RISEnergy

Research Infrastructure Services for Renewable Energy

Kick-off Meeting | Day 2 | 13 March 2024

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

RISEnergy

1.
Welcome

Peter Holtappels | **KIT,** Project coordinator

Kick-off Meeting | 13.03.2024

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Agenda

Day 1

Time	TOP	RISEnergy Kick-off Meeting - Day 1	Speaker	
13:30		**Registration**		
14:00	**1.**	**Welcome**	**Peter Holtappels (KIT), PC Bodo Lehman, Head of LV-BW, Brussels**	**(10')**
14:10	**2.**	**Project overview**	**Peter Holtappels (KIT), PC**	**(20')**
	3.	**Research Infrastructure presentation**		
14:30		General introduction	Peter Holtappels (KIT), PC	(15')
14:45		Research Infrastructures: PV, CSP/STE, Ocean, Bio, Wind	Thematic leaders	(5 X 10')
15:45		**Coffee break (group photo)**		
16:15		Research Infrastructures: Hydrogen, Storage, Grids, ICT	Thematic leaders	(4 X 10')
17:15		Research Infrastructures: Cross-cutting	Holger Ihssen (HGF)	(20')
17:35		Research Infrastructures: International	Olga Sumińska-Ebersoldt (KIT)	(10')
17:45		Discussion: Q&A	Peter Holtappels (KIT)	(20')
18:05	**4.**	**Structural needs for accelerated innovation: material research**	**Holger Ihssen (HGF)**	**(25')**
18:30		**End of meeting**		

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Agenda

Day 2

Time	TOP	RISEnergy Kick-off Meeting - Day 2	Speaker	
08:30		**Registration**		
09:00	**1.**	**Welcome & Agenda**	**Peter Holtappels (KIT), PC**	**(10')**
09:10	**2.**	**EC expectations**	**Anna Santoro (EC), PO**	**(20')**
09:30	**3.**	**RISEnergy concept**	**Peter Holtappels (KIT)**	**(20')**
	4.	**The scientific approach and the actions (WPs)**		
09:50	WP1	Building an energy R&I ecosystem	Mónica de Juan (EERA), WP1L	(15')
10:05	WP2	TNA and VA to world-class research infrastructures	Olga Sumińska-Ebersoldt (KIT), WP2L	(15')
10:20	WP3	Cross-cutting and RES services to support technolgies, systems & policy makers	Michael Hayes (UCC), WP3L	(15')
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11:00	WP4	Pro-active innovation management	Venizelos Efthymiou (EPL), WP4L	(15')
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12:00	**5.**	**Administrative and financial managememt issues**	**Sabine Müller (KIT)**	**(15')**
12:15	**6.**	**General Assembly first decisions**	**Peter Holtappels (KIT), PC**	**(5')**
12:20	**7.**	**Advisory Board feedback**	**Peter Holtappels (KIT), PC**	**(30')**
12:50	**8.**	**Closing remarks and next steps**	**Peter Holtappels (KIT), PC**	**(10')**
13:00		**End of meeting**		
13:00		**Lunch**		

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2.
EC Expectations

Anna Santoro | **EC,** Project officer

Kick-off Meeting | 13.03.2024

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Research Infrastructure Services for Renewable Energy (RISEnergy)

Grant Number: 101131793

HORIZON-INFRA-2023-SERV-01-01 - Research infrastructure services to enable R&I addressing main challenges and EU priorities

Kick-off meeting – 12-13 March 2024

Anna Santoro
European Research Executive Agency

Outline

I.Monitoring & Reporting

- Technical Reporting
- Financial Reporting
- Audits
- Amendments

II.Cross-cutting aspects

- Impact
- Communication, Dissemination & Exploitation
- Open Science
- Policy Feedback
- Ethics

III.Extra Resources

European Commission

Role Distribution

DG Research and Innovation

-> Definition of Policies

-> Drafting the Work Programme

Research Executive Agency (REA)

'Reforming European Research & Innovation and Research Infrastructures', **Unit C4**

-> Implementation of calls for proposals

-> Grant Management

Coordinator

-> Monitor that the action is implemented properly

-> Act as the intermediary for all communications with REA

-> Distribution of payments

I. Monitoring and Reporting

- ❑ Technical Reporting
- ❑ Financial Reporting
- ❑ Audits
- ❑ Amendments

European Commission

Monitoring Project Implementation

Technical: compliance with the Description of the Action

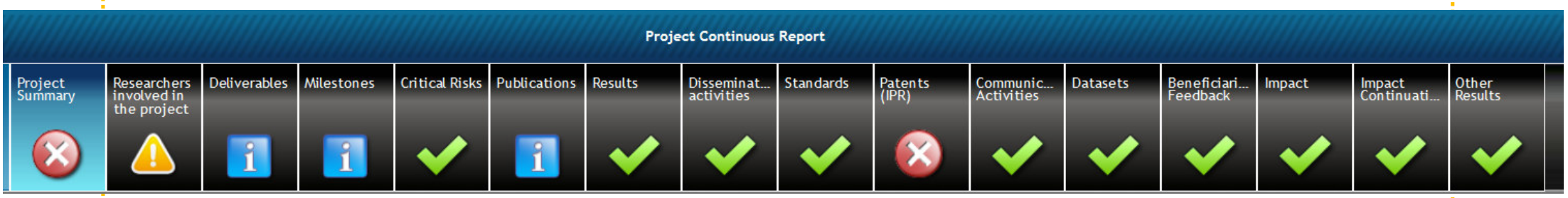
Financial: compliance with the cost eligibility rules

Other (non-financial) obligations: compliance with cross-cutting GA obligations

European Commission

Project reporting types

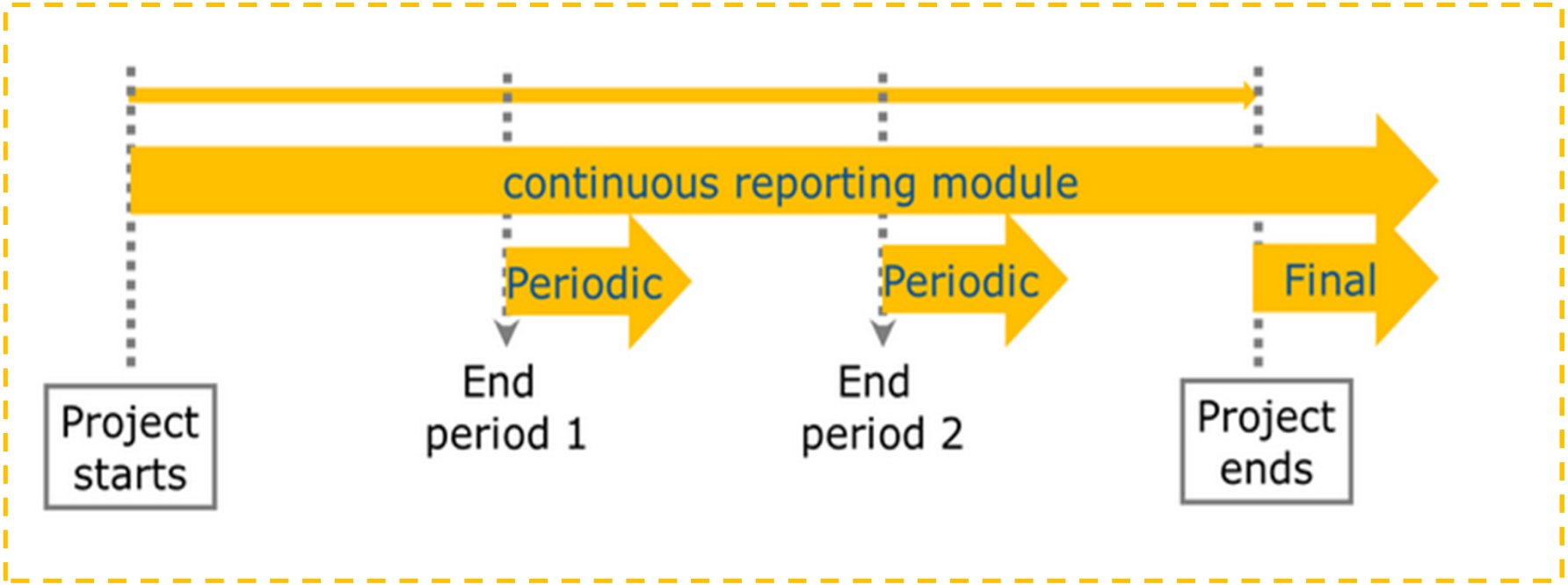
- Beneficiaries must **continuously** report on the progress of the action (e.g. **deliverables, milestones, outputs/outcomes, critical risks, indicators**, etc), in the Portal **Continuous Reporting tool** and in accordance with the timing and conditions set out in the Grant Agreement



- In addition, Beneficiaries must provide **periodic reports** to request **payments,** in accordance with the schedule and modalities set out in the Grant Agreement

European Commission

Project reporting types



RP1: 01/03/2024 – 31/08/2025
RP2: 01/09/2025 – 28/02/2027
RP3: 01/03/2027 – 31/08/2028 - FINAL

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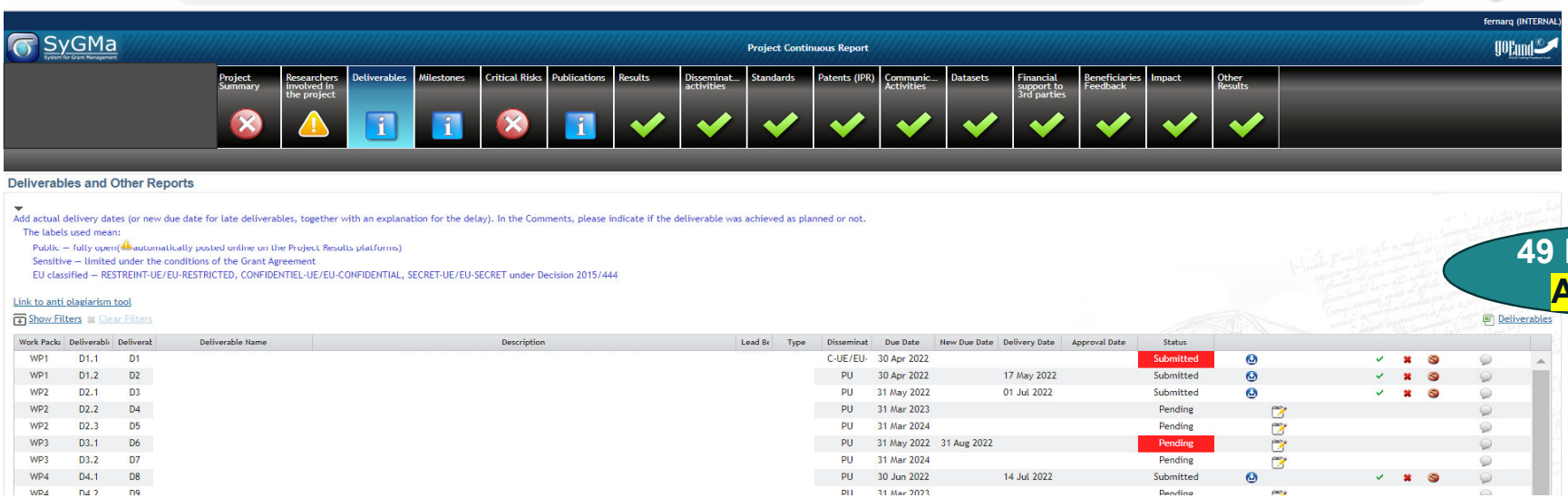
Continuous Reporting – Deliverables



49 Deliverables
All PUBLIC

- Deliverables marked as Public will be automatically published in CORDIS - Be particularly attentive to their quality
- If one deliverables will be delivered with delay - Get in touch with REA PO

European Commission

Periodic Report: Overview

WHEN
60 days after reporting period end

WHAT
Periodic Report

HOW
via Portal

(1) Technical report

By Coordinator with contributions from Consortium
Part A : structured tables with project information, generated automatically from Continuous Reporting
Part B: narrative description of the work carried out during the reporting period (uploaded as PDF)

(2) Financial report

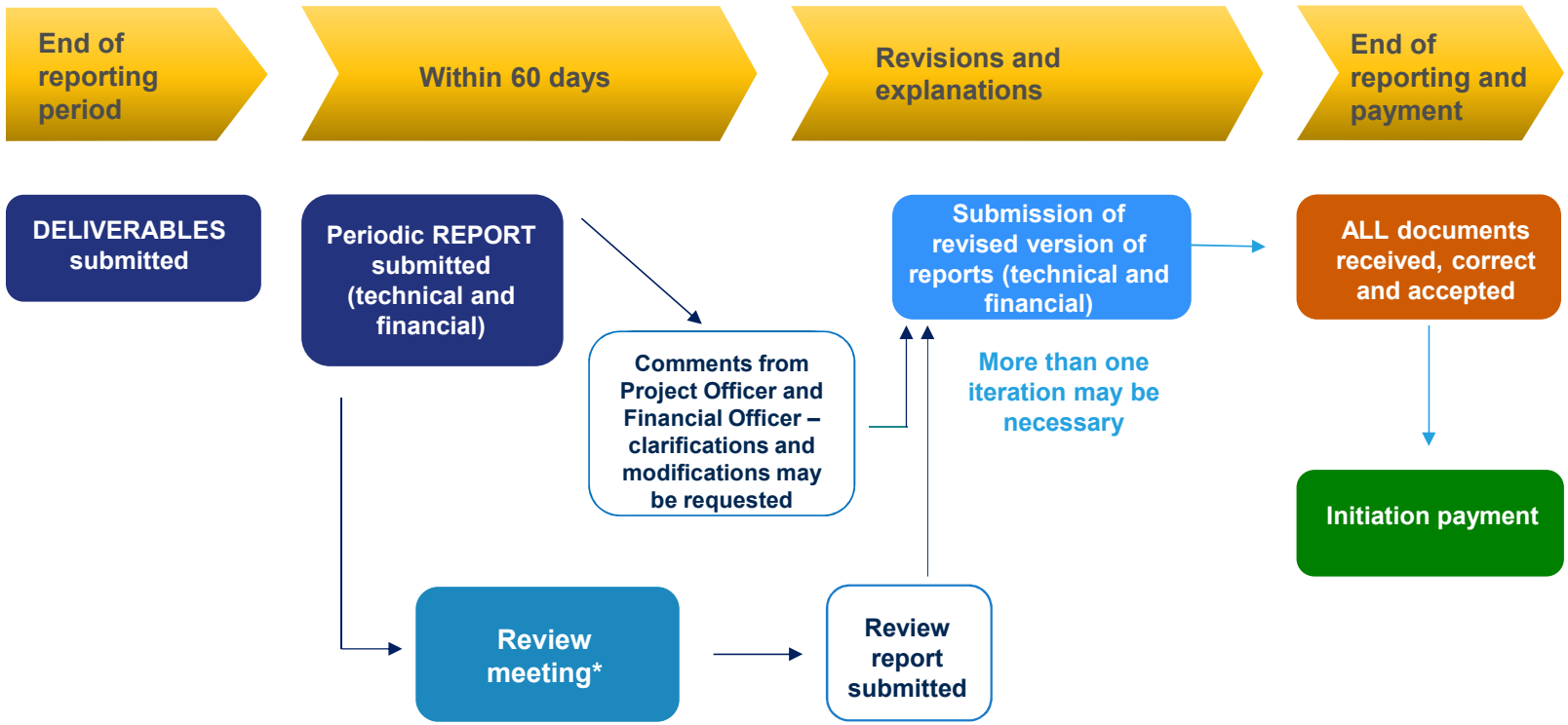
Individual Financial Statement for each Beneficiary
Explanation of the Use of Resources and information on subcontracting
Certificates on the Financial Statements (CFS)*

(*) Requested EU contribution to costs ≥ EUR 430 000.

Special threshold for beneficiaries with a systems and process audit: requested EU contribution to costs ≥ EUR 725 000.00

European Commission

Periodic Reporting: Process



*A review meeting might not be necessary, to be decided with PO

Trans-National Access (TNA) activities 1/2

- TNA available to external users:
  - in person (‘hands-on’),
  - remote scientific services: reference materials or samples, the remote access to a high-performance computing facility, etc.
- Open specific calls to invite researchers to apply for access
- Documentation needed to support/justify the amount of access reported
  - records of the names, nationalities, and home institutions of the users, nature and quantity of access provided)
- Selection of researchers/research teams
  - independent peer-review evaluation

Trans-National Access (TNA) activities 2/2

- The research team, or its majority, must work in countries other than the country(ies) where the infrastructure is located
  - exception JRC, ERICs and legal entities with international membership
- Third countries access permitted up to max cumulative access of 20% of the total amount
- The EU financial support covers the access costs incurred by the access provider in providing access to the selected researchers, as well as the travel and subsistence costs incurred in supporting visits to the infrastructure of these researchers (duration limited to 3 months)

Virtual Access (VA) activities

- Provided to users complying with RI's access policy, no formal selection process
  - e.g. access to databases available via Internet, or data deposition
- VA measured through **units of access** clearly defined in the GA and must be **periodically assessed by an external board**.
- The EU financial support covers the access costs incurred by the infrastructure, including the technological and scientific support

Financial reporting: single submission & single rejection

Technical report and all **Financial Statements** to be submitted by the Coordinator as a "**single package**"

- *If a beneficiary does not include its related financial statement in a periodic report, the **costs will be considered 'zero'** for this reporting period but the beneficiary can declare its costs with the next financial report (for the next reporting period)*

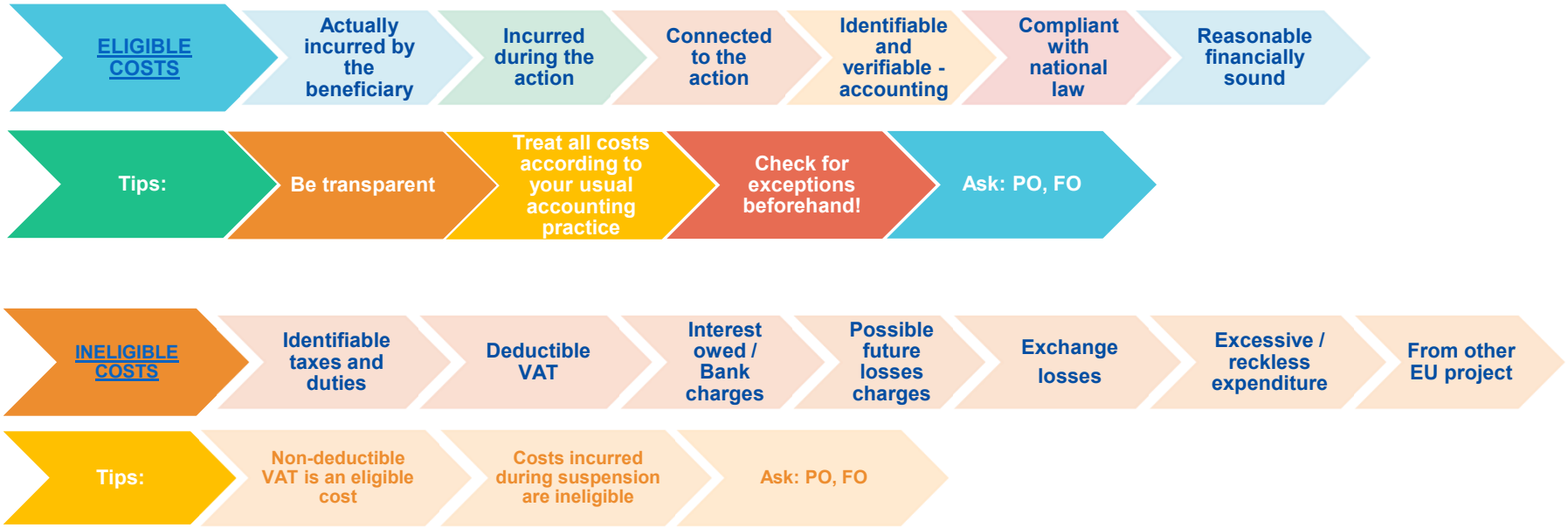
Full package rejected, if one document requires changes or corrections

