

# Einstein Telescope

Euregio Meuse – Rhin (ET-EMR)

Infosession – Tender TN422801 'Civil Engineering feasibility phase'

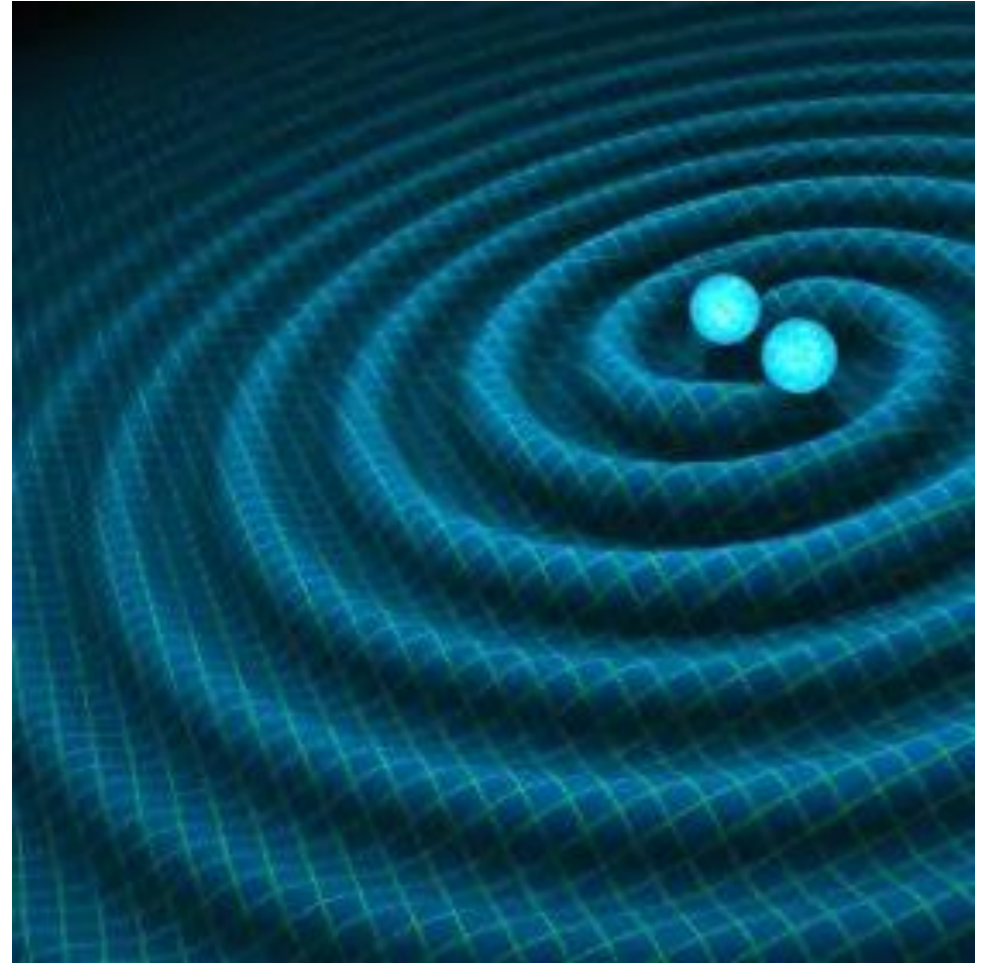
10-10-2023 Maastricht

# Goal

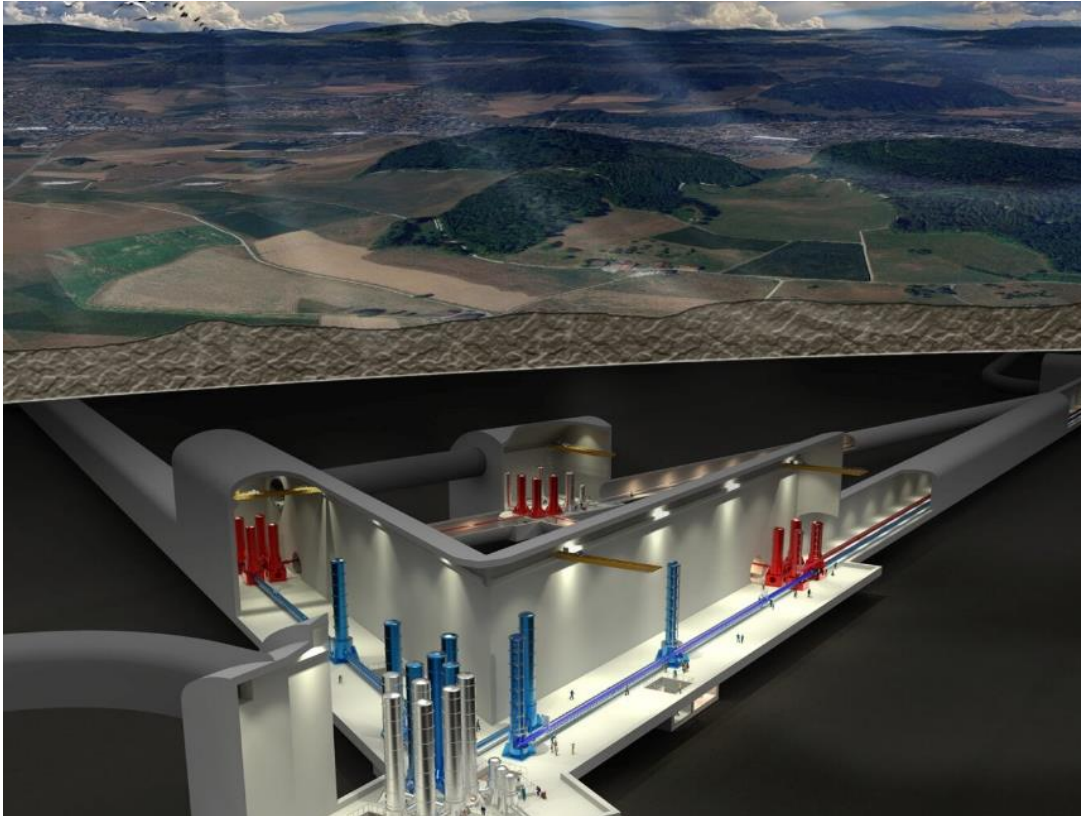
Inform about the adjustments in the tender.

