OPPORTUNITIES AND CHALLENGES OF USING STATISTICAL POPULATION REGISTER AND STATE DATA GOVERNANCE INFORMATION SYSTEM FOR PRODUCTION OF INTERNATIONAL MIGRATION STATISTICS

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Lietuvos statistika

www.stat.gov.lt

Overview

- State Data Governance Information System
- Creation of Statistical Population Register
- More detailed international migration statistics: operational statistics, experimental statistics, official statistics
- Conclusions

Preconditions for State Data Governance

- New leadership and management
- Changes in national legislation
- Systematic approach to process management
- New strong technology base, modernisation of metadata repository
- Expanded structure and staff

Context of State Data Governance System

- Urgent need for daily data in face of pandemics, illegal migration, war refugees of Ukraine
- Operational statistics / Dashboards

Strands for Modernisation

- GSBPM and GSIM standards based centralized metadata and data repositories covering the whole statistical production process
- Enhanced management of statistical production process
- Automation of processes

History of creation of Statistical Population Register

- 2011 Traditional Population and Housing Census
- 2013 First thoughts about creation of Individual person database based on Census data for Demographics statistics
- 2019 Start of modernisation and standartisation of statistical process
- 2020 State Data Governance System was established
- 2021 Population and Housing Census based on administrative data
- Middle of the year 2021 – Start of creation of Statistical Population Register at methodological and technical level

The need for Statistical Population Register

- 2021 Population Census is foundation for Statistical Population register
- Future annual Population Census
- The need to have demographic statistics, international migration statistics of better quality, more relevant, more frequent and detailed, aligned with the census and satisfied national and European needs
- Have a relevant permanent population frame for sampling
- Use for experimental statistics (circular migrants, etc.)
- Harmonised statistics through different domains

Purpose and Tasks of Statistical Population Register

- The purpose is to collect, accumulate and update data on permanent residents, their distribution in territories, demographic and economic characteristics of permanent residents.
- The goal is to ensure that data in the Statistical register is automatically collected and integrated from administrative sources and statistical surveys.
- Tasks: evaluate incoming data flows, periodicity of provision, methods of transmission, define objects of the statistical register, collected data, prepare algorithms for data collection and recording in the statistical register, create a database structure.

Conceptual model

- Realize and define existing and additional variables;
- Test methodological assumptions;
- Identify and define quality indicators for administrative data;
- Define requirements and recommendations for data sources.

Objects of SPR

- Permanent resident :
  - Lived in Lithuania continuously for at least 12 months at the reporting date;
  - or within the last 12 months arrived in the country before the reporting date with the intention of staying in for at least one year;
  - and established "signs of life" indicator (found in two or more administrative sources).

Data Sources for Statistical Population Register

- 2021 Population Census
- Population Register
- Main other State registers
- Administrative data

Population groups

- Employed
- Unemployed
- Students, pupils
- Retired persons
- Homeless
- Residents of institutional homes
- Foreigners

Collected persons data in Statistical Population Register

- Encrypted personal code, date of birth, date of death, age, sex, nationality, citizenship, country of birth, year of first marriage, year of first child birth, number of children born, legal marital status, permanent (declared) place of residence.
- Attained education, disability status, economic characteristics.

Standardized classifications, code lists

- Classification of countries
- Nationality
- Citizenship
- Sex
- Legal marital status
- And so on.

