Interactive Workshop

Harmonizing KPIs and approaches to support development of joint Mission Ocean and Waters monitoring framework

When and Where

Date: Monday, 3 March 2025 Time: 1.30 h, 2 pm – 3.30 pm Venue: Charlemagne Building

This Workshop is planned as part of the European Ocean Days 2025 Match-Making event. Please find more information in the following link: European Ocean Days - European Commission

What's in it for You?

By participating, you'll gain firsthand insights into KPIs and monitoring strategies tailored to Mission Ocean objectives. You'll also ensure your project benefits from the latest methodologies, including PESTEL analysis and the Theory of Change (TOC)/Impact Pathway (IP) framework, designed to harmonize monitoring efforts across the lighthouse areas.

Outcome:

Co-created solutions for harmonized KPIs and monitoring approaches across all Mission Ocean areas, enabling Innovation Actions to enhance their impact while contributing to a collective European effort.



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Interactive Workshop

Harmonizing KPIs and approaches to support development of joint Mission Ocean and Waters monitoring framework









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WELCOME

Caecilia Managò,

ERINN Innovation

PREP4BLUE

"Wheels to drive the 2nd implementation phase of the Mission, after 2025"







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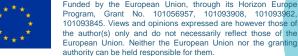


AGENDA for the coming hour

- 1. Welcome & Workshop Introduction, Caecilia Managò (P4B)
- Conceptual Framework Harald Hasler-Sheetal (BMAA, BMB)
- 3. Overview of Monitoring Approaches Per Lighthouse & CSA; Harald Hasler-Sheetal, BlueMissionAA (BMAA), Lotta Purkamo, BlueMissionBANOS (BMBANOS), Nikos Streftaris, BlueMissionMED (BMMED), Caecilia Managò PREP4BLUE (P4B)
- 4. Challenges in KPI Identification, Implementation & Scalability, Nikos Streftaris (BMMED); Panelists: Representatives from Mission Projects
- 5. Mission Ocean Monitoring Implementation & Measuring Impact, Jacques Delsalle (European Commission)
- 6. Ensuring KPI Adoption & Integration into Mission Projects, Lisa Waldenberger (EcoDaLLi): Panelists: Representatives from Mission Projects
- 7. Summary & Closing Remarks











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Conceptual framework: Using PESTEL & Pathways to Impact & Theory of Change (ToC/Ptol) for Monitoring & KPI harmonization

Harald Hasler-Sheetal, BMAA, BMB, (ICES)



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Why are we here?

The Mission Ocean & Waters programme requires harmonized monitoring & indicators across projects (and time).

Current KPIs vary between projects and need **alignment** for meaningful impact assessment.

Every of the <40 funded projects (EUR 242M) **demonstrates measurable progress.**

Without alignment, fragmentation weakens comparability & scalability.

How can we structure monitoring frameworks and indicators across lighthouses and projects for better comparability?







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Mission Implementation and Impact Logic

Mission Ocean sets clear objectives, expected outcomes & impacts Restore our ocean and Mission objective waters by 2030 Protect and restore marine Prevent and eliminate Make sustainable Blue Economy Specific objectives and freshwater ecosystems pollution carbon neutral and circlar and biodiversity EU-wide Blue Atlantic and Baltic & North Danube river Mediterranean Cross-cutting enablers: Arctic coast sea basin basin sea basin lighthouse conservation lighthouse lighthouse Digital ocean and water lighthouse Outputs cross-Mission actions knowledge system Public mobilisation and Scale up projects throughout our sea and river basins engagement Impacts Improvement and widening of the network of marine protected areas in the EU (30% of EU's seas protected, with integrated ecological corridors and 10% of EU's seas areas strictly protected) At least 25 000km of restored free flowing rivers @ Restored marine and coastal ecosystems in line with the upcoming EU Nature Restoration targets. Reduction by 50% of the plastic at the sea and by 30% micro-plastics released into the environment Reduction by 50% of nutrient losses and the risk and use of chemical pesticides and reduction of water pollution from Reduction of Blue Economy's greenhouse gas emissions by at least 50% and towards 55% compared to 1990 levels Circular low carbon use of marine space and sustainable aquaculture

