



EUROPEAN
SPALLATION
SOURCE

STAP role and 2015 Proposals

Ken Andersen

SXD STAP Meeting
29 October 2014

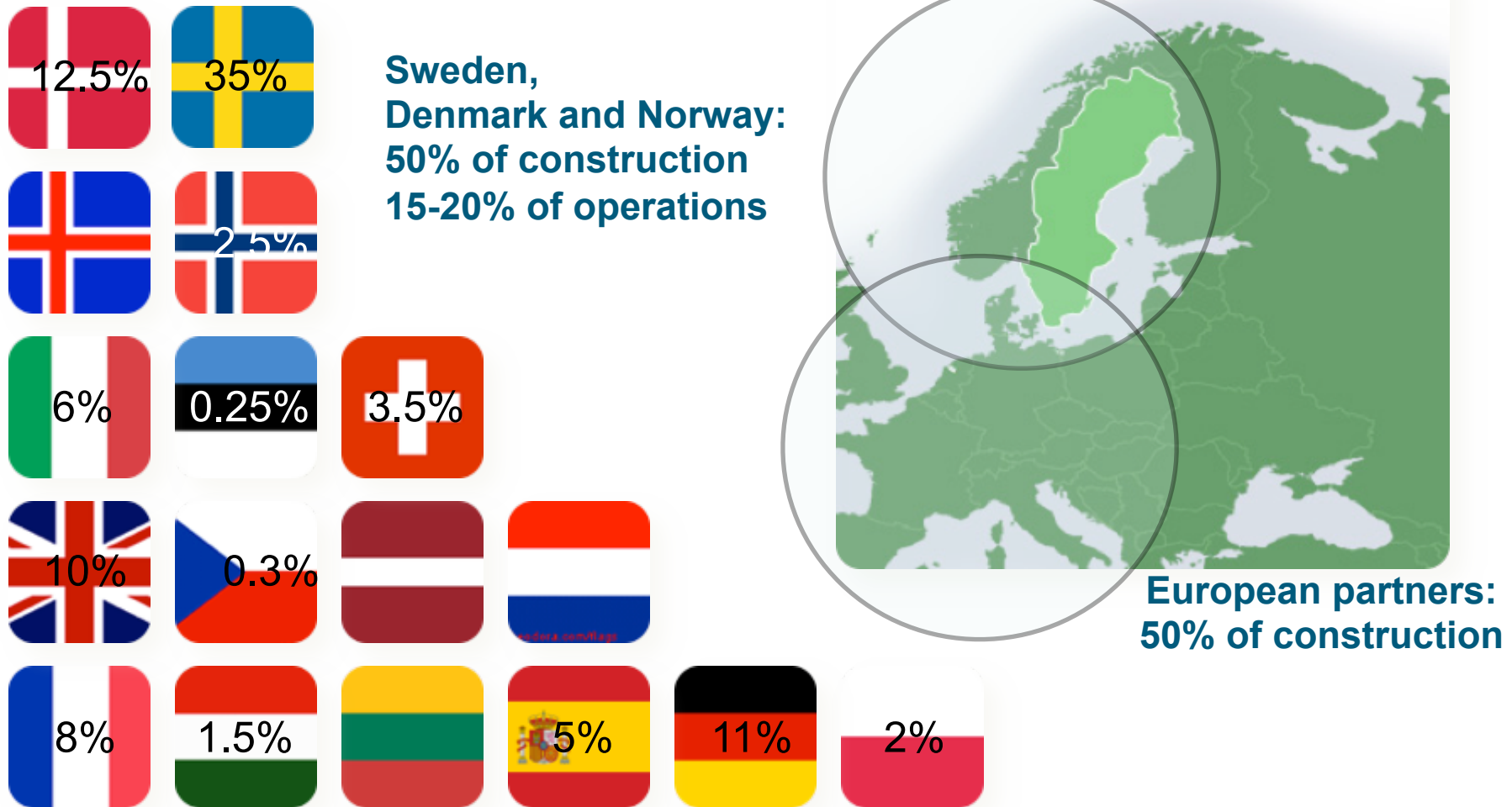
Construction has started!



