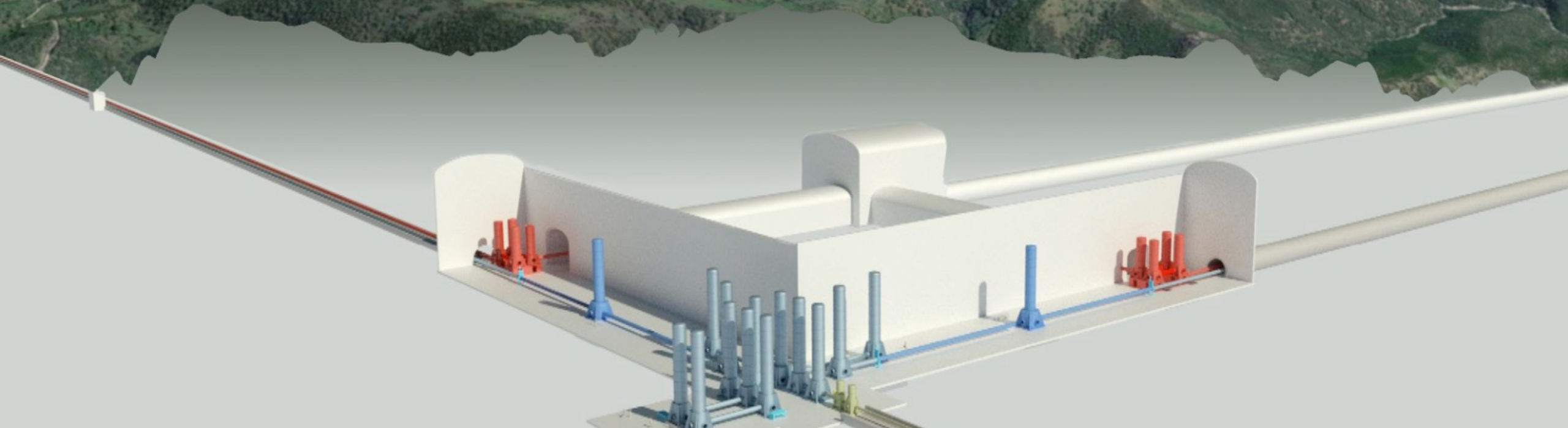


Discussion points



Possible discussion points



- ET Geometry
- Timing
- Bidbook content
- Estimation of ET performances considering Site characteristics within the ET Collaboration body already set
- Interaction with ETO and ET Collaboration

- ET geometry is still under discussion. As set by the ET Collaboration, Site Characterization have to take into account both possibilities

Timing

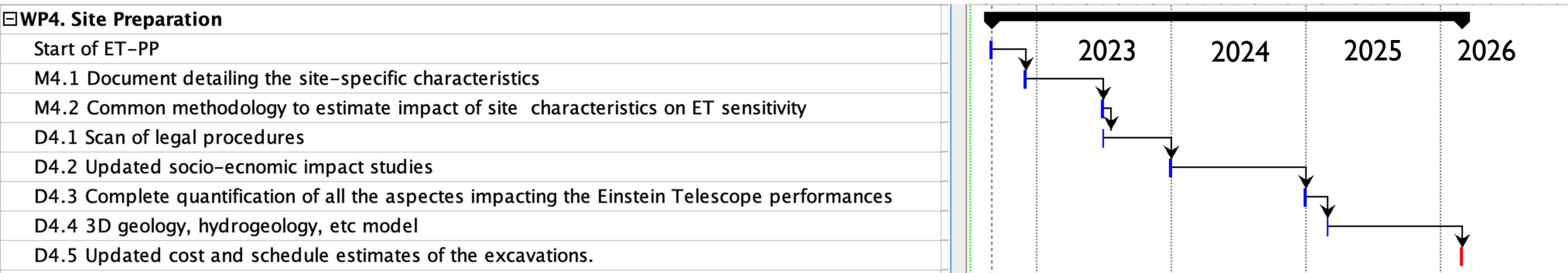


- Many timeline, which is the most realistic one?
- host team timeline should be in agreement with the one expected by the ET Collaboration/Organization

ET-PP – WP4 Timing



WP4 Gantt chart. Starting date assumed to be 1-Sept-2022.



