



Amsterdam  
Data Science

# The RDF Unified Migration Portal

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partners



UNIVERSITEIT VAN AMSTERDAM

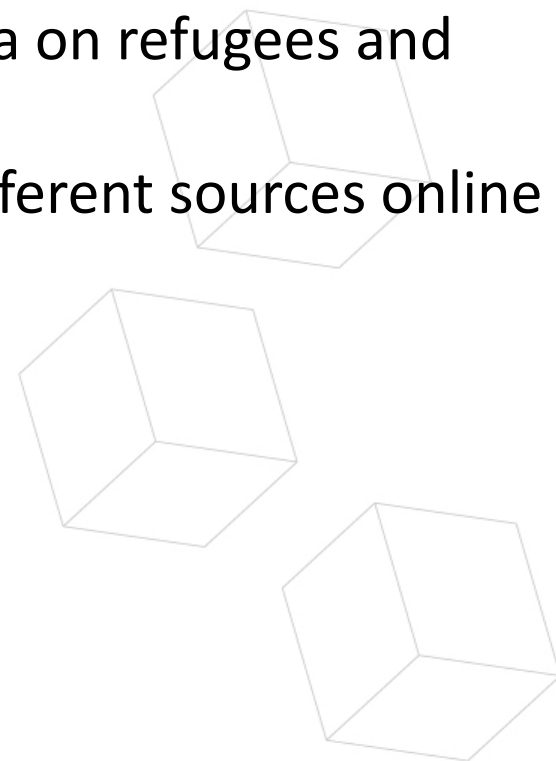


Hogeschool van Amsterdam

CWI

## Main idea

- Lack of a comprehensive database with data on refugees and migration
- Lots of time spend looking for data from different sources online
- Cross-national research is difficult



# | Why Migration?

## Dataset description



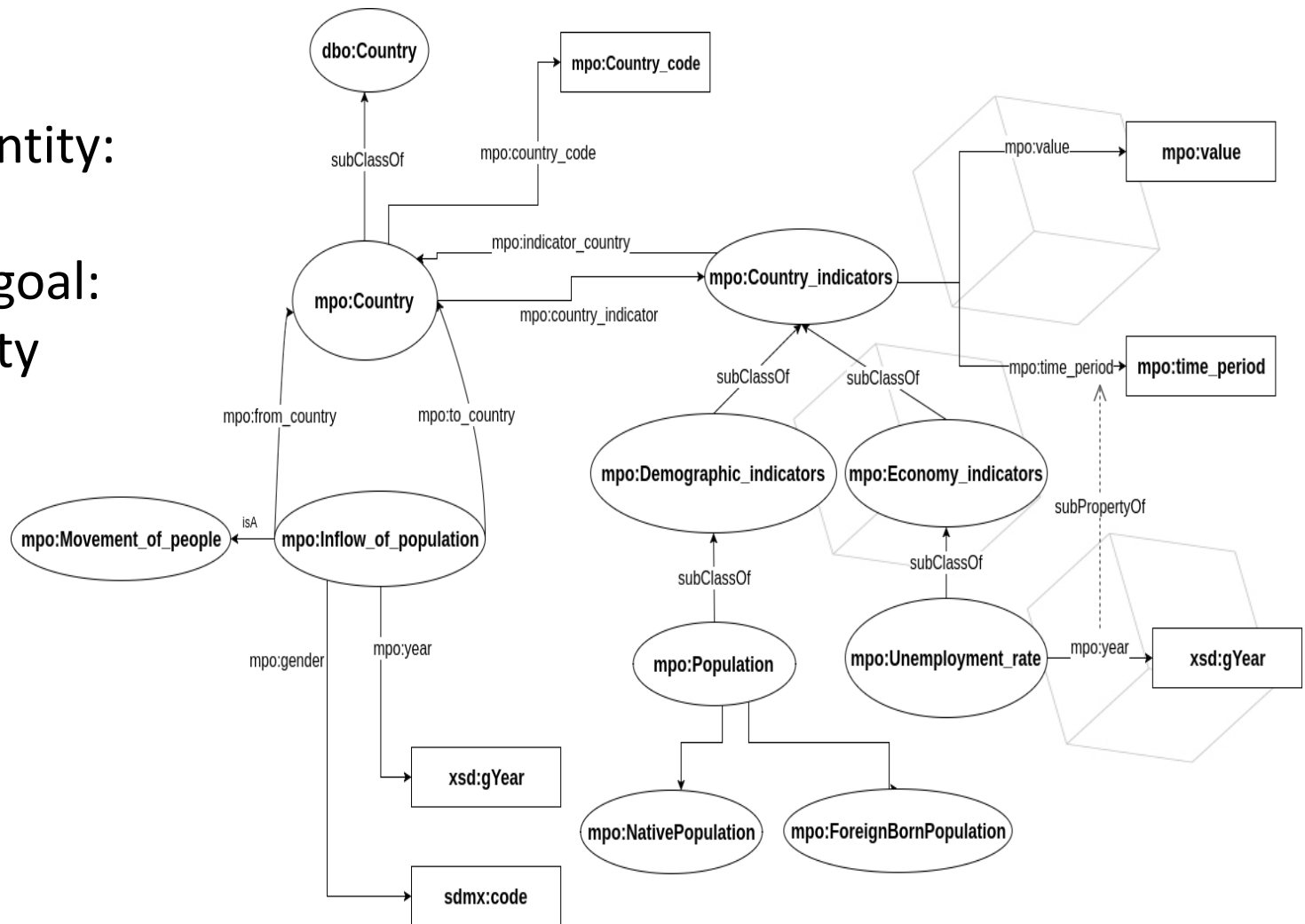
- Relevant and actual topic
- Difficult to have an objective view on the subject (shape the public debate)
- The municipality of Amsterdam is already working on migration data
- Lack of one single comprehensive and extensive database on the issue

