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TOPIC ID: HORIZON-INFRA-2021-DEV-02-01

# Discussion on RoadMap and ET-PP Deliverables

M. Martínez

ET-PP annual meeting

18th June 2024




<https://etpp.ifaes.es>



# First the Good News

- EC send a letter today proceeding with payments
  - This formally closes the RP1 period
- Now it is time to focus on RP2

 Ref. Ares(2024)4385713 - 18/06/2024



EUROPEAN RESEARCH EXECUTIVE AGENCY (REA)

REA.C – Future Society  
C.4 – Reforming European R&I and Research Infrastructures

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**Subject: Horizon Europe (HORIZON)**  
**Project: 101079696 — ET-PP**  
**Reporting period: RP 1**  
**Interim payment (Data Sheet 4.2, Article 22.3.3)**

Dear Madam/Sir,

In connection with your request for interim payment, I would like to inform you that we will soon make an interim **payment** of **EUR 475 205.30**.

You will find the detailed calculations (including cost rejections and limit to the interim payment ceiling, if any) in the enclosed documents.

# Interaction with EC officer

- Boundary Conditions
- Situation of different WPs
- Preparation for EC meeting



ET-PP is a project supported by the European Commission Framework Programme Horizon Europe Coordination and Support action under grant agreement 101079696

# Boundary Conditions

- Special meeting in October 2024 with EC Officer
- Formal review on M30 (March 2025)



# WP1

- Deliverables D1.1 and D1.2 now done
- No other deliverables in the list
  
- D1.1 and D1.2 to be revisited before the end of project (Summer 2026)

## Overview Deliverables WP2 (2022-2026)

- 2.1. Report providing options for a legal entity (October 2023/March 2024)
- 2.2. Minutes of meetings with involved Ministries (BGR) and EC (October 2023)
- 2.3. Legal documents and content for statutes (Q3 2025)
- 2.4. Roadmap to establish the legal entity (Q3 2026)

### Revised Del 2.1. Study and analysis on governance: Intermediate paper (March 2024)

1. Construction and maintenance phase
  - Focus on 'hybrid', ERIC, IGO
2. Design and preparatory phase (phase I)
  - Intermediate legal entity

➤ **WP2 working group: objective to support the ET concept**

16-6-2024

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16-6-2024

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## Next steps WP2

### Request to EC officer: amendment Del. 2.3. Legal documents and content for statutes

- Extension of the deadline
- Amendment: a strawman governance model for ET infrastructure, (outline for statutes)  
Actionlines:
  1. Collecting practices and lessons learned from the governance models
  2. Develop placeholders for the elements of the governance structure (e.g. decisionmaking, line of authority, access policies, finance committee)

### Considerations for request for amendment:

- legal documents are not feasible within the deadline of the Deliverable
- current state of discussion in BGR → no expectations of consensus on a preferred legal framework soon
- experience from other large scale research infrastructures with regard to the length of negotiation process

### Governance development 2024-2025

- Continuous exchange and interaction with BGR on legal frameworks for each phase of the ET project
- Support the ETO directorate on organisational aspects

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WP2 would like to request amendment of D2.3 (legal documents and content for statutes) and delay it

- Need 1 page document to justify the request
- Need new proposed date for delivering D2.3 [it is out of the scope of RP2 anyway]
- How this talks to D2.4 plans ?

# WP3



## WP 3: Deliverables and milestones

D3.1 - M36 - Handbook for design and construction phase  
D3.2 - M42 - Handbook for operation phase  
D3.3 - M48 - Financial Plan and Scenario Analysis

**Can we have a view of how D3.1 & M3.1 would look like ?  
Little room to delay D3.2 and D3.3**

M3.1 - M33 - Constitution / first meeting of the resource board, accompanied by a workshop

There are no deliverables nor milestones yet finalized

The plan of having late deliverables/milestones is a consequence of the dependence of our work on the legal status / site / design choices / ...

WP3 anticipates the possibility of delaying the Deliverables and Milestones

- None of the deliverables are expected before RP2 period
- Can we present a coherent plan with WP2 ?
- Need 1 page document to justify the request

# WP4

At this point we need to discuss further ....