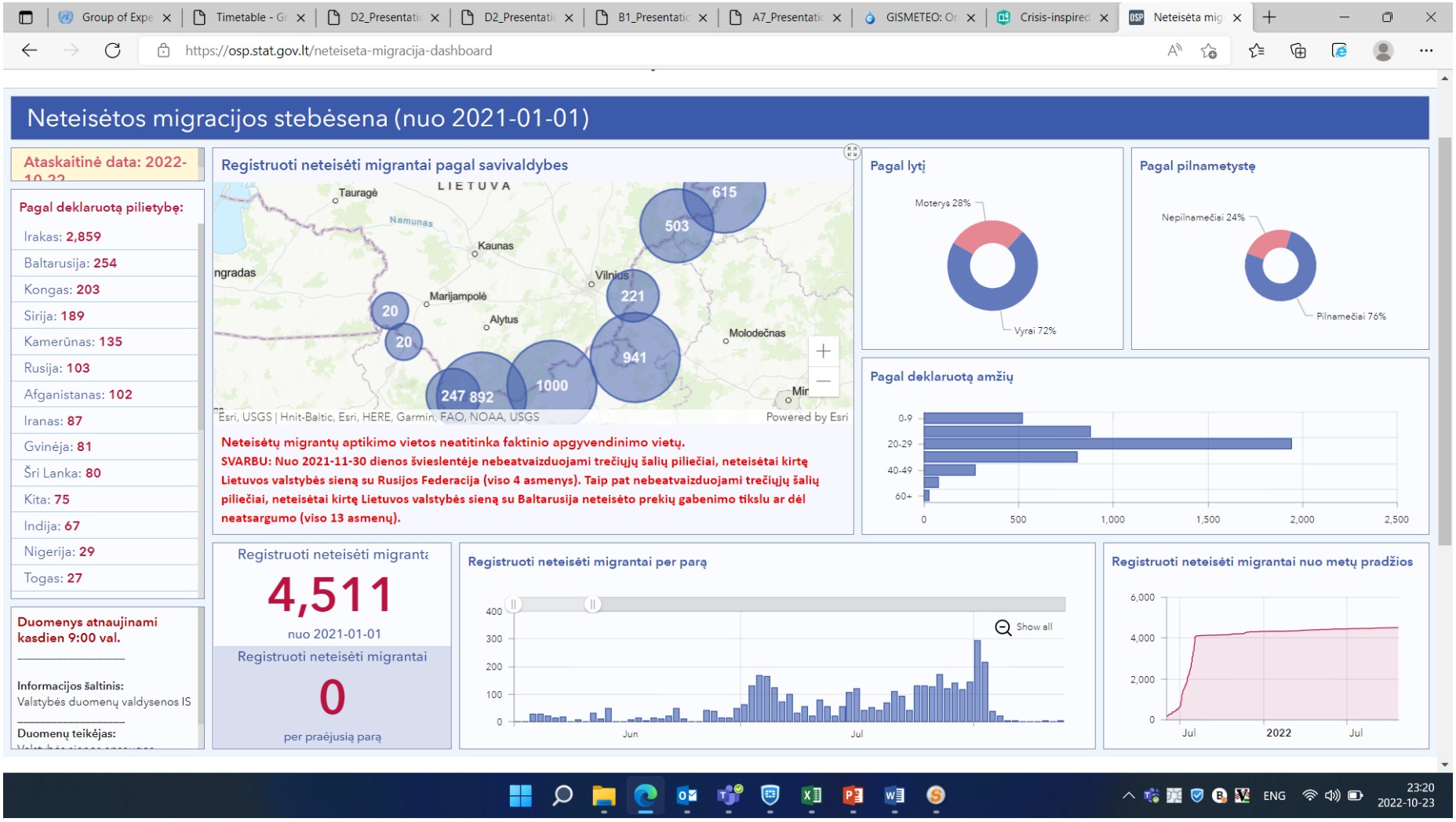
Challenges and solutions

- Preparation of demographic and migration statistics
- Methodological challenges. Testing. Analysis.
- Quality assurance of results. Estimation of quality indicators of administrative data.
- Comparison with other statistical households surveys.
- Cooperation with administrative data owners in matters of data quality improvement.

