Multiscale Exploration of Spatial Statistical Datasets
A Linked Data Mashup Approach

Ba-Lam Do, Tuan-Dat Trinh, Peter Wetz, Elmar Kiesling, Amin Anjomshoaa, A Min Tjoa

Linked Data Lab, Vienna University of Technology
http://ldlab.ifs.tuwien.ac.at/
Problem Statement

- Number of statistical datasets is growing rapidly
- Exploration tools analyze only *individual* data sources and have an *unexciting* scenario
  - Input: Sparql endpoint
  - Output: Visualization of its datasets
- **Not open** for reusability and difficult to extend provided functionality
Objectives

- **Exciting scenario:**
  - Input: address(es)/location(s)
  - Output: datasets of *multiple* sources relating to the input

- **Open mashup platform**
  - Support data integration from different datasets
  - Openness and reusability
List of endpoints

- Digital agenda for Europe
- Open Government Wien
- census 2011 RESULTS
- Linked statistics
- OpenDataCommunities.org
- Open Access to Local Data
- UNODC

6000 locations

60k locations

Use Google Geocoding API

https://developers.google.com/maps/documentation/geocoding/
Example

http://linkedwidgets.org/MashupPlatform.html?id=MashupSpatialDataComparator
Thank you very much for your attention!

Contact:
Ba-Lam Do
Linked Data Lab
Institute of Software Technology and Interactive Systems
Vienna University of Technology, Austria

http://ldlab.ifstuwien.ac.at
lam@ifs.tuwien.ac.at
Compare Bus, Tram, and Metro

**Bus Vehicle**
- **Dimension**: Year: from 2007 to 2012
- **Measures**:
  - All measures
  - Number of passengers (million)
  - Number of seats
  - Average speed (km/h)
  - Number of stops
  - Number of buses

**Tram Vehicle**
- **Dimension**: Year: from 2007 to 2012
- **Measures**:
  - All measures
  - Number of passengers (million)
  - Number of seats
  - Average speed (km/h)
  - Number of stops
  - Number of sidecars

**Metro Vehicle**
- **Dimension**: Year: from 2007 to 2012
- **Measures**:
  - All measures
  - Number of passengers (million)
  - Number of sidecars
  - Number of lines
  - Line length (km)
  - Average speed (km/h)
  - Number of stops

**Type of chart**
- Column chart
- Line chart
How to create widget

Generating widgets from statistical datasets which use the RDF Data Cube Vocabulary

Sparql endpoint: http://digital-agenda-data.eu/data/sparql

RUN
How to create widget

List of datasets

Check datasets that you want to convert, then click RUN button

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<th>URL</th>
<th>All</th>
</tr>
</thead>
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<td>2</td>
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</tbody>
</table>
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