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Agenda

- Initial situation and specific needs
- Profile and objectives
- Approach and functionalities
- CKAN as technical platform
- Federal architecture
- Subprojects ORD@CH
- Project organization and rough planning
- Questions and contact

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Initial situation and specific needs

- **«Data Silos»:**
  Research data generally remain confined in closed domain-specific environments.
- **Usage of data:**
  Basically no secondary usage beyond the research project that has produced the data.
- **Need for action (SUK programme 2013-2016 P-2):**
  Development of a metadata infrastructure («Metadata Hub») that spans across institutes and projects in order to make research data more broadly visible and accessible.
- **Requirements for the metadata hub:**
  - Harvesting, indexing and querying (plain text search) of the metadata
  - Access to the research data (primary data) of the institutes via URL
  - Usage according to the conditions of the research projects and institutes

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Profile of the ORD@CH project

- Development and pilot operation (9 months) of a metadata based publication platform for research data from the social sciences, the humanities, and the life sciences.
- Participating institutions:
  - FORS (Lead)
  - Digital Humanities Lab of the University of Basel
  - Scientific IT Services / SIB Swiss Institute of Bioinformatics of the ETH Zurich
- Milestones:
  - Start of the project: July 2014
  - Start of the pilot operation: spring 2015
  - End of the project: December 2015
- Continued operation and extension of the platform as an extensive metadata hub for Swiss research data in 2016.

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Objectives

- Promotion of secondary analysis of research data.
- Performance indicator for publicly funded research programs.
- Promotion of interdisciplinary approaches in research and teaching.
- Access to publicly funded research data for the general public.
- Increased visibility of research teams and institutes.
- Simplified publication of data linked to publications.
- Progressive integration of additional databases to build an extensive metadata infrastructure for research data in Switzerland.

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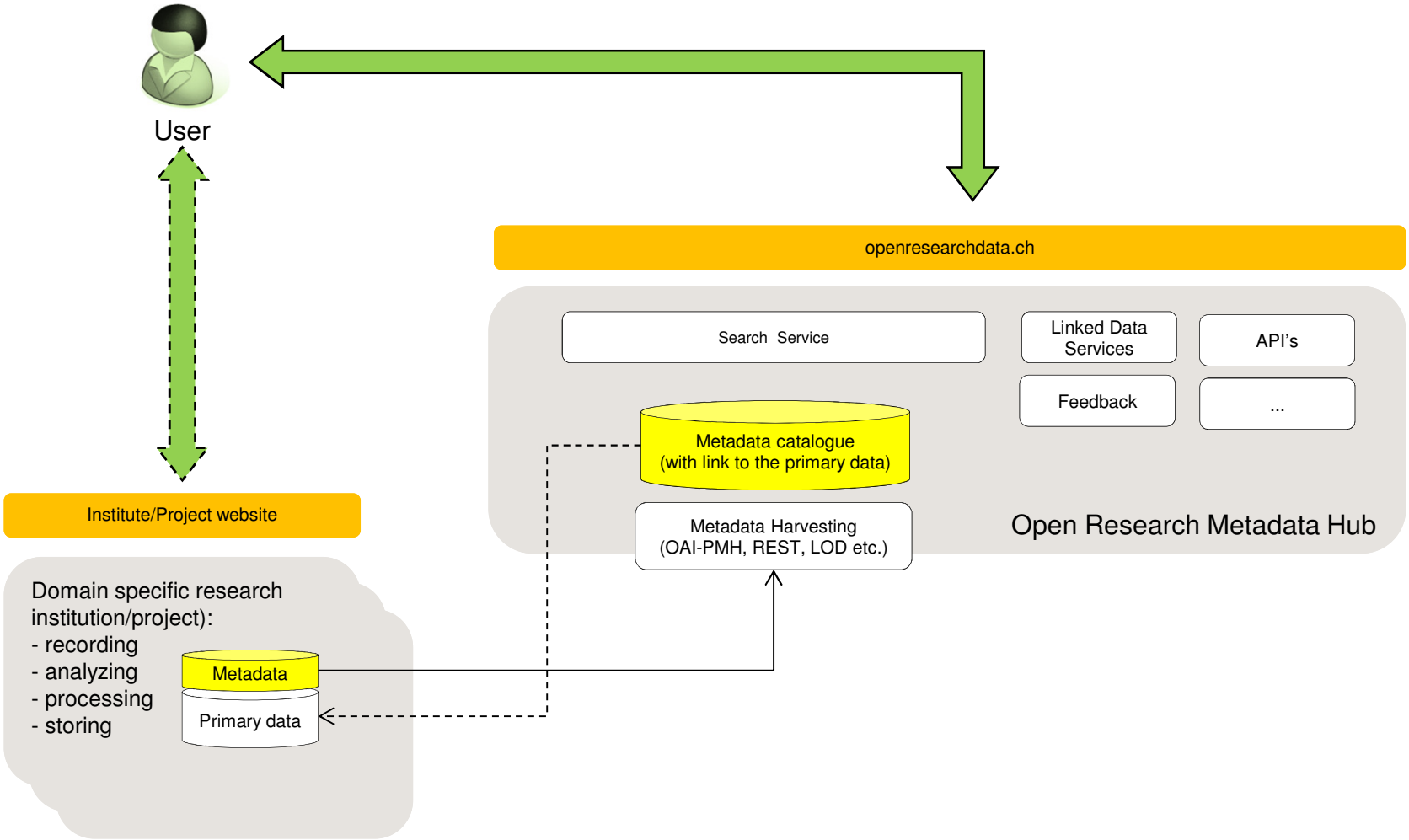
Approach: Metadata Hub



