

Interactive reporting tool

Greece

Aims

Create a web application that interacts with Apache Spark to process big data and produce interactive visualisations on intra EU labour mobility.

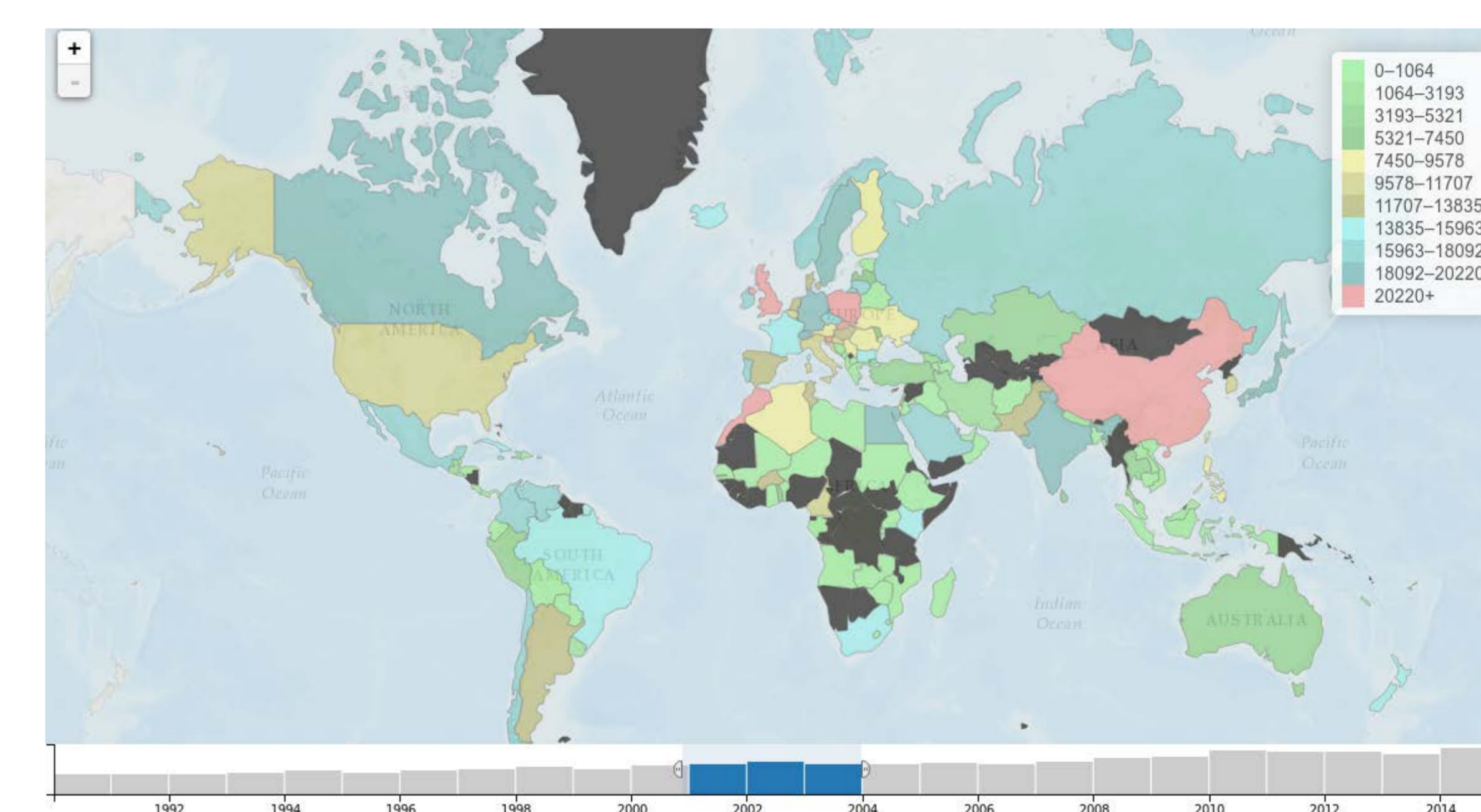
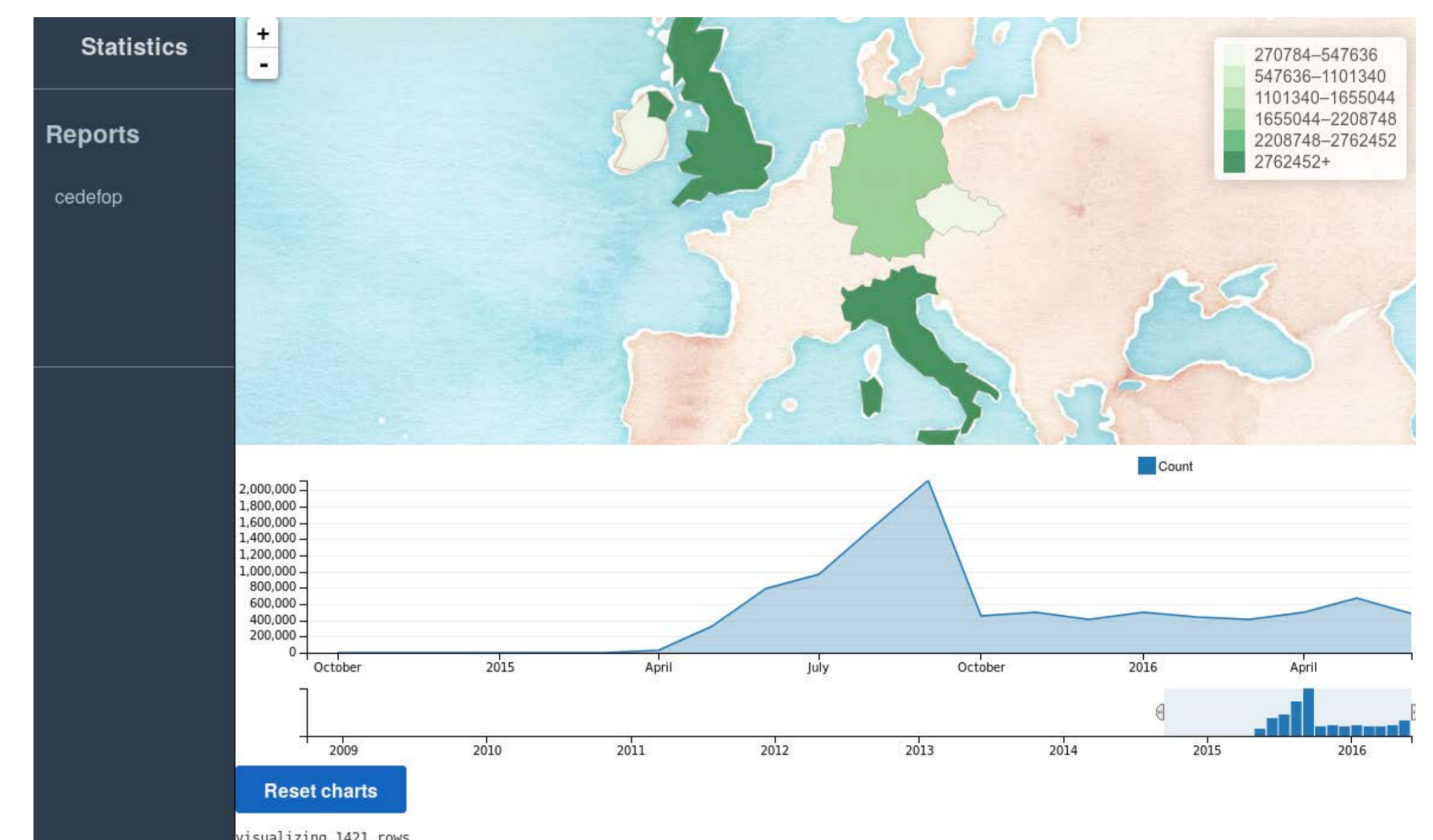
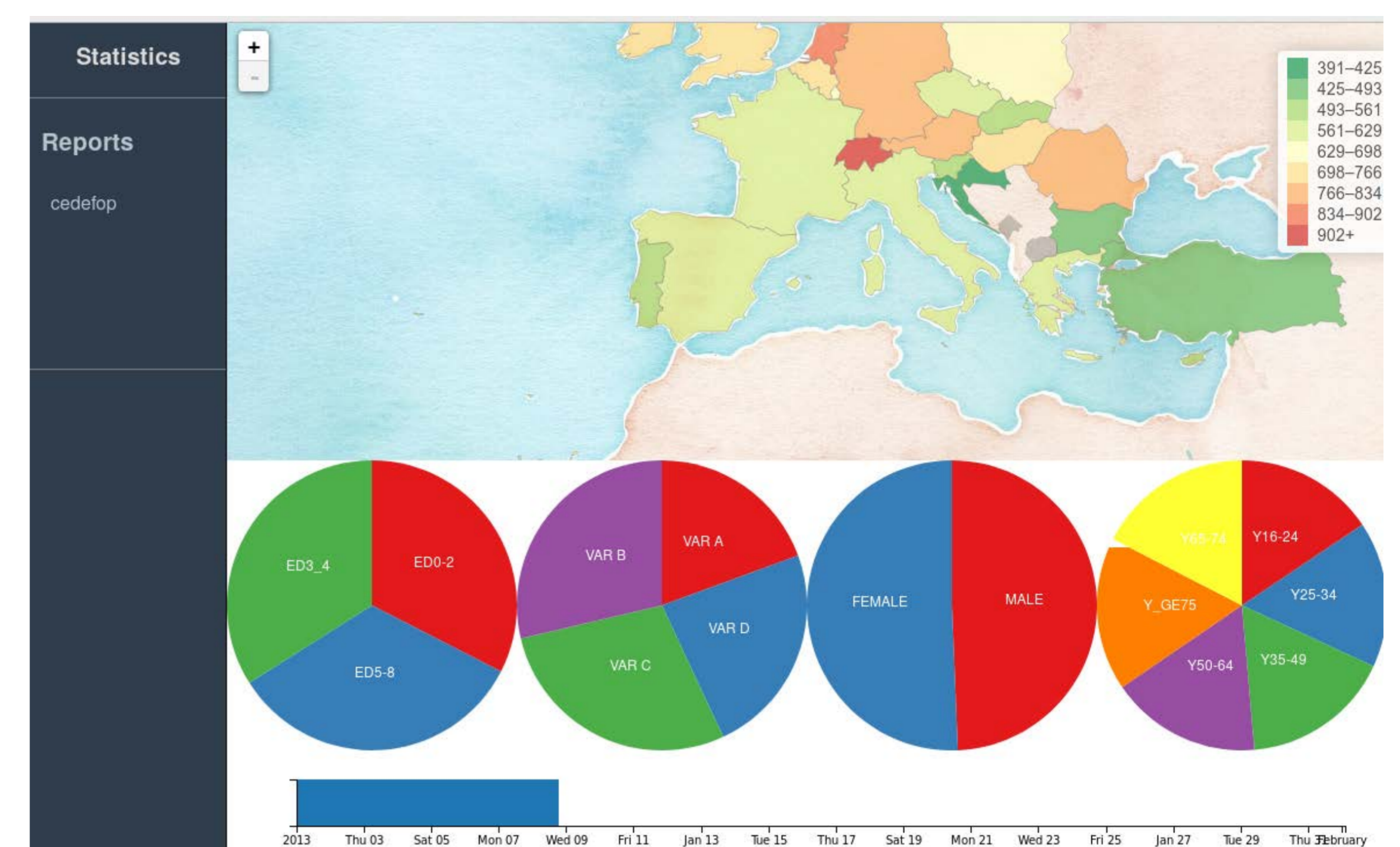
Data

- Cedefop data
- EURES data
- NUTS data

Methods, technologies and tools

- Process data using Apache Spark
- Create data-science notebooks on intra-EU labour mobility using Apache Zeppelin
- Create a web application with live reports to assist policy-makers
- Interactive visualisations using d3.js and dc.js
- Automate deployment on AWS or Azure using chef.io tool

Results



Conclusions

Key achievements:

- reports are updated live when data change;
- complex interactive visualisations;
- using open source well-established libraries and big data tools.

Main challenges:

- it is a complex solution comprising many components;
- using client side visualisation produces better results at the cost of harder development;
- interacting with Apache Spark is problematic – there is no single production tool that deals with that effectively.