CLIC Schedule

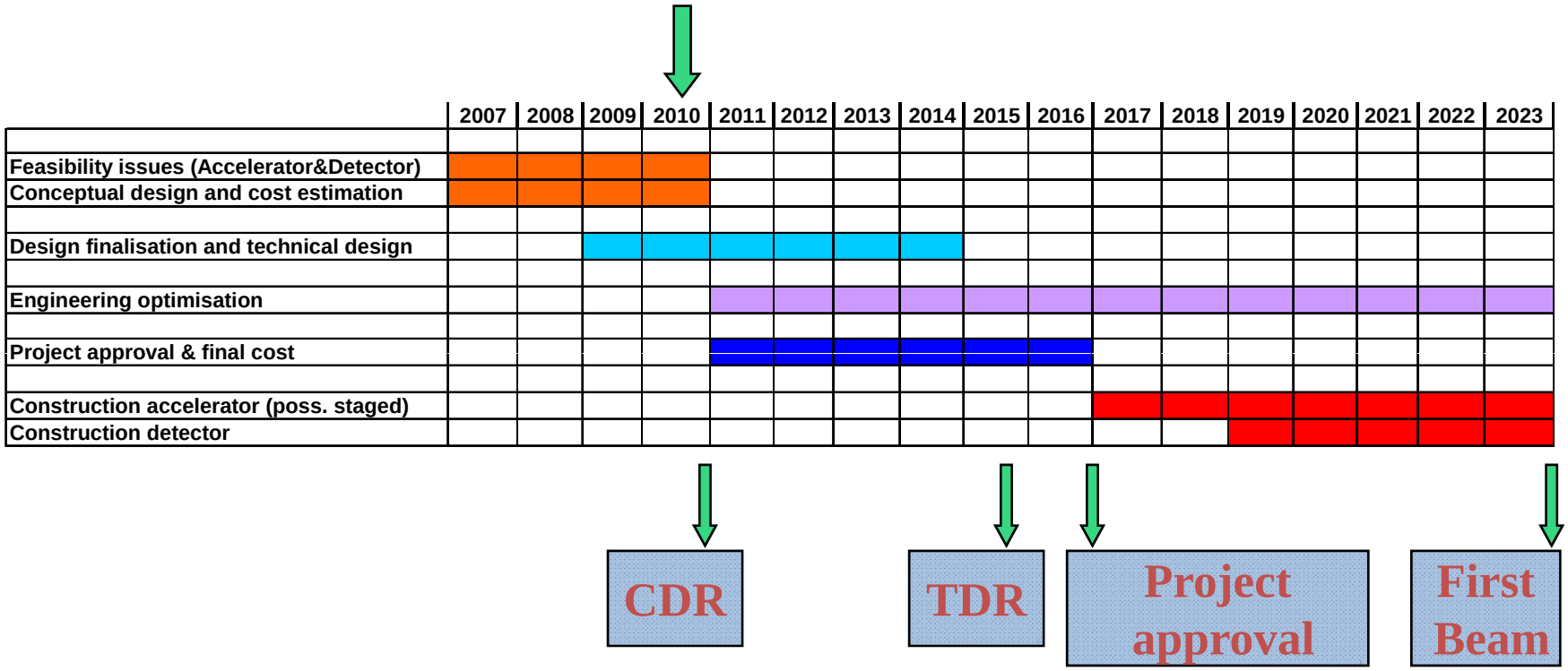
« Time estimation based on LHC installation methods and experience »

