



The European Spallation Source

John Womersley, Director General

February 2018



Outline

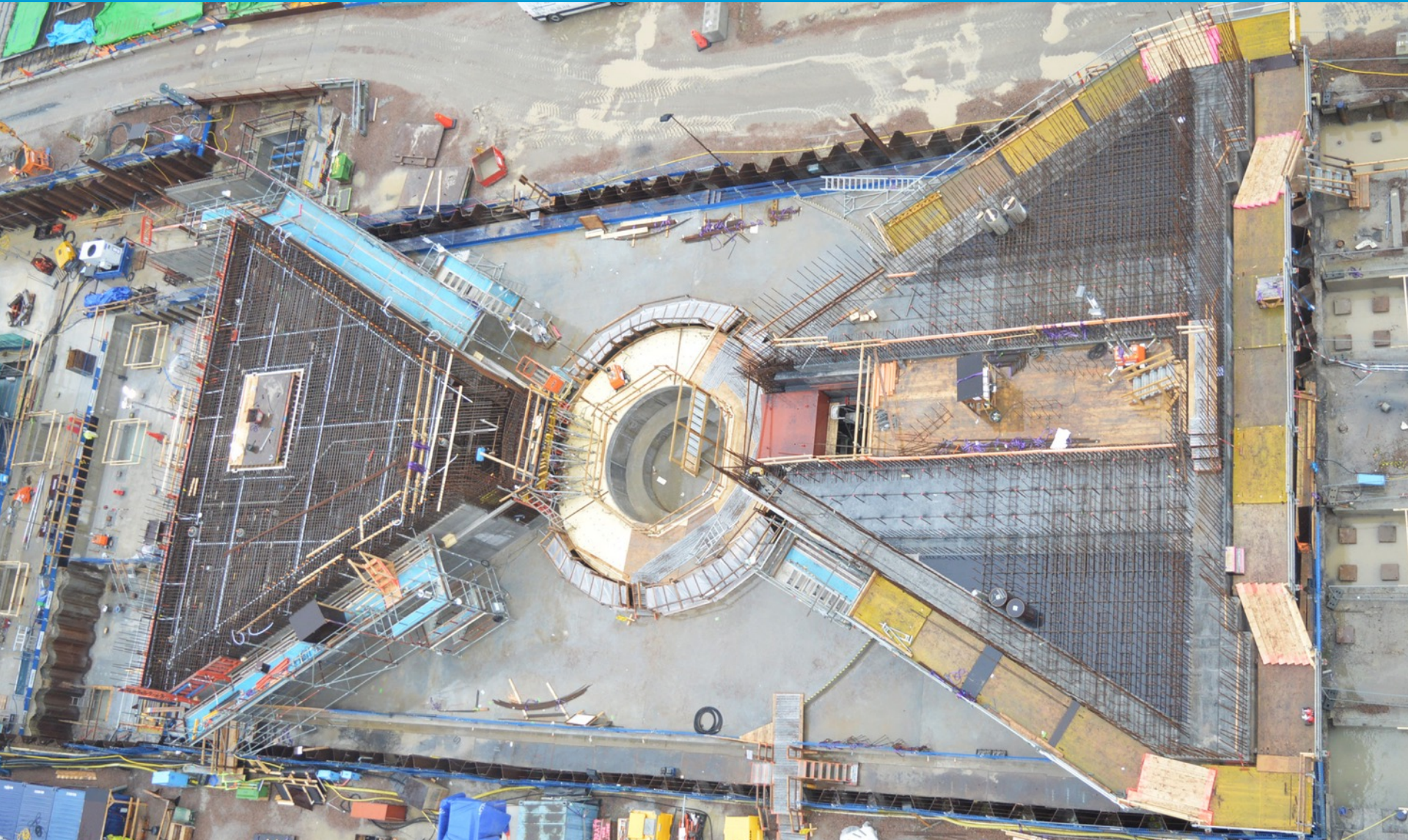
- Status update
- Organisation of installation
- Progress towards rebaselining
- Goals for 2018
- Funding for completion of construction and initial operations





