

RIVIERADE

Kick-off meeting

Trieste 16-18 Feb 2026

WP1 Initial DMP and Risk Management

Stefano Salon, OGS



This project has received funding from Horizon Europe RIA under Grant Number 101181983

Data Management Plan (DMP) – Task1.2

- D1.2 (M6) first version: questionnaire asking for an initial data mapping, following Horizon EU template
- D1.7 (M24) updated version, D1.9 (M48) final version
- In close alignment with the project's Open Science objectives and exploitation strategies, DMP will address the requirements for research data management of Horizon EU as described in article 17 and analysed in the Annotated Grant Agreement
- DMP will prioritise internal data sharing and will be overseen by OGS as part of WP1 focus on research data management
- Data Management panel will report to the steering committee and ensure that all data management activities adhere to EC standards, including the Guidelines on FAIR Research Data Management in Horizon Europe.
- The implementation of the FAIR guiding principles will be inspired by the FAIR-by-design approach proposed in Horizon Europe Skill4EOSC project.
- OGS will oversee the implementation of the research data policy.
- Full details in section 1.2.9 of DoA (NetCDF-CE / ZARR □ MDS@CMFEMS, CMOR □ ESGE, Zenodo)

Risks Management / Risk Register (RR) – Task1.2

- Risk assessment of the project: contingency plans and remediation measure

Critical risks & risk management strategy <i>Grant Preparation (Critical Risks screen) — Enter the info.</i>		<i>kept updated under the continuous reporting WP LEADERS suggest new risks!</i>	
Risk number	Description level of likelihood / severity	Work Package No(s)	Proposed Mitigation Measures
1	Absence of key staff (low/high)	WP4, WP1, WP2, WP3, WP6, WP5	All WPs have lead and co-lead roles to ensure that work can continue smoothly in the event of absence of key roles.
2	Difficulty maintaining users and stakeholder engagement (low/medium)	WP2	Partners contributing in WP2 have a long-standing relationship with users and stakeholders. This will facilitate facing critical situations and/or understanding their needs.
3	Insufficient computational resources to perform the basin-scale simulations (low/high)	WP4, WP3, WP5	Most of the modelling centres have access to their own supercomputing which guarantees the computing hour access. Some partners can increase their simulation contribution in case of partner failure.
4	Failure in producing high-quality dynamical downscaling of the decadal forecasts due to missing forcing data or lower than expected predictability of the climate in the target seas (low/medium)	WP3	Even if the forcing data are missing or if these data are of poor quality, a predictive skill can be expected through the initialisation or an improved spin-off strategy of the three target seas. Initialisation data are available through CMEMS products.
5	Delay in producing the physics basin-scale multi-decadal grand ensemble which will delay the WP5 and WP6 work (medium/medium)	WP4, WP6, WP5	Milestones have been set to monitor this risk. Not all the WP4 simulations will be used in WP5 and WP6. First hindcast simulations and first historical/scenario run will be distributed before the completion of the whole grand ensemble. <u>WP5 and WP6 will have forcing data from month 18 at least (M11).</u>
6	Not all planned model developments are completed in due time due to the short development phase and acknowledging the inherent risks related to complex model development (high/low)	WP4, WP5	We follow a pragmatic strategy in order not to delay the rest of the project: each partner has defined a list of relevant new developments to be implemented in each of the modelling platforms (see BOX4). At month 12, a Milestone (M10) will help to decide and report for each modelling platform the list of model developments mature enough to enter the production phase.

Risks Management / Risk Register (RR) – Task1.2

- Risk assessment of the project: contingency plans and remediation measure

Critical risks & risk management strategy		<i>kept updated under the continuous reporting WP LEADERS suggest new risks!</i>	
<i>Grant Preparation (Critical Risks screen) — Enter the info.</i>			
Risk number	Description level of likelihood / severity	Work Package No(s)	Proposed Mitigation Measures
7	Low interest of researchers in supporting dissemination and communication activities (low/high)	WP4, WP1, WP2, WP3, WP6, WP5	Some partners have a partnership with end-users of climate information and will disseminate it in any case. These partners could replace less interested partners in dissemination tasks.
8	Reduced implementation and impact maximisation of communication, dissemination and exploitation (CDE) activities partially supported by partners own resources (low/high)	WP1	A clear CDE team will be identified in WP1 to ensure that this activity has a dedicated team. KPI for CDE, (as listed in Table 2.2) will be monitored (every 6 months) to ensure their fulfillment. Partners own resources will contribute to achieve CDE objectives leveraging on activities and projects already funded (e.g., yearly events such as the Blue Skills* and AMARE-MED** summer schools organized by OGS, the Liege Colloquium*** organized by ULiege) ensuring maximization of outreach and training efforts. * https://blueskills.ogs.it/summer-school * https://blueskills.ogs.it/projects/amare-med-2025 * https://www.ocean-colloquium.uliege.be/
9	COVID-19 (or other) restrictions (low/medium)	WP4, WP1, WP2, WP3, WP6, WP5	Experience has been gained in working virtually and we are prepared to switch most activities to on-line formats if required. The interactions with the USAB can run in-person or virtually.
10	Scientific critical Risk Use cases: Low quality of downscaling results (low/medium)	WP6	If the downscaled results prove not to meet the user requirements, the resolutions will be adjusted based on the user requirements
11	Engagement critical risk use cases: Low interest of users and stakeholders to be involved in USAB or other project engagement activities (low/medium)	WP2, WP6	The partners have a good connection with potential users. WP6 leader is well experienced as coordinator of different Horizon projects in terms of engaging with different users in the blue economy