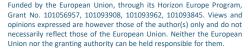


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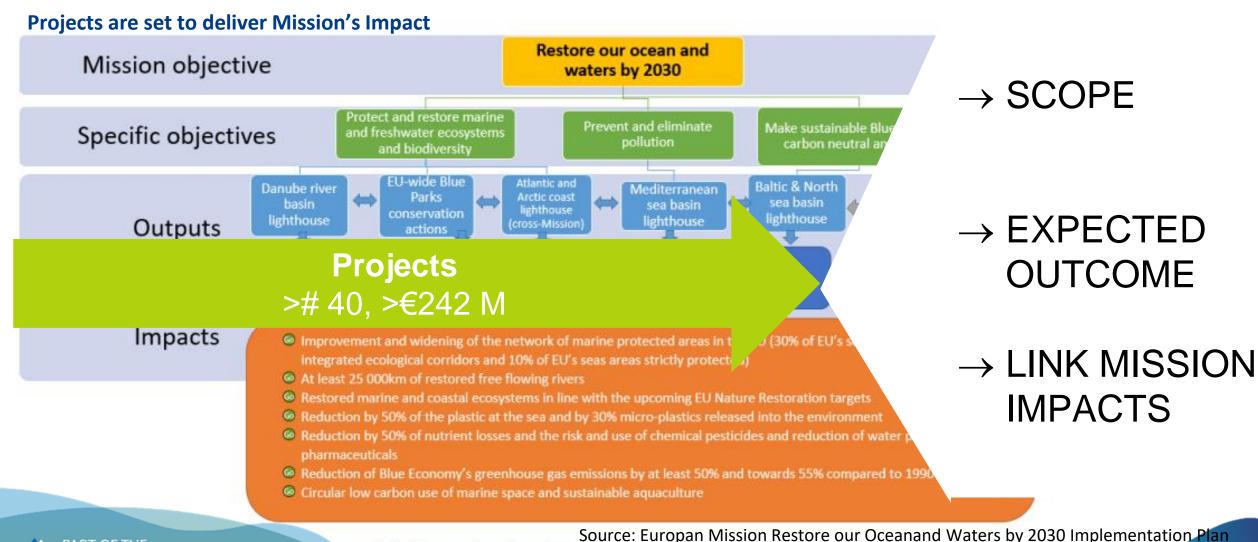






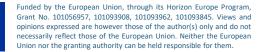


Portfolio of Projects set to deliver Mission Impact





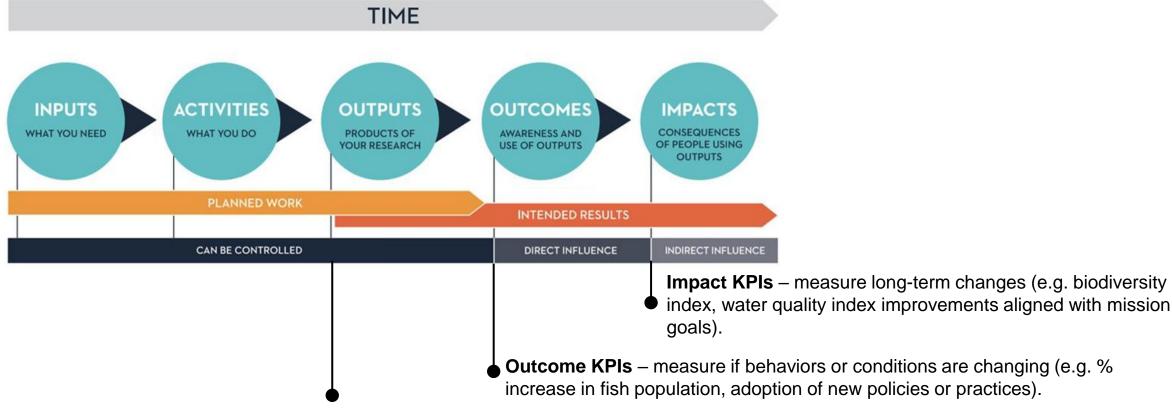






Pathways to Impact & Theory of Change

Structuring a roadmap for change



Outputs KPIs – measure if activities are delivered (e.g. # of workshops held, # of mangroves planted).

