

Workshop on data transfer (projects, proposal) for co-funded European Partnerships

10 June 2022

Scope of this workshop Overview

Scope of this webinar

We will present & discuss:

The requirements on collection and transmission of data

- Detailed information on range of data required
- Technical details for data transfer to EC
- A practical example

We will NOT discuss:

- Mandatory data structure
- Individual problems in collecting data

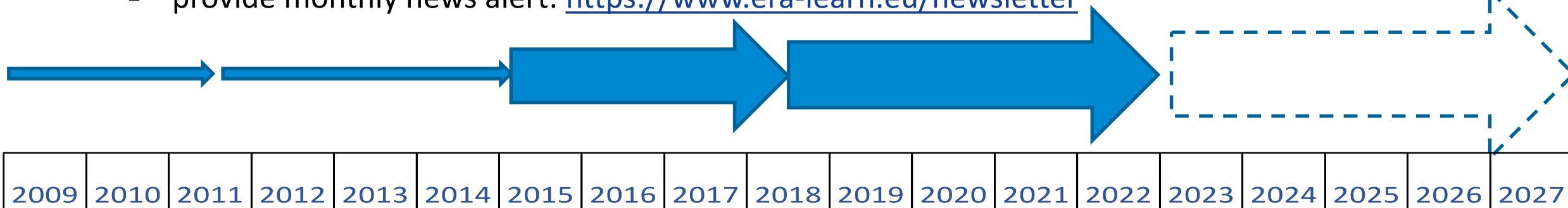
Time	Topic	Speaker
	Moderation: Jan-Arne Eilertsen (ERA-LEARN)	
10:00-12:30	Welcome & Introduction	Roland Brandenburg (ERA-LEARN)
	Background and expectations	Marnix Surgeon (EC RTD G.4) Ülle Napa (ETAg, Member of the Expert Group)
	Questions & Answers	Effie Amanatidou (ERA-LEARN) and all speakers
	Data requirements and technical background	Paul Schlag (EC RTD.G.6)
	Experiences and first practice	Ben Kummer, Fabienne Nikowitz, M-ERA.NET
	Questions & Answers	Effie Amanatidou (ERA-LEARN) and all speakers
	Wrap Up	Elena-Mihaela Williams (EC RTD G.4)

Welcome and introduction

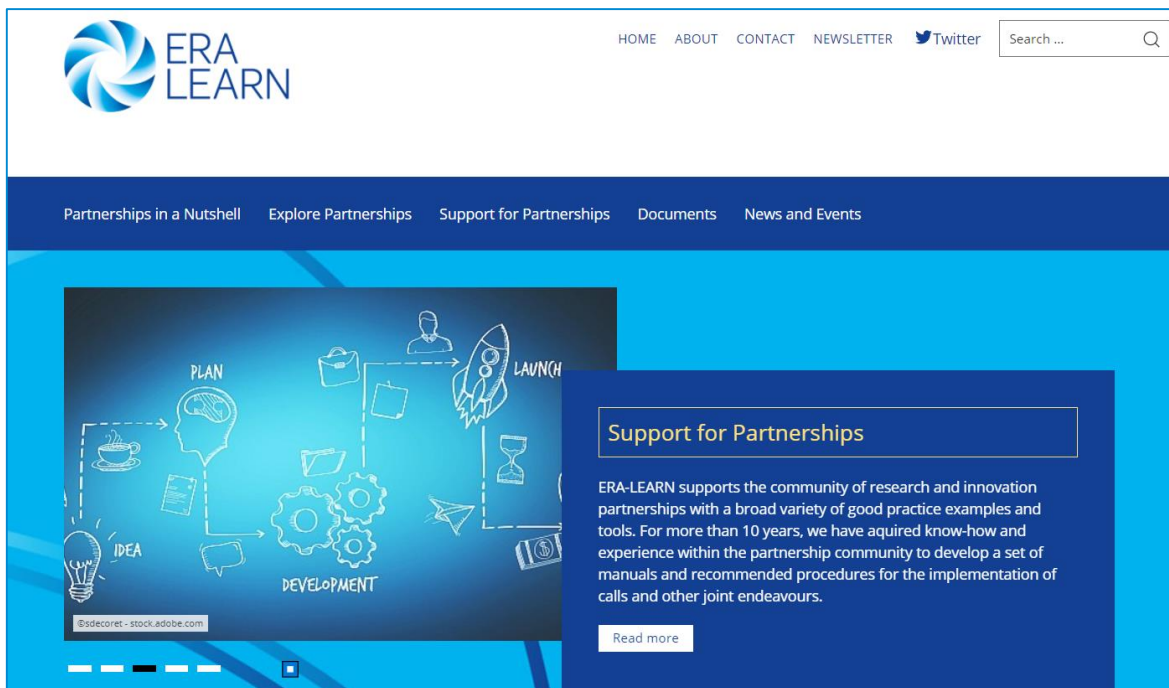
Roland Brandenburg, coordinator ERA-LEARN

ERA-LEARN: service provider & facilitator to meet your needs

- interact with the Partnerships community
- maintain central information hub: the ERA-LEARN portal <https://www.era-learn.eu>
- collect data & provide ERA-LEARN database: networks, calls, projects
- provide guiding material & good practice
- provide evidence & analysis
- co-organise events
 - workshops on specific issues
 - annual large events
- provide monthly news alert: <https://www.era-learn.eu/newsletter>

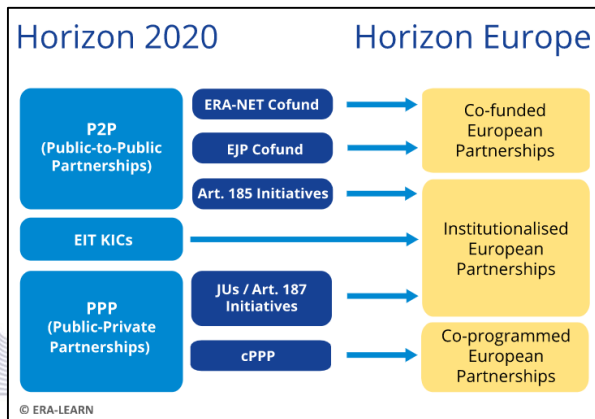


Central information hub: the ERA-LEARN portal <https://www.era-learn.eu>



Background information on the new Partnerships process

- Strategic Coordinating Process
- Partnership Process
- Facts and Figures, Annual Reports and Country Reports



Welcome to the ERA-LEARN newsletter!

19/11/2021

Council regulation on joint undertakings and Metrology adopted

On 19 November 2021, the Council of the EU adopted a Council regulation establishing joint undertakings under the Horizon Europe programme. The joint undertakings based on Article 187 TFEU complement the existing Horizon Europe framework by addressing global challenges and priorities that require critical mass and long-term vision.

[Read more](#)

Events

[Home](#) / [News and Events](#) / [Events](#) / [Preparing cofunded European Partnerships](#)

Preparing cofunded European Partnerships

Date: 04/03/2021

Online workshop to support the preparation of co-funded European Partnerships. The webinar was the first of a series of workshops ERA-LEARN offers for the support of the new European Partnerships. The status quo, clarifying open questions and facilitating a first exchange experiences. Follow-up webinars on specific issues are planned.

- Strategic coordinating process
- Governance
- Financial management
- Co-funded calls
- Other activities

Date: 4 March 2021, 9:30 - 13:00 CET

[Agenda](#)

[Presentation slides](#)

[Q&A Summary](#)

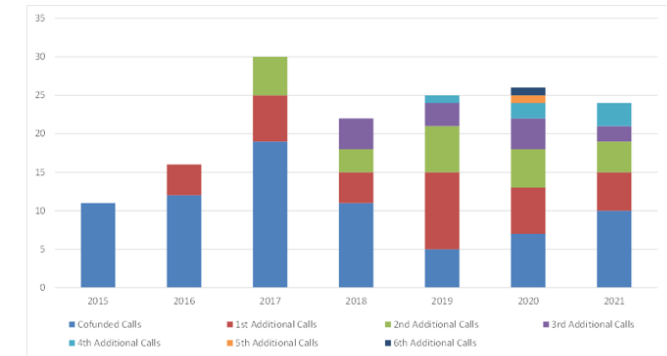
Annual Report on Public-Public Partnerships

- published since 2015
 - detailed analysis, overall trends, good practice examples
 - 2021 report to be published soon
- ... data needed!