Adjustments as a result of:

- developments in the European ET organisation
- questions asked in the tender.



# Introduction



- On behalf of Client

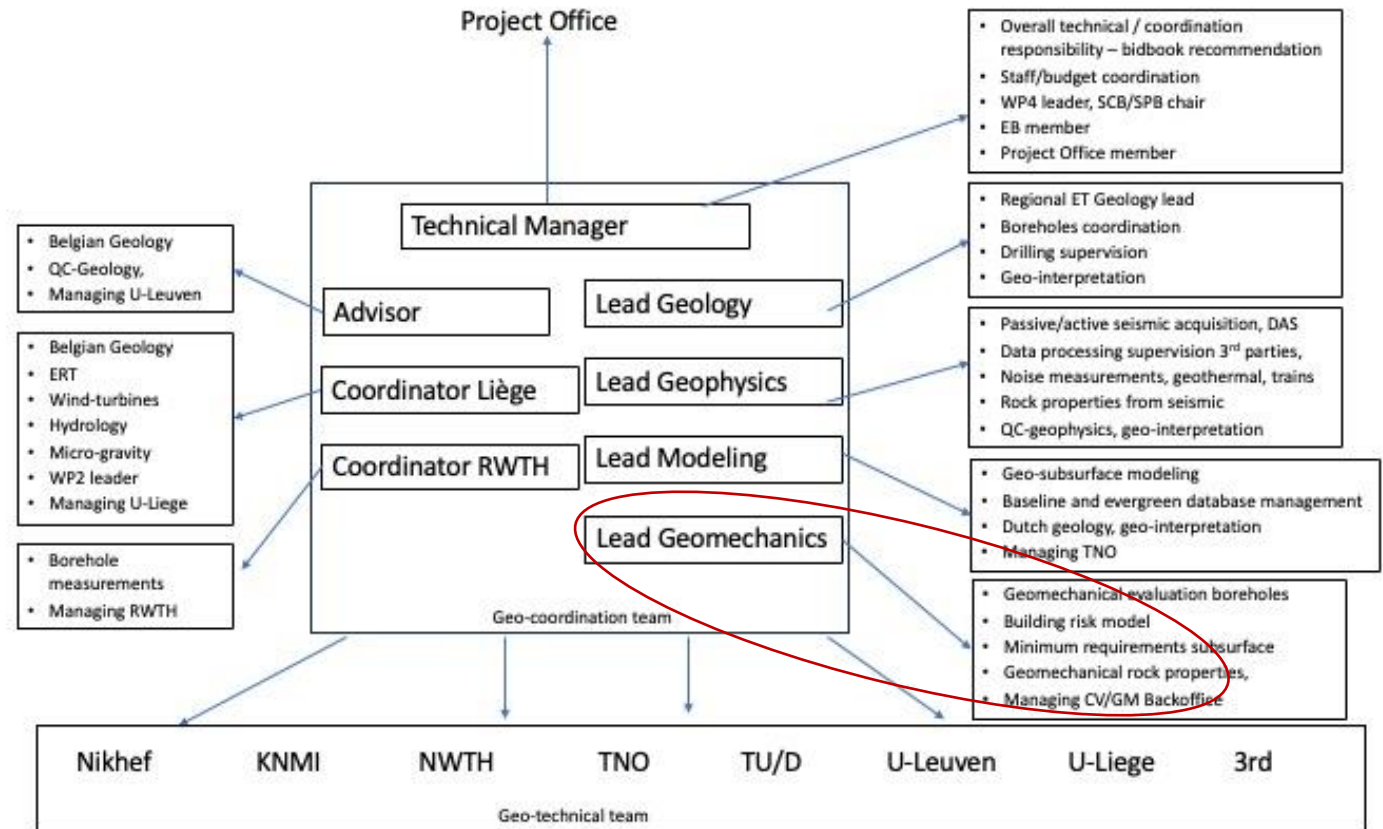
- |                   |                                       |
|-------------------|---------------------------------------|
| ○ Guid Bartholomé | Projectmanagement                     |
| ○ Wim Walk        | Technical management                  |
| ○ Hugo Lahaije    | Environmental management              |
| ○ John Kerstjens  | Project control / contract management |

- On behalf of interested parties

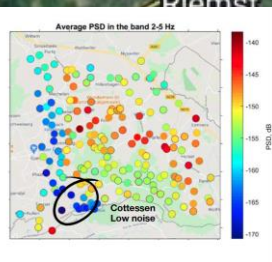
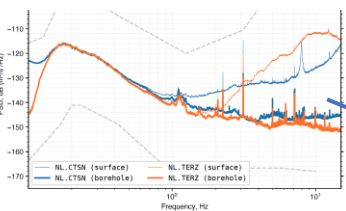


