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SUPPORT

Preparatory phase of new ESFRI research infrastructure projects

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

# ET-PP news and updates

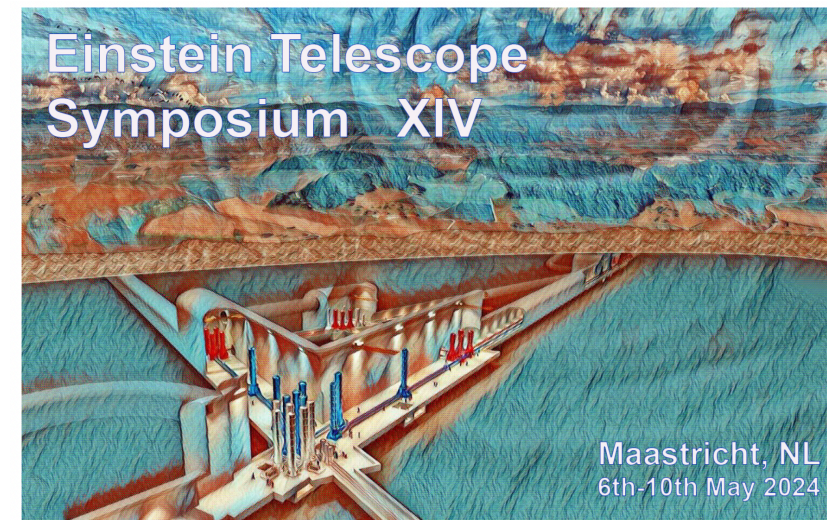
M. Martínez,

XIV ET symposium, Maastricht

10th May 2024



<https://etpp.ifae.es>



# Outline

- ET-PP Consortium
- ET-PP Work packages
- ET-PP Coordination activities
- Year 1 Review
  - Deliverables & Milestones
  - EC officers feedback
  - Lesson Learnt
- Notes on 2024 activities
- Final notes

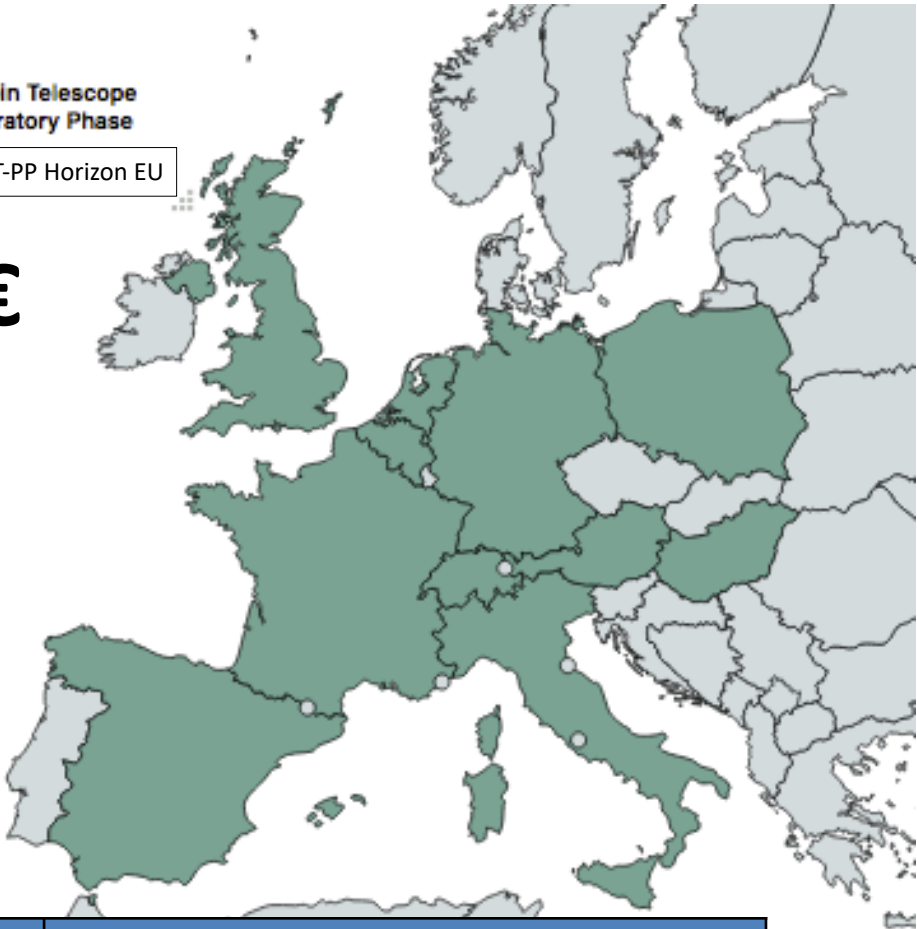


ET-PP is a project supported by the European Commission Framework Programme Horizon Europe Coordination and Support action under grant agreement 101079696


