



# Umbrella Status

Mirjam van Daalen

**Umbrella is the federated identity management system designed for the European Photon and Neutron source facilities.**

**It is the first time that such a kind of IT environment is offered**

- **European wide (not restricted to the EU)**
- **Community overlapping**
- **Shared between different EU projects**

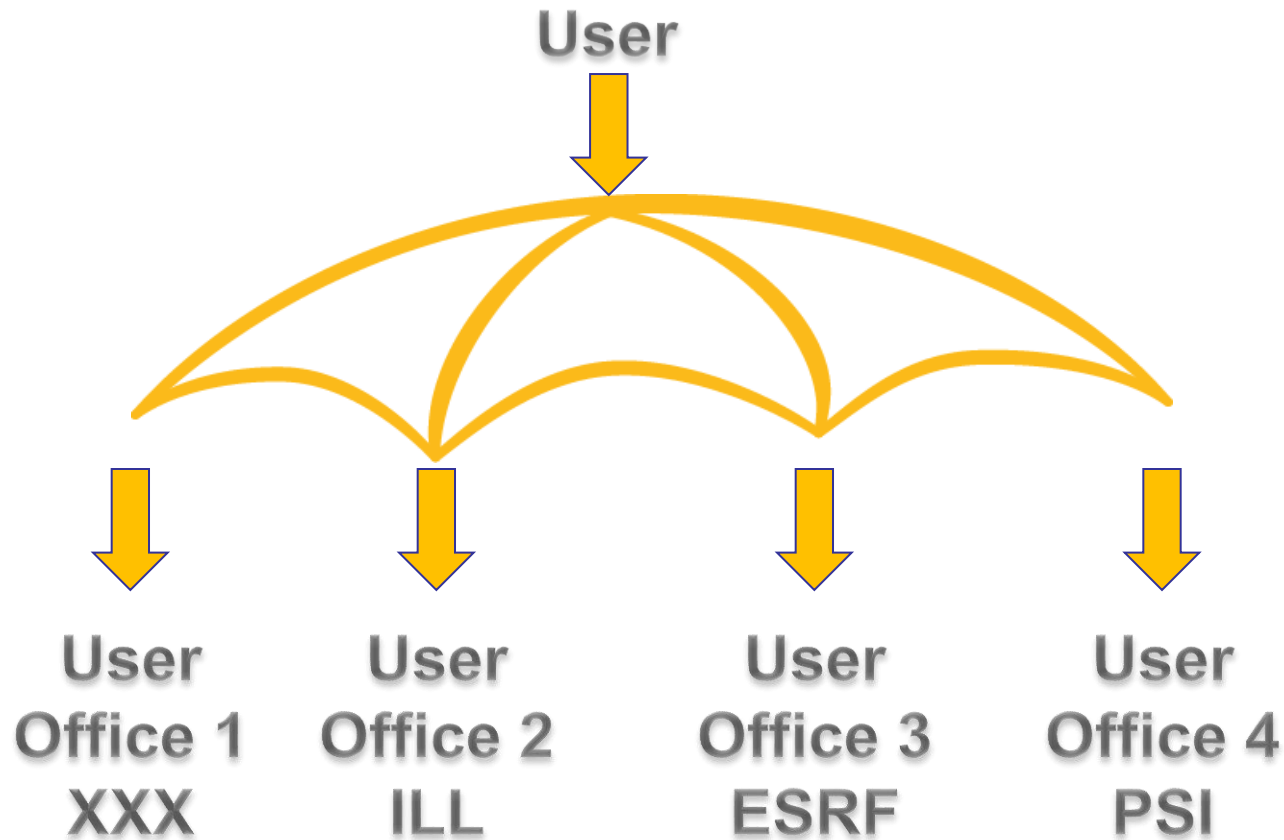
## Umbrella is part of several FP7 projects:

- EuroFEL (2008-2011) - ESFRI project WP2
- PaNdata Europe (2010-2011), PaNData ODI (2011-2014).
- CRISP (2011-2014) – Cluster project of different ESFRI projects
- CALIPSO – I3 synchrotron community
- NMI3 - I3 neutron community
- Will be part of H2020 project PaNDaaS 2015

## What are the present and upcoming user needs?

- a. 40% of the users (40% of >30.000) do experiments at different facilities, transfacility access for users.
- b. Acces to and management of experimental data (also within the collaboration).
- c. Online entry mode: remote experiment access
- d. Access to efficient data analysis tools.
- e. Minimal administration load for users.
- f. Remote file access.