"One iteration only" principle, if correction of the submitted package is required

- Payment will be processed on the basis of the information available *after the first resubmission;* no further opportunities to correct mistakes or provide additional information (i.e. corresponding costs will be rejected); except for final payment

European Commission

Financial reporting – eligibility of costs (art.6 GA)



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Financial management: some advice

- Personnel Costs: **keep time records** of the hours worked on the action (if not working full time on an EU project)
- **Meetings**: collect participants' signatures (especially if you reimburse or claim travel costs)
- Any **subcontracting**?
  - ✓ If you need a subcontract which is not planned in the Description of Action, ask approval to the REA Project Officer **beforehand,** as this may require an amendment to the Grant Agreement
- If one partner **overspends**, it is up to the Coordinator, in cooperation with the Consortium to decide internally how the EU contribution will be distributed (i.e. full amount if the overspending is due to anticipated work, or only the budget share agreed for the reporting period)

The unhappy path…

Article 28 – Reduction of the grant

Improper implementation/breach of obligations

May occur at payment of balance or after with pre-information letter

Article 30 — Suspension of payments

Suspicion of substantial errors, irregularities, fraud or serious breach of obligations

Contradictory procedure before suspending a payment

Article 31 — Suspension of implementation of the action

Costs not eligible during the time of suspension

Article 32 —Termination

Grant Agreement – effective date triggers final periodic reporting

Beneficiary – effective date triggers "termination report" + calculation of balance for beneficiary

Audits

Can be carried out during the entire lifetime of the project, by the European Commission, not later than **2 years** after the payment of the balance.
Types of audits: **financial** and/or **technical audits**

Keeping records: keep a clear account of the project activities during the reporting period (GA article 20)

Beneficiaries must keep records and other supporting documentation **up to 5 years** in order to prove the proper implementation and the costs declared as eligible.

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Amendments

Budget transfer is allowed between **beneficiaries** and among existing **budget categories** without filing an amendment

Action to be implemented **as described** in Annex I

If the **change** is **significant**, an **amendment** to the GA is needed

Amendment needed if:

- Change of **Annex 1** (description of action)
- Change of **Annex 2** estimated budget
- Change of **coordinator or its legal status**
- Change of the coordinator's **bank account** for payments
- Addition/removal of **linked third party**
- Change of action's **title**, acronym, **duration**, reporting **periods**
- Change of dissemination status of a deliverables (PU→SEN or SEN→PU)

TIP

Always contact the REA PO (Coordinator – PO) to discuss the typology and impact of change

European Commission

II. Cross-cutting aspects

- Impact
- Communication, Dissemination & Exploitation
- Open access
- Policy Feedback
- Ethics

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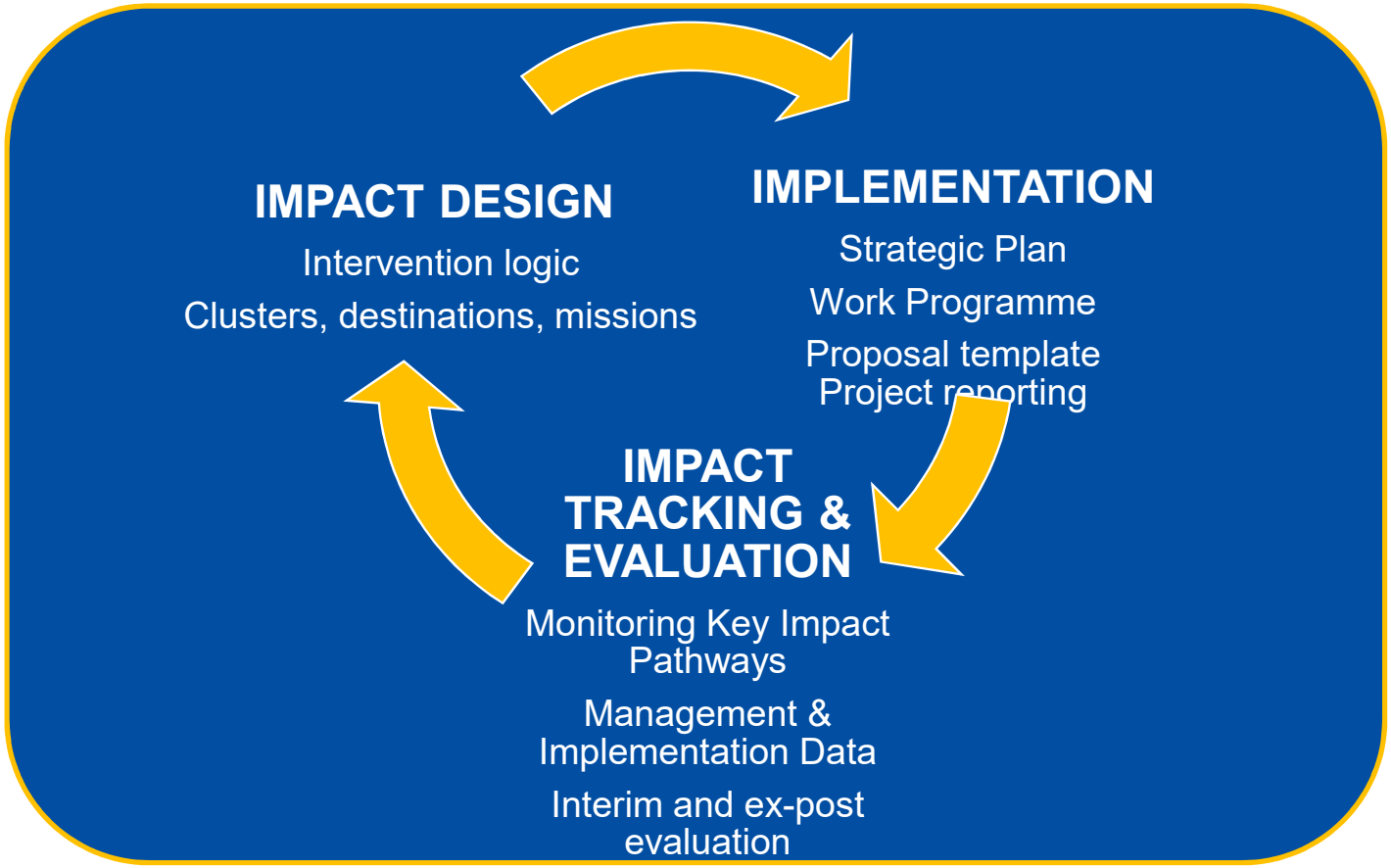
HORIZON EUROPE : Impact-driven Framework Programme



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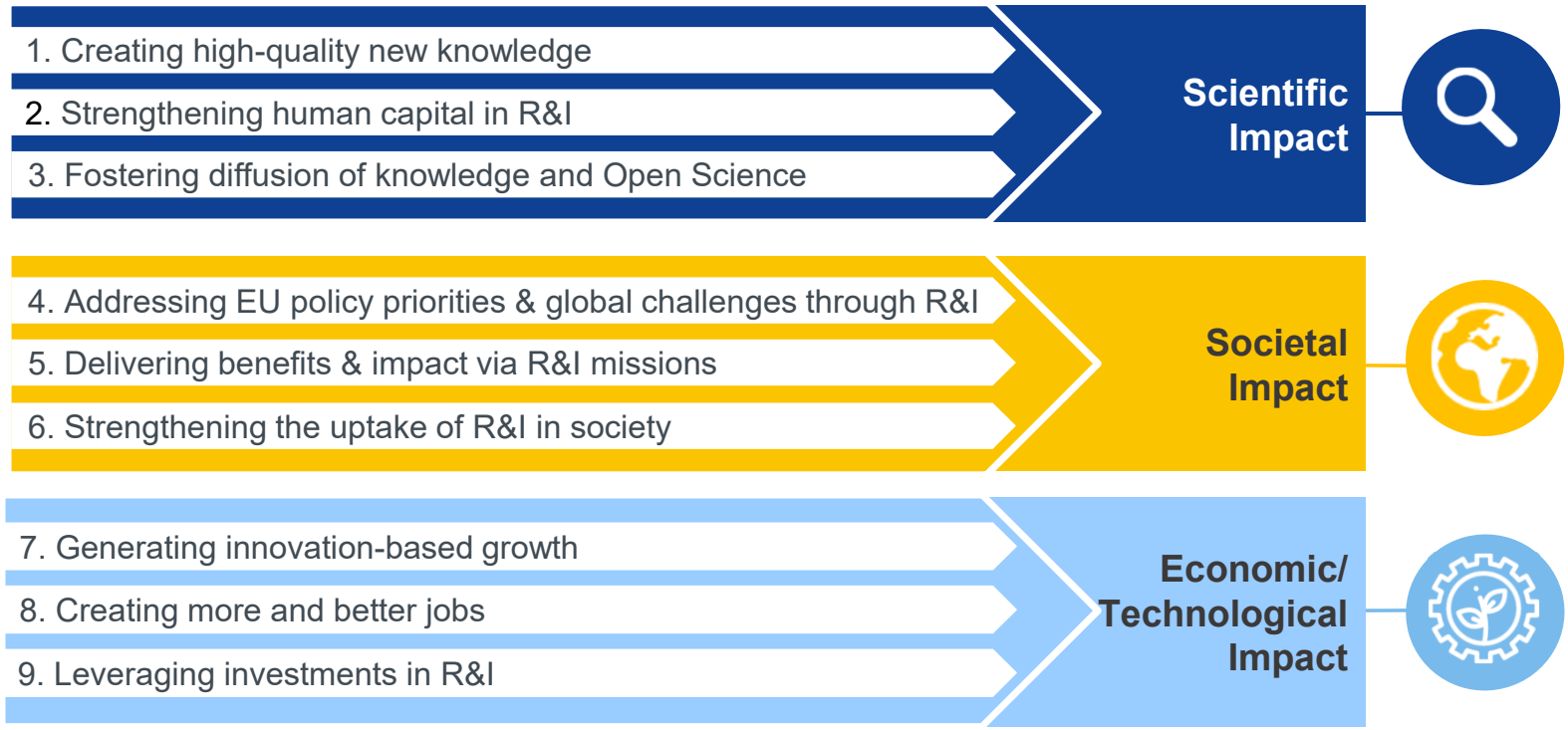
HORIZON EUROPE LEGISLATION: three types of impact, tracked with Key Impact Pathways



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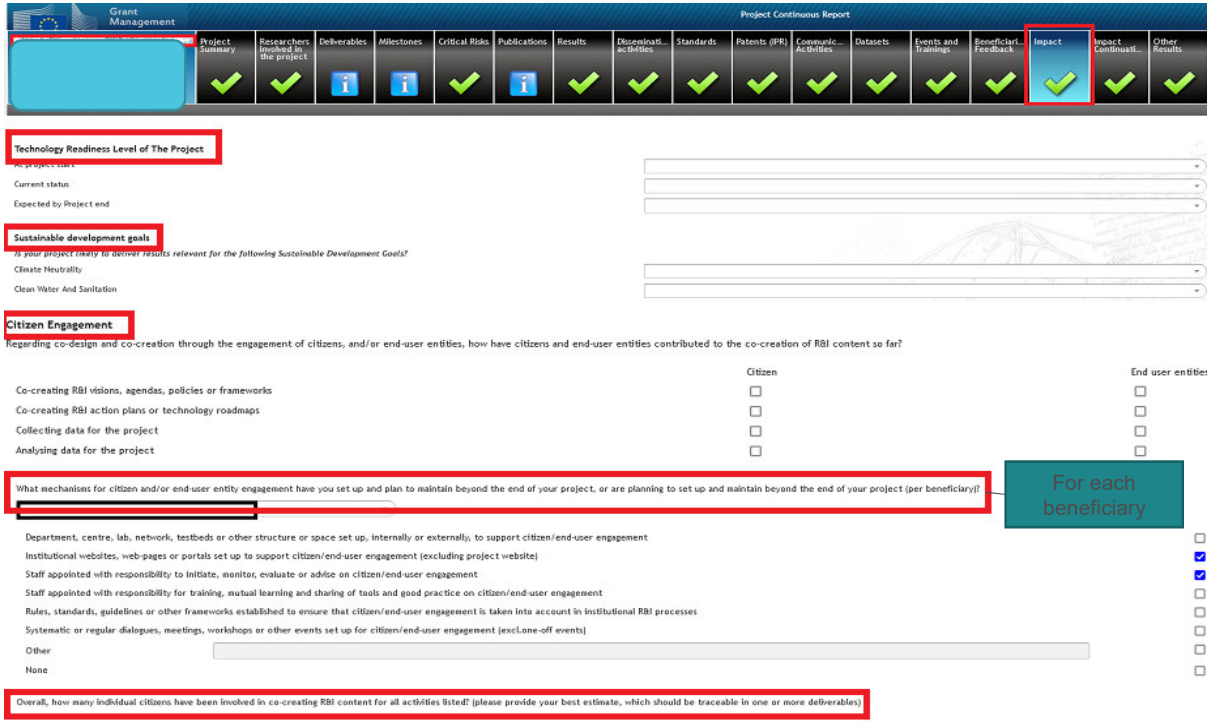
Reporting on Impact: Impact questionnaire

NEW in HE reporting: questionnaire to be used for the monitoring and evaluation of HE Programme performance + indication on progress of the project

Included in different SyGMa tabs

- *Impact*
- *Impact Continuation*
- *Beneficiaries feedback*

Important: quality of the data



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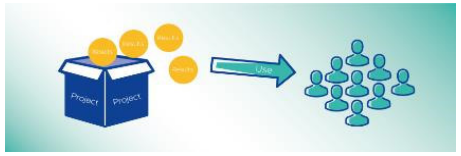
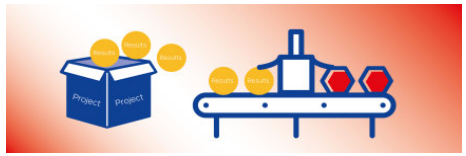
Communication, dissemination & exploitation

Communication	Dissemination	Exploitation	
			
Reach out to society and show the impact and benefits of EU-funded R&I activities, e.g. by addressing and providing possible solutions to fundamental societal challenges.	**Transfer knowledge & results** with the aim to enable others to use and take up results, thus maximising the impact of EU-funded research.	**Effectively use project results** through scientific, economic, political or societal exploitation routes aiming to turn R&I actions into concrete value and impact for society.	Objective
Inform about and promote the project AND its results/success.	**Describe** and **ensure results available** for others to **USE** ➡ focus on results only!	**Make concrete use** of research results (not restricted to commercial use.)	Focus
Multiple audiences beyond the project's own community incl. media and the broad public.	Audiences that may take an interest in the potential **USE** of the results (e.g. scientific community, industrial partner, policymakers).	People/organisations including project partners themselves that make concrete use of the project results, as well as user groups outside the project.	Target Audience

*D@E plan is a mandatory deliverable in HE

European Commission

Acknowledgement of EU Funding

Article 17.2 of the Horizon Europe grant agreement: Visibility - European flag and funding statement

Funded by the European Union

Co-funded by the European Union

- Use the European flag (emblem), not the European Commission logo
- Disclaimer (GA art .17.3) must be added in any publication/output

"Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the Agency. Neither the European Union nor the granting authority can be held responsible for them."

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Results and *Other results* in SyGMa

The **Results table** is the place where participants report on their results, focused on their content, for example **discoveries and theories, products, services, methods** etc.

These results may also produce publications, intellectual property rights, datasets, software, algorithms, protocols etc. that are encoded in separate tables, i.e. Publications, Datasets, IPR, Standards, **Other results** (for **Software, Workflows, Prototypes, Protocols**), which are part of the 'open science artefacts', if relevant.