- Long term measurement (at least two years, 3 broadband component)
 - ❑ 10th, 50th and 90th percentile of the acceleration proper spectral density (PSD) has to be assessed in the 10^{-2} - 20 Hz band. The PSD should be calculated following the McNamara & Buland method with a 1800 s window and 50% (900 s) overlap. Underground borehole installation should be always paired with a surface-level installation
 - ❑ Correlations between the seasonal variations of the microseismic peak and the storm surge or wave heights in the surrounding oceans.
 - ❑ Effects of regional and local seismicity. Catalogue of events, including the peak ground acceleration (PGA) or peak ground velocity (PGV).
 - ❑ effects of the teleseismic phase arrivals
 - ❑ ET Duty-cycle estimation for specific scientific target

Candidature Bidbook: measured noise



- Short-term measurement
 - an estimation of the surface wave dispersion curve
 - the characterization of seismic sources
 - study of local sources
- gravimetry & geodynamics studies
 - the local and instantaneous gravity variations
 - gravity anomalies in the area of interest
 - the strain, strain-rates and tilt variations measured on the Earth surface and eventually below the surface
- **magnetic noise**
 - at least 2 magnetic field probes with very high sensitivity in the ELF band (intrinsic noise levels as low as 10^{-4} nT/Hz^{1/2} at 1 Hz)

- A statistical study of the resilience of the detector to the disturbances by taking into account the ET design sensitivity for specific scientific targets.
 - ET sensitivity
 - ✓ site noise breakdown contributions
 - duty cycle over the time period under consideration

Estimation of ET performances considering Site characteristics within the ET Collaboration body

