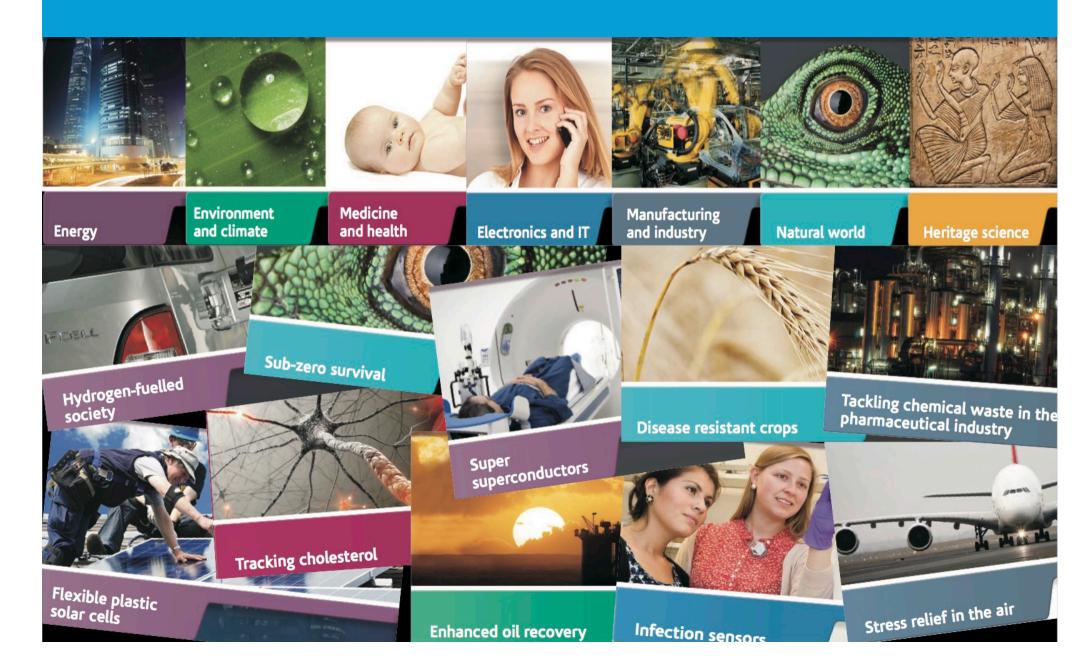


The European Spallation Source

Allen Weeks, Head of Communications, External Relations and In-kind October 2017

Neutron science



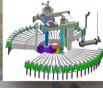


ESS High level design



EUROPEAN SPALLATION SOURCE

World Leading High Power (%MWAccelerator means more neutrons

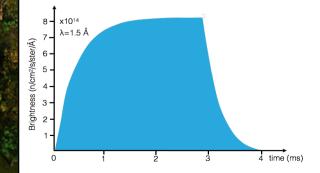


An Innovative Target Station that can host >30 instruments

High brightness and tuneable resolution makes new measurements possible

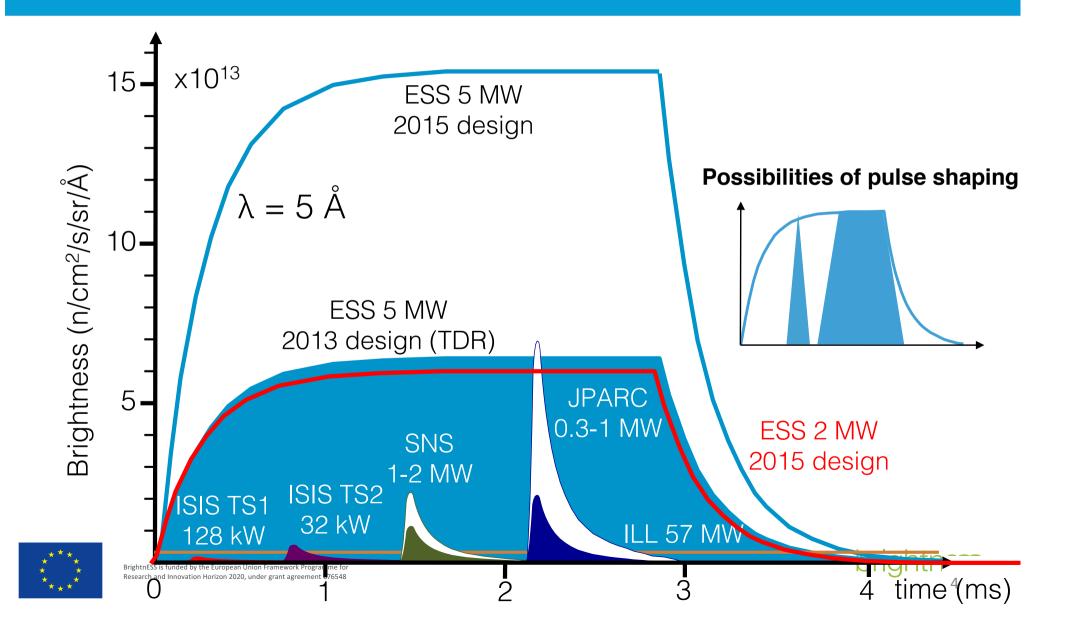
moderator delivering smaller and brighter neutron beams