Examples:

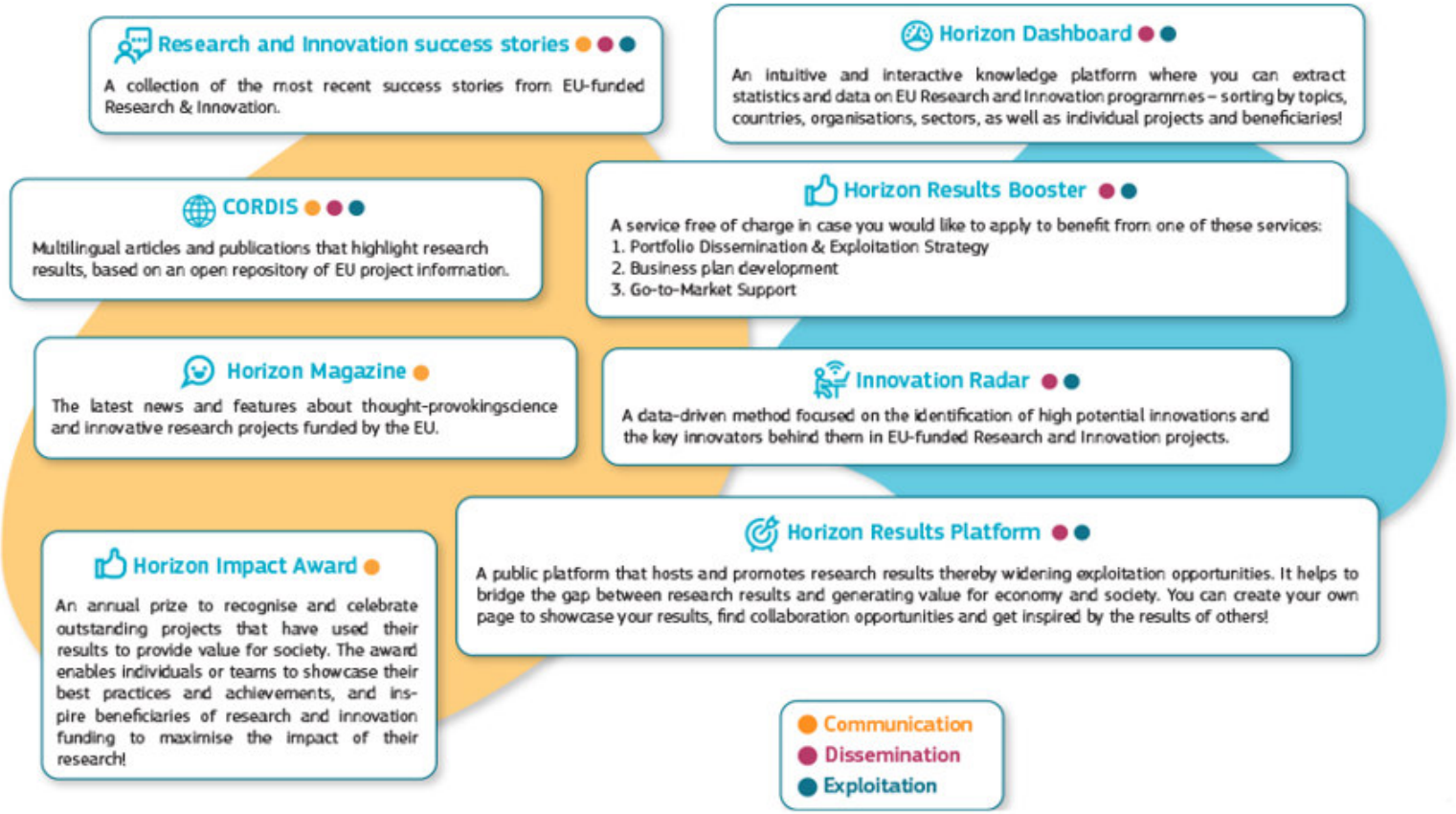
1. The project developed a new medical device, which is described in two publications and later patented. Instructions: participants list the medical device in the results table (as 'PROD: Product') and add publications to this product in dedicated sections. When participants have information about the patent application, they add it in a dedicated section.

2. The project developed a new scientific theory which is described in several publications. Instructions: participants list the name and potential of the theory in the results table (as 'SCI: Scientific discovery, model, theory') and add publications to this model in publications section.

3. The project develops a high potential industrial process and is currently at the stage of prototyping. Instructions: participants list the industrial process n the results table (as 'PROC: Industrial process') and indicate the prototyping stage under 'Steps undertaken towards exploitation'. If the there is a registered prototype, they add the registered prototype in the IPR section.

4. The project mainly focused on activities such as conferences, staff exchanges, or on investments in infrastructures. Instructions: participants list these as results and their potential in the results table.

Free-of-charge European Commission dissemination tools



European Commission

How can REA support you?

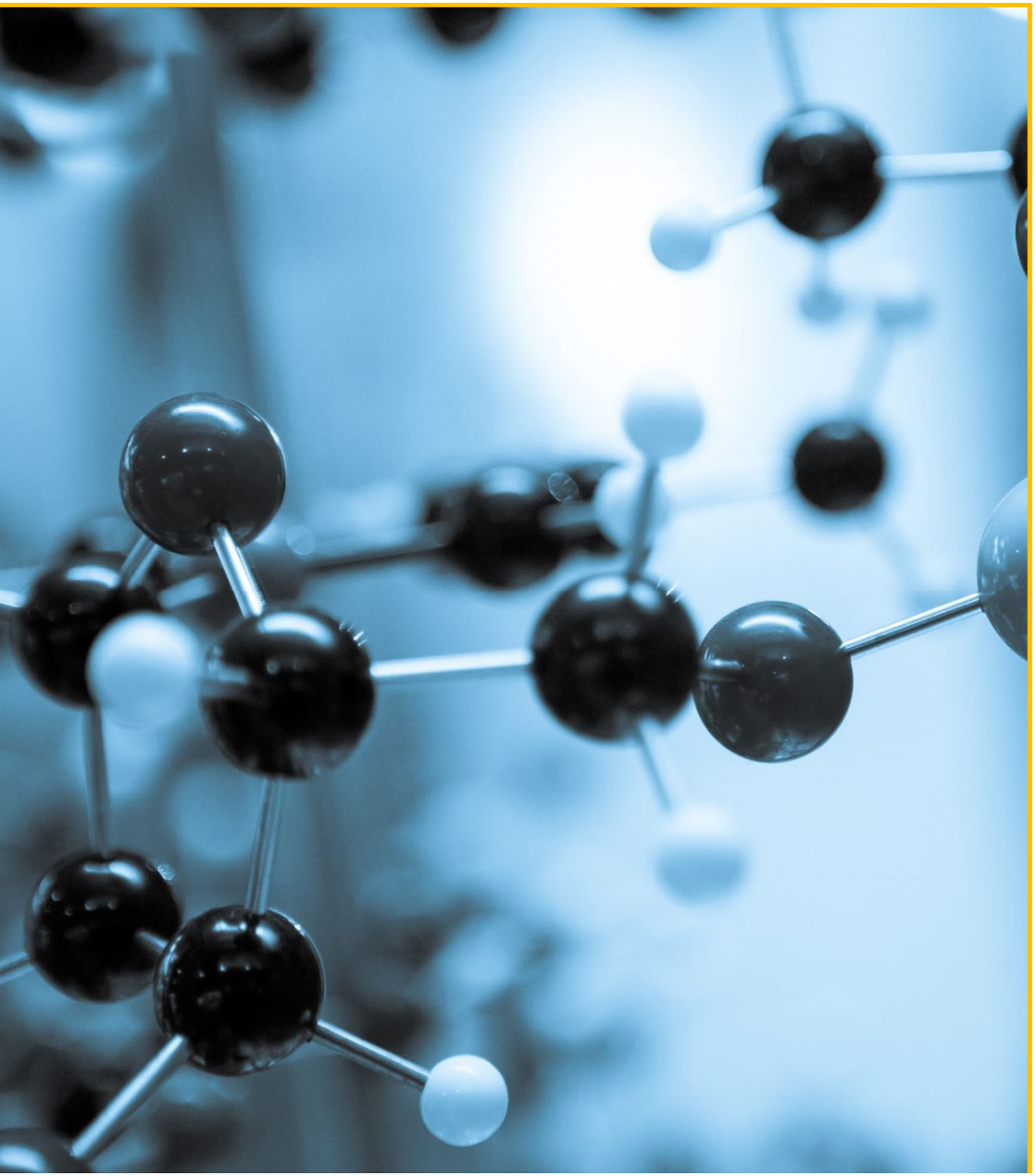
- Has your project won an important scientific award? Have you made a ground-breaking discovery and are featured in the press?
- **Don’t forget to inform your project officer!**

- REA’s Communication team can help promote by:

  - Highlighting & multiplying your news and results through our own and the Commission’s social media channels **(please tag us!)**

  - Proposing your project’s success story for inclusion in the European Commission’s free-of-charge communication channels.

European Commission



Open Science

FAIR (Findability, Accessibility, Interoperability and Reusability)

Open science (OS) is an approach based on **open cooperative work** and **systematic sharing of knowledge and tools** as early and widely as possible in the process, including active engagement of society.

Open science practices include:

- Early and open sharing of research (for example through preregistration, registered reports, pre-prints, or crowd-sourcing)
- Research output management including research data management (RDM) → EOSC
- Measures to ensure reproducibility of research outputs
- Providing open access to research outputs (e.g. publications, data, software, models, algorithms, and workflows) through deposition in trusted repositories
- Participation in open peer review
- Involving all relevant knowledge actors including citizens, civil society and end users in the co-creation of R&I agendas and contents (such as citizen science)

European Commission

Open Research Europe

Why Open Research Europe?

- **Support our open access policy** and beneficiary capacity to adhere to it and also enables **publishing post-grant**
- Leading by example in operationalising **open science principles** within scientific publishing and **enabling the European Research Area**
- Contribute to **transparency** and **cost-effectiveness** and explore **sustainable** open access publishing business models

What is Open Research Europe?

- **A peer-reviewed** publishing platform. Not a repository. Post-publication peer-review model. First you publish, then review takes place. Publication and review reports open access under CC BY licenses. Optional service for our beneficiaries at no cost to them.

More on Open Research Europe

European Commission

Ethics in Horizon Europe

Integral part of research from beginning to end

Participation in Horizon Europe requires compliance with the highest standards of research ethics and integrity, and with EU, national and international law.

Horizon Europe regulation 2021/695 (Articles 18 and 19) & **Grant Agreement** (Art 14, Annex 5): guiding principles and general obligations (including ineligible activities and specific rules e.g. in case of hESC/hE).

Before starting an action task raising ethical issues, the beneficiaries must have obtained all approvals or other mandatory documents needed for implementing the task, notably from any (national or local) ethics committee or other bodies.

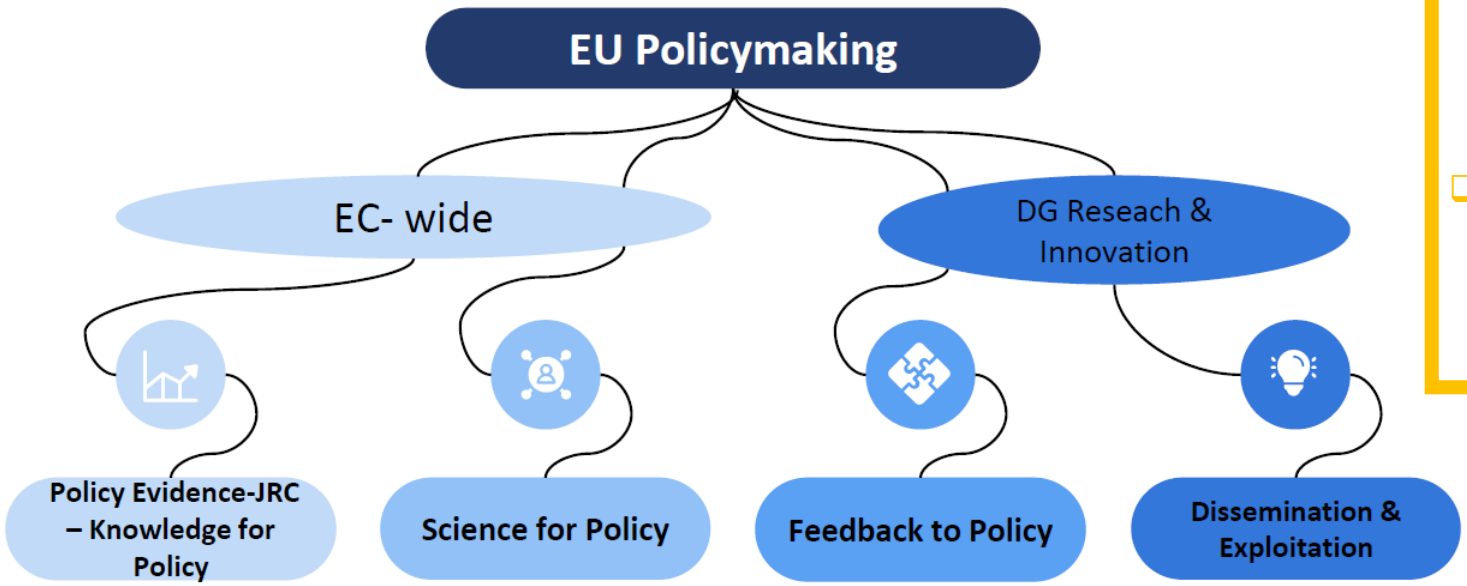
The documents must be kept on file and submitted by the coordinator to the granting authority upon request.

Please pay uttermost attention and contact the PO, whenever you modify activities with potential ethical issues, such as collect or process "personal data" (e.g. name, e-mail address,...), involve volunteers (informed consent procedure required), exchange data between EU – non-EU countries.

European Commission

Policy feedback

A mechanism through which your project results feed into current and/or future policy-making



Bridging the Gap between science and policy

Use of Research Results, Project to Policy, Research for Policy

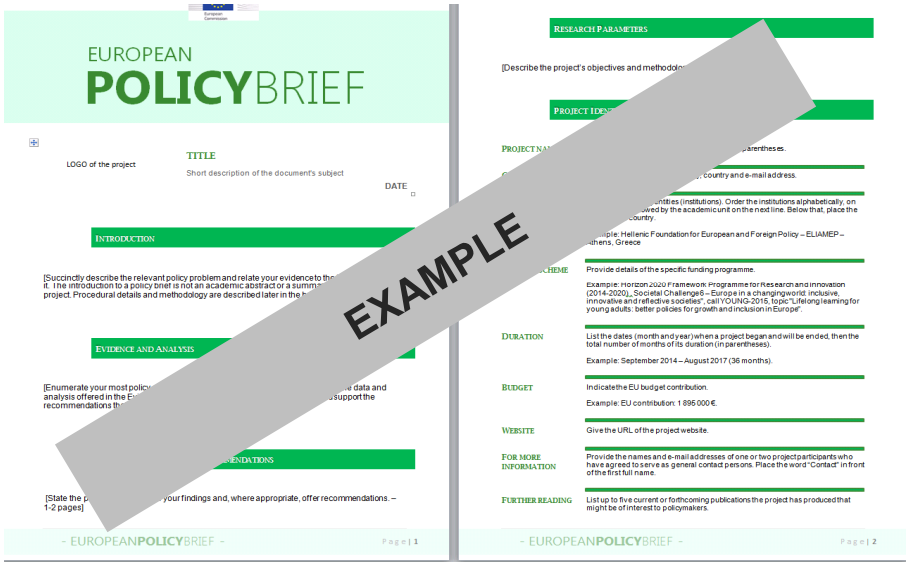
- Necessary for **evidence-based** policy design, implementation & evaluation
- Monitor the **achievement of policy objectives** and the **impact of existing policies** / legislation
- Identify **gaps, opportunities** and **potential synergies** for future policy design

European Commission

Policy Briefs

Main elements

- Adapted to each specific project
- Supports **knowledge transfer**
- Supports the EC in **monitoring achievements & impact**
- Basis for reflection on potential **recommendations/best practice**
- Means for ensuring evidence-based policy making within HE
- Can be based on a **template provided by REA**
  - **4 key aspects** to be addressed:
    - ➢Evidence and Analysis
    - ➢Policy implications and recommendations
    - ➢Sustainability and legacy
    - ➢Project objectives and methodology
- Add reference to specific deliverables of the GA



Most common omissions and good practices

- **Communicate/disseminate** (Annotated Grant Agreement, art 17)
  - More publicity you are giving to the results, more impact you have
  - Cite the grant in articles, presentations, etc..
- **Changes in the work plan / budget**
  - communicate to the PO and in the deviation section of the report
- **Deliverables/reports on time** (art 21)
- **TNA** – special section in reporting
- **Financial reporting** – keep all records (art 20)
- **Grants are as a rule not extended**

III. Extra Resources

European Commission

Useful resources

- HE Annotated Model Grant Agreement
- Horizon Europe Annotated Model Grant Agreement (p.154 ff for open science)
- Guidance on social media for EU funded R&I projects
- Horizon Europe – Funding Programme for Research and Innovation
- Factsheet ‘Open Science in Horizon Europe’
- Communication on ‘A new ERA for Research and Innovation’
- Pact for Research and Innovation in Europe

Thank you

European Commission

Agenda

Day 2

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13:00		**Lunch**		

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3.
RISEnergy concept

Peter Holtappels | KIT

Kick-off Meeting | 13.03.2024

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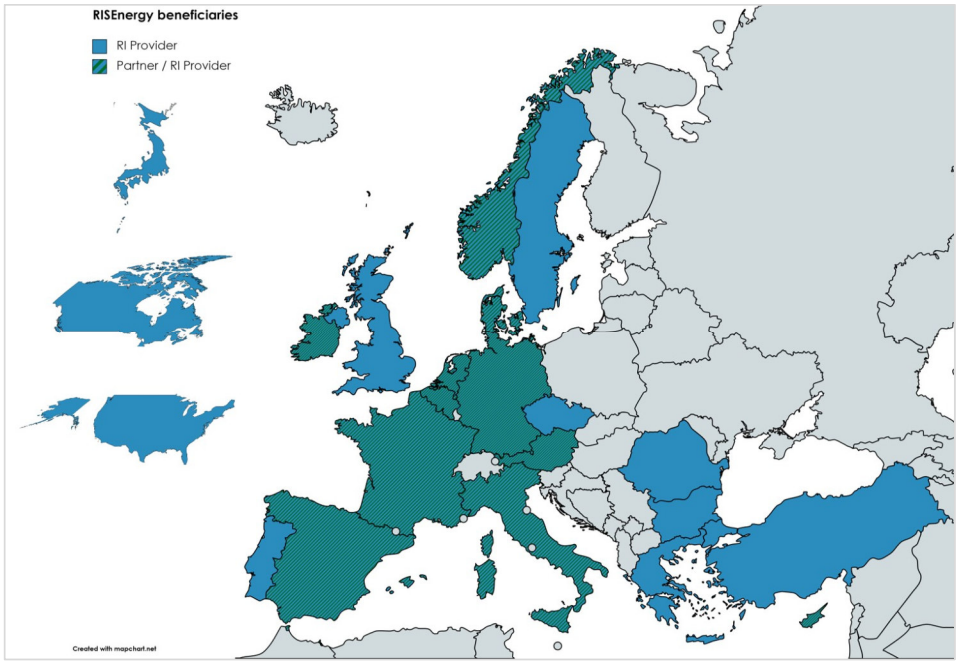
RISEnergy - Research Infrastructure Services for Renewable Energy

Figures and Numbers

- **Coordinator:** KIT (DE)
- **Duration:** 4,5 years (03/2024-08/2028)
- **Start:** 1st March 2024
- **Budget:** 14,5 Mio €
- **Participants:** 68 organizations
- **Research Infrastructures:** 84 (81 TNA + 3VA)
- **Countries involved:** 22



RISEnergy aims at initiating a **long-term, coordinated research effort** among leading private companies and research institutions with **common expertise related to energy technologies** to identify and promote ways to **scale up technologies within the EU.**

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Renewable Energy

10 target areas


Biofuels


CSP/STE


Offshore wind


Ocean energy


Photovoltaics


Energy storage

Hydrogen

Integrated grids


Materials


ICT

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Main Objectives

MO1: Enable research and innovation to increase energy efficiency and reduce the cost of energy technologies to foster wider use of renewables into energy systems through proactive innovation management on two levels

MO2: Provide transnational access (TA) on-site or remote and virtual access (VA), and training to facilities in a new constellation to support renewable energy technologies and systems: Provide more than 50,000 hours of access to major top level European and international world-leading research facilities

