eSciDoc-based Virtual Research Environments

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FIZ Karlsruhe

Agenda

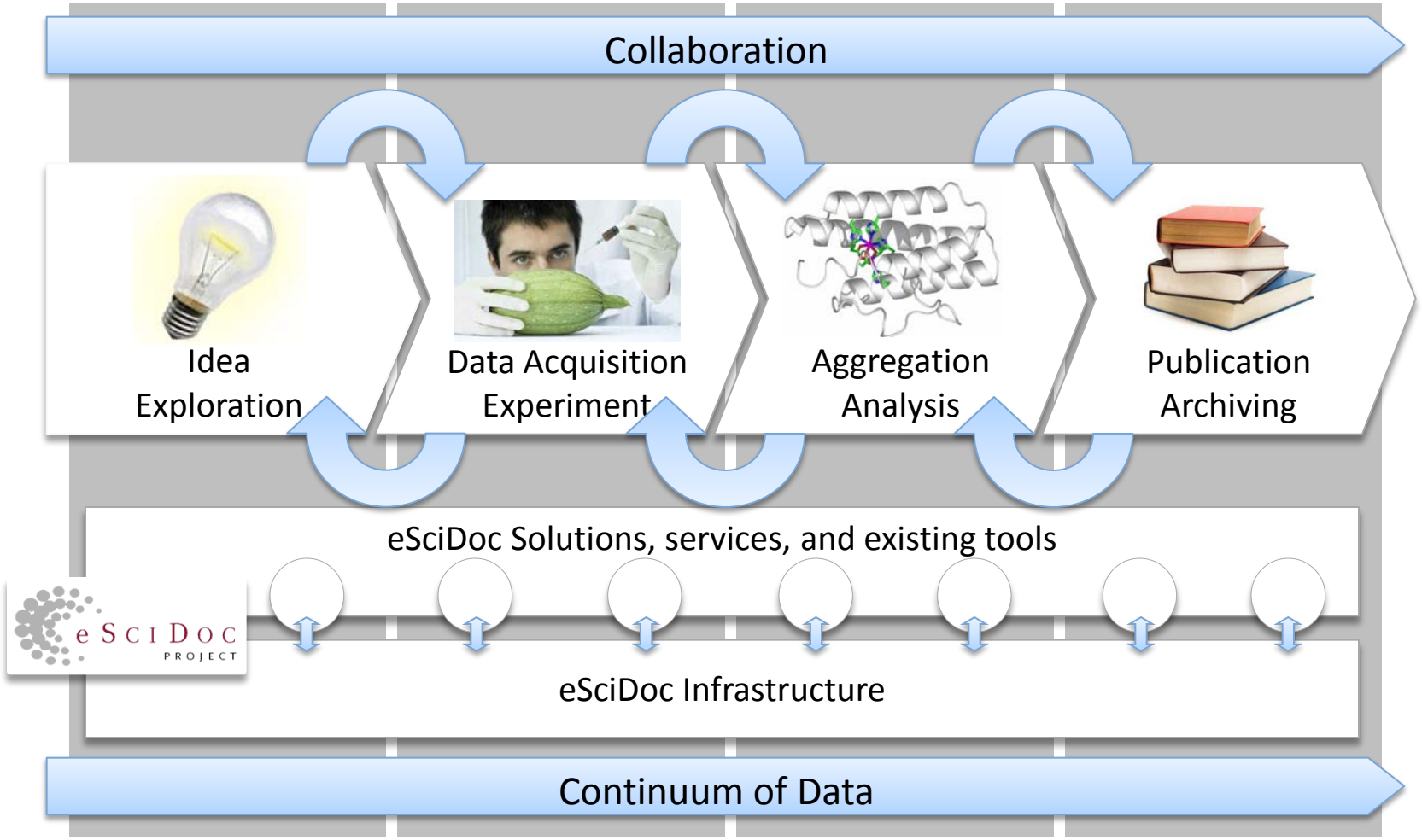
The Grand Vision

BW-eSci(T)

BW-eLabs

eSciDoc Services

The eSciDoc Grand Vision



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Agenda

The Grand Vision

BW-eSci(T)