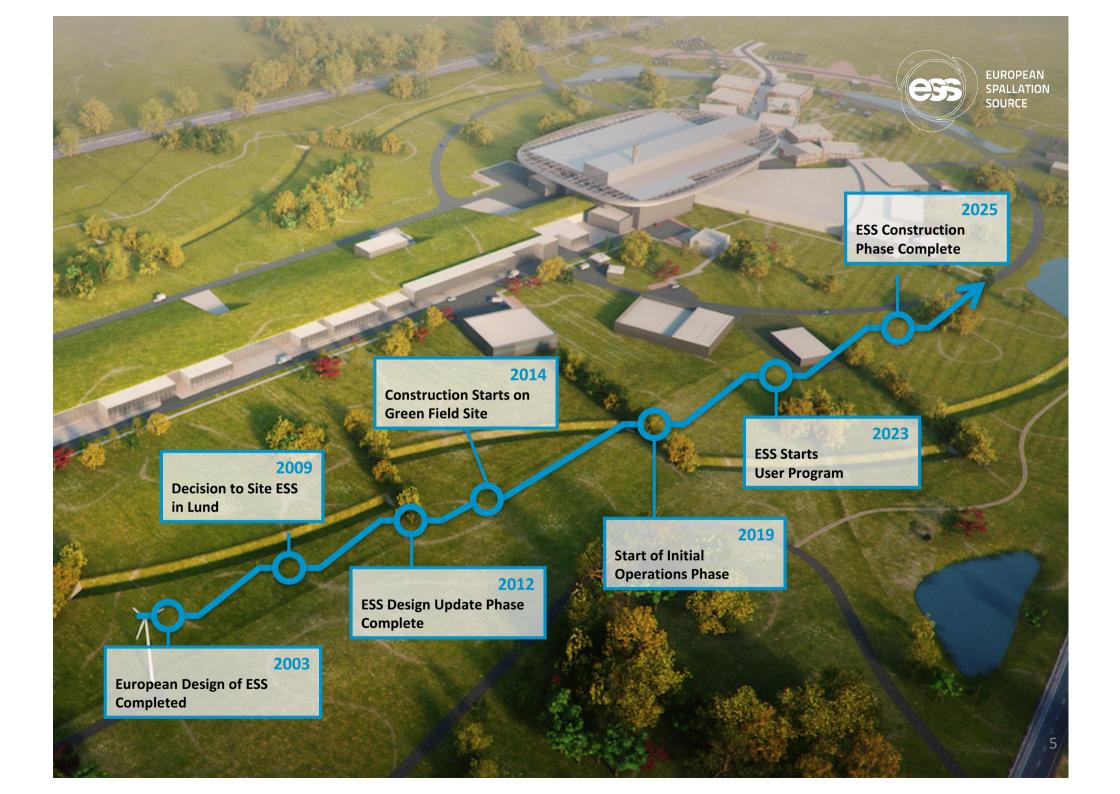




Long-pulse performance

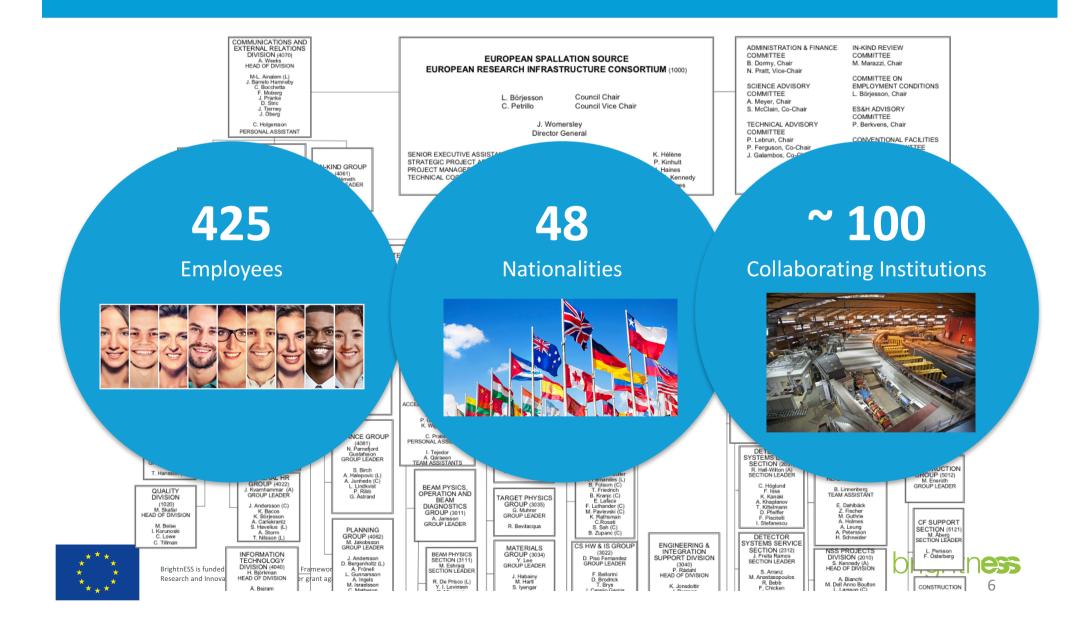






Organisation and People





Financing includes cash and deliverables



EUROPEAN SPALLATION SOURCE

The European Spallation Source ERIC established in 2015

Host Countries Sweden and Denmark

Construction 47.5%Cash Investment ~ 97%Operations15%

Non Host Member Countries

Construction 52.5% In-kind Deliverables ~ 70% Operations 85%

15 European Member and Observer Countries







ESS In-kind Partners