# ET-EMR – Technical management

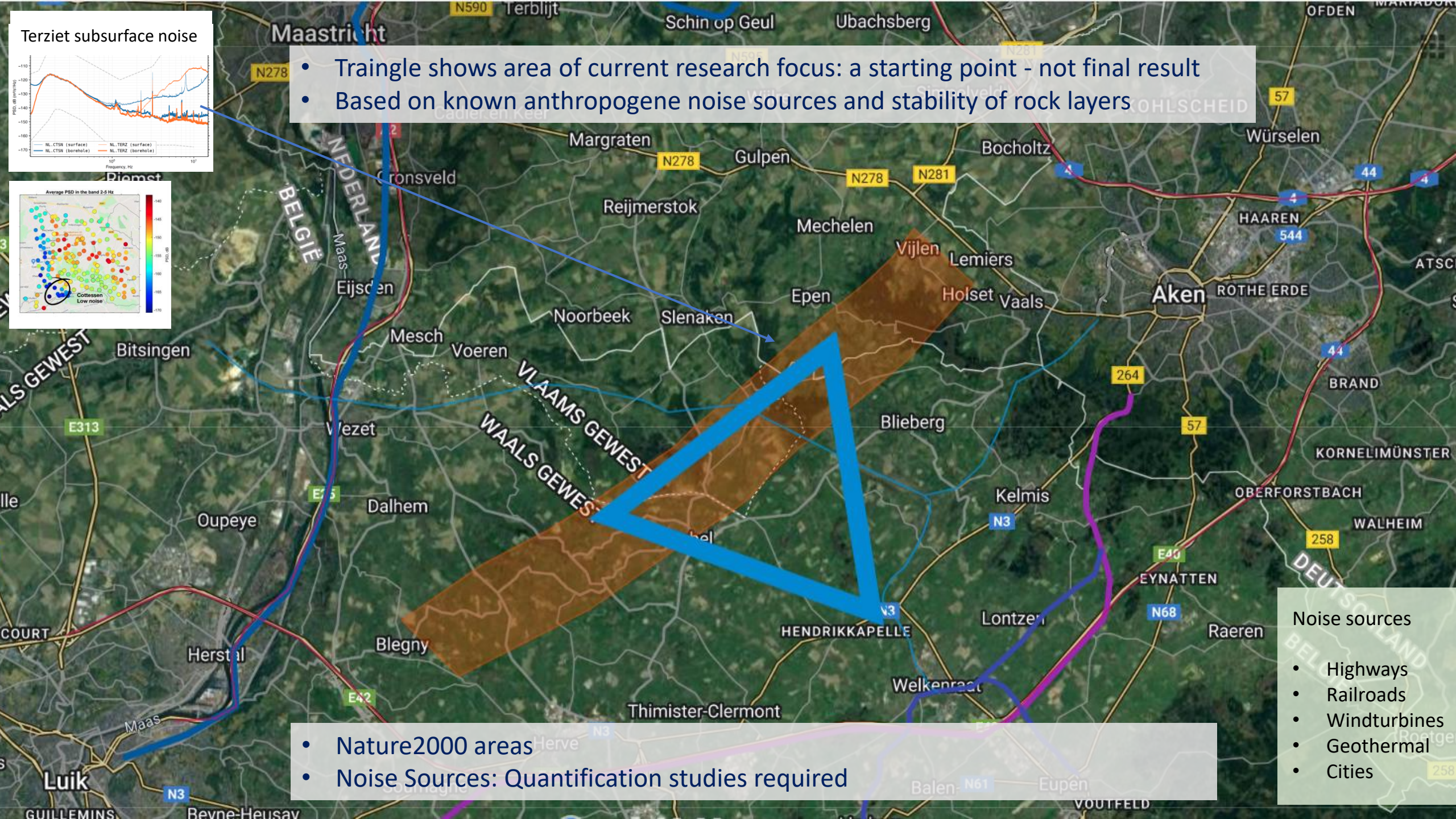
- Technical Management Team
- Responsible for final recommendation
- Role of Geomechanics / Civil Engineering
- De-risking subsurface
- Incorporating constraints from surface
  - Anthropogenic Noise
  - Natura 2000
  - Etc.
- Finding suitable trajectory(s)
  - Risk and Cost based
- Final recommendation for Bidbook



## Terziet subsurface noise



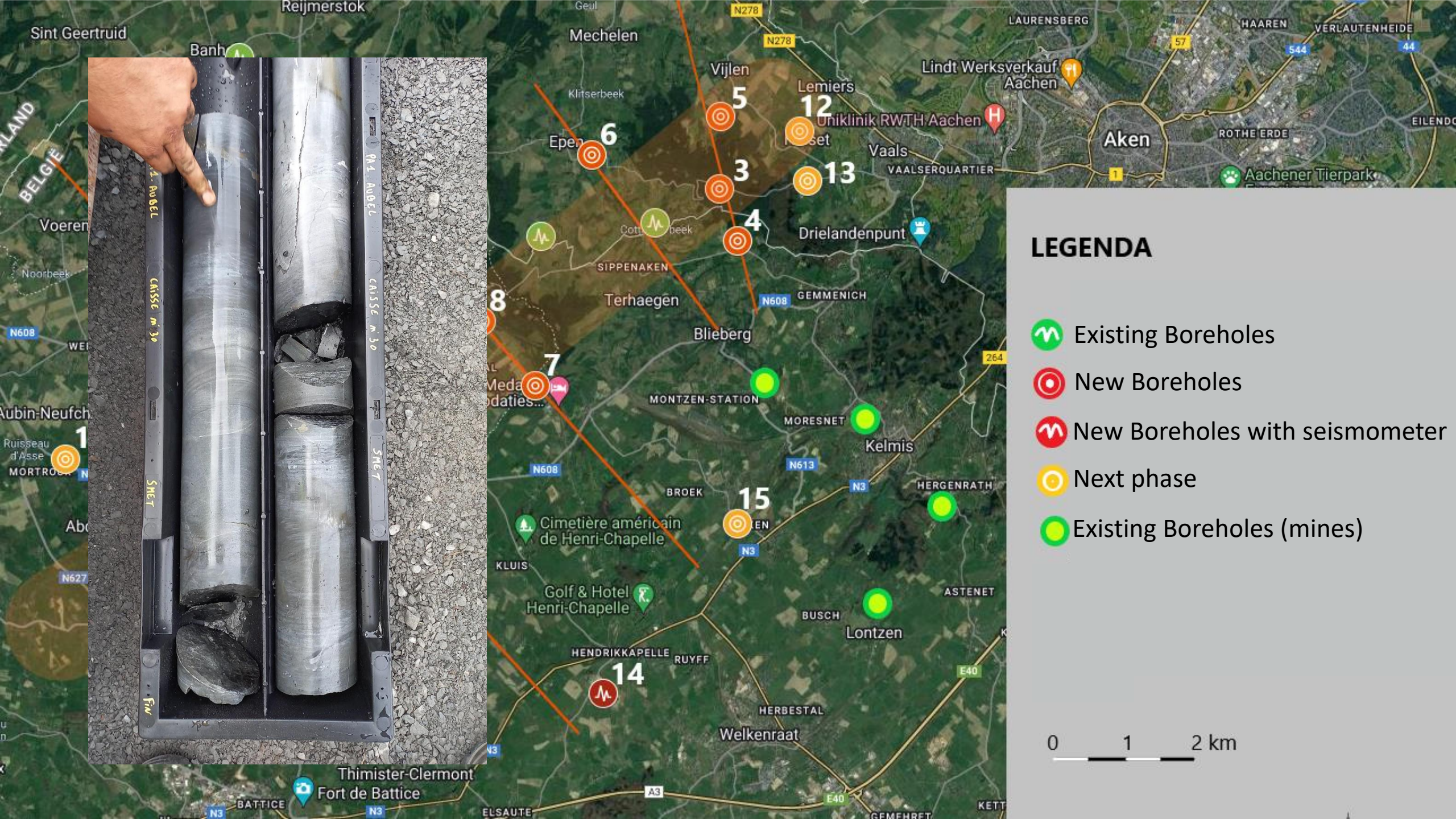
- Traingle shows area of current research focus: a starting point - not final result
- Based on known anthropogene noise sources and stability of rock layers