# INFRA-DEV ET-PP

3.45M€

12M€  
(total value)



COUNTRY	Third parties
GERMANY	RWTH (Aachen), AEI (MPI), LUH (Hannover)
THE NETHERLANDS	VU (AMSTERDAM), UM (MAASTRICHT)
SPAIN	ICCUB (Barcelona), UV (Valencia), UIB (Mallorca) CDTI (Madrid)
POLAND	NCBJ, CAMK, Cyfronet, IMPAN



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SEARCH FUNDING & TENDERS

HOW TO

Preparatory phase of new ES

TOPIC ID: HORIZON-INFRA-2021-DEV-

Grant

General information

Topic description

Destination

Conditions and documents

Partner search

Submission service

Topic related FAQ

Get support

Go back to search results

General information

Programme

Horizon Europe Fra

Call

Developing and co leadership (2021)

Type of action

HORIZON-CSA HO

Deadline model

single-stage

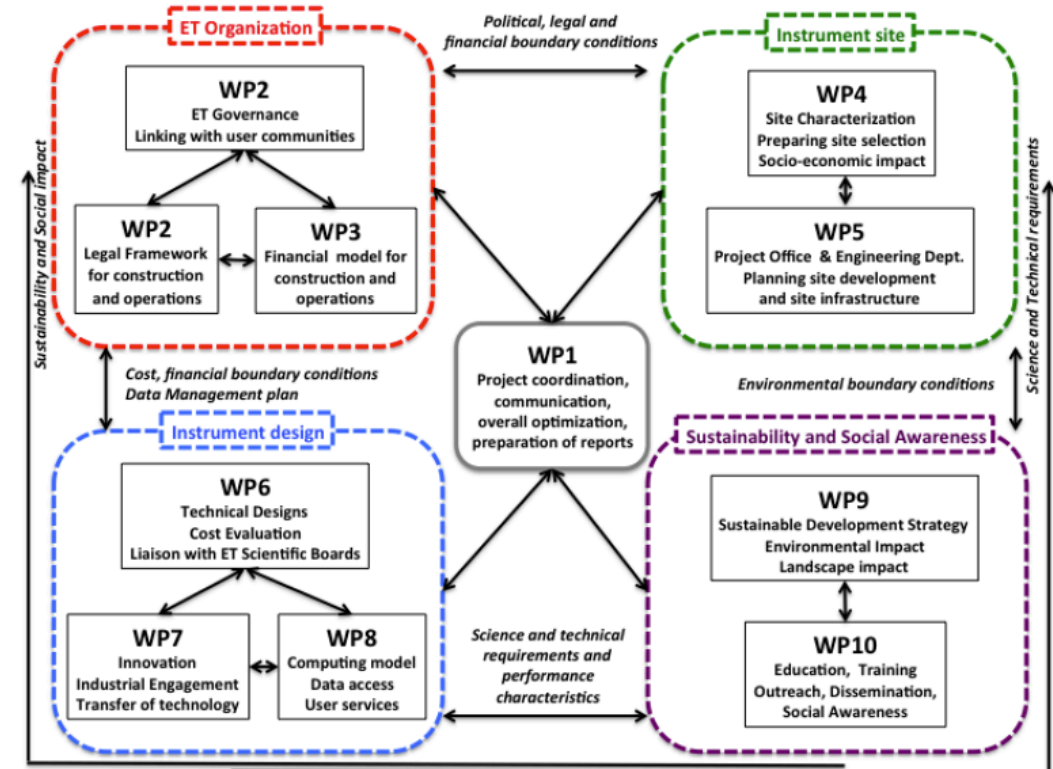
COUNTRY	Partners
AUSTRIA	U. LEOBEN
BELGIUM	U. ANTWERPEN
BELGIUM	U. LOUVAIN
EGO	EGO
FRANCE	CNRS
GERMANY	DESY
HUNGARY	WIGNER RCP
ITALY	INFN
THE NETHERLANDS	NIKHEF
POLAND	U. WARSAW
SPAIN	IFAE BSC-CNS (affiliated)
SWITZERLAND (associated partner)	U. GENEVA
UK (associated partner)	UKRI CARDIFF GLASGOW