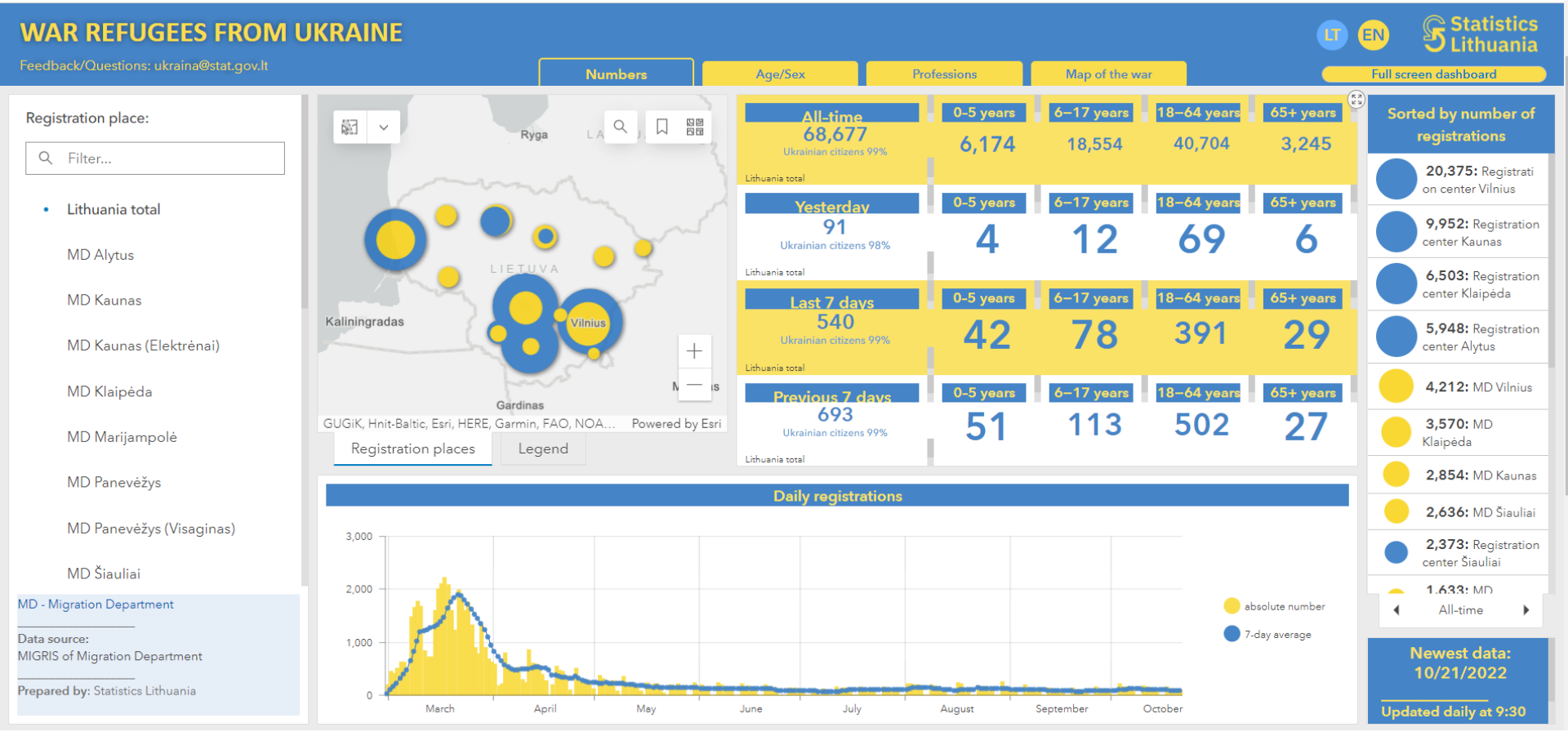
More detailed statistics about migrants

- Operational statistics
  - Daily based illegal immigrants and
  - War refugees of Ukraine date dashboards
- Experimental statistics
  - Circular migrants
- Official statistics
  - International migrants, Population statistics based on the same daily updated Statistical Population Register source
  - Migrants by educational level (under preparation)
  - Migrants by disability status (under preparation)
  - Migrants by employment status (under preparation)