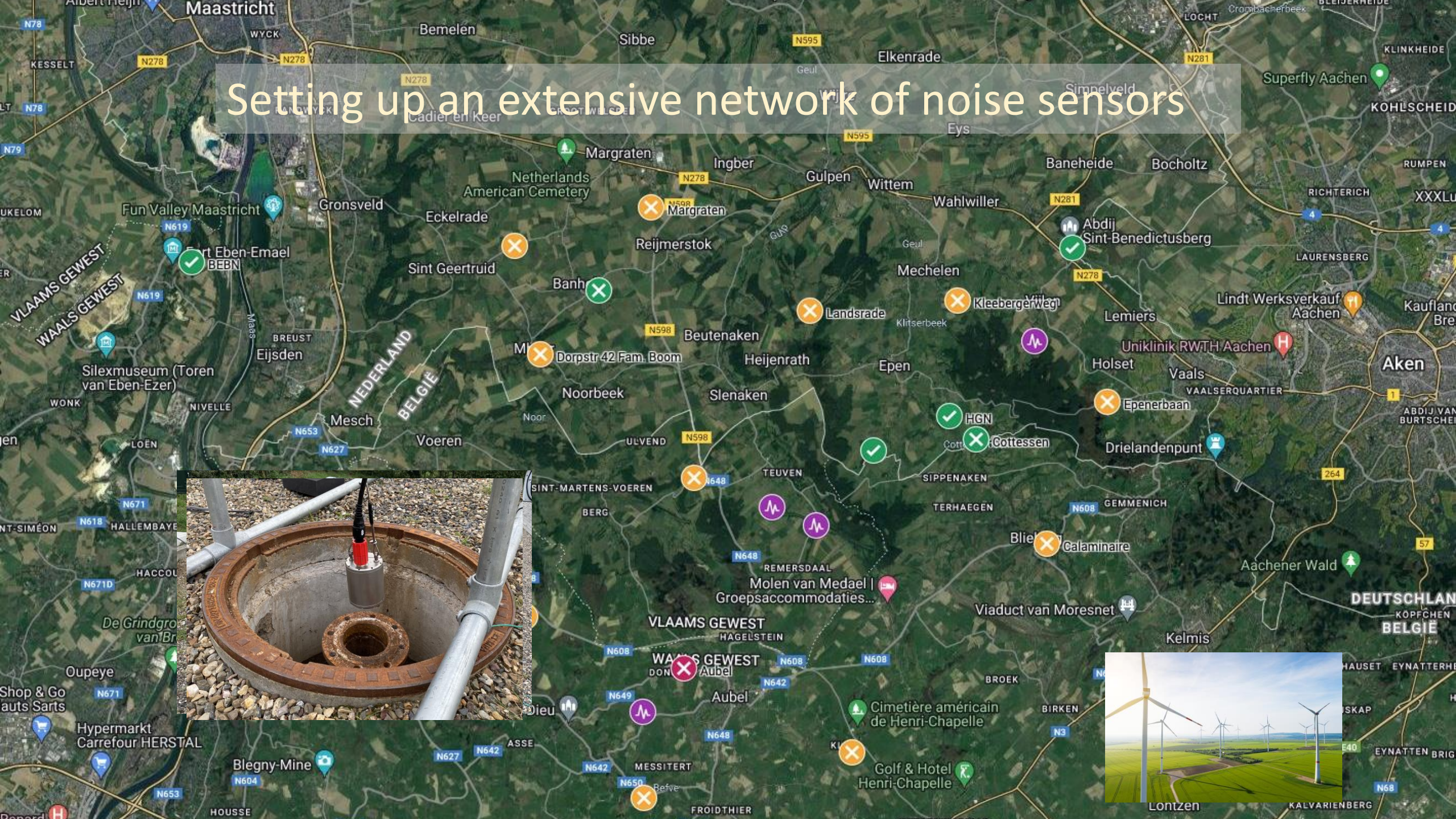
- Nature2000 areas
- Noise Sources: Quantification studies required