Katy Foraz

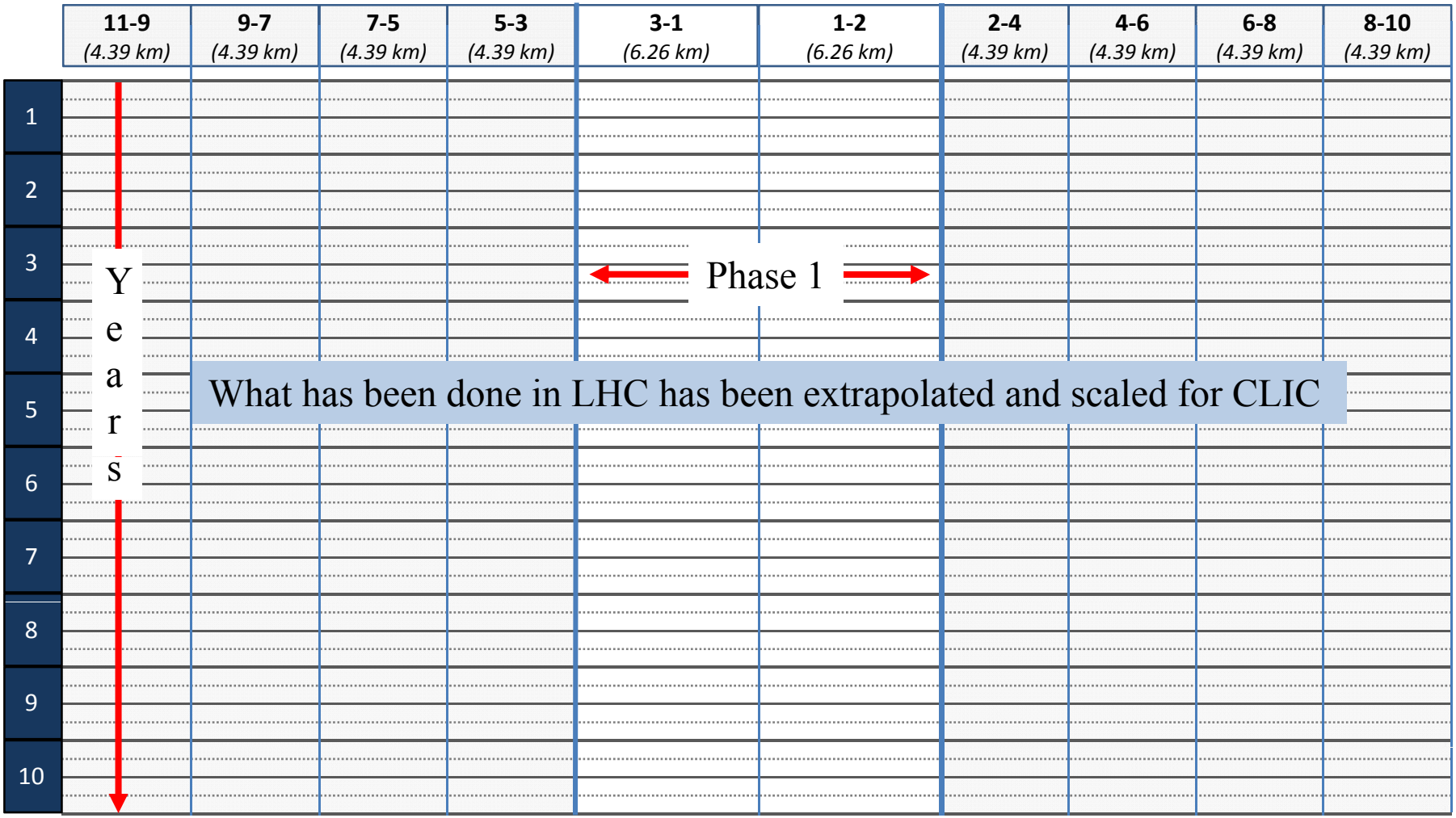
Tentative long-term CLIC scenario

Shortest, success oriented and technically limited schedule

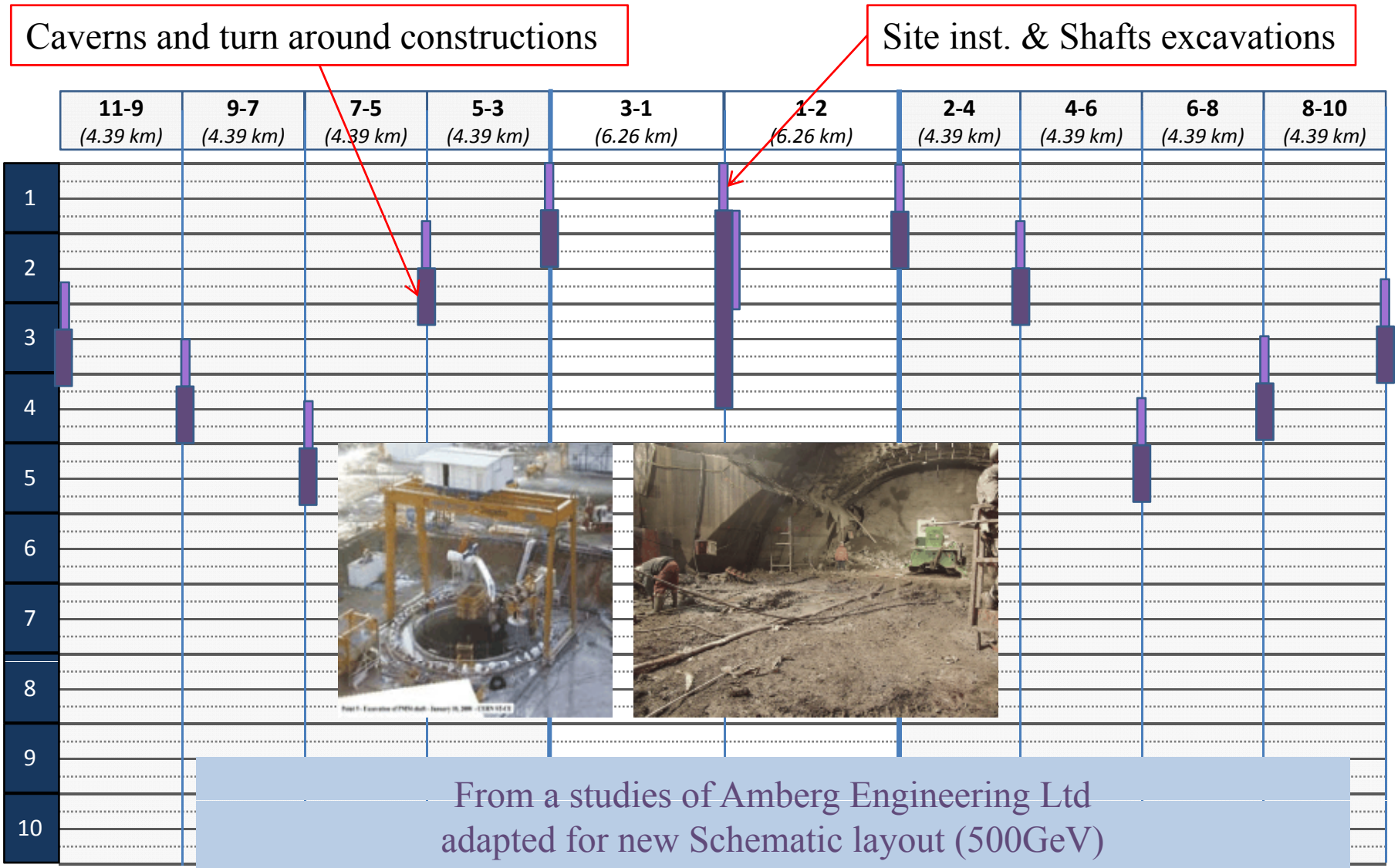
Technology evaluation and Physics assessment based on LHC results for a possible decision on Linear Collider funding with staged construction starting with the lowest energy required by Physics



