

EINSTEIN
TELESCOPE

ET-PP General Meeting, Barcelona 22-24 July 2025

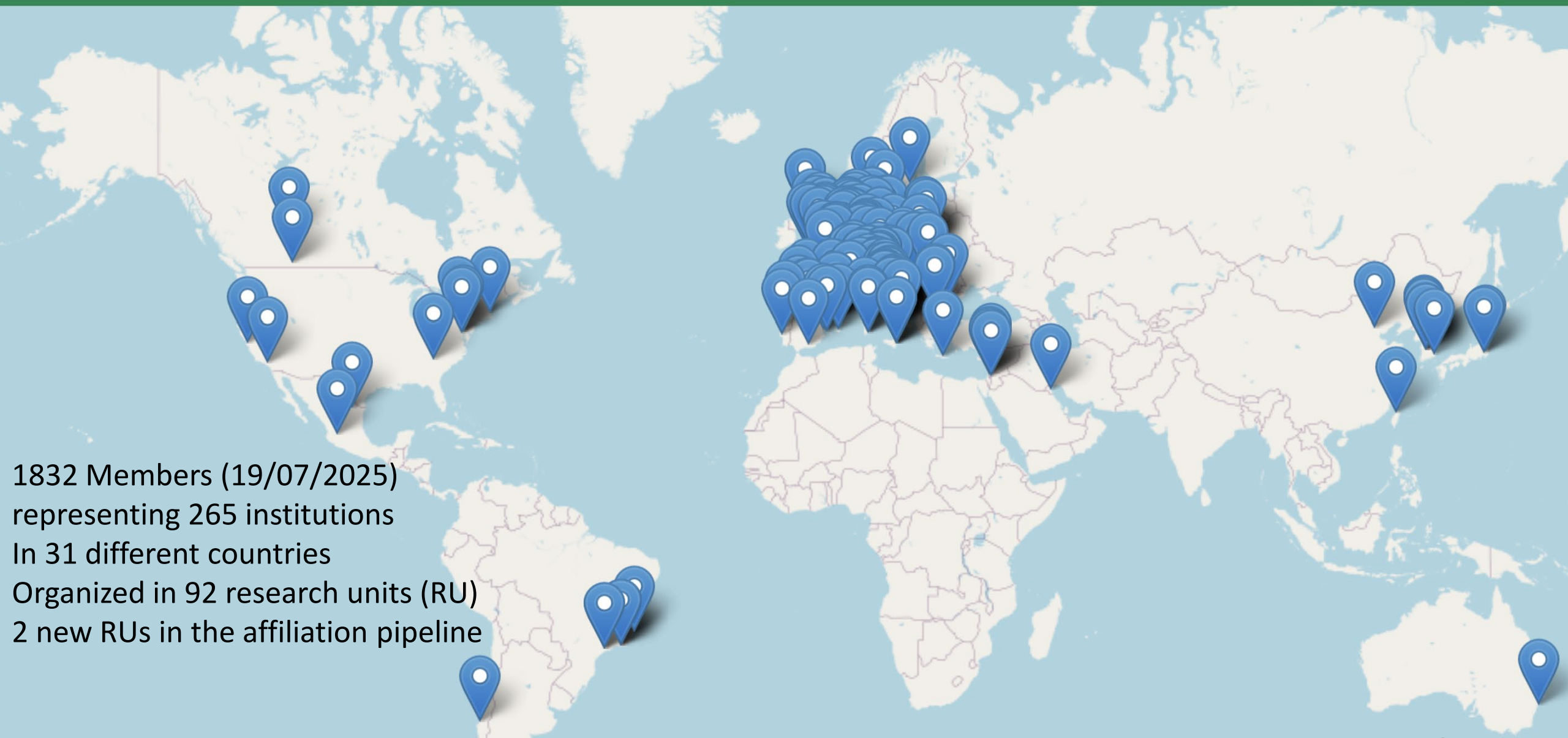
Einstein Telescope Collaboration

Michele Punturo

