18 and 19 September 2017 Cedefop, Thessaloniki







### Vacancies and CVs by industry and region

Monitoring demanded and preferred occupations

## Norway

#### Aims

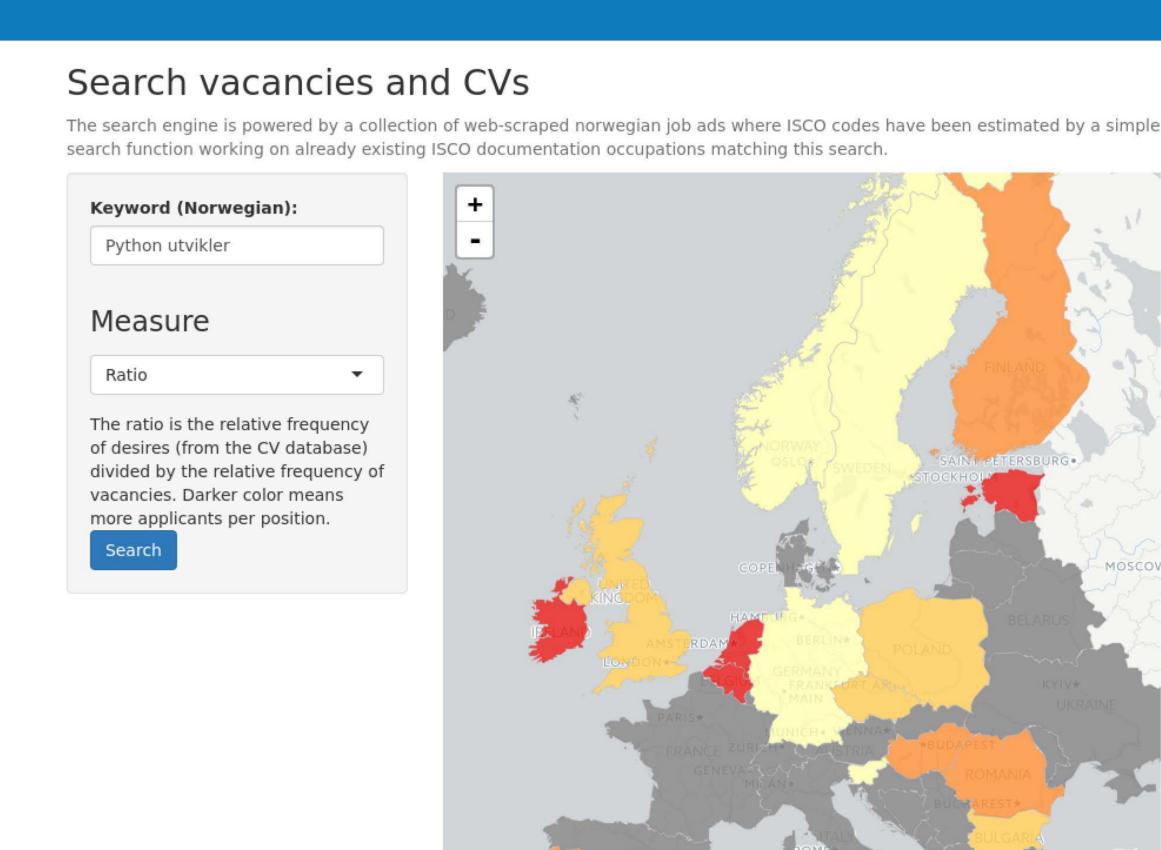
Live aggregation, classification and visualisation of vacancies (demand) and job preference (supply) in Norway by industry (NACE) and region

#### Data

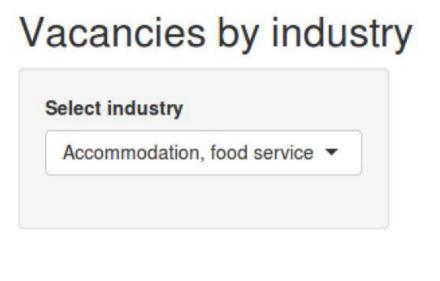
- Web scraped data from Norwegian PES (public employment service)
- Data from Norwegian business register (api)
- Occupational background and preferred occupations from Norwegian PES (public employment service)

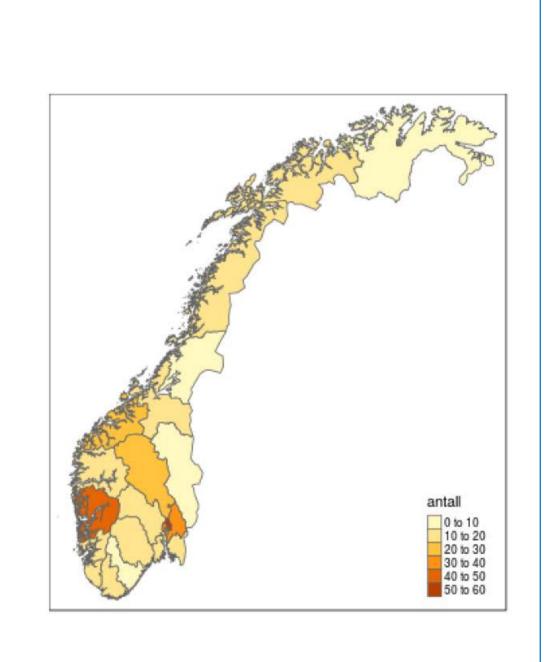
#### Results

European vacancies and CVs, with free-text search



Current vacancies in Norway, by industry





# Methods, technologies and tools

- Web scraping
- Record linkage
- R shiny
- Python
- Elasticsearch

#### Conclusions

#### Key achievements:

- shows possibility of continuous and automatic statistics;
- interactive visualisation;
- possible decision support tool for employers and jobseekers;
- monitor demand and supply mismatch.

#### Main challenges:

- web scraping, structuring data;
- record linkage;
- incorporate api data on non-employment;
- trying to get access to private employment services vacancy and CV data (possible, access not granted in time).