## WP4 – Update June 16<sup>th</sup> 2024

	Deliverable	Current Status	Mitigation	Estimate
M 4.1	Document detailing site-specific characteristics that impact ET sensitivity and its duty cycle Lead institute: Nikhef, timing: 9/22 + 10 = 7/23	Report published, was considered not quantitative enough	Will be updated (by inserting referenced documents) and resubmitted.	End 6/24
M 4.2	Common methodology to estimate impact of site characteristics on ET sensitivity and operation, and if required, a scheme to compensate it Lead institute: INFN, timing 9/22 + 15 = 12/24	Milestone not yet met. Common methodology is still being developed. Delayed by different site time lines.	Discussion in SPB/WP4, and host sites. Developing a more realistic timeline for individual methodologies to be published 9/24.	6/24 first draft
D 4.1	Scan of legal procedures, permitting and land acquisitions (steps to be taken prior to starting excavations) Lead institute: Nikhef, timing: 9/22 + 10 = 7/23	Delivered		Delivered
D 4.2	Updated socio-economic impact studies. Scan of accessibility, quality of life etc. Lead institute: INFN, timing 9/22 + 15 = 12/23	Update is being worked by individual local teams, but will still be limited due to incomplete information (localization, subsurface geology, geo-technical understanding).	Maintain an updated view based on new incoming information.	10/24 for updated view
D 4.3	Complete quantification of all aspects impacting ET performance for both sites Lead institute: UW, timing 9/22 + 28 = 1/25	Depending somewhat on current work progress, and teams availability, discussions with ETO	Work according to plan and contracts, discussions in SPB, ET Symposium	Expected 12/24 9/24 new time line
D 4.4	3D Geology, hydro-geology and modeling Lead institute: INFN, timing 9/22 + 30 = 3/25	<b>Work ongoing, main body of activities</b> at both sites. Local site funding and contracting result in different timeline	Work according to plan and contracts. Redefining and optimized workflow and responsibilities between Sites and ETO	Sardinia: being discussed in contract EMR: expected 1/26
D 4.5	Updated cost and schedule estimates of excavations, including noise cancelation, surface preparation costs (permitting, debris removal, land acquisition etc.) Lead institute: Nikhef, timing 9/22 + 42 = 3/26	<b>Work ongoing, main body of activities</b> at both sites. Local site fundunding and contracting result in different timeline	Work according to plan and contracts. Redefining and optimized workflow and responsibilities between Sites and ETO	Sardinia: 6/25 EMR: 6/26



# WP5

## Looking into 2024 - PO/ED

No concerns ?

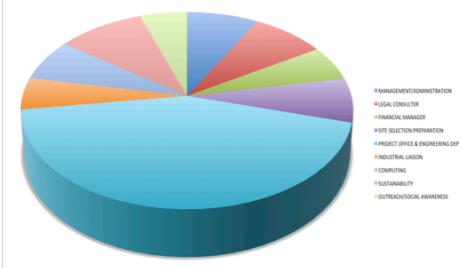
WP	N in WP	Name	LB	Type	Dissemination level	Due date (month)	Date	Status
5	D5.1	Structure and mandate of the Project Office	CNRS	R	PU	25	30/09/2024	
5	D5.2	Functionalities required from the tools in support of the project management	CNRS	R	PU	25	30/09/2024	
5	D5.3	Structure and mandate of the Engineering Department	CNRS	R	PU	25	30/09/2024	
5	D5.4	Funcional Engineering Department	NIKHEF	R	PU	28	31/12/2024	
5	D5.5	Funcional Project Office	INFN	R	R	28	31/12/2024	

2024 will be a very intense year with increasing numbers of milestones (8) and deliverables (15)

All 5 deliverables from WP5 in Fall 2024

PO/ED Hiring process well advanced as part of the ETO structure

Position	Institute	Status
System engineer	NIKHEF (in-kind)	Hired
Parameter, Layout & Risks	CNRS	Hired
Software engineer	CNRS	Hired
Vacuum engineer	CNRS	Hired
Civil engineer	NIKHEF	Hired
Technical infrastructure engineer	INFN	Selection in progress