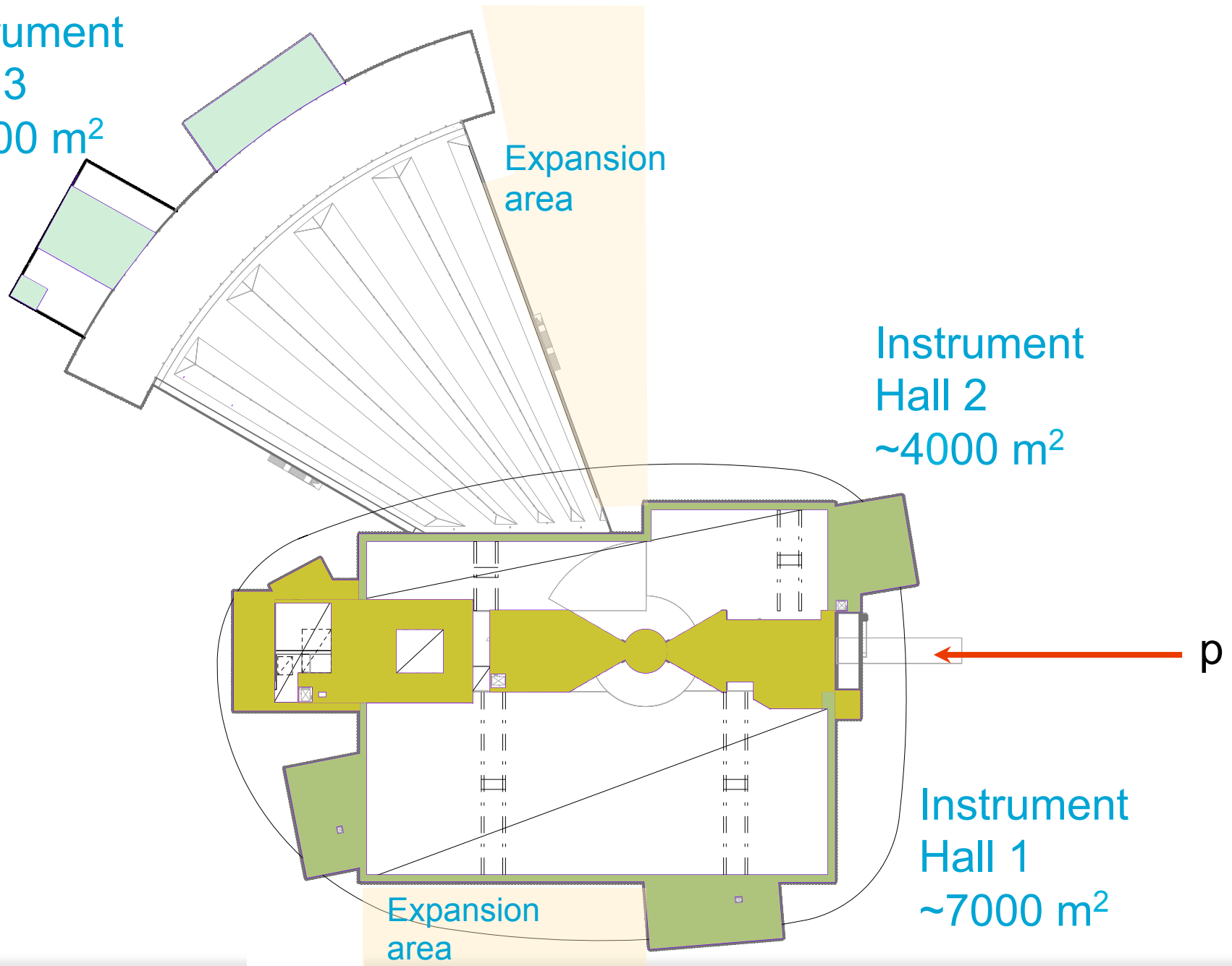
Foundation Stone Ceremony 9/10



Funding has been secured



Instrument
Hall 3
~5000 m²



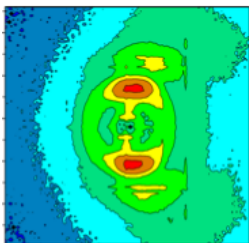
Instrument
Hall 2
~4000 m²

Instrument
Hall 1
~7000 m²

p

4 Instrument Proposals in 2012-13 Round

SANS

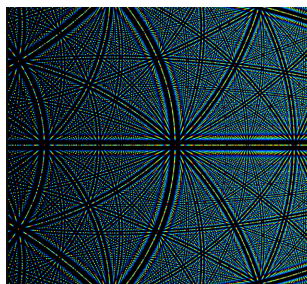


LOKI
Compact SANS



Broadband SANS
Bio-SANS

Macromolecular Diffraction

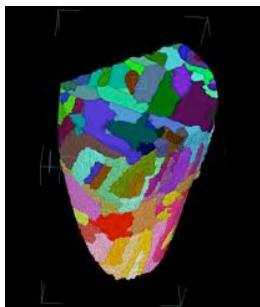


NMX



Macromolecular Crystallography

Imaging & Radiography



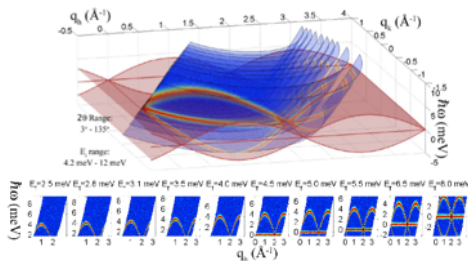
ODIN



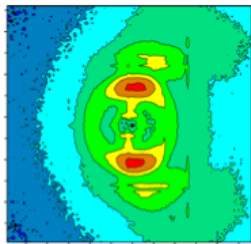
Multi-Purpose Imaging

