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Wir führen Wissen.



Data Management Platform and ERM

SLUB Dresden, UB Leipzig, AVGL und AKSW
ERDF Project, June 2013 – September 2014

27 March 2014
Libraries go Science 2.0 – Practical Spotlights
Science 2.0 Conference, Hamburg

Juan Garcés

Key facts

- ❖ **Funding:** EU Regional Development Fund, € 1.5 Mio, June 2013-September 2014
- ❖ **Partners:**
 - [SLUB Dresden](#)
 - [UB Leipzig](#)
 - [Avantgarde Labs](#)
 - [Agile Knowledge Engineering and Semantic Web](#)
(Research group, Leipzig Institute for Applied Informatics)
- ❖ **Components:**
 - (SLUB Dresden, Avantgarde Labs): Data Management Platform ([DMP](#))
 - (UB Leipzig, AKSW): Electronic Resource Management ([ERM](#))

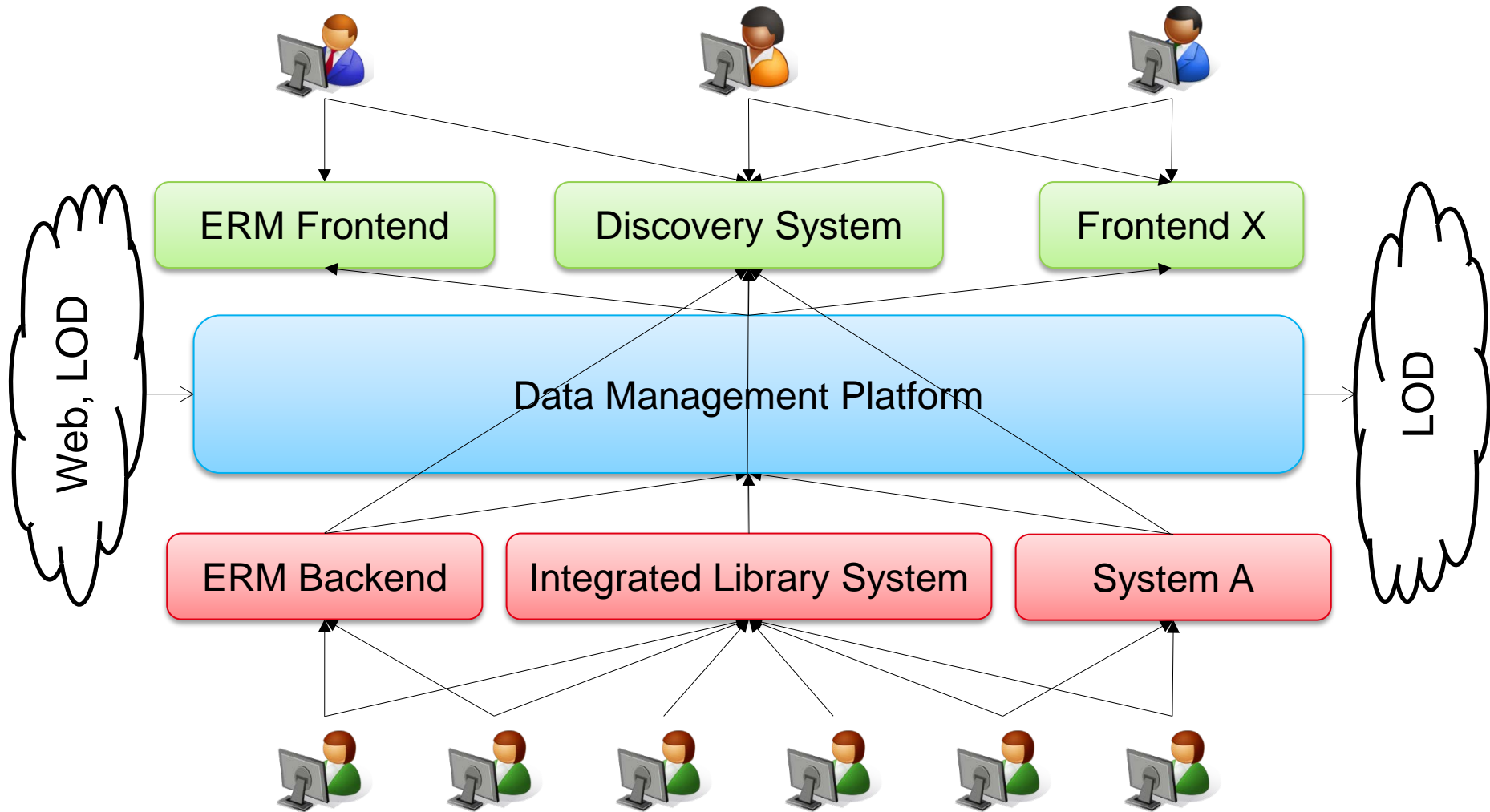
What is the Data Management Platform (DMP)?

