



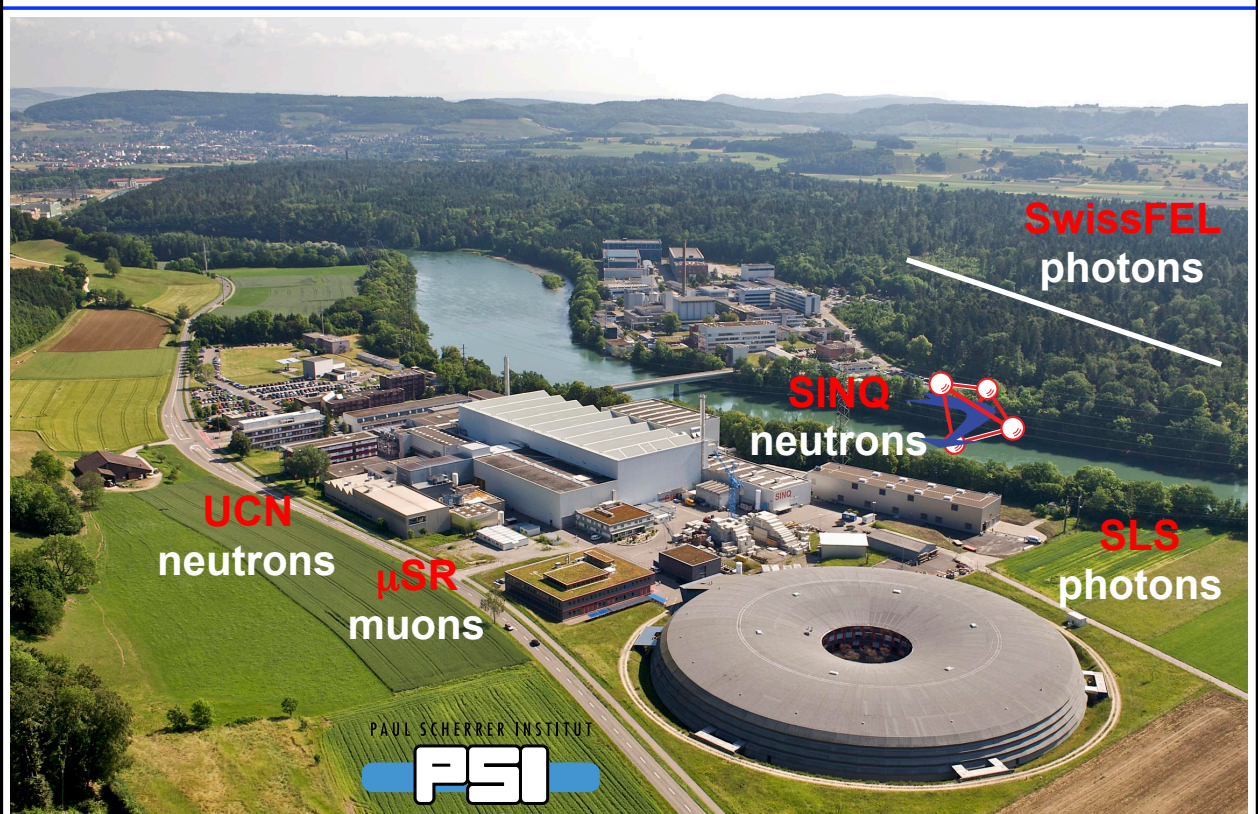
Wir schaffen Wissen – heute für morgen

ESS HEIMDAL Detector Workshop

Christian Rüegg

Laboratory for Neutron Scattering and Imaging
Paul Scherrer Institute and University of Geneva

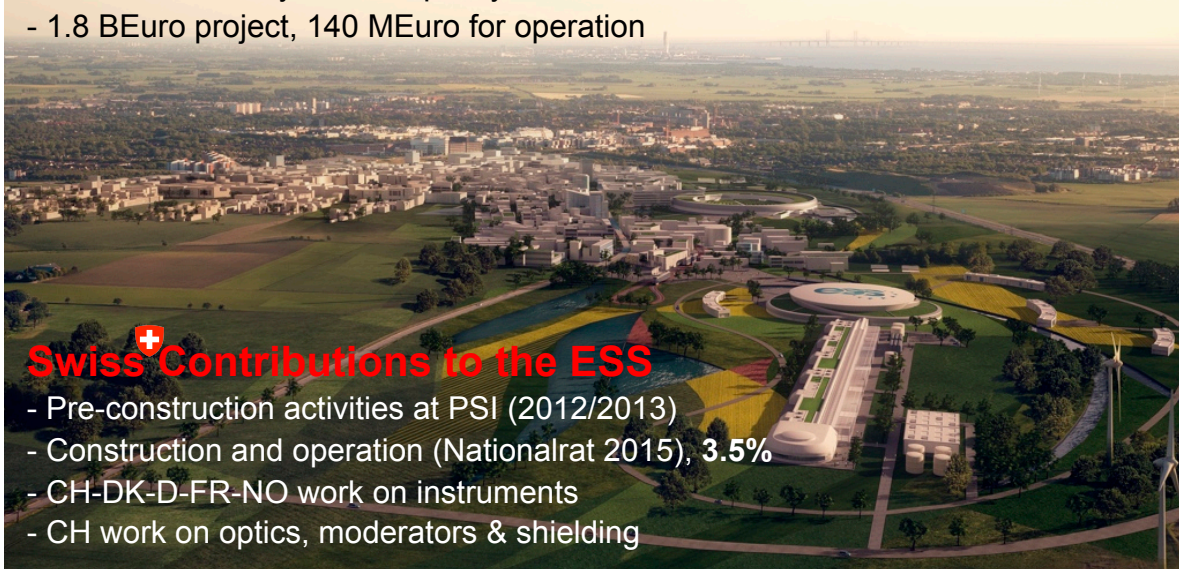
14 March 2016



European Spallation Source ESS

to be built in Lund, Sweden

- 17 European countries
- operational by 2019
- 16 instruments by 2025, capacity for more
- 1.8 BEuro project, 140 MEuro for operation