16 Instrument Proposals in 2013-14 Round

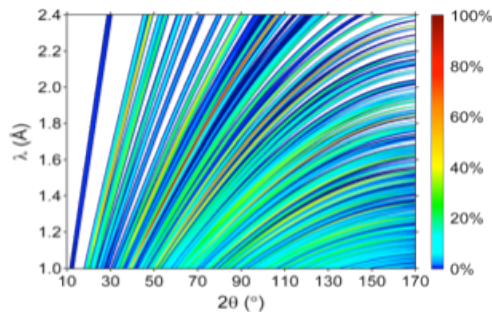
Spectroscopy



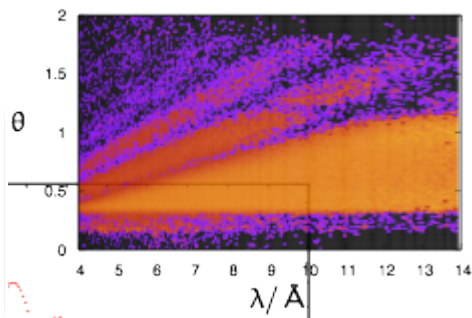
SANS



Diffraction



Reflectometry



VOR
T-REX
C-SPEC
Tempus Fugit
CAMEA
ESSENSE



Wide Bandwidth Spectrometer
Bi-Spectral Spectrometer
Cold Chopper Spectrometer
Time-Focusing Spectrometer
Indirect Geometry Spectrometer
Spin Echo Spectrometer

SKADI
Sleipnir



High Intensity SANS
SANS Biology & Materials Science

BEER
HOD
HEIMDAL
DREAM



Engineering Diffractometer
Monochromatic Diffractometer
Thermal Powder Diffractometer
Bi-Spectral Powder Diffractometer

