

Guide-Shielding Optimisation Workshop

Ken Andersen

CPH Hilton, 12th May 2016

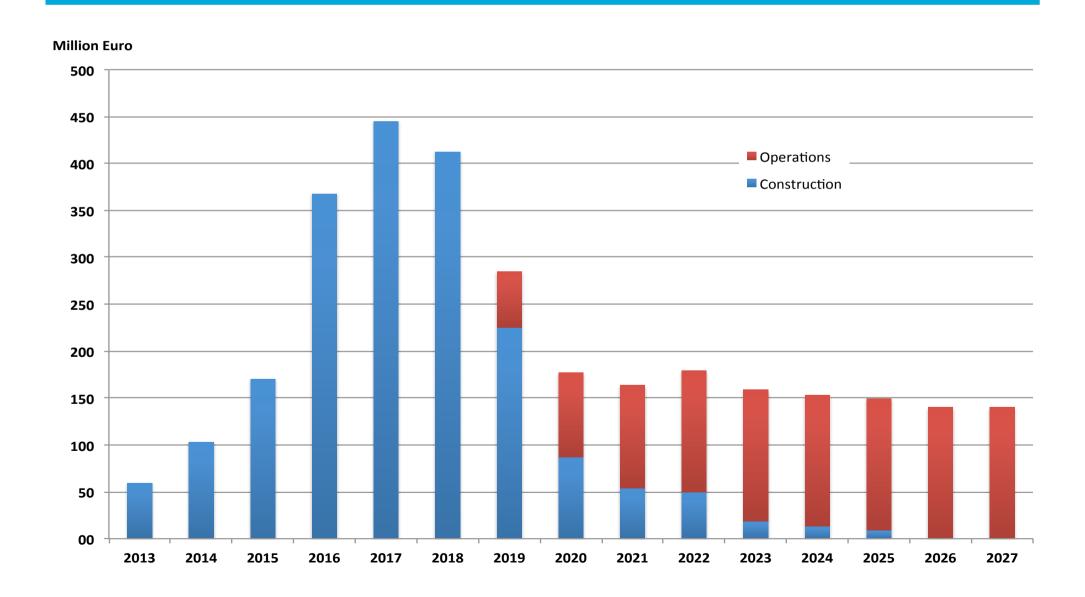


ESS Construction Progress





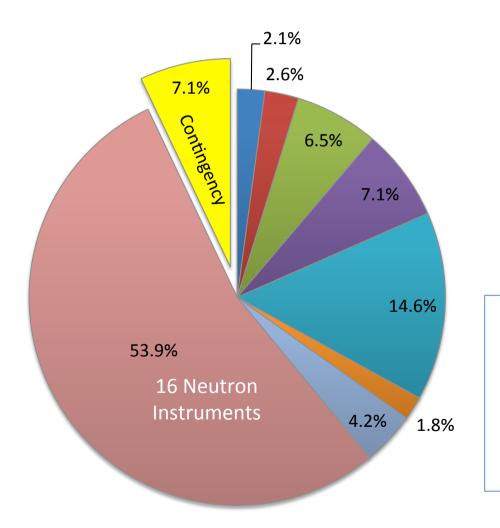
ESS Budget Planning





Neutron Scattering Systems Budget

NSS Budget March 2016: 350M€



- Directorate Mgmt
- Instrument Concepts
- Science Support Systems
- Data Mgmt (DMSC)
- Instrument Technologies
- Instrument Integration Mgmt
- Neutron Guide Bunker
- Neutron Beam Instruments
- NSS Contingency

Notes

- NSS needs contingency > 10 % of cost to complete (over instrument contingencies)
- Pressure to increase Neutron instrument component
- NSS budget to be resolved in 2016