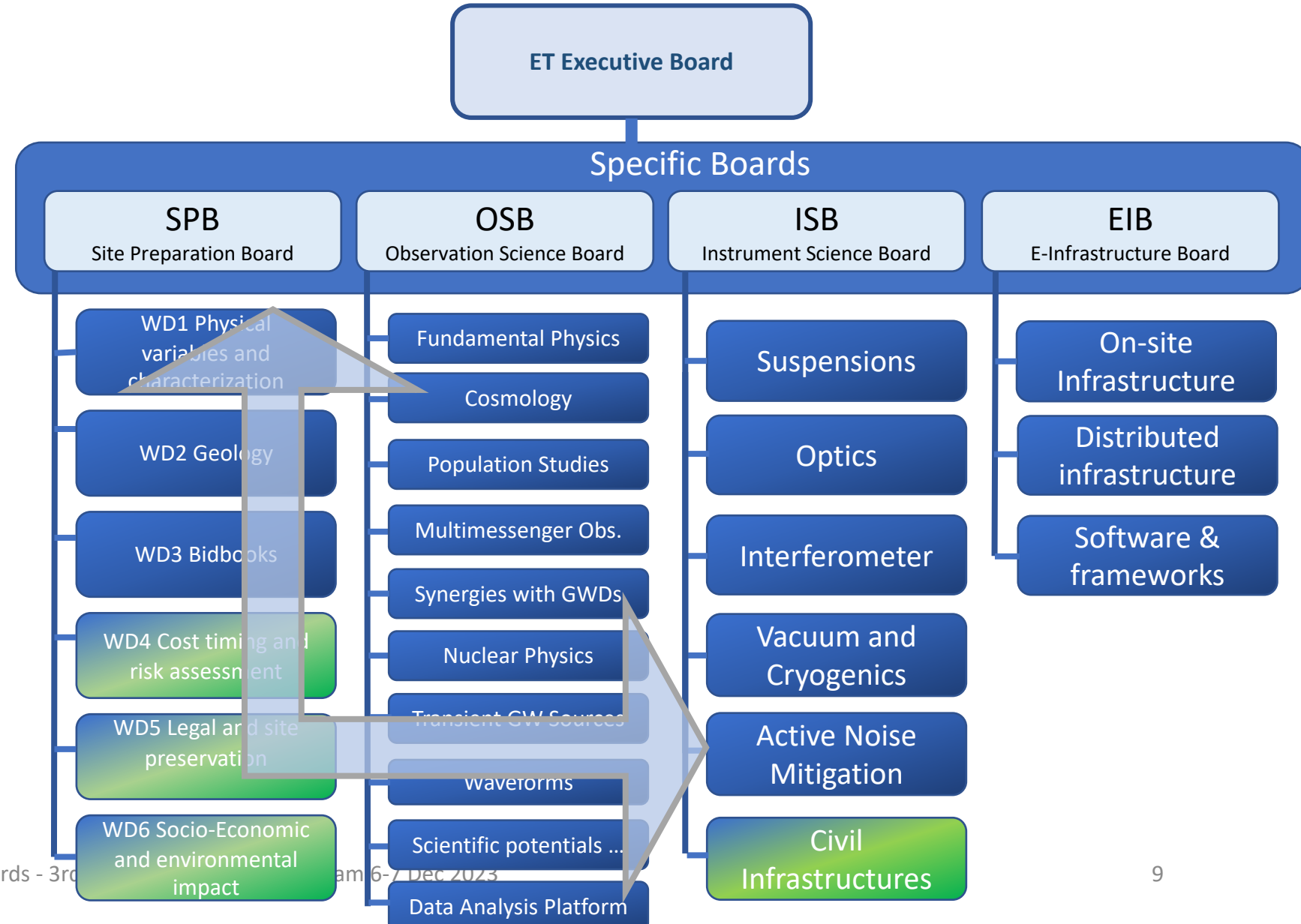


- **Site Characterization** coordinated in the framework of the **ET Collaboration**: Site Preparation Board (SPB).
- Strong interaction with the Active Noise Mitigation division in the Instrument Science Board (ISB).

