

# In-Kind Workshop HEPTech

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www.europeanspallationsource.se
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### **ESS In-kind contributions**



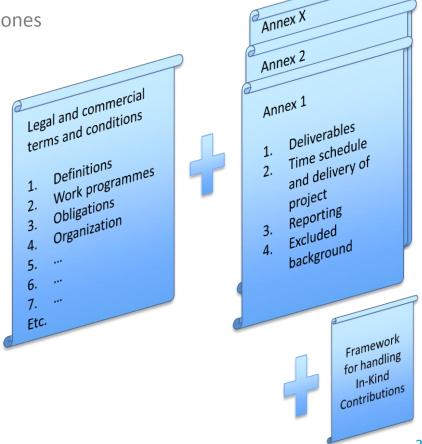
- Potential in-kind contributions are defined in ESS Cost Book
- Each contract to follows a pre-defined structure
- The delivering party is wholly responsible for the contribution (technical, financial, commercial)
- In-Kind Review Committee to evaluate all IKC agreement proposals
- ESS Council to approve all in-kind contracts
- Based on final evaluation the Member Country gets accredited the value of the In-Kind Contribution

### **ESS In-kind Contract structure**



### "Framework for handling In-Kind Contributions" defines minimum content

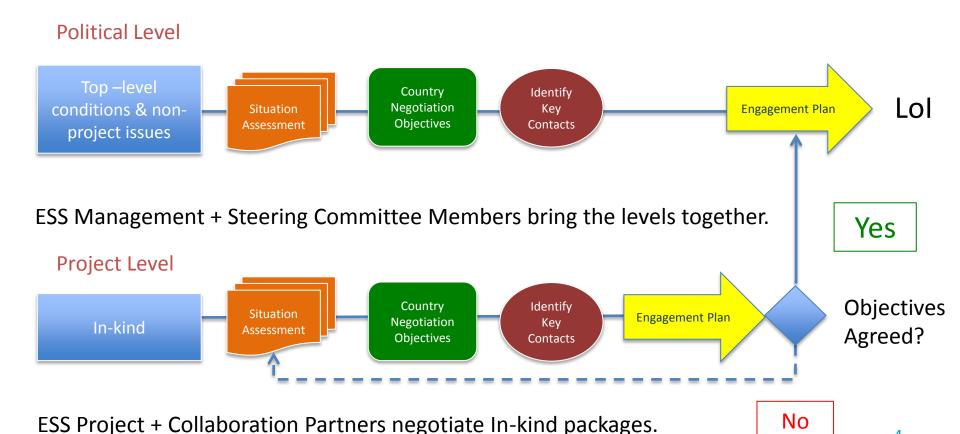
- Technical description, specification
- Project plan schedules, deliverables, milestones
- Attributed value
- Terms of delivery, transportation
- Quality control
- Documentation op. manual, parts list etc.
- Training
- Technical and financial control systems
- Appointment of responsible personnel
- Roles and responsibilities
- Ownership of background, foreground
- Use and dissemination of foreground
- Licenses and rights
- Access rights
- Transfer of ownership
- Procedures of reporting
- Formal evaluation
- Risk assessment and management