Status Update

Target Monolith



Active Cells



E-buildings (long instrument halls)



Move to Construction Site

Permanent
Office
Campus

- Will sign construction and financing agreements this week
- Cost of the lease is included in the operations costs

Current Skanska + ESS offices

New 2018 ESS offices
for all staff

Lund Tramway Depot

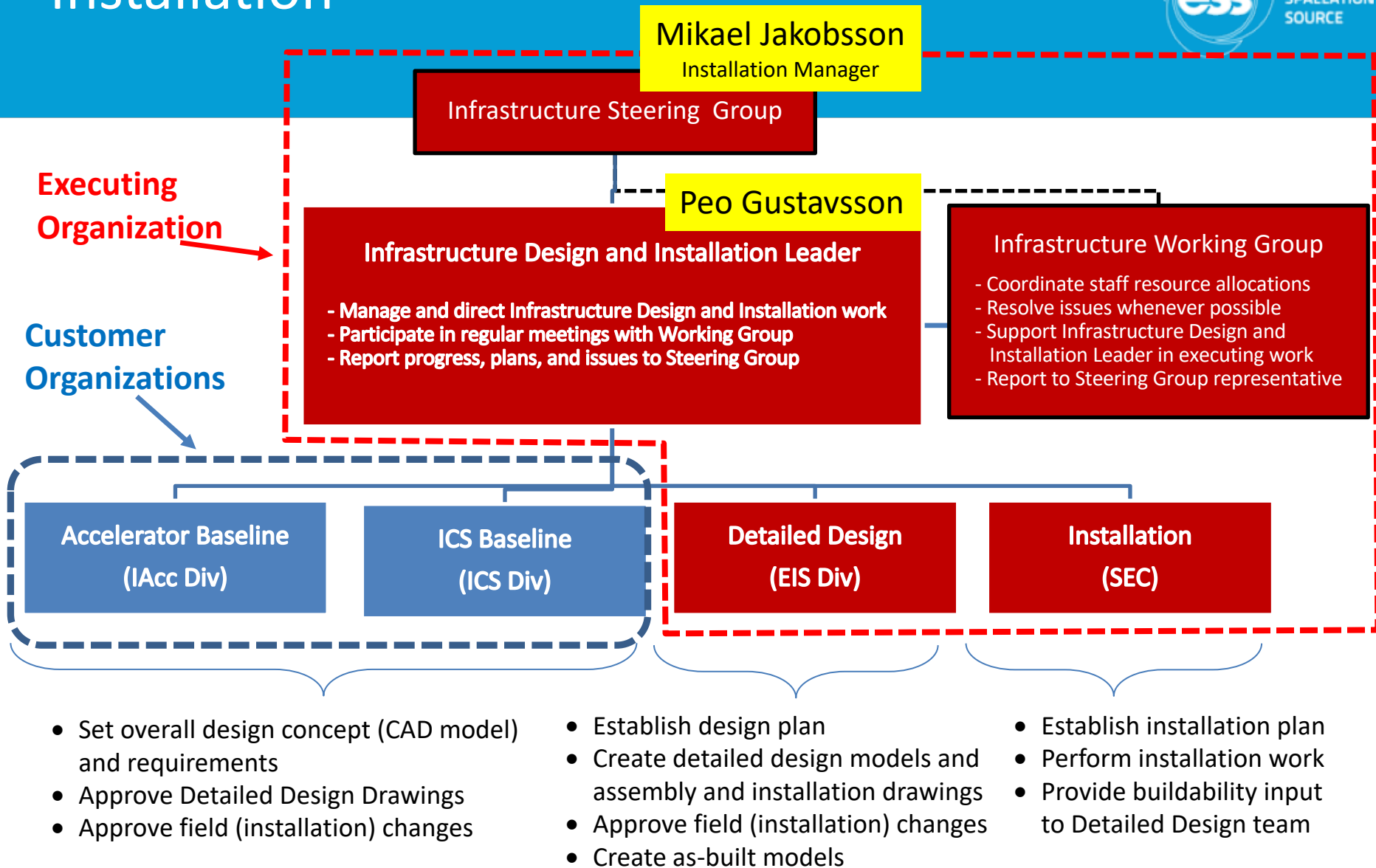
Ion Source Delivery December 2017



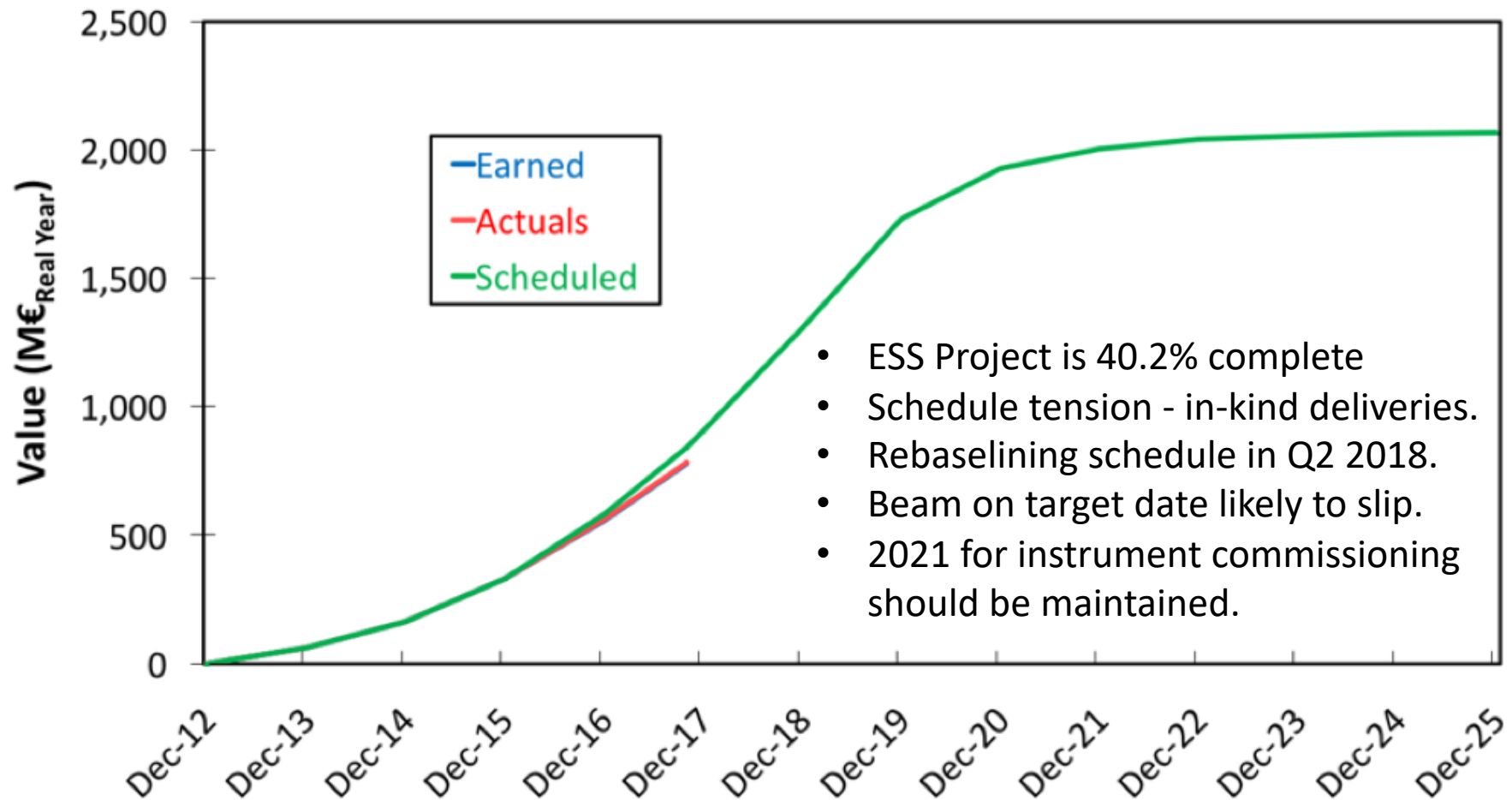
Front End Building Installation work



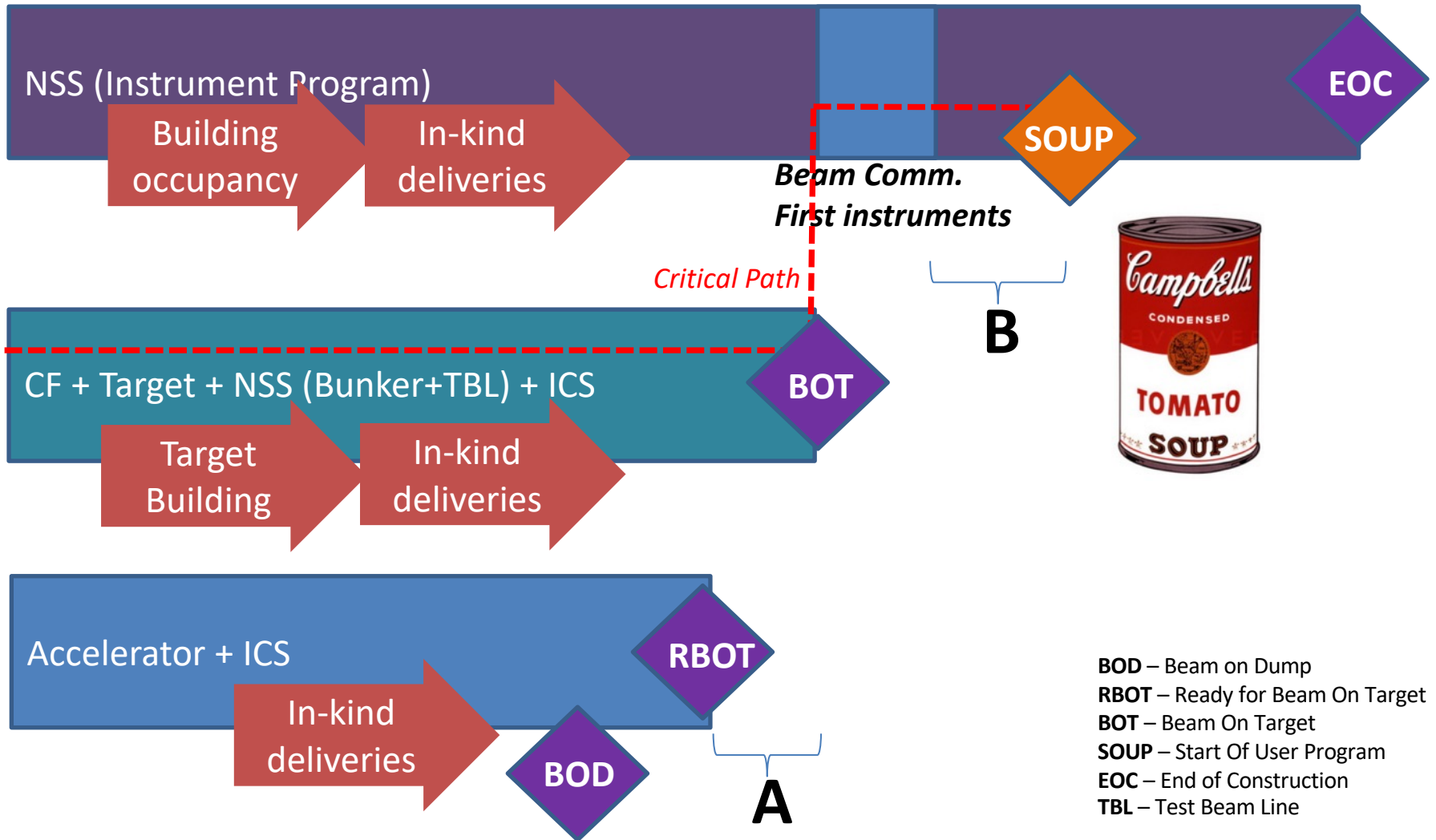
Installation



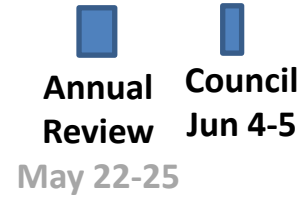
ESS schedule



Rebaselining Schedule



Rebaselining Schedule



Review material Published May 9

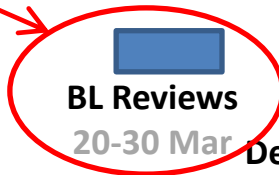
New BL Implemented in P6 Apr 29

EMT/DG Decision on new BL Apr 18

CCB Decision on new BL Apr 12