ISIS - Rutherford-Appleton Laboratory, Oxford Laboratoire Léon Brilouin (LLB) Lund University Nuclear Physics Institute of the ASCR Oslo University Paul Scherrer Institute (PSI) Electronic Group (PEG) e University Technical University cal University of Denmark (DTU)

MANITO



BrightnESS is funded by the European Union Framework Programme for Research and Innovation Horizon 2020, under grant agreement 676548

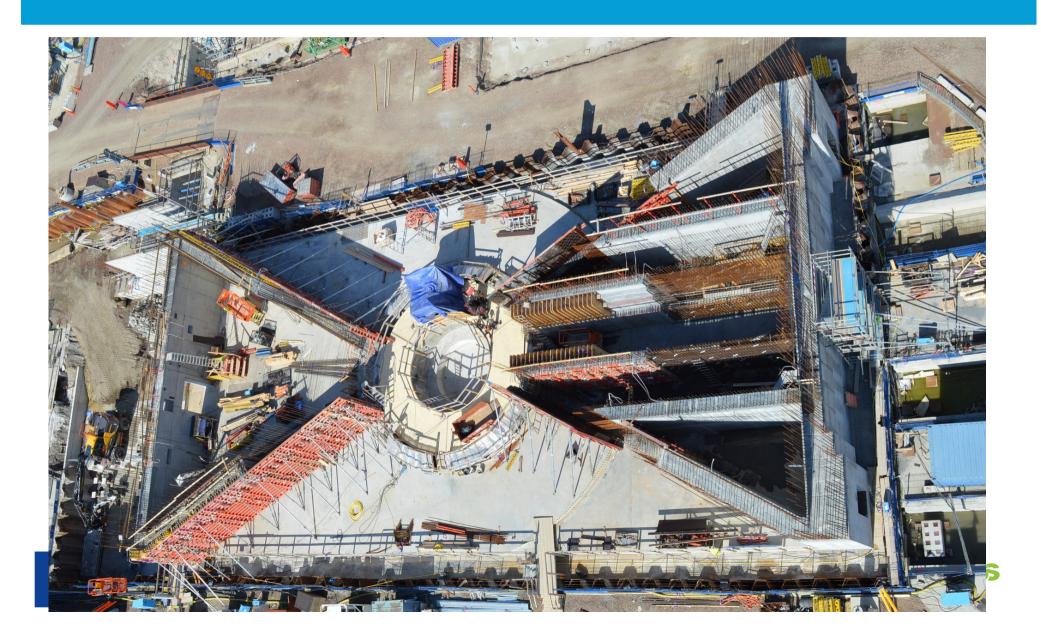
September 2017

ESS is 40% Complete at this point ...