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Main functionalities

- Registration of the primary datasets in a central metadata catalogue («Metadata Harvesting»)
- Full text search of the metadata catalogue through a user friendly web interface.
- Access to the research data («primary data» in the repositories of the data producers) via URL or contact address.
- Communication between data producers and data users (forum, feedback concerning specific datasets, etc.)
- Additional services for the use of the research data (e.g. API's or Linked Data Services)

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CKAN as technical platform

- Open Source Framework of the Open Knowledge Foundation for the publication of Open Data (*de facto* standard)
- References: data.gov (US), data.gov.uk (UK), opendata.admin.ch (CH) and over 100 more examples (for research data as well)
- Main functionalities of CKAN:
  - Harvesting, publishing and managing metadata
  - Search and discovery
  - Web frontends (flexible CMS integration)
  - Federation (of different CKAN instances)
  - Extensions, API's, Visualisation
  - Community building

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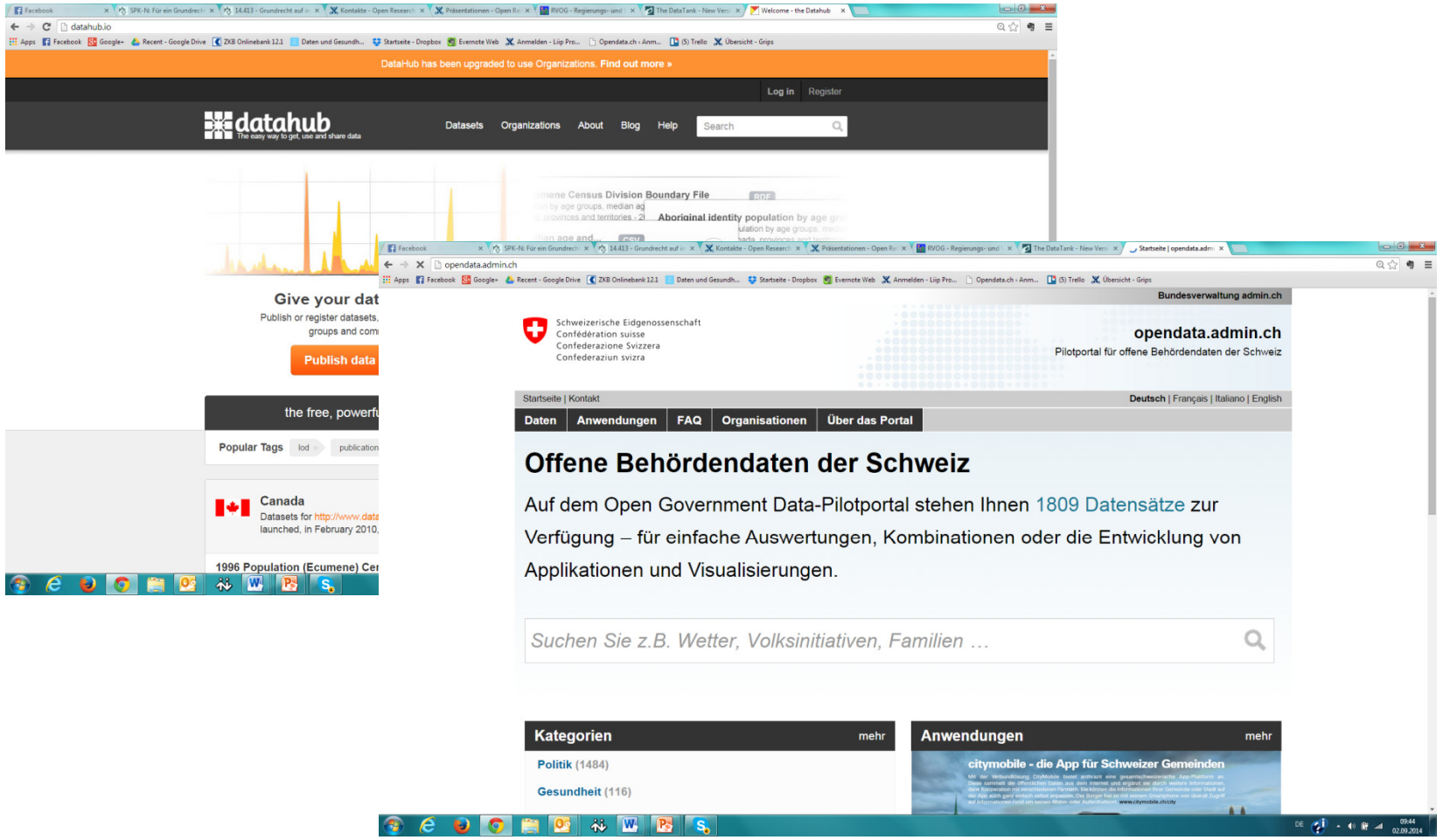
CKAN Demo