Swiss Contributions to the ESS

- Pre-construction activities at PSI (2012/2013)
- Construction and operation (Nationalrat 2015), 3.5%
- CH-DK-D-FR-NO work on instruments
- CH work on optics, moderators & shielding



CH-DK: **ESTIA**

PHASE 1 started July 2015, CH contribution 100%



DK-CH: **BIFROST**

PHASE 1 in Jan 2016, CH contribution 30-40%



DK-CH: **HEIMDAL**

PHASE 1 in Jan 2016, CH contribution 30-40%



D-CH: **ODIN**

PHASE 1 since 2014, CH contribution 30-40%



D-F-CH: **MAGIC**

SAC approved, CH contribution 10-20%



Neutron Optics, Controls, Software, etc

Continuous activity in collaboration with ESS, first WPs have started



CH-DK: ESTIA

PHASE 1 started July 2015, CH contribution 100%



Instrument team:

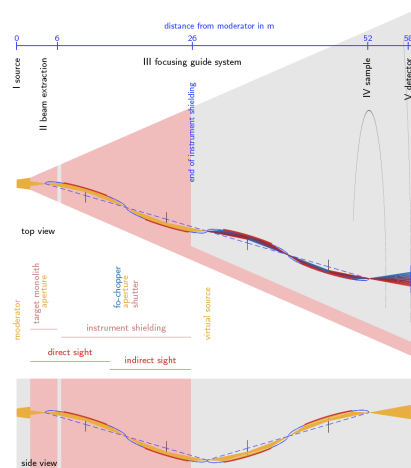
Jochen Stahn, PSI, **Instrument proposer**

Artur Glavic, PSI, **Lead scientist**

Sven Schütz, PSI, **Lead engineer**

Schedule:

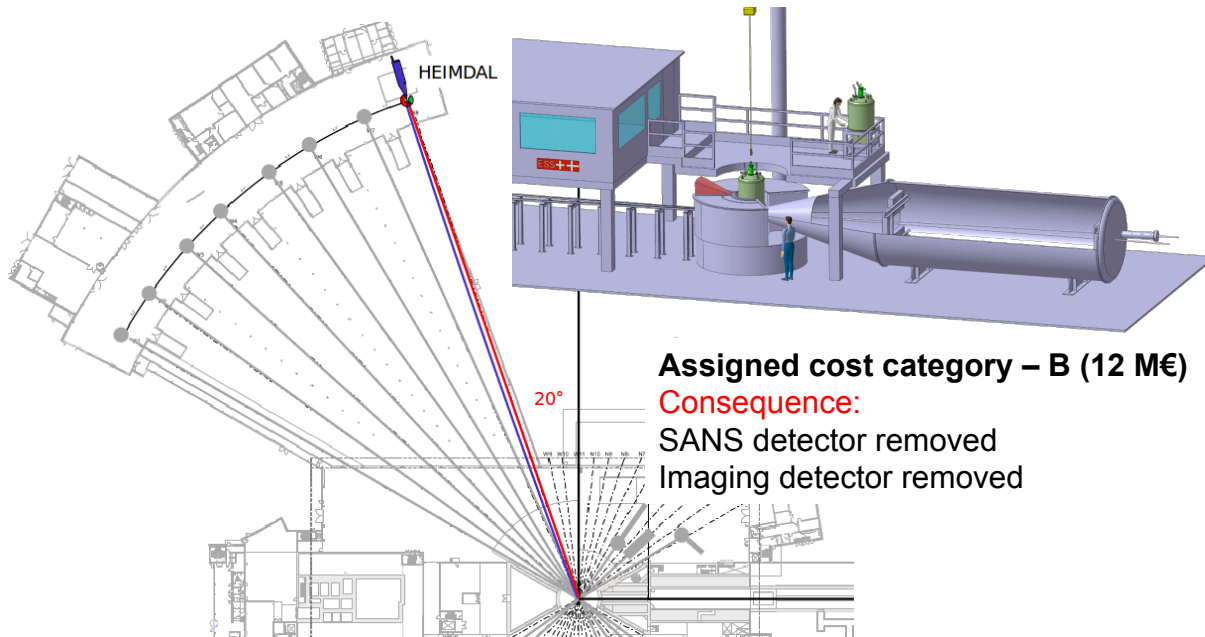
July 2015	Start Phase 1 work
Nov 2016	TG2 Review
2019	Commissioning



Ready to sign MoU and Annexes

DK-CH: HEIMDAL

PHASE 1 in Jan 2016, CH contribution 30-40%



Industry point of contact

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Scientific points of contact

Accelerator and Controls:

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Beam optics and Sample environment:

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Neutron Scattering Instruments: **ICB**

Ch. Rüegg christian.rueeg@psi.ch

Target and Moderators:

K. Thomsen knud.thomsen@psi.ch



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Application by institution/company



Swiss In-Kind Committee SIC



ESS In-Kind Committee IKRC