CLIC Installation Schedule

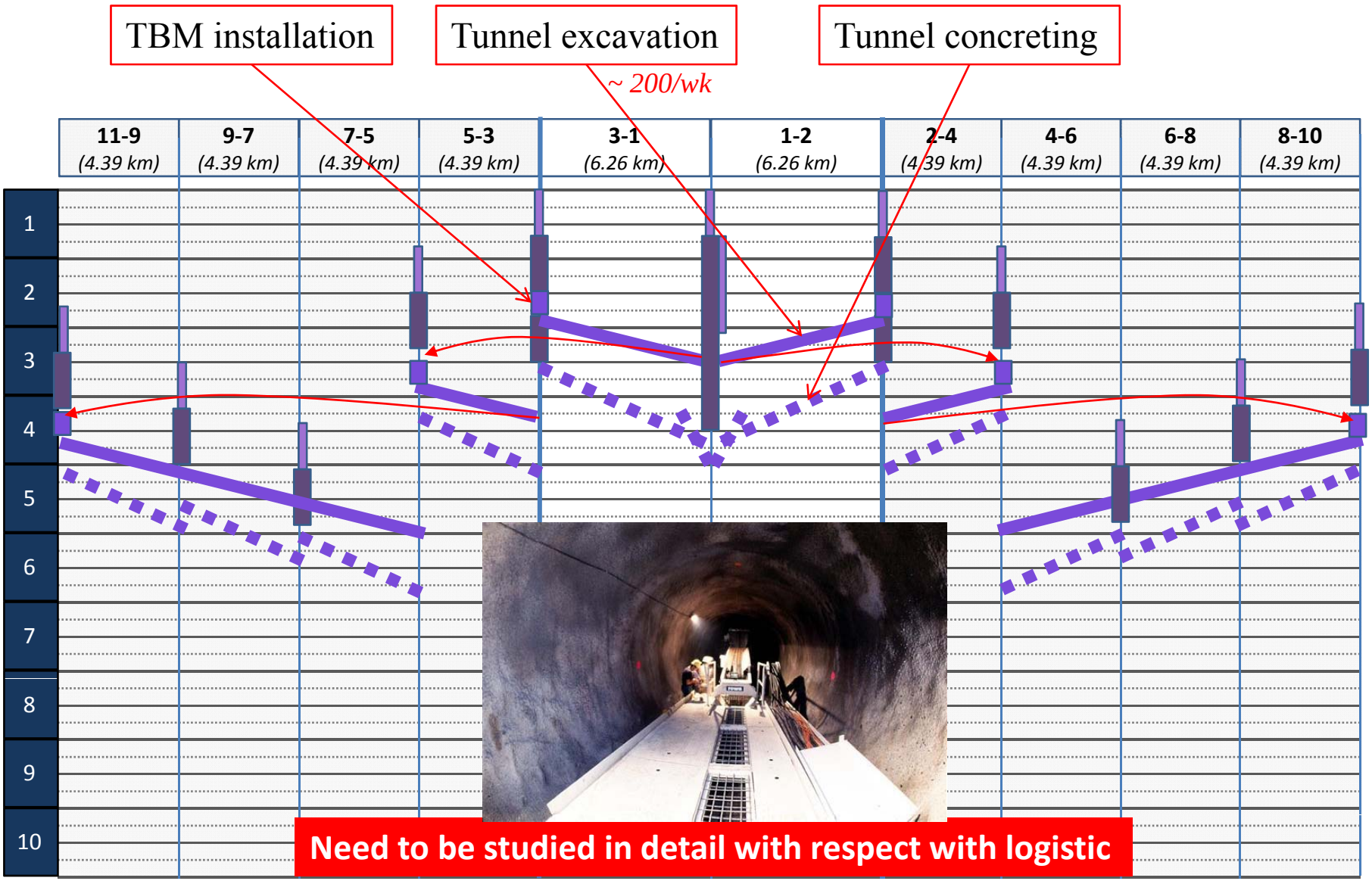


Civil Engineering works

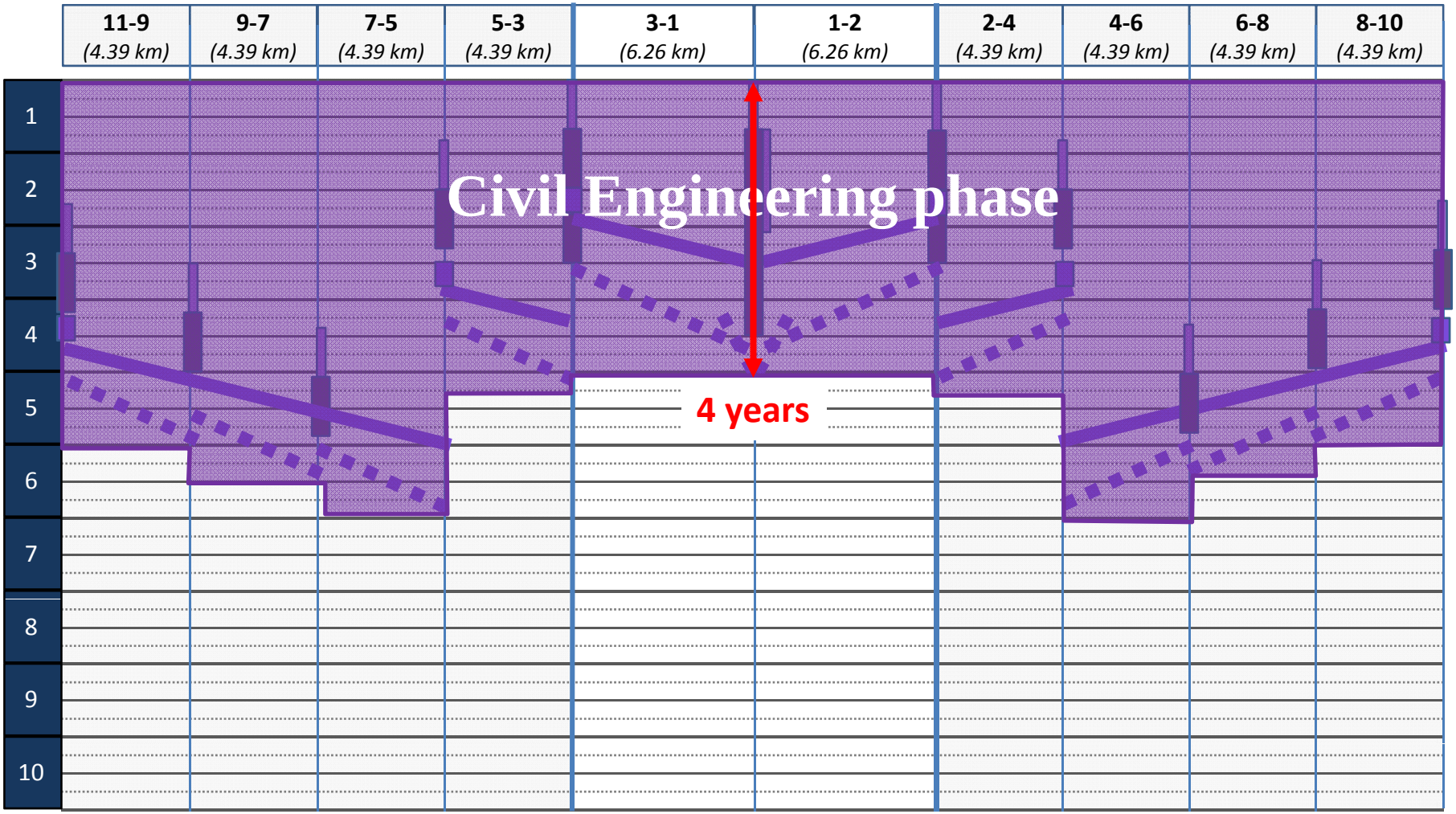


From a studies of Amberg Engineering Ltd
adapted for new Schematic layout (500GeV)