MO3: Set up a RI-ecosystem and reach out to all relevant stakeholders

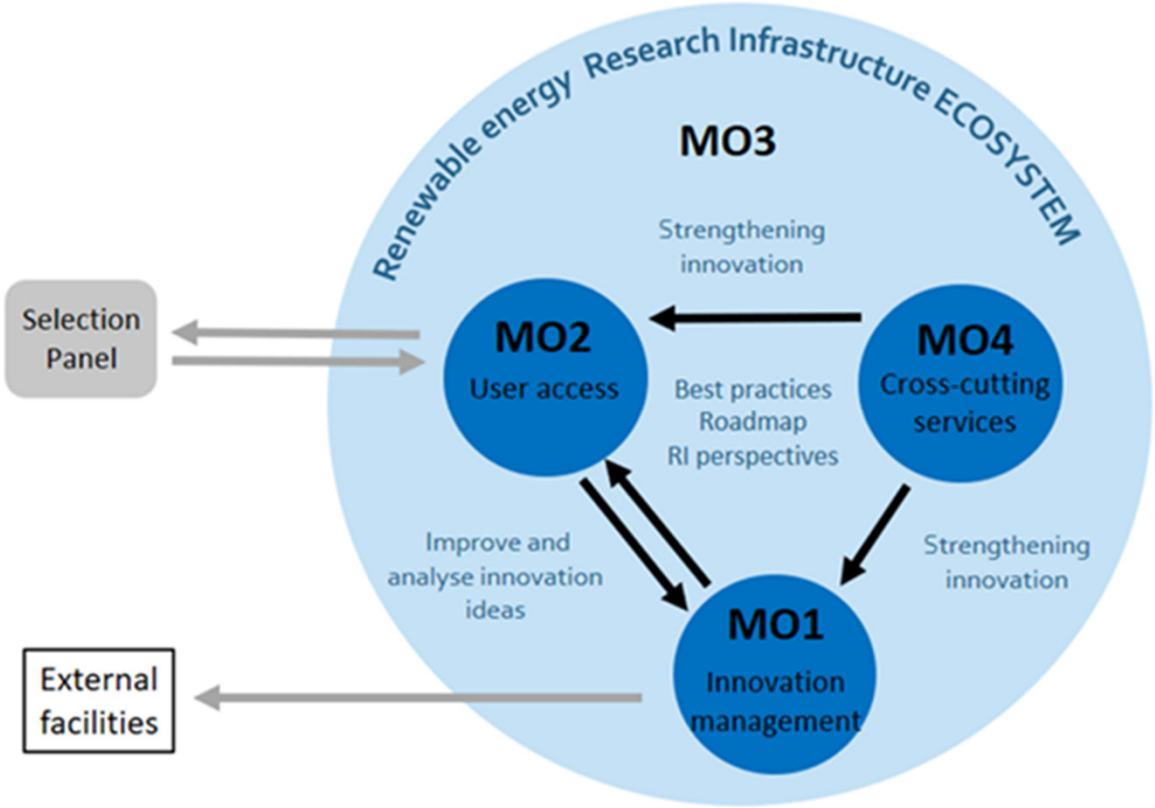
MO4: Provide comprehensive cross-RI services of unprecedented quality to support and accelerate renewable energy technologies and systems, TRL progression & system integration, fostering collaboration across technology disciplines and stakeholder groups

MO5: Education and training activities that address User needs for access planning, access execution, innovation acceleration and exploitation of cross-RI services, taking into account wide and diverse of background knowledge and time constraints of potential Users

MO6: Establish a European reference organisation to promote and coordinate international RI-access in energy research from and to Europe for a more effective use of relevant renewable energy RIs

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

Overall Approach



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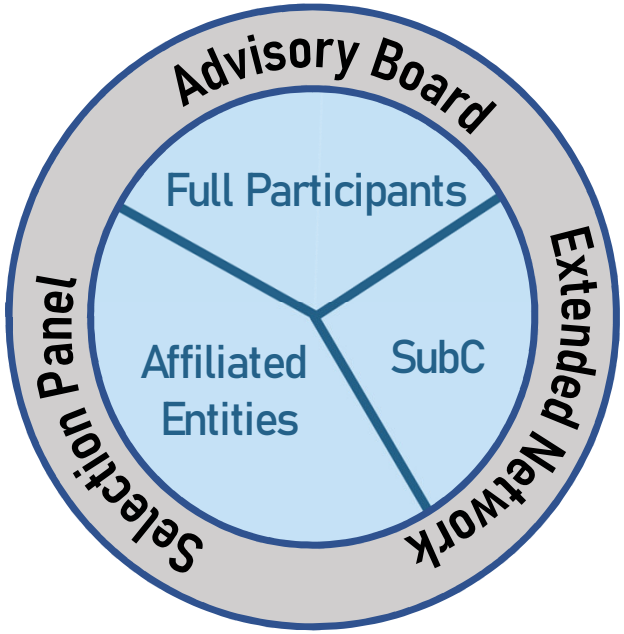
Project Structure

68 Participant Organizations



PROJECT CORE

- 17 Full Participants (P)
- 36 Affiliated Entities (AE)
  - to EERA AISBL
  - to EU-SOLARIS
  - to ECCSEL ERIC
  - to DERLab
- 15 Subcontractors (SubC)
  = Service suppliers

EXTERNAL LAYER

- Selection Panel (SP)
- Advisory Board (AB)
- Extended Network (EN)

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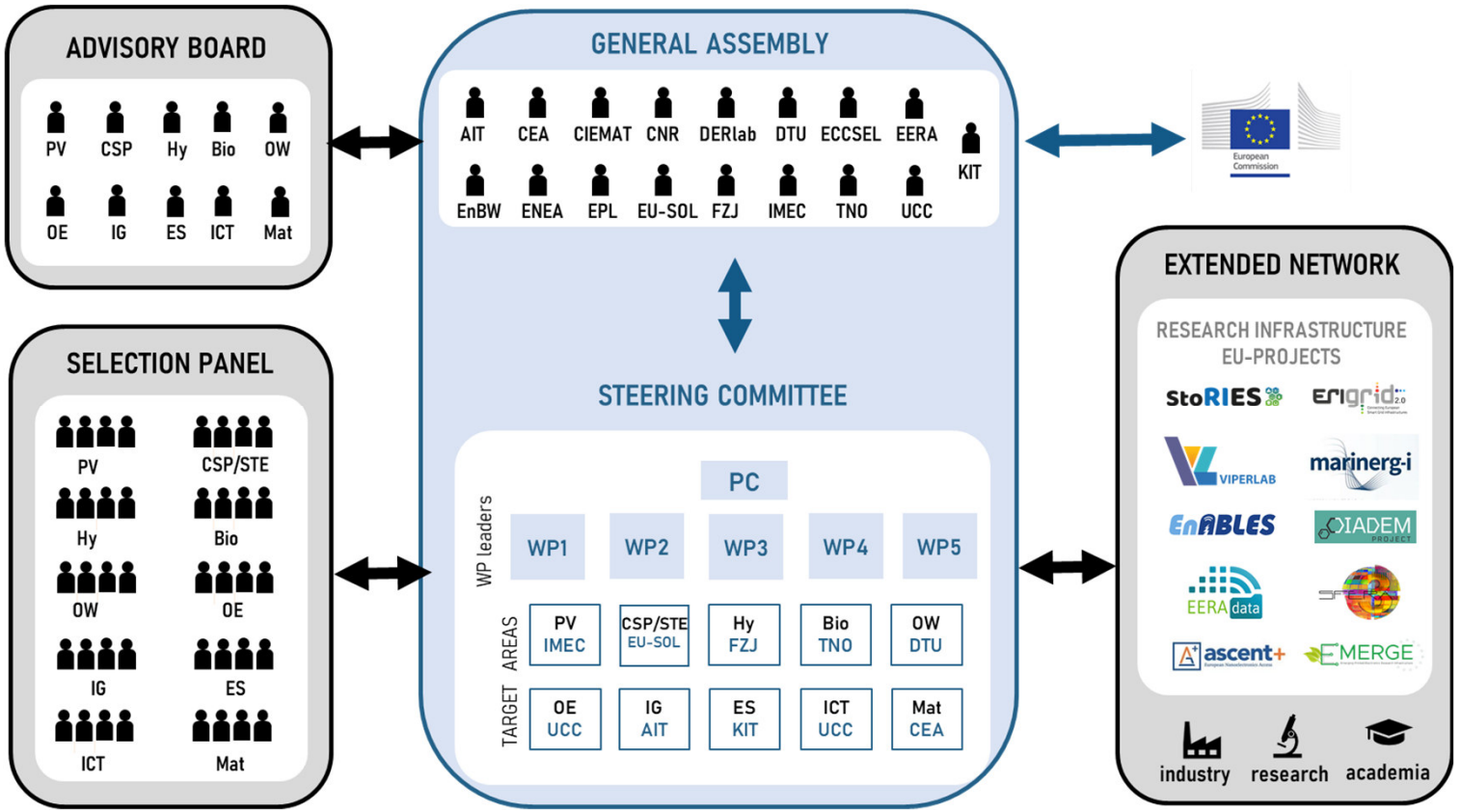
Mangement Structure



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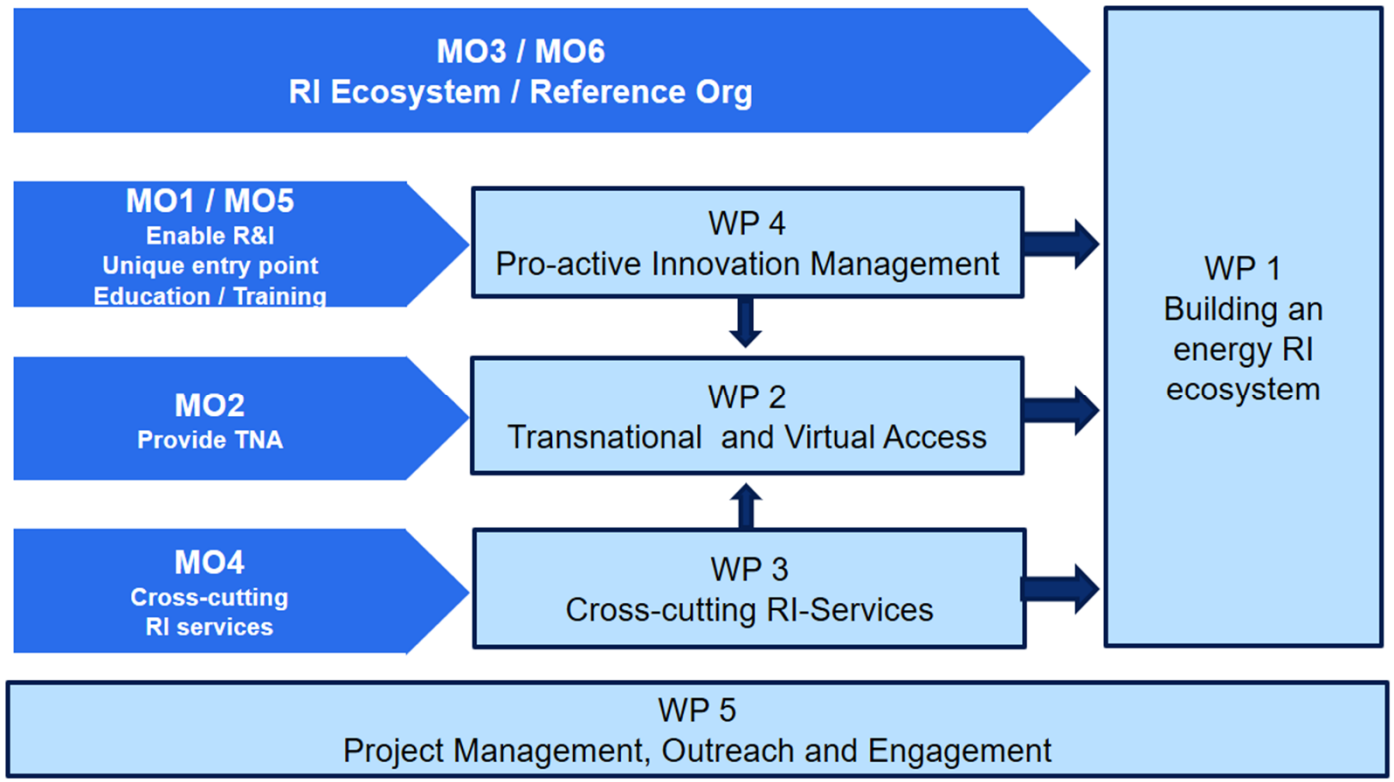
Work Packages



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Work Package Leaders

WP1
Building an RI ecosystem

WP1 Leader
Mónica de Juan
(EERA AISBL)

WP2
Transnational and virtual access

WP2 Leader
Olga Suminska-Ebersoldt
(KIT)

WP3
Cross-cutting RI services

WP3 Leader
Michael Hayes
(UCC)

WP4
Pro-active innovation management

WP4 Leader
Venizelos Efthymiou
(EPL)

WP5
Management, outreach & engagement

WP5 Leader
Myriam E. Gil Bardají
(KIT)

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

Agenda

Day 2

Time	TOP	RISEnergy Kick-off Meeting - Day 2	Speaker	
08:30		**Registration**		
09:00	**1.**	**Welcome & Agenda**	**Peter Holtappels (KIT), PC**	**(10')**
09:10	**2.**	**EC expectations**	**Anna Santoro (EC), PO**	**(20')**
09:30	**3.**	**RISEnergy concept**	**Peter Holtappels (KIT)**	**(20')**
	4.	**The scientific approach and the actions (WPs)**		
09:50	WP1	Building an energy R&I ecosystem	Mónica de Juan (EERA), WP1L	(15')
10:05	WP2	TNA and VA to world-class research infrastructures	Olga Sumińska-Ebersoldt (KIT), WP2L	(15')
10:20	WP3	Cross-cutting and RES services to support technolgies, systems & policy makers	Michael Hayes (UCC), WP3L	(15')
10:35		**Coffee break**		
11:00	WP4	Pro-active innovation management	Venizelos Efthymiou (EPL), WP4L	(15')
11:15	WP5	Project management, outreach & engagement	Myriam E. Gil Bardaji (KIT), WP5L	(15')
12:00	**5.**	**Administrative and financial management issues**	**Sabine Müller (KIT)**	**(15')**
12:15	**6.**	**General Assembly first decisions**	**Peter Holtappels (KIT), PC**	**(5')**
12:20	**7.**	**Advisory Board feedback**	**Peter Holtappels (KIT), PC**	**(30')**
12:50	**8.**	**Closing remarks and next steps**	**Peter Holtappels (KIT), PC**	**(10')**
13:00		**End of meeting**		
13:00		**Lunch**		

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4.
The scientific approach and the actions – Work Packages

Kick-off Meeting | 13.03.2024

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

RISEnergy

WP1 - Building an energy RI ecosystem

Mónica de Juan (EERA), Monica Fabrizio (CNR), Gabriella Ferruzzi (ENEA), Volker Röhling (EECSEL)

Kick-off Meeting | 13.03.2024

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

WP1 Objectives

- **Establish an inclusive ecosystem** by gathering relevant experts to facilitate discussions and provide feedback on the various activities of the project.
- **Facilitate the exchange of best practices and lessons learnt from relevant initiatives** and networks of RIs to enhance the accessibility and efficacy of transnational energy RI access.
- Conduct comprehensive **analysis of technological and research gaps** from diverse roadmaps and documents, providing the groundwork for forthcoming research efforts to address the challenges of the green transition.
- **Evaluate potential new ESFRI RIs** in the energy sector, with a particular emphasis on renewable energy.

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WP1 Structure

Tasks

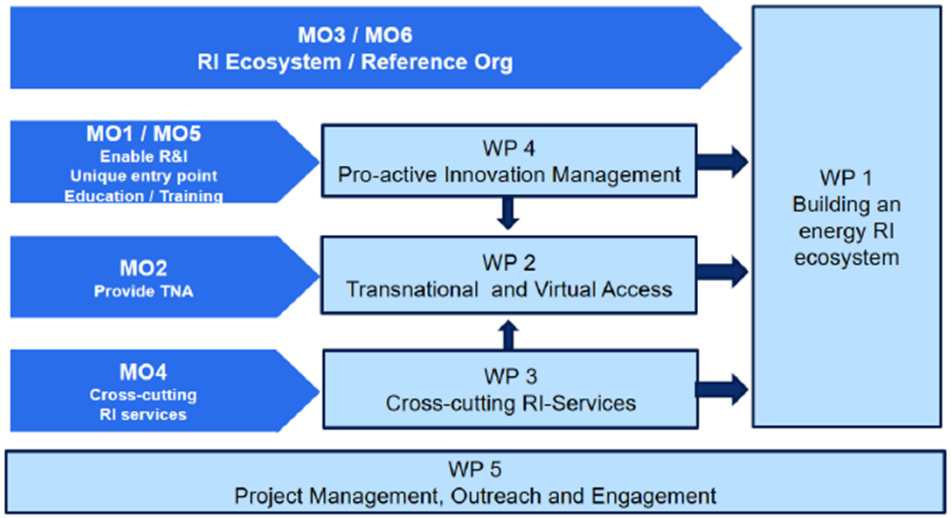
- **Task 1.1** Building an ecosystem on energy research infrastructures (EERA, KIT, AIT, UCC, DERlab, CIEMAT, EUSOLARIS) [M1-M54]
- **Task 1.2** Exchanging best practices with already existing RI networks (CNR, KIT, AIT, EPL, CEA, UCC, DTU, IMEC, ECCSEL, TNO, ENEA, DERlab, EU-SOLARIS) [M1-M54]
- **Task 1.3** Coordination with SET-Plan, EU and international initiatives on climate change (EERA, KIT, AIT, EPL, IMEC, CIEMAT, CNR, ECCSEL, EU-SOLARIS, EnBW) [M1-M54]
- **Task 1.4** Support for a RI services gap analysis for accelerating technologies and innovation (ENEA, KIT, AIT, EERA, DTU, EPL, DERlab, CIEMAT, ECCSEL, EU-SOLARIS) [M1-M54]
- **Task 1.5** Analyse the landscape for additional ESFRI initiatives (ECCSEL, KIT, UCC, EU-SOLARIS) [M1-M54]

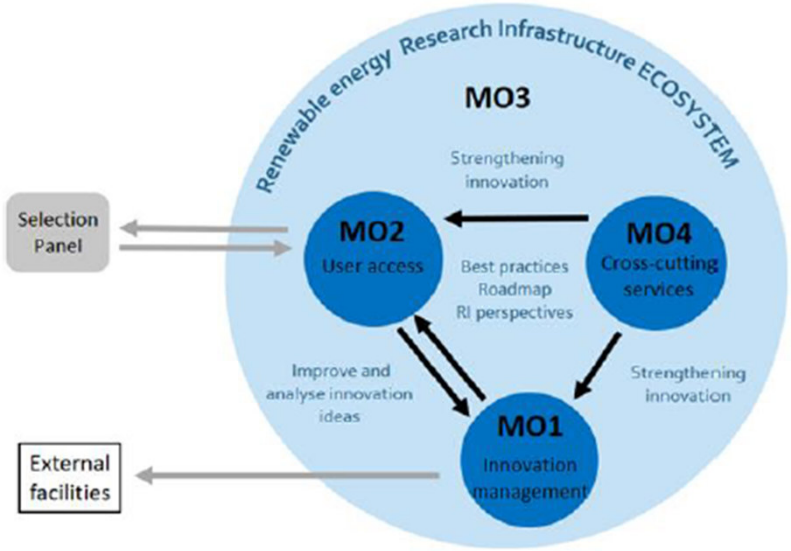
This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