Source: Impact journey - Research Impact Toolkit (UCD)









PESTEL Analysis – A holistic context tool - Understanding external factors

P

Political

measuring if political conditions are favourable or improving

Track governance and policy support such as

policies or management plans influenced by the project

level of government engagement (e.g. participation in project events)

#new partnerships or commitments

E

Economic

measuring if economic viability and benefits are captured

Monitor economic factors & benefits such as

budget efficiency and funds leveraged

jobs created in restoration activities

economic value of ecosystem services restored

S

Social

social dimension of success (community buy-in is critical for e.g. marine conservation)

Monitors community and stakeholder aspects such as

stakeholder participation counts (workshops, citizen science)

#public awareness or attitude
shifts (survey results)

social acceptability of interventions.

T

Technological

technology can amplify impact – tracking its deployment shows capacity building

Include metrics on innovation and tech usage such as

#of new tools/protocols developed (eDNA assays, monitoring devices)

data collected (volume, quality via new tech)

platform usability stats

E

Environmental

traditional ecological KPIs indicating on-theground impact

Track changes on ecosystem and environmental aspects such as

area of habitat restored; biodiversity indices (species abundance/diversity)

water quality improvements

climate resilience metrics

Legal

covers the legal enabling environment for sustainability

Track legal/regulatory changes such as

new protected areas designated (hectares under protection)

compliance rates with conservation rules in project sites

integration of project results into law or official guidelines







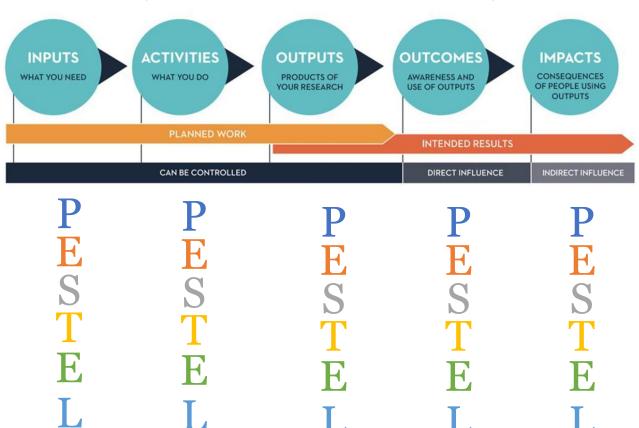
Integrating PESTEL and ToC for KPIs – building a robust monitoring framework

Why Integrate? PESTEL provides the context lens, while ToC provides the process lens. Combining them ensures KPIs cover both internal progress and external conditions.

This integrated approach answers: "Are we doing what we planned? And is the surrounding environment enabling success?"



P E S T E





P E S T E L







SLIDO Poll:

What is the biggest challenge in monitoring project impact Results shown during Panel Discussions and Closing.



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Approaches on Indicators, KPIs and Monitoring across the Mission CSAs

- BlueMissionAA, Harald Hasler-Sheetal (ICES)
- BlueMissionBANOS, Lotta Purkamo (GTK)
- BlueMissionMED, Nikos Streftaris (HCMR)
- PREP4BLUE, Caecilia Managò (ERINN)













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Monitor the implementation and achievement of the Mission Ocean objectives in the area of restoration of marine ecosystems **Atlantic / Arctic Lighthouse**

BLUEMISSI DN AA

Harald Hasler-Sheetal (ICES)



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The BMAA Process



Outcome: Report on Networking, collaboration and mutual learning for monitoring



Liaise with the overall Mission coordination and monitoring framework



Evaluation of scientific and technical attributes of existing restoration activities

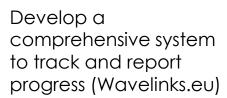


Baseline Study: Review existing restoration programs and projects

BLUEMISSION AA



Mission Ocean Monitoring & Reporting





Development of the monitoring platform



Indicator codevelopment and knowledge needs analysis



Inventory of ecosystem restoration activities, actors and KPIs from recent and ongoing projects, including solutions.











Indicator Development - Co-Creation process

- ✓ Short-, medium-, and long-term indicators
- ✓ Stratification by PESTEL categories
- ✓ Integration into Pathways to Impact (PtoI) framework
- ✓ Mission alignment & scalability











Indicator Category	KPIs from D2.4	PESTEL	Unit	Expected Data Sources	Frequ ency	Lighthou se Area	Mission Objective & Target	Aggreg ation Level	Data Availa bility
Output	# of restoration projects implemented	Env	Count	Project reports, national databases	Annu al	Atlantic & Arctic Danube	Objective 1: Restoration	Region al/Nati onal	High
Outcome	Area of restored marine habitats (e.g., seagrass, reefs)	Env	Area	Remote sensing, national reporting	Bienn ial		Objective 1: Restoration		High
Impact	Biodiversity recovery in restored habitats	Env	Index score	Long-term biodiversity monitoring programs	Annu al		Objective 1: Restoration		Low









Project 1 Results

Project 2 Results

Project 3 Results

Appropriate dissemination measures

Projects' Duration

Outcomes

Outcomes

Impact

and Work Programme

Outcomes are adopted

Time







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Next steps



Evaluation & Refinement (Workshop of nature restoration (WKREST), March 2025, ICES HQ, Copenhagen, further workshop with Sister CSAs, Mission Projects and Mission Monitoring).