Operational statistics - Illegal immigrants

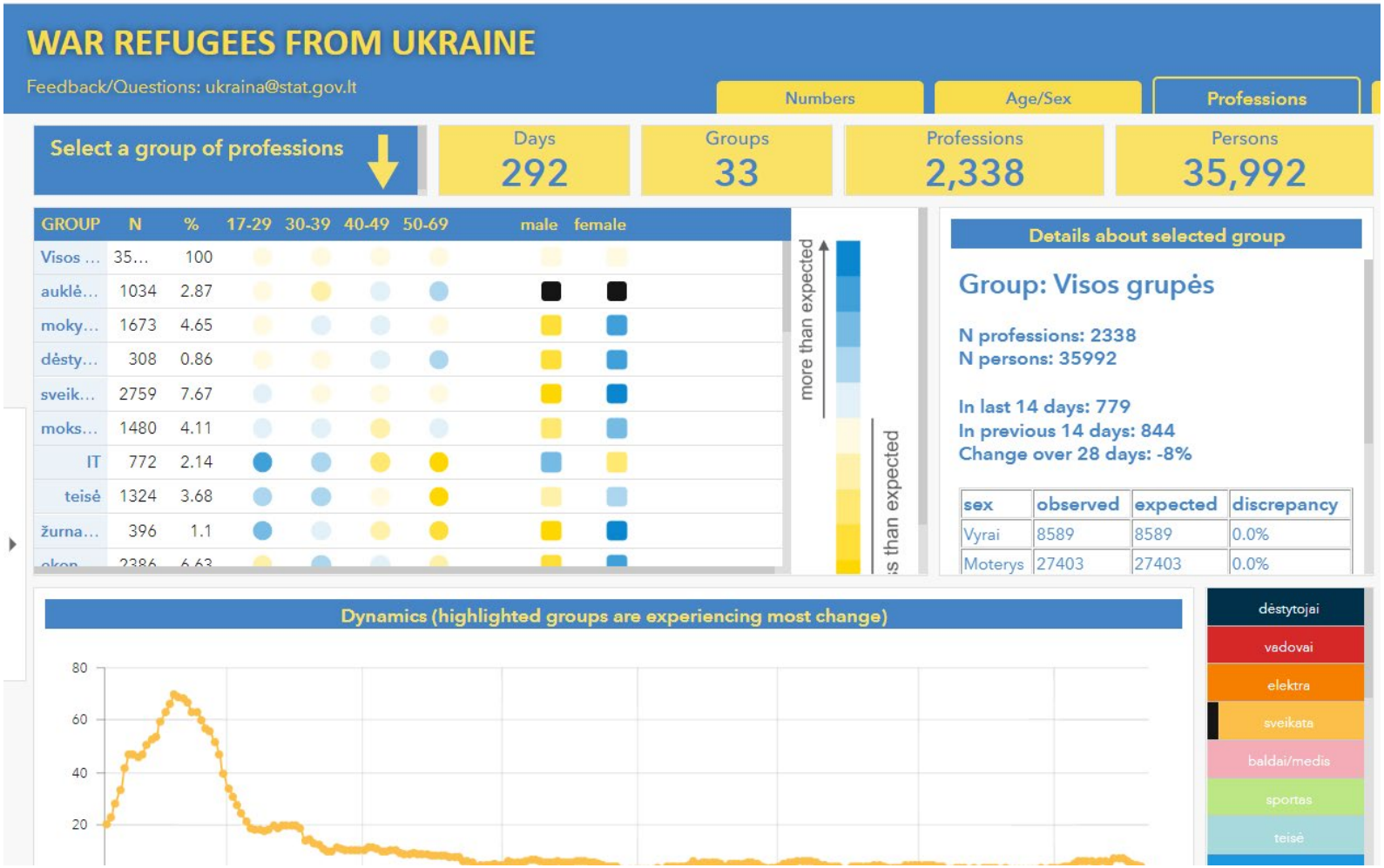


Operational statistics - War refugees from Ukraine [1]