We initiated a targeted process to collect additional third parties to strengthen particular needs with significant contributions  
—> KU LEUVEN new third party since July 2023  
  
—> We plan for a revisited Grant Agreement in 2024



# Work Packages (WPs)

- WP1 Coordination and Management
- WP2 Organization, Governance and Legal Aspects
- WP3 Financial Architecture
- WP4 Site Preparation
- WP5 Project Office / Engineering Dept.
- WP6 Technical Design
- WP7 Transfer of Technology
- WP8 Computing and Data Access
- WP9 Sustainable Development Strategy
- WP10 Education, Outreach and Citizen Engagement





# ET-PP web

<https://etpp.ifae.es>

## ET-PP News

### XII Einstein Telescope Symposium

The XII symposium of the Einstein Telescope (ET) will be held on the 15th and 16th of June. The ET scientific community will meet to discuss the formal establishment of the

- WP 1: Management and Coordination
- WP 2: Organization, Governance and Legal Aspects
- WP 3: Financial Architecture
- WP 4: Site Preparation
- WP 5: Project Office & Engineering Department
- WP 6: Technical Design
- WP 7: Innovation and Industrial Engagement
- WP 8: Computing and Data Access

## ET-PP

### Preparatory Phase for the Einstein Telescope Gravitational Wave Observatory

Einstein Telescope will be the European Third-Generation Gravitational Wave Observatory.



Mario Martínez  
Institut de Física d'Altes Energies (IFAE)



Fernando Ferroni  
Istituto Nazionale Di Fisica Nucleare (INFN)



Justin O'Byrne  
United Kingdom Research And Innovation (UKRI)



Miriam E.H. Roelofs  
Nikhef



Dorota Rosinska  
Uniwersytet Warszawski (UW)



Attilio Sequi  
Istituto Nazionale Di Fisica Nucleare (INFN)



Domenico D'Urso  
University of Sassari & INFN Laboratori Nazionali del Sud



Massimo Carpinelli  
European Gravitational Observatory (EGO)



Wim Walk  
Nikhef



Christian Olivetto  
Université Paris-Saclay



Patrick Werneke  
Nikhef



Alessandro Variola  
Istituto Nazionale Di Fisica Nucleare (INFN)



Harald Lück  
Albert Einstein Institut & Institut für Gravitationsphysik der Leibniz Universität Hannover



Paolo Chiggiato  
European Organization for Nuclear Research (CERN)



Michele Punturo  
Istituto Nazionale Di Fisica Nucleare (INFN)



Mauro Morandin  
Istituto Nazionale Di Fisica Nucleare (INFN)



Rob van der Meer  
Nikhef



Nadia Tonello  
Barcelona Supercomputing Center (BSC)



Achim Stahl  
Deutsches Elektronen-Synchrotron (DESY)



Thomas Berghoefer  
Deutsches Elektronen-Synchrotron (DESY)



Chiara Adami



Maria Antonietti



Nicolas Arnaud



Vincenzo Barone



Robert Callan

## WP 5: Project Office and Engineering Department

Work package led by CNRS

### Objectives

**WP5 - Project Office and Engineering Department** [led by CNRS]- has the mission to establish the ET RI Project Office and the corresponding Engineering Department. The role of this WP is to set-up a project management environment for the ET construction project.

This environment will be supported by consultative and executive bodies equipped with means to monitor, control and report on the technical design, the engineering, the technical specifications, the risks, the budget and the schedule.

These activities are project-wide and make use of methodologies and tools which are the same across the whole project.

R. Flaminio (CNRS)

### Deliverables

- D5.1 Structure
- D5.2 Functional

## Advancing in the hiring processes within ET-PP

- WP5 - Project Office / Engineering Department (see slide)
- WP10 - Communication Officers [2]
- WP7 - KTT Officer
- WP8 - Computing Scientists [2]
- WP1 - Project Manager

### ET-PP Open positions

#### Open Position: Science Communication Officer at IFAE

The Institut de Física d'Altes Energies (IFAE) is looking for a science communication officer. The main responsibilities of this person will be related to the management of the communication aspects of the European project Einstein Telescope Preparatory Phase. These activities will include: internal and external communications, outreach activities and STEM education programme.