ARCANTERES ACCASES ANTERCASES A START ACCASES ANTERNOTATION A DATA CA CASE A ANTERNOTATION A DATA CASE A ANTERNOTATION

Monolith, August 2017





Monolith



EUROPEAN SPALLATION SOURCE





11

Active Cells





Active Cells



EUROPEAN SPALLATION SOURCE

13



E-buildings, August 2017

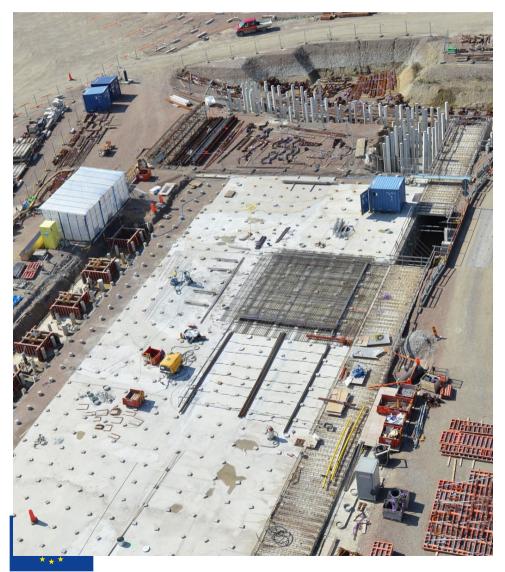






D01, base slab for Exp. Hall 1





D01 First bottom slab casting 12 September 2017



Buildings



EUROPEAN SPALLATION SOURCE





BrightnESS is funded by the European Union Framework Programme for Research and Innovation Horizon 2020, under grant agreement 676548

