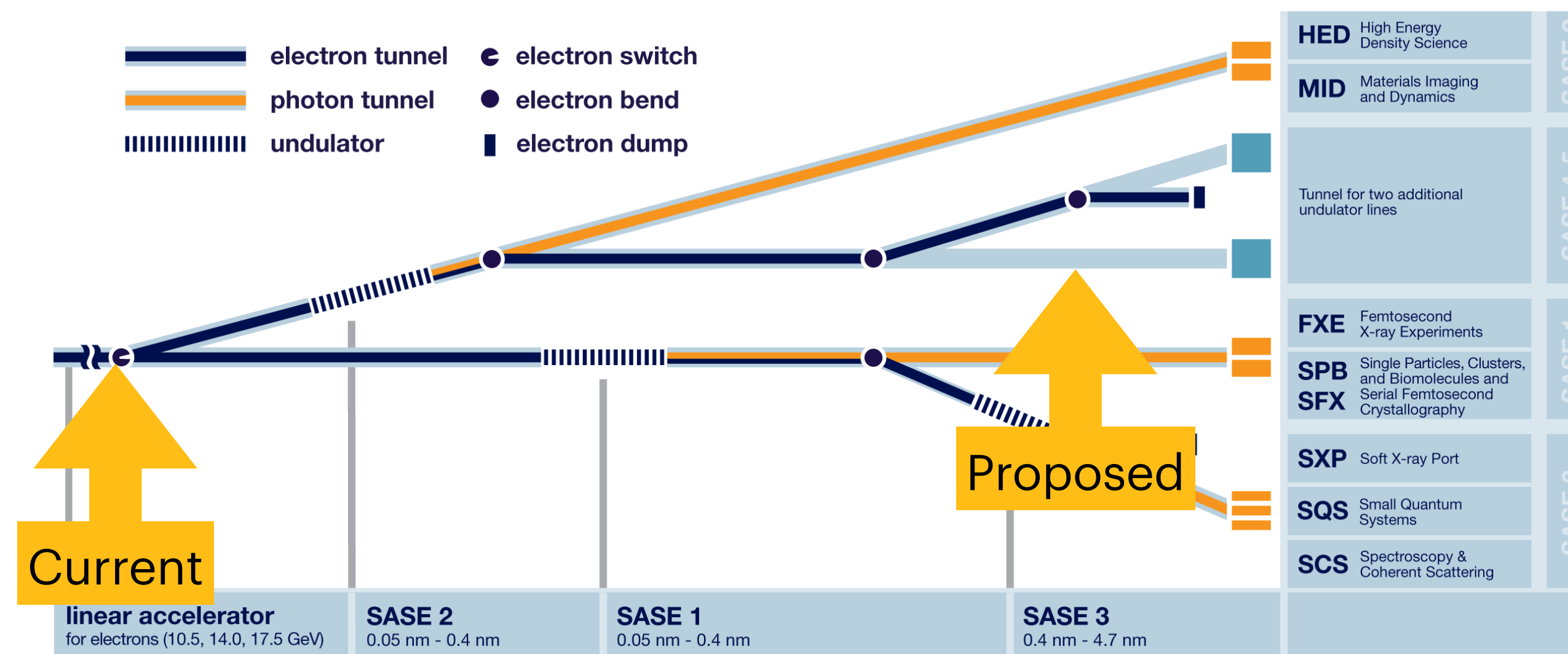


# Intro

- ◉ We're scheduled to give an update in the main meeting on April 15 - TBC (please volunteer for specific / overall talks).
- ◉ Some updates from the ELBEX effort (next slides)
  - ◉ Many implications for us
  - ◉ Looking good but not yet confirmed