Civil Engineering Works



Civil Engineering Works



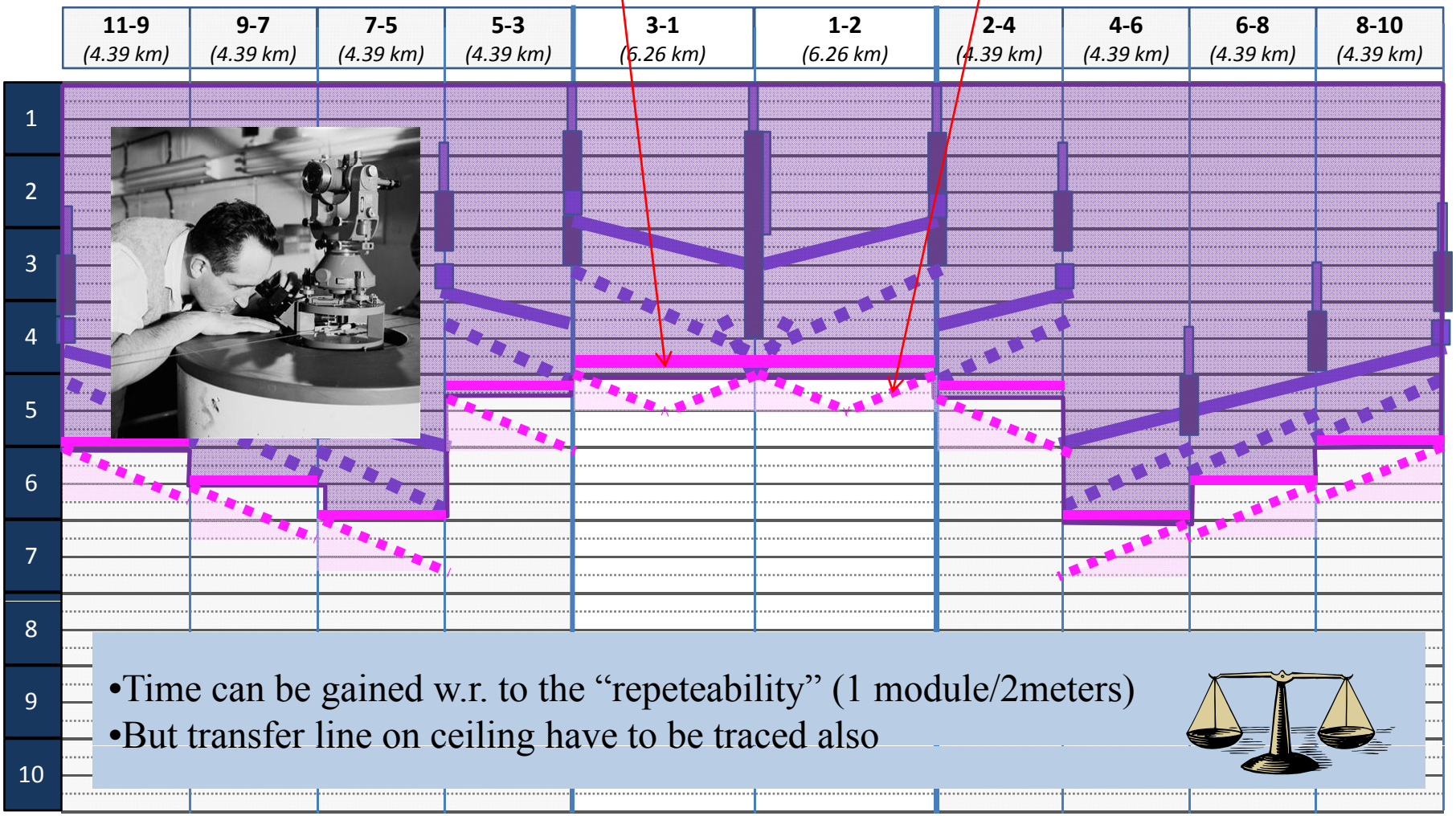
Survey

Geodesic network measurements

Asap activity,
before areas are handed over by CE

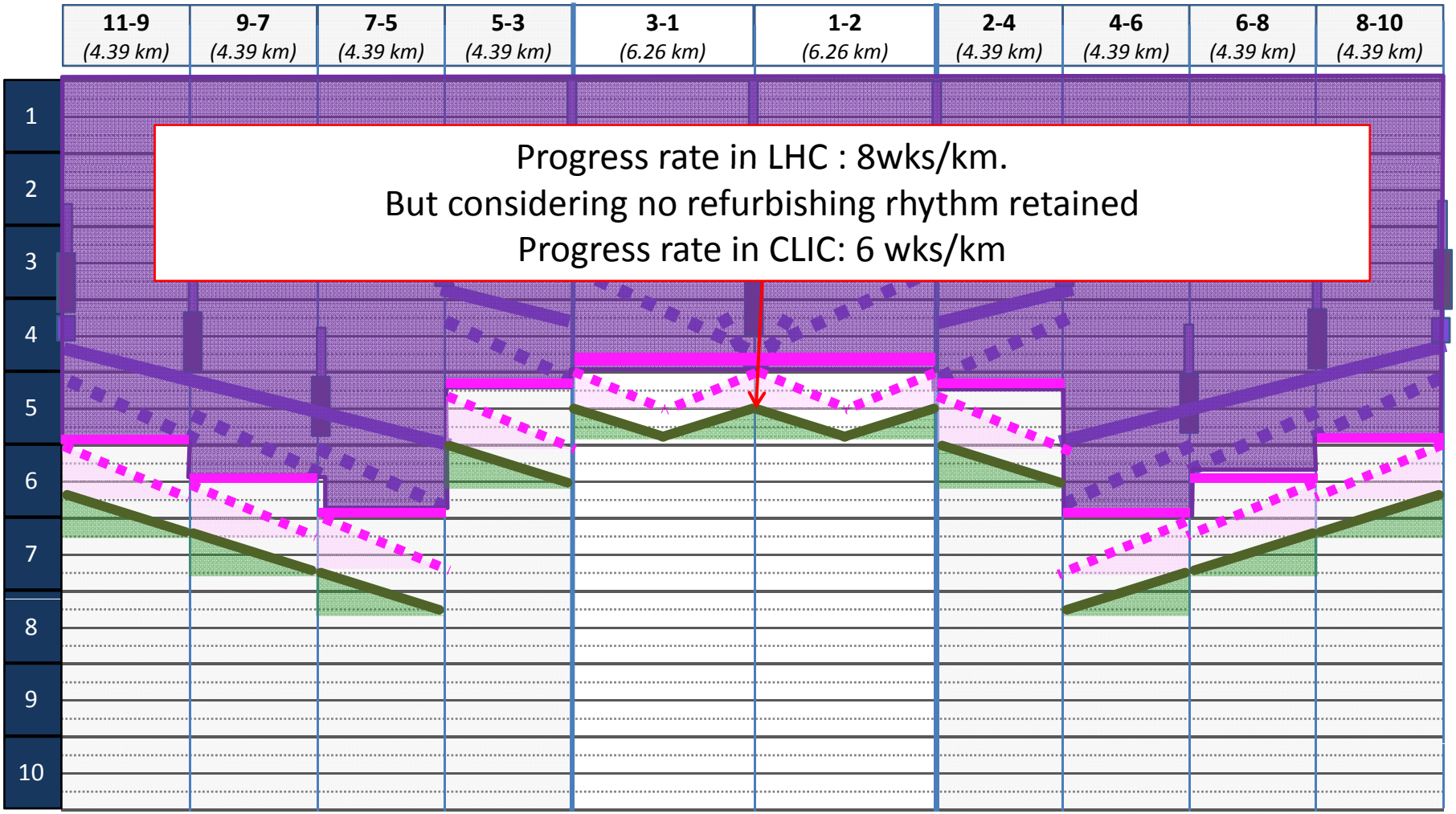
