SLUB
Wir führen Wissen.

Qucosa Project

Building a Cross Media Repository

$ whoami

❖ Ralf Claussnitzer

- Computer Science

- Library IT Department since 2008

  - Saxon State and University Library Dresden (SLUB)

- Software

  - Engineering, Development, Architecture, Operations

- Profiles

  - 🐦 @claussni

  - 🐙 github.org/claussni

  - in

Starting Point

❖ Institutional Repository Qucosa

- Multi-tenant
  - Universities, Schools, Research Institutions, Libraries
- Based on OPUS 4 and TYPO3
  - Two-Tier: Web Service Backend + CMS Frontend
    – Simple IR Software
    – Complex Content Management System
- Status Quo
  - End-Of-Project = End-Of-Resources
  - Resource Discovery System failed to replace simple search
  - High demand for new features
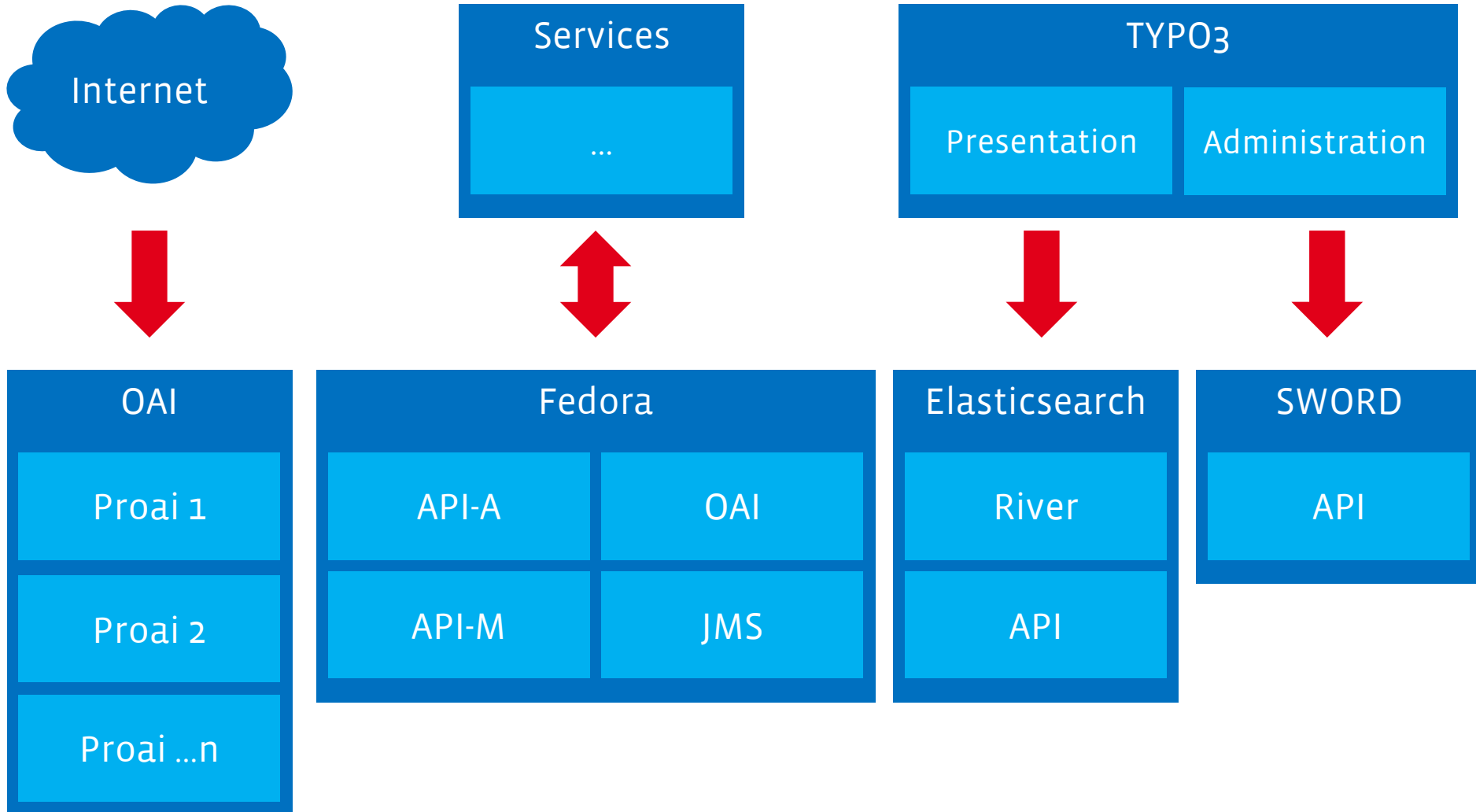 - Proprietary Legacy PHP

Why Fedora?

❖ Focus on Infrastructure

- Out-of-the-box software focused on IR use cases and UI
  - Higher level abstraction
- Loosely coupled services as key concept
- Storage independent from Metadata schema

❖ Problems we're facing

- Evolving metadata schemas
- Multitude of media types
- Legacy storage hardware
  - Migration is not reasonable
  - Potentially invalid data (some might be lost)

Architecture (idea)

Architecture (next)

- ❖ Further improvements
  - ■ Consequent use of JMS
    - • SOA with Microservices
  - ■ No Elasticsearch River Index
    - • Rivers are deprecated ☹
  - ■ Apache Camel
    - • Data transformations
    - • Message routing
  - ■ Fedora 4.x ☺
    - • Workspaces
    - • Graphs
    - • Federated Storage

Thanks!
Questions?