# The ESS negotiation process must combine the political and project needs.

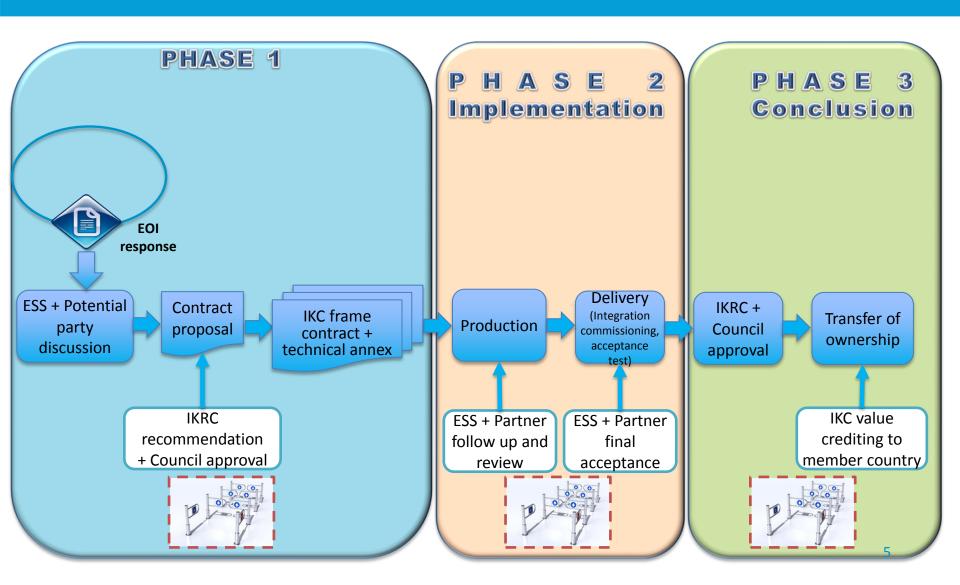


SE and DK Negotiators + Ministries in Member Countries negotiate high-level amounts as a percentage of the project and mix of in-kind and cash.



# The IKCM Process has three basic phases: a beginning, a middle, and a conclusion.





# The process of identifying partners is underway, but just at the beginning.



May 2

Call for EOI sent out
 Target mailing, website publishing, conferences/events

**TDR** 

**Cost Book** 

May 2-Present Active solicitation period
 Period of meetings and communications with potential partners to encourage participation and answer questions

Aug. 15-On-going EOI Evaluation started
 Prioritization based on schedule, need, relevance

Competence

Relevance

### **Discussions on-going**

New calls as WPs mature

So far 131 organizations from 20 countries have replied. We in ESS have to be proactive in seeking partners, we can't wait.

# Call for Expressions of Interest Scope & Criteria



Based on TDR

Cost Book

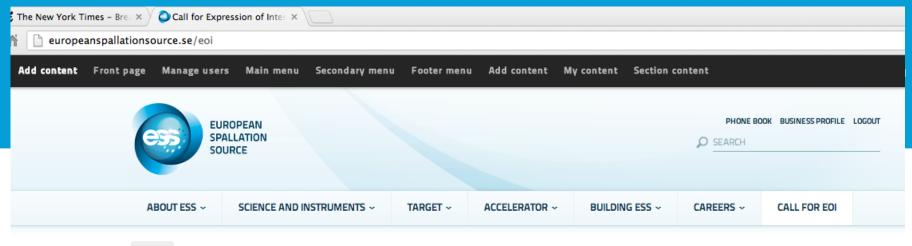
May contribute "component" or "work"

Slightly different for Accelerator, Target & Instruments

Competence of the team(s) responding, references

We expect there will be partnering on Work Packages

After EoI response, a detailed discussions for IKC begin



View Edit

### Call for Expression of Interest for Construction

The European Spallation Source (ESS) is to be built in the spirit of cooperation, sourcing the knowledge of Europe's leading experts and institutions. In that spirit, all interested parties are invited to submit an Expression of Interest (EOI) for inkind contributions (IKC) to the construction.

The European Spallation Source is preparing to move into the Construction Phase and begining the process of formally agreeing with partners for contributions to the construction phase. The first step in this process is identifying contributors to become In-kind partners. ESS invites all interested parties, with relevant experience and expertise, to indicate their interest in participating.