## Noise sources

- Highways
- Railroads
- Windturbines
- Geothermal
- Cities

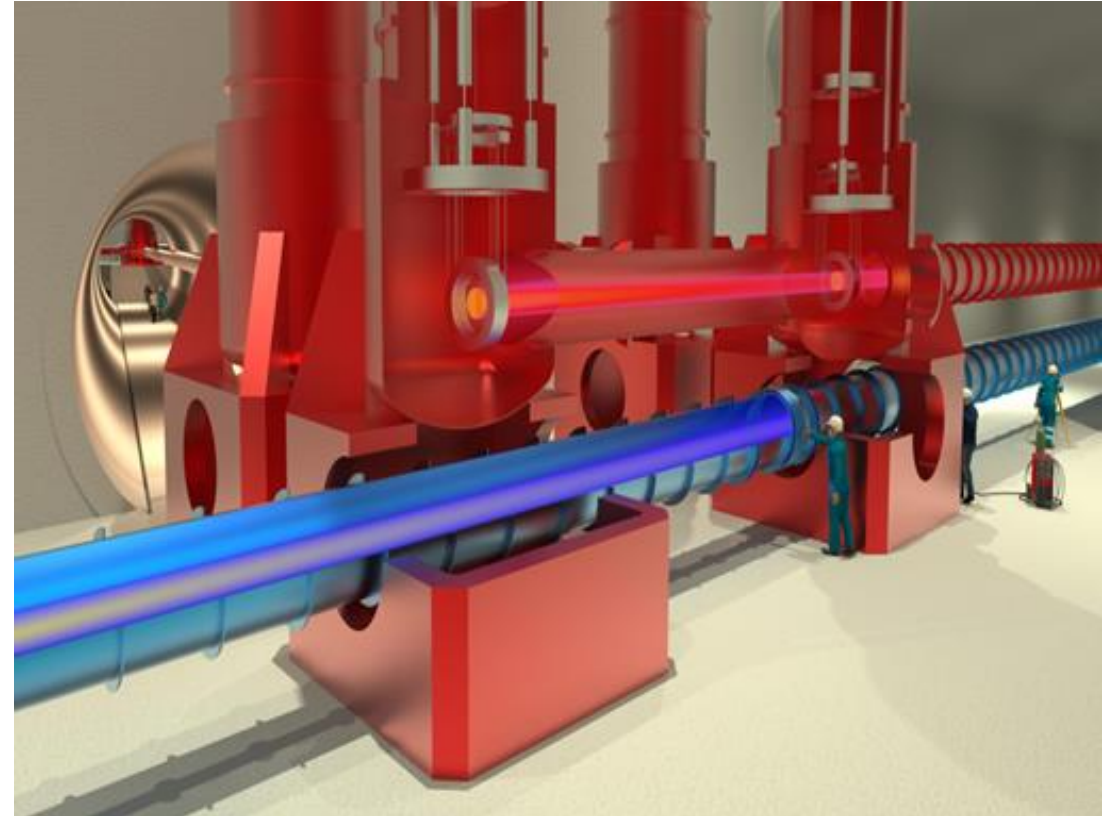


# Setting up an extensive network of noise sensors



# Content

- European ET-organisation ↔ ET-EMR
- Initial Tender scope
- Developments within ETO / Tender questions
- Adjusted Tender scope
- Roundtable



# European ET-organisation ↔ ET-EMR

Site independent  
(European)

## ET Collaboration

Scientific research program

## ET Organisation

Site selection – Technical design

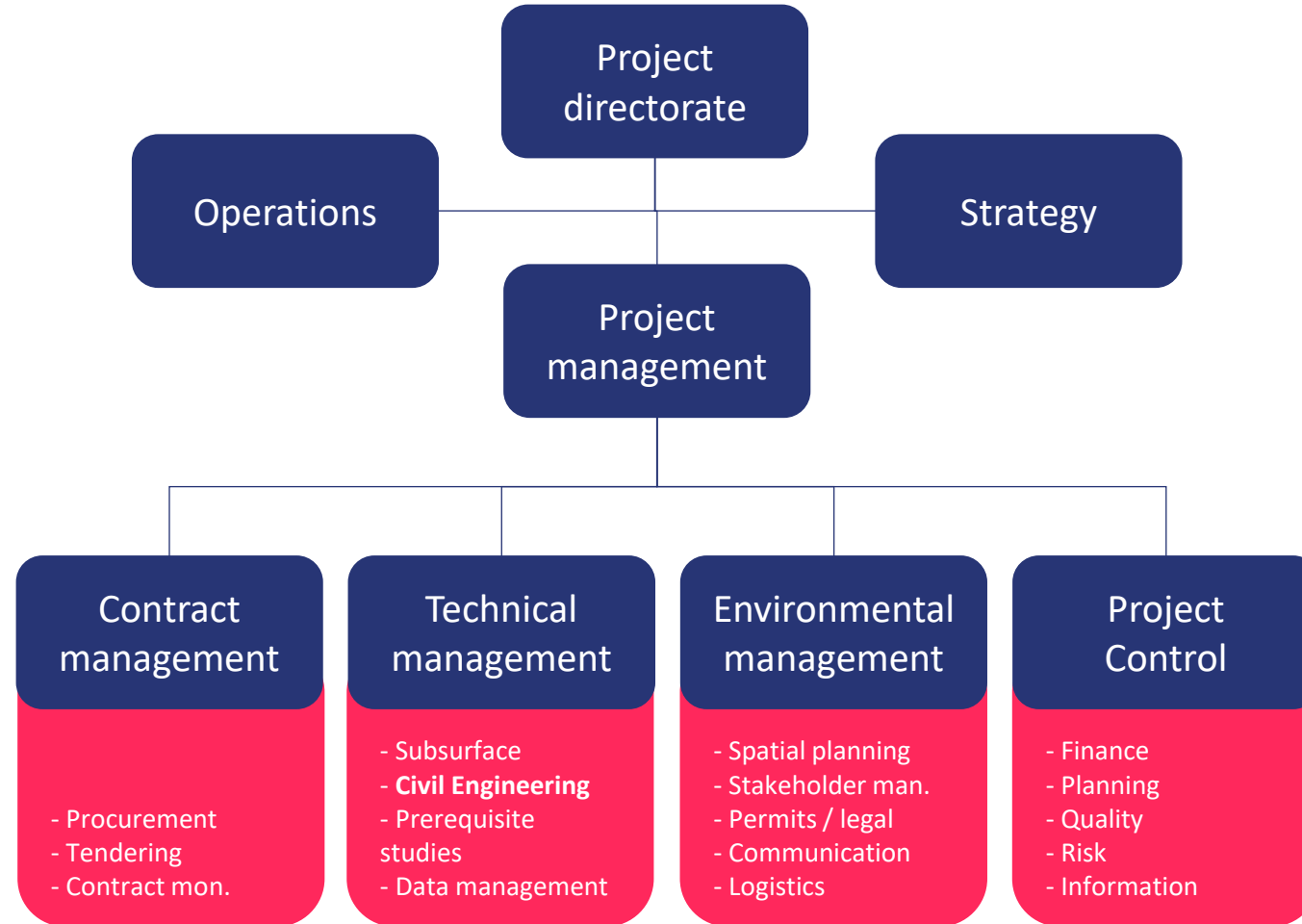
Site specific  
(Euregio Meuse-Rhin / Sardinia)



- Civil engineering, installations
- Subsurface, Noise
- Environment and legal
- Finance, planning, risk



# Project Office ET-EMR



## Project office ET-EMR:

- International cooperation Euregio
- Integrated Project Management model (IPM)
- Located in Maastricht