Presentation at UN One Ocean Conference (June 2025, Nice)

Final recommendations in October 2025 preferably in a syerngy report across light houses.

→ Next Steps:

♦ Apply this framework across projects in the AA lighthouse.

♦ Identify key gaps in existing indicators using PESTEL insights.

Ensure KPIs align with Mission Ocean objectives for scalable impact tracking





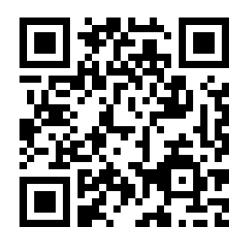




Approaches on Indicators, KPIs and Monitoring across the Mission CSAs

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Lotta Purkamo (GTK)



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Monitoring needs in the context of BMBANOS Our approach:

















Monitoring activities:



Support evidence-based decision-

Track progress toward carbon

health in the BANOS region

making for sustainable blue economy

neutrality, circularity, and ecosystem





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collection of existing KPIs (>400)

Divided to general or the sectors defined in EU Mission Outcome-Output-Impact Stakeholder workshop

Shortlisting of KPIs Expert workshop



Validation of KPIs Definition of the baseline Data availability

initiatives

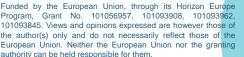
Future monitoring needs *An online questionnaire* Expert workshop

50 KPIs (10 for each sector) Evaluated readiness level Framework (PESTLE) Stage (Outcome, Outpu,-Impact) Data availability Defined baseline WaveLinks











Approaches on Indicators, KPIs and Monitoring across the Mission CSAs



SUPPORTING THE MEDITERRANEAN SEA BASIN FOR THE IMPLEMENTATION OF THE EU MISSION RESTORE OUR OCEAN AND WATERS

Nikos Streftaris (HCMR)









Indicator development Background

To reach it objectives, BMM defined measurable, verifiable, realistic and achievable STRATEGIC OBJECTIVES (SO) and underlying Operational Objectives and corresponding expected RESULTS

To achieve impact BMM project will contribute to the 6 EXPECTED OUTCOMES (EOs) of the call





The PATHWAY TO IMPACT is enabled by the Work Packages' workflow, i.e. including interlinks among tasks, and related intervention logic (inputs > outputs > outcomes > impacts), with the ultimate goal to deploy the MED LH monitoring framework.

BMM will contribute to the six Expected Outcomes , through its Strategic Objectives

Will provide a narrative of the planned activities



and highlight expected Results/Outputs (KPI) and Target Users.



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			to 505	
	EO1	Structuring effect to consolidate and engage a wide community of relevant stakeholders across the Mediterranean Sea basin, able to ensure an effective governance structure for the achievement of the Mission objectives	SO1	
	EO2	An effective governance structure ensuring coherence and alignment of policies, initiatives and actions at EU, national and local level;	SO1, SO3, SO5	
	EO3	Well-coordinated activities underpinned by a consistent monitoring framework to assess the implementation and achievement of the Mission objectives		
	EO4	Effective provision of technical services, governance and business models to support and guarantee a sustainable socio-economic development of the Mediterranean Sea basin	SO3	を一切
:he Eı	EO5	Well-functioning basin scale innovation ecosystem attractive to investors and businesses;	SO3	
0105(presse reflec ne gra	EO6	Increased awareness about the Mission and involvement of citizens in its implementation in the Mediterranean Sea basin and beyond.	•	· ·

