



# Federated Identity and the Photon / Neutron Community

# TOC

- ❑ ***Umbrella prototype***
  - ✓ Status
  - ✓ Road map
  
- ❑ ***FIM workshop and paper***
  - ✓ Community feedback
  - ✓ Conclusions

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# Umbrella

- ❑ ***Demands at large photon / neutron facilities very clear to IT responsables***
  - ❖ Unique user ID, persistent
  - ❖ Remote data and experiment access
  - ❖ Need for user and facility friendliness
  - ❖ Very large number of visiting scientists: Need slim and efficient system
- ❑ ***Reduced excitement on management (and user?) side***
  - ❖ Limited resources
  - ❖ Confidentiality
  - ❖ Scientific competition
- ❑ ***Overlapping IT communities, strong need for bridging***
  - ❖ Large facilities and universities (educational sector)
  - ❖ Large facilities and university labs
- ❑ ***Umbrella***
  - ❖ Common central, web portal, hybrid information structure
  - ❖ Slim solution, no top down organization, self service elements
  - ❖ Build on existing infrastructure (user offices), clear topology, no double worlds

## Friendly user phase

- ❑ **Goal and duration**
  - ❖ Test of the system by future users
  - ❖ February 1 – March 31
- ❑ **Central Applications**
  - ❖ Prototype of central web site
  - ❖ EAA: registration, mutation
  - ❖ Alfresco, Indico, Issue tracker, Wiki
- ❑ **Federated applications**
  - ❖ Umbrella + WUO clone versions
- ❑ **Participants**
  - ❖ Facilities
    - DESY
    - Diamond (iCAT service, Moonshot?)
    - ESRF
    - PSI
  - ❖ 'Friendly' users
    - ~30, all over EU
    - External expert users (ESUO, ETH, BioStruct, ??)
    - Local facility experts (DESY)

# Roadmap towards implementation

- **Harmonization meeting (CRISP & PaNata)**  
**ZRH airport (20 participants) June 13**
  - ❖ Unanimous agreement: go towards implementation
  
- **Project structure**
  - ❖ Management team
    - ❖ Priorities, MoU, facility coordination
  - ❖ Technical team
    - ❖ To be done (e.g. affiliation db)

## Umbrella collaborators

### ❑ DESY

❖ Frank Schluenzen, Rolf Treusch, Jan-Peter Kurz, Ulrike Lindemann

### ❑ Fermi/Elettra

❖ Ornella Degiacomo, Giorgio Paolucci

### ❑ ESRF

❖ Rudolf Dimper, Dominique Porte, Stefan Schulze

### ❑ European XFEL

❖ Krzysztof Wrona

### ❑ GSI

❖ Peter Malzacher, Almudena Montiel

### ❑ HZB

❖ Thomas Gutberlet, Dietmar Herrendoerfer, Olaf Schwarzkopf

### ❑ I LL

❖ Jean-Francois Perrin

### ❑ IPJ (Poland)

❖ Robert Nietubic

### ❑ MaxLAB

❖ Ulf Johansson

### ❑ PSI

❖ Bjoern Abt, Stephan Egli, Stefan Janssen, Markus Knecht, Mirjam van Daalen, Heinz J Weyer

### ❑ Soleil

❖ Frederique Fraissard

### ❑ STFC

❖ Anthony Gleeson, Bill Pulford

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# Response from the P/N community

## □ *Feedback*

- ❖ Limited, why?
- ❖ Have created decently working environment
- ❖ Scientists are conservative, other priorities; but need to keep them
- ❖ Talk about far future, is change really needed?
- ❖ Expect experts to have solution in case

## □ *Issues*

- ❖ No reactions on general issues, specific topics
- ❖ Changes of local infrastructure not acceptable
- ❖ Need common entry point for remote data access
  - o Recent SwissFEL DAQ workshop: LCLS(SLAC), EU XFEL (DESY) will have on-site analysis centers, SwissFEL probably too
- ❖ User friendliness, secure self service, no chance for grid-certificate-type mechanisms, must be quick and slim
- ❖ Simplify admin burden, no additional resources, transparency for access
- ❖ Identity uniqueness and persistence
- ❖ Different levels of assurance, validation

## Need two approaches in parallel (1)

### □ *Top down*

- ❖ General concept
- ❖ Try to find synergies
- ❖ Common approach towards science policy

# Need two approaches in parallel

## □ *Bottom up*

### ❖ See things from user side

o Look at real use cases

- Postdoc moving from A to B
- Geologist studying a piece of rock (P/N facility = 1d/y)

### ❖ See things from facility side

o Have only few FTE's to handle site access, housing, proposals, visa, computer accounts, ...

o Quantitative issue

- ESRF as example: 10'000 users/y, 20'000 visits/y, 1'500 affiliations, 15 countries.
  - Currently do authentication with few 10% of FTE
  - all EU: x2-3

### ❖ Grouping of users

o NRENs (national, geographical)

o Facility clusters (user offices, international)

o How can they be related?

# FIM and New vistas

## □ *Bridging, different federations*

### ❖ CRISP

- o Partly topic of WP16 (PSI and GSI)

### ❖ Different options

- o No answer, islands
  - Too dangerous, do not trust
- o Fully transparent
  - Risky
- o Bridging
  - User can e.g. bring her/his attributes from Facebook

## □ *New media, how do we deal with them*

### ❖ Support or 'You are entering the wilderness'

### ❖ Fora, Facebook

- o Facility operated, 'info trees' (EuroFEL, CALIPSO), Wikis
  - There is a need, but labor intensive
- o Commercial, User driven (Facebook, Google+)
  - Researchers: info exchange

### ❖ Clouds

- o Community driven
  - Helix Nebula, High interest in further development
- o Commercial
  - Users: analysis, publ. preparation (repl. for email)
  - Let them do or give support?

**Thank you**