BW-eLabs

eSciDoc Services

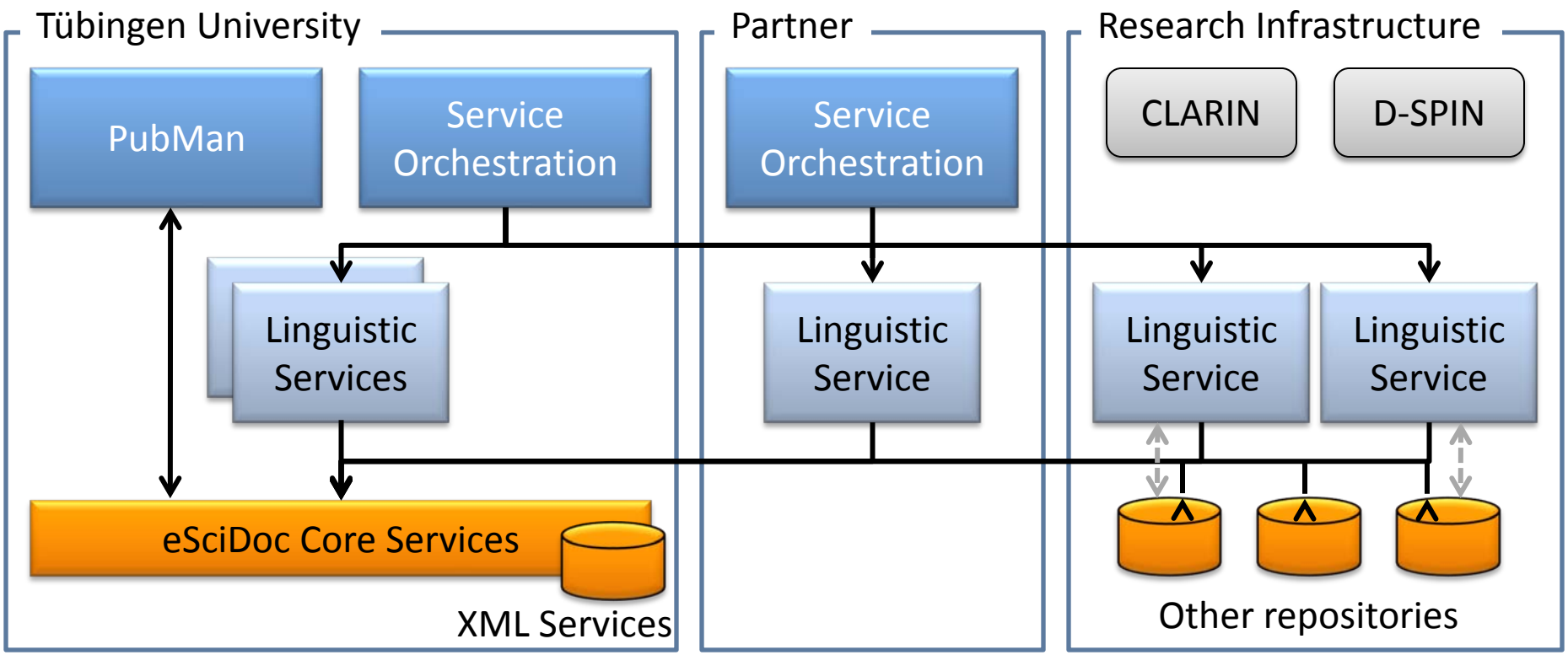
BW-eSci(T)

BW-eSci(T) will address the challenges of rolling-out an e-Research environment in the data center of a university, examplified by one discipline (Computer Linguistics). In the course of the project, necessary tooling for administrating eSciDoc will be developed and tested, as well as new linguistic capabilities and tools will be added to the eSciDoc Infrastructure.

Project Partners
- Tübingen University
- FIZ Karlsruhe

Status
- Started (10/2009)

