

E-Infrastructure Board Workshop: Few words of introduction

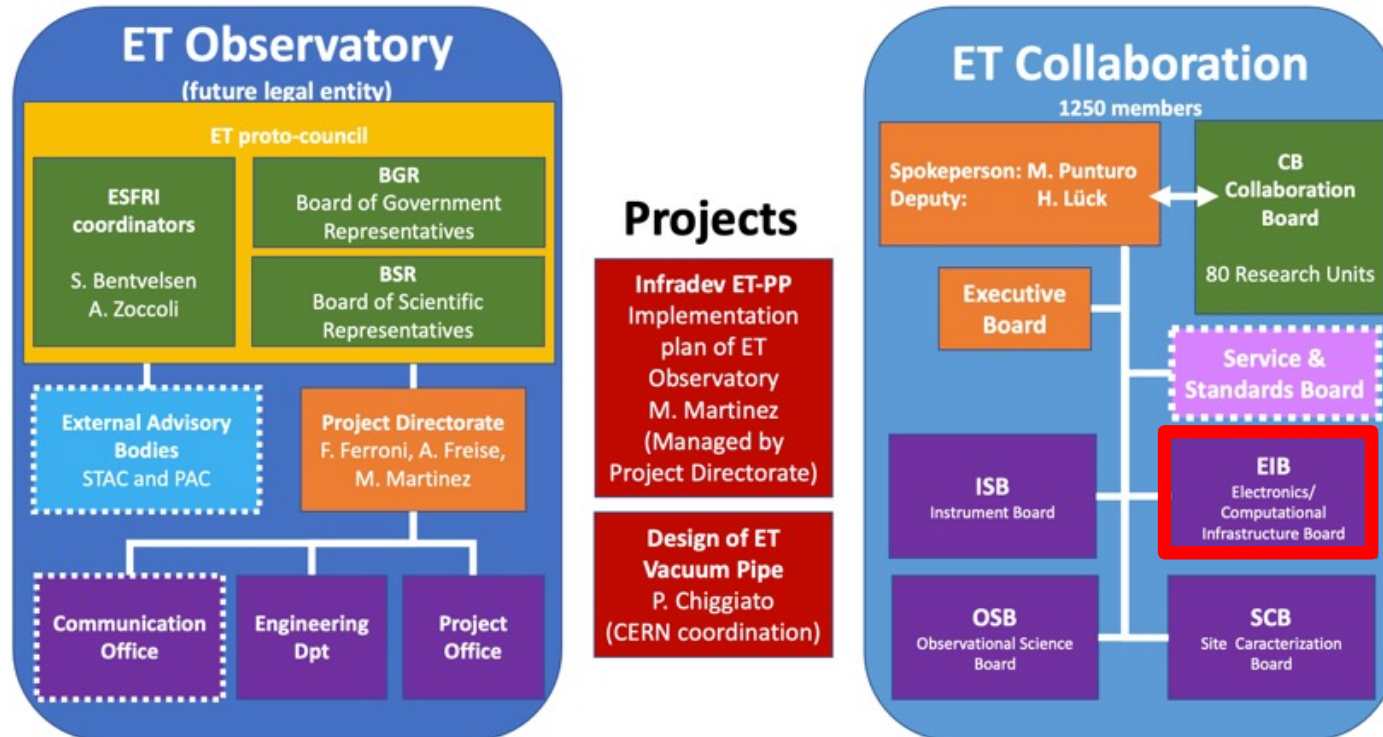
Einstein Telescope EIB Workshop

For the ET-EIB – patrice.verdier@in2p3.fr

Aachen – March 9th, 2023

Since the first EIB workshop (Nov. 2021 @ EGO) <https://indico.ego-gw.it/event/306>

- The ET collaboration has been officially formed
- The EU project « ET-Preparatory Phase » has been approved and launched



«...to design, create and operate an evolving, efficient and functional e-infrastructure environment at a reasonable cost for the collaboration. Initially the focus will be the development of a Computing Model for the ET »

- Prepare a plan of the studies and activities that need to be undertaken for the development of the ET computing.
- Propose a computing model and its updates to the collaboration.

