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UND SERVICE GMBH

The logo for 'obv sg' is positioned in the upper right area of the slide. It features the letters 'obv' in a bold, lowercase, sans-serif font, followed by 'sg' in a lighter weight of the same font. A thin vertical line descends from the top orange border to the top of the 'obv' text. From the bottom of this vertical line, several thin orange lines radiate downwards and to the left, ending at the top edge of the dark grey content box.

## Exploiting DBPedia for use in Primo

Ulrike Krabo

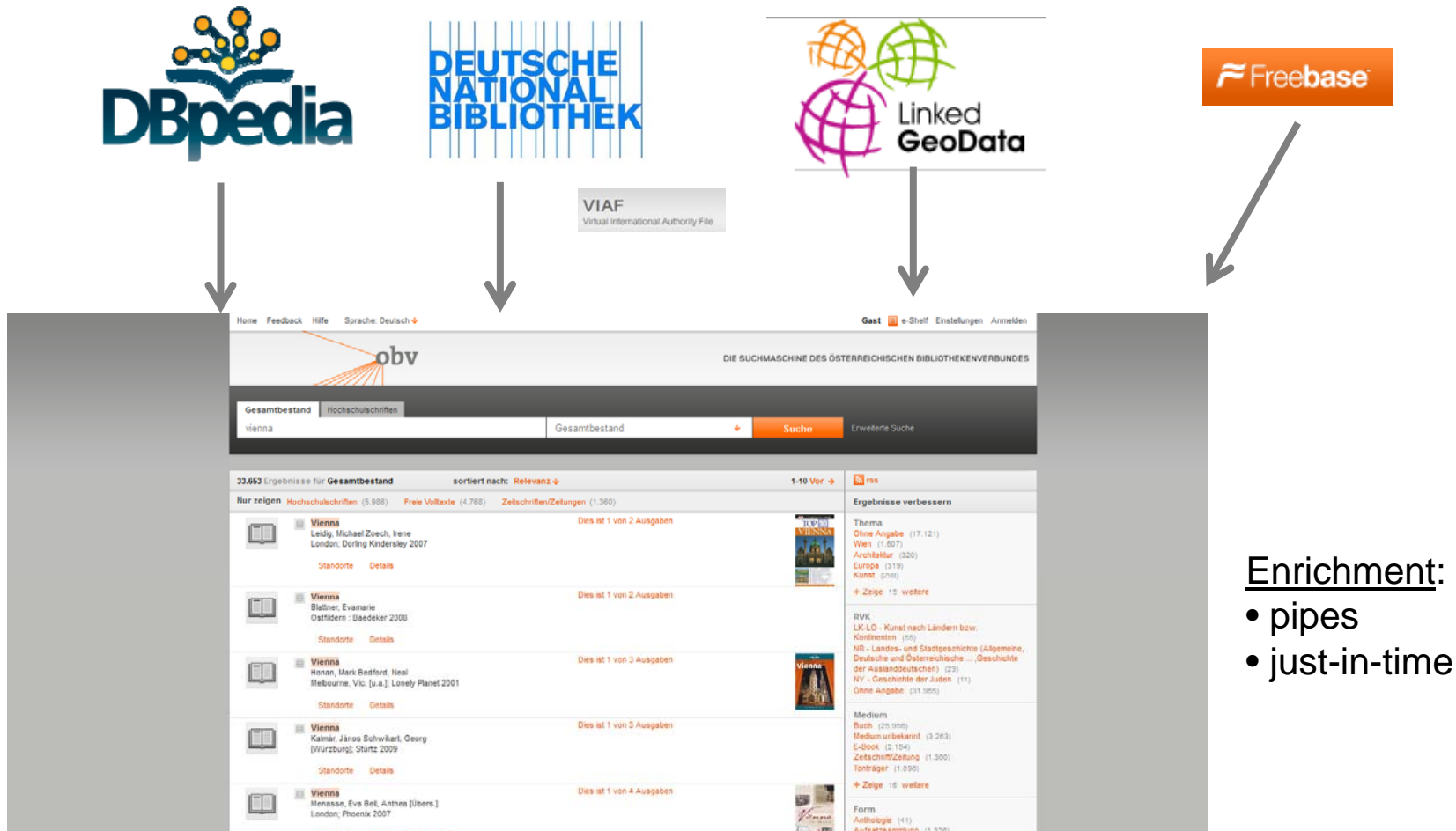
IGeLU 2011, Haifa, Linked data and ExLibris products