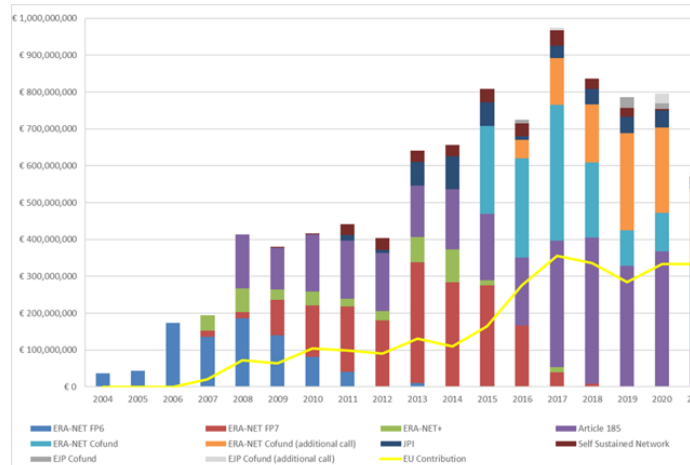


Annual Report on Public-Public Partnerships
2021

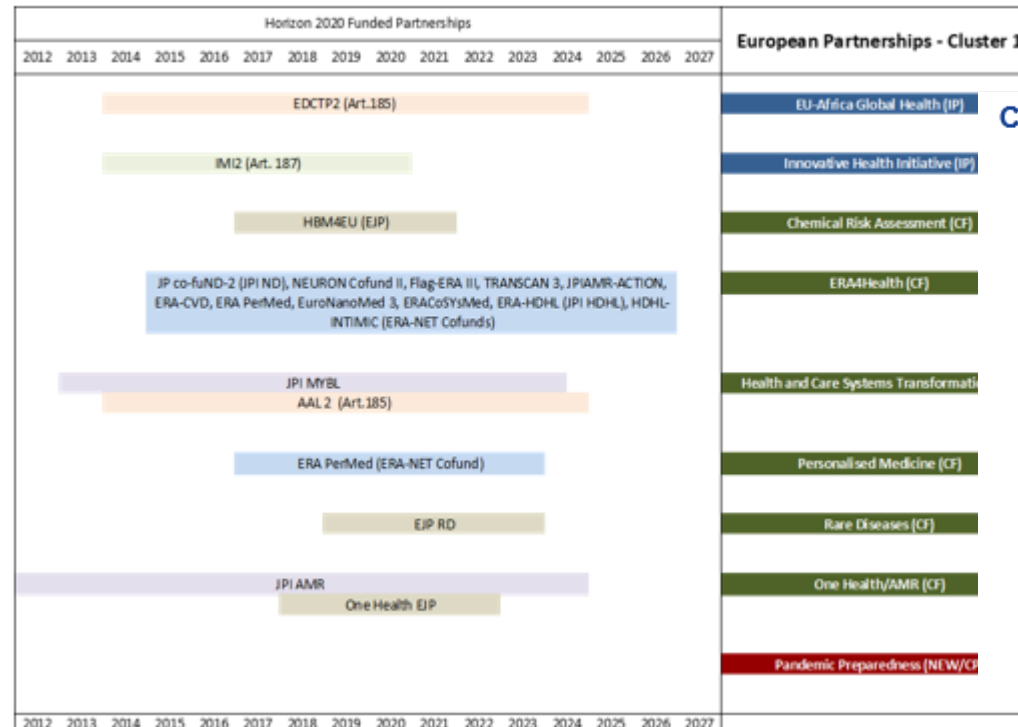
ERA-NET Cofund Calls by Year Call Ended



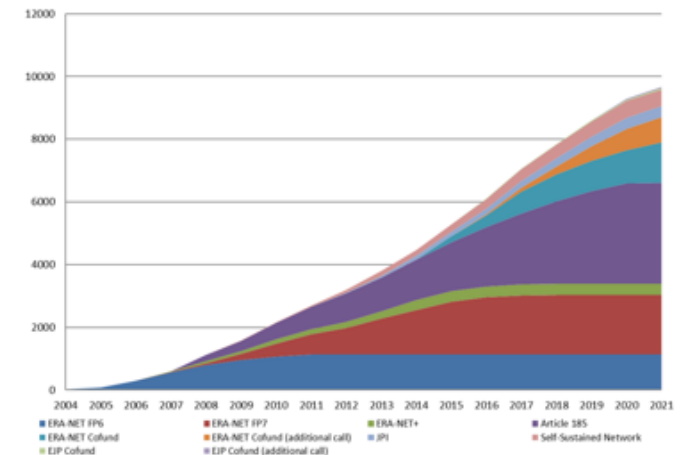
National Joint Call Commitment (with EU Contribution for co-funding of calls overlaid) for all Calls closed 2004-2021, by Network Type



Transition to European Partnerships



Cumulative Number of Transnational Projects Funded

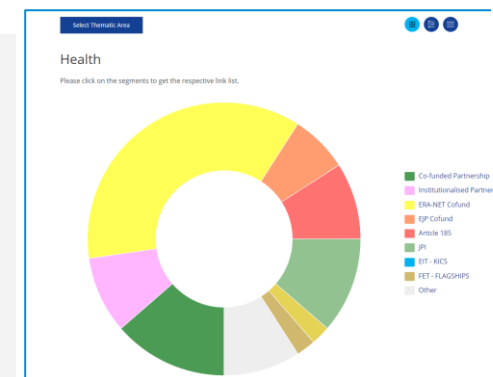
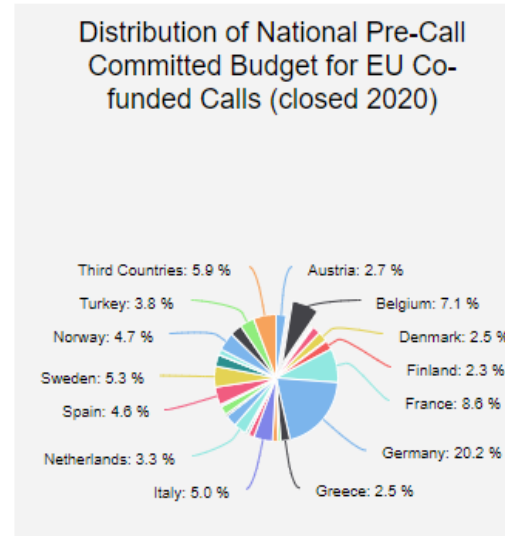
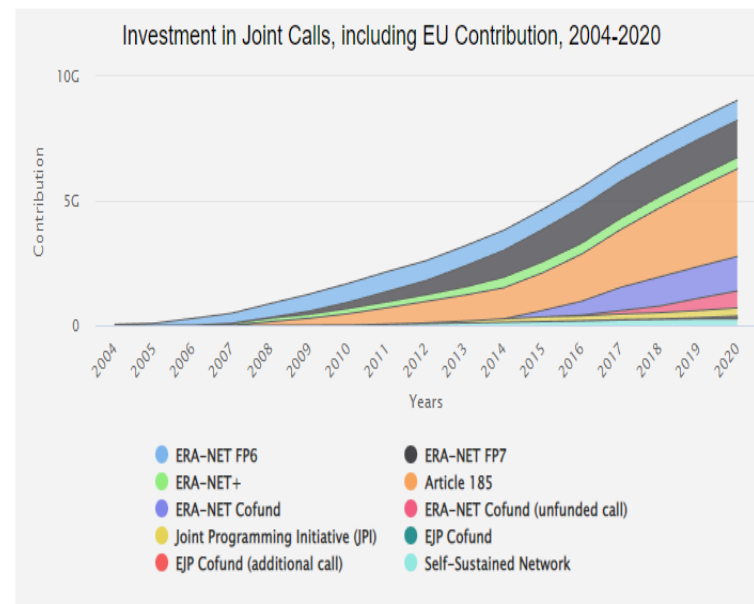


Explore Partnerships -search the ERA-LEARN database

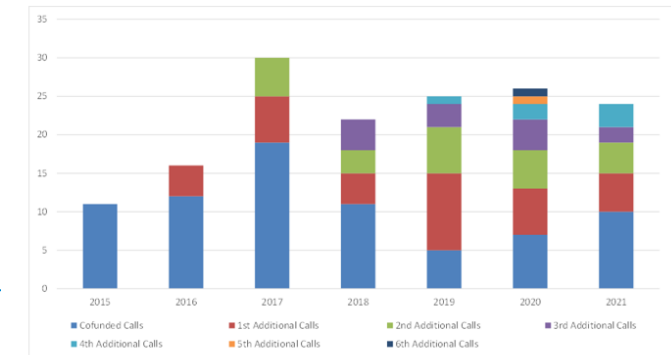
- to get an overview on all Partnerships (format, topic...)
- to know about your country's participation
- to be informed on the Partnership's joint calls
- to be aware of upcoming calls for Partnerships in HE work programmes

➤ ... data needed!

Facts and figures



ERA-NET Cofund Calls by Year Call Ended



France cooperation overview: projects

Show map Show report

France is involved in 2041 projects.

Show cooperations in

Networks Calls Projects





Data requirements – Policy Background

*Webinar on data transfer of co-funded
European Partnerships*

10 June 2022

A new approach to European Partnerships in Horizon Europe



- A more strategic, coherent and impact-driven approach
- European Partnerships to be established only in cases where they will achieve objectives of Horizon Europe more effectively than other activities of the Framework programme.
- 49 European Partnerships identified in the Horizon Europe Strategic Plan 2021-2024 (out of which 16 co-funded partnerships).

European Partnerships in the Strategic Plan 2021-2024

PILLAR II – Global challenges & European industrial competitiveness

PILLAR III – Innovative Europe

Cluster 1: Health	Cluster 4: Digital, industry and space	Cluster 5: Climate, energy and mobility	Cluster 6: Food, bioeconomy, natural resources, agriculture and environment	EIT: The European Institute of Innovation and Technology	European innovation ecosystems	
Innovative Health Initiative	Key Digital Technologies	Clean Hydrogen	Circular Bio-based Europe	EIT InnoEnergy	Innovative SMEs	
Global Health EDCTP3	Smart Networks and Services	Clean Aviation	Biodiversa+	Climate-KIC		
Transformation of Health Care Systems	High Performance Computing	Single European Sky ATM Research 3	Blue Economy	EIT Digital		
Risk Assessment of Chemicals	European Metrology (Art. 185)	Europe's Rail	Water4All	EIT Food		
ERA for Health	AI-Data-Robotics	Connected, Cooperative and Automated Mobility	Animal Health and Welfare	EIT Health		
Rare Diseases	Photonics	Batteries	Accelerating Farming Systems Transitions	EIT Raw materials		
One-Health Antimicrobial Resistance	Made in Europe	Zero-emission Waterborne Transport	Agriculture of data	EIT Manufacturing		
Personalised Medicine	Clean Steel – Low-Carbon Steelmaking	Zero-emission Road Transport	Safe and Sustainable Food Systems	EIT Urban Mobility		
Pandemic Preparedness	Processes4Planet	Built4People		Cultural and Creative Sectors and Industries		
	Globally Competitive Space Systems	Clean Energy Transition		CROSS-PILLARS II and III		
		Driving Urban Transitions				
				European Open Science Cloud		

■ Institutionalised partnerships (Art 185/7, EIT KICs)

■ Co-programmed

■ Co-funded

Monitoring and reporting of European Partnerships



- It is fully integrated in the Horizon Europe monitoring and evaluation system, in accordance with Article 50, Annex III and Annex V of the Horizon Europe Regulation.
- Outcomes feed into the biennial monitoring of all European partnerships and Horizon Europe evaluations.
- First Biennial monitoring report on the performance of the European Partnerships was published in April 2022.