Marking position on floor

From LHC: Rule of 3,
4 teams needed

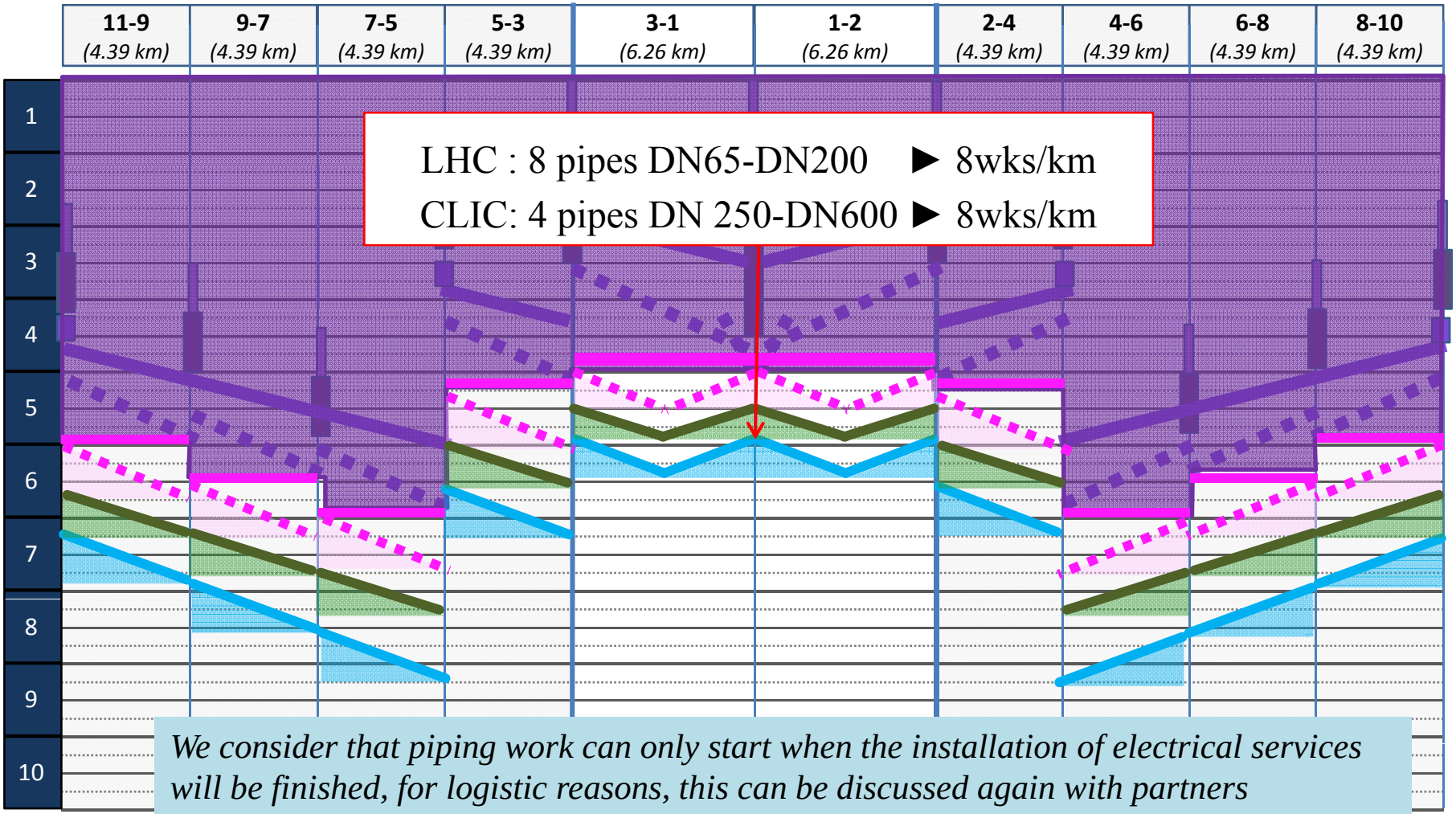


- Time can be gained w.r. to the "repeteability" (1 module/2meters)
- But transfer line on ceiling have to be traced also