BW-eSci(T): Distributed Linguistic Services



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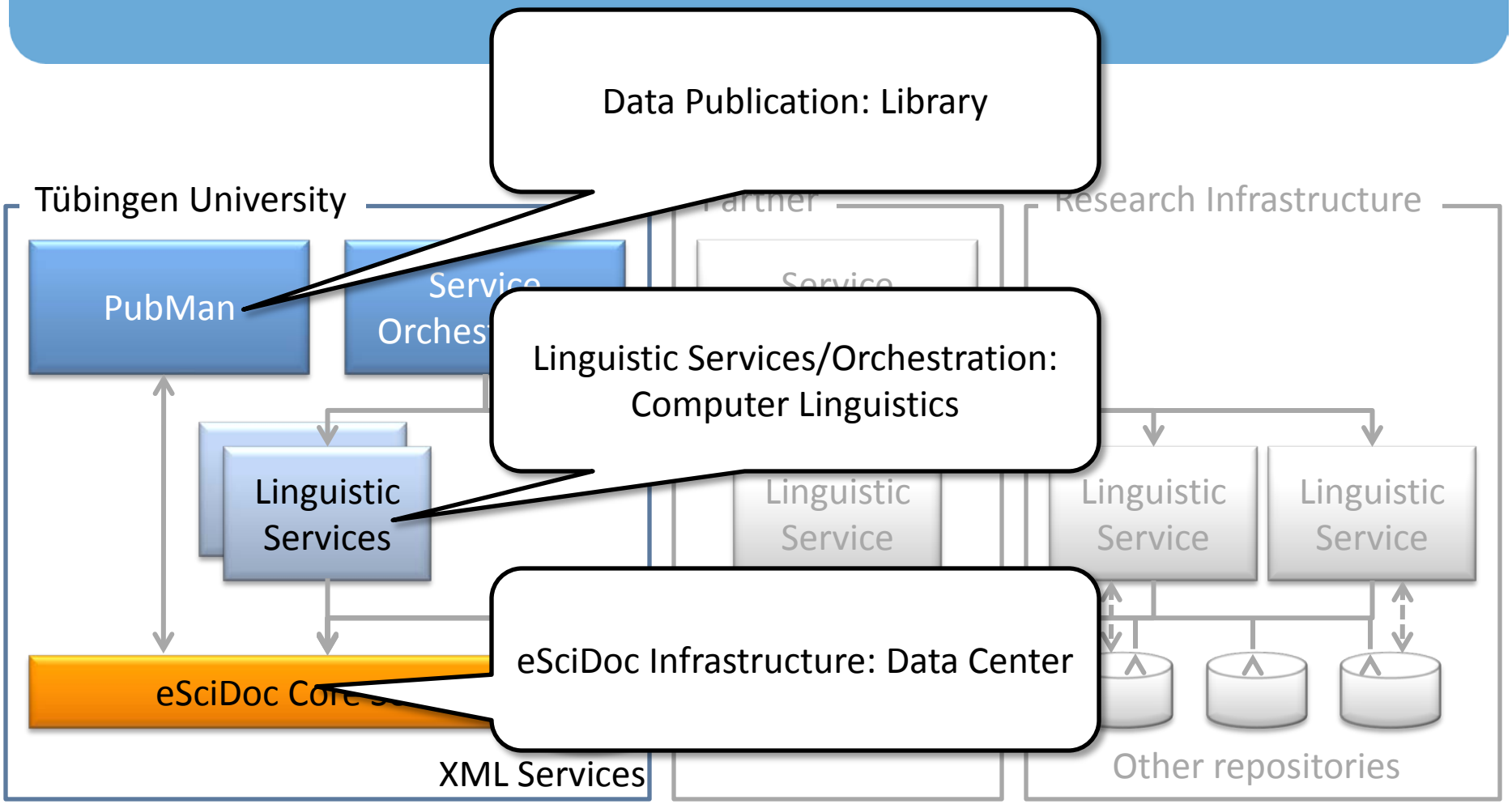
BW-eSci(T): Responsibilities



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BW-eSci(T): Contributions to the Scholar‘s Workbench

- Linguistic services
  - Not all of them will be freely available
  - Tokenizers, Lemmatizer, …
  - Mostly language-dependent
- (Orchestration Service)
  - Still under discussion
  - Technology not yet set

Agenda

The Grand Vision

BW-eSci(T)

BW-eLabs

eSciDoc Services

BW-eLabs

BW-eLabs gives access to virtual and remote experiments in the field of nano technology. Key concepts of the project include the reproducability of experiments, discoverability of and access to primary data, and the storage and curation of all artifacts that emerge throughout the research process.