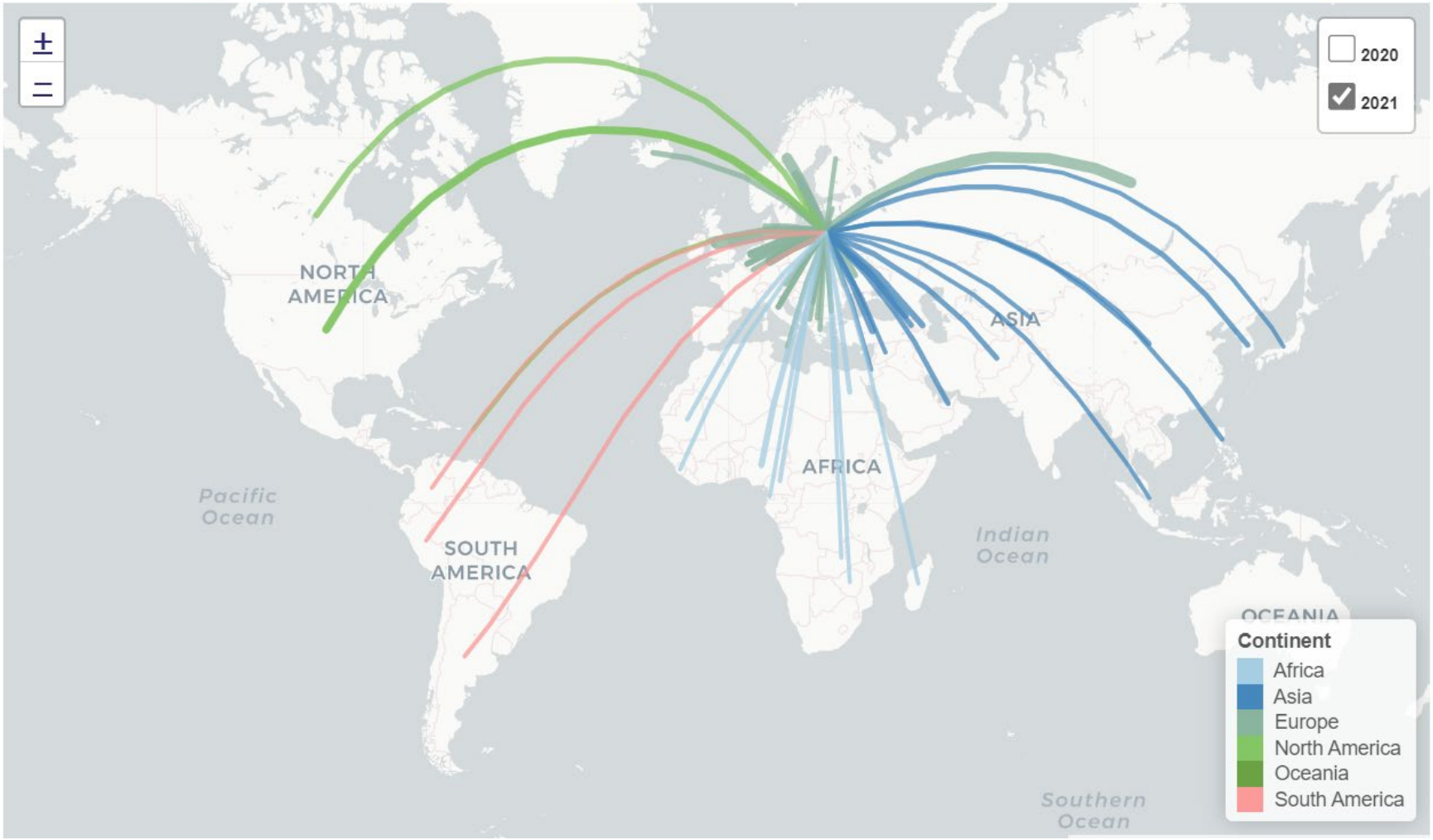
- Dashboard: War refugees from Ukraine - Oficialiosios statistikos portalas

Operational statistics - War refugees from Ukraine [2]



Experimental statistics - Circular emigrants

Circular emigrants who migrated only between Lithuania and one other country



Experimental statistics - circular immigrants

Circular immigrants who migrated only between Lithuania and one other country

Conclusions

- With using State Data Government Information System and Statistical Population Register we could satisfy national and European user needs to produce operational, monthly, annual, more details International migration statistics.
- Statistical Population Register gives us opportunity to know each persons movements, history of vital events; produce more precise migration flows and other related statistics.

Thank you for your attention!

Time for Questions!