Electrical General Services

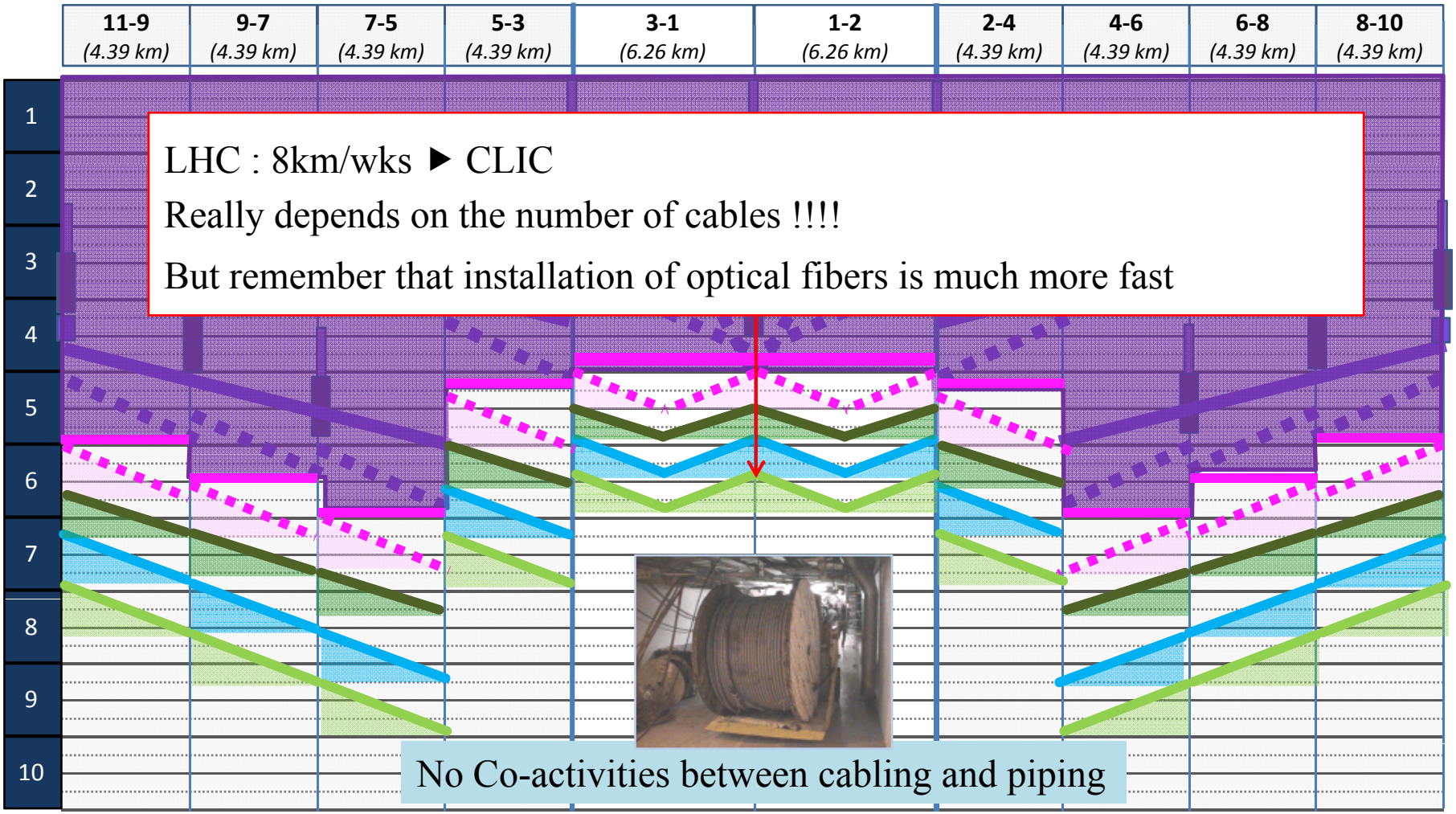


Piping

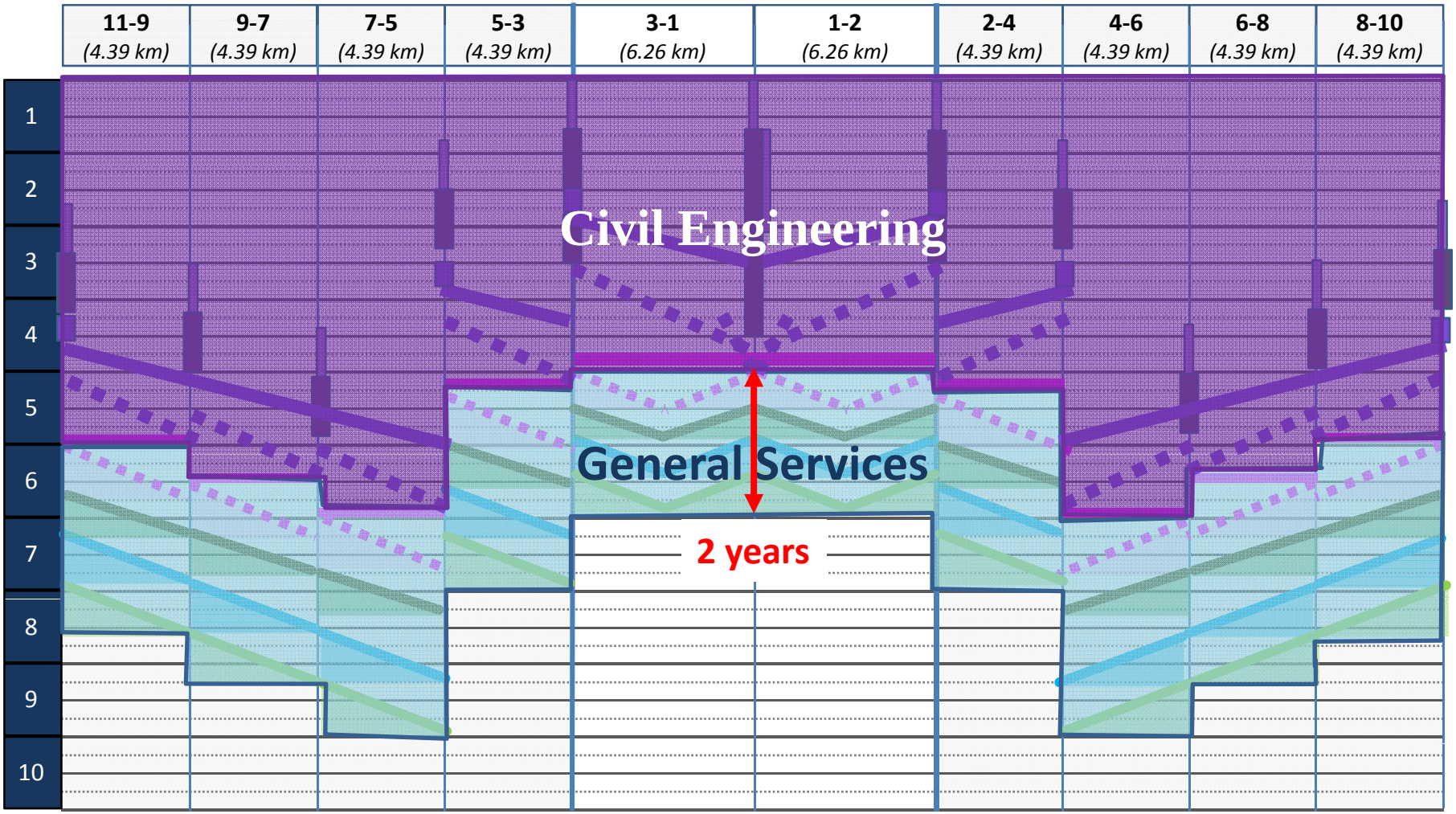


We consider that piping work can only start when the installation of electrical services will be finished, for logistic reasons, this can be discussed again with partners