#### Open Position: Senior IT/Computing Architect position at the Department of Astronomy and the Gravitational-Wave Science Center of the University of Geneva

The Department of Astronomy and the Gravitational-Wave Science Center (GWSC) at the University of Geneva is looking for a Senior Information Technology (IT) / Computing Architect ("Adjoint(e) Scientifique III") to support the activities of the Einstein Telescope (ET) project in the design of the computing model and infrastructure of the next-generation gravitational-wave observatory.

Oct 26, 2022

#### Open Position: System engineer for Project Support and Coordination at BSC

The Barcelona Supercomputing Center is offering a position for a system engineer who will become part of the Operations Department of the Center and participate in the activities of support and coordination

2022

### Event: ET-PP INFRA-DEV Kick-off Meeting

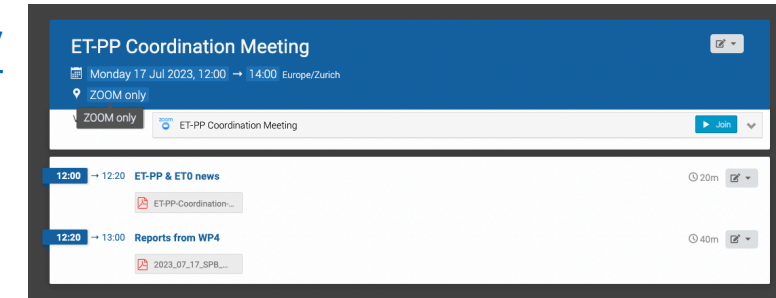
The ET-PP INFRA-DEV Kick-off Meeting will be held from 19th to 20th July 2022 in Barcelona, hosted by the Institut de Física d'Altes Energies (IFAE). The venue is the Hotel Campus Barcelona, located on the UAB campus in Bellaterra, 25 km north of the Barcelona city centre.

Jul 19, 2022 – Jul 20, 2022 · Campus UAB Barcelona

Indico

# Actions of coordination & reports

- We are running biweekly coordinating meetings since 2022, where WPs report their progress (typically 2 WPs reporting in each meeting)
- All the working groups run biweekly meetings for their own activities
- ET-PP WPs are intimately connected to ETO and ETC activities and boards (same chairs and coordinators)
- We had already three annual two-days ET-PP all-hands meetings
  - July 2022 - before ET-PP execution started
  - June 2023 — two months before first year of execution ended
  - December 2023 — few days before the EC 1Y review (only chairs)  
—> **Meeting with EC officials on December 14th 2023**  
(including milestones, deliverables, budget execution, in-kinds)
- **Next meeting 17 - 18 June @ BCN**
- **ETO meeting 19 June @ BCN**



<https://indico.ifae.es/event/1393/>  
<https://indico.ifae.es/event/1671/>  
<https://indico.ifae.es/event/1824/>

# Notes on Y1 review process

- 12 months (end August 2023) review was recognised by EC officer as too early but served well us to understand and bring to surface that the evolution/dynamics of ET-PP WPs needs to change.
- **The timeline for Deliverables and Milestones were over-optimistic at the time of ET-PP submission** and realities translated into serious nominal delays
  - Forced us to postpone the Y1 review until mid December 2023
  - EC officers accepted delays on Y1 deliverables / milestones until October 2023
  - Despite of it some of the documents arrived last minute & we skipped one Milestone
- **Y1 review could go better** (see also next slides)
  - EC officer asked as for re-submission of some documents before formally closing the Y1 process
  - **We will have a special follow up session on early October 2024**
  - Some deliverables were missed —moved now already to next formal review taking place in 2025
- **And we are accumulating again delays** for those deliverables beyond Y1
  - It is urgent to re-build the deliverables / milestones timelines (and then do not move them)
  - Pending discussion with EC officer that should happen by end of June
- **ETO Directorate will communicate formally with EC officer a new ET-PP timeline** at a given point (soon)



# Deliverables

Deliverable	Title	Action/By	Follow up	Status
D1.1	Dissemination and Exploitation (D&E) Plan	OK	Resubmitted	OK
D1.2	Data Management Plan (DMP)	Revision	Resubmission	Ready by May 30th
D2.1	Report providing options for legal entity	OK	Resubmitted	OK
D2.2	Minutes of meetings with EC and involved ministries	OK	OK	OK
D4.1	Scan of legal procedures, permitting and land acquisitions	OK	OK	OK
D7.1	Innovation plan	OK	OK	OK
D10.1	Initiate strategic media and communications plan	OK	OK	OK
D4.2	Updated socio-economic impact studies	30/11/2023	Define new date	Delayed
D9.1	ET Sustainable Development Implementation Strategy	29/02/2024	Define new date	Delayed
D6.1	Refined Science Case	29/02/2024	Define new date	Delayed
D8.1	Computing and Data Requirements	29/02/2024	Submitted	Waiting for OK

# Milestones

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

# ET-PP burning items

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

- EC officer is expecting a rather developed ET-PP DMP — well beyond a document indicating ET-PP delivers documents —> reviewed by EC DMP officers.
- **Task force in place** involving all WPs to make an EC compliant DMP —> May 2024.