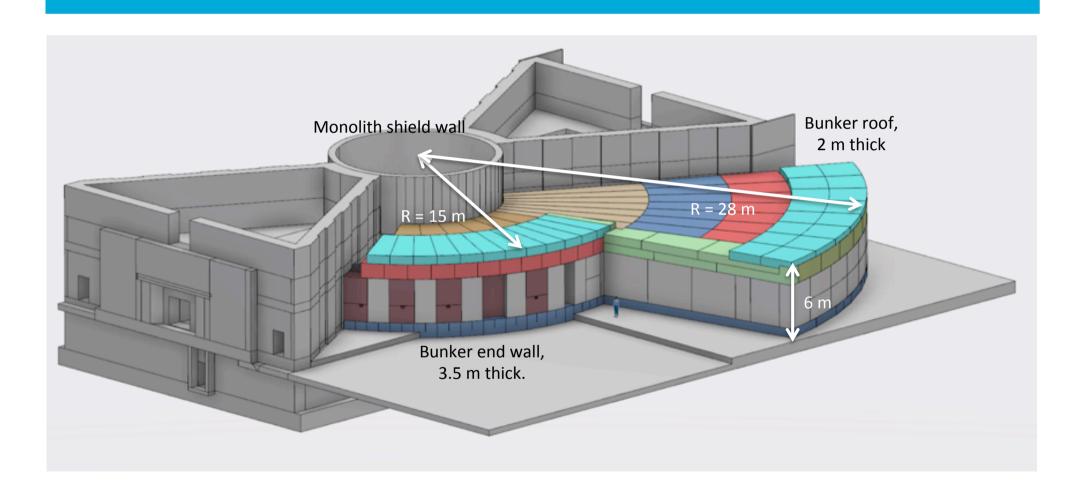


Status of Neutron Scattering Systems

- moved from instrument selection to construction
 - 15 instruments in construction
- all major in-kind partners now actively participating
- STAPs have been restructured
- beamport allocations made
- licensing application submitted
 - first step of process towards full operational license
- finalising key technical components
 - common shielding bunker
 - monolith beam extraction inserts
 - light shutters
 - civil engineering
- ramp-up of planning for operations
- Andreas Schreyer has replaced Dimitri Argyriou as Science Director
- John Womersley will replace Jim Yeck as Director General in November









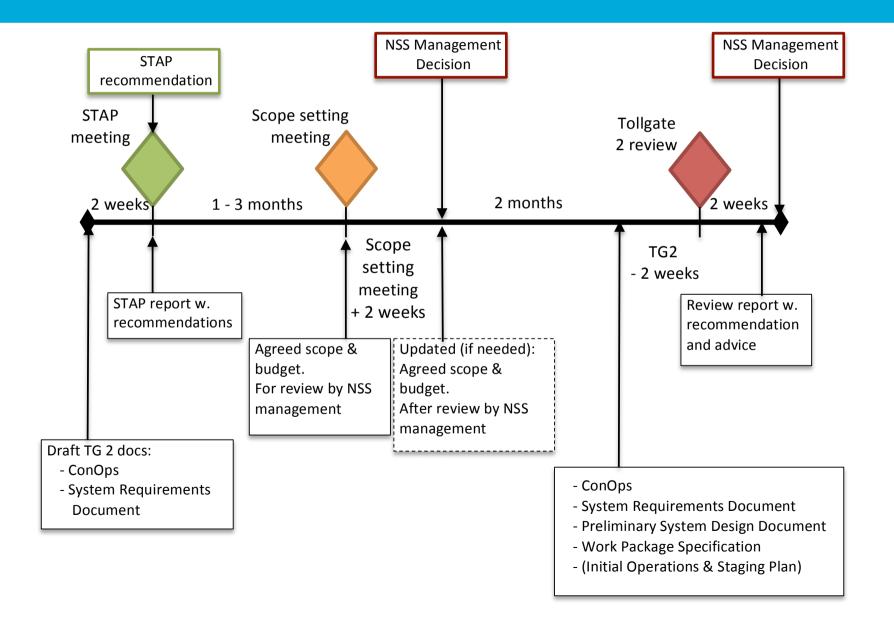
EUROPEAN SPALLATION SOURCE

Instrument Budgets

- 16-instrument budget: 188.9M€
 - sum of proposal budgets: 250M€
- day one scope < full scope
- increase budget per instrument?
 - cost savings in other parts of NSS: 1M€/instrument = 20% cut
 - (day one instruments need adequate sample environment, labs, software, detectors, etc.)
 - fewer instruments?
- minimise shielding cost
- day one version must allow early scientific success
- funding for upgrades will be included in initial operations budget



TG2 Summary



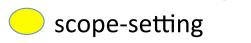


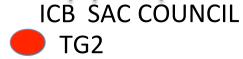
Scope-Setting Meeting

- Prepare costing information for up to 3 instrument configurations
 - 1: within cost category (9/12/15M€) minus 10% contingency
 - 2: configuration 2 (optional)
 - 3: configuration 3 (optional)
- For each configuration, present:
 - degree of achieving requirements and impact on science case
 - upgradeability through staging plan
- At end of meeting: determine minimum scope & budget
- Revisit after all scope-setting meetings

2016-17	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
LOKI	10/5											
SKADI	10	20										
ESTIA		14-15/6	20									
FREIA		14-1										
NMX												
MAGIC		9,										
HEIMDAL		22-23/6										
DREAM		2										
BEER		17/6										
ODIN		41										
C-SPEC												
BIFROST					6/							
MIRACLES					12-13/							
T-REX					7							
VESPA												
	IKON11 ICB SAC COUNCIL											

STAP





Thank You!