DC & AC Cabling

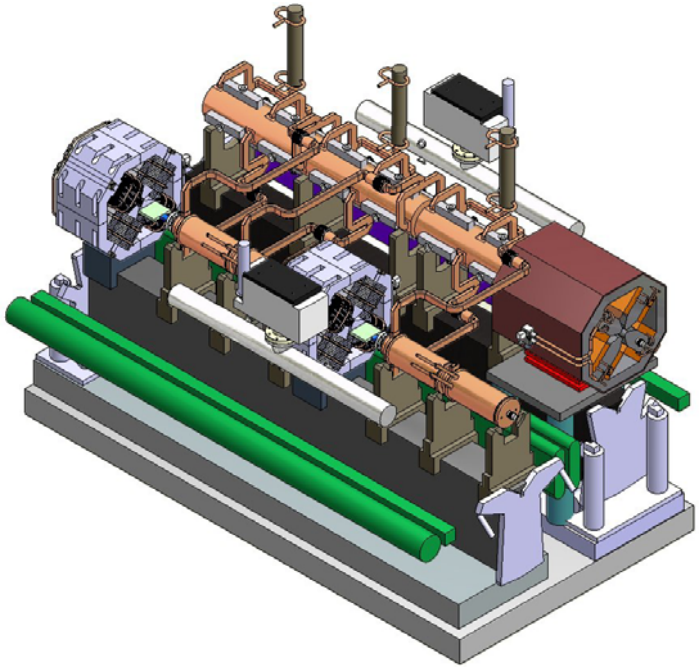


General Services

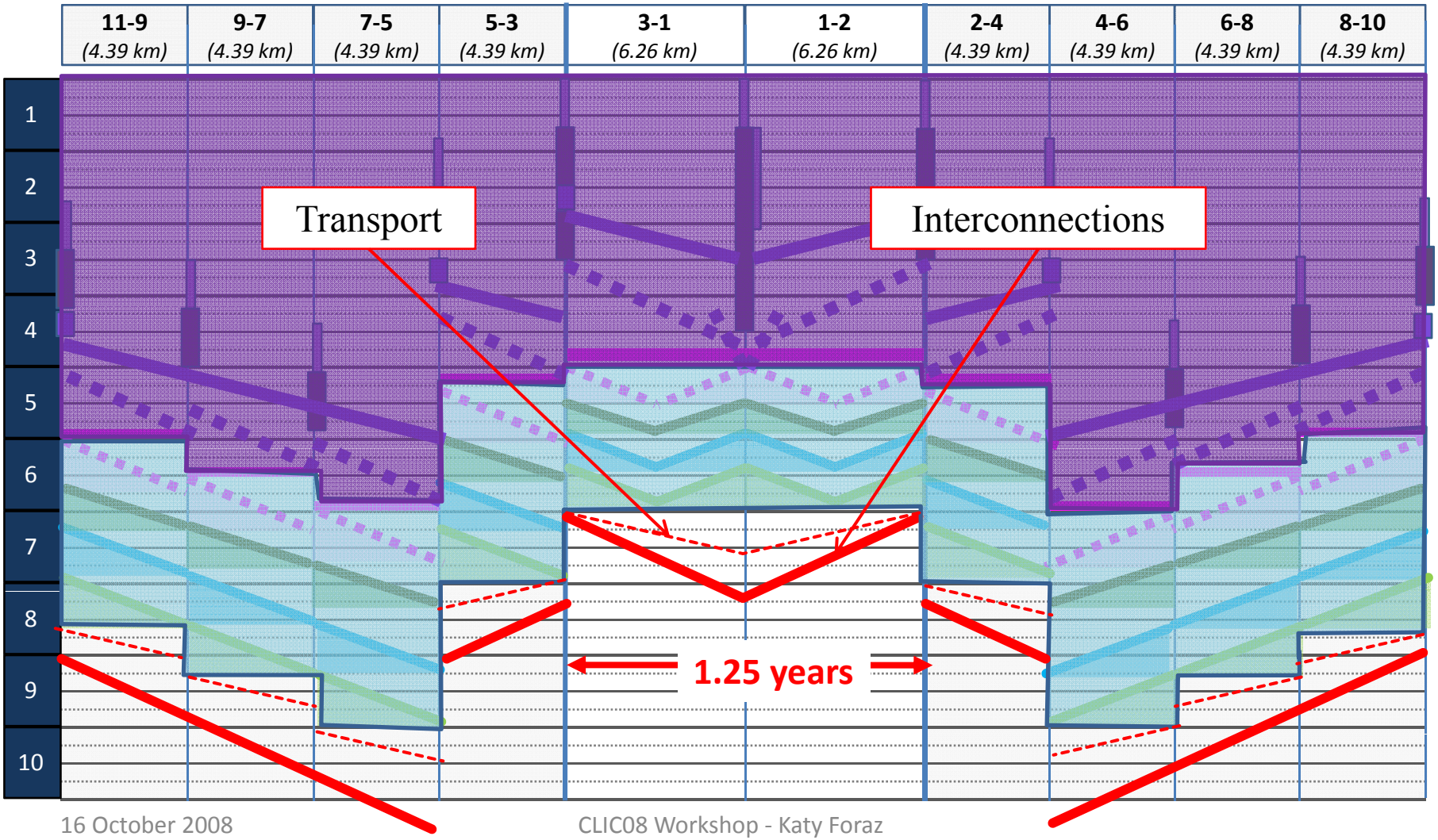


Machine installation

- Transport of machine elements: 200 modules/wk (see K. Kershaw's slides)
- Interconnections of machine elements: 100 modules /wk To be studied in detail
  - Cradle interconnection
  - Interconnection of the beam pipe for the main beam
  - Interconnection of the beam pipe for the drive beam
  - Interconnection of the tank (in case of tank configuration)
  - Connection of the cooling circuits
  - Connection of the vacuum equipment
  - Electrical connections
  - Alignment activities



Machine installation



Next steps

- Have to save ~1 year (3 months + time to place CE contracts + time for commissioning)
  - Time has to be found in each activity…. Methods will be reviewed
    - Method for marking position on floor
    - Control cables vs optical fibers
    - …
  - Co-activities constraints might be relaxed within phases

- Machine installation has to be detailed (in term of schedule)

- Caverns installation schedule