

Internal migration in Austria along the rural-urban continuum and across the life course, 1996-2013

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ICPG, Brisbane, July 2015

Trends in internal migration

Overall decline in the volume of movement (IMAGE)

Re-urbanisation tendencies in Western Europe (e.g. Germany)

Impediments to the study of (re-)urbanisation

Definition of "urban"

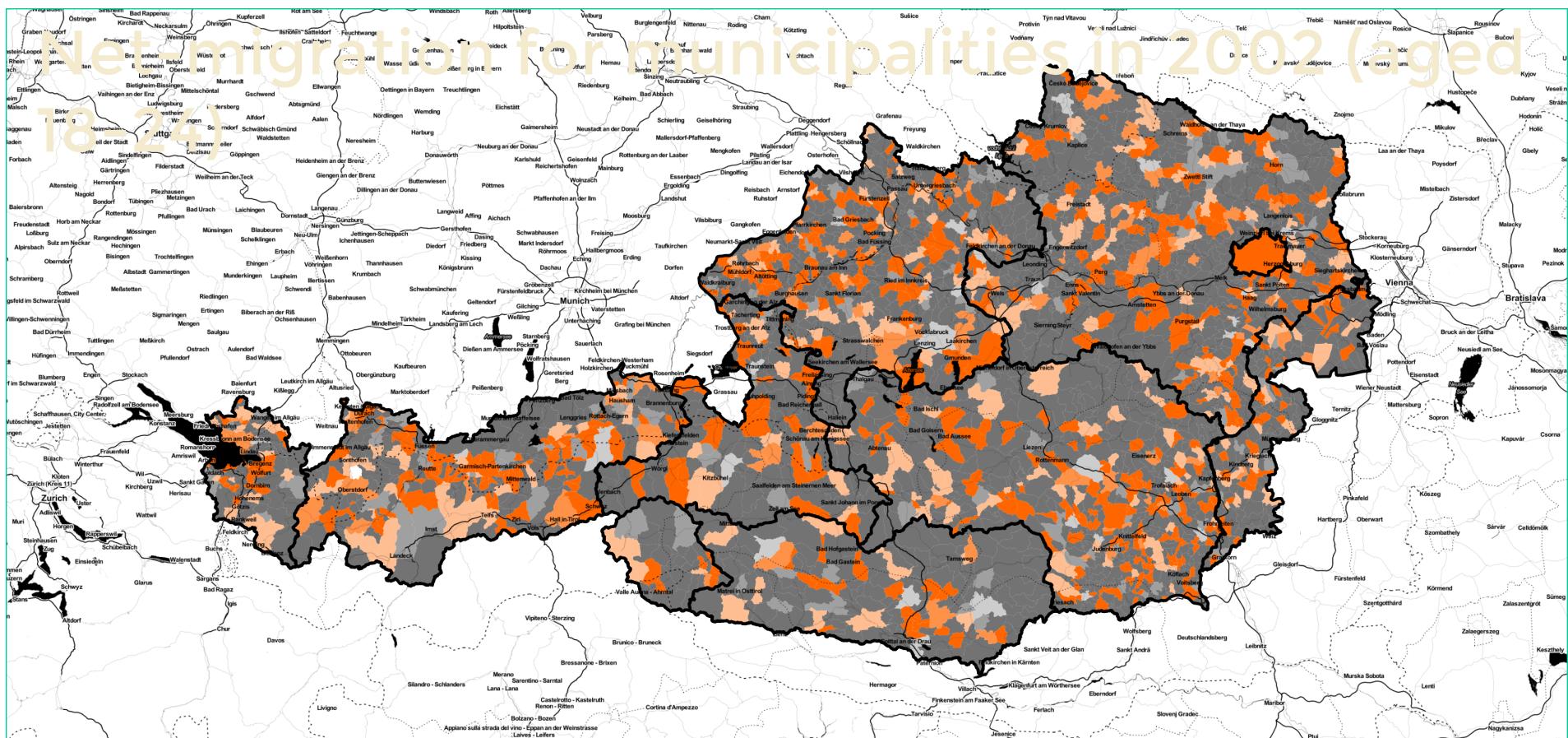
Administrative geographies not coinciding with city boundaries