15

### Milestones

4	The recruitment of the Project Office team is completed.	WP5	4-CNRS	Report.	15
5	All three documents (WP5-D5.1, D5.2 and D5.3) are published.	WP5	4-CNRS	Report.	25
6	The Engineering Department as a functional unit complete	WP5	5-NIKHEF	Report.	27

Done  
**September 2024**  
**November 2024**

# WP6

## WP6 - Deliverables



- D6.1 Refined Science Case (M18) – Feb24
- D6.2 Vacuum pipe Design (M24) – Sept 24;
- D6.3 Preliminary RI TDR (M24) – Sept24;
- D6.4 Preliminary DET TDR (M24) – Sept24;
- D6.5 RI TDR (M40) – Feb26;
- D6.6 DMP and Data Access Policy (M46) – Jul26.

### D6.1 Refined Science Case



- Suggested strategy:
  - No need to push the Collaboration to obtain a polished version within Sept24
  - Proposal: Ensure delivery of the finalised version of the Blue Book by Feb25, but submit the CoBA paper and the complete draft version of the Blue Book to the EU officer as a preliminary «proof-of-state» in Sept24

I understand the plan is to delay D.6.1 by 6 months — then an updated version by Feb 2025

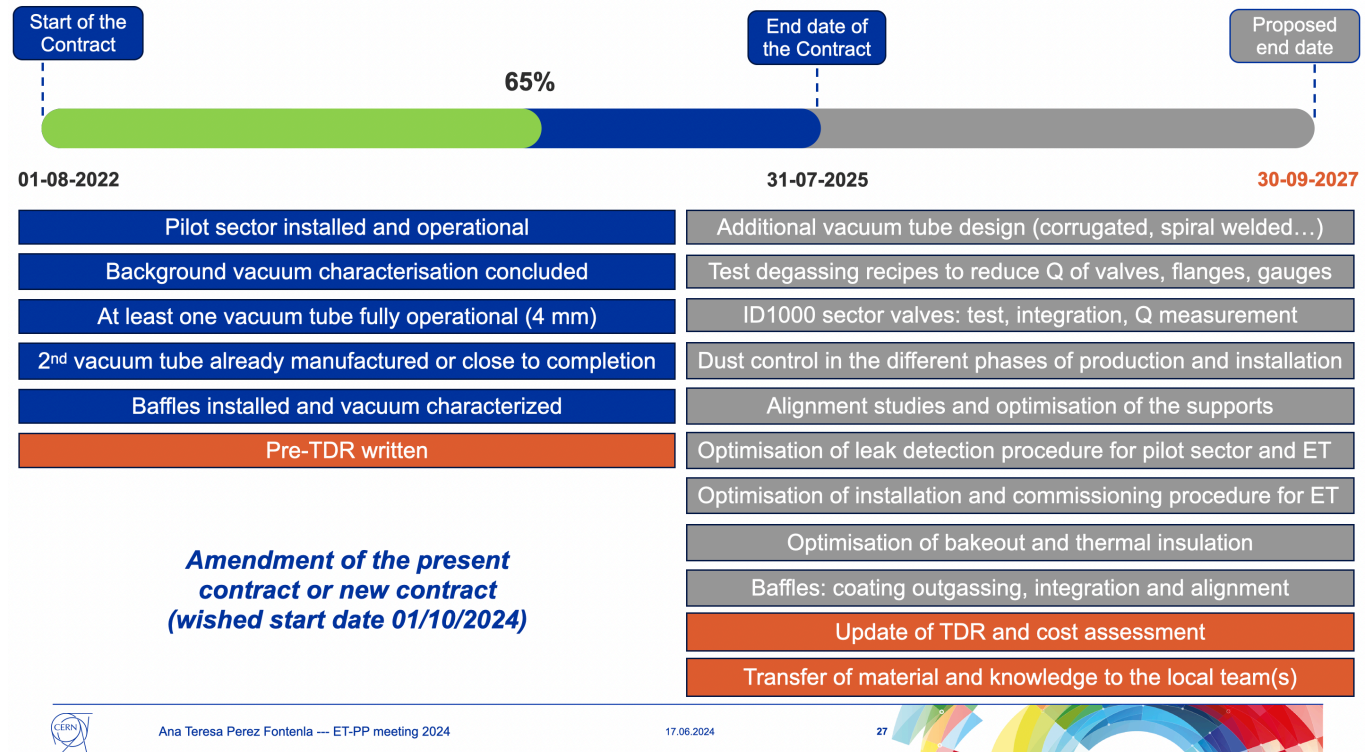
- Need a 1 page document to defend it
- Blue Book is OK .. CoBA is not published with ET-PP recognition