INFN-Perugia, spokesperson ET collaboration



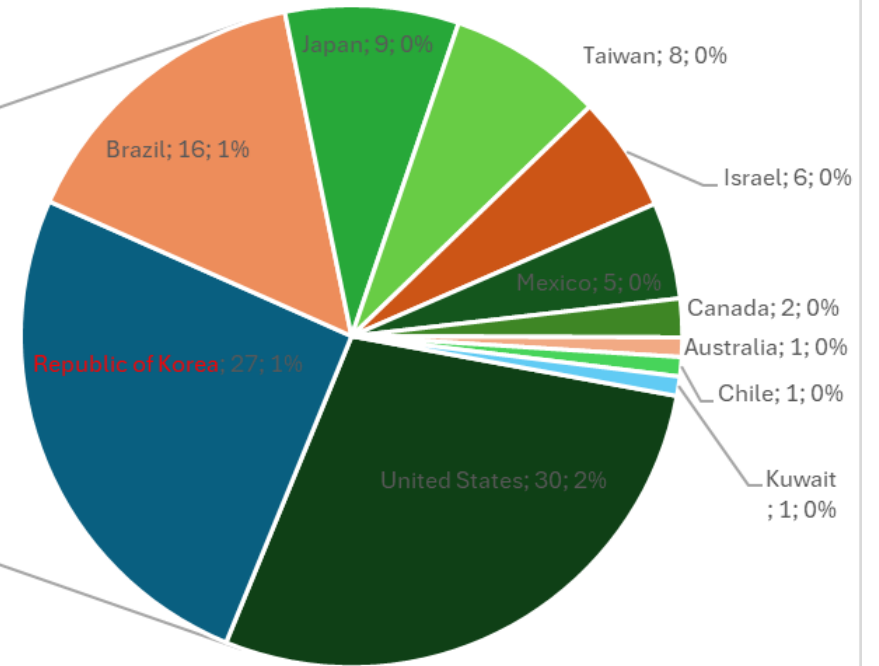
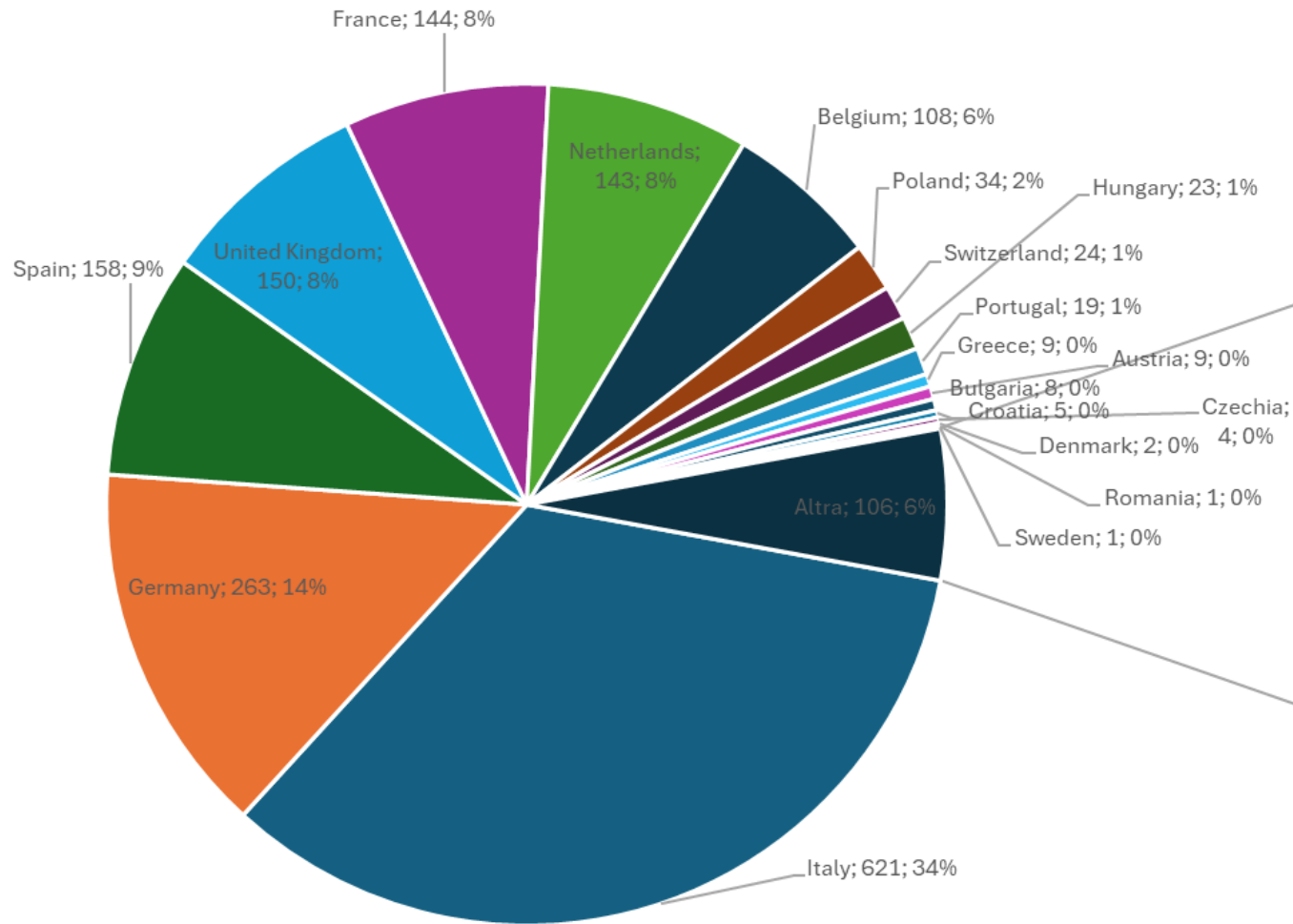
Map of the Institutions of the ET Collaboration