		2026													
		J	F	M	A	M	J	J	A	S	O	N	D	J	
Task Resp.	Task	months	1	2	3	4	5	6	7	8	9	10	11	12	1:
WP1	Management, Coordination, Communication, Dissemination and Exploitation		K		P			P,GA			P				A
OGS	1.1 Day-to-day Project Management														
OGS	1.2 Monitoring progress, KPIs and risk, Project meetings														
OGS	1.3 Financial management and reporting														
OGS	1.4 General communication														
OGS	1.5 Dissemination and capacity building														
OGS	1.6 Exploitation activities														
		Milestones													
WP2	Co-design of demonstrators of basin scale to coastal ocean climate services														
OGS	2.1 Setting the Scene														
ENEA	2.2 Workshops for demonstrators co-design														
SMHI	2.3 Test and validate the demonstrators														
ENEA	2.4 Showcase the value of the demonstrators														
		Milestones													
WP3	Decadal horizon: benefiting from realistic initialization														
IOW	3.1 Develop and implement the dynamical downscaling tools														D3.1
CMCC	3.2 Production of the downscaled decadal predictions														
IOW	3.3 Evaluation and validation of the downscaled decadal predictions														
		Milestones													
WP4	Basin-scale Multi-Decadal Climate Projection Grand Ensemble (physics)														
CNRS-CNRM	4.1 Definition of the simulation protocol														D4.1
ULiège	4.2 Model development and evaluation														
CNRS-CNRM	4.3 Production of the hi-res, multi-model, multi-sea grand ensemble														
IOW	4.4 Assessment of climate change impact on target seas physics														
		Milestones													MS10
WP5	Basin-scale decadal predictions & multi-decadal projections (BGC & ETWL)														
ULiège	5.1 Definition of protocols for BGC models and for ETWL models														D6.1
IHE Delft	5.2 Model development and validation														
IOW	5.3 Production of the hi-res, multi-model, multi-sea grand ensemble														
OGS	5.4 Assessment of climate change impact on target seas BGC & ETWL														
		Milestones													
WP6	Building basin-scale to coastal areas climate services														
SMHI	6.1 Development and production of basin scale indicators														
CNRS-LEGOS	6.2 Assessment and release of basin scale indicators														
IHE Delft	6.3 Development of local scale climate risk services in coastal areas														
METU	6.4 Development of climate services in coastal areas supporting the blue economy														
		Milestones													

2026: protocols, evaluation framework, indicators, model development

		2026													
		J	F	M	A	M	J	J	A	S	O	N	D	J	
Task Resp.	Task	months	1	2	3	4	5	6	7	8	9	10	11	12	13
WP1	Management, Coordination, Communication, Dissemination and Exploitation		K		P			P,GA			P			A	
OGS	1.1 Day-to-day Project Management														
OGS	1.2 Monitoring progress, KPIs and risk, Project meetings														
OGS	1.3 Financial management and reporting														
OGS	1.4 General communication														
OGS	1.5 Dissemination and capacity building														
OGS	1.6 Exploitation activities														
		Milestones													
WP2	Co-design of demonstrators of basin scale to coastal ocean climate services														
OGS	2.1 Setting the Scene														
ENEA	2.2 Workshops for demonstrators co-design														
SMHI	2.3 Test and validate the demonstrators														
ENEA	2.4 Showcase the value of the demonstrators														
		Milestones													
WP3	Decadal horizon: benefiting from realistic initialization														
IOW	3.1 Develop and implement the dynamical downscaling tools														D3.1
CMCC	3.2 Production of the downscaled decadal predictions														
IOW	3.3 Evaluation and validation of the downscaled decadal predictions														
		Milestones													
WP4	Basin-scale Multi-Decadal Climate Projection Grand Ensemble (physics)														
CNRS-CNRM	4.1 Definition of the simulation protocol														D4.1
ULiège	4.2 Model development and evaluation														
CNRS-CNRM	4.3 Production of the hi-res, multi-model, multi-sea grand ensemble														
IOW	4.4 Assessment of climate change impact on target seas physics														
		Milestones													MS10
WP5	Basin-scale decadal predictions & multi-decadal projections (BGC & ETWL)														
ULiège	5.1 Definition of protocols for BGC models and for ETWL models														D6.1
IHE Delft	5.2 Model development and validation														
IOW	5.3 Production of the hi-res, multi-model, multi-sea grand ensemble														
OGS	5.4 Assessment of climate change impact on target seas BGC & ETWL														
		Milestones													
WP6	Building basin-scale to coastal areas climate services														
SMHI	6.1 Development and production of basin scale indicators														
CNRS-LEGOS	6.2 Assessment and release of basin scale indicators														
IHE Delft	6.3 Development of local scale climate risk services in coastal areas														
METU	6.4 Development of climate services in coastal areas supporting the blue economy														
		Milestones													