BMM	Strategic Objectives (SO)
SO1	Structuring the Mediterranean Sea basin LH governance and networking
SO2	Framing Ecosystem's opportunity, needs and gaps
SO3	Empowering and supporting the Mediterranean Sea basin innovation
	ecosystem towards Mission Implementation
SO4	Contributing to Mission implementation's monitoring in the LH area
SO5	Consolidating the BlueMissionMed experience and lessons learned into
	recommendations for transferability and replicability
S06	Increase the awareness about the Mission and promote the "emotional"

connection and involvement of citizens in its implementation

Expec	ted Outcomes (EO)	EOs relation to SOs
E01	Structuring effect to consolidate and engage a wide community of relevant stakeholders across the Mediterranean Sea basin, able to ensure an effective governance structure for the achievement of the Mission objectives	SO1
EO2	An effective governance structure ensuring coherence and alignment of policies, initiatives and actions at EU, national and local level;	SO1, SO3, SO5
EO3	Well-coordinated activities underpinned by a consistent monitoring framework to assess the implementation and achievement of the Mission objectives	SO2, SO4
EO4	Effective provision of technical services, governance and business models to support and guarantee a sustainable socio-economic development of the Mediterranean Sea basin	SO3
EO5	Well-functioning basin scale innovation ecosystem attractive to investors and businesses;	SO3
050 EO6 lec gra	Increased awareness about the Mission and involvement of citizens in its implementation in the	SO6, SO4

BMM Indicator Development

Initial Indicator development

- **European Missions Restore** our Ocean and Waters by 2030 - Implementation Plan
- **Baseline study for the** implementation of lighthouses of the Mission 'Restore our ocean and waters by 2030': Atlantic, **Arctic, Danube and Mediterranean lighthouses**
- **MED projects Indicators**
- Internal consultation

Indicator definition

BMM Indicators M12

13 Output, 11 Outcome 2 Impact

Internal Review **BMM M24**

MIP initial studies





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Indicators

MIP 2024

work

M12

Indicators

MISSION Monitoring Dashborad

41 Output,

3 Impact

21 Outcome





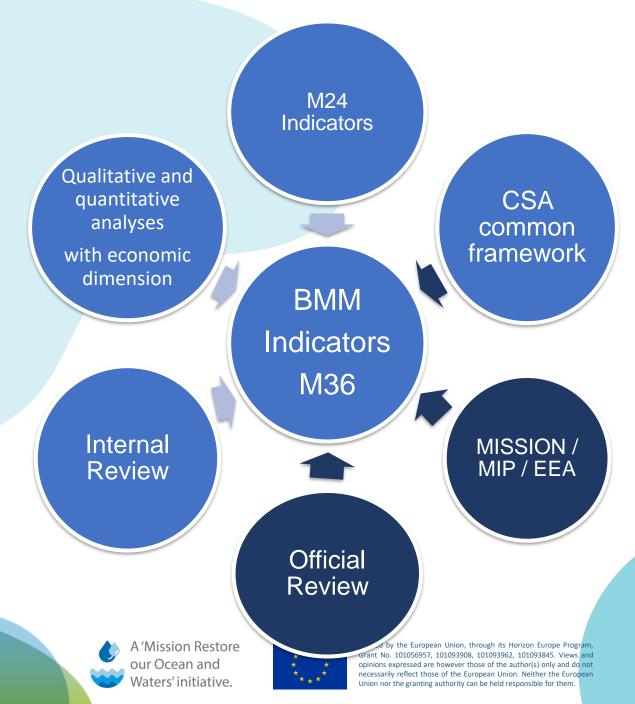
Next Steps

Initial Indicator development based on

- European Missions Restore our Ocean and Waters by 2030 - Implementation Plan
- Baseline study for the implementation of lighthouses of the Mission 'Restore our ocean and waters by 2030': Atlantic, Arctic, Danube and Mediterranean lighthouses
- MED projects Indicators

RESTORE OUR OCEAN & WATERS

Internal consultation





Check our deliverable:







Approaches on Indicators, KPIs and Monitoring across the Mission CSAs



Caecilia Managò (ERINN)







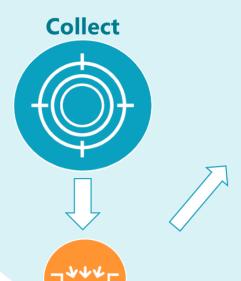




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APPROACH IN PREP4BLUE

Knowledge Transfer Methodology by ERINN Innovation



Identification & Collection of Knowledge

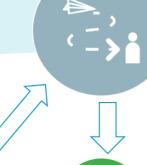
Analyse





Mapped Pathway to **Impact**

Transfer





Measured Impact of Transfer

© Image courtesy of ERINN Innovation



Analysis Criteria and underlying Indicators support identification of Mission-relevant solutions, the most efficient pathway to impact and impact indicators