1832 Members (19/07/2025)
representing 265 institutions
In 31 different countries
Organized in 92 research units (RU)
2 new RUs in the affiliation pipeline

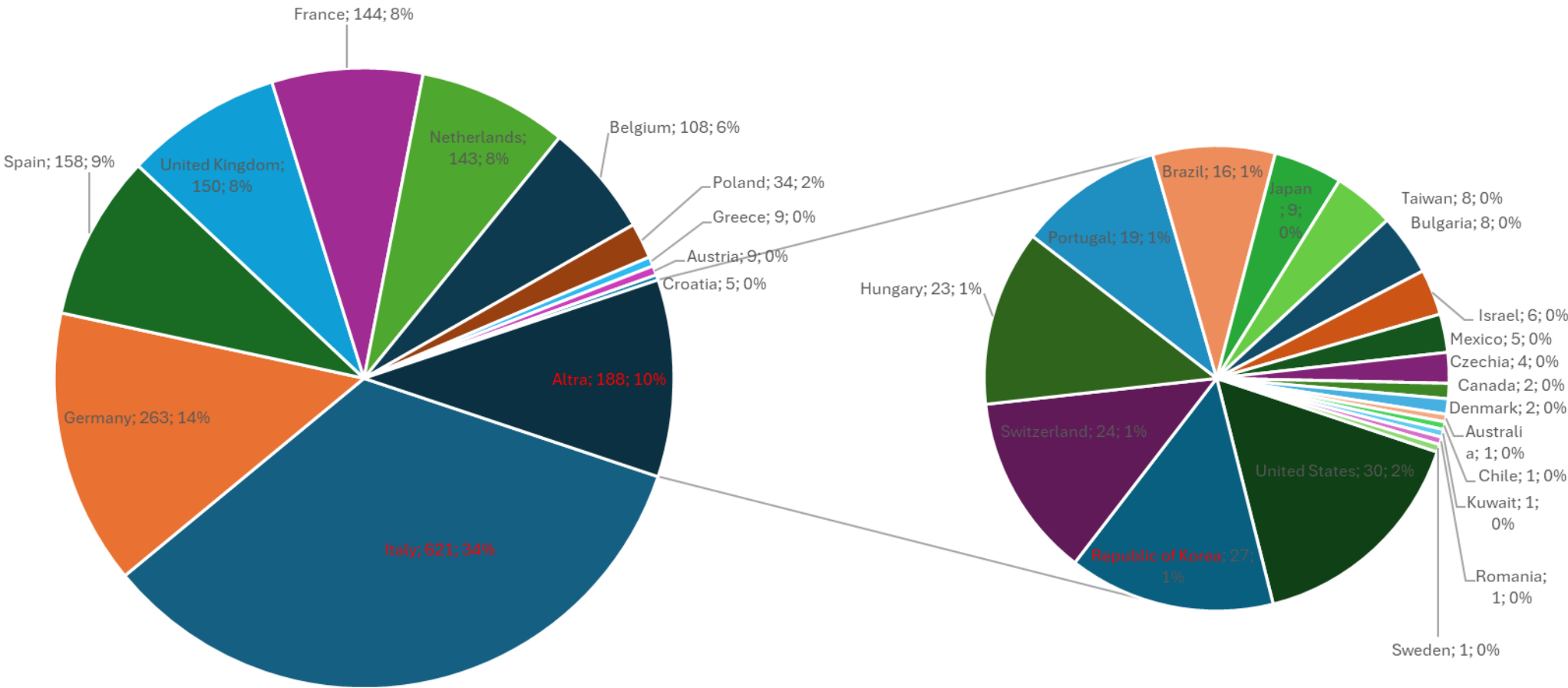
Statistics 1

Members per Country (Institution based)



Statistics 2

Members per Country (Institution based)