# More context!

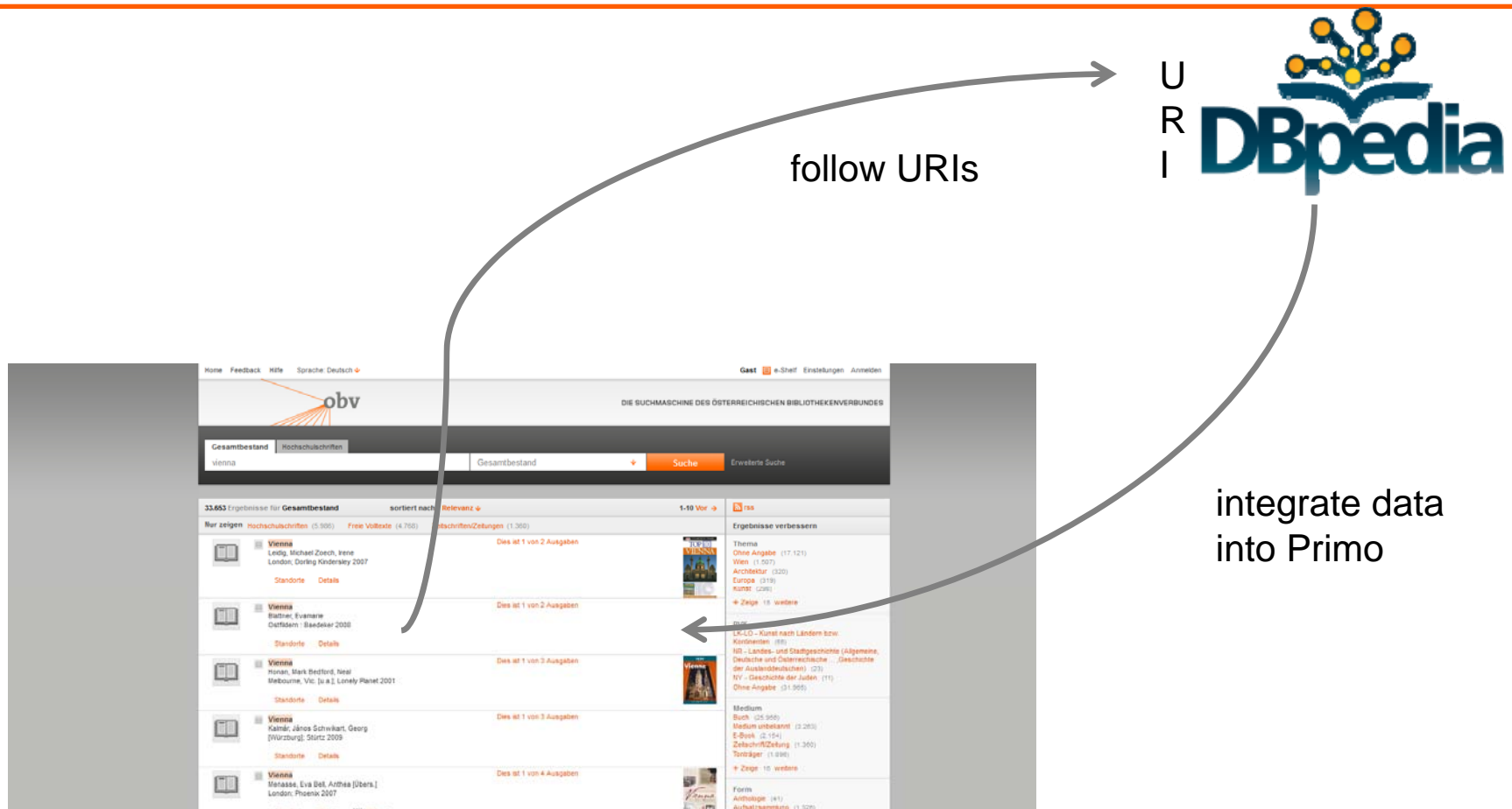
for authors,  
subjects,  
locations

...

