

EUROPEAN SPALLATION SOURCE

Overview of the ESS DMSC

Thomas Holm Rod
- Acting Head of DMSC



ESS is a pan-European project (ESFRI & ERIC)





13 European member states

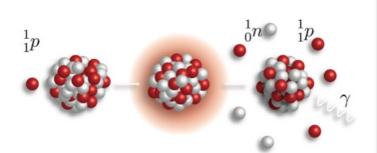
ESFRI = European Strategy Forum on Research Infrastructures

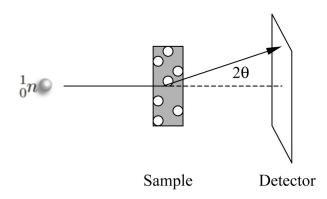
ERIC = European Research Infrastructure Consortium



ESS is a spallation neutron source

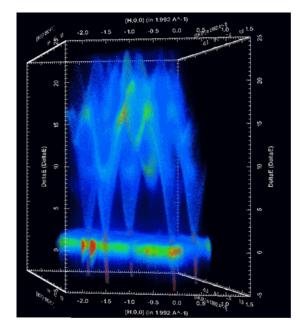




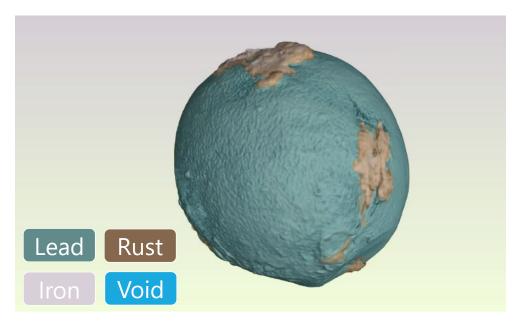




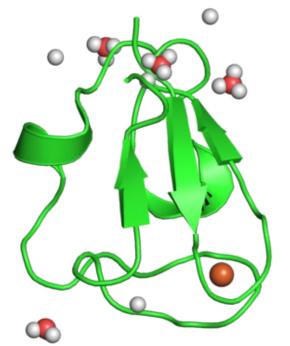
Experiments at many length and time scales

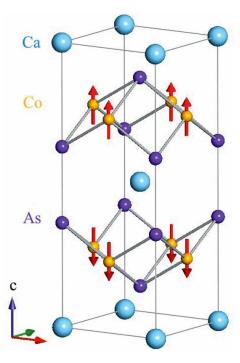






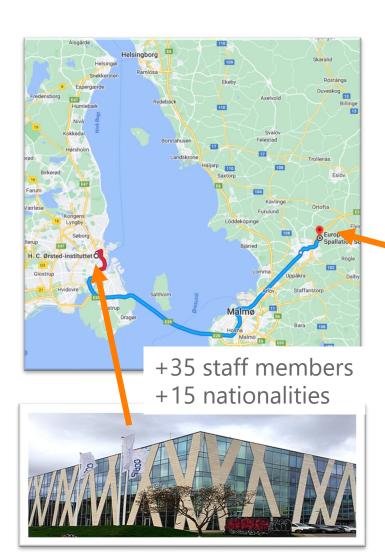
Credit: Anders Kaestner, PSI





Both Sweden and Denmark are host nations







DMSC Scope

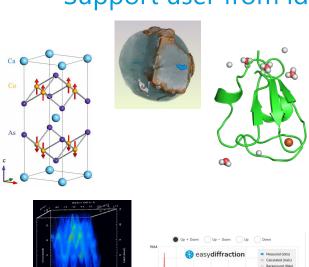


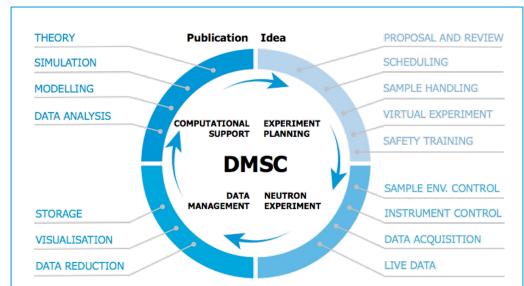


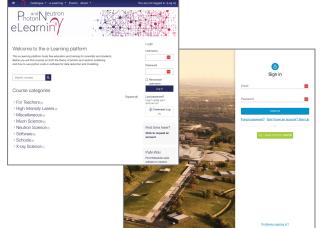
DMSC Scope for user perspective

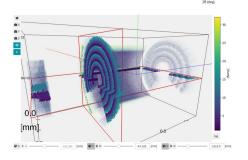


Support user from idea to publication with scientific computing tools and services

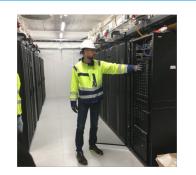


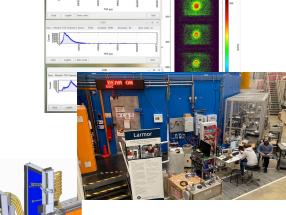












Why us?



We have many opportunities for student or other joint projects

What we do:

- ✓ Material research (soft and hard)
- ✓ Data science (ML and some AI)
- ✓ Scientific computing
- ✓ Software engineering
- ✓ Testing on real equipment
- ✓ Training

But we can also offer:

- ✓ Interface to ESS instrument teams / scientists
- ✓ Interface to rest of ESS (accelerator physics, nuclear physics, etc)
- ✓ Interface to other research infrastructures (primarily photon and neutron sources)

We welcome collaboration and student projects

Technology & Science Groups @ DMSC

ess

for supporting users with scientific computing tools and services

User office software / Proposal system

Experiment control & data acquisition

Data processing & analysis

FAIR data management

Max Morten

Mads

Max

ODN

DESIM

Technology & Science Groups @ DMSC



for supporting users with scientific computing tools and services

Greg

Instrument Data Scientists

User office software / Proposal system

Experiment control & data acquisition

Data processing & analysis

FAIR data management

Data Systems & Technologies

Brian





Questions