### Our sources of indicators

- **OECD**
  1. Inflows of population on a global scale
- **Eurostat**
  1. Population of European countries
  2. Unemployment in the Eurozone

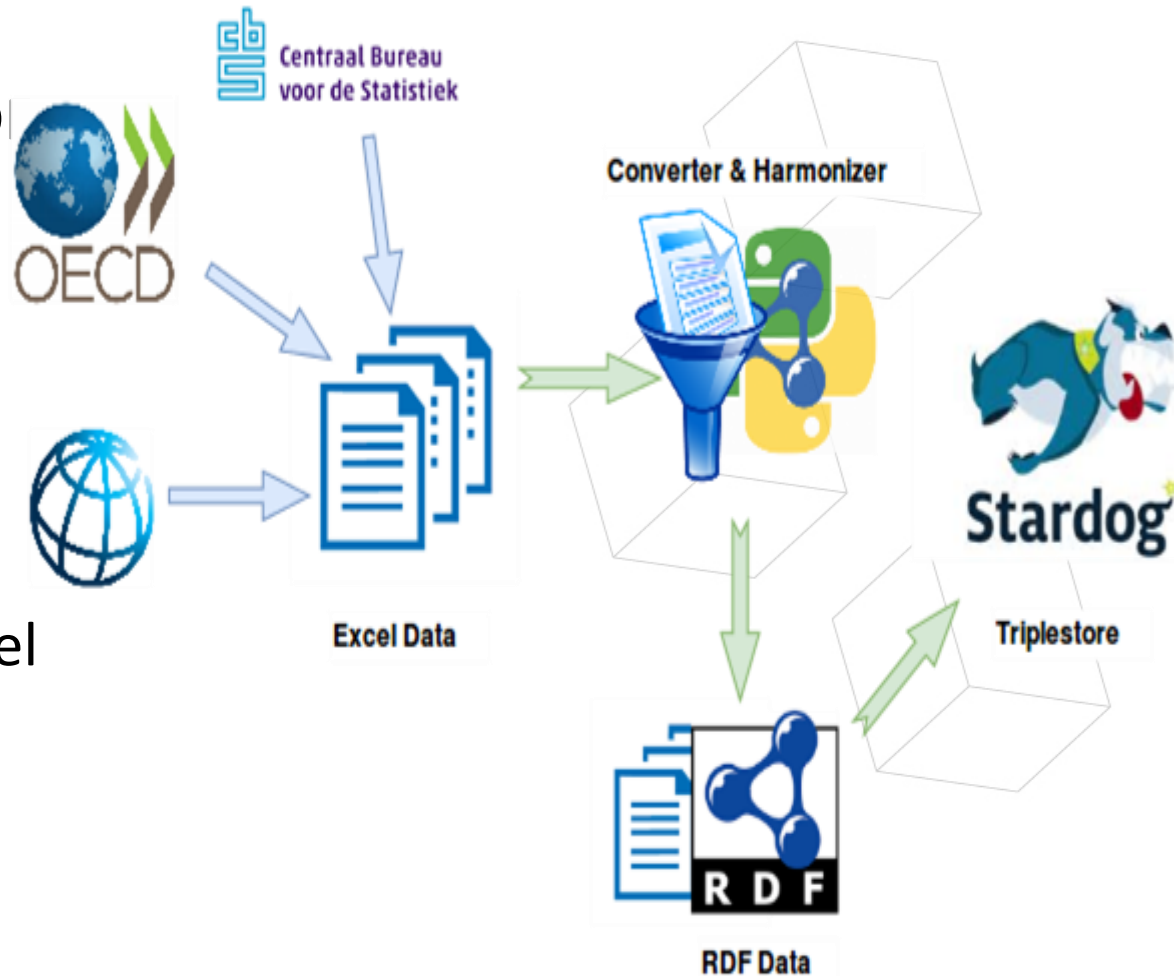
# Ontology Design

Unifying entity:  
Country  
Our main goal:  
Extensibility



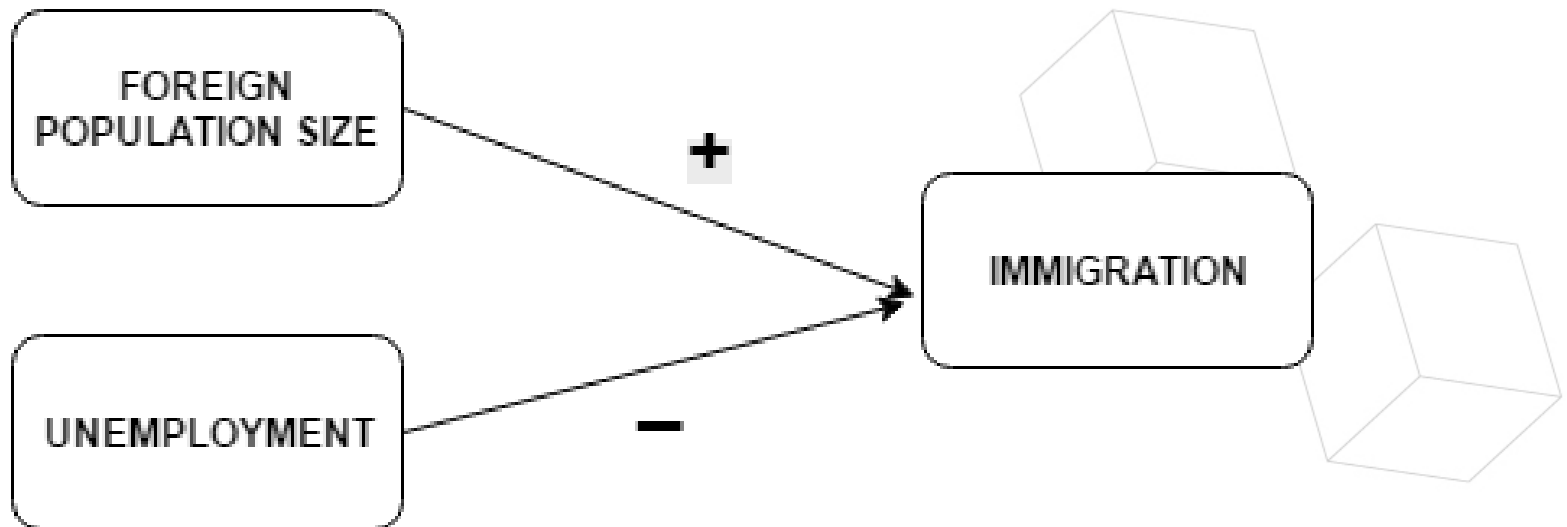
## Conversion and Storage

- Python's RDFLib
  - From csv/excel to RDF
  - Graph structure
- Stardog Triplestore
  - RDF graph data model
  - SPARQL
  - Endpoint



## | The Analysis

- Data queried from our triplestore was implemented in a regression analysis



## Conclusion

- Linked data can be beneficial to social science as they provide a flexible way to integrate information from different sources
- Data becomes accessible, easy to query, analyse and visualize
- Studies become more easily reproducible