Size and complexity of origin-destination flow matrices

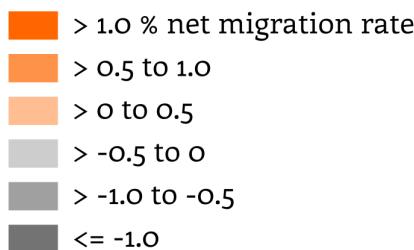
Internal migration in Austria

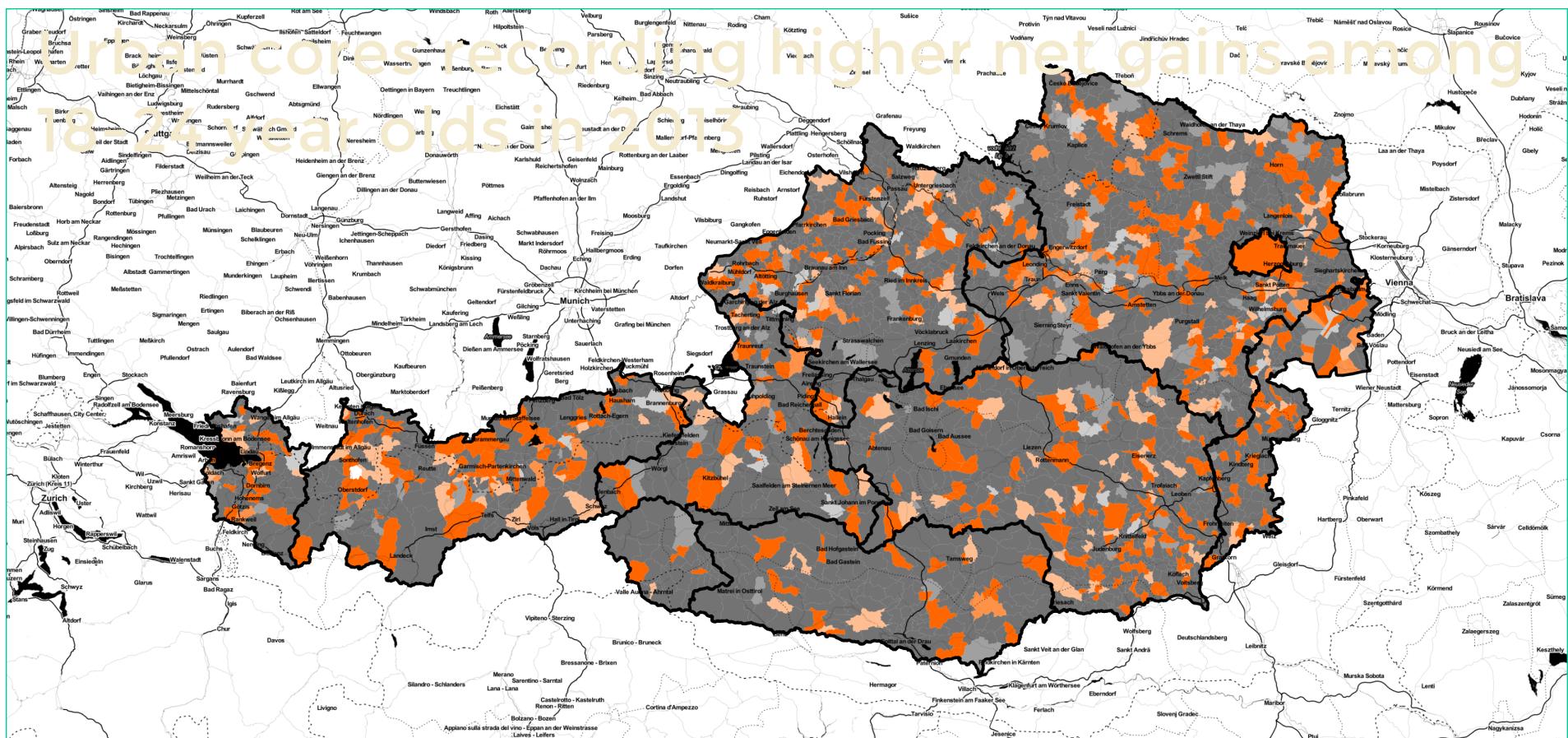
Earlier work mostly limited to mapping net-migration.