A priory this is defensible

# WP6

## WP6 - Deliverables

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- D6.2 Vacuum pipe Design (M24) – Sept 24;
- D6.3 Preliminary RI TDR (M24) – Sept24;
- D6.4 Preliminary DET TDR (M24) – Sept24;
- D6.5 RI TDR (M40) – Feb26;
- D6.6 DMP and Data Access Policy (M46) – Jul26.



Need to define a strategy for delivering D6.2 (nominally due Sept 2024)

- CERN is committed to deliver a version in time
- It will follow by a TDR by the end of the CERN project (July 2025 ? — later?)

# WP6

## WP6 - Deliverables



- D6.1 Refined Science Case (M18) – Feb24
- D6.2 Vacuum pipe Design (M24) – Sept 24;
- D6.3 Preliminary RI TDR (M24) – Sept24;
- D6.4 Preliminary DET TDR (M24) – Sept24;
- D6.5 RI TDR (M40) – Feb26;
- D6.6 DMP and Data Access Policy (M46) – Jul26.

Need a strategy for D6.3 and D6.5 — Preliminary RI TDR and RI TDR

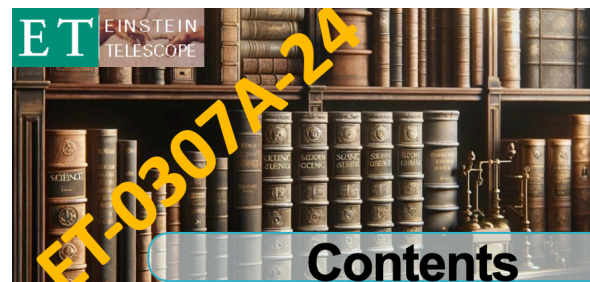
- This is under ETO umbrella assisted by ETC
- Can we anticipate a new date and new scope of the document ?
  - CERN - related deliverables could already bring us to Summer 2025



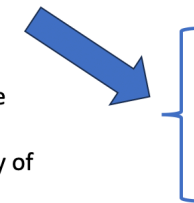
# WP6

## WP6 - Deliverables

- D6.1 Refined Science Case (M18) – Feb24
- D6.2 Vacuum pipe Design (M24) – Sept 24;
- D6.3 Preliminary RI TDR (M24) – Sept24;
- D6.4 Preliminary DET TDR (M24) – Sept24;
- D6.5 RI TDR (M40) – Feb26;
- D6.6 DMP and Data Access Policy (M46) – Jul26.



- This block must be created automatically as far as possible based on the huge amount of work between ETC-ISB and the PO
- In the preliminary-TDR phase the information will be quite incomplete and “poor”
  - It is due to the current maturity of the PBS and of the parameter tables



1	Introduction .....	19
2	Science Case Overview .....	21
3	Detector CDR Executive Summary .....	23
3.1	Main PBS upper systems design criteria summary	23
3.2	Overview of the main PBS systems, subsystems and their functional layouts and characteristics	23
3.3	Integration and installation requirements	23
3.4	Main elements (cost driver or technology challenges) functional and interfaces requirements, definitions	23
3.5	Results of R&D activities	23
3.5.1	Expected Results .....	23
3.5.2	Characterisation Methodology .....	23
3.5.3	Experimental Results obtained and TRL Evolution .....	23
3.5.4	Expected Impact (R&D by RSSd activity) .....	23
4	PBS element specifications and applied standards .....	25
4.1	Introduction	25
4.2	PBS elements specifications	25
4.3	PBS elements services and maintenance	25
4.4	PBS elements safety needs	25
4.5	Technical risk analysis of the PBS element	25
5	Detector Risk Analysis .....	27
6	Sustainability and Environment .....	29
7	costs .....	31
	Image credits .....	13 32

Strategy for D6.4 is to deliver the document sometime in summer 2025...