FREIA
THOR
Veritas
ESTIA



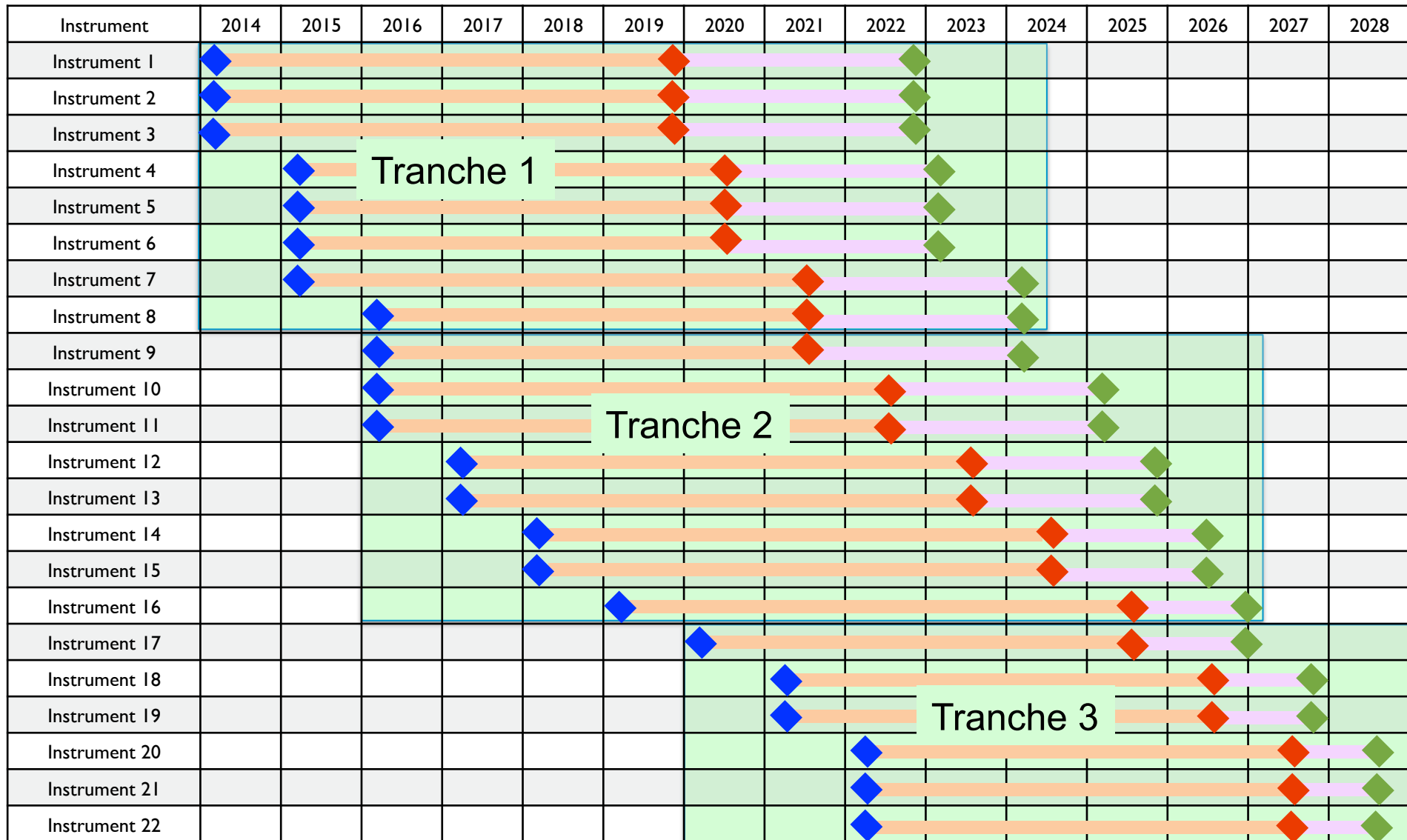
Reflectometer for liquid interfaces
Horizontal Reflectometer
Polarised Reflectometer
Focusing Reflectometer

	SANS	Reflectometry	Macromolecular & Single Crystal Diffraction	Powder Diffraction	Materials & Engineering Diffraction	Imaging	Direct Geometry Spectroscopy	Indirect Geometry Spectroscopy	Spin Echo Spectroscopy	Fundamental & Particle Physics
Accepted	LOKI ✓		NMX ✓			ODIN ✓				
2013-14	Sleipnir	THOR		DREAM	BEER		C-SPEC	CAMEA	ESSENSE	
	SKADI	VERITAS		HEIMDAL			VOR			
		ESTIA		HOD			T-REX			
		FREIA					Tempus Fugit			

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	SKADI ✓	VERITAS		HEIMDAL ✓			VOR ✓			
		ESTIA ✓		HOD			T-REX			
		FREIA ✓					Tempus Fugit			