WP1 Gantt (2024 – 2028)

	Mar 2024 - Aug 2024	Sept 2024 - Feb 2025	Mar 2025 - Aug 2025	Sept 2025 - Feb 2026	Mar 2026 - Aug 2026	Sept 2026 - Feb 2027	March 2027 - Aug 2027	Sept 2027 - Feb 2028	Mar 2028 - Aug 2028
D1.1 – Working Plan for the experts' groups	M6								
D1.2 – Terms of collaboration with the EU and international initiatives on climate change		M9							
D1.3 – Technology and systems gaps and needs in R&I to drive the energy transition			M18						
MS1 - Preliminary identification of technology and systems gaps and needs in R&I to drive the energy transition with optimal RES use			**M18**						
D1.4 – Summary of the webinars exchanging best practices with existing RI networks				M24					
D1.5 – Technology and systems gaps and needs in R&I to drive the energy transition -						M36			
MS2 - Searchable database on repositories & platforms							**M42**		
D1.6 – Landscape analysis Energy RIs									M53
D1.7 – Technology and systems gaps and needs in R&I to drive the energy transition -									M54
D1.8 – Best practice benchmark analysis in the context of energy RI landscape									M54
D1.9 – Summary of the collaboration activities with the EU and international									M54

WP1 Interdependencies with other WPs





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Task 1.1 Building an ecosystem on energy research infrastructures

Partners involved

- **Task leader**

EERA – European Energy Research Alliance

- **Main participants**

KIT – Karlsruher Institut für Technologie

AIT – Austrian Institute of Technology

UCC – Coláiste na hOllscoile Corcaigh, Éire / University College Cork, Ireland

DERlab – European Distributed Energy Resources Laboratories

Ciemat – Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas

EUSOLARIS ERIC

- **Other participants**

Internal and external experts:

- Representatives of key EU and international initiatives that define priorities and produce relevant documents
- Selection panel
- Networks of infrastructures, European RI Consortia and relevant projects

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

Task 1.1 Building an ecosystem on energy research infrastructures

Deliverables / Milestones / Events (March 2024 – February 2025)

- **Description**

Define and establish the ecosystem bringing together experts to consortium partners to foster discussions and provide feedback on the activities and results of the project.

- **Representatives of key EU and international initiatives** that define priorities and produce relevant documents. They will provide feedback to the analyses of T1.4 in defining future research needs to address the challenges of the green transition and/or participate in the activities of task 1.3.
- **Participants of the selection panel** to evaluate the proposals received in the calls of WP2.
- **Networks of infrastructures**, European RI Consortia and relevant projects that will participate in the knowledge-sharing activities of task 1.2 and task 1.5.

- **Main outcome**
- Establishment of a robust ecosystem to facilitate smoother collaboration among task leaders and experts, both internal and external.
- Streamlined support for task leaders: Offer comprehensive support to task leaders by assisting them in identifying and connecting with suitable experts.
- Facilitation of workshops/events in collaboration with relevant experts and initiatives, providing a platform for knowledge exchange.

Expected deliverable(s) in the first year: D1.1 Working Plan for the experts' groups

- **Expected milestone(s) in the first year:** None
- **Events/Workshops/etc**

This WP will provide logistical support to all events and workshops defined and organised by other task leaders.

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

Task 1.1 Building an ecosystem on energy research infrastructures

Gantt (March 2024 – February 2025)

EERA European Energy Research Alliance	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25
Conduct meetings with each Task and WP Leader to determine the criteria for required expertise. Define actions and a timeline, such as workshops, consultations, and feedback forms.												
Establish a protocol outlining the process for recruiting experts												
Identify internal expertise within the project partners and networks to determine available resources and potential gaps												
Create a database to catalog expertise												
Contact relevant organizations and experts to gather expressions of interest. Collect Letters of Support (LoS) to endorse selected experts.												
D1.1 – Working Plan for the experts' groups						M6						
Implementation - Organisation of meetings/ workshops for each expert group							TBD					

Task 1.2 Exchanging best practices with already existing RI networks

Partners involved

- **Task leader**

Consiglio Nazionale delle Ricerche

- **Main participants**

KIT Karlsruher Institut für Technologie
AIT Austrian Institute of Technology
EPL Technology Frontiers
cea
DERlab European Distributed Energy Resources Laboratories
EUSOLARIS ERIC
DTU
imec
TNO innovation for life
eccsel eric The European CCUS Research Infrastructure
ENEA Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile
UCC Coláiste na hOllscoile Corcaigh, Éire University College Cork, Ireland

- **Other participants**

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Task 1.2 Exchanging best practices with already existing RI networks

Deliverables / Milestones / Events (March 2024 – February 2025)

- **Description**

Identify pitfalls and sharing best practices and lessons learnt from the initiatives and networks of RIs by leveraging synergies for the respective technological community. The objective of the task is to provide to T1.5 a comprehensive overview of best practices for making transnational access to energy RIs available and effective. The task will contribute to enhancing and improving the experiences of infrastructure hosts, users and operators.

- **Main outcome**

Records of interviews to internal/external RI providers active in RI initiatives

Comprehensive overview of the best practice for effective transnational access to energy RIs.

- **Expected deliverable(s) in the first year**

None

- **Expected milestone(s) in the first year**

None

- **Events/Workshops/etc**

Online meetings with participants to other RI networks. The basis for the meetings will be the questionnaire to be prepared in cooperation with the T1.1 partners.

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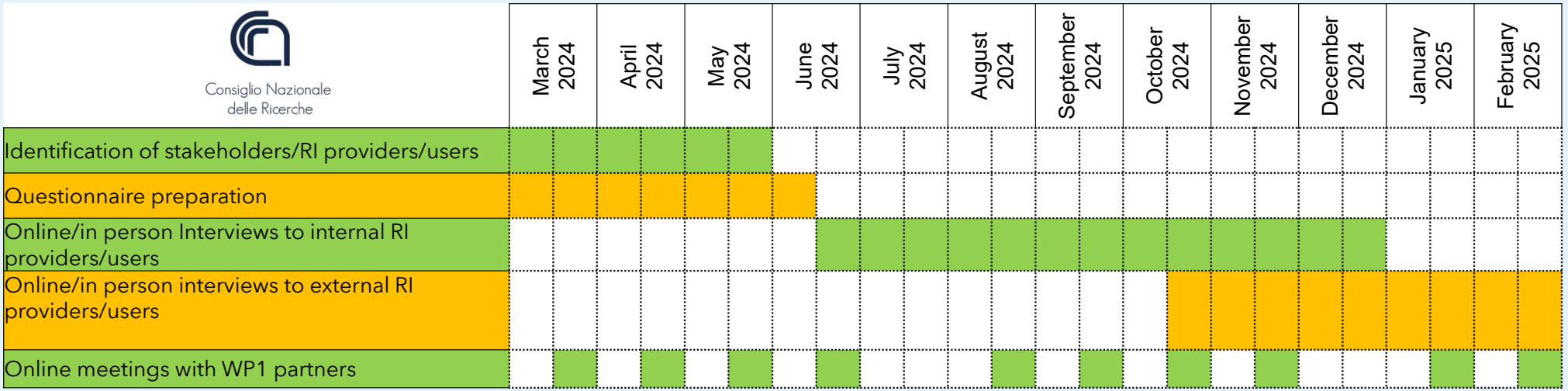
Task 1.2 Exchanging best practices with already existing RI networks

RISEnergy

Gantt (March 2024 – February 2025)



Task 1.3 Coordination with SET-Plan, EU and international initiatives on climate change

Partners involved

- **Task leader**

- **Main participants**

- **Other participants**
- Representatives of the EU Missions on Climate Change and Emission-free cities and the partnerships on Blue Economy, Hydrogen, Processes4Planet, CETP and Clean Steel
- Member states and Associate Countries (MS/AC) representatives, especially those involved in the SET Plan IWGs discuss national priorities and facilitate common actions.
- EU R&I community through close collaboration with the respective ETIPs

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Task 1.3 Coordination with SET-Plan, EU and international initiatives on climate change

Deliverables / Milestones / Events (March 2024 – February 2025)

- **Description**

Establishing connections with pertinent initiatives and stakeholders to provide valuable feedback and recommendations for the analysis conducted in task 1.4, which defines future research needs to address the challenges of the green transition. The provided information will be useful to provide input to their funding programmes and R&I agendas.

- **Main outcome**

Terms of collaboration with the EU and international initiatives on climate change

- **Expected deliverable(s) in the first year**

D1.2 Terms of collaboration with the EU and international initiatives on climate change

- **Expected milestone(s) in the first year**

None

- **Events/Workshops/etc**

Not in the first year

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Task 1.3 Coordination with the SET Plan, EU and international initiatives on climate change

Gantt (March 2024 – February 2025)

EERA European Energy Research Alliance	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25
Analysis and selection of pertinent initiatives needed for the purposes of T1.4												
Identify internal partners involved in the governing bodies of the different initiatives												
Define the expertise necessary from the chosen initiatives, collaboratively with the T1.4 leader, and detail the corresponding actions and timeline.												
Initiate contact with the selected initiatives.												
Organisation of meetings/workshops tailored to the needs of T1.4							TBD					

Task 1.4 Support for a RI services gap analysis for accelerating technologies and innovation

Partners involved

- **Task leader**

- **Main participants**

- **Other participants**

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

Task 1.4 Support for a RI services gap analysis for accelerating technologies and innovation

Deliverables / Milestones / Events (March 2024 – February 2025)

- **Description**

- Conduct comprehensive analysis of technological and research gaps from diverse roadmaps and documents, providing the groundwork for forthcoming research efforts to address the challenges of the green transition.

- **Main outcome**

- Identification of scientific instruments, tools, methods and strategies of research to enable innovative solutions .
- Definition of future research pathway to address the challenges of the green transition, while also paving the way to new societal challenges, to industrial applications, products and services.

- **Expected deliverable(s) in the first year**

None

- **Expected milestone(s) in the first year**

None

- **Events/Workshops/etc**

Not in the first year

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Task 1.4 Support for a RI services gap analysis for accelerating technologies and innovation

Gantt (March 2024 – February 2025)

	March 2024	April 2024	May 2024	June 2024	July 2024	August 2024	September 2024	October 2024	November 2024	December 2024	January 2025	February 2025
Paper Review and Data Collection Activities												
a) Literature review of scientific documents, European project deliverables, relevant documents.	■	■	■	■	■							
b) identification of keywords, scientific instruments, tools, methods and strategies of research, indicators and KPI.						■	■	■	■			
c) Identification of stakeholders and subjects interested to the innovation technology process in order to organize round table and interviews.										■	■	■

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Task 1.5 Analyse the landscape for additional ESFRI initiatives

Partners involved

- **Task leader**

- **Main participants**

- **Other participants**

- All Project participants
- ESFRI Strategy Working Group (SWG) on Energy
- ERIC Forum / European Commission RTD-ERIC
- Member states and Associate Countries (MS/AC) representatives, especially those involved in the SET Plan IWGs discuss national priorities
- EU R&I community through close collaboration with the respective ETIPs

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Task 1.5 Analyse the landscape for additional ESFRI initiatives

Deliverables / Milestones / Events (March 2024 – February 2025)

- **Description**

- Conduct a landscape analysis to consider options for potential new ESFRI RIs in the Energy area with focus on renewable energy.

- **Main outcome**
- Assessment of the implementation of existing and upcoming Energy RIs incl. multidisciplinary RIs
- Identified new important RIs and research demonstrators of pan-European interest in the Energy area
- Identified new potential implementation schemes of RIs specific to the energy domain
- Guidance to plan their implementation as an ESFRI RI to help to accelerate the development of industrial prototypes in the Energy sector

- **Expected deliverable(s) in the first year**

None

- **Expected milestone(s) in the first year**

None

- **Events/Workshops/etc**

Participation in events and workshops from other tasks (especially T1.2, T1.3 and T1.4) to get input to T1.5

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Task 1.5 Analyse the landscape for additional ESFRI initiatives

Gantt (March 2024 – February 2025)

	March 2024	April 2024	May 2024	June 2024	July 2024	August 2024	September 2024	October 2024	November 2024	December 2024	January 2025	February 2025
Initial meeting with other WP1 participants to start planning and to synchronise activities				■								
Initial plan for T1.5							■					
First input from ESFRI Energy SWG										■		
D1.6 Landscape analysis Energy RIs (M53)												

RISEnergy

4.

WP2 Transnational and Virtual Access to world-class Research Infrastructures

Olga Sumińska-Ebersoldt | KIT

Kick-off Meeting | 13.03.2024

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

WP2 Objectives

WP2 will **provide industrial and academic researchers with free transnational access** to a selection of the best European and international facilities in the fields of photovoltaics, CSP, biofuels, offshore energy (wind and ocean energy), energy storage, hydrogen, materials, ICT and integrated grids.

It will **cover research and innovation activities** in all the above areas carried out by Users who will be granted access to research facilities on the basis of common modalities and a **peer review process for the selection of User projects**.

In addition to the visiting grants for transnational access, RISEnergy also provides **free-of-charge access to virtual data and services** and widely used resources needed for research that are openly and freely available through communication networks. Virtual Access should offer casual access with minimal administrative overhead to attract new Users as well as simulation services are made available freely to a broader audience.

This WP will address **all tasks necessary for the management** of transnational access under RISEnergy.

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WP2 Structure

With the Transnational and Virtual Accesses activities industrial and academic researchers are targeted, providing them with the best environment to conduct research, validate, test and further improve their research results.

- Task 2.1: Management and Administration of Transnational Access (KIT, AIT) [M1-M54]
- Task 2.2: Provision of Transnational Access (KIT, All) [M7-M52]
- Task 2.3: Statistical analysis of Transnational Access Programme (EU-SOLARIS, KIT, AIT, CIEMAT) [M12-M54]

TA

- Task 2.4: Management and Administration of Virtual Access (AIT, KIT, FZJ, RWTH) [M1-M54]

VA

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

WP2 Gantt (2024 - 2028)

RISEnergy

	Mar– Aug 2024 – 2024	Sept– Feb 2024 – 2025	Mar– Aug 2025 – 2025	Sept – Feb 2025 – 2026	Mar– Aug 2026 – 2026	Sept – Feb 2026 – 2027	Mar– Aug 2027 – 2027	Sept – Feb 2027 – 2028	Mar– Aug 2028 – 2028
Ratification of Selection Panel (Kick-off meeting)	M1								
D2.1 Selection Panel	M4								
D2.2 Specification of the Virtual Access Programme	M6								
M3 VA scheme specified and agreed	M6								
D2.3 General Rules for TA according to access policy		M7							
D2.4 Access Policy Agreement between coordinator, RI owner and User		M7							
M4 First TA call (online announcement)		M7							
Calls - opening			M13	M19	M25	M31	M37	M43	
D2.5 Virtual Access Assessment Report (first 18 months)			M18						
D2.6 TA statistics report for period M1-M18				M20					
D2.7 Virtual Access Assessment Report (second 18 months)						M36			
D2.8 TA statistics report for period M19-M36							M38		
M5 Last TA call (online announcement)								M43	
D2.9 TA statistics report for period M37-M54									M54
D2.10 Virtual Access Assessment Report (third 18 months)									M54
MONTHS	**M1-M6**	**M7-M12**	**M13-M18**	**M19-M24**	**M25-M30**	**M31-M36**	**M37-42**	**M43-M48**	**M49-M54**

WP2

Gantt (March 2024 – February 2025)

	March	April	May	June	July	August	September	October	November	December	January	February
Ratification of Selection Panel (Kick-off meeting)												
2 Info Meetings for RI provider												
D2.1 Selection Panel				M4								
D2.2 Specification of the Virtual Access Programme						M6						
D2.3 General Rules for TA according to access policy							M7					
D2.4 Access Policy Agreement between coordinator, RI owner and User							M7					
First TA/VA call open							M7					
Preparation of the webpage with RI overview						M6						
Funds transfer to subcontractors (KIT)						M6						
M3 VA scheme specified and agreed						M6						
M4 First TA call (online announcement)							M7					
Pre-screening of the TA proposals from 1st call										M10		
Evaluation of the TA proposals from 1st call											M11	
First TA/VA to start												M12

Research and Innovation Programme under Grant Agreement N. 101131793

WP2 Interdependencies with other WPs

In the next 7 months

WP1

- Setting TA/VA rules with experts
  - TA calls definition (?)
  - Budget allocation between areas
- Establishing contact with other RI projects/programmes

WP3/WP4

- Determination of rules for the exchange of data and information from TA/VA projects

WP5

- Preparation of the webpage with:
  - RI overview with search engine (keywords, research area, localisation)
  - application system for the TA
- TA/VA dissemination preparation (LinkedIn, X, webpages of related projects/programmes eg. EERA)

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

WP2 Access - process

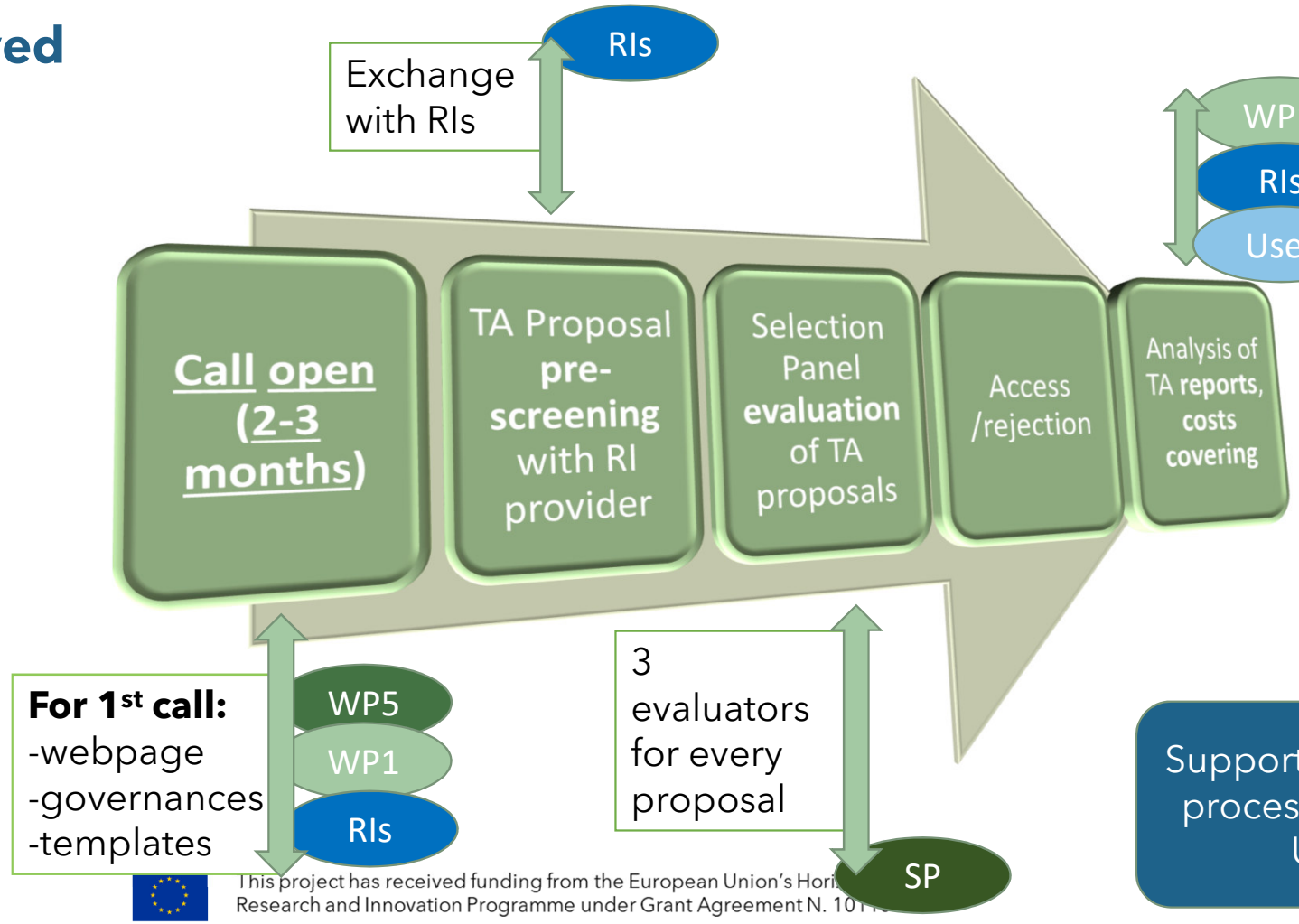
Partners involved

- Task leader

Karlsruher Institut für Technologie

- Main participant

AUSTRIAN INSTITUTE OF TECHNOLOGY



Support during the process to RI and User

This project has received funding from the European Union's Hori
Research and Innovation Programme under Grant Agreement N. 101

WP2 Virtual Access (Task 2.4)

VA services according to the EC's rules.