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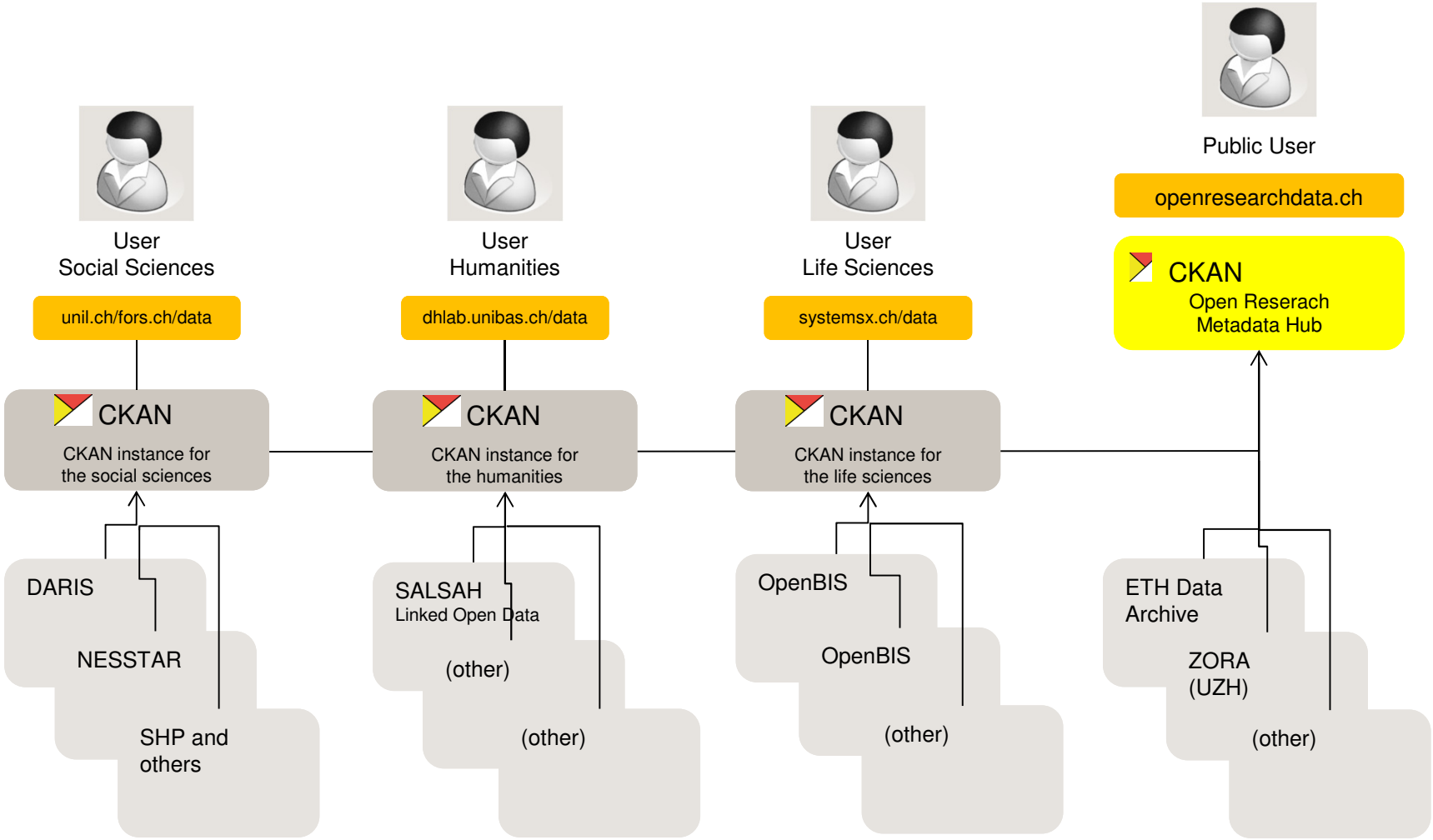
Federal architecture ORD@CH



