Slides presented by Peter Hermann









Advise Attract and incorporate external expertise Create Jerico extended family Use VA / TNA strategically for this Rediect on what will attract this expertise Focus JRAPs on 'useful knowledge production' Integration between disciplines Joint campaign(s) as test of integrability Evaluate each other's products in practice Extrapolate from points/lines to the coastal seascape Link with models, remote sensing Investigate upscaling problem

Link to modeling, also beyond physics Challenge to incorporate data richness in models Attract modelers with multidisciplinary data Formalize products at different levels: Level is raw data Level is raw data Level is climatologies Use open source software for level stepping Contribute to definition of EOVs: Essential Ocean Variables adapted for coastal systems

Use 'Best Practice' efforts as meant: consolidation of experience, also in other projects (FixO3,...) Data quarantine: compatible with operational system and demonstration of its usefulness? Consider costs and risks before deciding

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):

A3] Organisation of a WS on HF Radar and cabled coastal observatories in the European context.

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.