- **No need for proposal** submission
- **No individual support or supervision**
- The management and organisation of the VA will comprise:
  - Create an **online form and registration process** for new Users and their identification
  - Preparation of **VA governances**
  - Supervision of VA training activities
  - Control of VA provision and associated operating/technological support
  - Interaction with the consortium and external bodies for periodic assessment of the VA service

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

WP2 Access – TA/VA costs reimbursement

Partners involved

The funds are deposited in

KIT RISEnergy budget (other costs: 425 000 €)

KIT RISEnergy trust account

Karlsruher Institut für Technologie

Cost covering <u>after Access</u>

TA User costs

Travelling, housing & per diem. Directly after an access is finished and reports delivered. According to KIT travelling rules (2nd class flight & train, costs limits for hotels & per diem rates)

Information will be published online and in the D2.3.

RI costs

- Full participants
- Affiliated Entities to full participants
- Subcontractors to KIT, AIT, IMEC, UCC (individual rules)

With periodic payment Exceptions possible

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WP2 TA costs briefly

More details during info meetings for RIs
04.04.2024 10 a.m. CET
10.04.2024 2 p.m. CET
Invitations will be sent this week!!!

- **Unit costs** → G* number of units (hours/days/weeks)

Reference period	**from:**	01.01.2021	**to:**	31.12.2022
A. Direct eligible costs of providing access over the last two years [3] excluding personnel costs	Describe the direct eligible costs[2] for providing access to the installation over the reference period (the last two closed financial years[3] preceding the current one). Capital investments (including depreciation costs of equipment, infrastructure or other assets) and internally invoiced goods and services are ineligible costs unless otherwise specified in the Work Programme.			**Eligible Costs (€)**
	Costs of energy and water			144.000,00
	Costs of maintenance			50.000,00
	Costs of software licenses			30.000,00
	Costs of general services (shipping, libraries…)			60.000,00
	Costs of facility/installation management			10.000,00
	Cost of consumables			30.000,00
	Costs of specific scientific services (advanced velocimetry measurements)			0,00
			Total A	**324.000,00**
			of which subcontracting (A')	***100.000,00***
B. Personnel direct eligible costs needed to provide access over the last two years [3]	**Category of staff** [4]	**Person-Months**		**Personnel Costs (€)**
	Personnel costs (administrative, technical and scientific staff)	370		1.850.000,00
			Total B	**1.850.000,00**
	C. Indirect eligible costs: 25% x ([A-A']+B)			518.500,00
	D. Total access eligible costs over the last two years[3] = A+B+C			2.692.500,00
	E. Total quantity of access provided to all normal users of the installation (i.e. both internal and external) over the last two years[3]			400
	F. Unit cost =D/E			6731,25
	G. Unit cost charged to the project			6731,25
	H. Quantity of access offered under the project (over the whole duration of the project)			60
I.	**Access Cost on the basis of UC for the access offered under the project = G x H**	**15%**		**403.875,00**

- **Actual costs**

Access provision period (usually the project life-time)	**from:**	01.10.2023	**to:**	31.03.2028
A. Direct eligible costs of providing access to the selected user groups, excluding personnel costs	Describe the estimated costs that will be actually and solely incurred for providing access to the user groups selected for support under the action[6]. Capital investments (including depreciation costs of equipment, infrastructure or other assets) and internally invoiced goods and services are ineligible costs unless otherwise specified in the Work Programme.			**Eligible Costs (€)**
	Operation & Maintenance (consumables, maintenance) (considered for 1 day of access)			738,00
			Total A	**738,00**
			cting (A')	
B. Personnel direct eligible costs needed to provide access to the selected user groups	**Cate**		**Person-Months**	**Personnel Costs (€)**
	Scientific, technical and administrative staff, post-Docs (for 1 day of access)		0,1393	681,20
			Total B	**681,20**
	C. Indirect eligible costs: 25% x ([A-A']+B)			354,80
D.	**Actual Access Cost for the access offered under the project = A + B + C**			**1.774,00**

Keep records!!!

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4.

WP3 - **Cross cutting & RES RI-Services to support technologies, systems and policy makers**

Mike Hayes (UCC-TYN), Sawako Nakamae (CEA), Monica Fabrizio (CNR), Kourosh Malek (FZ-Juelich), Rafael Mayo Garcia (CIEMAT), Martina Haase (ITAS/KIT)

Kick-off Meeting | 13.03.2024

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

WP3 Objectives

Create cross-RI services to support and accelerate RES TRL progression & system integration, fostering collaboration across technology disciplines and stakeholder groups.

Supporting WP2, WP4 & WP5, this encompasses

- Identifying **ICT enabling technology platforms**, promoting and exemplifying their application usage
- Offering a **framework for digital services, systems and digital twins** incorporating DaaS (data as a service) & SaaS (simulation as service) connected to the EOSC paradigm, underpinned by FAIR open data management • Creation of **metadata services along the value chain** from materials (macro and ICT) to devices and systems to help Users find the most suitable metadata schema
- **Decision making support** incorporating sustainability KPIs and sociotechnical aspects, recommendations for future research, exploration of potential acceptance aspects for selected technologies, and enable derivation of common benchmarks for each technology

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

WP3 Structure

Tasks

- **Task 3.1 ICT enabled RES (WSN retrofit devices) (UCC,** AIT, EPL**) [M02-M53]**
- **Task 3.2 Framework for Digital Services and Digital twins (CIEMAT,** KIT, AIT, EPL, UCC, DTU, FZJ**) [M07-53]**
- **Task 3.3 Metadata service along the value chain (CEA,** FZJ, KIT, UCC, DTU, IMEC, CIEMAT, CNR**) [M02-M53]**
- **Task 3.4 Decision making for sustainability and sociotechnical aspects (KIT,** UCC, DERlab, CIEMAT**) [M01-M53]**

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WP3 Staff effort & leadership

Partner #	Partner	Effort (PM)	Leadership
1	**KIT**	30	T3.4
2	AIT	9	
3	**CEA**	9	T3.3
4	**CIEMAT**	22	T3.2
5	CNR	4	
11	DTU	10	
42	EPL	8	
51	FZJ	9.5	
52	IMEC	2	
54	**UCC**	38	WP3, T3.1
TOTAL		**141.5**	

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Task 3.1 ICT enabled RES (WSN retrofit devices)

Partners involved

- **Task leader**

UCC
Coláiste na hOllscoile Corcaigh, Éire
University College Cork, Ireland

- **Main participants**

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY

EPL TECHNOLOGY FRONTIERS

- **Other participants**

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Task 3.1 ICT enabled RES (WSN retrofit devices)

Deliverables / Milestones / Events (Mar 2024 – Feb 2025)

- **Description**
- Identify ICT enabling technology platforms for usage across multiple cross-cutting RES fields (e.g. PV, wind). Retrofit WSN devices on, in or near equipment & infrastructure for:
  - Condition & energy efficiency monitoring of equipment
  - Interoperability for EDM, SES, DER, EEB optimization, etc.
- A major portion of the effort will be dedicated to Autonomous/Long battery life solutions (energy harvesting, power management)
- Exemplify the value proposition but also attract TAs and VAs in WP2

- **Expected deliverable(s) in the first year**

None

- **Expected milestone(s) in the first year**

None

- **Events/Workshops/etc**

None

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Task 3.2 Framework for Digital Services and Digital twins

Partners involved

- Task leader

Ciemat
Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas

- Main participants

KIT Karlsruher Institut für Technologie

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY

JÜLICH Forschungszentrum

EPL TECHNOLOGY FRONTIERS

UCC Coláiste na hOllscoile Corcaigh, Éire University College Cork, Ireland

DTU

- Other participants

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Task 3.2 Framework for Digital Services and Digital twins

Deliverables / Milestones / Events (Mar 2024 – Feb 2025)

- **Description**
- Establish open science processes and methodical frameworks to ensure quality & maturity of data and tools for RISEnergy's thematic & core services.
- Adopt FAIR data principles, automatically validated via metadata analysis & machine-actionable features.
- Provide a centralized service for integrating digital artifacts checking & validating FAIR data practices, integrating them into the framework for validation, delivery and deployment of software components
- Metadata and ontologies will be synergized and a first-generation recommendation model included in the metadata marketplace.

- **Expected deliverable(s) in the first year**

D3.1 Scientific Data Guideline (SDG) CIEMAT [M12]

- **Expected milestone(s) in the first year**

None

- **Events/Workshops/etc**

None

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Task 3.3 Metadata service along the value chain

Partners involved

- **Task leader**

- **Main participants**

- **Other participants**

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Task 3.3 Metadata service along the value chain

Deliverables / Milestones / Events (Mar 2024 – Feb 2025)

- **Description**
- Help Users find the most suitable metadata schema spanning ENTIRE RISEnergy innovation chain from materials to devices (macro & ICT) & integrated systems
- Facilitate curation/submission of User-produced data (experimental or computational) through

  1. Summarising use cases for structured metadata application along the innovation chain

  2. Identifying and compiling existing (meta)data platform and repositories on materials, devices and systems relevant to the 8 RES technologies of the project.

  3. Guiding RI Users to most appropriate metadata platforms/data repositories based materials studied and applications through a searchable database.

- **Expected deliverable(s) in the first year**

D3.2 Use cases and list of existing data platforms/repositories (CEA) [M12]

- **Expected milestone(s) in the first year**

None

- **Events/Workshops/etc**

None

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Task 3.4 Decision making for sustainability and sociotechnical aspects

Partners involved

- **Task leader**

- **Main participants**

- **Other participants**

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

Task 3.4 Decision making for sustainability and sociotechnical aspects

Deliverables / Milestones / Events (Mar 2024 – Feb 2025)

- **Description**
- Provide a sustainability KPI overview of RISEnergy technologies (e.g. technoeconomic and LCA based)
  - Show potential environmental impact (global warming, health etc.) & techno-economic values (e.g. €/kWh, CAPEX and OPEX).
- From these derive potential implications to provide top level recommendations
- Create & test with stakeholders a decision-making tool and framework
  - Allows integration of different indicators for sustainability assessment to derive recommendations and to benchmark new technologies against existing ones
- Do a workshop & survey with wider stakeholder groups.

- **Expected deliverable(s) in the first year**

None

- **Expected milestone(s) in the first year**

None

- **Events/Workshops/etc**

None

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WP3 Deliverables & Milestones

D3.1 Scientific data guideline (SDG) (CIEMAT) R PU **M12**

D3.2 Use cases and list of existing data platforms/ repositories (CEA) DATA PU **M12**

D3.3 Report/portfolio of 'ICT enabling' benchmark specifications (UCC) R/ DEM PU **M18 (initial) M44 (updated)**

D3.4 Description and exploitation of the digital framework (DDP) (CIEMAT) R PU **M24**

D3.5 White paper on relevant sustainability KPIs (KIT) R PU **M24**

D3.6 Searchable database for Users for finding the "right" repositories /platforms (FZJ) DATA PU **M30 (initial) M42 (updated)**

D3.7 Decision making framework and tool (KIT) DEM PU **M36**

D3.8 White paper on 'ICT enabling' (UCC) REP PU **M50**

MS 6 RISEnergy digital framework and metadata central service available M18 Operative link

MS 7 Basic functions of the decision support tools tested M24 Internal short report

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WP3 Interdependencies with other WPs

- WP3 activities will support TA & VA activities (WP2) identifying and exemplifying synergies between REs & ICT disciplines via feasibility studies, model and creation of data sets.

- For example it will demonstrate the value add of retrofitting (temporarily or permanently) WSN modules on, in or near equipment to monitor and optimize device and system performance, detecting anomalies at development, installation and operations phases

- Similarly, material & outputs will be used in WP4 (innovation and training) & WP5 dissemination and outreach) for informing, educating and disseminating, building an extended ecosystem of multi-disciplinary collaborators, cross-connecting and synergising ICT & RES disciplines

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WP3 Gantt (2024 – 2028)

	Mar- Aug 2024 - 2024	Sept - Feb 2024 - 2025	Mar- Aug 2025 - 2025	Sept - Feb 2025 - 2026	Mar- Aug 2026 - 2026	Sept - Feb 2026 - 2027	Mar- Aug 2027 - 2027	Sept - Feb 2027 - 2028	Mar- Aug 2028 - 2028
MS10 Kick-off meeting (GA1)	M1								
D3.1 Scientific data guideline (SDG)		M12							
D3.2 Use cases and list of existing data platforms/ repositories		M12							
MS11Research infrastructure platform established	M6								
Project meeting (GA2)		M12							
D3.3 Report/portfolio of 'ICT enabling' benchmark specifications			M18 (initial)					M44 (update)	
MS 6 RISEnergy digital framework and metadata central service available			M18						
RP1 (First Review)			M18	(M21)					
Project meeting (GA3)				M24					
D3.4 Description and exploitation of the digital framework (DDP)				M24					
D3.5 White paper on relevant sustainability KPIs				M24					
MS 7 Basic functions of the decision support tools tested				M24					
Project meeting (GA4)						M36			
RP2 (Second Review)						M36	(M39)		
D3.6 Searchable database for Users for finding the "right" repositories /platforms					M30 (initial)		M42 (update)		
D3.7 Decision making framework and tool						M36			
D3.8 White paper on 'ICT enabling'									M50
RP3 (Final Review)									M54
Final Conference									M54

REF MATERIAL FROM PROPOSAL SUBMITTED

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

REF MATERIAL

Task 3.1 ICT enabled RES (WSN retrofit devices) (UCC, AIT, EPL) [M02-M53]

Identify ICT enabling technology platforms, promoting and exemplifying their application usage across multiple cross-cutting RES fields (e.g. PV, wind). Most of the focus is on the disruptive value proposition of retrofitting WSN devices on, in or near equipment and infrastructure bringing the following benefits: • Condition and energy efficiency monitoring of equipment • Interoperability for EDM, SES, DER, EEB optimization, etc. A major portion of the effort will be dedicated to • Autonomous/Long battery life solutions (energy harvesting, power management) A major impediment to ICT adoption is that WSN devices need significantly longer battery life than is commercially available for them to deployed at large scale. This requires a combination of better batteries, micropower energy harvesting as well as WSN device collaborative eco-design amongst stakeholders based on the reallife sensing and data processing requirements as well as exploiting the ambient energies available. Activities in the task relate to identifying specific examples of the potential benefits of WSN devices with project partners across various fields and creating a portfolio of ready-made examples (specifications and use cases). Similarly, assessments of typical real-life ambient energies and the potential to use them to extend battery life will be undertaken. This material will be used not only to exemplify the value proposition but will also attract TAs and VAs in WP2. The data from task 3.3 can be leveraged as converted from material to system level metadata. This will be closely coupled with the repositories, simulation tools and digital twins. Task 3.2 giving potential adopters guidance, tools and methodologies to co-develop and install optimized ICT enabled RES solutions. Such material & outputs will also be used in WP4 & 5 for informing, educating and disseminating, building an extended ecosystem of multi-disciplinary collaborators, cross-connecting and synergising ICT & RES disciplines

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REF MATERIAL

Task 3.2 Framework for Digital Services and Digital twins (CIEMAT, KIT, AIT, EPL, UCC, DTU) [M07-53]

This task aims to create a framework for digital services and digital twins in the RISEnergy project. The goal is to establish open science processes and methodical frameworks to ensure the quality and maturity of data and tools used for RISEnergy's thematic (i.e.: exposed to researchers) and core (i.e.: needed for advanced capacity integration) services. This will be achieved through the adoption of FAIR data principles, which will be automatically validated through metadata analysis and machine-actionable features. The specific objectives of the task include providing a centralized service for integrating digital artifacts (CIEMAT, FZJ), checking and validating FAIR data practices (such as those from EERAdata FAIR data toolbox, FZJ's METADOR or the one from ARDC), and integrating digital artifacts into the framework for validation (KIT, EPL, DTU, AIT, UCC), delivery, and deployment of software components (CIEMAT, FZJ). Metadata and ontologies will be synergized, and a first-generation recommendation model will be included in the metadata marketplace as well. The resulting framework will be available until M53 and, beyond the project lifetime, evaluated to be integrated into major European initiatives such as EERA

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REF MATERIAL

Task 3.3 Metadata service along the value chain (CEA, FZJ, KIT, UCC, DTU, IMEC, CIEMAT, CNR) [M02- M53]

This task is designed to help Users in finding the most suitable metadata schema for their research practice, spanning the ENTIRE innovation chain from materials to devices (macro and ICT) and integrated systems in the scope of RISEnergy. All participating Users and RIs adopt our metadata structure while adhering the FAIR data principles (cf. task 3.2). The proposed service will facilitate the curation/submission of User-produced data (experimental or computational) through following steps: 1. Summarise use cases for structured metadata application along the innovation chain, including reproducibility and repeatability of experiments, documentation of validation results, RI integration and automation, etc. 2. Identify and compile existing (meta)data platform and repositories on materials, devices and systems that are relevant to the eight renewable energy technologies of the project. We will take advantage of preexisting list of repositories (e.g. "FAIR Data toolbox"), which will be expanded and adapted to meet the Users' needs. The collected data resource descriptions will be validated and stored using a unique format (template). 3. Provide guidance to the RI Users to the most appropriate metadata platforms/data repositories according to the type of materials studied and to the intended applications through a searchable database of dataplatforms/repositories with the descriptions used in each (available at M30, updated version on M42). The search engine will be based on METADOR framework, with novel ontology and graph meta-data standards to accompany meta-data definition and integration across materials to devices and systems. (resp. FZJ). This also includes the first generation of AI/ML model duckers and data entry queries for materials intelligence for Hydrogen technologies, from materials to devices and integrate systems. This task will be linked to the RISEnergy's bespoke central service (cf. task 3.2), and the service will be offered until M53 and evaluated afterwards.