- A bit concern about the quality of this document — will become public
- Can we consider a delay in line with the one we foresee for the CERN Vacuum Design ?
- Can we adopt something like in D6.1 and produce an updated document before end ET-PP ?
- I will need a 1 page document describing the characteristics of the document you plan to deliver

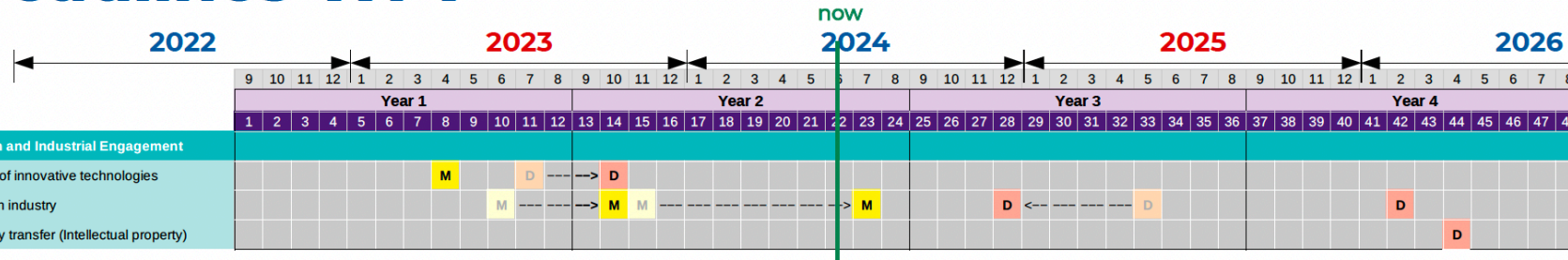
No action needed at this point on D6.6 I believe

# WP7

No concerns ?



## Deadlines WP7



## Milestones

M7.1	Analysis of promotion strategies accomplished	WP7	M8	Report	✓
M7.2	Engagement plan produced	WP7	M10	Report	✓
M7.3	Analysis of balanced industrial return strategies accomplished		M15	Report	

We have most of the material ready

## Deliverables

D7.1	Innovation plan	WP7	IFAE	R	PU	M11	✓
D7.2	Report on industry engagement plan execution	WP7	NIKHEF	R	PU	M42	
D7.3	Model for pursuing in ET a balanced industrial return	WP7	INFN	R	PU	M33	
D7.4	Report on TT and Intellectual property management in ET	WP7	INFN	R	PU	M44	

We aim at producing this report earlier than anticipated (M26)

We need a definite statement on M7.3 in terms of time for delivering this document

- Will also need a 1 page document justifying the delay



### ET-PP WP8 Computing and Data models

ET-PP

WP8 milestones

Workshops

WPs

Due date

	Workshops	WPs	Due date	
M8.1	Workflows Requirements collection and constraints: computing and data		Sep 2023	Oct 2023
M8.2	Computing Infrastructures availability for ET workflows, characteristics	WP9	Aug 2024	July 2024
M8.3	On site infrastructure, computing and data model	WP6	Aug 2025	
M8.4	Low latency and offline workflows and computing model	WP6	Dec 2025	
M8.5	Data management, access, policy and implementation	WP2, WP6	July 2026	

WP8 Documents

Deliverables

Lead

Due date

	Deliverables	Lead	Due date	
D8.1	Computing and Data Requirements	UniGe	Feb 2024	Feb 2024
D8.2	Computing and Data Model	UniGe	Feb 2026	
D8.3	Data Access Implementation Guidelines	IFAE	July 2026	

M9.1 new version coming by end of June — due by October 2024

Proposed delays of D9.1 and D9.2 — until February 2025 but in time for RP2

Any word about D9.3 ?