Project Partners

- Stuttgart University
- HDM Stuttgart
- Freiburg University
- FIZ Karlsruhe

Status

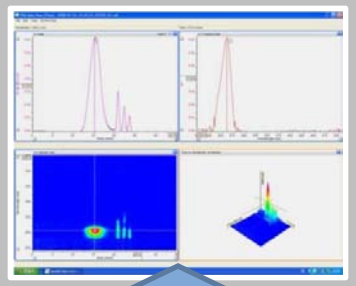
- Started (08/2009)

BW-eLabs: Experiments

Preparation

Synthesis and Online Analysis

Offline Analysis and Visualization



Publication

Common Data Infrastructure

eSciDoc PROJECT

Experiment

Experiment

Data Objects

Experiment

Data Objects

Experiment

Data Objects

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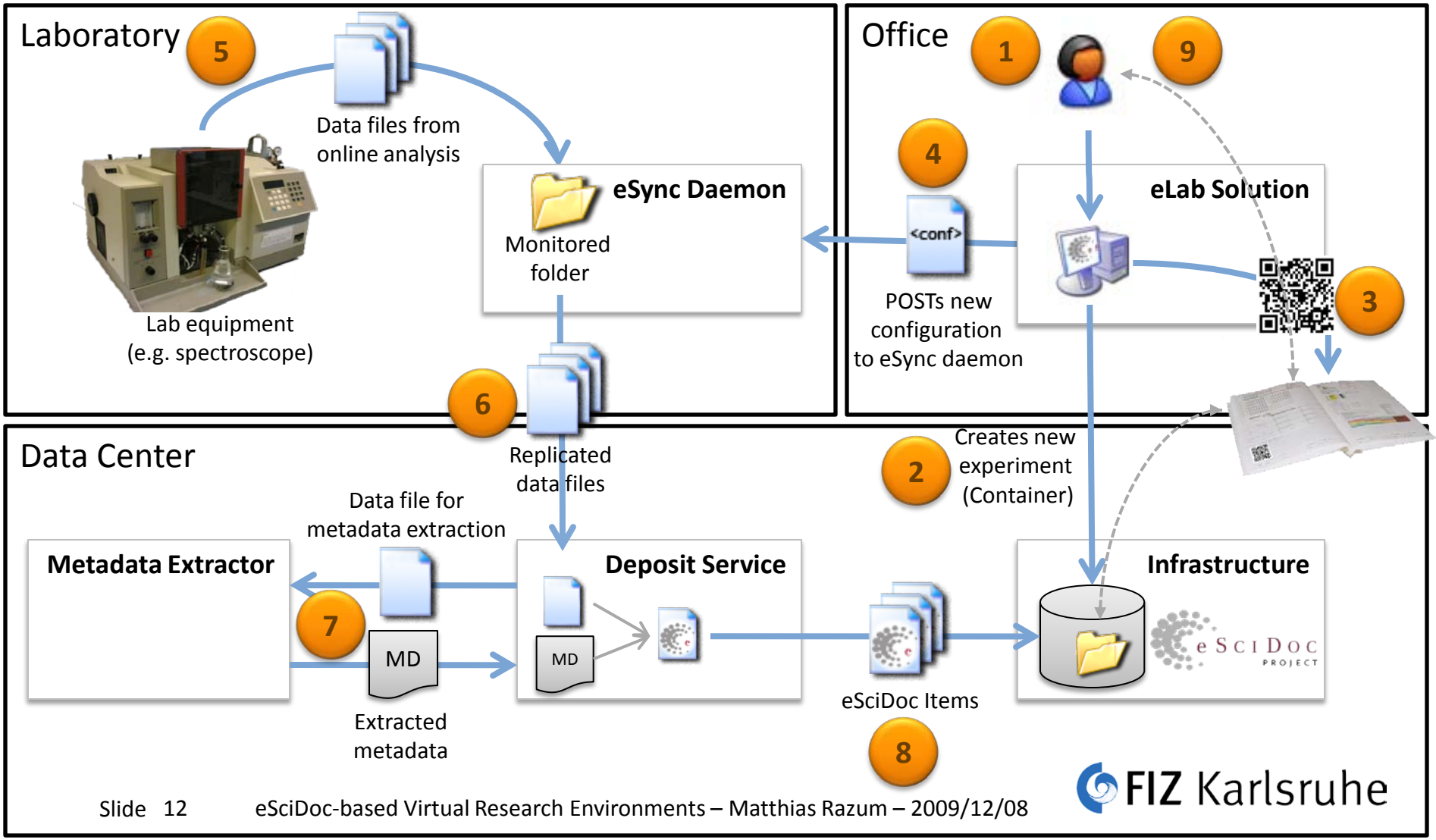
BW-eLabs: Data Acquisition in the Lab