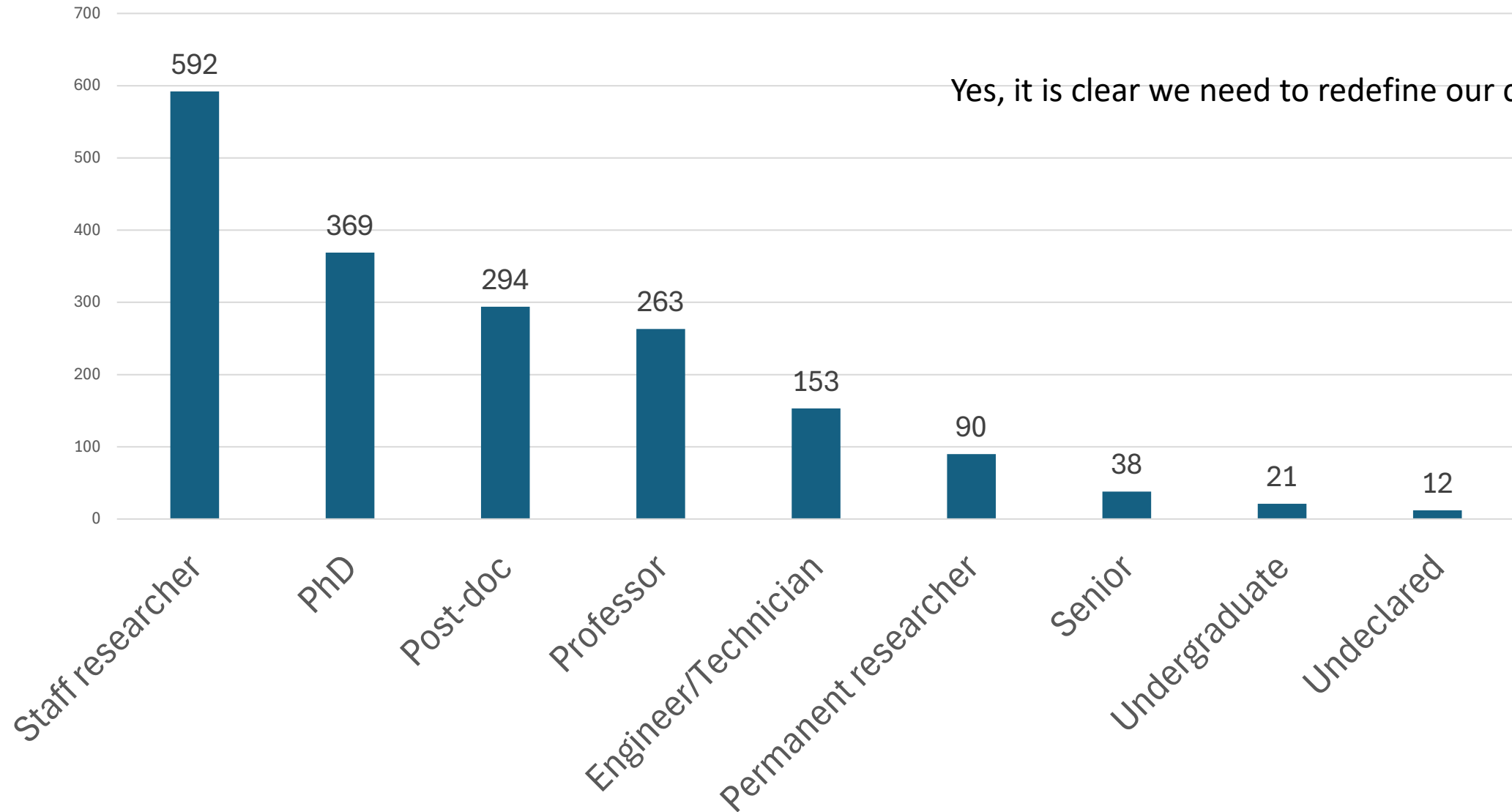


BGR

BGR

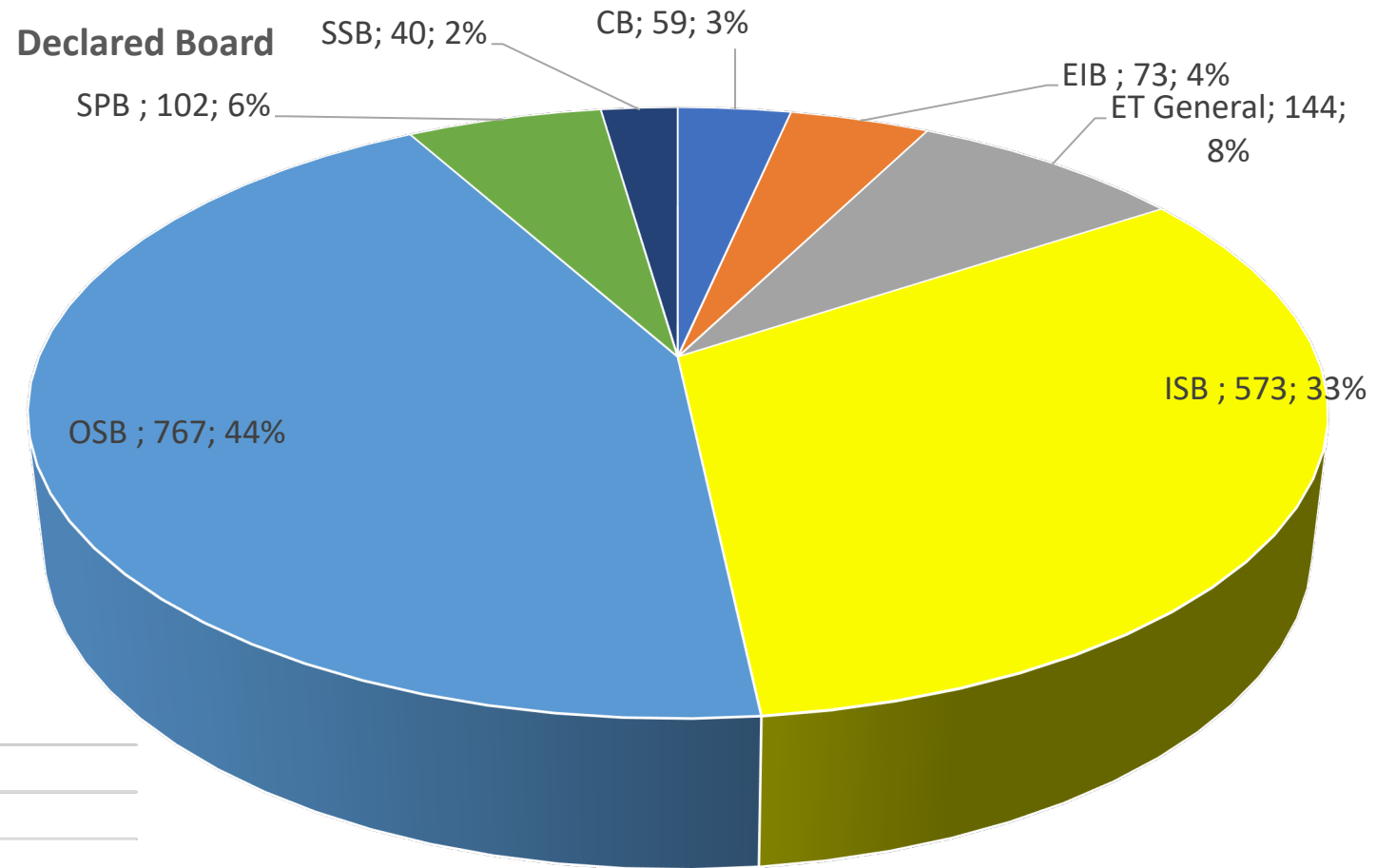
Statistics 3

Job qualification

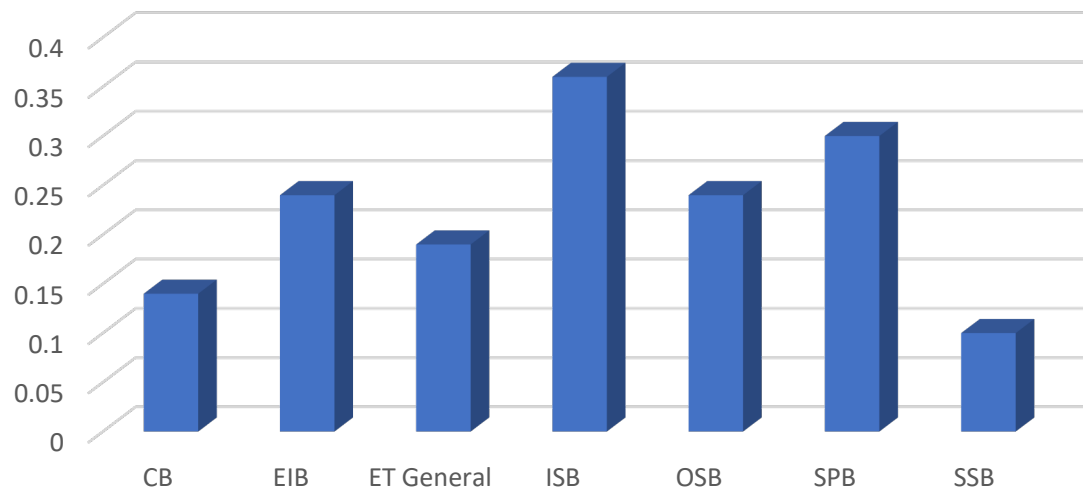


Yes, it is clear we need to redefine our categories

Statistics 3

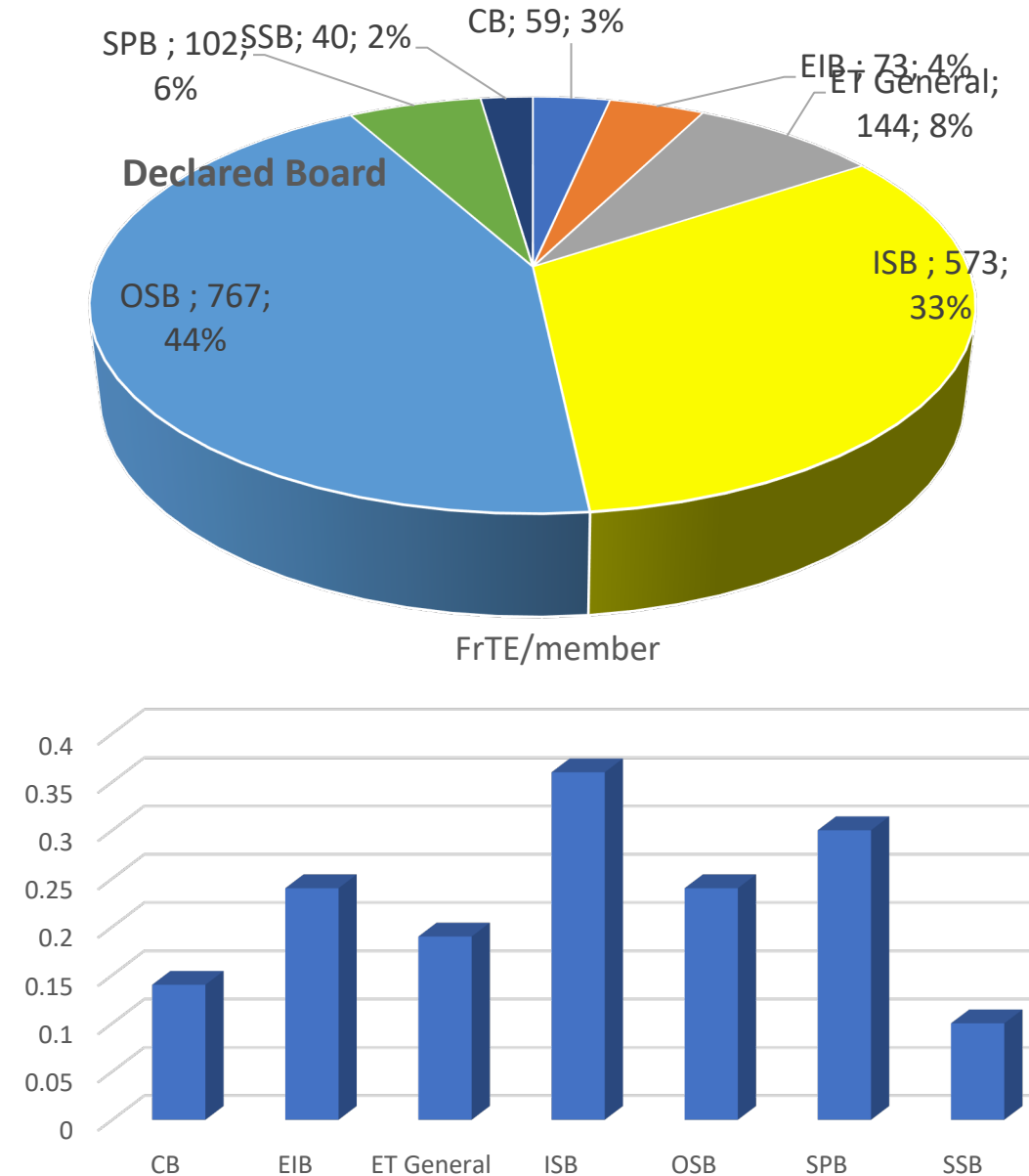


FrTE/member



Statistics 3

- After the inclusive phase of the collaboration, we are preparing the «selective» phase
- We need to have a clear map of the activities of the different RU members in order to:
 - Understand who is doing what
 - Match human resources and needs
 - Offer to newcomers a portfolio of uncovered or scarcely covered activities
- The Program Committee of the SSB started to create the framework
 - We are working on the definition of the path and a workshop with the Executive Board is expected in September



ETC activities 1

- The ET collaboration has been or is engaged in different activities
 - Since the last ET-PP general meeting (2024) the ET collaboration:
 - Produced the functional optical layout of ET in the two geometrical configurations
 - ET-0443A-24, ET-0695A-24
 - Produced the new ET reference sensitivity used by the Task Force
 - <https://wiki.et-gw.eu/ISB/Interferometer/ObservatoryDesignAndNoiseBudget/LatestSensitivity>
 - Contributed with massive expertise, human resources and computing resources