Out of scope: actual science code, physics and engineering tools

EIB organization is in place:

EIB Chairs: Stefano Bagnasco (INFN), Patrice Verdier (IP2I Lyon - IN2P3)

ET-PP WP8 leaders: Achim Stahl (U. Aachen), Sergi Girona (BSC) + Nadia Tonello (BSC)

Division 1: Software, frameworks, and data challenge support
Andres Tanasijczuk (Université Catholique de Louvain)

Division 2: Services and Collaboration Support
Antonella Bozzi (EGO)

Division 3: Computing and data model, Resource Estimation
Gonzalo Merino (PIC)

Division 4: Multimessenger alerts infrastructure
Steven Schramm (Université de Genève)

TTG: Technology Tracking working Group
Sara Vallero (INFN Torino)

Liaison with OSB Div. 10: John Veitch (University of Glasgow)

Joint WP8+EIB weekly call for coordination

⇒ EIB wiki: <https://wiki.et-gw.eu/EIB/WebHome>

EIB all-hands meeting : every two weeks on Tuesday, 9:30 - 10:30:

<https://cern.zoom.us/j/66774994472?pwd=VExrNXJWUG02QUNHdUttSXFqMDNUUT09>

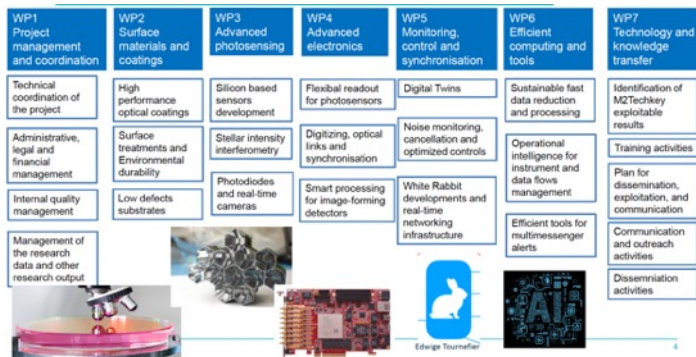
Mailing lists :

- All EIB Members: et-eib-all@lists.infn.it
- EIB chairs and Division chairs: et-eib-chairs@lists.infn.it
- Divisions: et-eib-div1@ego-gw.it, et-eib-div2@ego-gw.it, et-eib-div3@ego-gw.it, et-eib-div4@ego-gw.it

M2TECH : Technologies for Multimessengers Astrophysics

HORIZON-INFRA2022-TECH-01-01

R&D for the next generation of scientific instrumentation, tools and methods



At least 3 world class research infrastructures RIs:

CTAO and **MAGIC**, **ET** and **Virgo**, **KM3NeT**, **ELI**

- First step to structure R&D for ET
- Unfortunately, not successful in 2022
- Discussion in progress for a resubmission in 2024

ACME : Astrophysics Centre for Multimessenger studies in Europe

HORIZON-INFRA-2023-SERV-01-02 (March 2023)

With APPEC support and coordination:

To bring together the Astronomy and Astroparticle communities for better coordination of multi-messenger and multiwavelength observations, provision of observation time and expert support, improved access to archival data, improvement of alerts and alert management for transient events, training, cross-disciplinary sharing of data and citizen science.

ET is not taking data, but we would like to be part of the consortium and of the discussions

- **Our goal is to deliver an efficient computing & software infrastructure for ET users:**
 - EIB and ET-PP WP8 are starting working on the definition of the computing model
 - Provide a software framework allowing **traceability and reproducibility, efficient job submission and data access**
- **In the framework of preparing the ET TDR (next 3-4 years), project organization is being put in place by the Project Office: PBS, WBS**
- **Develop links and collaborations with astroparticle/HEP computing environment:**
 - Get closer to **existing computing expertise developed for LIGO-Virgo-Kagra within IGWN**
 - We would like to **contribute to ESCAPE**
 - Distributed computing network => **develop participations and links with European T1 CCs**
 - ET is asking to become a **CERN recognised experiment**
- **Have a fruitful workshop in Aachen !**