Little analysis of flows beyond political districts (N 99)



Migration by Municipalities (Age 18-24), Austria 2002





Migration by Municipalities (Age 18-24), Austria 2013

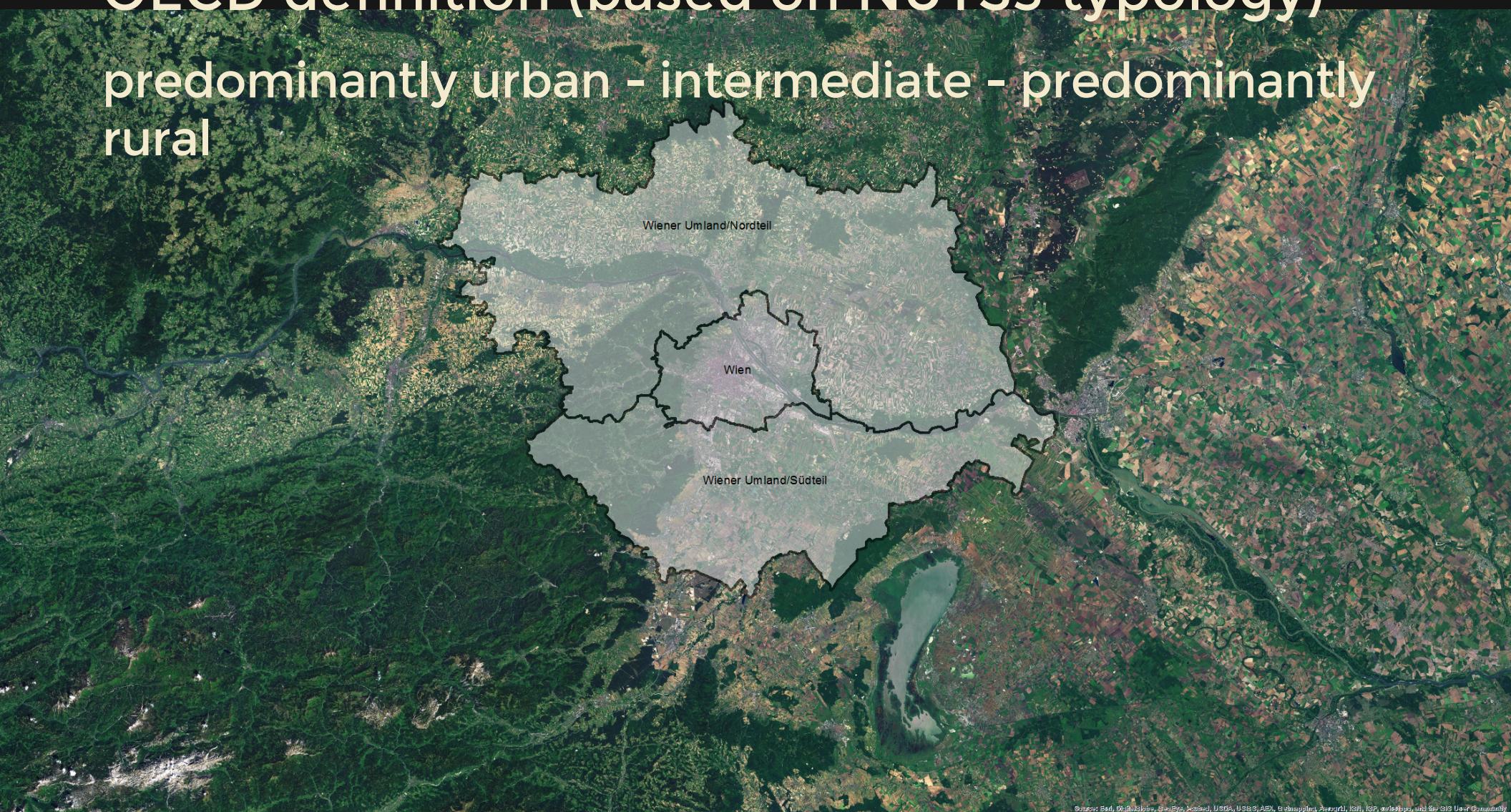
- > 1.0 % net migration rate
- > 0.5 to 1.0
- > 0 to 0.5
- > -0.5 to 0
- > -1.0 to -0.5
- <= -1.0

Our aim

To develop a more comprehensive picture of the patterns and trends in internal migration in Austria by applying different definitions of "urban".

