PANData-ODI - WP7 Preservation

August 2012 – Avril 2014

RTD, 36 person-months
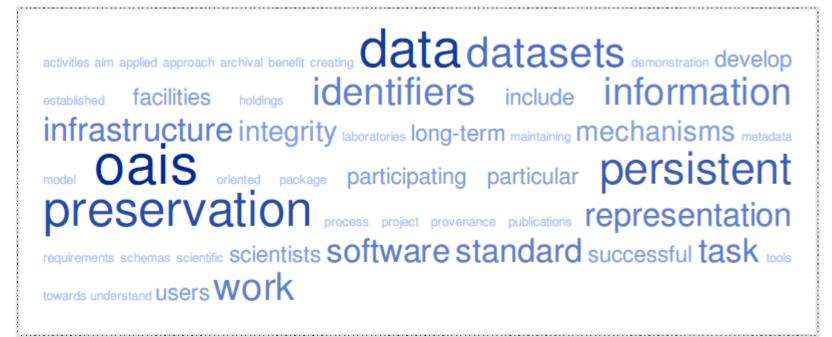
"incorporate models and tools oriented towards long-term **data preservation** into the PaNdata infrastructure"

Tagcloud of the WP7 DoW

- D7.1) Implementation of persistent identifiers for PaNdata datasets: [month 15]

- **D7.2) Mechanisms and tools for representation information and archiving: [month 21]**

- D7.3) Mechanisms and tools for integrity of datasets: [month 27]

- D7.4) Report on evaluation of preservation mechanisms: [month 30]

Open Archival Information System (OAIS)

- **Conceptual model** for managing, archiving and long term preservation of digital data.

- Origin 2002, Consultative Committee for Space Data Systems (CCSDS)

- ISO standard : 14721:2003
  http://public.ccsds.org/publications/archive/650x0b1.pdf

- Draft Recommended Standard

  http://public.ccsds.org/sites/cwe/rids/Lists/CCSDS%206500P11/CCSDSAgency.aspx

- Definitions (8 pages), concepts, responsibilities
- Information Model
  - Information Object
  - Information package : Packages for submission (SIP), archival storage (AIP) and dissemination (DIP)
- Functional Model
  - Ingest
  - Archival Storage
  - Data Management
  - Administration
  - Preservation Planning
  - Access

Implementation is not define by the OAIS model.

Aims of this WP in regards to OAIS are:

- Is ICAT suitable ?
- What ICAT (DB, WS, TopCat) modifications are necessary for OAIS compliance ?
- Adoption of the best practices for managing our archives.

"Mechanisms will be established for maintaining and checking integrity of datasets. This is needed both for individual datasets (as preservation actions are performed) and for data holdings as a whole. It includes representation and enforcement of policies on access to data."

Deliverable due by Month 27