- In-depth reviews needed before CCB approval
- J. Haines will define process and arrange for reviews; EMT will be invited to participate

Today



Replanning, installation planning, integration etc 30 Mar

Goals and action plan for 2018 - 1



ESS project

- Construction > 50% complete in December
- A detailed plan for first two years (2019 & 2020) of Initial Operations ready end of 2018
- Secured funding for completion of construction and initial operations funding
- Detailed plan and new working processes for integrated installation following lessons learned in Front End building

Conventional Facilities

- All in-situ concrete works for target building D02 ready (doesn't mean target building is ready)
- All E buildings weather tight

Accelerator

- Start of commissioning of ion source and LEBT
- Test Stand 2 ready for testing cryomodules
- RFQ installed and ready for conditioning

Goals and action plan for 2018 - 2



Target

- complete manufacturing and Factory Acceptance Tests of Moderator plug, Cryo-Moderator System and Cryoplant.
- Delivery of Helium Compressor on site.

Integrated Control Systems

- temporary control room operational for the needs of accelerator commissioning.

Instruments

- All instruments have started Tollgate 3 process and begun procurement

Project Support & Administration

- Establish Campus project including financing
- Staff plan for the Initial operations phase
- Move ESS Lund organisation to site, incl up and running infrastructure
- Clarify and actively work towards solving remaining issues related to VAT as well as tax issues on seconded and in-kind staff.

Goals and action plan for 2018 - 3

ESH&Q

- Submit to SSM the application for the trial operations of the Warm Linac

Communications

- Strategic communication plan developed by new Head of Communications – and endorsed by Council by end December

High level planning

- Revised schedule baseline for the ESS construction/initial ops that is deliverable but minimises delays to start of user operations (with external review in May)
- Agreement with Council on modified milestones for construction and initial ops.
- Establish sustainable plan and funding for Completion of Construction secured in December
- Initial ops budget 2019 and 2020 secured in June
- General scheme ops 2021 - 2025 agreed with Council in December at the latest

Goals and action plan for 2018 - 4

ESS membership

- Secure Spain as an ERIC member
- Reach preliminary agreement with Canada on the way forward
- Open discussion with one more country with an indicative route towards an agreement with ESS