- **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**



# Looking into 2024 - PO/ED

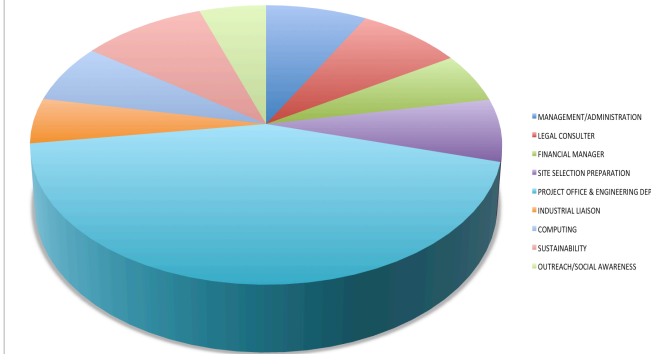
WP	N in WP	Name	LB	Type	Dissemination level	Due date (month)	Date	Status
5	D5.1	Structure and mandate of the Project Office	CNRS	R	PU	25	30/09/2024	
5	D5.2	Functionalities required from the tools in support of the project management	CNRS	R	PU	25	30/09/2024	
5	D5.3	Structure and mandate of the Engineering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



# What is coming in next months

WP	N in WP	Name	LB	Type	Dissemination level	Due date (month)	Date	Status
4	D4.2	Updated socio-economic impact studies	NIKHEF	Report	PU	15	30/11/2023	TBD
6	D6.1	Refined Science Case	INFN	Report	PU	18	29/02/2024	Sept 2024
8	D8.1	Computing and Data Requirements	IFAE-BSC	Report	PU	18	29/02/2024	OK
9	D9.1	ET Sustainable Development Implementation Strategy	EGO	Report	PU	18	29/02/2024	Sept 2024
4	D6.2	Vacuum pipe Design	INFN	Report	R	24	31/08/2024	
4	D6.3	Preliminary RI TDR	INFN	Report	R	24	31/08/2024	
4	D6.4	Preliminary DET TDR	INFN	Report	R	24	31/08/2024	
9	D9.2	ET Environmental impact assessment and mitigation strategy	EGO	Report	R	24	31/08/2024	
10	D10.2	Launch consortium website and social media accounts	UW	Report	R	24	31/08/2024	
10	D10.3	Formulate strategic media and communications plan	UW	Report	R	24	31/08/2024	
4	D4.3	Complete quantification of all the aspects impacting the ET performance.	UW	Report	R	28	31/12/2024	

2024 will be a crucial year for ET-PP with the deliverable of very important documents

—> Strong coordination is needed —> we will discuss the new plans and timelines to be communicated with EC Officer

# Looking ahead (Milestones)

Milestone number	Name	WP	Lead beneficiary	Means of verification	Due date	Status
4	The recruitment of the Project Office team is completed.	WP5	CNRS	Report	30/11/2023	OK
5	All three documents (WP5-D5.1, D5.2 and D5.3) are published.	WP5	CNRS	Report.	30/9/2024	
6	The Engineering Department as a functional unit complete	WP10	NIKHEF	Report	30/11/2024	
7	The Project Office as a functional unit complete	WP4	INFN	Report	30/11/2024	
11	Analysis of balanced industrial return strategies accomplished	WP7	INFN	Report.	30/11/2023	Delayed
13	Computing Infrastructures availability for ET workflows, characteristics	WP8	IFAE-BSC	Workshop (+ D8.1)	31/08/2024	
18	ET Sustainability Workshop	WP9	EGO	Workshop + Report	02/09/2024	Done
21	ET Consortium website and social media launched	WP9	UW	Public Launch	31/08/2024	



# ET-PP F2F meeting (17th - 18th June @ BCN)



## ET-PP INFRA-DEV Annual Meeting

17-18 June 2024  
UPF Barcelona School of Management - Barcelona  
Europe/Madrid timezone

### Overview

Venue

Timetable

Registration

Registration Instructions

List of Participants

Accommodation

Travel Instructions

For Speakers

Remote Connections

Mario Martinez

✉ [etppbcn@ifae.es](mailto:etppbcn@ifae.es)



The [ET-PP INFRA-DEV](#) Annual Meeting will be held from 17th to 18th June 2024 in Barcelona, hosted by the Institut de Física d'Altes Energies (IFAE). The [venue](#) is the UPF (School of Management) Campus in Barcelona city centre.