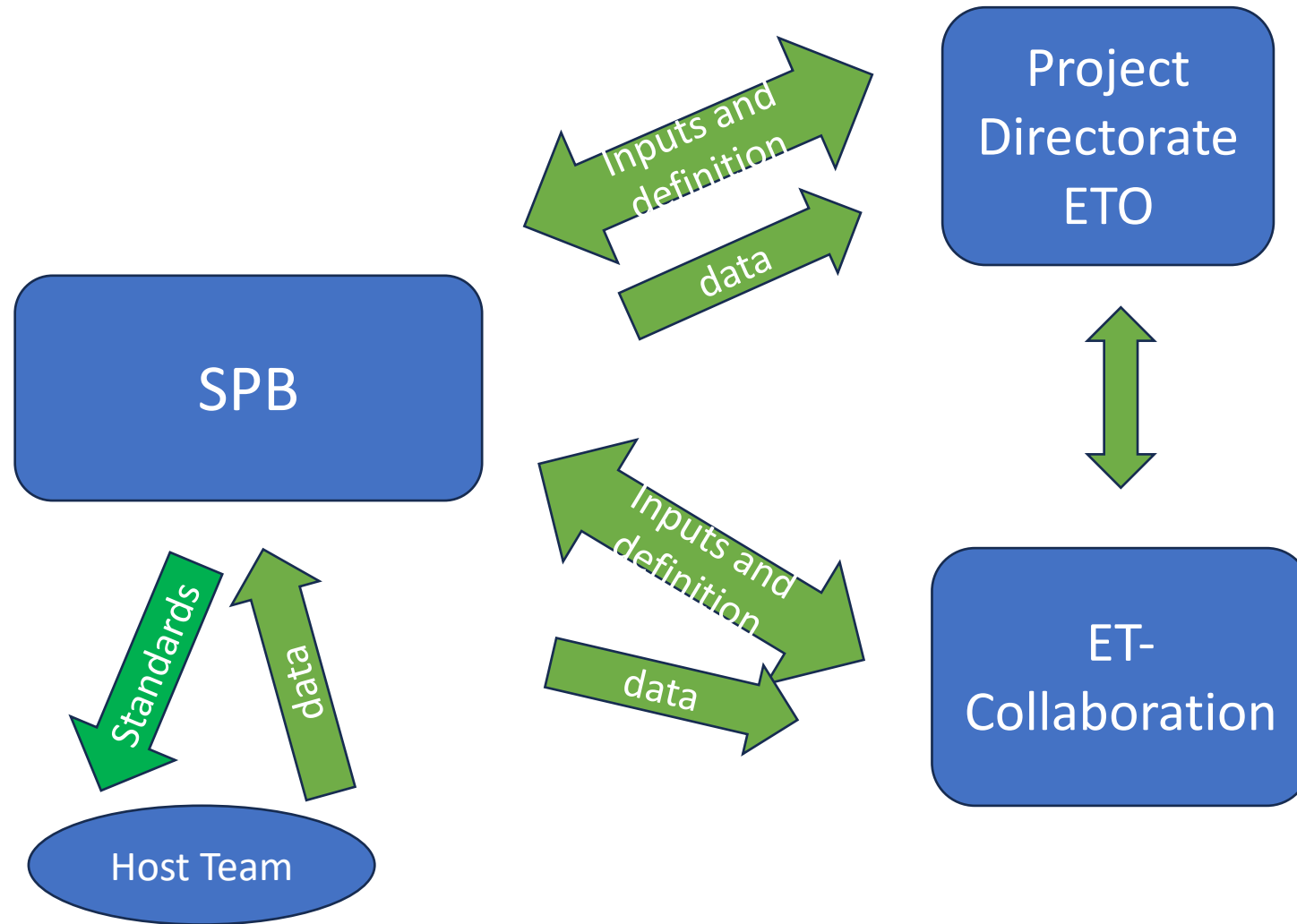
ET-LF



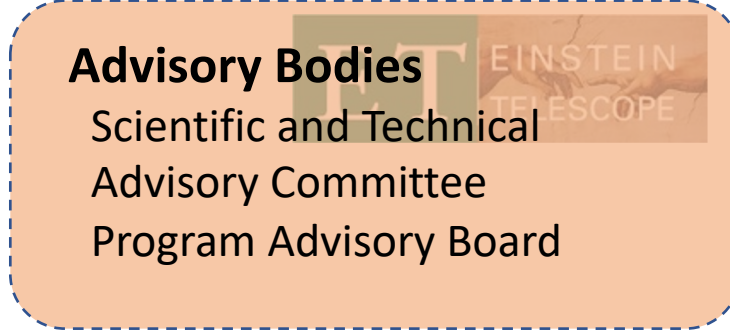
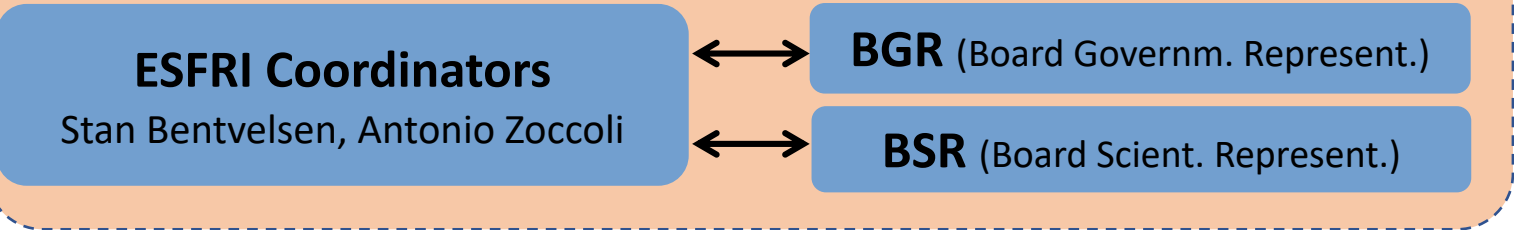
understanding of environmental noise effects and reliable mitigation systems



