

# Unified User Umbrella European AAI

# U3+EAA - Agenda

## 1) general

1.1 ) goal of umbrella, current status

1.2 ) projects supporting future developments (EuroFEL, PaN-Data, CRISP)

## 2) Umbrella

2.1 ) demonstration

2.2 ) discussion: how easy is it to incorporate Umbrella into DOOR

2.3 ) very short presentation of the gamma-portal

coffee break

## 3) discussion points:

3.1) parallel operation of DOOR, Umbrella, user name duplicates

3.2) affiliations (see indico below)

3.3) Umbrella experiment topology (see indico below)



# U3+EAA – related projects

## > PanData Europe:

- 11 Neutron/X-ray facilities. (DESY, PSI, HZB , ESRF/ILL)
- 06/2010-11/2011; 2FTEs;

## > PNI-HDRI:

- 6 HGF facilities (DESY, HZB)
- 2010-2014; 117 FTEs;

## > PanData ODI – Open Data Infrastructure

- 11 Neutron/X-ray facilities. (DESY, PSI, HZB , ESRF/ILL)
- 2011-2014; ~10FTEs
- No funding yet

## > CRISP - Cluster of Research Infrastructures for Synergies in Physics

- 16 partners, mostly ESFRIs like ESS, LHCb, FAIR (DESY, PSI, Eur. XFEL, ESRF/ILL)
- 2011-2015; 13M€
- No funding yet (but most likely)



# U3+EAA – PaNdata Europe

## > *Objective 4 – Users*

**To foster interoperability of user information across the participating facilities and the wider research community.**

## > *Outcomes*

- **develop standards** enabling a shared Virtual Organisation Management and common processes across the participating facilities,
- **review existing authentication solutions** with special emphasis on the IRUVX / ESRFUP prototype solution and propose a prototype authentication system in view of the needs of the full neutron and photon community,
- hold a workshop with facility authentication experts; plan the adoption strategy for the full-community authentication system,
- revise the proposed authentication system in the light of the workshop findings, and determine the next steps.



# U3+EAA – PaNdata ODI

## > Objective 2 – Users

**To deploy, operate and evaluate a system for pan-European user identification across the participating facilities and implement common processes for the joint maintenance of that system.**

## > Outcomes

- **develop a generic infrastructure** to support the interoperation of facility user databases enabling unique identification of users and supporting authentication across the facilities and with other similar infrastructures in the wider context,
- **deploy this infrastructure** to establish a single catalogue of users across the partners,
- **provide a user login service** based upon this generic framework which will enable users single sign on to partners' systems,
- evaluate this service from the perspective of facility users,
- manage jointly the evolution of this software and the services based upon it,
- promote the integration of this technology and services based upon with similar systems beyond the project.



## > Remote data access:

- The large data sets will initially be stored at the PNI centres and those external users who are not able to transfer all the data to their home institutes must have the possibility to **access their data remotely**.
- A **web-based portal** shall act as a **common interface** for this access.
- A **survey of established open source software** (e.g. Fedora Commons) and of **solutions planned or implemented at other institutions** (e.g. DIAMOND, EuroFEL) will be performed and
- **a portal prototype will be implemented at DESY**. In the envisaged solution the user will have the means to perform keyword-based searching for data, to browse and visualize the contents of large data files, and to transfer specific parts of it without the need to transfer the complete data files.



## > Objectives

- **Develop and deploy a pan-European system for unique identification** (Authentication and authorisation infrastructure: AAI) of users at the infrastructures of the participating RIs EuroFEL (PSI), ESRF, ESS, FAIR (GSI), ILL, and XFEL for the management of local and remote access to facilities, experiments, data, and IT resources.



## > Description of work

- Authentication systems are the basis for most of the services for the users at large infrastructures and local systems are already in place at the research institutes hosting the participating RIs.
- The goal of this work package is to **add on top of these local systems a new pan-European layer**, which will allow a multitude of novel, additional functionalities, especially remote access to data and other IT resources. This layer will fit in the existing and planned IT landscapes of the participating RIs and these developments will be harmonised with their respective policy regulations.
- The project will identify and exploit synergies with related activities in research and education (e.g. TERENA, eduGAIN, various Shibboleth activities, and the Internet2 middleware funded by the US NSF), e-infrastructure projects and similar projects in the commercial (banking, security) and government sectors.