**At the end all this needs a unique persistent user identification to have unified access to these tools.**



**Umbrella is the basis for various user services under development**

- a. Info & service portal
- b. European proposal support (NMI3 & CALIPSO)
- c. Remote experiment access
- d. Remote file access
- e. Metadata catalogue (iCAT)

**Without a unique identifier it will not be possible to have unified access and work with these tools.**

**The different partners (nearly all European Photon and Neutron facilities with >30000 users) of the Umbrella collaboration work together in :**



- Decide on development and operational issues
- Define strategy

# Roadmap for Umbrella deployment



**Project end  
PaNdata  
30.09.2014**

**Project end  
CRISP  
30.09.2014**

**MoU  
between  
partners**

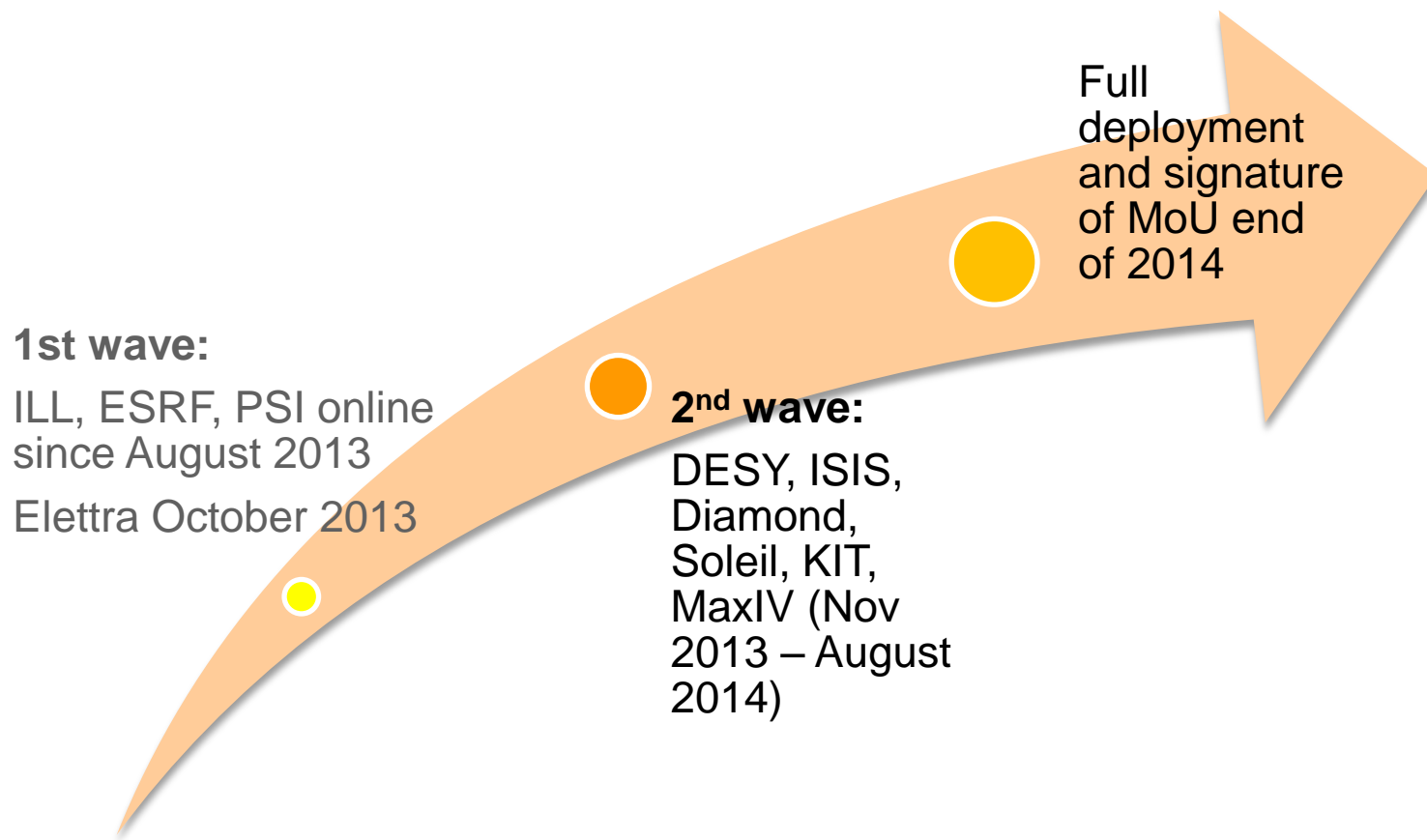


Facility	Status	SP installed	WUO adapted	Production
ESRF	OK	OK	OK	OK
ILL	OK	OK	OK	OK
PSI	OK	OK	OK	OK
Elettra	OK	OK	OK	OK
ISIS	OK	OK	OK	OK
Diamond		OK	OK	Waiting for management
DESY	OK	OK	OK	OK
Soleil		OK	OK	Waiting for management
KIT		OK	OK	Waiting for management
MAXIV		OK	OK	Waiting for management

Deployment planning	Umbrella Deployment	CRISP	PaNData	NMI3	CALYPSO	Others	UT
ESRF	implemented	x	x		x		
ILL	implemented	x	x	x			
DESY	implemented	x	x		x		
Diamond	Technically prepared	x	x		x		
ISIS	implemented		x	x			
Elettra	implemented		x		x		
MaxLab	Technically prepared		x		x		
HZB	when GATE in operation		x	x	x		
Soleil	Technically prepared		x		x		
Alba	End 2014		x		x		
EUXFEL	at start of user operation	x	x				
ESS	at start of user operation	x					
GSI	at start of user operation	x					
PSI	implemented	x	x	x	x		
FELBE	End 2014				x		
CLIO	No Umbrella				x		
FELIX	end 2014				x		
KIT	technically prepared						

- PSI management decided not to operate the Umbrella platform after finishing the PaNData and CRISP projects 30.09.2014.