Annex III Horizon Europe Regulation – Monitoring criteria

- A monitoring system in line with the requirements set out in Article 45 to track progress towards specific policy objectives, deliverables and key performance indicators allowing for an assessment over time of achievements, impacts and potential needs for corrective measures;
- Periodic dedicated reporting on quantitative and qualitative leverage effects, including on committed and actually provided financial and in-kind contributions, visibility and positioning in the international context, impact on research and innovation related risks of private sector investments;
- Detailed information on the evaluation process and results from all calls for proposals within partnerships, to be made available timely and accessible in a common e-database.

Co-funded calls – Data management and structure

- For each European partnership, the data on proposals, selected projects, their outcomes and results need to be integrated in the central IT tools (eGRANTs, Horizon Europe Dashboard).
- In practice: transfer of data on the proposals received and projects signed under each co-funded European Partnership.
- Extensive discussions in the past year about the data structure and exchange for each call launched under a co-funded European Partnership.
- Outcome of these discussions to be presented today.



First biennial monitoring report of EU Partnerships and data

Ülle Napa

Estonian Research Council, head of the Brussels liaison office

Observations from the First biennial monitoring report of EU Partnerships

- New approach in Horizon Europe in comparison to H2020. Data both from Horizon Europe projects and European Partnerships will be integrated to EC databases for further analysis.
- First report was struggling with the lack of data and therefore more benefits for partnerships and countries from these reports could be expected in the future reports if the data for the new European Partnerships will be available.
- EC needs to be able to receive data after partnerships are established and receive data from concluding calls. Reporting should take place close to real time. Despite that the reports will always lack some data...

Some examples why input from partnerships is so valuable

- **Countries** have **specific data needs** regarding partnerships and participation in partnerships.
- **Partnership fiches** – very valuable input to countries, but also to stakeholders and decision makers.
- Clear indication that there is a **need to combined national and EC data** (= a lot of project level data from partnerships directly) to get the complete overview of participation in and impact of partnerships.
- Based on the input of partnerships it is **possible to evaluate the achievement of EU level goals** – e.g. How much partnerships contribute to green and digital transition (could be sth different in the future).

Based on the input of partnerships to EC databases it is possible to evaluate the achievement of EU level goals

PARTNERSHIPS CONTRIBUTING TO THE TWIN DIGITAL AND GREEN TRANSITION, AND EUROPE'S RESILIENCE

67 %

of Horizon Europe partnership collective resources³ are planned to be allocated to R&I contributing to the Green Deal objectives, a 38 % increase compared to H2020

36 %

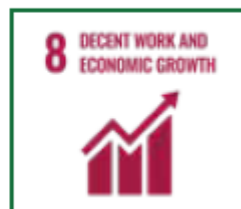
of Horizon Europe partnership collective resources are planned to be allocated to R&I contributing to the resilience objectives, a 74% increase compared to H2020

33 %

of Horizon Europe partnership collective resources are planned to be allocated to R&I contributing to the Digital objectives, a 107% increase compared to H2020

PARTNERSHIPS CONTRIBUTING TO THE SDGS

European Partnerships address in particular the following SDGs:



Examples from [biennial monitoring report of EU partnerships](#).

Some examples why input from partnerships is so valuable

- **Greater support to countries needed** to showcase the great impact and success of partnerships (overview of investments, success stories, highlight priorities etc.)
- **National level coordination** of EU Partnerships and building up databases are planned by majority of the countries, but requires time and sometimes the effort is too big for smaller countries to collect all what would be needed for internal purposes.
- **Country fiches** – very important to give input on success stories, synergies etc. – it would highlight also your success stories and increase your visibility.



KEY HIGHLIGHTS

Compared to Horizon 2020, Estonia's participation in new European Partnerships will be more strategic and better aligned with national priorities. Participation is associated with the focus areas defined in the new Research and Development, Innovation and Entrepreneurship (RDIE) Strategy for 2021–2035. In addition, national level co-funding mechanisms were re-designed to allow a wider range of actors to join EU partnerships.

51 H2020
public
partnerships (*)

Or
51.55%
of total
(99 partnerships)

55 H2020
public
partnerships (*)
participations

Or
2.55%
of total

0 H2020
public
partnerships (*)
coordinations

Or
0%
of total

Source: ERA-LEARN database (cut-off date June 2021), H2020 period (2014–2020) excluding EIT-KICs, EuroHPC and ECSEL

(*) Horizon 2020 public-public partnerships include ERA-NET CoFund, EIPs, Art 185 Initiatives and JPIs. Partnership participations: number of partnerships a specific country takes part as participant – for certain countries more than one national organisation may take part. Thus the participations may be more than the number of partnerships a country is part of. Total partnership participations: number of partners from a specific country participating with any role (i.e. coordinator, participant, observer, other) in partnerships. Partnership coordinations: number of partnerships a specific country coordinates.

€7.1 million

In actual national contributions in public partnerships
during H2020 (2014–2020)

Or **0.21%** of total

€1 533

per researcher FTE (average between 2014–2019 based
on EUROSTAT data)

Source: ERA-LEARN database (cut-off date June 2021), H2020 period (2014–2020)

Actual national contributions is the funding given by each country to cover the participation of national science and technology groups in the funded projects of the joint transnational calls launched by public partnerships. Actual contributions for each researcher are the total of actual contributions by a country divided by the number of researchers in the country estimated in full-time equivalents (FTE) averaged between 2014–2019 based on EUROSTAT data.

KEY INTENTIONS FOR THE FUTURE

In Horizon Europe, Estonia will continue participating in partnerships, with a primary focus on priority areas (Research and Development, Innovation and Entrepreneurship Strategy 2021–2035):

- digital solutions across all areas of life
- health technologies and services
- valorisation of local resources
- smart and suitable energy solutions
- thriving Estonian society, language and cultural space.
- For the new funding period (2021–2035), Estonia's participation in partnerships is more strategic – the participation is primarily focused on initiatives related to the new RDIE strategy 2021–35 focus areas.

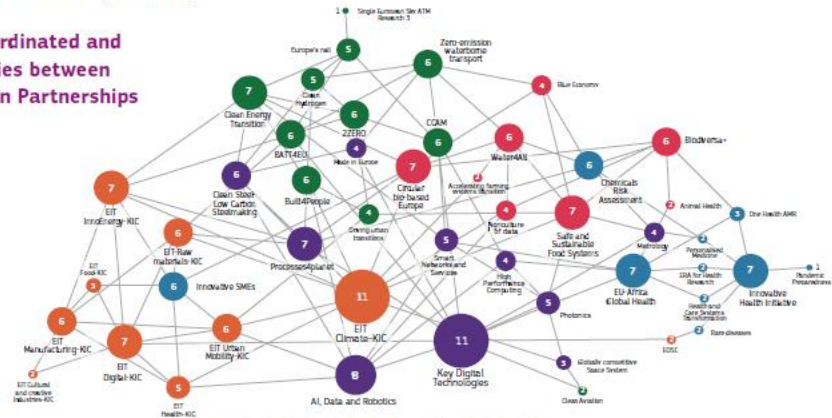
Country fiche: Estonia

Funding decisions are very often based on available data

➡ More possibilities to secure funding with better quality of data (allows different analysis which could be used as a background for making the funding decision).

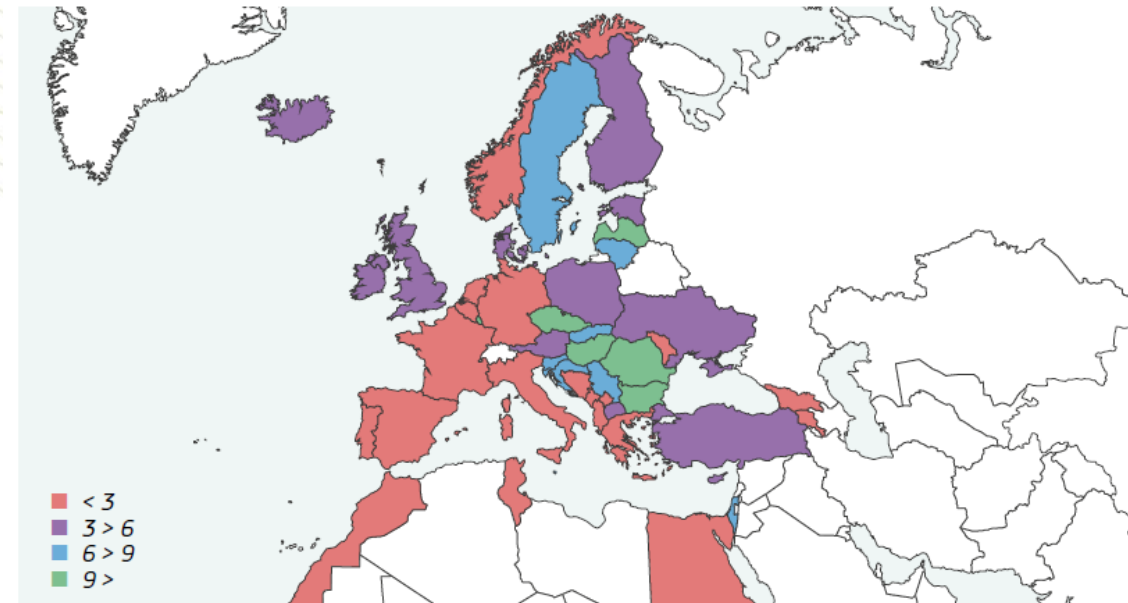
European Partnerships intend to establish numerous collaboration links between themselves. The central position of partnerships such as EIT Climate-KIC and AI, Data and Robotics stand out with the largest number of planned coordinated and joint activities with other partnerships.