# ELBEX project

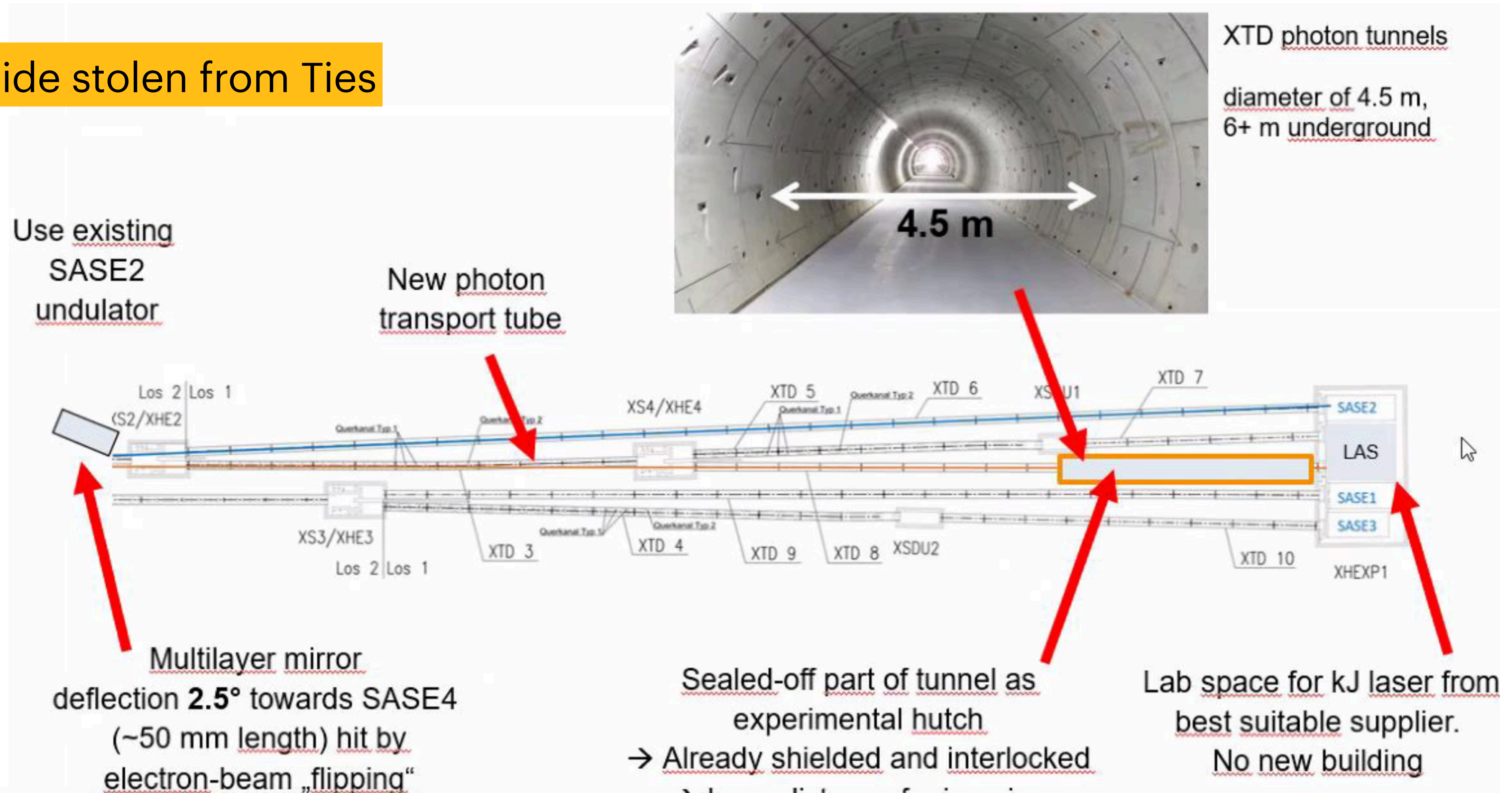
- Project is now officially going and there's a new proposal for the location: one of the (currently) empty photon tunnels
- Might be possible to access a high power laser since it is also the location of a future fusion experiment (photon beam from the XFEL + laser)
- Significantly more longitudinal space than in the XTD1 location (~70 m compared to ~25 m now)
- Access to the area is possible during XFEL operation: installation of the beamline requires a shutdown of only one photon beamlines, not the entire facility
- Not too deep underground (~6 m) - shorter path for the laser