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REF MATERIAL

Task 3.4 Decision making for sustainability and sociotechnical aspects (KIT, UCC, DERlab, CIEMAT) [M01- M53]
An overview of technologies in frame of the RISEnergy project with selected sustainability KPIs (e.g. technoeconomic and LCA based) using recent literature will be provided in cooperation with named partners (UCC, DERlab, CIEMAT). The data can be downloaded or e.g. used to get an overview of available potential environmental impact categories (global warming potential, human health etc.) as well as techno-economic values (e.g. €/kWh, € per kW, CAPEX and OPEX). From these, potential implications can be derived to provide top level recommendations for future research and identify new research areas. Ideally, selected data will allow to derive common benchmarks for each technology. In line with this a decision-making tool and framework that allows to integrate different indicators for sustainability assessment to derive corresponding recommendations and to benchmark new technologies against existing ones will be developed. The tool and framework include different MCDA methods (Analytic Hierarchy Process, PROMETHEE, TOPSIS etc.) that can be used to support decision making processes related to relevant technologies. The tool and the framework will provide practical context via default data sets for considered technologies. In addition, the tool will be tested with relevant RISEnergy stakeholders and can help to involve different perspectives of the same until M42. A workshop and a survey will be carried out to include wider stakeholder groups as e.g. citizens or policy makers and to obtain socio-scientific feedback aiming to explore potential acceptance aspects for selected technologies. The optimized tool will be available until M53 and its use evaluated thereafter

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Coffee Break

10:35 – 11.00 h

4.
WP4 – Proactive Innovation Management

Dr Venizelos Efthymiou, Elizabeth Xenophondos- EPL

Kick-off Meeting | 13.03.2024

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

WP4 Objectives

Support of innovation and the acceleration of technology development in the renewable energy sector. The project brings different renewable energy sectors and their associated state of the art infrastructures and it is important that the benefit of this is maximised in terms of knowledge sharing, improving processes and streamlining activities such that to help and de-risk innovative technologies prior to commercialisation The work will not only concentrate on the infrastructures role in innovation testing but in providing a suite of complementary services that will guide technology developers and minimise bottlenecks as they progress through the Technology Readiness Levels (TRLs).

In summary the aims of WP4 are as follows:

1. Engage with innovators to provide pathway for technology development
2. Maximise synergies between renewable energy sectors to enhance innovation
3. Technical appraisal of Technical Assistance reports to identify further opportunities
4. Broad engagement with industry and policy stakeholders relevant to innovation support and development
5. Organize the RIs training activities to support the RISEnergy ecosystem, with emphasis on the layer of cross-RI services and complementing the innovation support activities.

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WP4 Structure

Tasks

- **Task 4.1: Title: Innovation Management, Partners: UCC,** EPL, KIT, AIT, **Duration: M1-M54**
- **Task 4.2: Title: Innovation Acceleration, Partners: UCC,** EPL, KIT, AIT**, Duration: M1-M54**
- **Task 4.3: Title: Innovation support from and for industry and policy stakeholders, Partners: ENEA,** EPL, KIT, AIT, EnBW, UCC, **Duration: M1 – M54**
- **Task 4.4: Title: Training on cross-RI services and innovation support, Partners: DTU,** EPL, CEA, UCC, CIEMAT, KIT, AIT, Duration: **M06 – M48**

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

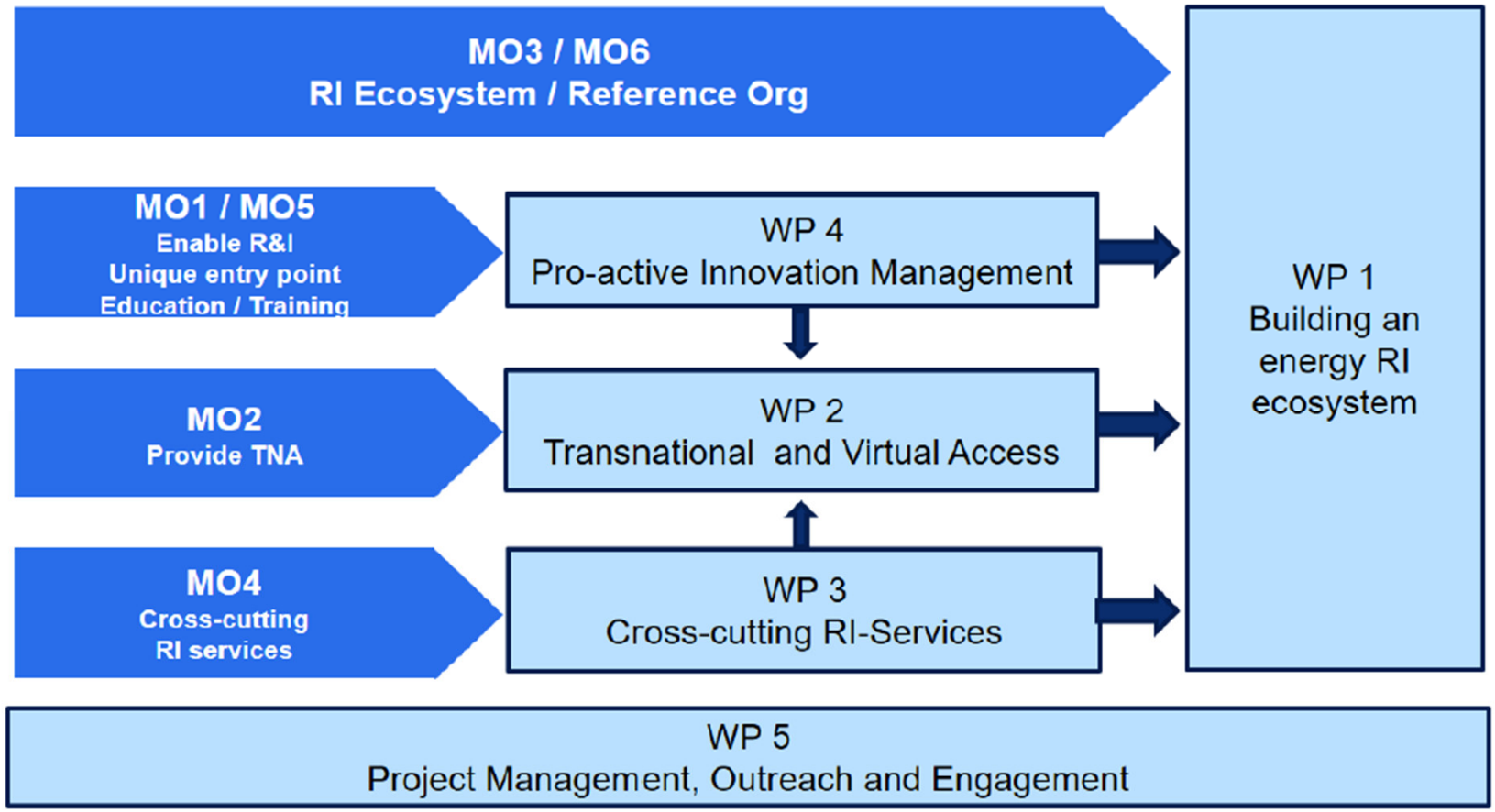
WP4 Gantt (2024 – 2028)

	Mar- Aug 2024 - 2024	Sept - Feb 2024 - 2025	Mar- Aug 2025 - 2025	Sept - Feb 2025 - 2026	Mar- Aug 2026 - 2026	Sept - Feb 2026 - 2027	Mar- Aug 2027 - 2027	Sept - Feb 2027 - 2028	Mar- Aug 2028 - 2028
Kick-off meeting (GA1)	M1								
D4.1 Report on innovation engagement			M18						
D4.2 Innovation opportunities and gaps			M18						
Project meeting (GA 2)		M12							
MS 8 Preparation of Strategy for engagement of stakeholders		M12							
MS 9 Innovation opportunities and gaps			M18						
RP1 (First Review)			M18	(M20)					
Project meeting (GA3)				M24					
D4.3 Innovation opportunities generated through the project					M30				
Project meeting (GA4)						M36			
D4.4 Report on innovation engagement						M 36			
RP2 (Second Review)						M36	(M38)		
D4.5 Report on the identified best practices and existing services								M48	
D4.6 Report on Training activities and materials								M48	
D4.7 Report on the main types of actions and tools to stimulate innovation									M52

WP4 Gantt (2024 – 2028)

	Mar- Aug 2024 - 2024	Sept - Feb 2024 - 2025	Mar- Aug 2025 - 2025	Sept - Feb 2025 - 2026	Mar- Aug 2026 - 2026	Sept - Feb 2026 - 2027	Mar- Aug 2027 - 2027	Sept - Feb 2027 - 2028	Mar- Aug 2028 - 2028
D4.8 Innovation opportunities generated through the project									M53
D4.9 Innovation tracking in RISEnergy Project									M53
D4.10 Report on innovation engagement									M54
D4.11 Report on cases handled and lessons learned									M54
RP3 (Final Review)									M54
Final Conference									M54

WP4 Interdependencies with other WPs



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Task 4.1 Innovation Management

Partners involved

- **Task leader**

- **Main participants**

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Task 4.1 Innovation Management

- This task will offer a proactive service which will ensure that innovative technology ideas from various sources are supported and provided with a potential pathway to commercialization through consultation and engagement with relevant renewable energy sector experts from within the project.

Main outcome

- The innovation management secretariat will offer a unique entry point to receive informal inquiries (web-form / email address) to engage with technology developers and innovators in the renewable energy sectors. This will be the starting point that can lead to the recommendation for the submission of a short application consisting of a more detailed discussion of the scientific idea or innovation. These applications will be invited at regular intervals throughout the project.
- Each application will be reviewed by the secretariat and then passed on to relevant experts from within the consortium for more detailed technical assessment.
- The pathway for the application may take different routes following the initial assessment by the expert panel. This assessment will use a set of objective criteria to identify and rank the most promising technologies that have the highest opportunity for reaching full commercialization
- Successful applications will commence an engagement with the RISEnergy project that could potentially last until the end of the project.
- Following the above engagement, the innovation management secretariat will continue to track the development of the innovation and maintain communication with the innovator.
- Special attention: Fast-track access to Ukrainian researchers from government-controlled areas to support applications with longer ad hoc training and length of visits (beyond 3 months).

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Task 4.2 Innovation Acceleration

Partners involved

- **Task leader**

- **Main participants**

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

Task 4.2 Innovation Acceleration

- This task is aligned with task 4.1 in terms of identifying how the consolidation of RIs and associated experts from various sectors within the project will provide a better service to innovators and thus accelerate the technology development process. This project provides the opportunity to understand the specific development process for different technology types and through knowledge transfer and identified efficiencies, improvements can be made. In addition, certain technologies can be cross sectoral.

Main outcome

- Detailed technical review of Technical Assistance access reports to understand what was achieved and how the potential benefits can be maximized.
- Pursue an advisor process to the applicant on their next steps, recommendations to the RI on improvements to their testing process or the identifications of learnings from one technology that may be of benefit to another.
- The innovation management secretariat will assign relevant experts as required and track progress.
- Capture information that is normally missed in Technical Assistance programmes in terms of identifying further opportunities and not letting the report of a Technical Assistance in itself be the end of the process.

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Task 4.3 Innovation support from and for industry and policy stakeholders

Partners involved

- **Task leader**

ENEA
Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile

- **Main participants**

EPL TECHNOLOGY FRONTIERS

KIT Karlsruher Institut für Technologie

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY

EnBW

ucc Coláiste na hOllscoile Corcaigh, Éire University College Cork, Ireland

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Task 4.3 Innovation support from and for industry and policy stakeholders

- This task is addressed to all the stakeholders of the energy value chain which are not directly involved in the innovation technology process, but who play a critical role in its development (e.g., certification authorities, financial organizations, government agencies, regulatory and standardization organizations, etc.). More in detail, the task aims to understand how these stakeholders can support innovation and which actions they can apply for fostering it.

Main outcome

- Selecting relevant stakeholders to involve for identifying the main barriers and possible solutions to overcome the main issues/barriers. Each partner of the consortium will support this activity by providing a list of contacts for each country represented in the task.
- Defining a strategy and related mechanisms for reaching the potential stakeholders. It will include specific meetings, targeted thematic workshops, roundtables, workshops, but also specific interviews to involve them in the decisional process. Information will be sought from the Forum developed by WP5 (subtask 5.3.2 'Online Presence and Research Infrastructure Platform' which is led by DERlab).
- Data collection and analysis that will be focused on the selection of the collected information, the identification of better qualitative or quantitative analysis techniques to change information in user data, aiming the construction of a useful dataset.

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

Task 4.4 Training on cross-RI services and innovation support

Partners involved (plus CEA)

- Task leader

DTU

- Main participants

EPL TECHNOLOGY FRONTIERS

KIT Karlsruher Institut für Technologie

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY

Ciemat Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas

UCC Coláiste na hOllscoile Corcaigh, Éire University College Cork, Ireland

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

Task 4.4 Training on cross-RI services and innovation support

- This task organizes and facilitates the creation of training materials and activities to support the RISEnergy eco-system, emphasizing cross-RI services (WP3) and complementing the innovation support activities (T4.1/.2/.3). It will provide the framework to organize training activities and source content from relevant tasks, which include T1.2/.4 and WP2, represented by EPL, CEA, UCC, CIEMAT, KIT and AIT.

Main Outcome:

- Training activities that are geared towards researchers and technology developers including:
  - content for seminars, panels and workshops to promote the RISEnergy cross-RI services and innovation support;
  - webinars and the recorded talks as training materials;
  - compilations of technical training materials.
- Develop / use / design a portal to both cross-cutting and area-specific training content, e.g. by identifying and linking to ERIGrid, EDDIE, ASSET, and EIRIE training materials, aiming to operate a single point of access for all material; the portfolio of materials will be on the RISEnergy website (in cooperation with EERA and DERlab in T5.3.2) and use EIRIE as a common repository area, including a YouTube channel where possible and proven complementary and useful.
- Deliver technical content on aspects of cross-RI services, e.g. code samples, notebooks, instructions, and presentations; webinars will be developed for specific results from the tasks listed above;
- Facilitate the innovation support activities through training material that is targeted at both the innovation, development and technical implementation of access projects.

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Partners involved

RISEnergy

KIT Karlsruher Institut für Technologie

EERA European Energy Research Alliance

DERlab European Distributed Energy Resources Laboratories

Ciemat Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas

eccsel eric The European CCUS Research Infrastructure

EUSOLARIS ERIC

Consiglio Nazionale delle Ricerche

AIT Austrian Institute of Technology

DTU

EnBW

ENEA Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile

EPL Technology Frontiers

JÜLICH Forschungszentrum

imec

TNO innovation for life

UCC Coláiste na hOllscoile Corcaigh, Éire University College Cork, Ireland

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

4.

WP5 - Project Management, Outreach and Engagement

Myriam E. Gil Bardají (KIT), Sabine Müller (KIT), O. Sumińska-Ebersoldt (KIT), P. Holtappels (KIT)

M. Luisa Fernández (EERA), Leonard Ramos (DERlab)

Kick-off Meeting | 13.03.2024

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

WP5 Objectives

The objective of WP5 is to **manage all project activities among the partners**, to **monitor quality** and timing of project results, to carry out the overall **administrative and financial management** of the project and to actively advertise the services of RISEnergy to targeted research communities and relevant industries (incl. SMEs). The aim is to ensure the project is conducted on time according to the budget and directed towards the overall project objectives.

The following core tasks and activities will be carried out:

(i) Coordination of the technical activities of the project and linking together all project components
(ii) Overall legal, contractual, ethical, financial and administrative management
(iii) Maintaining communication with the European Commission and each partner
(iv) Establishing and maintaining conflict resolution and management of strategic orientation of the project
(v) Disseminating the activities and initiatives carried out in the context of the project
(vi) Facilitating and maintaining strong and effective involvement of relevant various stakeholders at local, national and European level, and between the different sectors of research, policy and practice by outreach and engagement activities.