# Initial Tender scope: Products and Services

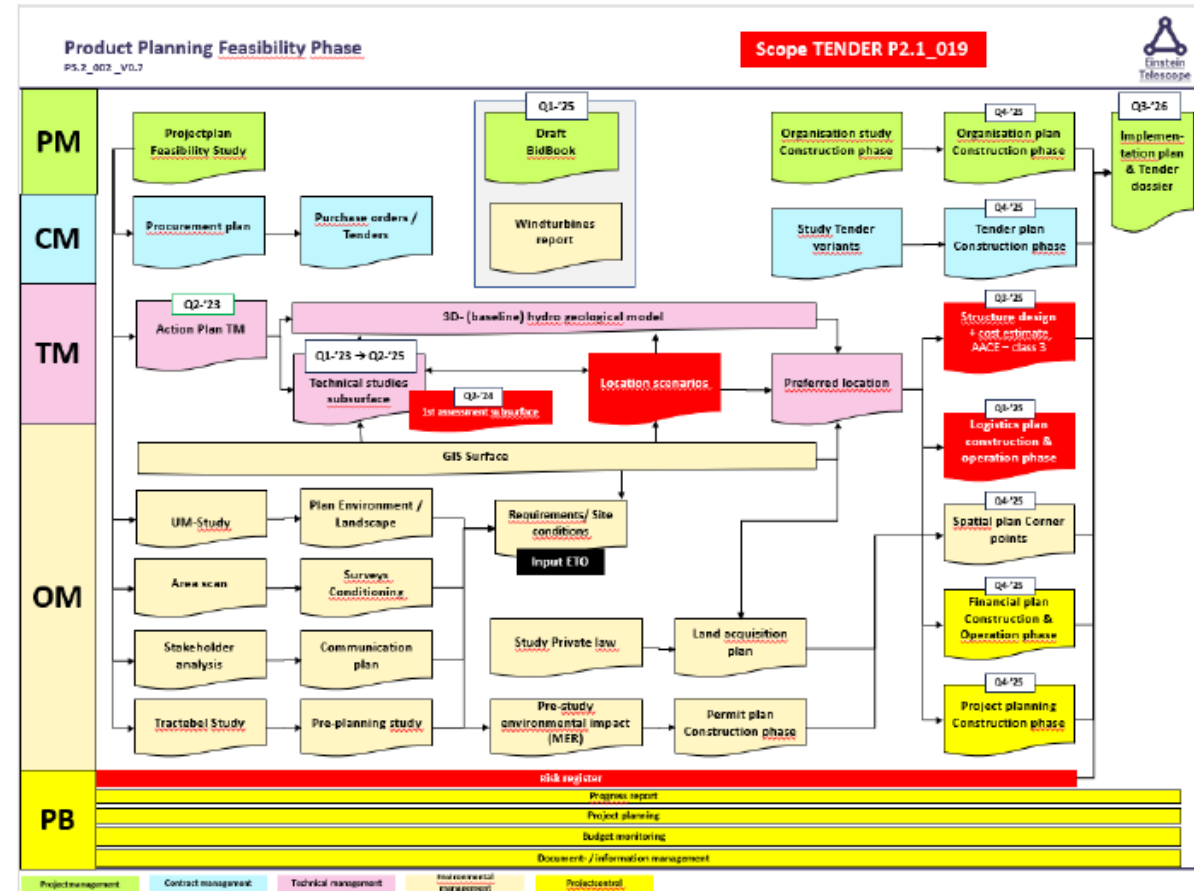
Based on input from Client / ETO:

## Products:

- 1st assessment subsurface
- Location scenarios
- Structure design + cost estimate
- Logistics plan
- Risk register

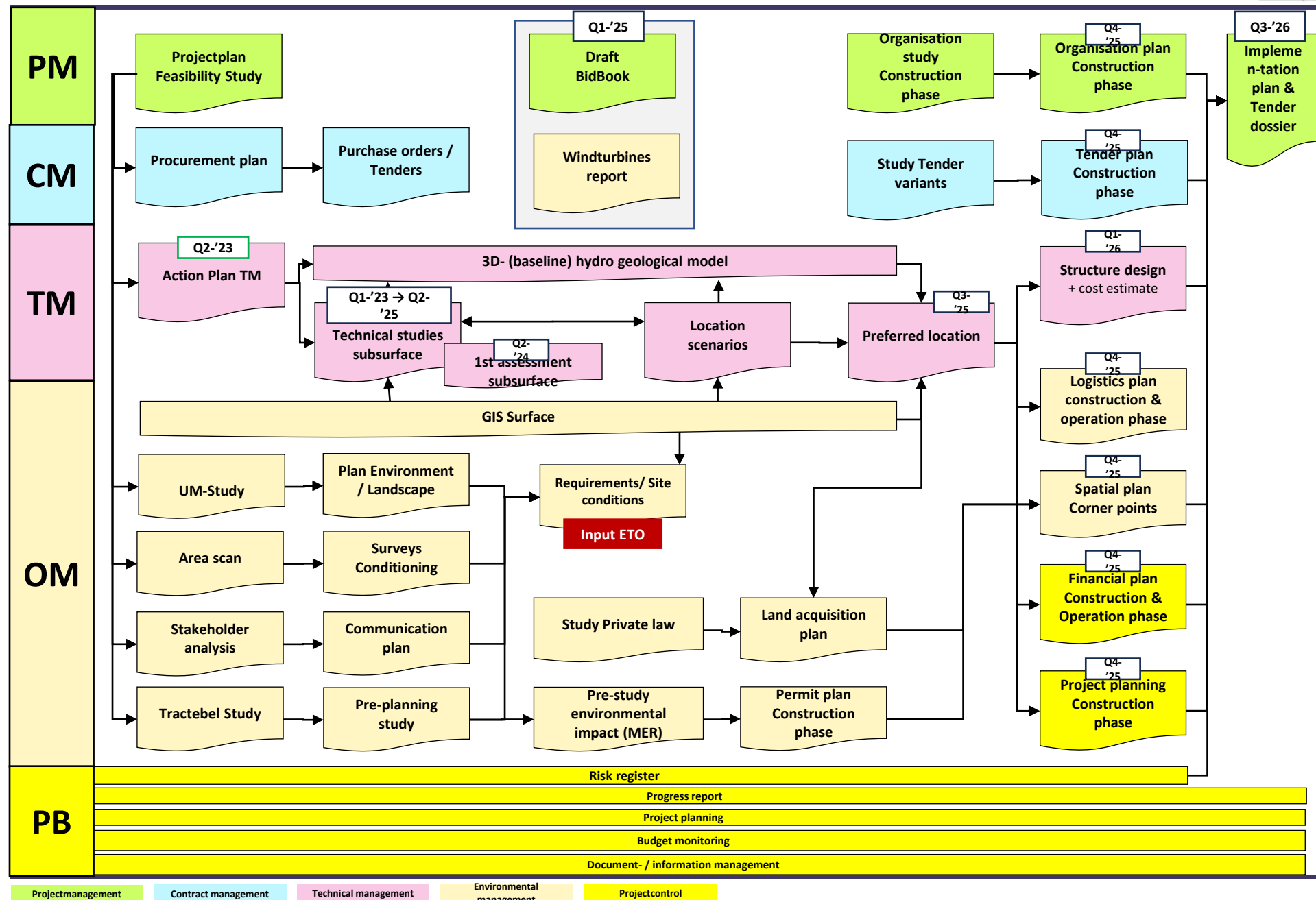
## Services:

