



SLUB

Wir führen Wissen.

Rethinking the IT system architecture

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SLUB

Independent institution: Three libraries in one



University library of the Dresden university

Open access repository, Open journal system

Support for specific communities

- Art www.arthistoricum.net/en/
- Music musiconn.qucosa.de
- Mobility and transport



Library of Saxony

Legal deposit of media originated in Saxony

Lead of the state digitization program

State library with coordination and service functions



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Some key figures (2017)

73.000 Users

2.2 Mio Visits

6.6 Mio Downloads of digital documents

3.3 Mio Page views in our digital collections

2.7 Mio Digitized pages (own digitization and service providers)

316 Employees

11 Externally funded projects

70+ Business IT-Services for users and employees

419 Servers (most of them are virtual servers)

2.6 PB Disk and tape storage

63 Active data network components (without WLAN access points)



Rethinking IT system architecture / IT Organization

Goals and outline

Goals:

- Know IT services & systems, functionalities, importance
- Gain time for internal projects
- Prototypical development of innovative services
- Improvement of processes
- Evaluation of new technologies

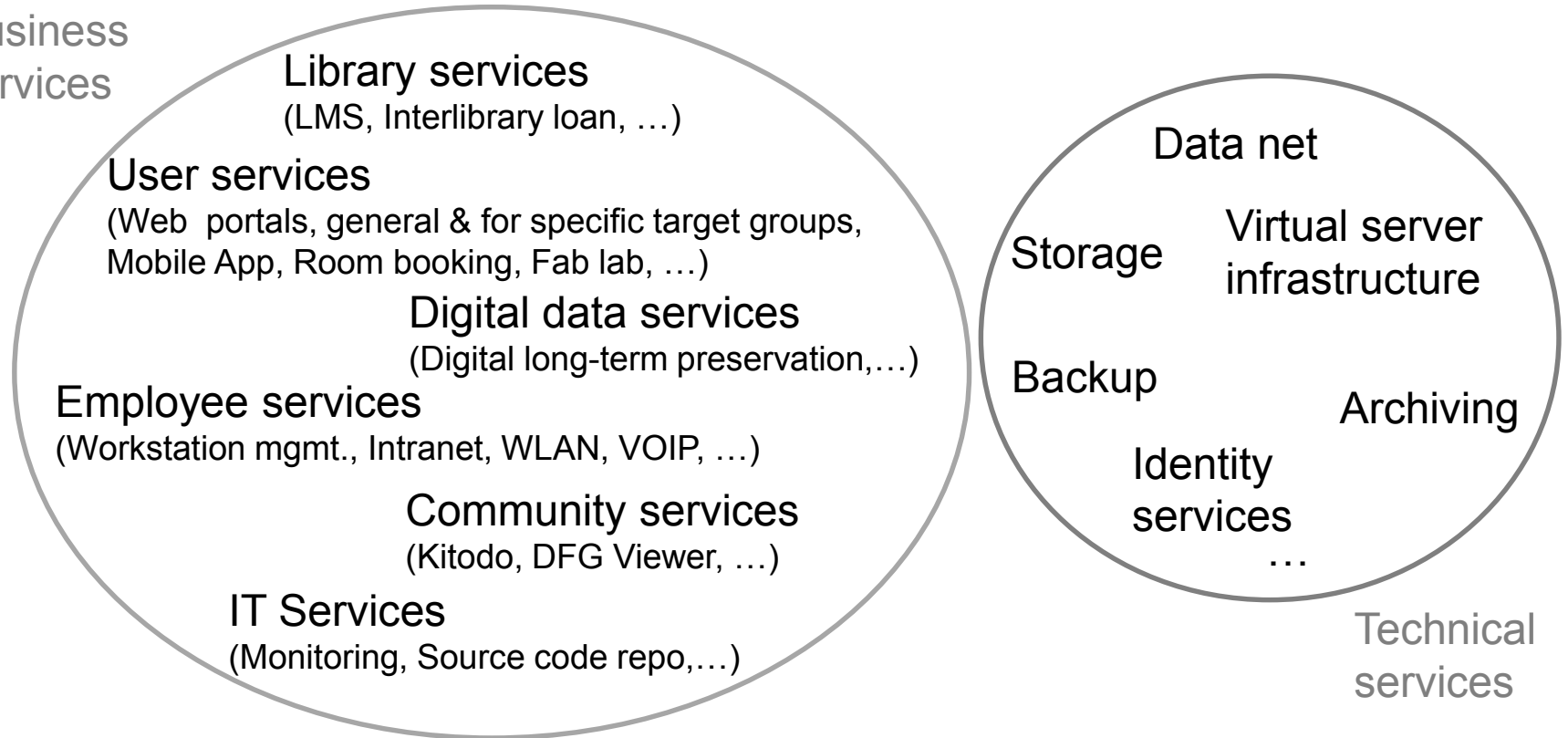
Outline:

- Current IT system architecture and challenges
- Target IT system architecture
- Projects