Planned coordinated and joint activities between the European Partnerships



Source: Common Indicators Survey, November 2021.

Geographical coverage of targeted newcomer partners (aggregated data for all European Partnerships that participated in the survey)



Source: Common indicators survey.

Examples from [biennial monitoring report of EU partnerships](#).

One of the tasks of the expert group was to find out the data needs of the countries regarding European Partnerships

Specific data needs of countries regarding European Partnerships *

For *partnership level* data:

- General **info on partnership performance** by partnership type and by individual partnership;
- Financial and in-kind **contribution** of EU, MS, and third parties;
- Overview of **joint calls** and **joint activities**;
- **Performance of** the individual **partnership** over time;
- Overview of **partners** in the partnership;
- **Added value** and **impact** of partnerships;
- The **evolution of the partnerships** in terms of topic evolution (e.g. technological advances);
- **Comparison of data issues** from partnerships (especially for calls for projects) with the national data (per topic, per participating institution, complementarity, etc.).

*mentioned in the survey conducted for BMR and during the hearing on 18.05.21

One of the tasks of the expert group was to find out the data needs of the countries regarding European Partnerships

Specific data needs of countries regarding European Partnerships *

For *project level* data:

- Information on which **projects received funding**;
- **Overview of partners** in the partnerships' related projects;
- **Purpose** of the project;
- Final **results** of the projects;
- Further development of eCorda. **eCorda** is much appreciated, but it **could** also **contain data from national level funding agencies** (their funded projects which are connected to partnerships).
- **Which institutions participate** in the projects;
- What kind of **topics** are **covered by funded projects**.

*mentioned in the survey conducted for BMR and during the hearing on 18.05.21

How to go on with the discussions and better support data collection?

Some observations from the work of the expert group:

- Involvement and **co-design process has to continue** (between partnerships, EC (different units) and countries) as a working method.
- Further **development of data exchange** is needed (better interface, extraction of data for analysis etc.).
- **Need to deal with data related issues** like the extent of open access, storing and analysing data etc. High data quality is very important!
- **Continuous support is needed** facilitate smooth data exchange.



#HorizonEU

THE EU RESEARCH & INNOVATION PROGRAMME

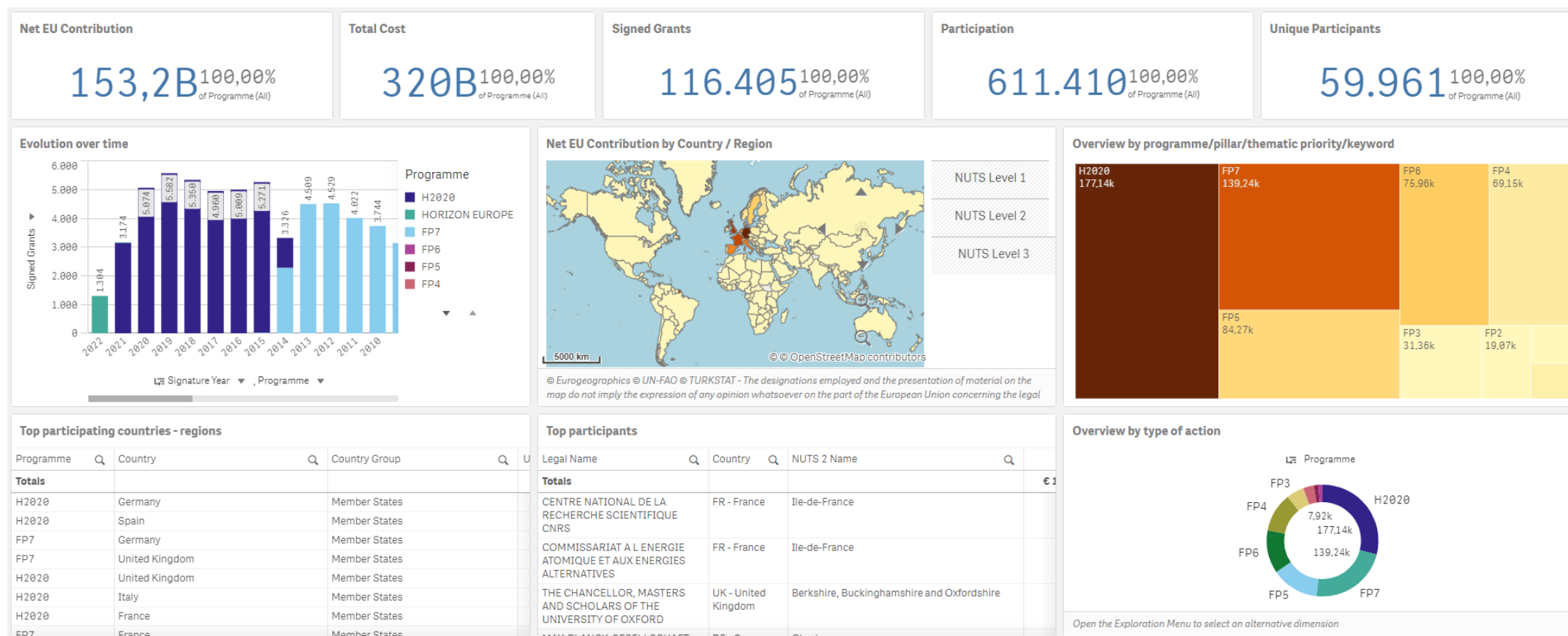
2021 – 2027

DATA STRUCTURE WORKSHOP

Paul Ferdinand Schlag, Data Team Lead GH6

10 June 2022

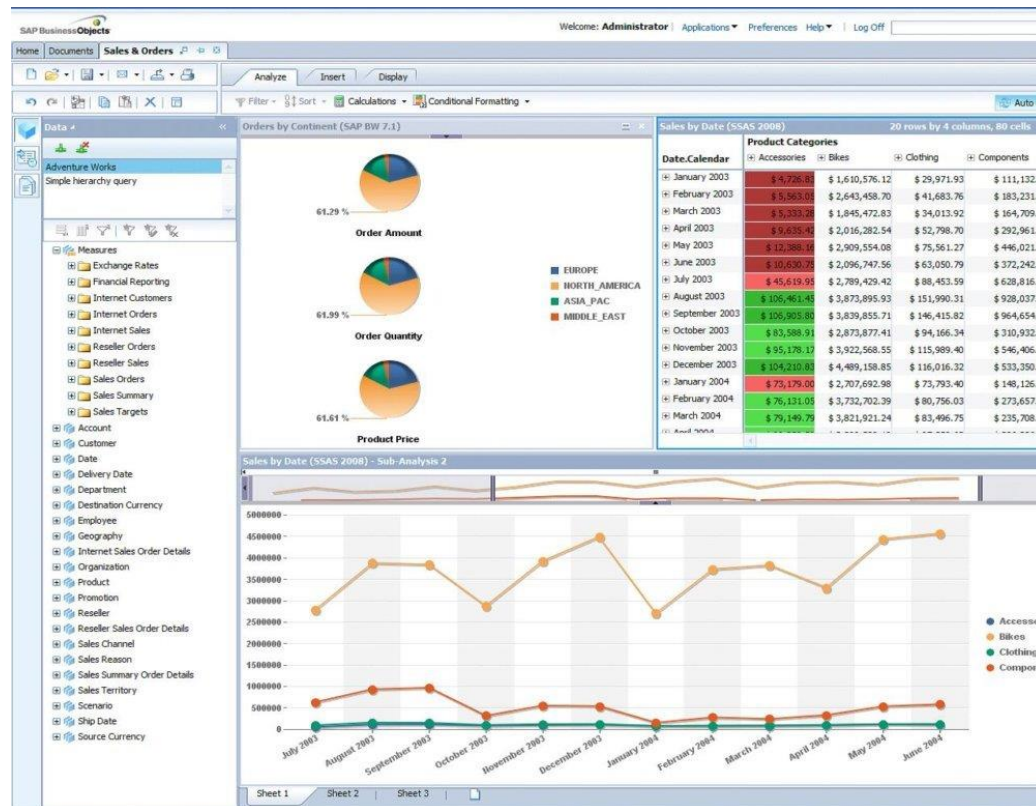
Horizon data services: Reporting tools



Screenshot of the R&I Projects Dashboard

Horizon data services: Reporting tools

SAP BusinessObjects



Comment

- BusinessObjects allows to query the wealth of CORDA data warehouse
- It's the main reporting tool for internal ad-hoc requests and high-profile analyses

Horizon data services: Country briefings

Countrypedia

Comment

Denmark

Created by Paola TRUCCO, last modified by Georgiana HUIBAN on May 18, 2022

Export to Word

Export to PDF

Download Country Briefing for Basis

Performance and Policy Development
Key Economic and R&I Indicators
EU Innovation Scoreboard
Transitions Performance Index
Participation in R&I Programmes
R&I investment under Cohesion Policy Funds
Seal of Excellence
Main Institutional Actors

Participation in R&I Programmes

[Participation in H2020](#) | [Key figures](#) | [EU contribution by region](#) | [EU contribution by thematic priority](#) | [Signed grants over time](#) | [EIC pilot](#) | [H2020 Ranking](#) | [The Horizon Results Platform](#) | [Participants](#) | [Top 10 participants](#) | [SME participants](#) | [Collaborations](#)

The Framework programmes have been the main financial tools through which the European Union supports research and development activities covering almost all scientific disciplines. FPs are proposed by the European Commission and adopted by Council and the European Parliament following a co-decision procedure. The upcoming programme, Horizon Europe, will run from 2021 to 2027 and will have a budget of €95 billion. The previous programme (still ongoing), Horizon 2020, ran from 2014 to 2020.