# Idea – enrichment with linked data sources

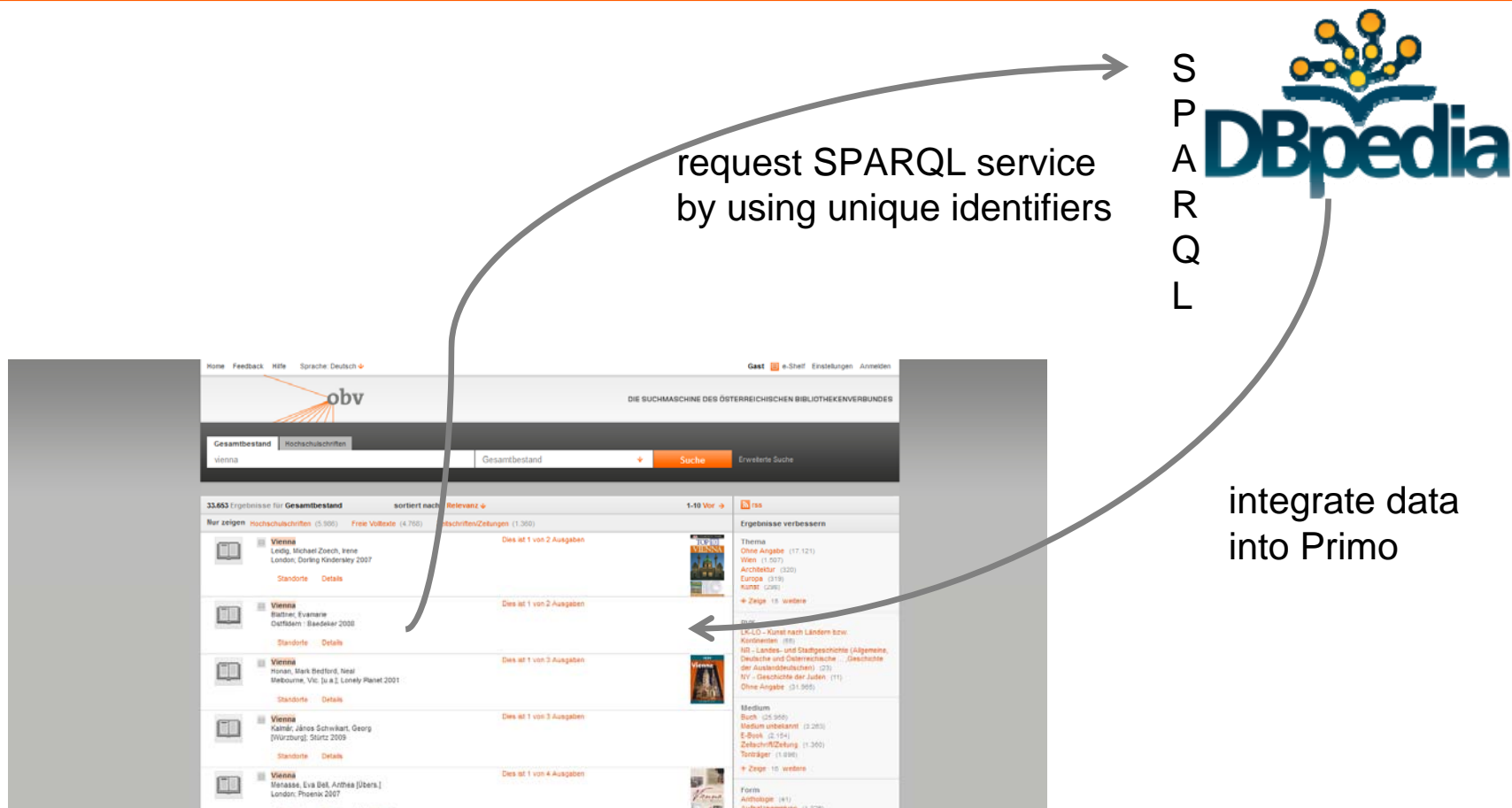


# The linked data approach (1)



Problem: no URIs

## The linked data approach (2)



## Identifier

- **For the SPARQL approach**
  - Unique identifiers!
  - Otherwise queries would be too expensive
- **We have unique identifiers for german authority file (GND)**
  - For persons (PND)
  - For subjects (SWD)
  - For institutional bodies (GKD)
- **Wikipedia also uses PND!**
- **GND is also part of the VIAF project**

## Problems of the SPARQL approach

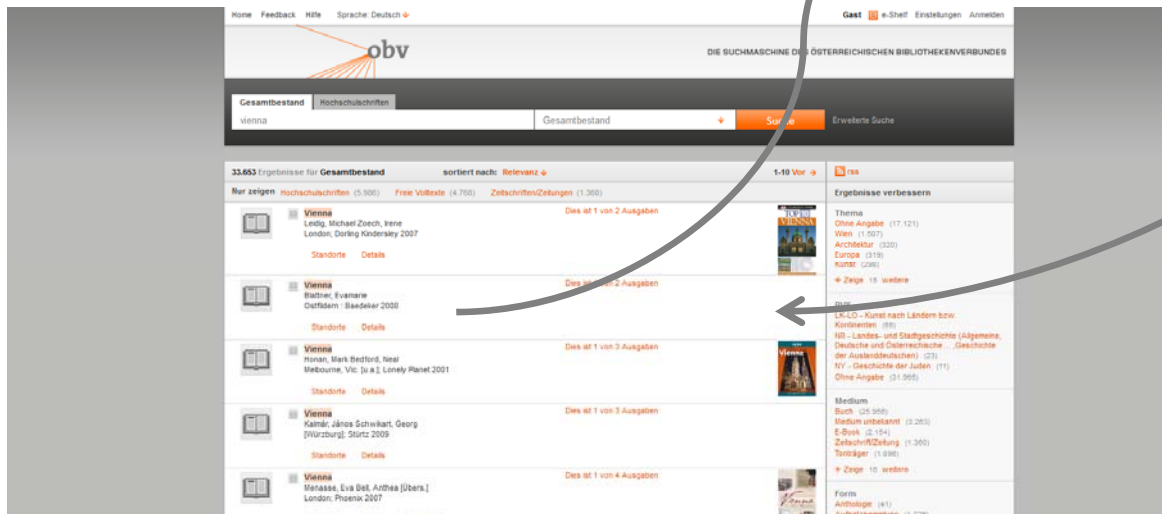
- **Reliability**
- **Availibility**
- **Performance**

# Our solution (1)

request local webservice by using AJAX requests



integrate JSON data into Primo





## Our solution (2)

The screenshot shows the search interface of the Austrian Library Association (obv). The search bar contains 'berners-lee' and the search button is labeled 'Suche'. The results page shows 152 results for 'Gesamtbestand', sorted by 'Relevanz'. Two book entries are visible:

- Weaving the Web : the past, present and future of the world wide web by its inventor** by Berners-Lee, Tim (1999). This entry has a 'Wikipedia' link highlighted with a red box.
- Weaving the web : the original design and ultimate destiny of the world wide web by its inventor** by Berners-Lee, Tim Fischetti, Mark (2005). This entry also has a 'Wikipedia' link highlighted with a red box.