Current IT system architecture and challenges

Challenges

Business services



High number of IT Services

=> IT people are busy with hardware and software maintenance and continuously development / adaption to user and employee needs

Current IT system architecture and challenges

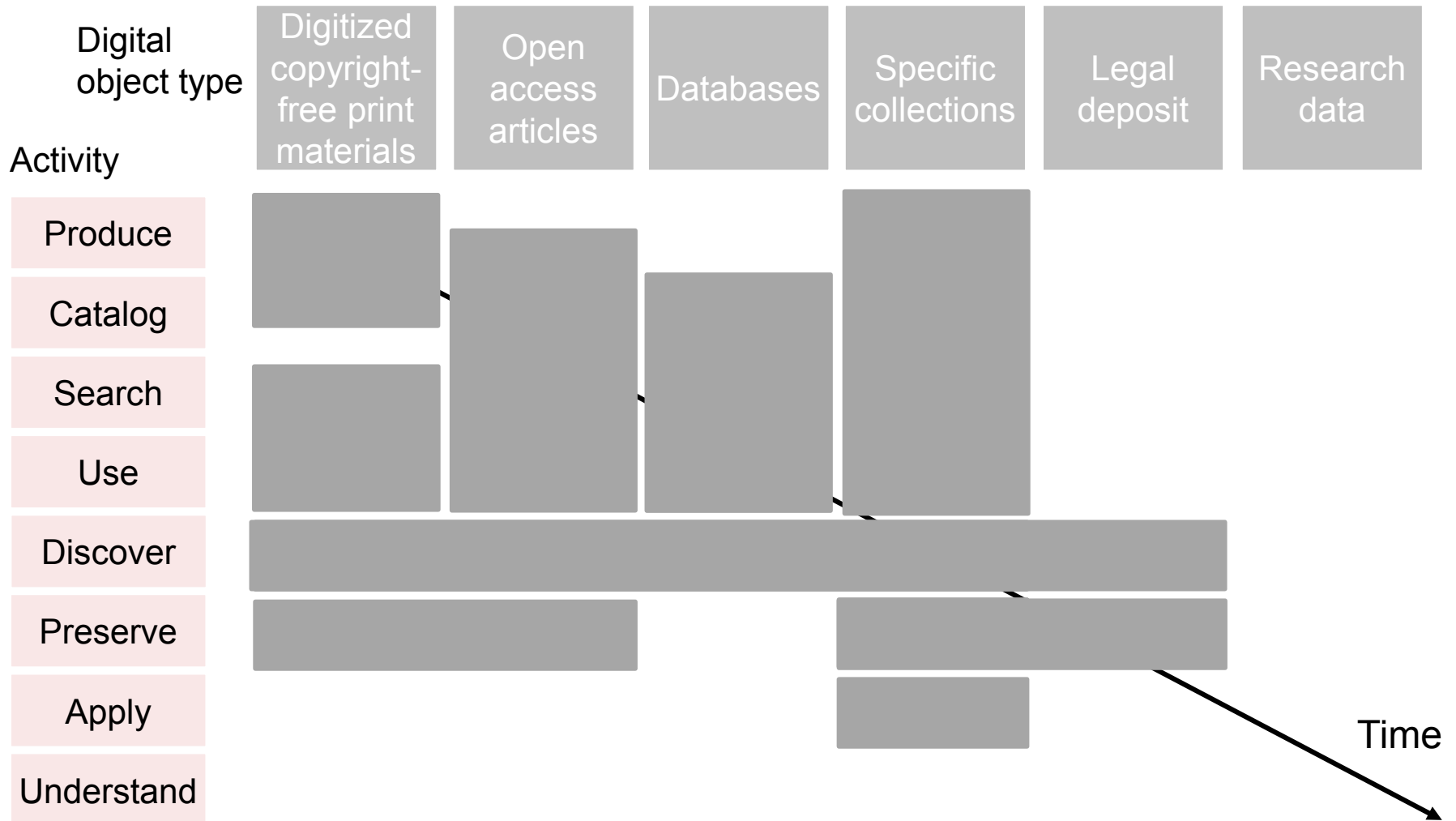
Challenges

In the past we had analog media and a simple IT system architecture.