Participation in H2020

Horizon 2020 is the biggest EU Research and Innovation programme so far with nearly €80 billion of funding available over 7 years (2014 to 2020) – in addition to the private investment that the fund attracts. This section presents an overview on key figures and detailed statistics and data on funded projects and their participants, broken down for each country also by regions, thematic priorities, participants and key actions.

For more information, data and key figures you can visit our detailed [Country Profiles](#).

Have a look to the most recent success stories from EU-funded Research and Innovation on [Europa website](#)

Key figures

The table below presents an overview on H2020 contribution, participation (incl. success rates), SME data and MSCE.

Indicator	Value	% of H2020	Definitions
H2020 Net EU Contribution	€ 1,761,977,790	2.58%	Funding received by project's participants after deduction of their linked third parties' funding
H2020 Participations	3,963	2.25%	Number of organisations involved in Horizon 2020 projects. One organisation participating in N projects is counted N times
H2020 Unique Participants	869	2.14%	Number of unique organisations involved in Horizon 2020 projects. One organisation participating in N projects is only counted once
Success Rate	15.12%	15.25% (H2020 average)	Ratio of the retained applications to the total number of eligible applications received
H2020 SME Net EU Contribution	€ 353,815,150	3.12% (of country total)	Total funding received by SME participants after deduction of their linked third parties' funding

- We also provide ad-hoc briefings and reporting for BASIS through other tools and services, such as Countrypedia
- The briefings are widely used for DG, CAB and other actors across RTD

Data needs of evaluation studies

- In addition, 40+ evaluation studies are conducted and rely on Horizon Data
- Studies usually have a thematic and need targeted datasets

Why this additional process?

- **Umbrella grants** to co-funded partnerships and EIT can be tracked in **CORDA**, but without sufficient detail
- **Cascading grants structure** will provide **additional information** on grants implementation

The process of data integration

Standardized data collection

Via the XLS reporting template



Upload on EU Send server

In a standardized format



Integration into CORDA

Using ETL



Standardized data collection using a reporting template



- An **XML template** has been defined based on the **Horizon Europe Periodic Reporting template**. it defines the data to be collected.
- The requested data definitions are **based on the minimal set of data**, which must be collected to **comply with EC reporting needs** and framework programme **evaluations**
- Most of the **data elements** are mandatory
- Some are **obligatory if the business reality** of the partnerships **does not correspond** to the nature of data collected. Deviations from mandatory data shall be made with justification, **with the exception of EIT related fields** for other partnerships.

Mandatory elements in reporting template



- We collect 128 data points in 10 categories:
 1. Researchers involved
 2. Results
 3. Publications
 4. Datasets
 5. IPRs
 6. Standards
 7. Impact on SDGs
 8. Citizen engagement
 9. Company identification

There are two types of values: Open and closed



Category	Item	Values
Policy trackers	Climate	0%-40%-100%
	Biodiversity	0%-40%-100%
	Digital	0%-40%-100%
RESEARCHERS INVOLVED IN THE PROJECT		
	First Name	
	Surname	
	Gender	Woman Man Non-binary
	Nationality	List of country codes

Optional elements in reporting template: Proposal (1/2)



Class	Element	Condition	Recommended
Proposal	FreeKeywords		Yes
	RequestedGrantEU	If not available because not differentiated by applicants	
	RequestedGrantNat	If not available because not differentiated by applicants	
	WebLink		
Proposal:Applicant	Cedex		
	ParentPic	If not Third Party	
	PoBox		
	ShortName		
	StreetNbr		
	Url		
	Latitude		Yes
	Longitude		Yes
	NaceCode		Yes
	NutsCode		Yes
	RequestedGrantEU	If not available because not differentiated by applicants	
	RequestedGrantNat	If not available because not differentiated by applicants	

Optional elements in reporting template: Proposal (2/2)



Class	Element	Condition	Recommended
Proposal	FreeKeywords		Yes
Proposal:Applicant:ApplicantDepartments	Latitude		Yes
	Longitude		Yes
	NutsCode		Yes
Proposal:Applicant:ApplicantPersons	Title		
Proposal:Applicant:ProposalResearcher	IdentifierOtherName	If TypeOfIdentifier value != Other	
	IdentifierValue		
	TypeOfIdentifier		
	Title		

Optional elements in reporting template: Projects (1/2)



Class	Element	Condition	Recommended
Project	NetworkWebPage		
	PartnershipWebPage		
	Url		
	FreeKeywords		Yes
Project:Participants	Cedex		
	LegalRegNumber	If not applicable	
	OrgEmail		
	OrgPhone		
	OrgWebPage		
	ParentPic	If not Third Party	
	PartnerRemovalStatus	If not applicable	
	ProjectEnterDate	If not applicable	
	ProjectExitDate	If not applicable	
	PoBox		
	ShortName		
	StreetNbr		
	Vat	If not applicable	
	Latitude		Yes
	Longitude		Yes
	NaceCode		Yes
	NutsCode		Yes

Optional elements in reporting template: Project



Class	Element	Condition	Recommended
Project	NetworkWebPage		
Project:Participants:Departments	Latitude		Yes
	Longitude		Yes
	NutsCode		Yes
	StreetNbr		
Project:Participants:ContactPersons	Title		
Project:Participants:ProjectResearchers	IdentifierOtherName	If TypeOfIdentifier value != Other	
	IdentifierValue		
	TypeOfIdentifier		
	Title		

EIT-related elements are non-applicable for all other partnerships



- CrossKicCategory
- EITActivityCategory
- EitArea
- EitSegment
- HeiActivity
- ProjectRankingGroup
- RisActivity
- RisCountry
- HeiMember
- ContributingEITKICs

Technical deep-dive: Upload of template on file exchange server



- XML files will be provided by each partnership and uploaded to an **EU Send server**.
- **One user** will be created and is **expected per partnership**.

Content of the file:

- **One project or proposal** is to be provided **per XML file**;

Important remarks:

- **Updated versions** of proposal / project **must contain all linked information** (such as Participant, Researchers, etc.);
- **No deletion process** of the information provided **is foreseen**, which means that if the partnership provides a first file and then replaces it with a second, any information that will be in the first file and not in the second will not be removed from the tables in the datawarehouse.

Technical deep-dive: Upload of template on file exchange server



FILE NAMING CONVENTION

A file naming convention will need to be applied to the XML file provided :

`_<PROP, PROJ, REPORT>_<PartnershipName>_<SourceProposalNbr/SourceProject1Nbr>.xml`

- `<PROP, PROJ, REPORT>`: indicates the content of the file;
- `<Partnership Name>`: indicates the concerned partnership (i.e. AgriData, EIT, HealthCare ...);
- `<SourceProposalNbr/ SourceProject1Nbr>` indicates the proposal number of project number for which the information is provided in the file.

Technical deep-dive: Upload of template on file exchange server



REGISTERING AND UPDATING METADATA OF THE FILE

The **metadata** of the XML file **will be registered to a table and updated** with any update to the file.

- Information on the name of the file, the size of the file, the date the file was received, will be kept.

Technical deep-dive: Upload of template on file exchange server



VERIFYING THE XML FILE

The XML file will be **checked and validated** for formatting (naming, data in the file ...).

An email informing about the status will be sent to the partnership:

- If the file **passes the checks**, the partnership will **receive an email informing** it that **the file has been received** and will be processed as soon as possible.
- In the event that the file is **not correctly formatted**, the partnership will **receive an email informing** it that the **file has been received but** that it is not correctly formatted and **requires some corrections** before being submitted again.

Technical deep-dive: Upload of template on file exchange server



VERIFYING XML DATA CONTENT

A **second validation step** will take place, in which RTD.H.DEP.IT will **check and validate** if the XML has the right **data content**:

- If the file passes the checks, the partnership will receive an **email informing it that the file has passed the checks** and that the data has been properly integrated.
- In the event that there is an issue with the file (**data content or data integration issues**), the partnership will receive an **email informing** it that there is a problem with the file and that the **file requires some corrections** before being submitted again. The **reason(s) of the rejection** of the file **will be included** in the communication.

Questions?



SUPPORT AND CONTACT

RTD-EGDR-DATAIMPORT@ec.europa.eu

Communications to the partnerships

Several **communications** will be provided to the partnerships:

- If the **XML is not well formatted**;
- If the **XML is well formatted**, we inform the partnerships it **has been received** and will be processed soon.
- If there is **issue detected during the second validation step** (data integration). The reason of the XML rejection will be included in the communication.
- If an **error is detected during the data integration**, information is sent to the **developers** to verify if there is no error in the ETL. **If the issue is in the XML file** directly, we will **contact the partnership** contact.
- If the **data integration has been successfully** completed.