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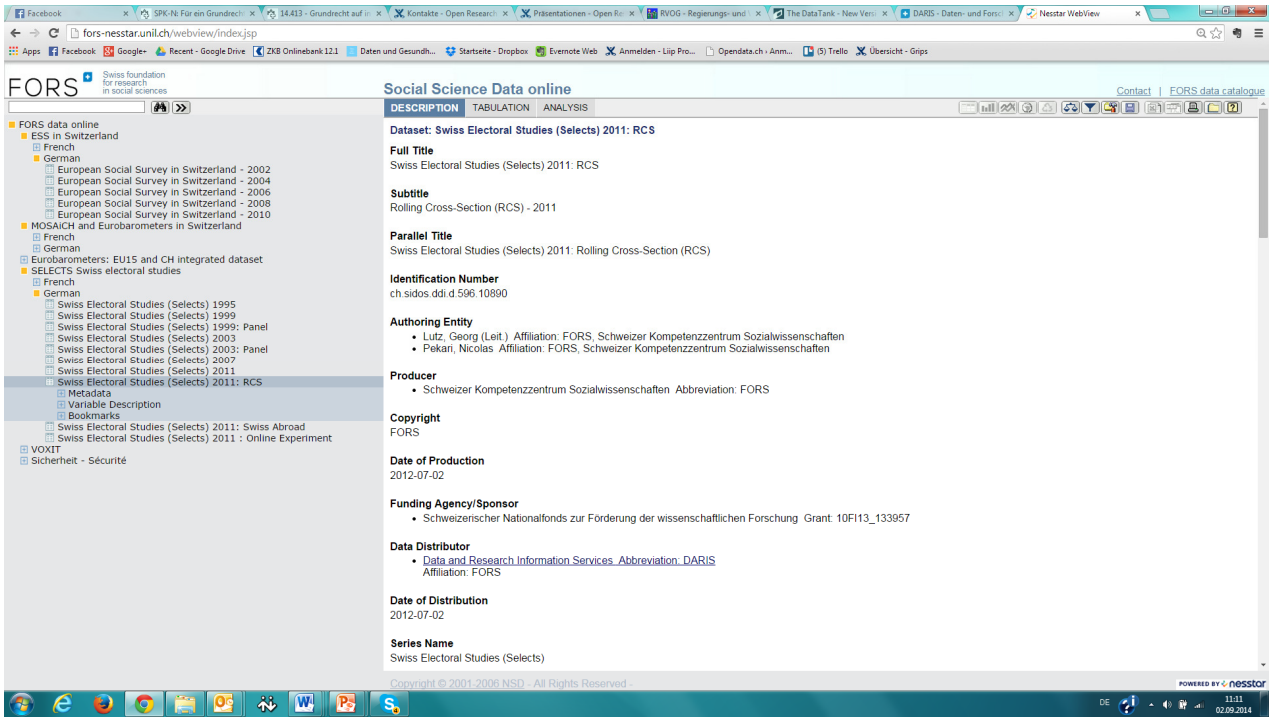
Subproject Social Sciences (FORS)

- Data sources FORS
  - **NESSTAR** (http://fors-nesstar.unil.ch/)