Current IT system architecture and challenges

Challenges



Current IT system architecture and challenges

Challenges

Digital data management and services and the associated working processes have been developed as they were needed

- ⇒ Different systems for different types of digital objects with different functionalities and different processes: „Vertical“ solutions
- ⇒ Some functionalities are implemented multiple times and in a slightly different fashion

Digital objects are „caught“ within their systems

=> There are „mixed“ digital objects e.g. a journal has evolved from an analog one to a born-digital OA journal

Target IT system architecture

Consolidation

IT system architecture

Identify common functionalities and build horizontal services

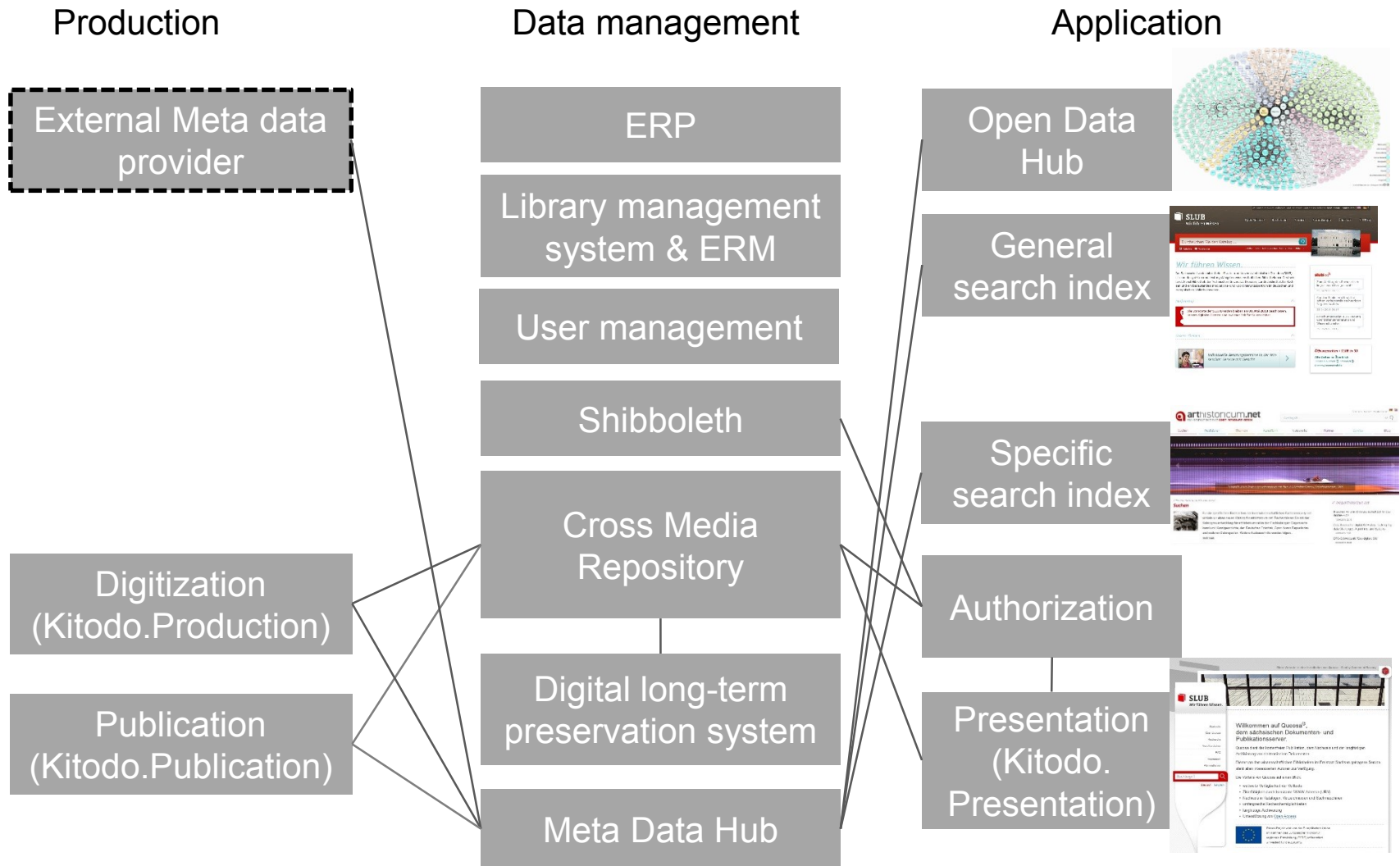
- One publication service (open access repository, legal deposit)
- One presentation service with specific extensions / one authorization service
- Replace „search“-functionalities by „discover“-functionality
- Design tools for „apply“ and „understand“ as broad as possible

IT organization

List all IT services in the SLUB Service Catalog with name, description, target groups, responsibilities, used privacy-related data, ... (ITIL, Data protection/GDPR, Information security)

- + Priorization of IT Business services
- + Evaluation of outsourcing options

Target IT architecture & IT organization Overview



Consolidation projects

Overview

Current projects

Project „Cross-Media Repository“

- Repository for all digital objects and their meta data, we are responsible for
- Publication service

Project „Linked Open Data“

- Meta Data Hub
- Open Data Hub

Planned projects

Project „eRessource Hosting“

- Authorization service

Project „3D Modelling“

- Presentation

Summary

Results

Done

- SLUB Service Catalog
- “Coarse” Target IT Architecture; description of the functionalities of the build blocks
- Alignment of running projects

Planned

- Targeted acquisition of projects
- Resource planning
- Check outsourcing options

Discussion

Do you have similar challenges/problems?

How do you solve them?



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Rethinking the IT system architecture and the IT Organization

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