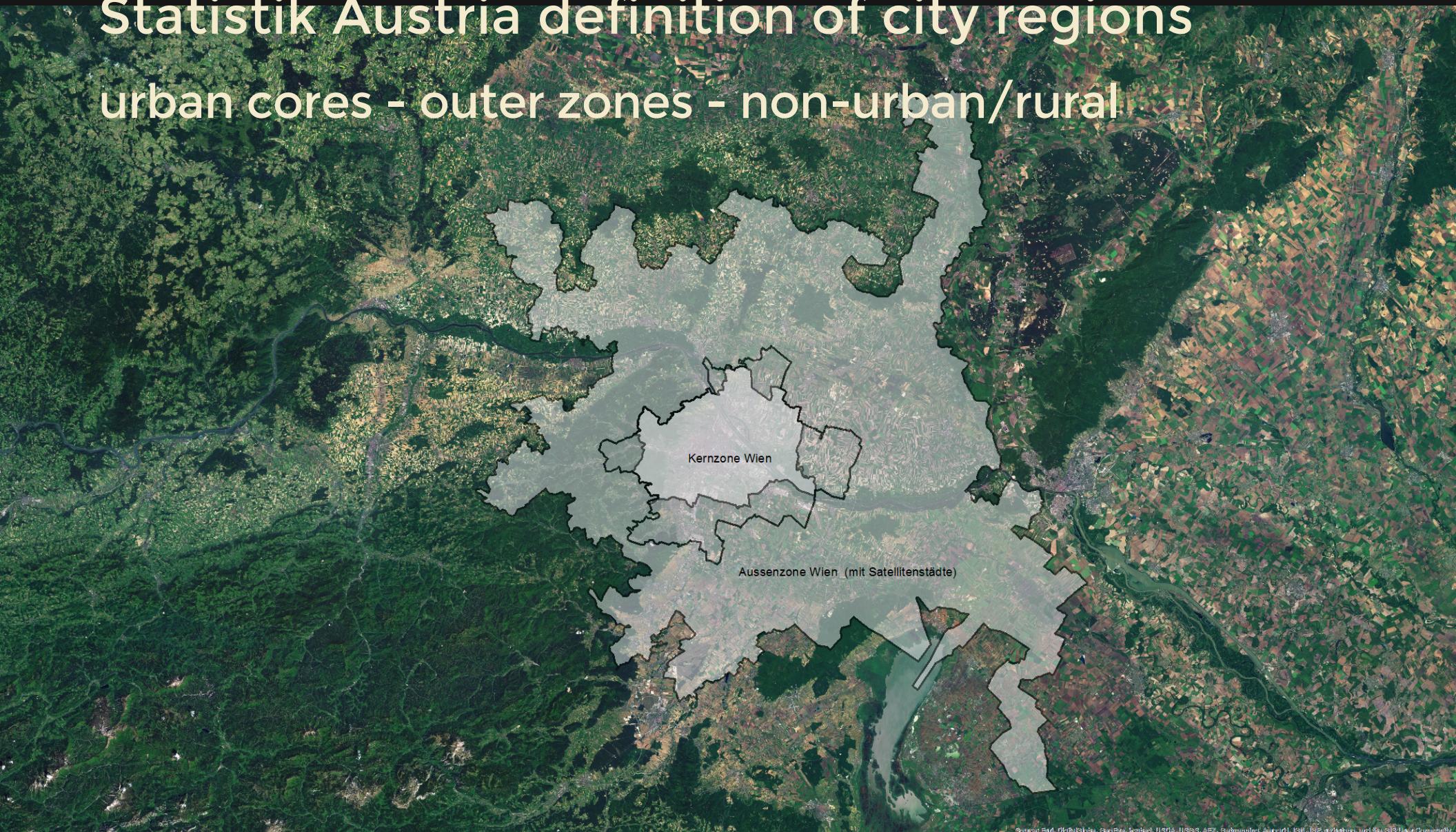
OECD definition (based on NUTS3 typology)

