



Helix Nebula – The Science Cloud Status Update

Helge Meinhard / CERN

WLCG Collaboration Board 08 October 2016

HELIX NEBULA Science Cloud

Joint Pre-Commercial Procurement

Procurers: CERN, CNRS, DESY, EMBL-EBI, ESRF,
IFAE, INFN, KIT, SURFSara, STFC

Experts: Trust-IT & EGI.eu

The group of procurers have committed

- >1.6M€ of procurement funds
- Manpower for testing/evaluation
- Use-cases with applications & data
- In-house IT resources

To procure innovative IaaS level cloud services integrated into a hybrid cloud model

- Commercial cloud services
- European e-Infrastructures

Services will be made available to end-users from many research communities

Co-funded via H2020 (Jan'16-Jun'18)

- Grant Agreement 687614



Total procurement commitment >5M€

08-Oct-2016

HNSciCloud Status - Helge Meinhard at
CERN.ch

User groups to be supported

- **High Energy Physics**

- LHC experiments
- Belle II
- COMPASS



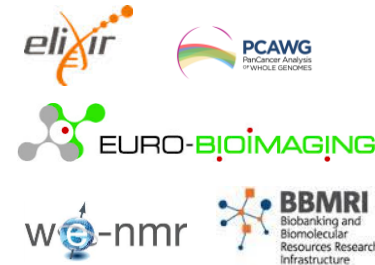
- **Astronomy**

- CTA – Cherenkov Telescope Array
- MAGIC
- Pierre Auger Observatory



- **Life Sciences**

- ELIXIR
- Euro-BioImaging
- Pan-Cancer
- BBMRI
- WeNMR



- **Photon/Neutron science**

- PETRA III, European XFEL, 3DIX, OCEAN, OSIRIS



- **Long tail of science**

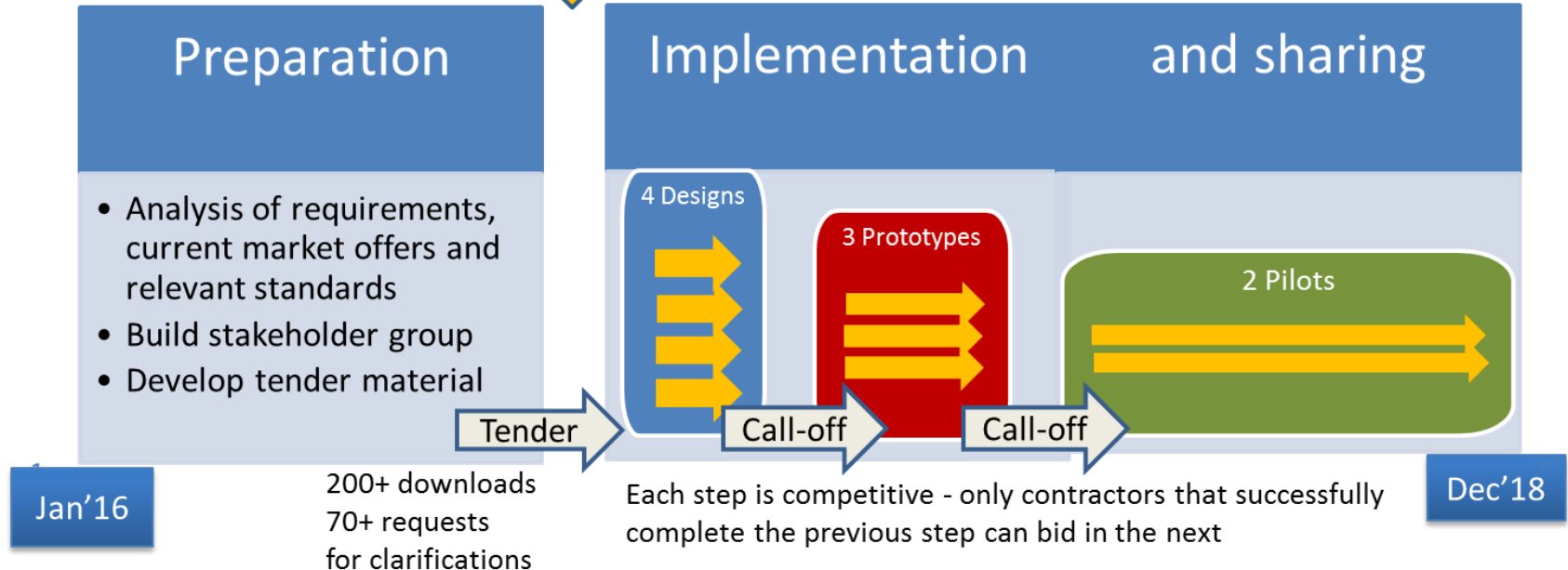


Technical Challenges

- Compute
 - Integration of some HPC requirements
- Storage
 - Caching at provider's site, if possible automatically (avoid managed storage)
- Network
 - Connection via GÉANT
 - Support of identity federation (eduGAIN) for IT managers
- Procurement
 - Match of cloud providers' business model with public procurement rules

HNSciCloud Project Phases

We are here



HNSciCloud – Current Status

- Tender announced in Jan 2016
- 17-Mar-2016: Open market consultation
- Draft tender material reviewed by external reviewers and European Commission
- 21-Jul-2016: Tender issued: > 200 downloads, > 70 clarification requests
- 07-Sep-2016: Tender information day – design phase
- 19-Sep-2016: Deadline for tender replies
 - Sufficient and satisfactory number of valid tenders received
 - Evaluation by administrative and technical experts
- 07-Oct-2016: Procurement Collaboration Board decision on contracts to be placed

HNSciCloud – Next Steps

- Award decision notice, standstill period, contract signature
- 02 and 03-Nov-2016: Public award ceremony, kick-off meeting of design phase



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