Status of templates and reporting process

- XML/XSD for **proposals: developed** – under testing with EIT
- XML/XSD for **projects**:
 - Analysis completed.
 - **Development** should **start in Q3** or Q4 2022
- XML/XSD for **results: IT Analysis should start in Q3/2022**, Development should start Q4 2022

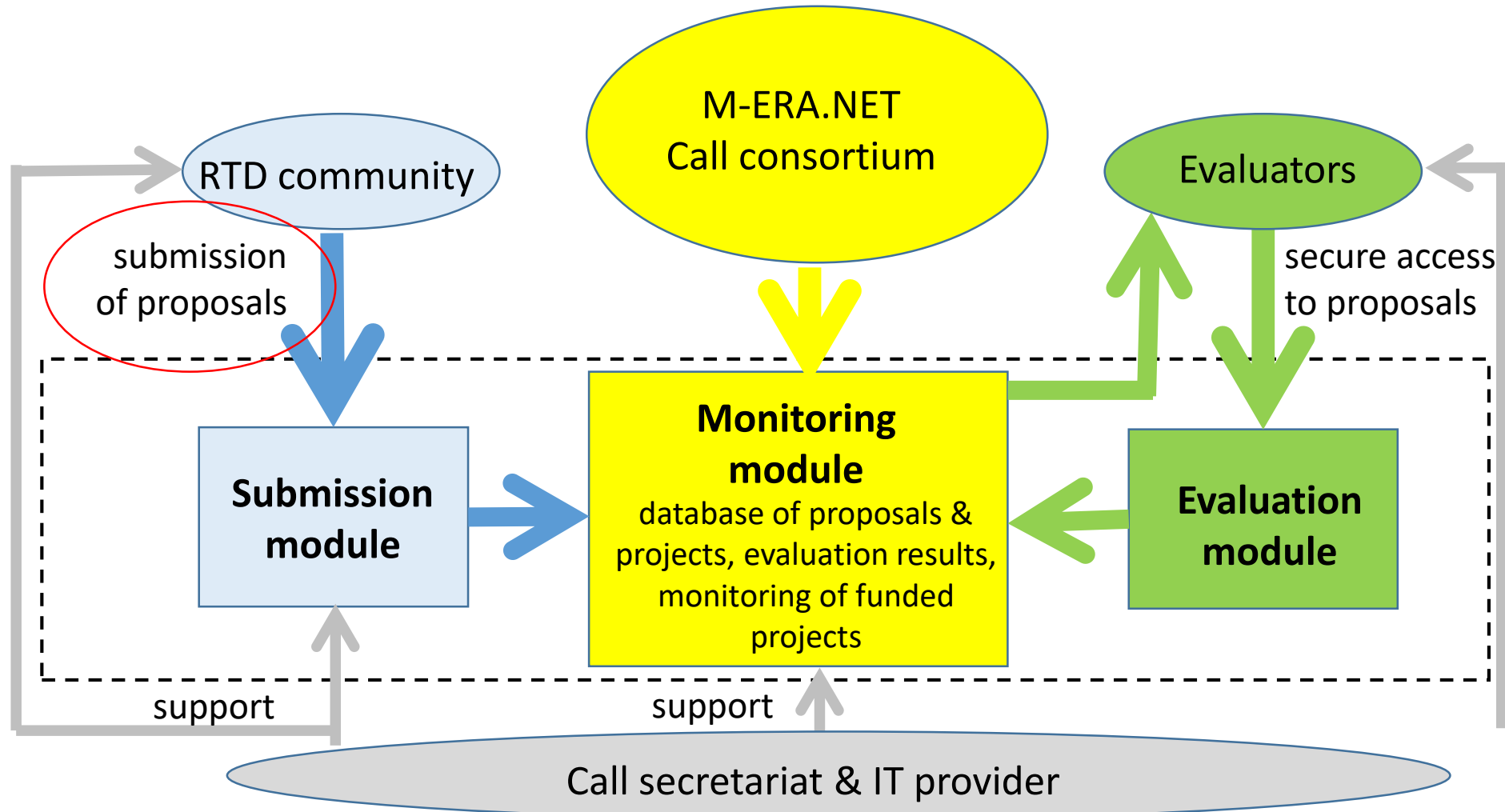


Workshop on data transfer for co-funded European Partnerships - Experiences from M-ERA.NET pilot

Electronic proposal management system

M-ERA.NET IT system

- web-based tool
- supports the call operation including proposal submission, evaluation and monitoring of projects through 3 modules:



M-ERA.NET submission tool

<https://m-era.net/submission/submission/call-2022/>

Proposal Details

Project Partner

Submit

Proposal Details

Edit Proposal

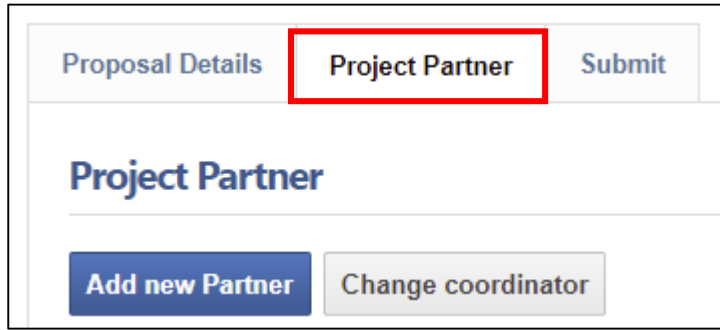
Your provided information is complete.

Project reference number	project10001
Acronym	TEST-CS-SLM
Title	Test of the Submission Tool - performed for the Call Secretariat
Project summary	Testtext test test test
Keywords	electrochemical energy conversion, lithium sulfur battery, sodium ion batteries

Proposal Details:

- information on the whole proposal
- keyword describing the proposal
- automatic generated eligibility checks on project level

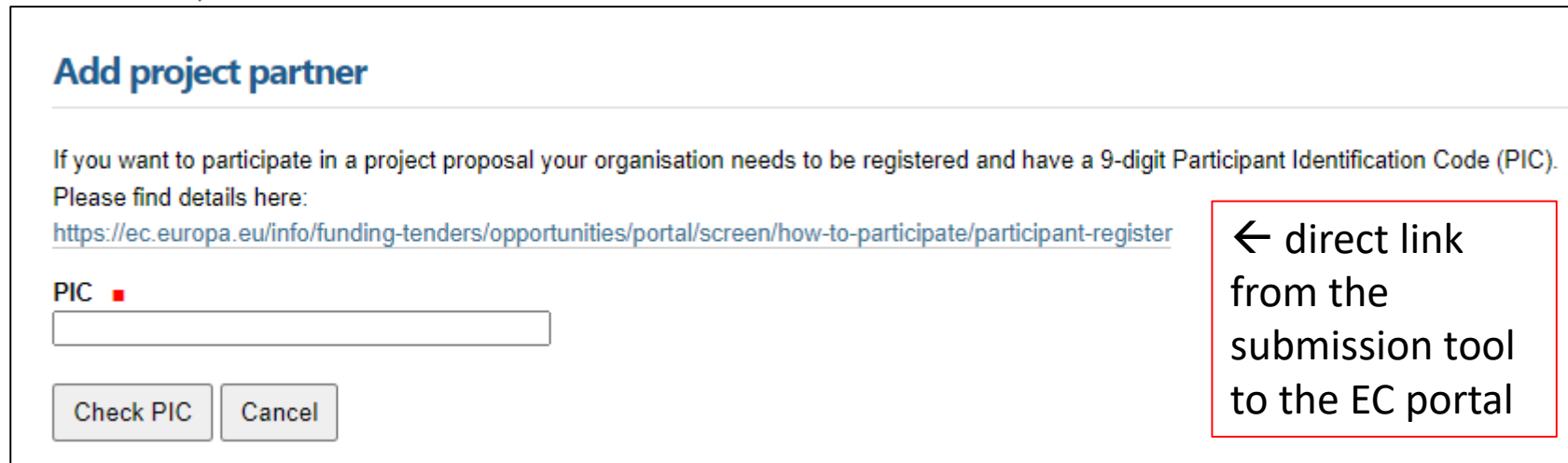
M-ERA.NET submission tool: PIC required



Proposal Details **Project Partner** Submit

Project Partner

Add new Partner Change coordinator



Add project partner

If you want to participate in a project proposal your organisation needs to be registered and have a 9-digit Participant Identification Code (PIC). Please find details here:
<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/participant-register>