- ILL was willing to take over the operation of the Umbrella platform, starting from the 01.10.2014 .
- “GNU Lesser General Public License” LGPL inserted in MoU

- Umbrella project was finished as foreseen within the CRISP and PaNdata ODI projects.
- MoU should be signed this month.
- Handover of Umbrella as a finished project for operation to ILL.
  - Operators handbook Umbrella ready at: [umbrellaid.org](http://umbrellaid.org)
- Umbrella as a basis for new services in future Horizon 2020 project PaNDaaS.



## In operation

1. Basic Umbrella <https://umbrellaid.org/euu/>
2. Geo DNS (server Umbrella distributed between different facilities)
3. Access to iCAT metadata catalogue via Umbrella (PaNdata ODI development)

## Ready to put into operation

- Access to Umbrella via EduGain (Geant 3+, Switch)
  - Login with account home institution (Universities etc.)
- Link of Umbrella to Moonshot (Geant 3+ , non web based access)
  - Remote experiment access
- EU affiliation database (PaNdata ODI WP3)
  - Too much resources to merge with existing databases
  - Start with new facility, e.g, EU XFEL

# **Umbrella collaborators**

**ALBA:** Daniel Salvat

**DESY:** Frank Schlutzen, Rolf Treusch, Jan-Peter Kurz, Ulrike Lindemann

**Fermi/Elettra:** Cecilia Blasetti, Ornella Degiacomo, Giorgio Paolucci, Roberto Pugliese

**ESRF:** Rudolf Dimper, Dominique Porte, Julien Savoyet, Stefan Schulze

**European XFEL:** Krzysztof Wrona, Frederic Le Pimpec

**GSI:** Peter Malzacher, Almudena Montiel Gonzalez, Kilian Schwarz

**HZB:** Thomas Gutberlet, Dietmar Herrendoerfer

**ILL:** Jean-Francois Perrin

**ISIS:** Tom Griffin

**MaxLAB:** Krister Larsson, Ulf Johansson

**PSI:** Bjoern Abt, Stephan Egli, Stefan Janssen, Markus Knecht, Mirjam van Daalen, Heinz Weyer

**Soleil:** Frederique Fraissard

**STFC:** Bill Pulford



Thank you for your attention!