- Project manager Civil Engineering
- Backoffice



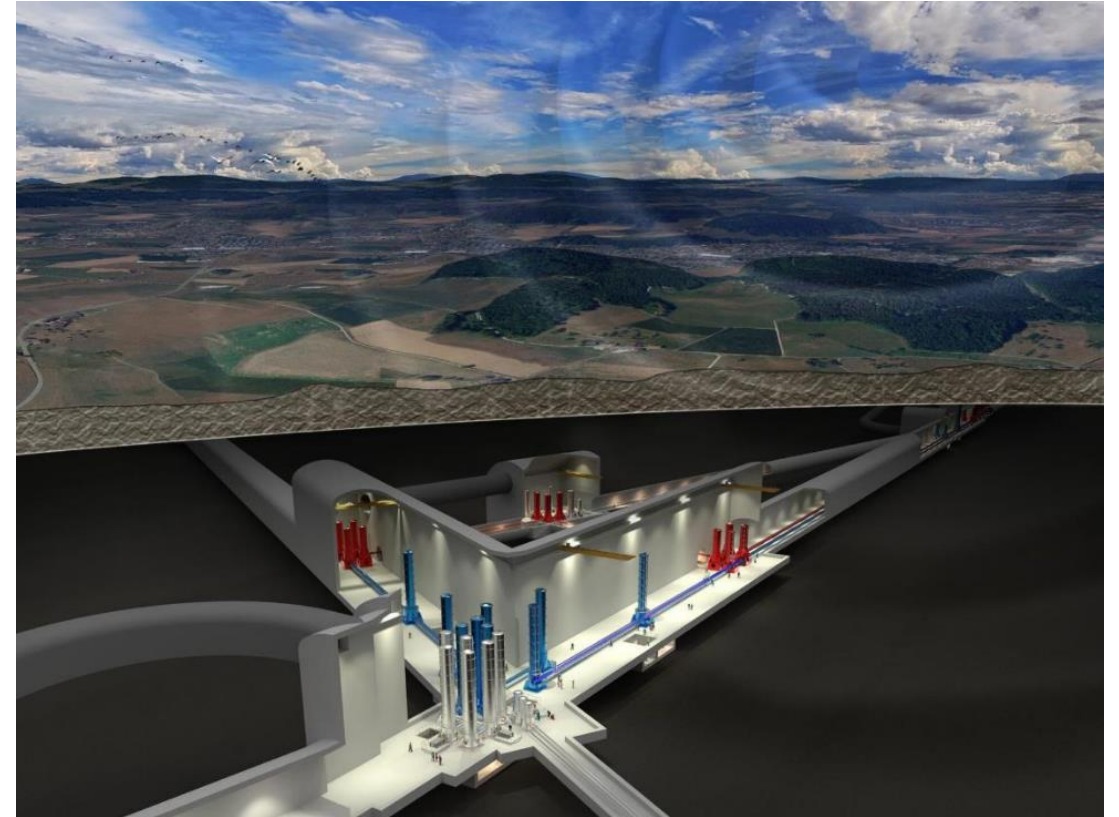
# Product Planning Feasibility Phase

P5.2\_002\_V0.8



# Developments within ETO

- To deliver necessary reports ETO needs input from:
  - ET Collaboration
  - External partners (e.g. CERN)
- Products / reports will be a result of cooperation between European and local teams
- Adjusted timeline



# Tender Questions

- More information needed to price products:
  - Studies (surface and subsurface)
  - Surveys (surface and subsurface)
  - Product descriptions
  - Level of detail
- Work on behalf of a feasibility study for Einstein Telescope for any other party than Nikhef.
- Questions on format, procedure, process.



# Adjusted Tender Scope

- **Tender:**
  - Projectmanager Civil Engineering
  - Backoffice
- **After award:**
  - Part of technical team ET-EMR
  - Determine product details
  - Collecting required input
  - Deliver products



# Adjusted Tender Documents

- **Procurement Guide – Project plan**

- Project approach: focus on delivering services (pm and backoffice) that lead to products.
- Data protection: Add “Interest protection plan” if tenderer intends to carry out work for competing feasibility studies (exclusivity in section 3.5.1. will be deleted).

- **Assignment description**

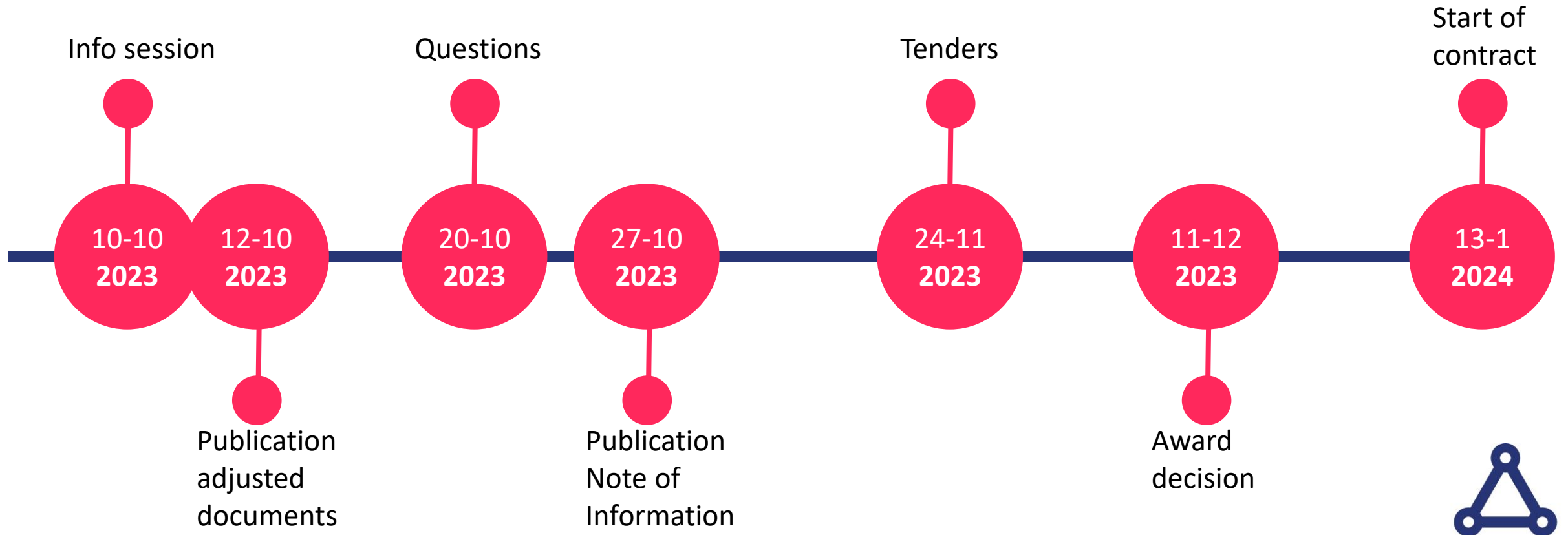
- The section ‘Products’ will be deleted as assignment, and added as informative Annex.