- I will need 1 page document justifying all changes

	Deliverable	Lead participant	Type	Delivery date (months)
D9.1.	ET Sustainable Development of Implementation Strategy	CNRS	Report	18 - 29/02/2024
D9.2.	ET Environmental impact assessment and mitigation strategy	INFN	Report	24 - 31/08/2024
D9.3	ET CO2 footprint ET assessment and mitigation strategy	EGO	Report	36 -31/08/2025

	Milestone	Delivered	Status	Note
M9.1	Preliminary Sustainability Plan (PSP)	October 2023	Under revision	June 2024 - new version for internal review October 2024 - Delivery to EC
M9.2	ET sustainability workshop	November 2023	Writing report	Anticipated respect to timing (feb 2024) All the material already available



# WP10

No concerns ?



## WP 10: Deliverables and Milestones

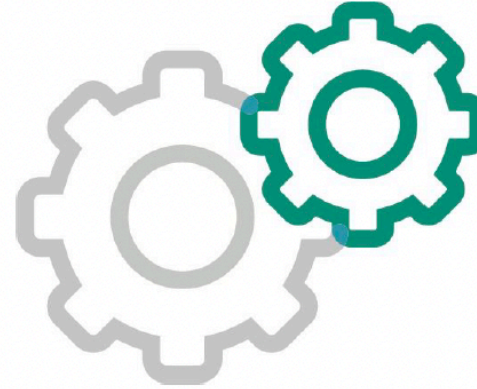
### DONE:

#### **D10.1 (University of Warsaw)**

Initiate strategic media and communications plan (report)

#### **M10.1 (University of Warsaw)**

Appointing comm/outreach officer



### NEXT:

**D10.2 (EGO) 24M:** Launch consortium website and social media accounts (V. Napolano, Y. Hoika, S. Rieger, Ch. North..)

**D10.3 (Nikhef) 24M:** Formulate strategic media and communications plan (Martine, Susanne, Yuliya, Vincenzo, Pepe)

**D10.4 (IFAE) 36M:** Complete bank of graphics and multimedia resources

**D10.5 (UKRI) 44M:** Launch ECR mentorship and training programme

**M21 (EGO) 24M:** ET Consortium website and social media launched

**M22 (UW) 44M:** Mentorship and Training programme established

# ET-PP burning items

- **ET-PP Data Management Plan (DMP)**

- EC officer expected a rather developed ET-PP DMP — well beyond a document indicating ET-PP delivers documents —> reviewed by EC DMP officers.
- **Task force was put place** involving all WPs to make an EC compliant DMP.
- New document sent in May 2024 — EC officer **finally accepted the new ET-PP DMP**

- **Site Characterisation**

- Missed one milestone and second one got postponed —> October 2024 review
- EC officers is expecting those documents to be in shape for R2 Review (March 2025)

- **Sustainability**

- Preliminary sustainability plan rejected — expecting much more developed document
- Energetic action is needed here to make sure ET delivers a credible sustainability plan
- **Everyone telling us this is very important**

# Deliverables — RP1 + early 2024

Deliverable	Tile	Action/By	Follow up RP1	Status	Next revision
D1.1	Dissemination and Exploitation (D&E) Plan	OK	Resubmitted	OK	End ET-PP
D1.2	Data Management Plan (DMP)	OK	Resubmitted	OK	End ET-PP
D2.1	Report providing options for legal entity	OK	Resubmitted	OK	End ET-PP
D2.2	Minutes of meetings with EC and involved ministries	OK	OK	OK	End ET-PP
D4.1	Scan of legal procedures, permitting and land acquisitions	OK	OK	OK	End ET-PP
D7.1	Innovation plan	OK	OK	OK	End ET-PP
D10.1	Initiate strategic media and communications plan	OK	OK	OK	End ET-PP
D4.2	Updated socio-economic impact studies	30/11/2023	ETO asking a first draft by June	Mature draft by October 2024	
D9.1	ET Sustainable Development Implementation Strategy	29/02/2024	TBD	TBD	
D6.1	Refined Science Case	29/02/2024	ETC announced September 2024	September 2024	
D8.1	Computing and Data Requirements	29/02/2024	Submitted	Waiting for OK	