To assist potential contributors in determining how to join the project, the "Call for VOLVED Expression of Interest" (ess\_eoi\_2013.pdf) provides guidelines for responding, as well as the framework for IKC. The ESS Cost Book (ess\_cost\_book\_2013.pdf) is also available, and indicates work package opportunities for IKC. Also included here is a link to the ESS Technical Design Report (TDR). The TDR provides the technical description of the project. Contributions may include:

http://europeanspallationsource.se/eoi

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COMPLETE AND OPERATE THE BEST AND MOST POWERFUL NEUTRON SOURCE IN THE WORLD BY THE END OF THE DECADE

- ESS

## Instrument Proposals 2013: Part 1



Name	Proposer	Description	
Compact SANS	Lise Arleth, KU Joachim Kohlbrecher, PSI	20m SANS optimized for small sample volumes	
Versatile SANS: SKADI	Henrich Frielinghaus, FZJ partners: CEA & TU-Delft	55m SANS optimized for flexibility, polarization and small Qs	
Horizontal Reflectometer: FREIA	Hanna Wacklin, ESS	Soft matter & life sciences reflectometer optimized for kinetics	
Horizontal Reflectometer: THOR	Markus Strobl, ESS (based on HZB concept)	Flexible liquids reflectometer	
Vertical Reflectometer: ESTIA	Jochen Stahn, PSI Marite Cardenas, KU	Selene-type focusing reflectometer for small samples	
Vertical Sample Reflectometer	Alexander Ioffe, FZJ Dieter Lott, HZG Stefan Mattauch, FZJ	Versatile magnetism reflectometer, optimized for high resolution and small samples	
General-Purpose Powder Diffractometer: MODI	Paul Henry, ESS	Crystal-monochromator powder diffractometer optimized for in-situ chemistry and kinetics	
Powder Diffractometer: POWHOW	Werner Schweika, FZJ	Highly versatile bispectral powder diffractometer	
Hybrid Diffractometer: HEIMDAL	Mogens Christensen, Aarhus	Powder diffraction, SANS and imaging in a single instrument, optimized for in-situ processes	

## Instrument Proposals 2013: Part 2



Name	Proposer	Description	
Engineering Diffractometer: BEER	Andreas Schreyer, HZG Petr Lukas, Řež	Materials & engineering diffractometer with integrated physical simulator for in-situ engineering studies	
Wide Bandwidth Chopper Spectrometer: VOR	Pascale Deen, ESS A Vickery, KU	24m Chopper spectrometer optimized for broad energy suveys of small samples and kinetics	
Bispectral Chopper Spectrometer: T-REX	Thomas Brückel, FZJ Jörg Voigt, Niccolo Violini	150m Chopper spectrometer optimized for magnetism and materials sciece	
Cold Chopper Spectrometer: C-SPEC	Wiebke Lohstroh, TUM	120m General-pupose cold chopper spectrometer	
Time-Focusing Spectrometer: Tempus Fugit	Andrea Orecchini, INFN Alessandro Paciaroni, Perugia	Thermal crystal-monochromator chopper spectrometer with time focusing	
Crystal-Analyser Spectrometer: CAMEA	Henrik Rønnow, EPFL	Spectrometer with continuous angular and multiple energy analysis for functionally advanced materials and extreme environments	
High-Resolution Spin Echo: ESSENSE	Michael Monkenbusch, FZJ Stefano Pasini, FZJ	High-resolution neutron spin-echo spectrometer, accessing 1µs Fourier time with superconducting coils	