The coordinators of the different ET-PP work packages, the coordinators of the ET boards, and the members of the ET governing boards and other ET key actors will meet to report on the status of the ET-PP activities and define the plan for the following months.

Sponsored by IFAE

### Goals of the meeting:

- \* Plan for 2024 Deliverables
- \* Understand the scope of documents
- \* Discuss ET project timeline — VERY IMPORTANT
- \* Dedicated discussions on topics in parallel sessions
  - \* Sustainability
  - \* EU Strategy and ET
  - \* Industrial Returns
  - \* .....

### Not an all-hands ET meeting

Targeted for

ET-PP WP coordinators

ETO management

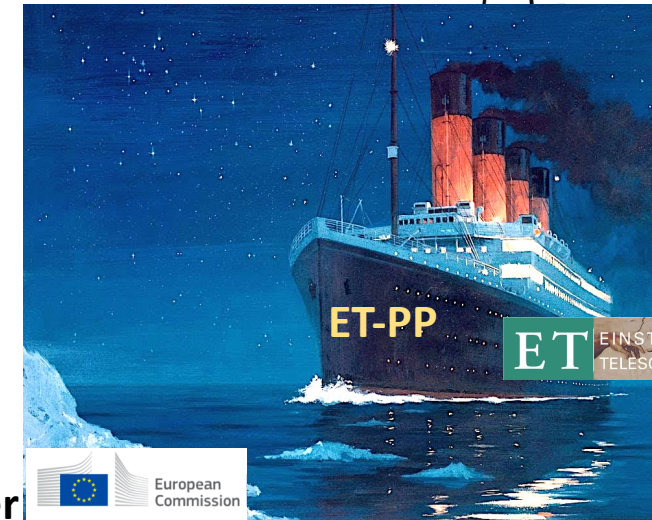
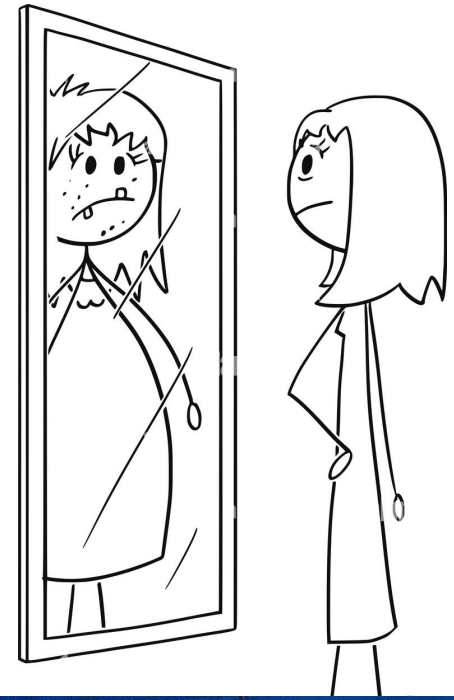
ET Collaboration Managements and few key liaison persons

<https://indico.ifae.es/event/1930/>

(Agenda being finalised)

# Final notes

- We had an intense 1.5 years of the ET-PP project
  - With significant delays (in some cases) we tried to meet the requirements for 2023
  - Y1 EC review of ET-PP is 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
    - > The complexity of the ET project is such that required more time and better organisation
  - We will need to re-baseline some of the deliverables and milestones in consultation with EC
- Since July 2022 kick-off ET-PP meeting the progresses in all the WPs are notable.
- ET-PP is contributing to the birth of a functional ETO
- 2024 is ather 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
- There is (somehow) the sense ET-PP documents (and providing then in time) are of limited importance given the money involved (3.5M€) —> This is a mistake —- EC is an important player  
ET-PP should be regarded as a successful project for the success of the ET - project





# ET will happen and will be full of light...a 3G church

But still in the building phase

Let's think in terms of ET-PP  
being one of the cranes...

.. a cheap tool placing very  
important pieces at the top





