

MILESTONE N°16

GRANT N°: 871153
PROJECT ACRONYME : JERICO-S3
PROJECT NAME : Joint European Research Infrastructure for Coastal Observatories - Science, services, sustainability
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MILESTONE NAME: WP3 session including in ARW#5 individual IRS breakout sessions #5

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Involved Institution: NIVA, IRB, all WP3 partners, all WP lead partners

Date: 31.7.2024



→ Please specify the type of milestone:

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

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Document description

Document information	
Document Name	MS_JERICO_S3_Milestone_16
Document ID	JERICO-S3-WP3-MS16-31.07.2024-V1

<u>JERICO-S3 MILESTONE</u>	
Joint European Research Infrastructure network for Coastal Observatory Science, Services, Sustainability	
Milestones title	WP3 session including in ARW#5 individual IRS breakout sessions #5
Work Package Title	WP3
Milestones number	MS16
Description	The workshop was the final report of JERICO-S3 Integrated Regional Sites (IRS) implementation, which was held in combination with Pilot Supersites (PSS). The session highlighted integration stories and successes from IRSs at various levels (trans institutional, transnational, cross-IRS, PSS-IRS, multiplatform, RI-RI, industry collaboration, modelling, Ocean Colour, cross-KSC, interdisciplinary (e.g. phys/chem/biol), etc...). A panel discussion "breakout session" was also planned for addressing barriers, challenges, lessons learnt, and ways forward.
Lead beneficiary	NIVA
Lead Authors	Helene Frigstad & Andrew King (NIVA) Martin Pfannkuchen (IRB)
Contributors	All WP3 partners, All WP leads
Submitted by	31.07.2024
Revision history	V1 31.07.2024
Security	Consortium Only

Diffusion list				
Consortium	X			



beneficiaries				
Third parties				
Associated Partners				
other				

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GA SESSION 3 JERICO REGIONS RESULTS

June 19, 2024, 9:00 - 16:00, Brest

1. Scope of the workshop:

Workshop provides insight on the results obtained in JERICO-S3 regions, during implementation of Pilot Supersites (PSS) and Integrated Regional Sites (IRS). Sessions review the key findings and recommendations of PSSs and IRSs. Series of presentations illustrate the practical integrative work of JERICO-S3, at various levels (trans institutional, transnational, cross-PSS, PSS-IRS, multiplatform, RI-RI, industry collaboration, modelling, Ocean Colour, cross-KSC, interdisciplinary (e.g. phys/chem/biol), etc...). Panel discussion aims to elaborate, from PSS and IRS perspectives, which are the main requirements for future JERICO, what are the needs for additional regional and pan-European integration and what could be the role of Supersites or other structures in JERICO regionalisation and integration.

Main reference persons: (Organisers/leaders)

Jukka Seppälä, Costas Frangoulis, Andrew King, Helene Frigstad, Martin Pfannkuchen

2. Expected outcomes:

- Provide final report of WP3 work done, also included in D3.5
- Introduce a Region approach within JERICO, with practical demonstrations from PSS and IRS
- Provide main aims of the Region approach, including information on key deliverables, lessons learnt and recommendations for future work, especially for ESFRI application
- Discuss the requirements for future JERICO, the needs for additional regional and pan-European integration, and the role of Supersites or other structures within JERICO

3. Targeted audience:

Whole JERICO-S3 community

4. Agenda:

#	Description	Leading person	Link
1, Duration 1'30 h 9:00-10:30	<p>3.0 JERICO-S3 GA - SESSION 3 THE IMPLEMENTATION OF INTEGRATED COASTAL OBSERVATION</p> <p><u>9:00-9:30 Introduction for Region approach within JERICO</u></p> <ul style="list-style-type: none"> • Lessons learned, recommendations, key- deliverables from IRS and PSS <p>3.1 INTEGRATED COASTAL OBSERVATION-SESSION JERICO-REGIONS, Scientific results, KSCs etc. IRsS & PSSs</p> <p><u>9:30-10:30 Integration stories</u></p> <p>Studies on carbonate system (60' total)</p>	<p>Session lead Costas Frangoulis</p> <p>Jukka Seppälä, Helene Frigstad</p> <p>Laurent Coppola, Costas Frangoulis, Kostas Tsiaras, Martti Honkanen, Andrew King</p>	<p>3.0 Introduction</p> <p>Presentation 3.1.1</p>
2, Duration 1'30h 11:00- 12:30	<p><u>11:00-12:30 Integration stories</u></p> <p>Studies on phytoplankton (60' total)</p>	<p>Session lead Martin Pfannkuchen</p> <p>Felipe Artigas, Jukka Seppälä, Bengt Karlson, Behzad Mostajir,</p>	<p>Presentation 3.1.2</p>