brightness

Green Roof, G02



EUROPEAN SPALLATION SOURCE









1**855**

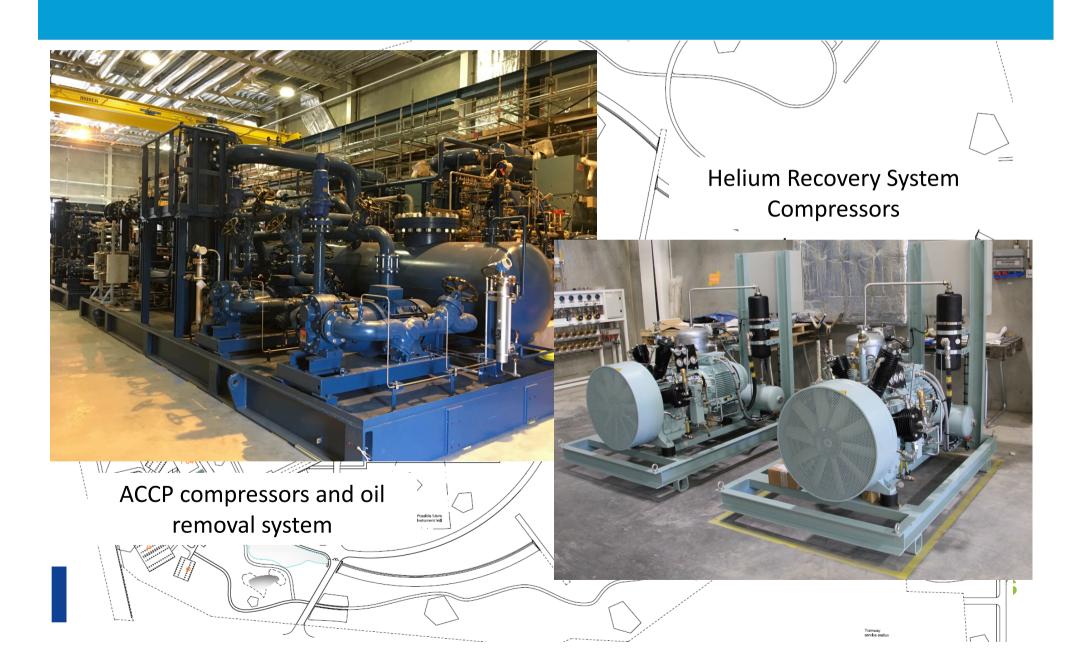
Progress on RF Test Stand 2 in G02





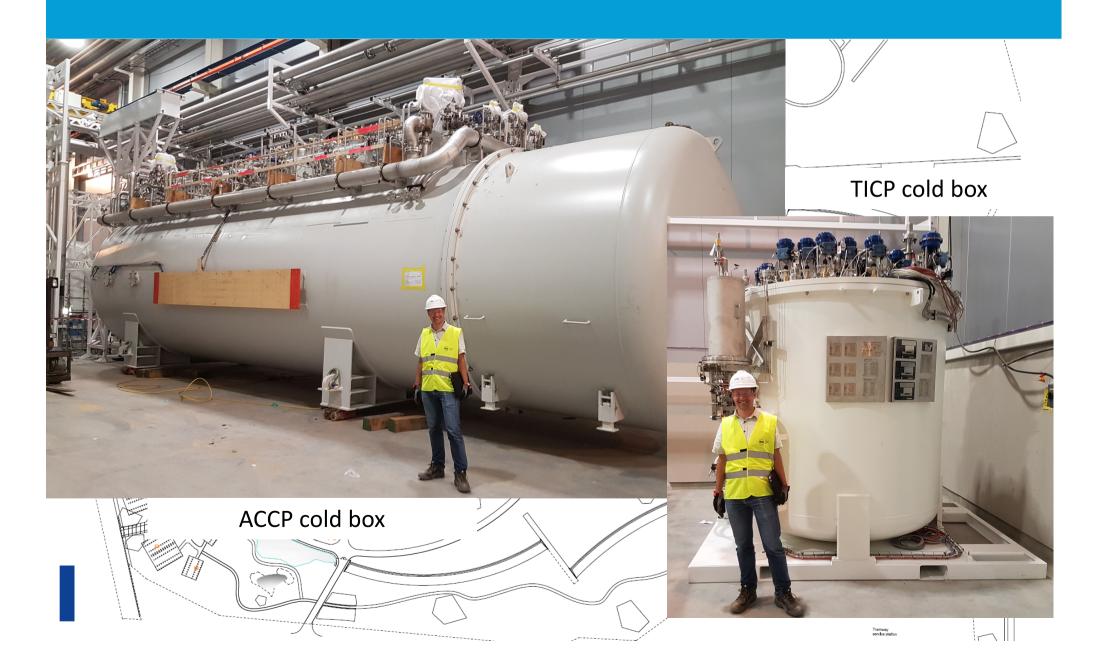
Helium Systems in G04





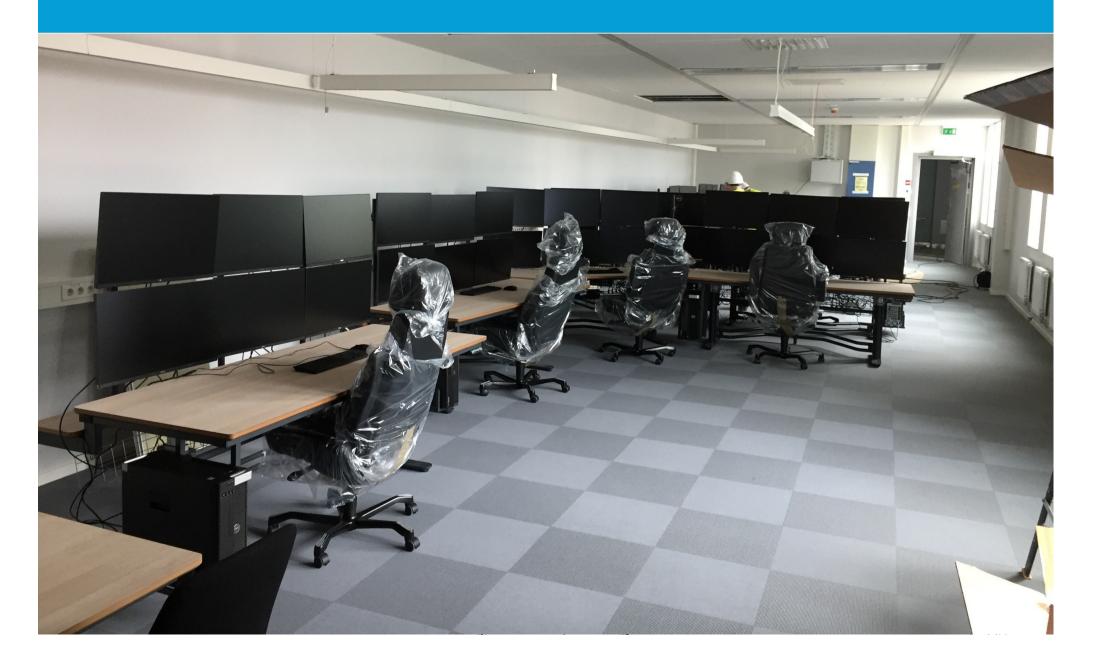
Cold Boxes in G02





Control Room Room





Embedments in Active Cell







Important next step: Ion Source and LEBT

