

# REDaR: extending FORSbase to other disciplines

FORS-VariaForMea

December 12, 2018, Macolin





## DARIS FORSbase: research information and data archiving platform

- Over 11,000 project descriptions
- 19,100 researchers
- 4,500 institutions and research entities
- 5,280 active users
- 683 datasets

# FORSbase: background

- Needs of the FORS Data Service:
  - Services covering the entire life cycle of research data
  - Simplified archiving and publishing
  - Simplified access
  - Promotion of secondary analysis
  - Renewal of the infrastructure
  - Integrated work space for collaborators and researchers

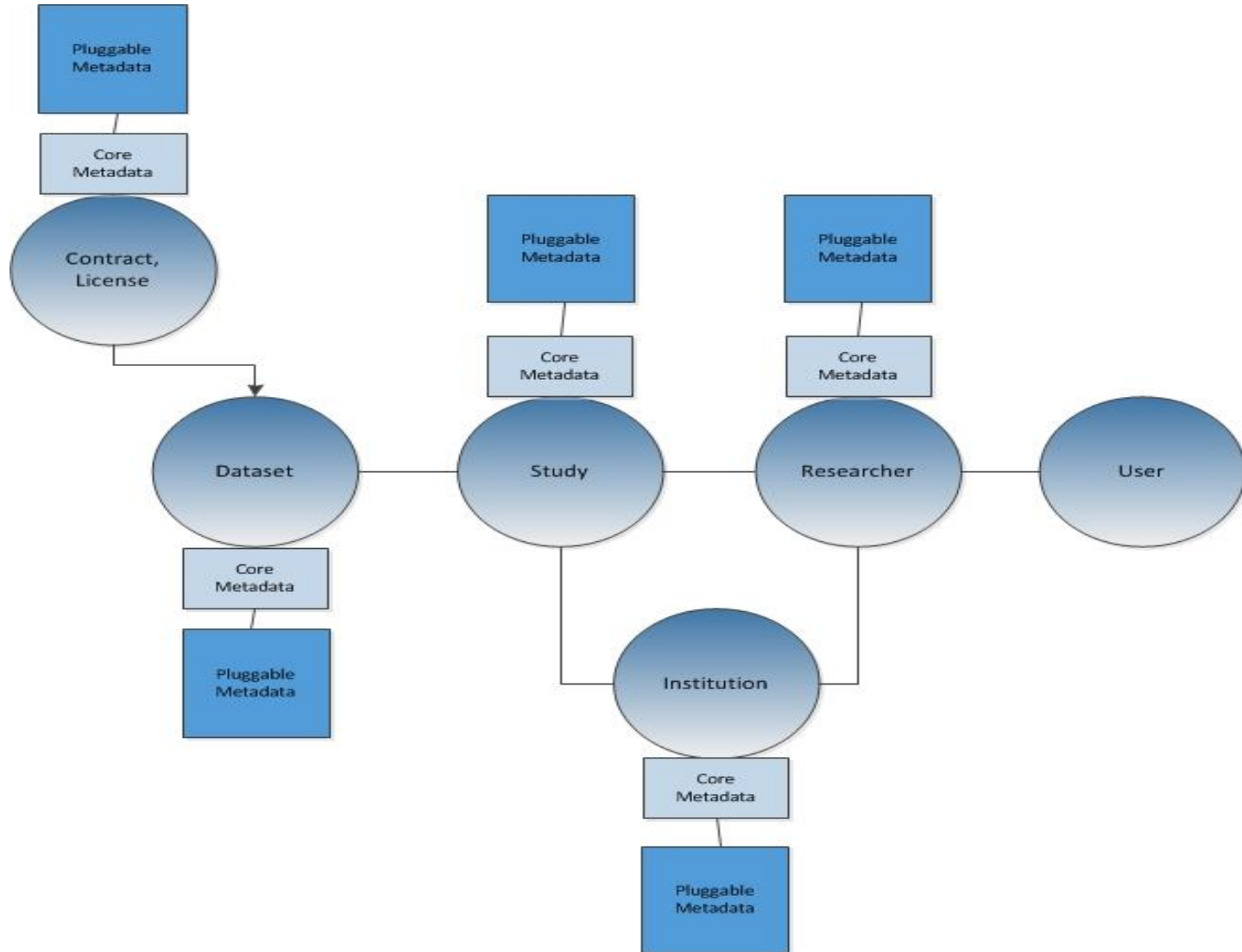
# FORSbase: research information and data archiving platform

- a research directory covering study-level, researcher, and institutional information;
- a digital repository and archive for research data;
- compliance with the Open Archival Information System/OAIS;
- Compliance with the FAIR principles (Findable, Accessible, Interoperable, Re-usable);
- metadata compliant with international standards (DDI);
- project workspaces for research teams to collaborate on ongoing studies;
- a standard process for research information and data (create/edit, submit, review/QA, publish/archive, search, access/download);
- contracts management for data deposit and use;
- a basic messaging system for contacting researchers and communication; and
- full multi-language support for metadata (EN/DE/FR/IT).

## REDaR: intended additional functionalities

- an adaptable metadata model in order to suit the needs of additional disciplines (linguistics, geosciences, etc.);
- integration of SWITCH edu-ID/ORCID to facilitate user management;
- integration of SWITCHdrive to enhance workspaces for research teams;
- adaptable user interface style to accommodate other institutions;
- implementation on SWITCHengines cloud infrastructure to ensure capacity for large datasets; and
- automatic harvesting of project-level information from existing platforms (SNF, EU)

# REDaR: approach



## REDaR: approach

- The core part will be separated out from the domain-specific component in order to obtain a generic core model that allows for different domain-specific metadata schemas to plug into on all levels, i.e. study metadata, dataset metadata, contracts and licensing, and researcher metadata.
- The proposed solution is a web application based on open source technologies:
  - Backend: Python/Django, Django REST
  - Frontend: Angular
  - File storage/management: Fedora Commons, ClamAV (antivirus solution)

# REDaR: linguistics

- Collaboration with the ZüKL (Zurich Center for Linguistics) and the Center for Linguistics and Language Sciences
  
- Assessment:
  - Where and how are the data currently stored?
  - Are the data structured, unstructured, semi-structured?
  - What metadata standard is being used?
  - What type and size are the data?
  - How are the data currently disseminated?
  - Are special contracts needed for sensitive data?
  - Are audio/video streaming functionalities necessary?
  - What are the expectations for catalog search functionalities?



## REDaR: project structure

- Partnership of FORS, UNIL, UZH and other key actors within from the Swiss academic landscape (e.g., universities, university libraries, SWITCH);
- Funding by swissuniversities' P-5 program
- Technical development at FORS in close collaboration with partners and future users of the systems;
- Close collaboration with future user communities, especially existing domain-specific user networks

**Thank you for your attention!**