Criteria	Suitability*/ MISSION FIT	Application and Impact potential* By 2030	External factors and other considerations
Indicators	Mission Objectives*, Targets*, Enablers*	Maturity*: Achievable Readiness- level (TRL, BRL, MRL, SRL, IRL)*	Market (CAGR, need, readiness) and market share (TAM, SAM, SOM)
	Policies, regulations or legislations the Mission is expected to contribute to (e.g. GreenDeal, SDG*)	Scale-up* and scale out potential to maximise impact	User (identified, known, clear need identified, gains and pains across the value chain addressed)
	Protect and restore the health of our ocean and waters, climate neutrality, nature restauration	Replicability* (Geographical, Sectorial etc.)	Feasibility (e.g. a new standard to be implemented into a member state)
	Contribution to target impacts in a specific Lighthouse area	Uptake potential (COM-B, TAM, TAC, BCW)*	Competitors (strong competitor landscape or solution easy to copy)
	Innovativeness (transformative*, incremental, disruptive)*, beyond the State of the Art	Systemic application* (sub-system, system, ecosystem)	Resources needed for scaling (time, funds)
	Not highly innovative but high value to create impact.	Negative impacts (collaterals, risks, barriers, trade-offs)	Domain-specific considerations

Check our deliverable:



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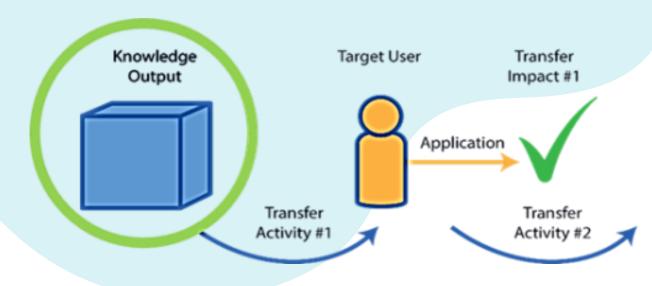


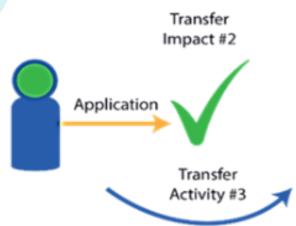


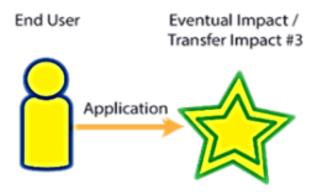
PATHWAY TO IMPACT

Development of Pathways to Impact









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IMPACT MONITORING



Project

ETHNIKO KENTR

Solution

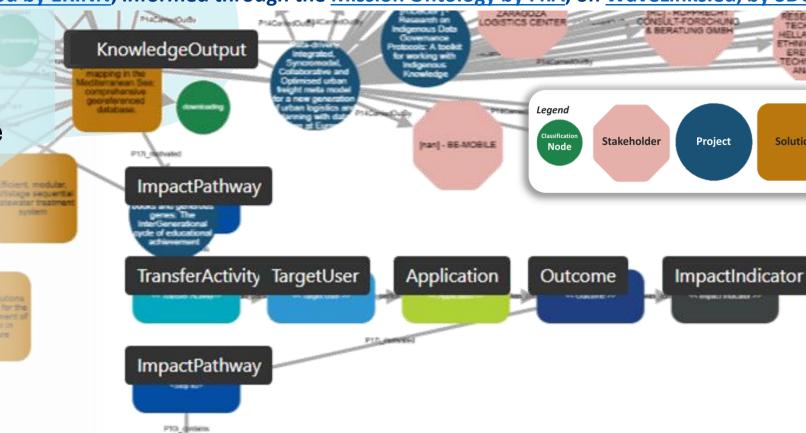
Based on Knowledge Management Method by ERINN, informed through the Mission Ontology by FhA, on WaveLinks.eu, by SDU

Check out the PREP4BLUE

Knowledge Transfer Online Showcasing Module

on WaveLinks.eu:











TransferActivity TargetUser

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Application

Outcome



ImpactIndicator

IMPACT MONITORING



Based on Knowledge Management Method by ERINN, informed through the Mission Ontology by FhA, on WaveLinks.eu, by SDU