PIC

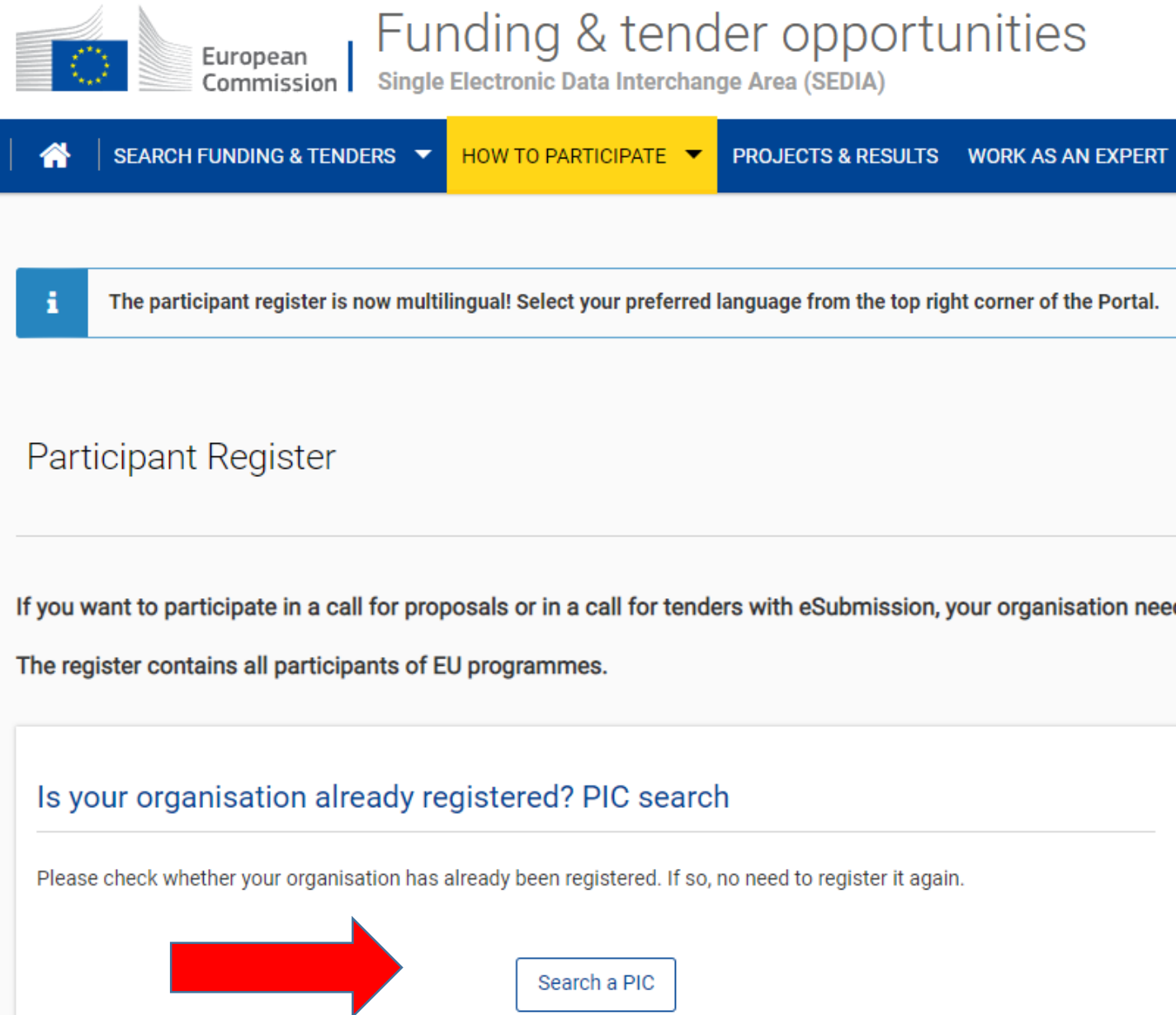
Check PIC Cancel

Project Partner:

- overview of project consortium
- detailed information on the individual project partner
- manage consortium constellation

← direct link
from the
submission tool
to the EC portal

EC PIC database



The screenshot shows the top section of the EC PIC database website. At the top left is the European Commission logo. To its right is the text 'Funding & tender opportunities' and 'Single Electronic Data Interchange Area (SEDIA)'. Below this is a dark blue navigation bar with a home icon, 'SEARCH FUNDING & TENDERS', 'HOW TO PARTICIPATE' (highlighted in yellow), 'PROJECTS & RESULTS', and 'WORK AS AN EXPERT'. Below the navigation bar is a light gray box containing an information icon and the text: 'The participant register is now multilingual! Select your preferred language from the top right corner of the Portal.' Below this is the heading 'Participant Register'. Further down is the text: 'If you want to participate in a call for proposals or in a call for tenders with eSubmission, your organisation needs to be registered in the Participant Register. The register contains all participants of EU programmes.' Below this is a section titled 'Is your organisation already registered? PIC search'. It contains the text: 'Please check whether your organisation has already been registered. If so, no need to register it again.' At the bottom right of this section is a button labeled 'Search a PIC'. A large red arrow points from the left towards this button.

European Commission | Funding & tender opportunities
Single Electronic Data Interchange Area (SEDIA)

SEARCH FUNDING & TENDERS | HOW TO PARTICIPATE | PROJECTS & RESULTS | WORK AS AN EXPERT

i The participant register is now multilingual! Select your preferred language from the top right corner of the Portal.

Participant Register

If you want to participate in a call for proposals or in a call for tenders with eSubmission, your organisation needs to be registered in the Participant Register. The register contains all participants of EU programmes.

Is your organisation already registered? PIC search

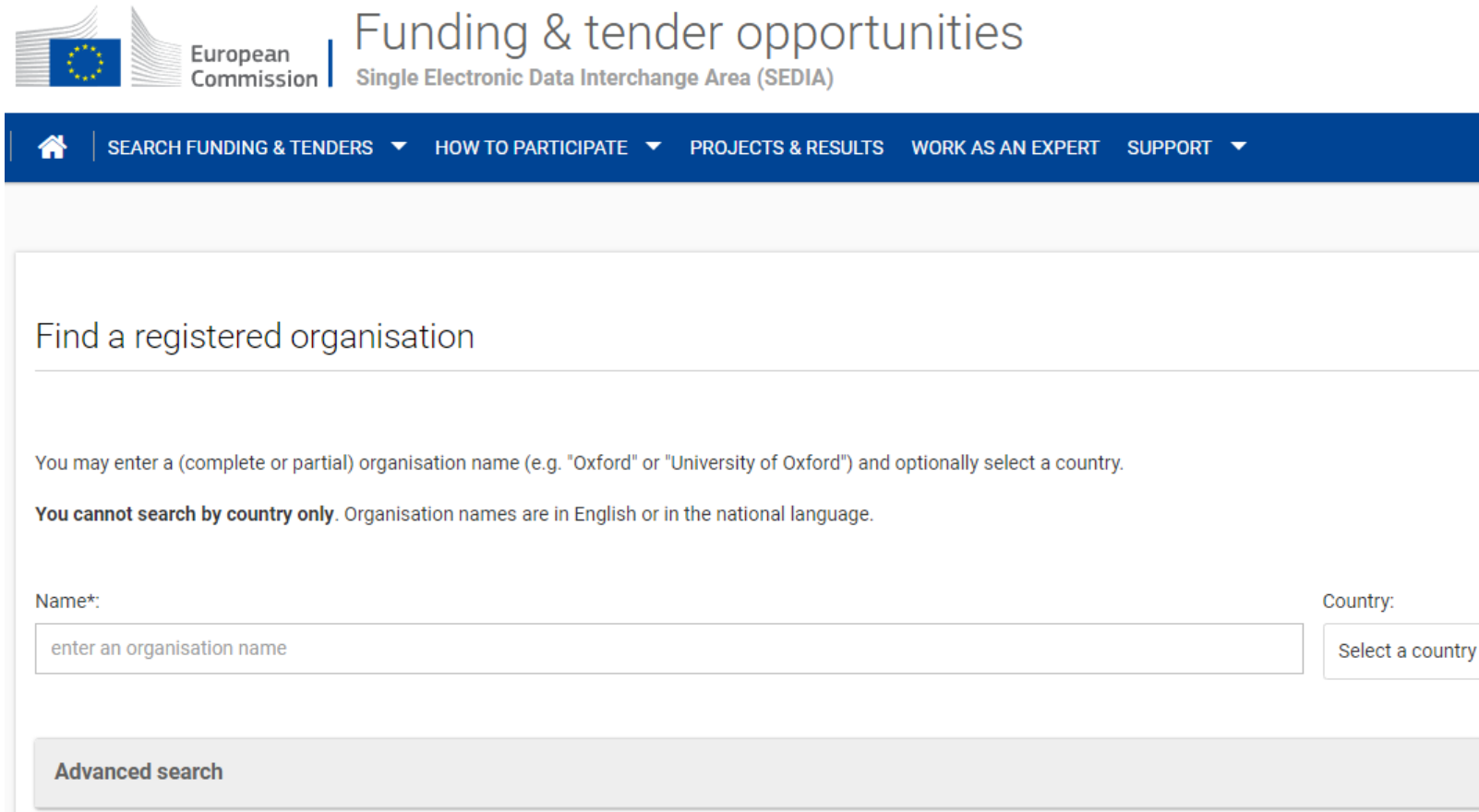
Please check whether your organisation has already been registered. If so, no need to register it again.

[Search a PIC](#)

PIC search:

- direct link from the submission tool to the EC portal

EC PIC database



The screenshot shows the EC PIC database website. At the top, there is a header with the European Commission logo and the text 'Funding & tender opportunities' and 'Single Electronic Data Interchange Area (SEDIA)'. Below this is a navigation bar with links: 'SEARCH FUNDING & TENDERS', 'HOW TO PARTICIPATE', 'PROJECTS & RESULTS', 'WORK AS AN EXPERT', and 'SUPPORT'. The main content area is titled 'Find a registered organisation'. It contains a text input field for 'Name*' with the placeholder 'enter an organisation name' and a dropdown menu for 'Country' with the placeholder 'Select a country'. Below these fields is a button labeled 'Advanced search'.

European Commission | Funding & tender opportunities
Single Electronic Data Interchange Area (SEDIA)

SEARCH FUNDING & TENDERS | HOW TO PARTICIPATE | PROJECTS & RESULTS | WORK AS AN EXPERT | SUPPORT

Find a registered organisation

You may enter a (complete or partial) organisation name (e.g. "Oxford" or "University of Oxford") and optionally select a country.

You cannot search by country only. Organisation names are in English or in the national language.

Name*: Country:

Advanced search

PIC:

- insert name of the organisation and the country
- result: list of matches

M-ERA.NET submission tool: data import from EC portal

Add project partner

If you want to participate in a project proposal your organisation needs to be registered and have a 9-digit Participant Identification Code (PIC). Please find details here:

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/how-to-participate/participant-register>

PIC is valid. We found the following information.