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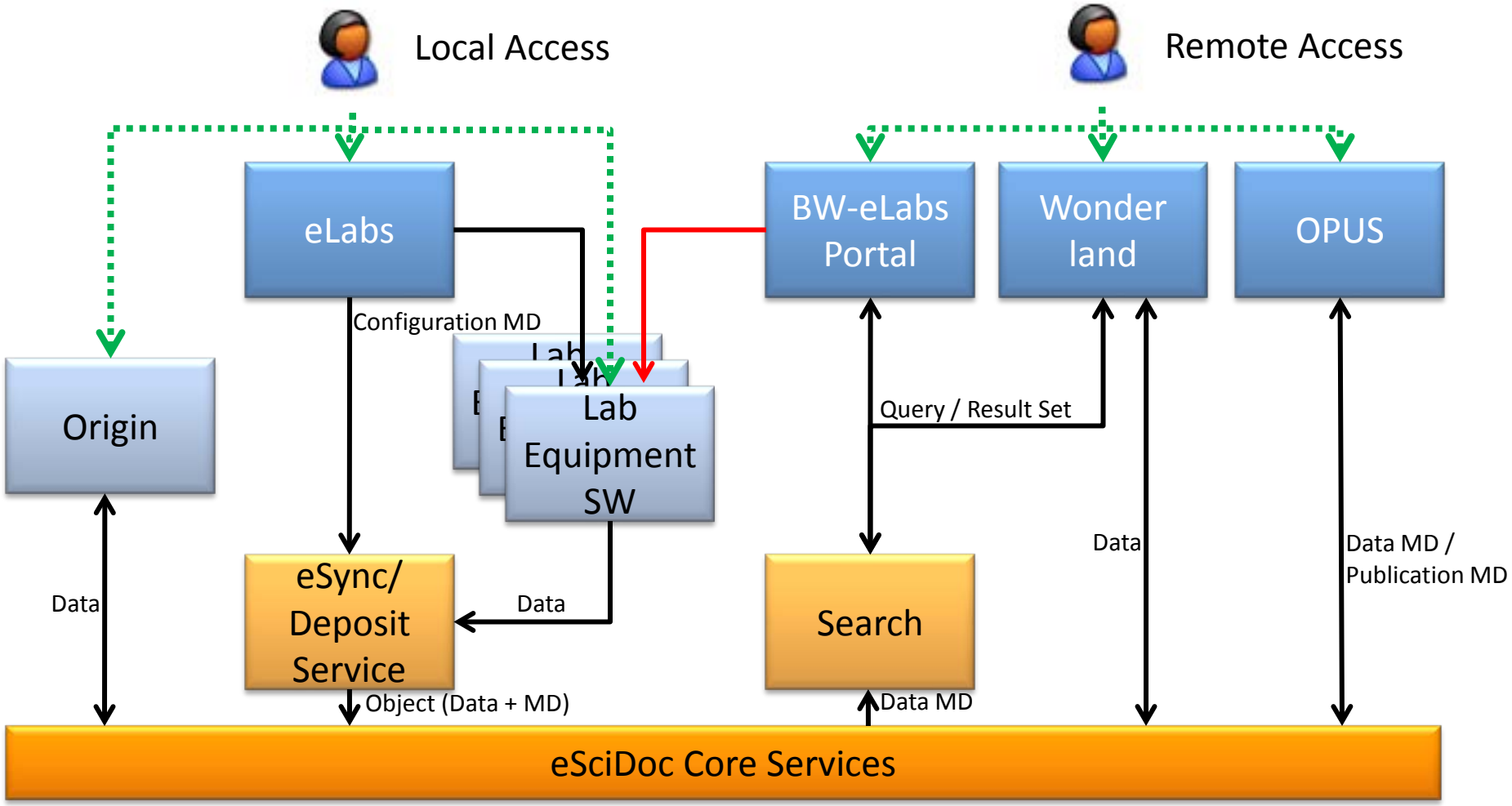
BW-eLabs: Overview



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BW-eLabs:
Contributions to the Scholar‘s Workbench

- QR Code Reader/Generator
  - Java-based, works only on Windows
  - Available as web service as well
- eSync Daemon
  - Java-based, works on Windows (Linux and MacOS will follow)
- Metadata Extractor
  - Java-based with plug-in architecture
  - Derived from Harvard‘s FITS service
- (Deposit Service)
  - Java-based, depends on eSciDoc as data sink
  - May be adapted to work directly with Fedora

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BW-eSci(T)

BW-eLabs

eSciDoc Services

eSciDoc Services

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Thank you !

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