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	SKADI ✓	VERITAS		HEIMDAL ✓			VOR ✓			
		ESTIA ✓		HOD			T-REX			
		FREIA ✓					Tempus Fugit			
2014-15		VERITAS	MagSXD	HOD			T-REX	Backscattering MIRACLES	ESSENSE	Fundam. Physics
				High-P Diffract.			Tempus Fugit	Vibrational Spectroscopy	Resonant / MIEZE NSE	UCN beamline
Future		Surface Scatter.			Irradiation	High-Int. Imaging	Thermal ChopSpec	Q-TAS Farm		n-nbar
										Through tube
Add-ons	VSANS / GISANS	Larmor Labeling		Larmor Labeling		Larmor Labeling				
	Larmor Labeling									

From Instrument Construction to User Programme

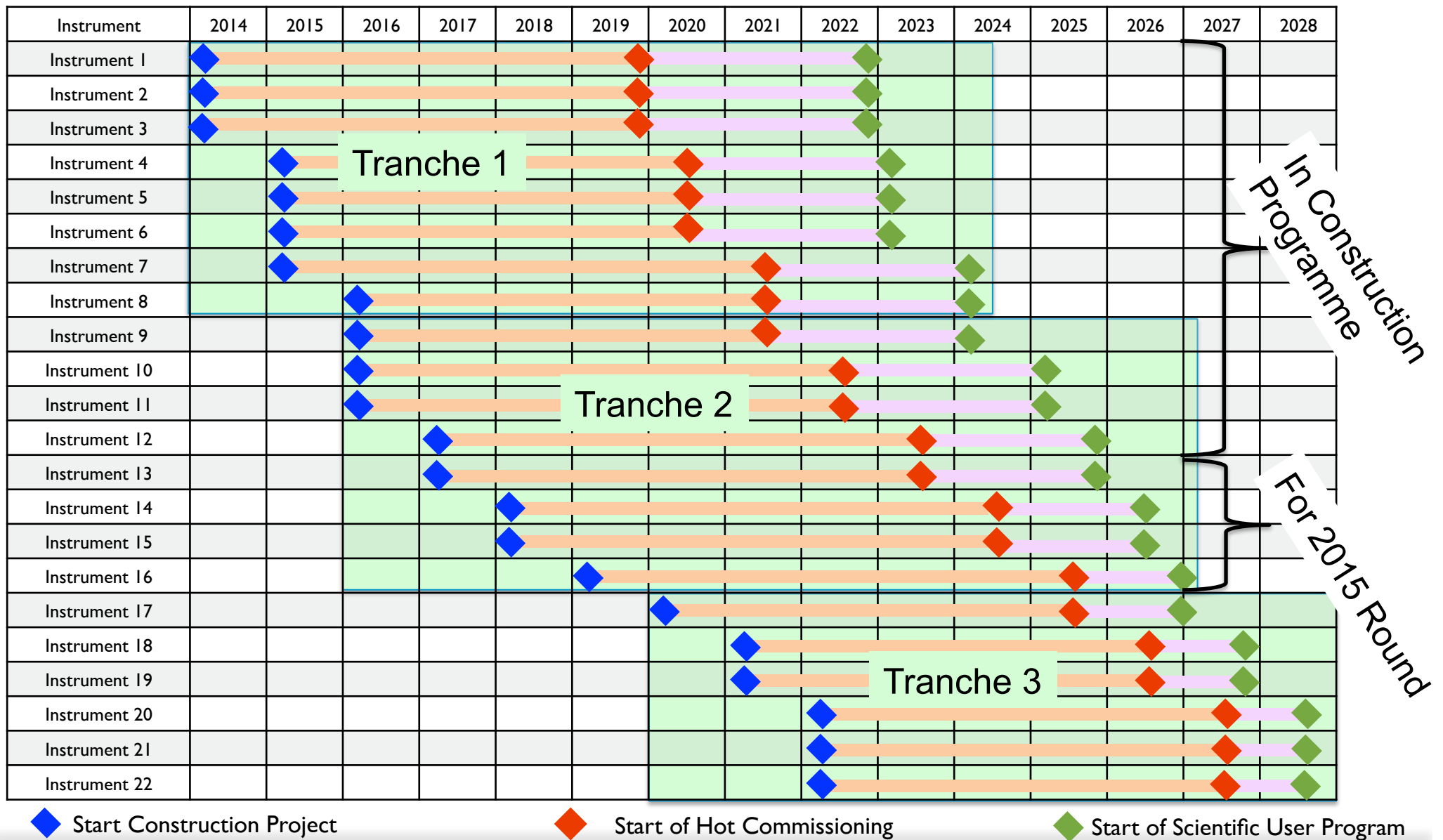


◆ Start Construction Project

◆ Start of Hot Commissioning

◆ Start of Scientific User Program

From Instrument Construction to User Programme



The 2015 Instrument Proposal Round

- 2015: Competing for places in Tranche 2
 - 4 places remaining
 - recommendations also made for Tranche 3
- No proposal rounds in 2016-2018
- Tranche 3 instruments chosen in 2019
 - include recommended proposals from 2012-15 rounds
 - additional targeted proposals
- Proposal Review by STAPs and SAC
 - STAP and SAC recommendations
- Recommendation by ESS management
- Decision by Steering Committee

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2012-14 STAPs

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2012-14 STAPs

2015 STAPs

STAP membership

This meeting

- advise on Magic proposal

Oleg Petrenko (chair)

Tom Fennell

Oksana Zaharko

Javier Campo

Andrew Wildes

Paul Attfield

Laurent Chapon

February meeting

- review all diffraction proposals

Paul Attfield (chair)