# ELBEX project

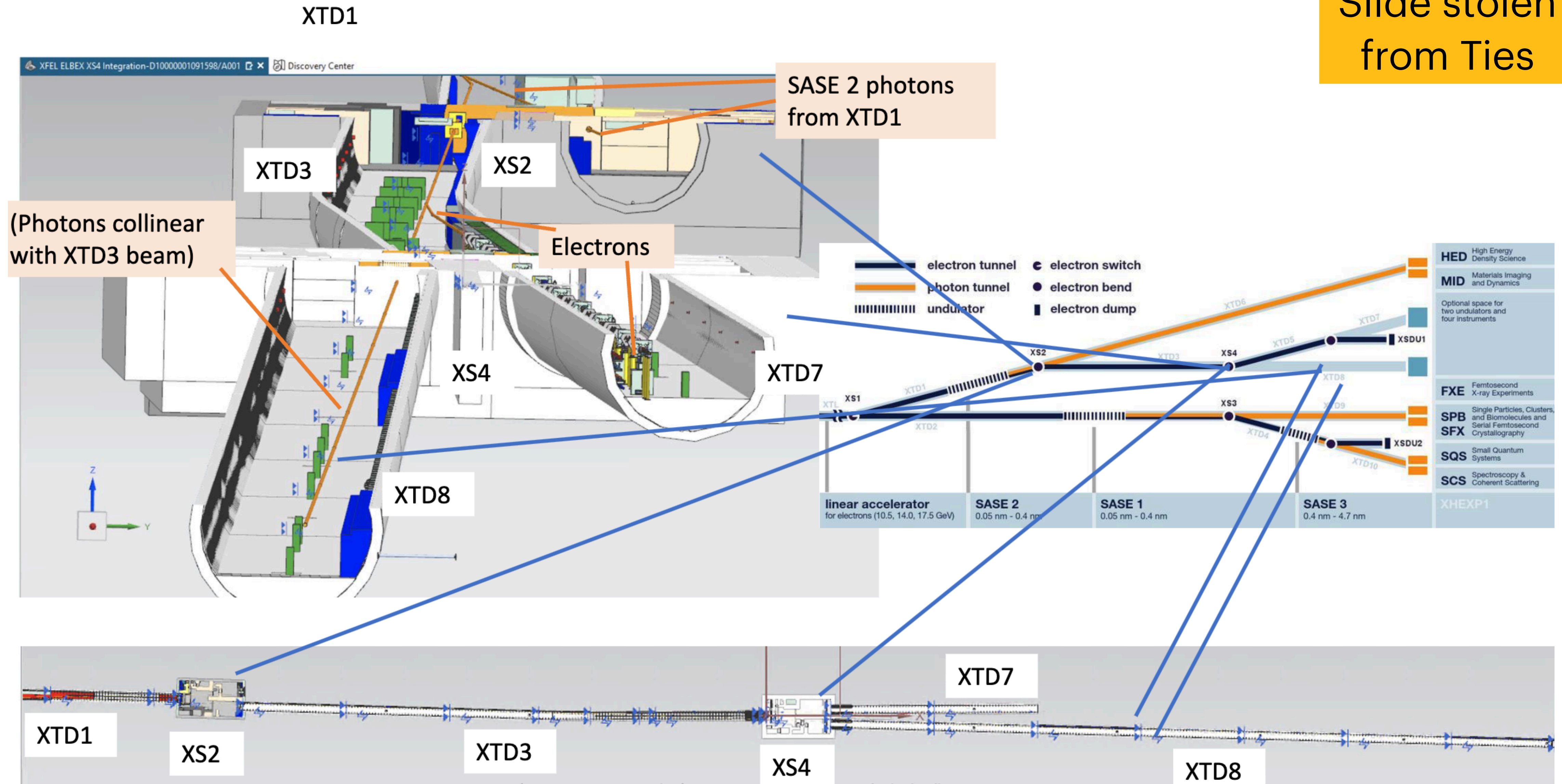
Slide stolen from Ties





# ELBEX project

Slide stolen  
from Ties





Slide stolen  
from Ties

# ELBEX project

## Tunnel space for ELBEX users

- Rough estimate how much longitudinal space would be required for ELBEX users
- 1) Plasma boosting (energy doubling) → ~50m
- 2) Testbeam (crystal extraction) → ~30m
- 3) LUXE → ~70m
- Allocate 50m for beamline services
- Total 200m for ELBEX + users → 150m of tunnel for Fusion Beamline