Strengthened ESS position in the European Science and innovation landscape

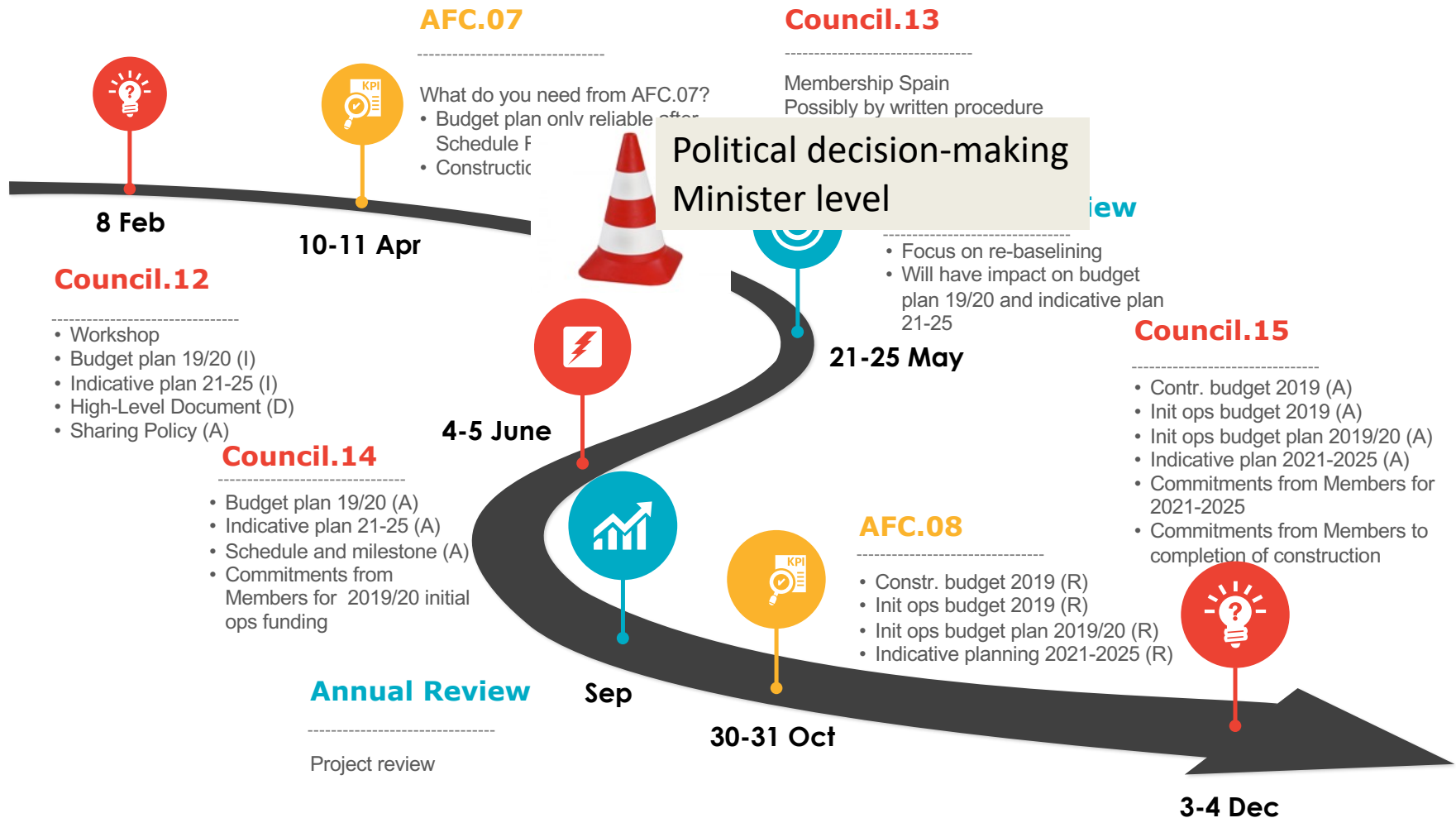
- Joint user meeting with the ILL
- Take an active role in the preparation of the FP9.
- Detailed planning together with ILL to establish a neutron initiative (like “LEAPS”) that is recognised by the commission in their planning for the FP9

ESS Council December 2017

- Council were informed at the meeting about the financial status of the project and took note of the challenges that have arisen.
- These are related to the impact of new construction requirements covering radiation safety and an increased attention to security.
- Council thanked management for the large amount of work done in evaluating the impact of these issues.
- Council agreed to continue to address these challenges with a goal of resolving them by the end of 2018.
- Council also discussed the initial operations funding for the facility, which will start in 2019 as foreseen.



ESS Council Strategy workshop February 2018



Thank you!

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@essneutron

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