PIC	999751938
Legal name	THALES
Country	France
City	COURBEVOIE
Street	TOUR CARPE DIEM PLACE DES COROLLES ESPLANADE NORD
Postalcode	92400

Create partner

Cancel



M-ERA.NET

Edit Partner Details

PIC	999751938
Legal name	THALES

Optional: Please choose the NACE Code (Nomenclature statistique des activités économiques dans la Communauté européenne) of your organisation.

NACE Codes can be found here:

https://ec.europa.eu/eurostat/ramon/nomenclatures/index.cfm?TargetUrl=LST_NOM_DTL&StrNom;=NACE_REV2&StrLanguageCode;=EN&IntPcKey;=&StrLayoutCode;=HIERARCHIC

NACE code

■ Organisation

■ Organisation type

■ Department

■ Street

Name of the street including the number of the building

■ City

City where the partner organisation is located

■ Postal code

Postal code of partner organisation

M-ERA.NET submission tool:
imported data transferred into online form

M-ERA.NET submission tool

Proposal Details Project Partner Submit

Project Partner

Add new Partner Change coordinator

	Type	Status	Organisation	Costs	Requested funding	Person month	Funding organisation
	Coordinator		Thales	800.000 EUR	800.000 EUR	60	Agence Nationale de la Recherche (ANR)






necessary data available

- further partners are added following the same principle

Proposal Details Project Partner Submit

Project Partner

Add new Partner Change coordinator

	Coordinator		Thales
 	Partner		Test-Partner

M-ERA.NET pilot: experience with PIC

- implemented for the co-funded Call 2021
- smooth technical implementation
- user friendly design
- almost 500 pre-proposals and more than 2100 applicants
- less than 1% of applicants raised questions about PIC requirements
- survey among applicants did not reveal any issues with data structure

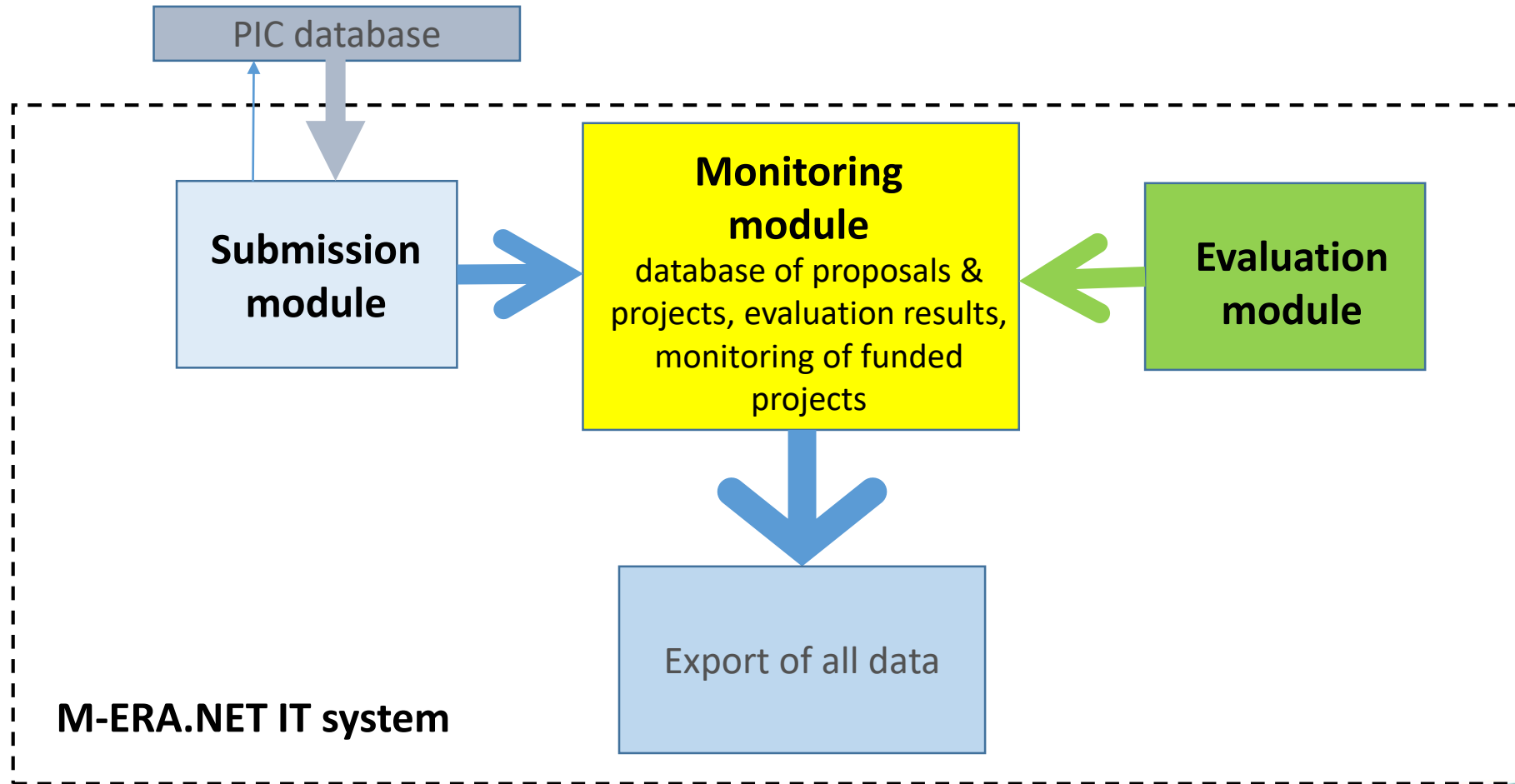


Workshop on data transfer for co-funded European Partnerships - M-ERA.NET pilot technical perspective

M-ERA.NET experience: technical perspective

- Goal of M-ERA.NET pilot: check the mandatory EC data structure and provide feedback to EC
- Testing the mandatory EC data structure against the real data structure of M-ERA.NET systems
- VDI/VDE-IT in charge of implementing the M-ERA.NET data pilot

Data flow



Export example: proposal data (selected full proposal)

Submission-ID	project9001
State	recommended for funding
Acronym	2021 TestFFG
Title	FFG is testing Call 2021
Keywords	3D parts, 3D printing, 3D model
Topic	High performance composites
TRL project start	1
TRL project end	9
Project Start	2020/03
Project duration (month)	30
Total person months	100
Total costs	335000
Total funding	10000
Evaluation result	14
Evaluation threshold	above
Partners agreement	1
Data privacy policy	1
Publishable Summary	FFG is testing the submission tool of Call 2021.
Project Summary (Non public)	FFG is testing the submission tool of Call 2021.

Export example: partner information

Type	Coordinator	Partner
Submission-ID	project9001	project9001
Project State	recommended for funding	recommended for funding
Project Acronym	2021 TestFFG	2021 TestFFG
Project Title	FFG is testing Call 2021	FFG is testing Call 2021
Project Topic	High performance composites	High performance composites
Partner-ID	partner001	partner002
Partner State	recommended for funding	recommended for funding
Organisation	Testorg123	Test456
Type of Organisation	SME	Other
Lastname	Mustermann	Musterfrau
E-Mail	max.mustermann@ffg.at	susanne.musterfrau@ffg.at
Phone	+436638158042	+436628158042
Street	Richardstr. 201	SENSENGASSE 101
Postalcode	10249	1090
City	Berlin	Vienna
Country	Germany	Austria
TRL Project Start	4	2
TRL Project End	6	3
Agency Country	DE	AT
Agency Number	7	1
Agency PIC	897627525	999507207
Agency	DE-JÜLICH	AT-FFG BP
Planned Funding	8000	1000
Planned Costs	10000	25000
Person Months	20	70
Pre-Proposal Eligible	Yes	Yes
Full-Proposal Eligible	Yes	Yes
Full-Proposal Check Comment	The proposal is recommended for funding	The proposal is recommended for funding
Evaluation Result	14	14
Evaluation Threshold	above	above
PIC	1348133333	999507207
Legal Name	testorg123	ÖSTERREICHISCHE FORSCHUNGSFÖRDERUNGSGESELLSCHAFT MBH

Necessary changes for M-ERA.NET

EC data structure mandatory fields	28 (proposal sheet)
M-ERA.NET system already provided	24
New fields on call level	<ul style="list-style-type: none">• Action Type• CallDeadlineDate
Fields added to submission system	<ul style="list-style-type: none">• PIC• NACE Code• Researcher
Data computed in the export	<ul style="list-style-type: none">• Latitude• Longitude• NUTS Code• FixedKeywords

M-ERA.NET pilot: lessons learned

- Most of the mandatory data were already available in our database
- Modifications of the submission system to receive additional data like PIC or contact persons did not cause any technical difficulties
- Further implementations needed: update internal database to store additional information such as results of selection list , call end date or other metadata.
- Information and guidelines provided by EC were very helpful

Practical recommendations

- Generate geo coordinates and Nuts code with API (Application Programming Interface) during export
- Use the recommended API to check PIC
- Map EC data structure to specifications defined for your individual IT tools (e.g. synchronise expressions: EC expression “Proposal: StageExitStatus”; M-ERA.NET expression “Proposal status”)
- Improve your submission system to get missing information from the applicants
- Test your generated xml files against the xsd specifications



#HorizonEU

THE EU RESEARCH & INNOVATION PROGRAMME

2021 – 2027

WRAP UP AND OUTLOOK

Elena-Mihaela Williams, RTD G.4

Thank you!