

PETRA III Swedish Node In operation from Aug 2019 Entered the Swedish inventory late 2020

Proposed Agenda 28 April 2021

- Introductory round
- Discussion of current research and research possibilities
- Discussion of the PETRA III Swedish Node
- Discussion of organisation from a user perspective







Materials research eco system where synchrotron experiments are contributing to knowledge based competitive strategies









Such materials research involves in situ / in operando experiments – where only PETRA III can capture data









The PETRA III Swedish Node was specifically designed for such materials research – complementing MAX IV and ESS









Today PETRA III and its SMS beamline are key research tools for Sweden



Swedish use of PETRA III in 2019



and the Swedish Material Science beamline







CeXS contributes a user perspective and vision

Excellent research making new impacts thanks to in situ / in operando data together with AI material science modelling inputting scientific results directly into technology

Preparing for the beamline experiments Conducting experiments at the beamline

Analysing the experimental data







Conclusions for discussion

- The PETRA III Swedish Node is a relevant and necessary Swedish infrastructure that complements MAX IV and ESS
- Organisation and financing of infrastructures should consider
 - Complementarity of infrastructures
 - The research users perspectives