	Connecting other RIs and stakeholders (30' in total)	Melilotus Thyssen, Holger Brix Fabio Brunetti, Lisette Enserink, Holger Brix	Presentation 3.1.3
3. Duration 2'00h 14:00-16:00	<u>14:00-15:00 Integration stories from PSS</u> Integration of observations and detection of events (60' in total) 15:00-16:00 Panel discussion for IRS and PSS: Summary from each thematic session on: -requirements for future JERICO -need for additional regional and pan-European integration -Role of supersites or other structures within JERICO	Session lead Helene/Andrew Anouk Blauw, Natalia Stamataki, Anna Rubio, Joao Vitorino, Taavi Liblik, PSS and IRS leads who are present, facilitated by Costas Frangoulis & Andrew/Helene	Presentation 3.1.4 Presentation 3.2

5. Type of organisation:

Type of session: Plenary session (P)

Main reference persons: (Organisers/leaders)

Helene Frigstad & Andrew King (NIVA), Martin Pfannkuchen (IRB)

6. Attendees:

https://docs.google.com/spreadsheets/d/1Pk1dCkzhVZE3sPsDjiR0blPe47_4CAsGfuflAgXBkCU/edit?gid=2038319511#gid=2038319511

7. Slides presented during the meeting:

See agenda, or a folder for all presentations

https://drive.google.com/drive/folders/1qmKVZVidR-4_x6AX9Fz-Ic_GgDnUZVfx

8. Discussion

The discussion points recorded were for the entire ARW#5 session which included presentations from IRSs and PSSs:

1st presentation - Jukka



Joaquin: Reco for PSS are very important, one of the strength of JERICO; I wanted to stress out that they are essential to address issues even though we have had some drawbacks; we want resources to be dedicated to that

Jukka: Hard to explore other systems without having the structure; what we did was exploratory to see if this is the good way forward

Jos: I don't see the word 'network' anywhere; is that intended ? DANUBIUS is presented as a network and we do networking activities

Jukka: Networking is not enough; within the RI it has its place but we cannot rely entirely on it

Jack: Are you interacting with the numerical modelling community ?

Costas: Yes we are, modelling teams were directly involved in the use of data collected

Laurent D: it's feasible to optimise this integrated platform

2nd presentation - Costas F.

Joao (?): How do you plan to integrate AI ?

Laurent C: we are aiming for neural networks, but there is still work to do

3rd presentation - Costas T.

Joaquin: This last slide is quite important; shows the effort we have to do in facilitating integration

4th presentation - Martti

Helene: Have you been sampling for organic gradients ?

Martti: We investigated the salinity gradient but not the organic content

5th presentation - Andrew

Alan: The differentiation and the synergies between JERICO and ICOS are very important, thanks for emphasising this

Bengt's presentation

Véronique: We work with EcoTaxa in JERICO; we talked about a pipeline for the IFCB for EcoTaxa; will you continue to collaborate with EcoTaxa ?

Jens: Images from different sensors may need a different treatment; it will take years before we find a standard

Andrew: Experiments are based on observational data; do we have enough data to correctly assess changes ? (When we have a threshold how to assess)



Behzad: We should aim for missing data and processes ; hence why Jukka and Costas showed the results of their own experiment; we should combine experimentations and observations

Jukka: Agreed, what we determine with experiments can set what we want to observe and how during subsequent observations; the coupling goes into area

Martin: We try also to cover the whole ecosystem; the cytosense for example can do both autotrophic and heterotrophic samples

Jens: given the complexity of this kind of system, we really need a good overview of the whole trophic chain; if we miss a step, we might not understand the bigger picture

Véronique: are you going to share the results with the company?

Jukka: we maintain communication, but not strategically steered, kind of random; we would need to be more pro-active in terms of communication with companies

Lisette's presentation

Inga: What's the platform catalog ?

Peter: Not meant to give a complete overview; data from all platforms flow into the EU aggregators (INSTAC, SeaDataNet, Eurobis, EMODNET), as defined in our DMP; that's what we promote, we don't actually want an exhaustive catalogue with all observation platforms, but only the ones as indicated by the representatives to be part of JERICO (which is interpreted differently between partners and therefore for one country many are available, others only few). Conclusion: Best way to find the data from platforms is via the aggregators.

Urmas: This does not go in accordance with HELCOM; we have the data but people from other countries actually DON'T WANT to use it ! We try to have them understand the usefulness; but communication on the data is not the issue for us here

Lisette: Having an understanding of the problem and then coming out with a solution is the main issue; a 'policy push' happens when a problem arises and then things move

Holger's presentation

Jun: Interactions with stakeholders is very important; the sustainability of JERICO depends on that; we need to make the transition from research to operational too. Discussion between GOOS and JERICO could mean an easier transfer/acceptance by all the institutes of the network

Anna's presentation

Joao: Do you have a strategy to have the bathymetry data quickly ?

Anna: Yes we can estimate bathymetry from the models, then adjust it when we have in-situ data.