M12-13 (within January 2027): start of production in WP3/WP4

Task Resp.	Task	months	2026												2027				
			J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M
WP1	Management, Coordination, Communication, Dissemination and Exploitation		K	P			P,GA			P		A			P			P,GA	
OGS	1.1 Day-to-day Project Management							D1.1											
OGS	1.2 Monitoring progress, KPIs and risk, Project meetings							D1.2											
OGS	1.3 Financial management and reporting																		
OGS	1.4 General communication							D1.4											
OGS	1.5 Dissemination and capacity building																		
OGS	1.6 Exploitation activities																	D1.5	
			Milestones MS1					MS2											
WP2	Co-design of demonstrators of basin scale to coastal ocean climate services																		
OGS	2.1 Setting the Scene						D2.1												
ENEA	2.2 Workshops for demonstrators co-design														D2.2				
SMHI	2.3 Test and validate the demonstrators																		
ENEA	2.4 Showcase the value of the demonstrators																		
			Milestones					MS4					MS5		MS6				
WP3	Decadal horizon: benefiting from realistic initialization																		
IOW	3.1 Develop and implement the dynamical downscaling tools													D3.1					
CMCC	3.2 Production of the downscaled decadal predictions																		
IOW	3.3 Evaluation and validation of the downscaled decadal predictions																		
			Milestones																
WP4	Basin-scale Multi-Decadal Climate Projection Grand Ensemble (physics)																		
CNRS-CNRM	4.1 Definition of the simulation protocol													D4.1					
ULiège	4.2 Model development and evaluation																		
CNRS-CNRM	4.3 Production of the hi-res, multi-model, multi-sea grand ensemble																		
IOW	4.4 Assessment of climate change impact on target seas physics																		
			Milestones											MS10				MS11	
WP5	Basin-scale decadal predictions & multi-decadal projections (BGC & ETWL)																		
ULiège	5.1 Definition of protocols for BGC models and for ETWL models													D6.1					
IHE Delft	5.2 Model development and validation																		
IOW	5.3 Production of the hi-res, multi-model, multi-sea grand ensemble																		
OGS	5.4 Assessment of climate change impact on target seas BGC & ETWL																		
			Milestones															MS13	
WP6	Building basin-scale to coastal areas climate services																		
SMHI	6.1 Development and production of basin scale indicators																		
CNRS-LEGOS	6.2 Assessment and release of basin scale indicators																		
IHE Delft	6.3 Development of local scale climate risk services in coastal areas																		
METU	6.4 Development of climate services in coastal areas supporting the blue economy																		
			Milestones																

M18 (within June 2027):

- *Start of assessment of CC impact on physics, BGC and ETWL*
- *Start of production in WP5*

MILESTONES

Milestone No	Milestone Name	Work Package No	Lead Beneficiary	Means of Verification	Due Date (month)
1	Kick-off meeting completed	WP1	1 - OGS	Minutes including agenda and photos of the event available on Zenodo	1
2	First version of the project website	WP1	7 - ENEA	Website active	6
3	Training activities concluded	WP1	1 - OGS	Educational material including agenda and photos of the event available on project website	47
4	USAB set up	WP2	1 - OGS	Minutes of the meeting for the appointment of the USAB during the event available on Zenodo	4
5	Scoping workshops in the three basins conclude	WP2	7 - ENEA	Minutes of the workshops and photos available on project website	14
6	Design of RIVIERADE demonstrators	WP2	6 - SMHI	Factsheet on first version of the demonstrators available on project website	16
7	Final version of demonstrators tested and validated	WP2	6 - SMHI	Factsheet on the final version of the demonstrators available on project website	36
8	Final Showcase Event concluded and demonstrators factsheet published on the project website	WP2	7 - ENEA	Minutes including agenda and photos of the event available on project website	48
9	Initial ensemble of decadal downscaling simulations ready to be used in other WPs	WP3	3 - FONDAZIONE CMCC	Files in the CINECA internal storage	24
10	Model configuration ready and start of the production	WP4	8 - ULIEGE	List of the modelling platform configurations with a synthetic description of the validated developments openly published on Zenodo and linked to the project website	12