H.Lueck ETC status report at the XV ET symposium

Core team (24)

Name	Institution
Anna Green	Nikhef
Antonio Perreca	Trento Uni
Marco Vardaro	Nikhef
Nathan Holland	Nikhef
Leonardo Lucchesi	INFN Pisa
Antonino Chiummo	EGO
Francesca Spada	INFN Pisa
Paolo Ruggi	EGO
Julien Gargiulo	EGO
Henk Jan Bulten	Nikhef
Fulvio Ricci	Roma 1 Uni
Angelo Cruciani	INFN Roma 1
Jonathan Bratanata	Nikhef
Max Majoor	Nikhef
Mikhail Korobko	Hamburg Uni
Elena Licciardello	INFN-LNS
Romano Meijer	Nikhef
Ghada Mahmoud	APC
Benoit Tuybens	Nikhef
Fiodor Sorrentino	INFN
Ulyana Dupletsa	GSSI
Francesco Iacovelli	Geneve Uni
Patricia Lamas	Amberg Eng.
Tamara Bud	CERN

Advisors (23)

Name	Institution
Jerome Degallaix	LN2P3
Daniel Brown	Adelaide Uni
Giacomo Ciani	Trento University
Julia Casanueva	EGO
Sebastian Steinlechner	Maastricht University
Conor Mow-Lowry	Nikhef
Antonio Pasqualetti	EGO
Steffen Grohman	KIT
Ettore Majorana	Roma 1 University
Piero Rapagnani	Roma 1 University
Wissam Wahbeh	Roma 1 University
Maria Marsella	Roma 1 University
Patrick Werneke	Nikhef
John Osborne	CERN
Joseph Ickmans	EMR
Valeria Sequino	INFN
Andreas Freise	Nikhef
Riccardo de Salvo	n.a.
Marco Galimberti	EGO
Lucia Lilli	INFN Pisa
Archisman Ghosh	Gent University

ETC activities 2

- Under the coordination of the ISB chairs and ETO PO, has been produced an updated version of the PBS (Product Breakdown Structure)
 - 1640 elements, 27316 parameters declared
- But
 - 1096/1640 are without parameter file associated
 - 563/989 in level 6, 263/328 in level 5, 49/55 in level 4, 10/10 in level 3
 - 25659/27316 parameters haven't a numerical value associated
 - 1129 elements haven't a text description associated
- These numbers are highlighting a serious difficulty in the PBS process, probably caused by (if not due to a problem of reading of the files):
 - A low level of maturity of the design in almost all the subsystems
 - A low level of engagement of the ETC members and management in the PBS
- This is a key element to produce the “Preliminary Detector TDR” deliverable in ET-PP
 - A TOC for this deliverable has been agreed by Harald and Fiodor
 - The composition of a writing team has been asked to the ISB chairs

ETC activities 3

- Since the last ET-PP general meeting an impressive target has been achieved:
 - The ET Science Book (Blue Book)
 - ET-0036D-25, <https://apps.et-gw.eu/tds/ql/?c=17763>
 - 800+ pages describing all the ET science targets in both the geometries
 - Submitted to JCAP
 - Deliverable of WP6 ET-PP
- Now the OSB is discussing internally the targets of its next activities

ETC activities 4: Data Access Policy

- Within the ET collaboration we started to discuss the ET Data Access Policy
 - Questionnaire circulated within the CB
 - Presentation at the ET symposium
 - Presentation at the CE symposium
- Drafting of the TOC of the ET-PP deliverable
 - Discussed at the last EB meeting
 - Formation (still under way) of a Writing team composed by CB/EB members, open to ETO and CE members

Parallel sessions under ETC/WP6 co-coordination

- Preliminary TDR:
 - Tuesday 22/07: 12:00-13:30
 - Wednesday 23/07: 11:30-13:00
- Data Access Policy:
 - Wednesday 23/07: 09:00-10:30