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WP5 Structure

Tasks

- **Task 5.1**: Internal project management and coordination — KIT, M1 - M54
- **Task 5.2**: Monitoring and internal and external progress reporting — KIT, M1 - M54
- **Task 5.3**: Dissemination, exploitation, outreach and engagement plan — EERA, M1 - M54
- **Task 5.4**: Ethics management — KIT, M1 - M54

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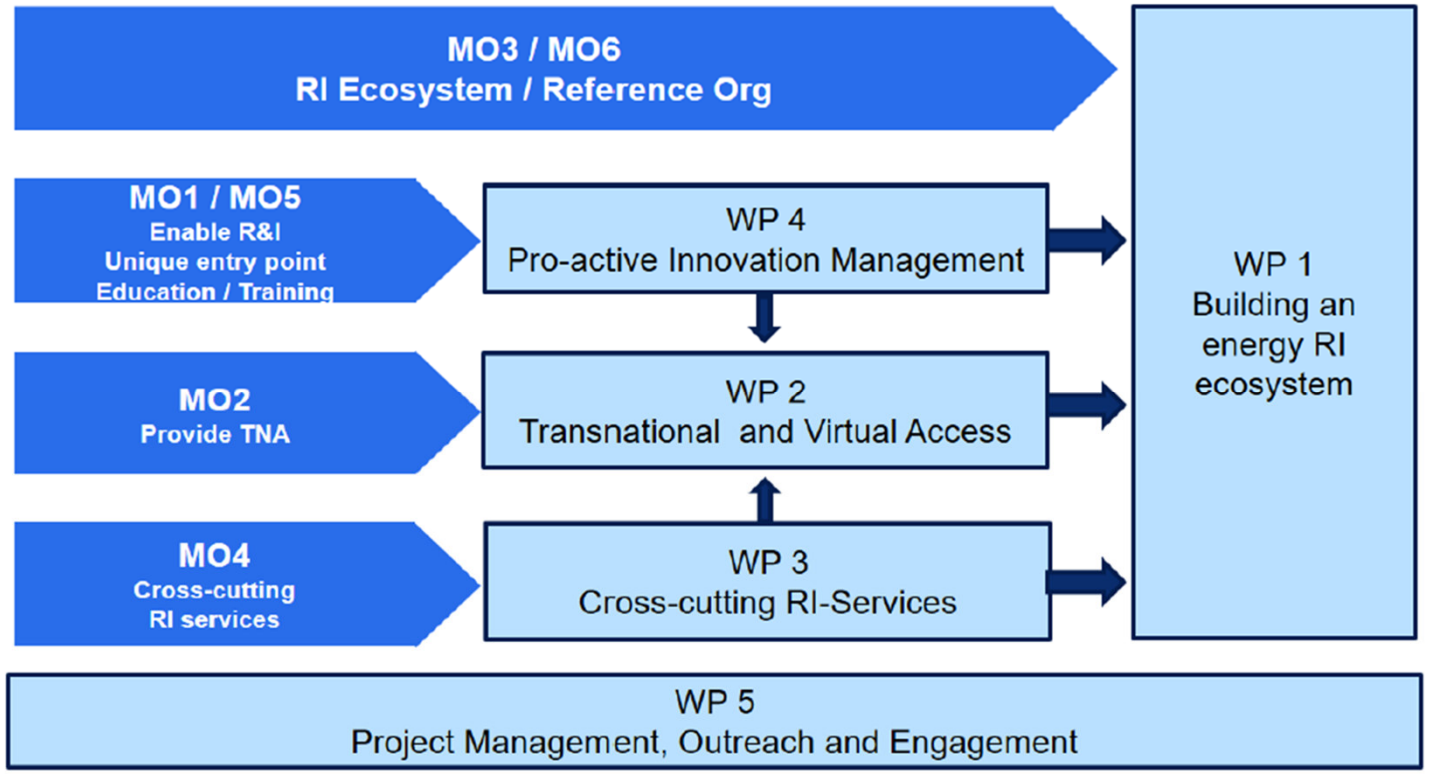
WP5 Interdependencies with other WPs



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WP5 Gantt (2024 – 2028)

RISEnergy

	Mar- Aug 2024 - 2024	Sept - Feb 2024 - 2025	Mar- Aug 2025 - 2025	Sept - Feb 2025 - 2026	Mar- Aug 2026 - 2026	Sept - Feb 2026 - 2027	Mar- Aug 2027 - 2027	Sept - Feb 2027 - 2028	Mar- Aug 2028 - 2028
MS10 Kick-off meeting (GA1)	M1								
D5.1 Project management & quality assurance plan	M3								
D5.2 Data management plan	M6								
D5.3 Report on project website and RI platform	M6								
MS11Research infrastructure platform established	M6								
D5.4 Outreach and engagement plan		M9							
D5.5 First risk assessment plan		M12							
Project meeting (GA2)		M12							
D5.6 Policy briefing – M18			M18						
RP1 (First Review)			M18	(M21)					
Project meeting (GA3)				M24					
D5.7 Policy briefing – M36						M36			
Project meeting (GA4)						M36			
RP2 (Second Review)						M36	(M39)		
D5.8 Final risk assessment									M54
D5.9 Policy briefing – M54									M54
RP3 (Final Review)									M54
Final Conference									M54

Task 5.1 Internal project management and coordination

Partners involved

- **Task leader**

- **Main participants**

- **Other participants**

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

Task 5.1 Internal project management and coordination

Deliverables / Milestones / Events (Mar 2024 – Feb2025)

- **Description:** Technical coordination and scientific quality assurance throughout the project and general management of the consortium
  - Development of a project management and quality assurance plan
  - Development of a Data Management Plan (DMP)
  - Risk assessment and monitoring
- **Main Outcomes**
  - Organization of 1st General Assembly (KoM)
  - Advisory Board feedback implementation in the project activities

- **Expected deliverable(s) in the first year**

D5.1 – Project management & quality assurance plan (KIT)

D5.2 – Data management plan (KIT)

D5.4 – First risk assessment plan (KIT)

- **Expected milestone(s) in the first year**

MS1 – Kick-off Meeting

- **Events/Workshops/etc**

None

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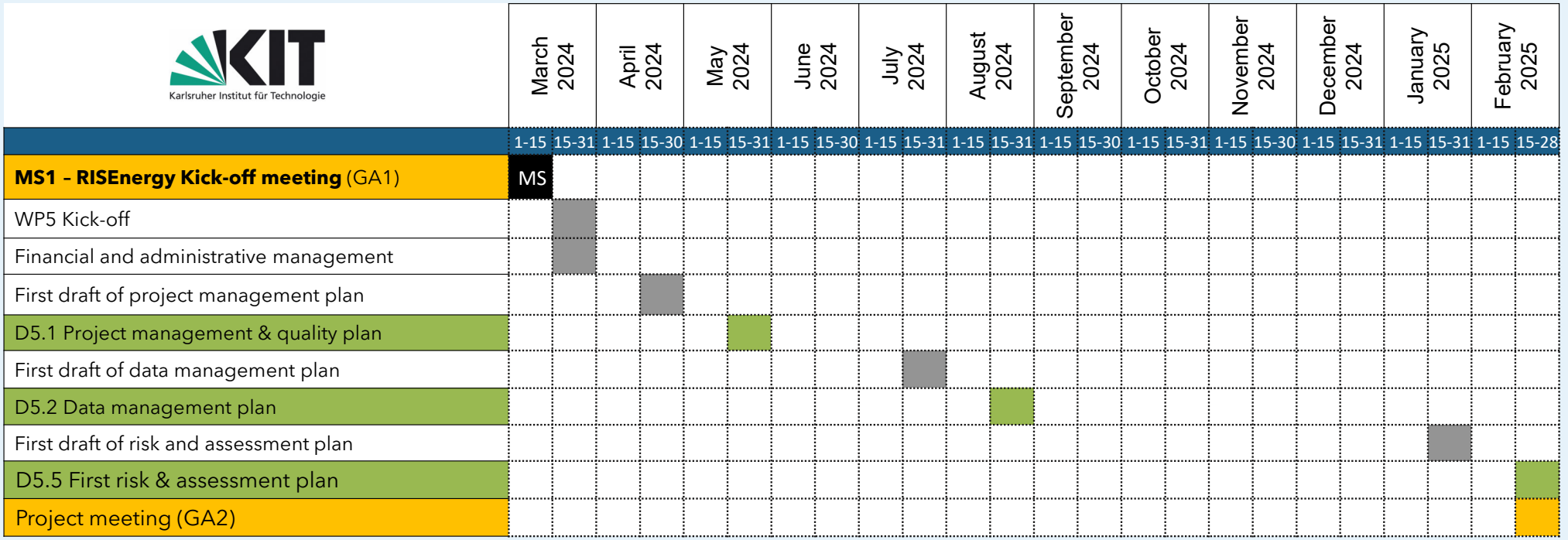
Task 5.1 Internal project management and coordination

Gantt (March 2024 – February 2025)



	March 2024		April 2024		May 2024		June 2024		July 2024		August 2024		September 2024		October 2024		November 2024		December 2024		January 2025		February 2025	
	1-15	15-31	1-15	15-30	1-15	15-31	1-15	15-30	1-15	15-31	1-15	15-31	1-15	15-30	1-15	15-31	1-15	15-30	1-15	15-31	1-15	15-31	1-15	15-28
MS1 – RISEnergy Kick-off meeting (GA1)	MS																							
WP5 Kick-off																								
Financial and administrative management																								
First draft of project management plan																								
D5.1 Project management & quality plan																								
First draft of data management plan																								
D5.2 Data management plan																								
First draft of risk and assessment plan																								
D5.5 First risk & assessment plan																								
Project meeting (GA2)																								

Task 5.2 Monitoring and internal/external progress reporting

Partners involved

- **Task leader**

Karlsruher Institut für Technologie

- **Other participants**

EERA European Energy Research Alliance
DERlab European Distributed Energy Resources Laboratories
Ciemat Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas
eccsel eric The European CCUS Research Infrastructure
EUSOLARIS ERIC
Consiglio Nazionale delle Ricerche
AIT Austrian Institute of Technology
DTU
cea
EnBW
ENEA Agenzia nazionale per le nuove tecnologie, l'energia e lo sviluppo economico sostenibile
EPL Technology Frontiers
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Task 5.2 Monitoring and internal/external progress reporting

Deliverables / Milestones / Events (Mar 2024 – Feb2025)

- **Description:**

Monitoring of the progress, monitoring the quality of technical deliverables, keeping track of the progress and budget, maintaining compliance under GA, compiling and submitting RPs, collecting administrative documents, monitoring of the technical progress based on regular videoconferences with the WP leaders and target areas representatives (bi-monthly).

- **Main outcomes**
  - Keep track of the activities
  - Avoid delays
  - Quality assurance of first results

- **Expected deliverable(s) in the first year**

None

- **Expected milestone(s) in the first year**

None

- **Events/Workshops/etc**

Steering Committee Jour Fixe (every 2 weeks)

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

Task 5.2 Monitoring and internal/external progress reporting

Gantt (March 2024 – February 2025)

	March 2024		April 2024		May 2024		June 2024		July 2024		August 2024			September 2024		October 2024		November 2024		December 2024		January 2025		February 2025	
	1-15	15-31	1-15	15-30	1-15	15-31	1-15	15-30	1-15	15-31	1-15	15-31		1-15	15-30	1-15	15-31	1-15	15-30	1-15	15-31	1-15	15-31	1-15	15-28
First SC Jour Fixe (SC JF 1-2024)		■											SC JF 12-204	■											
SC JF 2-204			■										SC JF 13-2024		■										
SC JF 3-2024				■									SC JF 14-2024			■									
SC JF 4-2024					■								SC JF 15-2024				■								
SC JF 5-2024						■							SC JF 16-2024					■							
SC JF 6-2024							■						SC JF 17-2024						■						
SC JF 7-2024								■					SC JF 18-2024							■					
SC JF 8-2024									■				SC JF 19-2024								■				
SC JF 9-2024										■			SC JF 20-2024									■			
SC JF 10-2024											■		SC JF 21-2024										■		
SC JF11-2024												■	SC JF 22-2024											■	

Task 5.3 Dissemination, exploitation, outreach and engagement plan

Partners involved

- **Task leader**

- **Main participants**

- **Other participants**

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

Task 5.3 Dissemination, exploitation, outreach and engagement plan

Deliverables / Milestones / Events (Mar 2024 – Feb 2025)

- **Description**

Facilitate and maintain a strong and effective involvement of the targeted stakeholders at different levels (stakeholder map, engagement plan) as well as advertise RISEnergy's activities and services through the development of communication and dissemination channels and tools (website, newsletters, social media).

- **Main outcomes**

- The creation and implementation of a recognizable identity for the project.
- The development of all the dissemination and outreach channels and tools, including the support in the organisation of events and workshops.

- **Expected deliverable(s) in the first year**

D5.3 Report on project website and RI platform (DERlab)

D5.4 Outreach and engagement plan (EERA)

- **Expected milestone(s) in the first year**

MS11 – RI platform established

- The setup of a Research Infrastructure (RI) platform.
- The development of a stakeholder map and a subsequent engagement plan.
- The formulation of an exploitation strategy.

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Task 5.3 Dissemination, exploitation, outreach and engagement plan

Gantt (March 2024 – February 2025)

	March 2024	April 2024	May 2024	June 2024	July 2024	August 2024	September 2024	October 2024	November 2024	December 2024	January 2025	February 2025
Visual identity development and implementation												
Creation and administration of dissemination and outreach channels and tools												
Development of stakeholder mapping												
Development of engagement plan												
D5.3 Report on project website & RI platform												
MS11 – RI platform established												
Website creation and deployment (including periodic content creation and publication)												
D5.4 Outreach & engagement plan												
Support in the organisation of events and workshops												

Task 5.4 Ethics management

Partners involved

Karlsruher Institut für Technologie

- Other participants

Consiglio Nazionale delle Ricerche

This project has received funding from the European Union's Horizon Europe Research and Innovation Programme under Grant Agreement N. 101131793

Task 5.4 Ethics management

Deliverables / Milestones / Events (Mar 2024 – Feb2025)

- **Description**

Ensure that all ethical issues already identified (see ethical assessment Part A of the proposal) will be considered by the relevant partners within their project activities and comply with ethical principles and relevant legislations:

  - Personal Data (GDPR)
  - Non-EU countries
  - Environment, Health and Safety
  - Artificial Intelligence

- **Expected deliverable(s) in the first year**

None

- **Expected milestone(s) in the first year**

None

- **Events/Workshops/etc**

None

- **Main outcome (M54)**

A specific report on ethical issues will be provided to the EC, specifying how the ethical issues have been tackled by the consortium and providing the requested information (tools, procedures, etc.), and also ensuring that the consortium complies with all relevant national/EU regulations

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Agenda

Day 2

Time	TOP	RISEnergy Kick-off Meeting - Day 2	Speaker	
08:30		**Registration**		
09:00	**1.**	**Welcome & Agenda**	**Peter Holtappels (KIT), PC**	**(10')**
09:10	**2.**	**EC expectations**	**Anna Santoro (EC), PO**	**(20')**
09:30	**3.**	**RISEnergy concept**	**Peter Holtappels (KIT)**	**(20')**
	4.	**The scientific approach and the actions (WPs)**		
09:50	WP1	Building an energy R&I ecosystem	Mónica de Juan (EERA), WP1L	(15')
10:05	WP2	TNA and VA to world-class research infrastructures	Olga Sumińska-Ebersoldt (KIT), WP2L	(15')
10:20	WP3	Cross-cutting and RES services to support technolgies, systems & policy makers	Michael Hayes (UCC), WP3L	(15')
10:35		**Coffee break**		
11:00	WP4	Pro-active innovation management	Venizelos Efthymiou (EPL), WP4L	(15')
11:15	WP5	Project management, outreach & engagement	Myriam E. Gil Bardaji (KIT), WP5L	(15')
12:00	**5.**	**Administrative and financial management issues**	**Sabine Müller (KIT)**	**(15')**
12:15	**6.**	**General Assembly first decisions**	**Peter Holtappels (KIT), PC**	**(5')**
12:20	**7.**	**Advisory Board feedback**	**Peter Holtappels (KIT), PC**	**(30')**
12:50	**8.**	**Closing remarks and next steps**	**Peter Holtappels (KIT), PC**	**(10')**
13:00		**End of meeting**		
13:00		**Lunch**		

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5.
Administrative and financial management issues
- not public

Sabine Müller (KIT)

Kick-off Meeting | 13.03.2024

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6.
General Assemby (GA) – First decisions
- *not public*

Peter Holtappels | KIT

Kick-off Meeting | 13.03.2024

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7.
Advisory Board (AB) – Feedback
- not public

Peter Holtappels | KIT

Kick-off Meeting | 13.03.2024

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RISEnergy

8.
Closing Remarks – Next steps

Peter Holtappels | KIT

Kick-off Meeting | 13.03.2024

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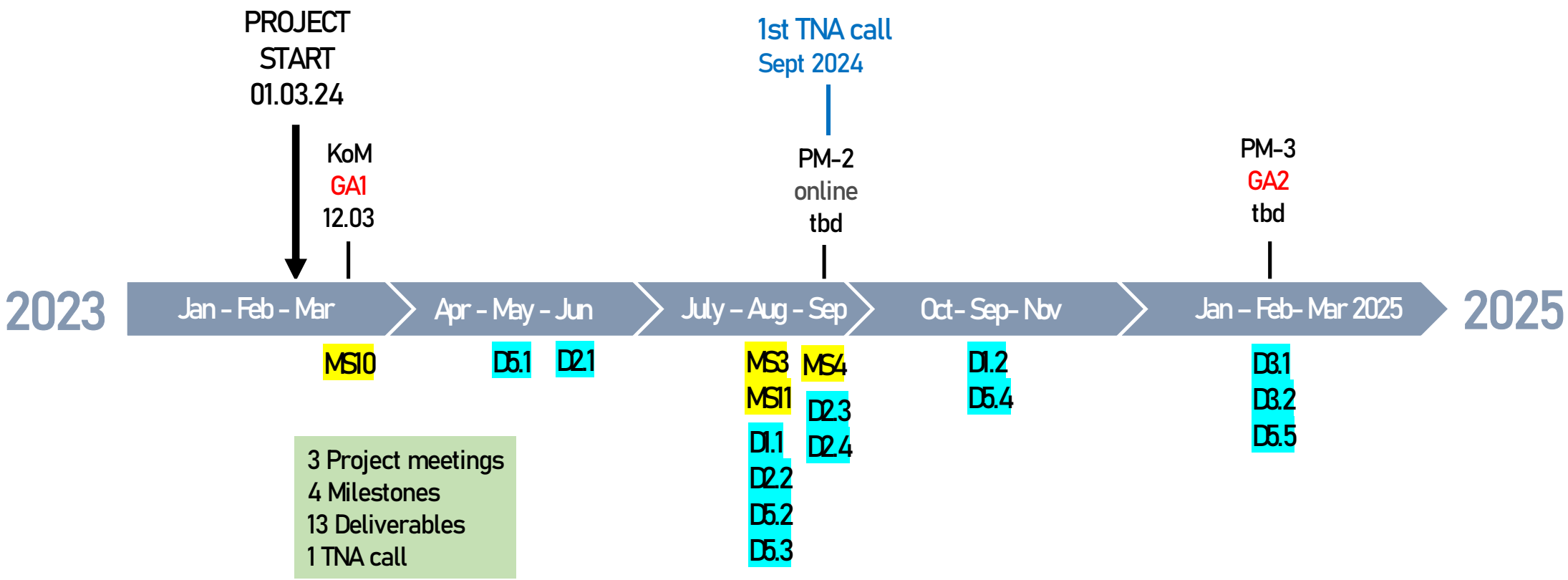
Next Steps – 1st Year (M01 – M12)



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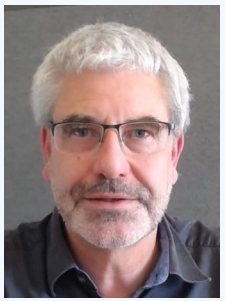
Lunch

13.00 – 14.00 h

Thank you

RISEnergy

KIT coordination team



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