

# Status of (proto)ExecBoard

26-05-2025

Massimo Carpinelli, EGO Director

# Recomm. of the Rev. Comm. (03/2024)

- Modify current Virgo/EGO Organization
- Setup a Virgo Lab
- Main government body of Virgo Lab is an Executive Board
- Increase Funding and Personnel of EGO
- ....

# Proto Exec Board

- Transition from Current Organization to new
- Put in place the VirgoLab Organization as proposed by the Implementation Committee Bureau after Council Approval
- Composition approved at the December Council:
- EGO Director (Massimo) serving as chair
- Virgo Spokesperson (Gianluca Gemme)
- Upgrade Coordinator (Alessio Rocchi)
- Commissioning Coordinator (Michal Was)
- Run Coordinator (Nicolas Aranud)
- Chair of Board of PI designated by VSC (Benoit Mours)
- Chair of Technical Committee, designate by ProtoEB (Marco Galimberti); last

friday

# Proto EB tasks

- I. Define the structure and the scope of the VirgoLab Technical Teams
- II. Define the scope and the boundaries of VirgoLab Projects
- III. Define the scope and the boundaries of VirgoLab and the Virgo Collaboration
- IV. Propose a vision for on-site/off-site presence of Executive Board members, Project coordinators and Technical Team Leaders
- V. Resource management

# Proto EB Activities

- Proto EB meets every other week
- First meeting January 8<sup>th</sup>
- Several discussions
- Definitely different views among the members of the ProtoEB



# Main Items to be discussed

- Modification of Virgo Bylaws (Done)
- VirgoLab membership (LOI see talk of Gianluca)
- VirgoLab projects (See Talk of Alessio)
- VirgoLab Technical Teams
- Resource Managment

# Resources Managment

- Patrice Verdier and Heinrich Heitmann have accepted to coordinate this extremely important effort of the VirgoLab
- The role and the charge of the Resource Coordinator has not been very well defined
- Different opinions in the ProtoEB (simple bookeping vs decision making)

# VirgoLab Projects

- A single, global, project: to make the detector work and deliver data
- Divided into different phases
  - Upgrade | Commissioning | Operations
  - Each managed by a different person
- Virgo Next per se is not a VirgoLab Project, but future developments can be included in the VirgoLab, depending on their level of maturity and compatibility with available resources



# VirgoLab Projects

- They coexist and are active at all time
  - At any given time, a single phase is dominant and manages the site / the detector
  - Their importance and the resources they use evolve over time
- Transition between dominant phases
  - Equipment, software, documentation are transferred to the new dominant phase
  - Precise criteria to trigger a transition to be defined at a later stage
    - Should be more concrete / realistic than the existing ones
    - A clear path to the final decision in case there are different opinions

# Technical Teams

- New concept: more complicated to define and design
- Technical teams vs. subsystems
- Technical teams match the organization of major labs – ex: electronics department. They help standardization
- The subsystems produce integrated hardware, using components designs provided by different technical teams
- Technical Team Coordinator in place since last Friday, Marco Galimberti, Coordinator of EGO Optics and Control Department

# Proposed Technical Teams

- **Project Management:** Expertise on project management, the overall system design and integration, including risk management and quality control, ensuring the coherence of all subsystems.
- **Sensing & Actuation:** Technical aspects of sensors and actuators used in the interferometer, including the associated electronics and cabling.
- **Optics & Light sources:** Technical aspects of optics, crystals, coatings, lasers and other light sources.
- **Controls & simulations:** Technical aspects of optical and mechanical plant simulation, controls of opto-mechanical plants, and the digital infrastructure or analog hardware implementing the controls.
- **Mechanics & Vacuum:** Technical aspects of vacuum chambers, suspension, optical benches and other large mechanical parts and their finite element simulation.
- **Infrastructure:** Virgo site infrastructure including building, power systems and environmental controls, and the mitigation of noises produced by this infrastructure.
- **Computing & software:** Computing infrastructure, data management, software development and operation, data visualization, and cybersecurity.

# Ongoing Discussions

- Relevant roles of the VirgoLab (Project manager, Commissioning coordinator, Running coordinator, Technical Team Chair etc) have to spent a relevant part of their working time at EGO or not
- Technical Teams vs SubSystem
- Very Different opinions in the Proto EB



# Conclusions

- No question there are different opinions in the collaboration about the VirgoLab
- The majority is in favor of the VirgoLab
- Many people willing to help in setting up the VirgoLab
- By July we have to present a coherent scheme (including different opinions if needed) for the approval by the EGO Council