  - SHP
  - COMPASS
  - DARIS
  - FORSbase
  - …



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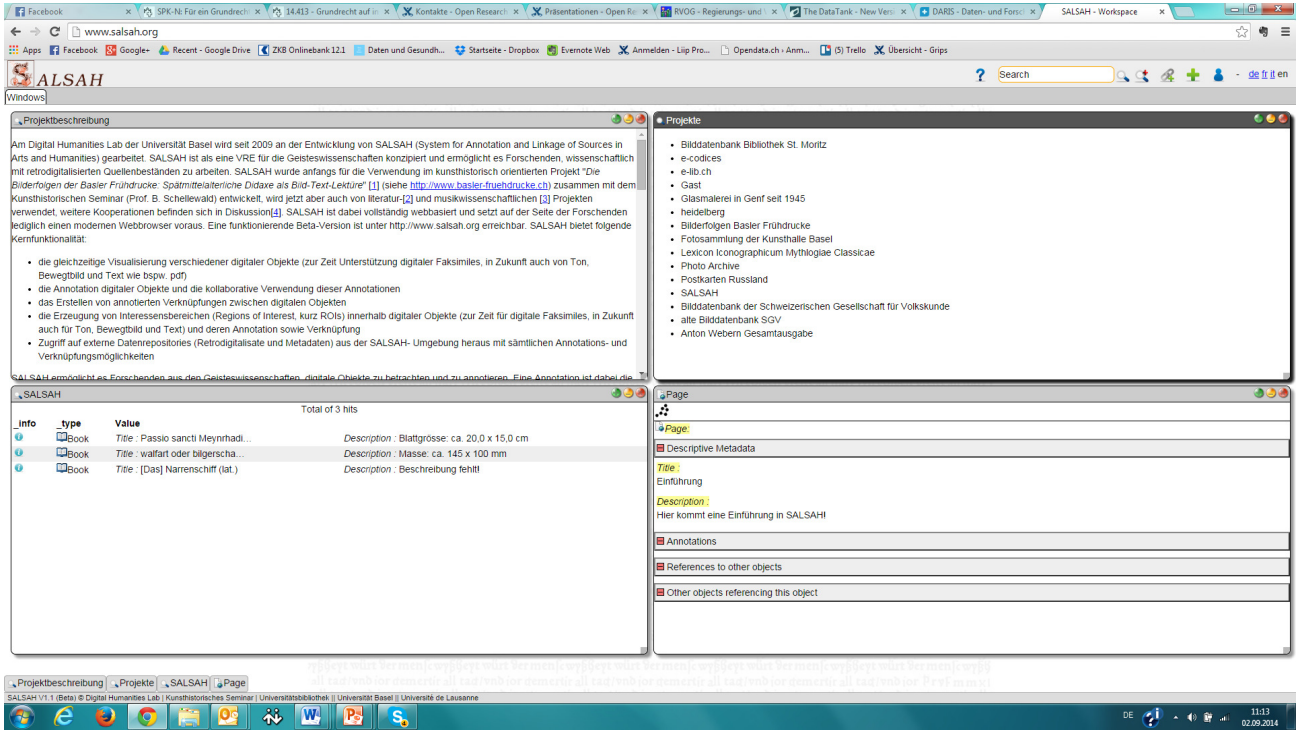
Subproject Humanities (DHLab)