Check out the PREP4BLUE

Knowledge Transfer Online Showcasing Module

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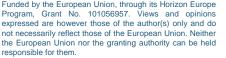
The Knowledge Transfer Online Showcasing Module allows you to:

- Find solutions to a specific topic/ issue/ need
- Enhance visibility and findability of your Knowledge Output
- Map stakeholders working in your area of interest
- Draft Pathways to Impact in a graphical representation
- Identify Synergies among Solutions, Projects and Stakeholders
- Monitor impact based on the outcomes and impact indicators





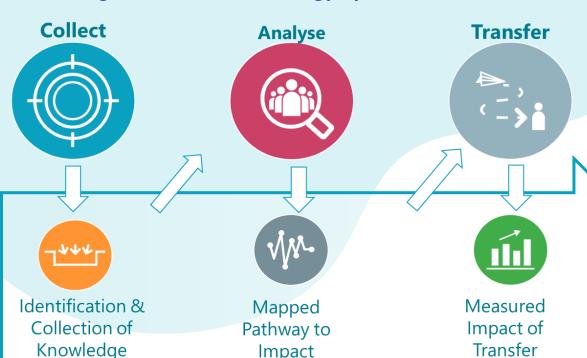






APPROACH IN PREP4BLUE

Knowledge Transfer Methodology by ERINN Innovation



Impact

© Image courtesy of ERINN Innovation







Multiplatform tracking and wireless communication system enabling precision fish farming and ecosystem

Project website

(* Dashboard C Explore

Networking

Monitoring

Background Description

The Side Sarring industry needs instruments that can income in real time fish health and welfare objectively. The interior of Things (inC) can contribute to the

Description

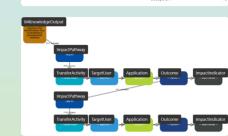
in the transminis of the FutureEldeput perpet, CORPA Templogic & Russica ta nonprofit cooperative parties of the project developed and horsed firs multiplottons trading and communication system for smultipleady maintaining the activity and physiology of fail, as set as the man parameters of the existorment where they are farmed, by using a wississe communication system. This way a real time: relocation between turns and farmers will allow a significant adjustment actions. energetic, freeting physiology) data, collected by a reflected of wholes electronic tab health, welfare and habited use that facilitative production moduling of the



PubliseESAqua targo scale demonstration activities is the equilibrit integrating several technological substance to halfated derrunds in an reseasofive way. The system technology of least by final time asparsature (<u>provide support</u>) and "Aspathiessus a furnity of enreport, submired the invention and that shelf sursors, with Calladar, Whi Ri and Indiom, ac well as the VRRP & VI KAP accommonator pressure asistary larger part. The data is transported through a wise on a gatavery denier. is both water environment. More advanced tags incorporate surposs that measure and record a state of an incremental and for biological passenators of fish, for

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Potential Stakeholder



environmenta



Settings

Panel 1:

Challenges in KPI Identification, Implementation & Scalability Facilitator: Nikos Streftaris (BMMED)

Panel:

Alex Ziemba, Ultfarms, BANOS LH Sophie Jensen, BIOPROTECT, AA LH Marton Pesel, DALIA, DBS-LH Lorenzo Proia, SEACURE, MED-LH

Question	Respondents
What are the most critical KPIs currently used in your project?	Alex Ziemba
Which KPIs align well with the Mission Ocean objectives?	Sophie Jensen
What challenges do you face in measuring long-term impact?	Marton Pesel
Are there overlooked dimensions in the monitoring frameworks that should be integrated?	Lorenzo Proia

Slido in parallel:



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the European Union







Approaches on Indicators, KPIs and Monitoring across the Mission CSAs

Jacques Delsalle (European Commission)







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Mission Ocean and Waters Monitoring Framework

On-going building of the indicators framework, based on Mission Implementation Plan, Report of Commission Expert Group on Mission Monitoring, OECD Mission Lab, etc

Integration of indicators into Mission Monitoring Dashboard on the Mission Service Portal

Resources/Activities/Outputs

- Indicators being developed by the Mission Implementation Platform service contract
- Currently covers HE Mission WP21-23 projects and Charter pledges
- Further extension to wider portfolio of projects / activities foreseen
- ·Indicators linked to assessment questions, e.g.
- •Are the resources used at the planned rate?
- •Are the right stakeholders attracted?
- •Is the focus of outputs per Mission objective sufficient?
- •How are mission actions deployed across the EU?