### Industry and Partner Days



C	L D			
Czec	nк	en	uin	116
CZCC		CP	un	110

18. September – Prague

#### **Denmark**

30. September – Lyngby (DTU)

In collaboration with BSS

#### **Estonia**

26. September – Tallinn and Tartu

#### Hungary

4. October – Budapest

#### Italy

17. June – Rome

#### Lithuania

13. September – Vilnius

#### **Norway**

24. September – Oslo

#### **Spain**

17. June – Partner Dinner Madrid

#### **Switzerland**

20. June – Villingen

### **Upcoming Events:**

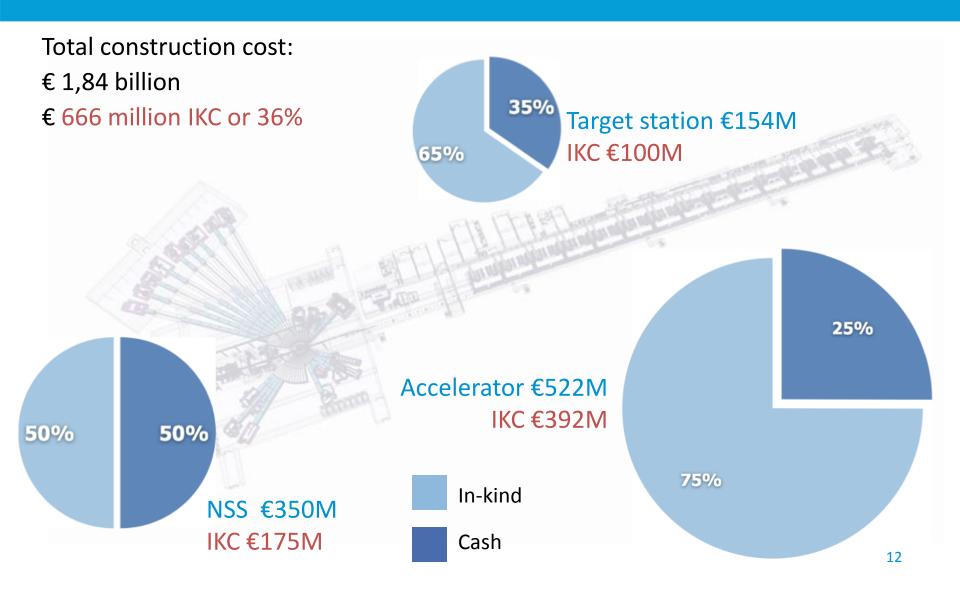
**Germany – January** 

France – February

Netherlands – February

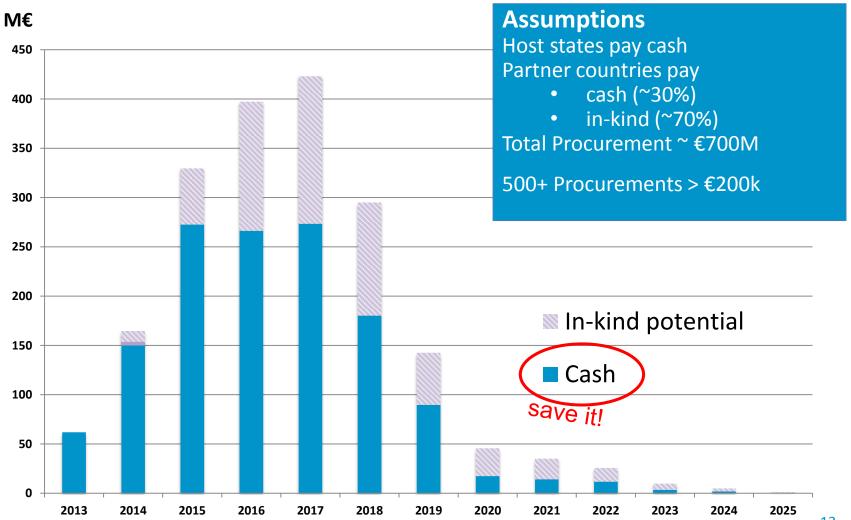
# The In-kind potential represents more than one-third of the project value.