- **Price sheet**

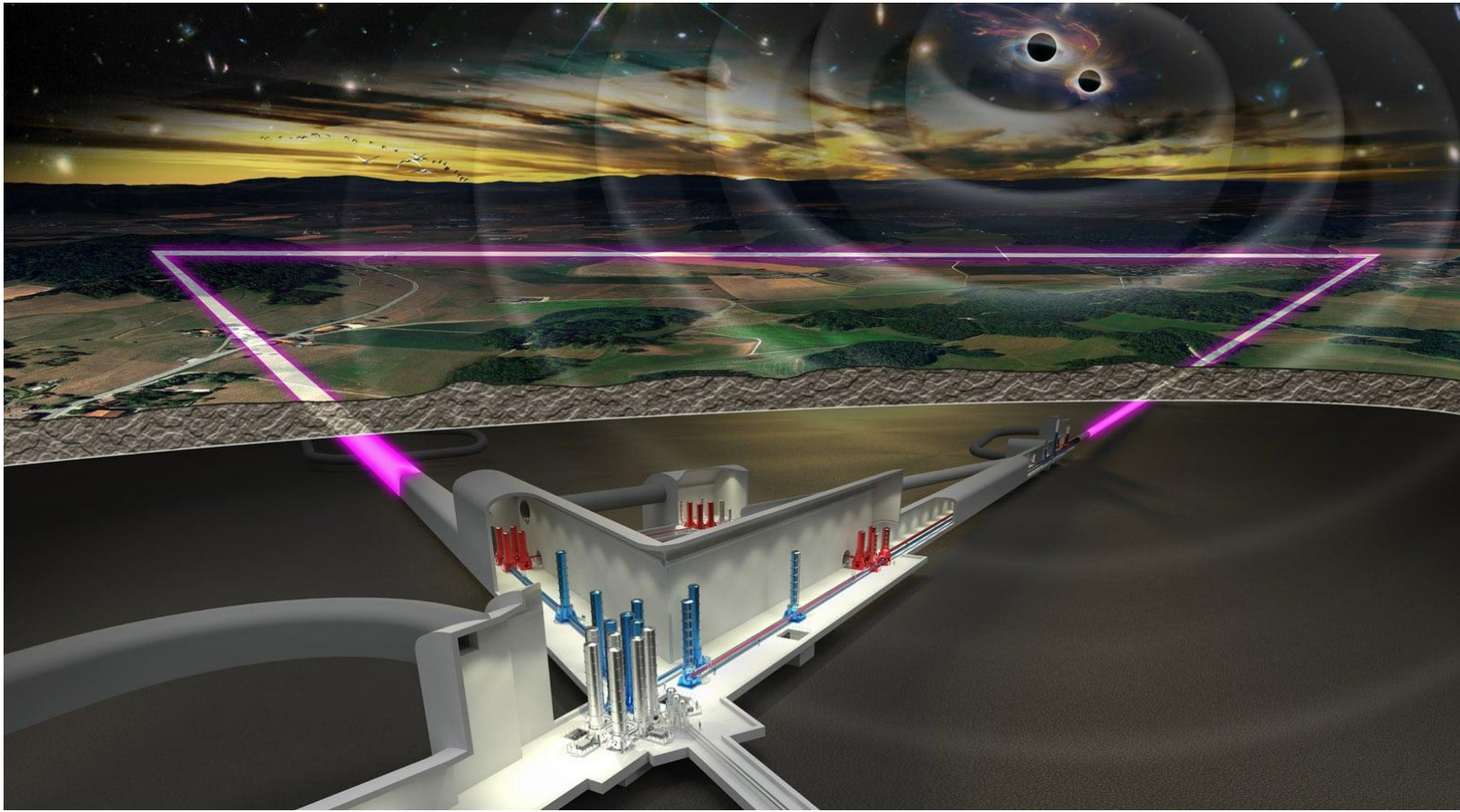
- The section ‘Products’ will be deleted.
- The indicative number of hours will be increased.

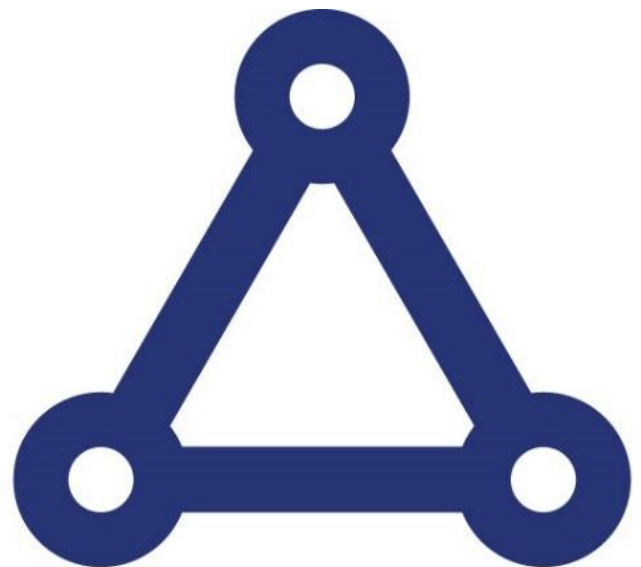


# Timeline



# Roundtable





**Einstein**  
**Telescope**