- Data sources DHLab
  - **SALSAH** (http://www.salsah.org/)
  - …



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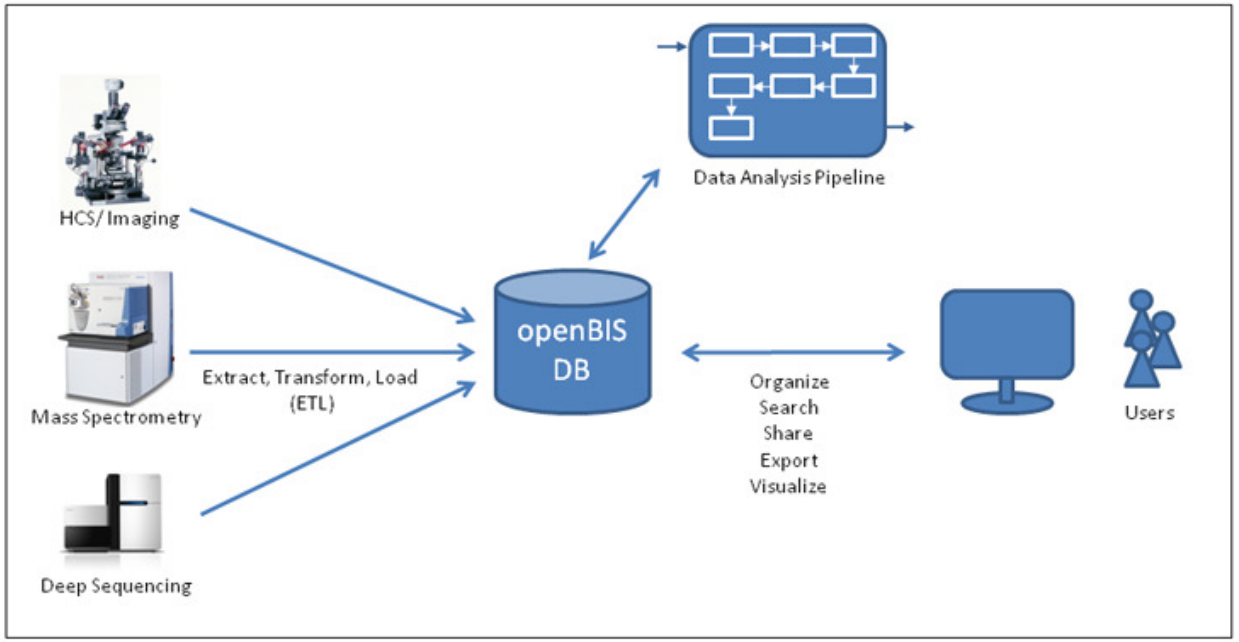
Subproject Life Sciences (ETH SIS)