MILESTONES

Milestone No	Milestone Name	Work Package No	Lead Beneficiary	Means of Verification	Due Date (month)
11	Initial ensemble of hindcast simulations ready to be used for the other WPs	WP4	8 - ULIEGE	Files in the CINECA internal storage	18
12	Final list of simulations and CMOR-compliant and ESGF-ready files - T4.3	WP4	2 - CNRS	List of simulations, available variables and CMORized status published openly on Zenodo and linked to the project website	48
13	BGC and ETWL model configuration ready and start of the production	WP5	4 - IHE DELFT	List of the modelling platform configurations with a synthetic description of the validated developments openly published on Zenodo and linked to the project website	18
14	Initial ensemble of hindcast simulations ready to be used for WP6	WP5	6 - SMHI	Files in the CINECA internal storage	24
15	Final list of simulations and CMOR-compliant and ESGF-ready files - T5.3	WP5	5 - IOW	List of simulations, available variables and CMORized status published openly on Zenodo and linked to the project website	48
16	First version of RIVIERADE catalogue for WP2 demonstrators	WP6	2 - CNRS	First version of catalogue available on project website and ENEA web-portal	36
17	Final version of RIVIERADE catalogue for WP2 demonstrators	WP6	2 - CNRS	Final version of catalogue available on project website and ENEA web-portal	40
18	Physical-biogeochemical downscaling runs in selected coastal areas completed	WP6	9 - METU	Files in the CINECA internal storage	40

Deliverables' preparation and review process

- **Deliverable due in Month N – Preparation and Submission Procedure:**
- Roles and Responsibilities:
 - The Task Leader (TL) and the WP Leader (WPL) are jointly responsible for the timely preparation, quality assurance, and submission of the Deliverable.
 - All involved Project Partners (PPs) are responsible for providing their respective contributions in line with the agreed structure and timeline.

Deliverables' preparation and review process

- Deliverable due in Month N (time “T”):

Timing	Responsible	Action	Output
T – 6 weeks	Task Leader (TL)	Uploads detailed Table of Contents (ToC) in the dedicated WP Teams folder and shares link with WP Leader (WPL) and contributing Project Partners (PPs).	Agreed ToC and structure shared with contributors
T – 6 to T – 2 weeks	Contributing PPs	Draft and upload their respective sections according to the agreed structure and internal deadlines.	Draft contributions uploaded
T – 3 weeks	Task Leader (TL)	Consolidates all contributions; ensures consistency, formatting, and compliance with project template and requirements. Submits consolidated draft to WPL (cc Project Coordinator and Steering Committee).	Consolidated draft (v1)
T – 2 week	WP Leader (WPL)	Reviews the draft and provides consolidated feedback to TL.	Review comments
T – 2 week	Project Coordinator & Steering Committee	Provide additional strategic and quality feedback (if required).	Additional comments (if applicable)
T – 5 days	Task Leader (TL)	Integrates final comments, performs final quality check, and submits final version to OGS for upload to the EC Portal.	Final deliverable submitted for upload
Deadline (End of Month N)	OGS	Uploads the deliverable to the EC Portal.	Deliverable officially submitted

Deliverables' preparation and review process

- **Deliverable due in Month N – Preparation and Submission Procedure:**
- Quality Assurance Principles:
 - Full compliance with the Description of Action (DoA).
 - Alignment with project objectives, expected outcomes, and KPIs.
 - Clear structure, evidence-based reporting, and consistency across sections.
 - Proper formatting (EU template, branding, disclaimer, version control).
 - Respect of internal deadlines to mitigate submission (last-minute) risks.

Deliverables' preparation and review process

Activity	Task Leader (TL)	WP Leader (WPL)	Proj. Coord. (PC)	Steering Comm. (SC)	Project Partners (PPs)	PMO @OGS
Definition of Table of Contents (ToC)	R	A	I	I	C	I
Drafting of individual sections	I	C	I	I	R	I
Consolidation of contributions	R	A	C	I	I	I
Quality check (format, template, compliance with DoA)	R	A	C	I	I	I
Internal review of draft	C	R	C	C	I	I
Validation of final version	C	A	C	C	I	I
Submission to OGS	R	A	C	I	I	I
Upload to EC Portal	I	I	I	I	I	R / A

R (Responsible): Executes the task and produces the deliverable output.

A (Accountable): Has final responsibility and approval authority (one per activity).

C (Consulted): Provides input before finalization (two-way communication).

I (Informed): Kept informed of progress or results (one-way communication).