predominantly urban - intermediate - predominantly rural

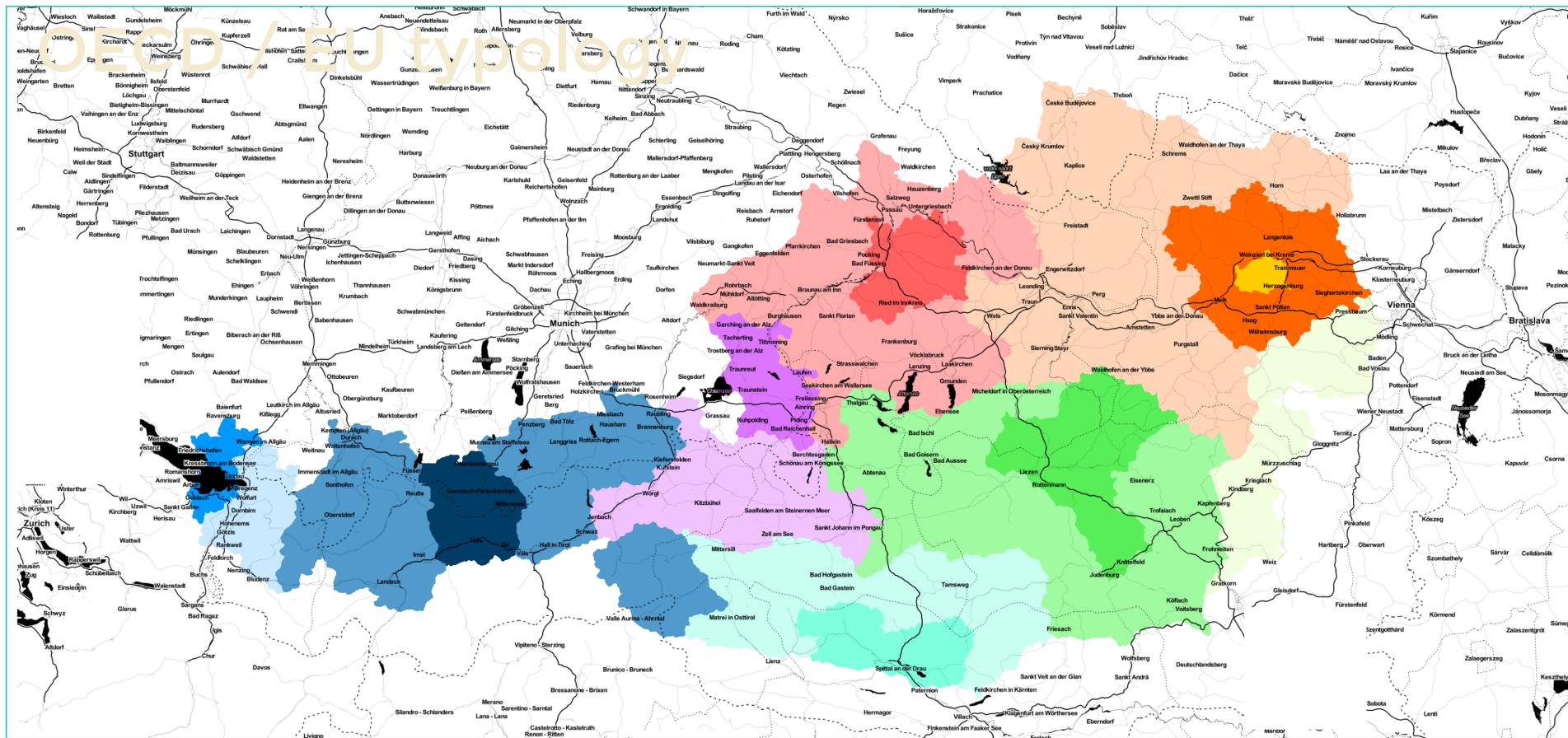


Sources: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Statistik Austria definition of city regions urban cores - outer zones - non-urban/rural