- Data sources ETH SIS
  - **OpenBIS** (http://sybit.net/software/openBIS/)
  - …



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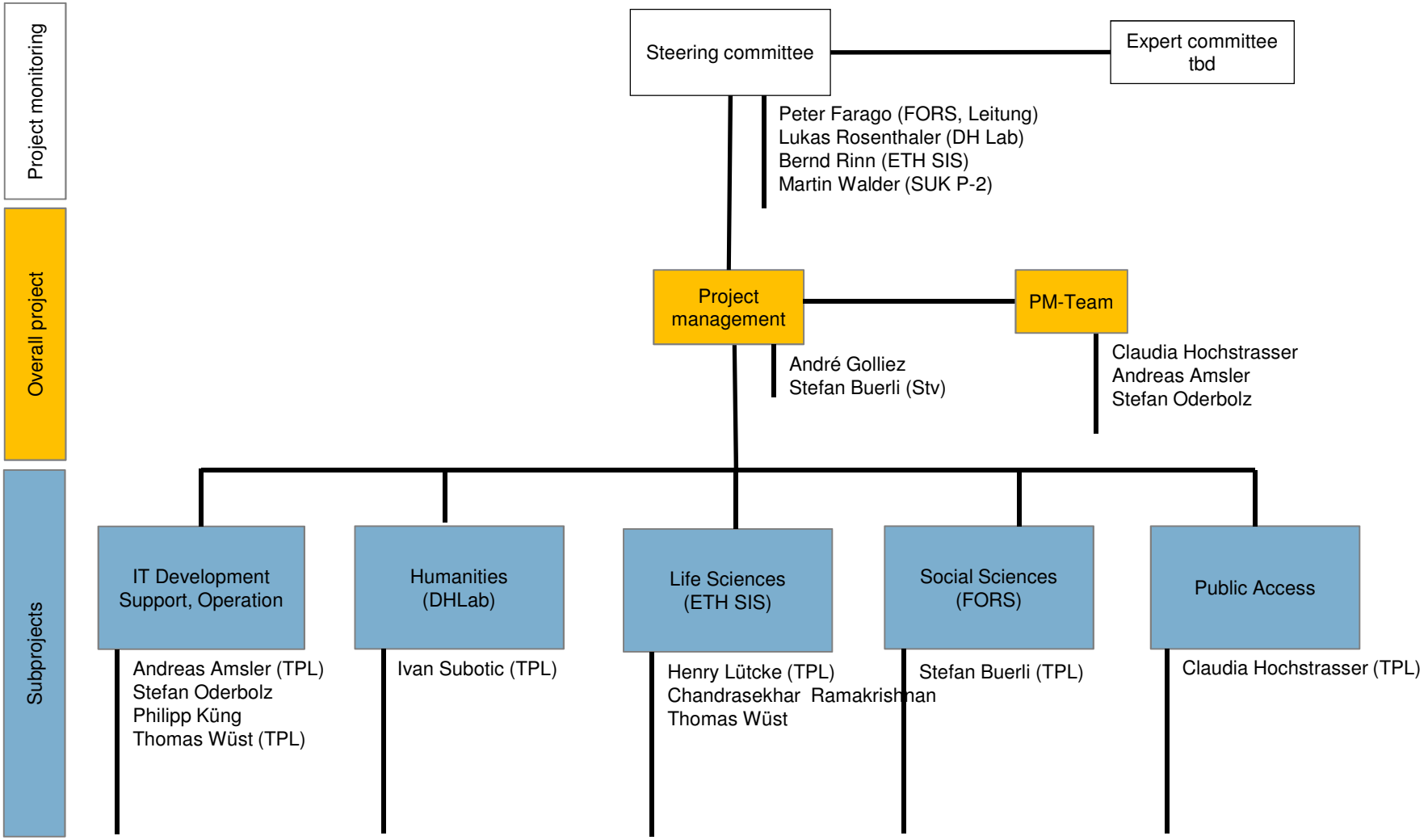
Project organization