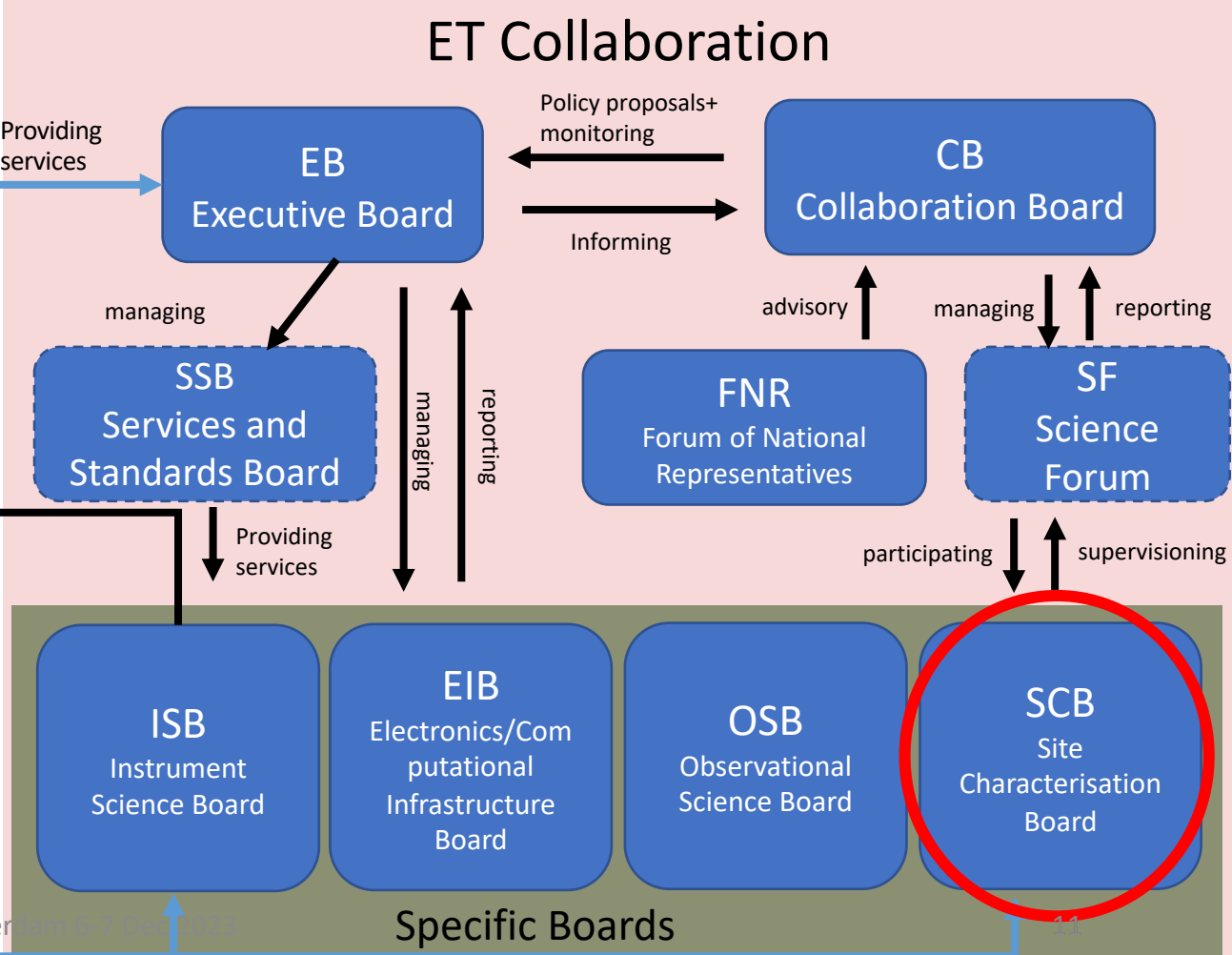
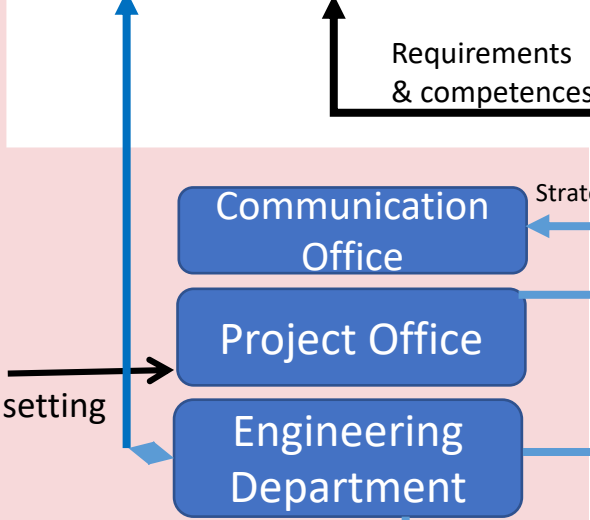
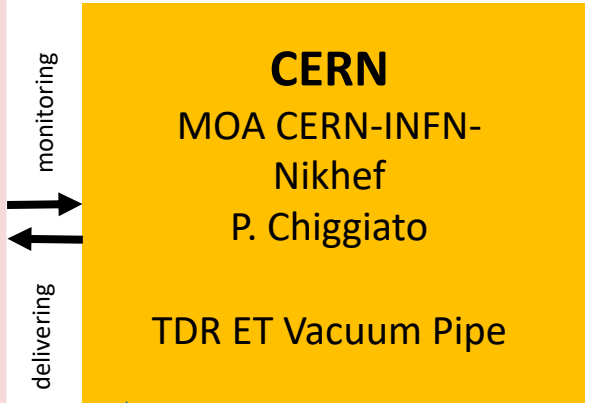
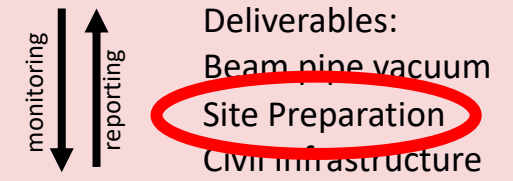
Interaction with ETO and ET Collaboration



Proto-council



Policy & monitoring



INFRADEV: ET-PREPARATORY PHASE

- ET governance
- Legal framework
- Financial Model
- WP4: Site characterization
- Project Office & engineering
- Technical design
- Innovation
- Computing Model
- Sustainability Strategy and Environmental impact
- Outreach