Below the second entry, a red box highlights a detailed information box for the author:

**Informationen zum/zur Autor(in) Tim\_Berners-Lee**  
Sir Timothy John Berners-Lee, OM, KBE, FRS ist ein britischer Informatiker. Er ist der Erfinder der HTML (Hypertext Markup Language) und der Begründer des World Wide Web. Heute steht er dem World Wide Web Consortium (W3C) vor und ist Professor am Massachusetts Institute of Technology (MIT). ... [weiterlesen](#)  
Relevante Wikipedia-Artikel zum Buch: [0-00-251567-X](#)  
Ontologie (Informatik)  
Semantisches Web

On the right side of the results page, there are filters for 'Thema' (Ohne Angabe (89), Semantic Web (13), World Wide Web (10), etc.), 'RVK' (Ohne Angabe (149), SQ-SU --- Informatik (3)), 'Medium' (Buch (145), E-Book (33), etc.), and 'Form' (Erlebnisbericht (2), Form unbekannt (143), etc.).

## Further Steps

- **Enrich wikipedia tab with image, categories, ...**
- **Improve performance of tab integration**
- **Use other linked data datasets**
  - GND (German Authority File) for authors and subjects
  - Linked geo data for locations
  - Europeana

## The best consuming approach

- 1. Use URIs*
- 2. Use SPARQL Services / semantic indexes*
- 3. Use Caching*

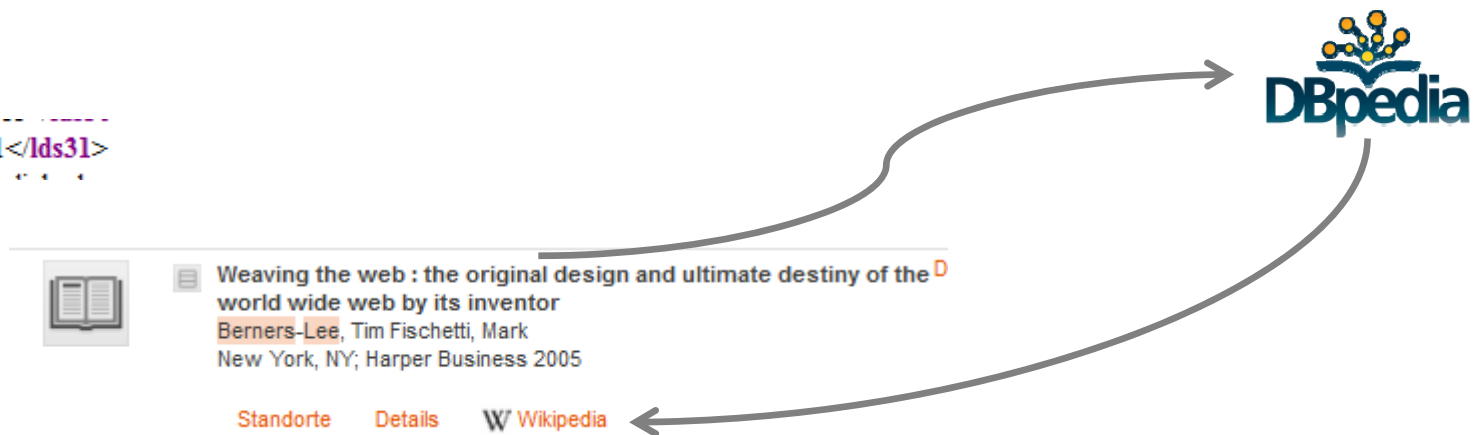
## Suggestion 1

(just in time) Enrichment Configuration in back office:

1. Location of SPARQL endpoints
2. SPARQL query to enrich one specific field of pnx record
3. Choose trustworthy sources/SPARQL endpoints with fixed fields in the PNx
4. Flexible display of results: table, map, graph

### Use Case:

```
<lds31>121649091</lds31>
```



## Suggestion 2

New search type:

federated, deep search, local, + LD search?

New harvesting type:

harvesting from SPARQL-Services

***Thank you for your attention!***

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