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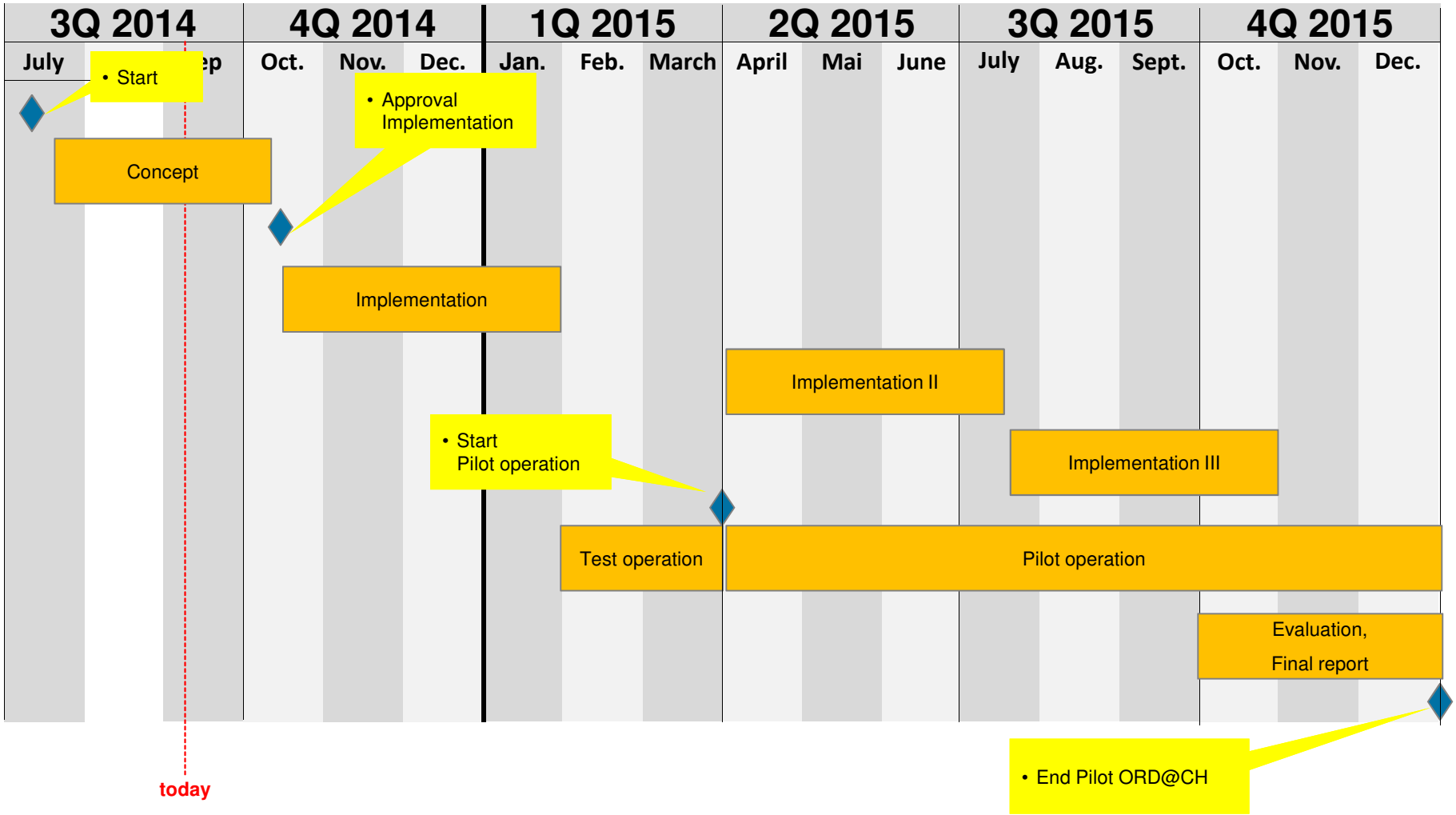
Rough planning



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Thank you for your attention! Any questions?…

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