Laurent Chapon

Oleg Petrenko

Tom Fennell

Oksana Zaharko

Javier Campo

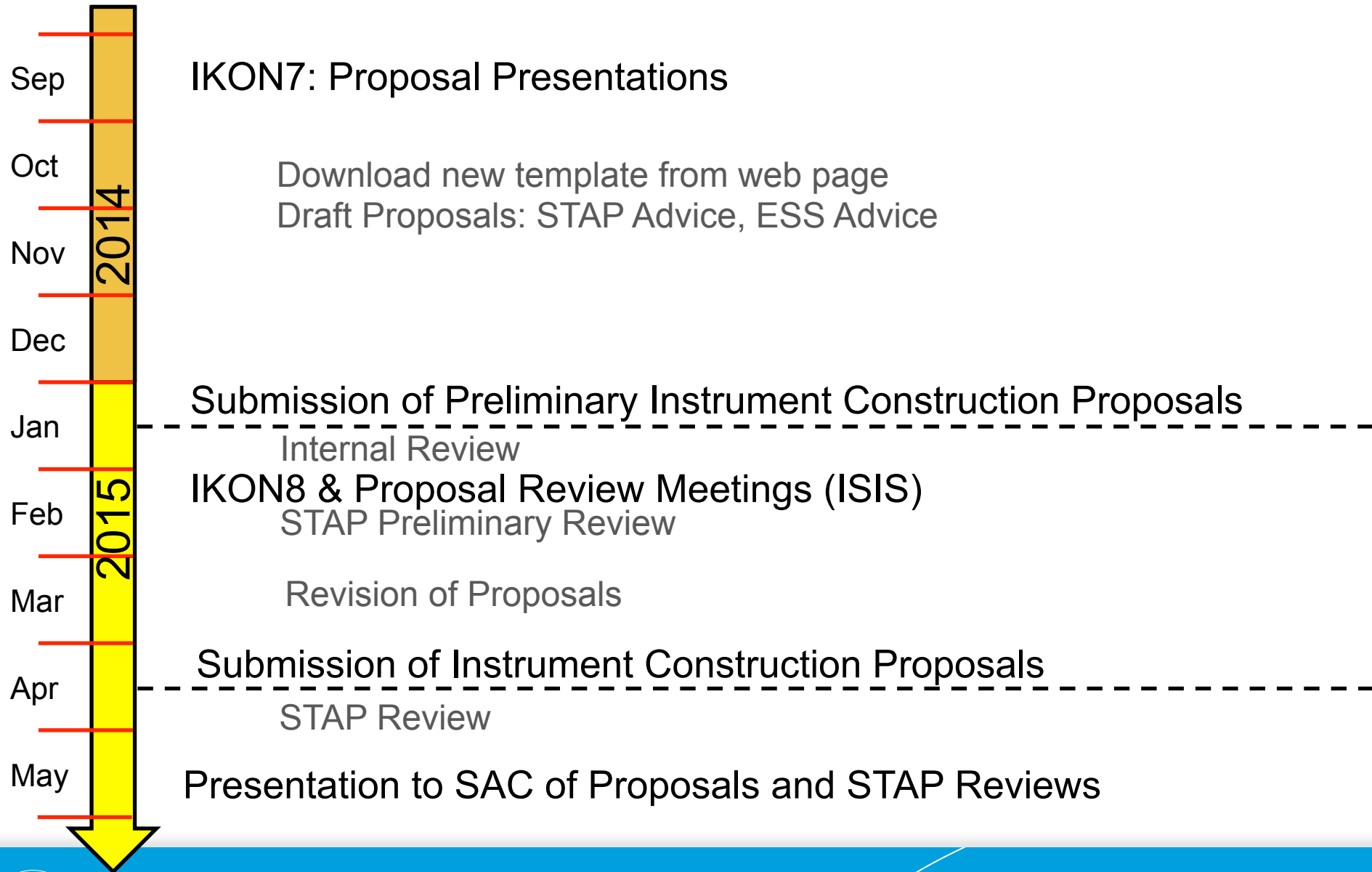
Andrew Wildes

Thomas Proffen

Stephen Hull

Werner Kuhs

The 2015 Instrument Proposal Round



STAP role

- During proposal drafting
 - advise on the science case
 - advise on the instrument design
 - advise on the facility needs

STAP role

- During proposal drafting
 - advise on the science case
 - advise on the instrument design
 - advise on the facility needs
- During proposal review meeting (February)
 - give advice on improving proposal
 - incorporate relevant comments from internal reviews
 - discussion can be direct – disagreements need to be addressed
 - prepare written report: audience is proposers
 - traffic light is deciding

STAP role

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 - give advice on improving proposal
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 - discussion can be direct – disagreements need to be addressed
 - prepare written report: audience is proposers
 - traffic light is deciding

- **Green** The proposed concept meets the criteria and can proceed to construction. There may be minor comments on content and style to improve the proposal.

- **Orange** Some information is missing in order to recommend the instrument for construction. It is expected that this information can be made available in time for the submission of the revised proposal for the final review. Clear guidelines need to be provided by the STAP to the proposer on the missing information.