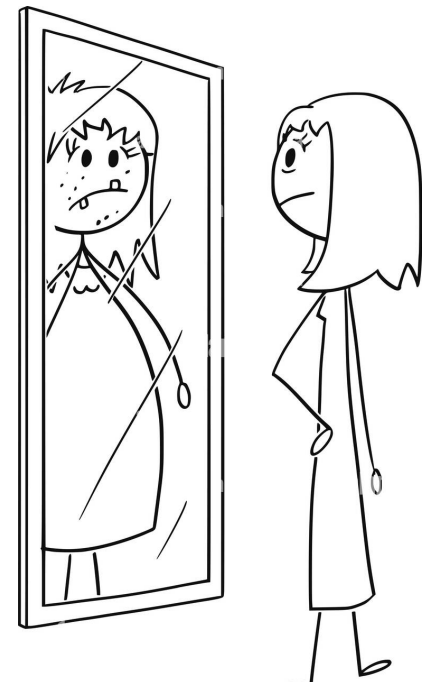
# Milestones - RP1

Milestone number	Name	WP	Means of verification	Original due date	EC review	Action Item
2	Document detailing the site-specific characteristics that impact ET sensitivity and its duty cycle.	WP4	Report	30/11/22	<b>Not achieved</b>	Move to R2 period and report in October
9	Analysis of promotion strategies accomplished	WP7	Report.	30/4/23	<b>Commented</b>	<b>Show updates on mini-review meeting on October 2024</b>
20	Appointment of Communications and Outreach Coordinator	WP10	Appointment contract	30/4/23	OK	None
3	Common methodology to estimate impact of site characteristics on ET sensitivity and operation and, if required, a scheme to compensate it.	WP4	Report	30/6/23	<b>Delayed</b>	Move to R2 period and report in October
10	Engagement plan produced	WP7	Report.	30/6/23	<b>Commented</b>	<b>Show updates on mini-review meeting on October 2024</b>
8	ET Collaboration in place	WP6	ET Symposium	31/7/23	OK	None
12	Workflows Requirements collection and constraints: computing and data	WP8	Workshop (+D8.1)	31/7/23	<b>Commented</b>	<b>Show updates on mini-review meeting on October 2024</b>
17	Preliminary sustainability plan	WP9	Report.	31/7/23	<b>Not achieved</b>	<b>Revision by October 2024</b>
4	The recruitment of the Project Office team is completed.	WP5	Report	30/11/2023	OK	Done
11	Analysis of balanced industrial return strategies accomplished	WP7	Report	30/11/2023	<b>Pending</b>	<b>Pending</b>
18	ET Sustainability Workshop	WP9	Workshop+ Report	29/02/2024	OK	Done