# Procurement will still be a critical success factor in the project, both for cost and schedule.

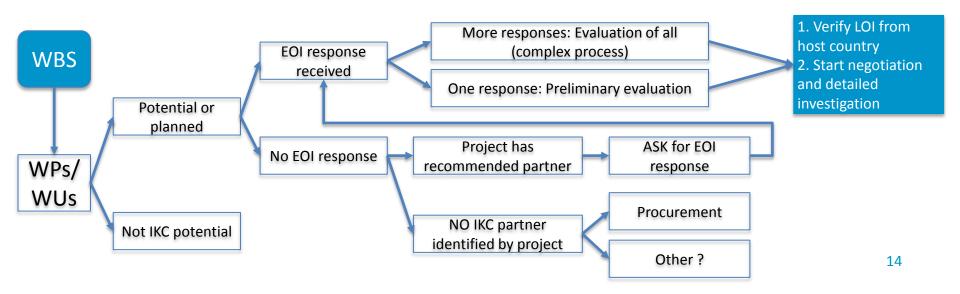




# The ESS Strategy is maximize in-kind contributions.

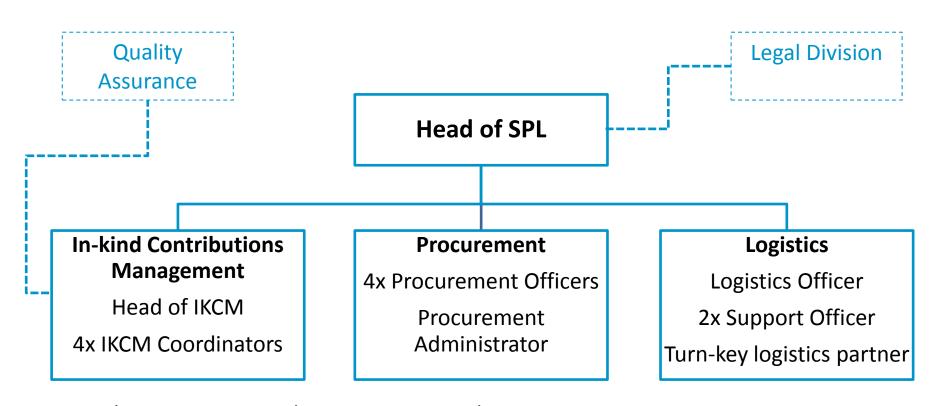


- + In-kind frees up cash
- + In-kind brings expertise to the project
- + In-kind allows for more work in parallel
- There is less direct control
- There is more uncertainty (risk)
- Resources and time must be applied to relationships



## The Supply, Procurement & Logistics (SPL) team must be in place by the middle of 2014.





- The SPL Division is the Contracting Authority in ESS
- The Head of SPL determines procurement procedures and awards contracts
- The Procurement Officers and ICKM Coordinators manage contracts

Total 14 Staff

### Members of In-Kind Review Committee



Name	Country	Affiliation	
Dr. Petr Šittner	CZECH REPUBLIC	Institute of Physics ASCR (Fyzikální ústav AV ČR, v. v. i.)	
Søren Schmidt	DENMARK	DTU Physics, Department of Physics, FYS-NEXMAP, Technical University of Denmark	
Prof. Jörg Pieper	ESTONIA	Institute of Physics, University of Tartu	
Alexander Müller	FRANCE	CNRS - Institute National de Physique Nucléaire et de Physique des Particules	
Dr. Ulrich Breuer	GERMANY	Karlsruhe Institute of Technology Helmholtz Zentrum Berlin	
Dr. Tamás Grósz	HUNGARY	Research Centre for Natural Sciences, Budapest	
Marco Marazzi CHAIR	ITALY	Sincrotrone Trieste S.C.p.A., Trieste	
Dr. Wim Bras	NETHERLANDS	European Synchrotron Radiation Facility, Grenoble	
Bjørn C Hauback VICE-CHAIR	NORWAY	Physics Department, Institute for Energy Technology (IFE)	
Prof. Adam Maj	POLAND	Institute of Nuclear Physics, Polish Academy of Science	
Prof. Ulf Karlsson	SWEDEN	KTH Royal Institute of Technology	
Dr. Peter Allenspach	SWITZERLAND	Paul Scherrer Institute (PSI)	
Dr. Uschi Steigenberger	UNITED KINGDOM	ISIS – Science & Technology Facilities Council	
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