- ❖ A tool for the large-scale **integration of data** from heterogeneous sources
- ❖ A **data modelling tool** with a graphical and easy-to-use interface that leads to a flexible, elastic, graph-based data model
- ❖ A **middleware solution** that sits between existing data management systems and presentation front ends
- ❖ An **Open Source platform** that will increase the **quality of library data** (by way of deduplication, merging, FRBRization, semantic enrichment and its publication as LOD)
- ❖ First implementation: a **Resource Management System**, as a web application for the management of library data.

Why?

- ❖ We depend on expensive yet insufficient tools for library data management and library automation.
- ❖ The software we use is generally proprietary and commercial with narrow limits regarding flexibility and scope.
- ❖ As a consequence, data remains locked into data silos and is prevented from the free and open use at the core of the emerging research paradigm.
- ❖ We need a solution for flexible and highly scalable data management because data is at the core of science 2.0.

Middleware Data Management Platform



Graphical User Interface

DMP 2000 Import Data Modelling Api Status: ● About Issues

▼ metadata

▼ oai_dc:dc

- dc:title Autoren
- dc.creator Redaktion, BIS
- ▼ dc:subject
 - dc:subject SLUB Dresden
 - dc:subject Sachsen
 - dc:subject Bibliotheken
 - dc:subject Saxony
 - dc:subject Libraries
 - dc:subject ddc:020
 - dc:subject nvk--
- dc:description Autorenliste des Heftes 4 / 2008
- dc:publisher Saechsische Landesbibliothek-Staats- und Universitaetsbibliothek Dresden
- dc:contributor SLUB Dresden, Allgemein
- dc.date 2008-12-16
- dc:type doc-type:article
- dc.format application/pdf
- ▼ dc:identifier
 - dc:identifier http://nbn-resolving.de/urn:nbn:de:bsz:14-ds-

Schema

▼ OAI-PMH

- ▼ GetRecord
 - ▼ record
 - ▼ header
 - identifier
 - timestamp
 - ▼ setSpec
 - type
 - ▼ metadata
 - ▼ oai_dc:dc
 - dc:title
 - dc:creator
 - dc:subject
 - dc:description
 - dc:publisher
 - dc:contributor
 - dc.date
 - dc.type
 - dc.format
 - dc:identifier

Target Schema

Select target schema

▼ OAI-PMH

- dc:title
- dc:creator
- dc:subject
- dc:description
- dc:publisher
- dc:contributor
- dc:date
- dc.type
- dc.format
- dc:identifier
- dc:source
- dc:language
- dc:relation
- dc:coverage
- dc:rights

Target Data

▼ OAI-PMH

- ▼ dc:subject
 - dc:subject SLUB Dresden
 - dc:subject Saxony
 - dc:subject Bibliotheken
 - dc:subject Libraries
 - dc:subject Library & information sciences
 - dc:subject nvk--

Function: replace

String replace based on a regular expression. Pattern syntax corresponds to Java Regular Expressions.

pattern

with

The replacement

Function List Widget Run all transformations

subject

Run Transformation

dc:subject

replace

→

replace

→

split

→

trim

→

unique

dc:subject

htmlanchor

isbn

lookup

normalize-utf8

not-equals

occurrence

regexp

replace

setreplace

split

substring

switch-name-value

trim

unique

urlencode

whitelist

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Sächsische Landesbibliothek – Staats- und Universitätsbibliothek Dresden

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Thank you!

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❖ **Further information:**

<http://dmp.slub-dresden.de/en/>