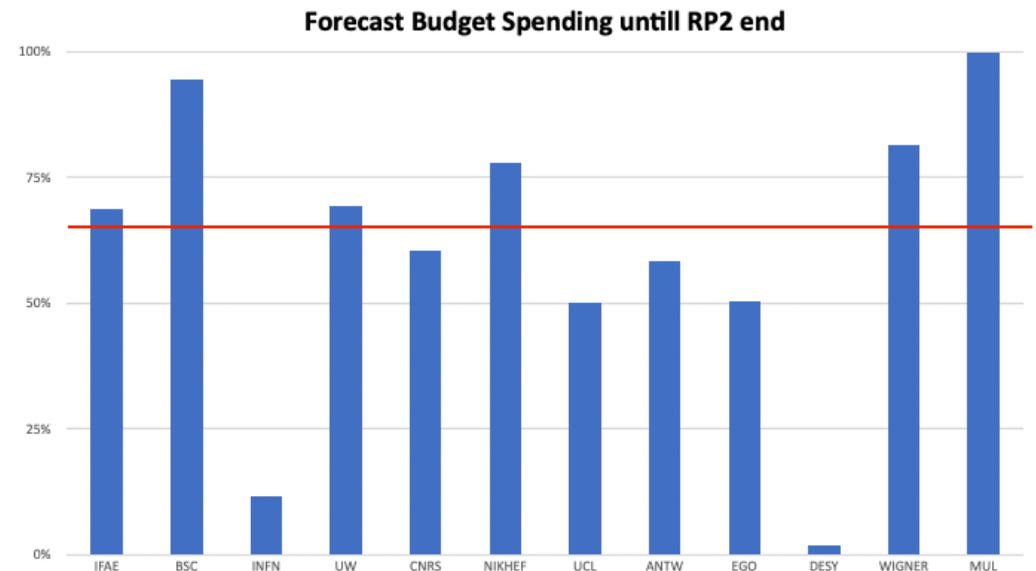
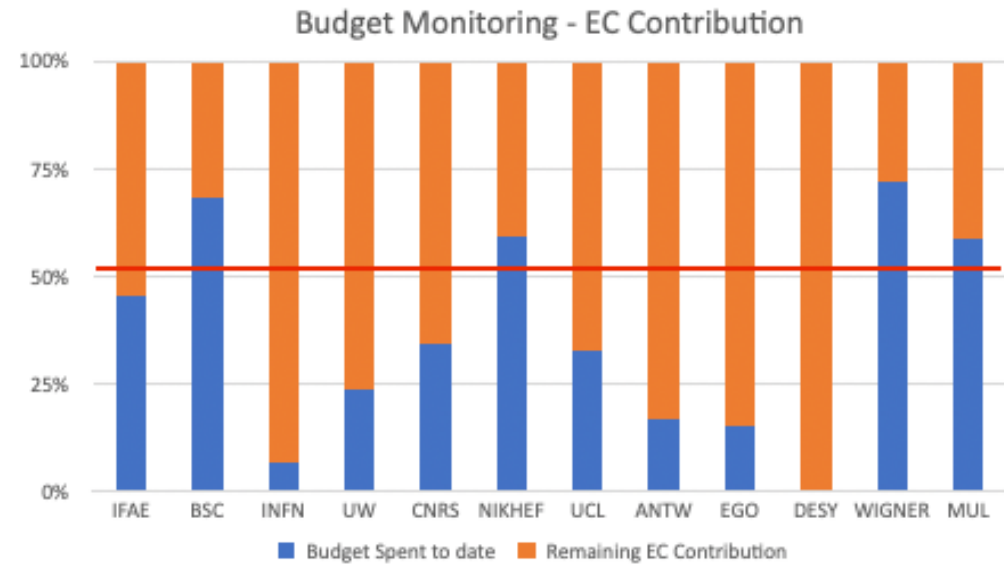
# Goals for this meeting

- We had an intense (almost) 2 years of the ET-PP project
  - With significant delays we tried to meet the requirements for 2023
  - RP1 (year 1) EC review of ET-PP was a wake-up call for giving ET-PP documents the required importance
  - EC put us in front of the mirror
    - > Originally we were too optimistic in the ET-PP planning in some aspects
    - > ET project is such that required more time and better organisation
  - Need to re-baseline some of the deliverables / milestones in consultation with EC
- 2024 is rather intense in all fronts
  - 8 Milestones and 15 Deliverables to be met
  - Should be regarded as the year for ETO - Project Office/Eng. Dept. consolidation
  - The year for producing preliminary documents on for RI and ET-Detector tech. Designs
- We have two F2F days to discuss how we will redefine the ET-PP timelines and the scope of the documents and how we will communicate it with the EC officer



# Budget execution

- We asked Beneficiaries to report on their ET-PP budget execution by now M22 and by M30 (project has 48 months)
- Is this real ?
- We might need to define corrections to make sure the funding is executed — will follow it closely.
- Remember M30 will come with full financial report for EC review



*Red line would correspond to a flat spending profile...*