Outcomes

- Indicators under developments
- Source: RTD expert assessment of expected outcome of the 67 HE 21-23 funded mission projects + selected charter actions
- New knowledge
- New technologies and innovative solutions
- •Business innovation and new business models
- Social innovation and water literacy
- Transition in governance
- •Delivery by Q2 2025

Impacts

- Indicators being developed by the European Environment Agency (EEA) under the Service Level Agreement with DG MARE
- Assessing the contribution of the Mission activities to achieve its policy objectives and targets by 2030
- Q2 2025: Methodology for impact indicators related to Mission Specific Objectives and Targets
 + 1st Monitoring report
- Indicators to be made available under WISE-Marine, link to be provided in the dashboard

Link with Key Impact Pathways 5 (Missions) indicators developed for HE evaluation

KIP5 short-term

• Number of outputs such as publications; IPR applications innovative products, processes or methods, including exploitable foregrounds, demonstrators, prototypes, applications, methodologies, processes, tools, etc.

KIP5 medium-term

 Number (and share) of innovations (by type of innovation and research results from FP projects, including those from awarded IPRs, that address a particular mission

KIP5 long-term

•Targets achieved in specific EU mission

Panel 2:

Ensuring KPI Adoption & Integration into Mission Projects, Facilitator: Lisa Waldenberger (EcoDaLLi)

Panel:

Alex Ziemba, Ultfarms, BANOS LH Sophie Jensen, BIOPROTECT, AA LH Marton Pesel, DALIA, DBS-LH Uros Novak, REMEDIES, MED-LH

Question	Respondents
What resources (funding, technology, training) would help in scaling impact measurement?	Alex Ziemba
How can we ensure that KPIs remain flexible yet standardized across different sea basins?	Uros Novak
What challenges do you face in measuring long-term impact?	Sophie Jensen
	Marton Pesel

Slido:



#3991 199



the European Union







Final Remarks

BlueMissionAA, Harald Hasler-Sheetal (ICES)

BlueMissionBANOS, Lotta Purkamo (GTK)

BlueMissionMED, Nikos Streftaris (HCMR)

EcoDaLLi, Lisa Waldenberger (BOKU)

PREP4BLUE, Caecilia Managò (ERINN)







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Harmonizing Monitoring Approaches & KPIs Across CSAs and IAs

Engaged participants

70 out of 87 Slido participants engaged with polls or Q&A.

Participants asking in Q&A

Participants up or down voting in Q&A

Participants voting in polls

Engaged participants score

81%

0

0

Q&A engagement

Your Q&A received no questions.

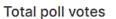


Slido Q&A can drive better meeting engagement.

√
? Learn more

Poll engagement

70 out of 87 Slido participants voted in a poll.



Polls with responses

Average votes per poll

Poll engagement score

81%

251

6

42





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What sector do you work in?

Wordcloud Poll

72 responses

8 50 participants









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Where is your company based?

Wordcloud Poll

53 responses

용 47 participants









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Are you involved in a Mission Ocean project?

Multiple Choice Poll

🗸 60 votes

器 60 participants

Yes - 49 votes

82%

No - 11 votes

18%















RESTORE OUR OCEAN & WATERS





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What is the biggest challenge in monitoring project impact? Please rank from most challenging (1) to least challenging (4).

Ranking Poll 2 44 votes 8 44 participants

Difficulty measuring long-term impact.

3.21

Lack of comparable indicators across projects.

2.57

3. Lack of alignment with governance, policy needs & funding.

2.11

4. Gaps in technological capacity for real-time monitoring.

1.25







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What is the biggest challenge in KPI alignment across projects? Please rank from most challenging (1) to least challenging (4).

Ranking Poll 25 votes 25 participants

1. Making indicators practical for implementation.

3.04

2. Ensuring long-term impact tracking.

2.24

Standardising KPIs across regions.

2.2

4. Aligning KPIs with governance & policy needs.

1.76





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What would most help Mission Ocean projects implement effective KPI tracking? Please rank from most helpful (1) to least helpful (4).

Ranking Poll 25 votes 🖇 25 participants

More standardised indicator sets.

3.52

2. More funding for long-term monitoring.

2.44

3. Greater policy alignment & integration.

1.8

Better real-time data collection tools.

1.76







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Thank you for your attention



For any question, please do not hesitate to contact us (from left to right in the photo)

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