- **Red** A significant amount of information is missing, incompatible with the timescale of revising the proposal for the final review round. Alternatively, the concept is not considered viable in its current form. In the STAP review, it needs to be clearly stated whether the proposal is recommended for resubmission another year, and if so, which additional information is required.

STAP role

- During proposal drafting
 - advise on the science case
 - advise on the instrument design
 - advise on the facility needs
- During proposal review meeting (February)
 - give advice on improving proposal
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Red A significant amount of information is missing, revising the proposal for the final review round. Alternatively, the concept is not considered viable in its current form. In the STAP review, it needs to be clearly stated whether the proposal is recommended for resubmission another year, and if so, which additional information is required.

Evaluation Criteria

- Scientific Impact
- User base and demand
- Instrument performance
- Strategy and uniqueness
- Technical maturity

STAP role

- During proposal drafting
 - advise on the science case
 - advise on the instrument design
 - advise on the facility needs
- During proposal review meeting (February)
 - give advice on improving proposal
 - incorporate relevant comments from internal reviews
 - discussion can be direct – disagreements need to be addressed
 - prepare written report: audience is proposers
 - traffic light is deciding
 - prepare first draft of review
- After submission of final proposal (April)
 - review proposal: audience is SAC
 - no traffic light, just clear recommendation on construction
- At SAC meeting (May)
 - presentations by proposer, STAP chair, ESS management
 - SAC gives high-level ranking

Many thanks!

- For putting in the effort
- For agreeing to help us
- It's important!