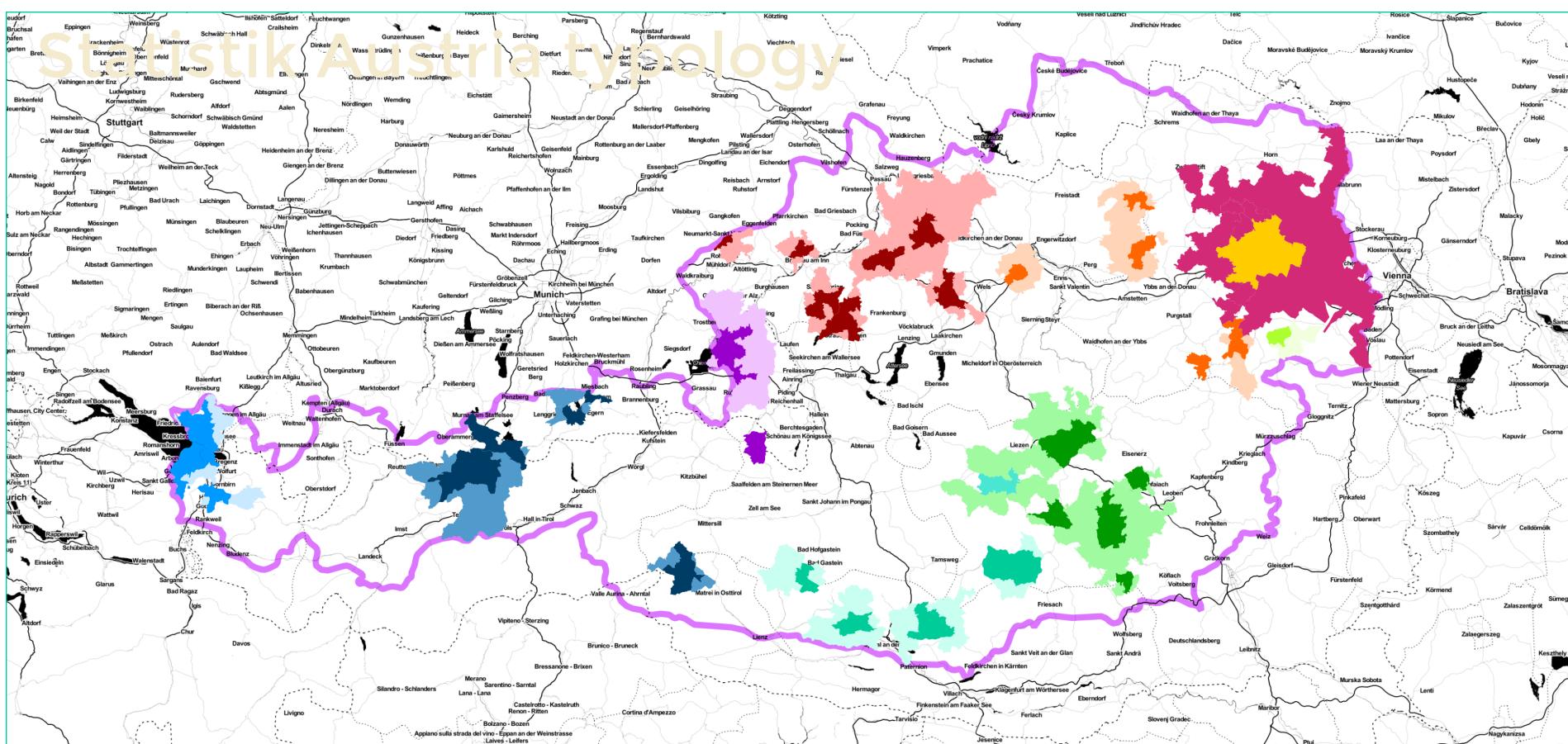
© OpenStreetMap, OpenDataSoft, Geofabrik, AusGeb, UGSG, USGS, USGS_AER, DeSmapping, AerialGrid, IGN, IGN_France, and the GIS User Community



Urbanity by NUTS3 regions, Austria 2014



predominantly urban
 intermediate
 predominantly rural



City Regions by Type, Austria 2014



core urban area

greater urban area

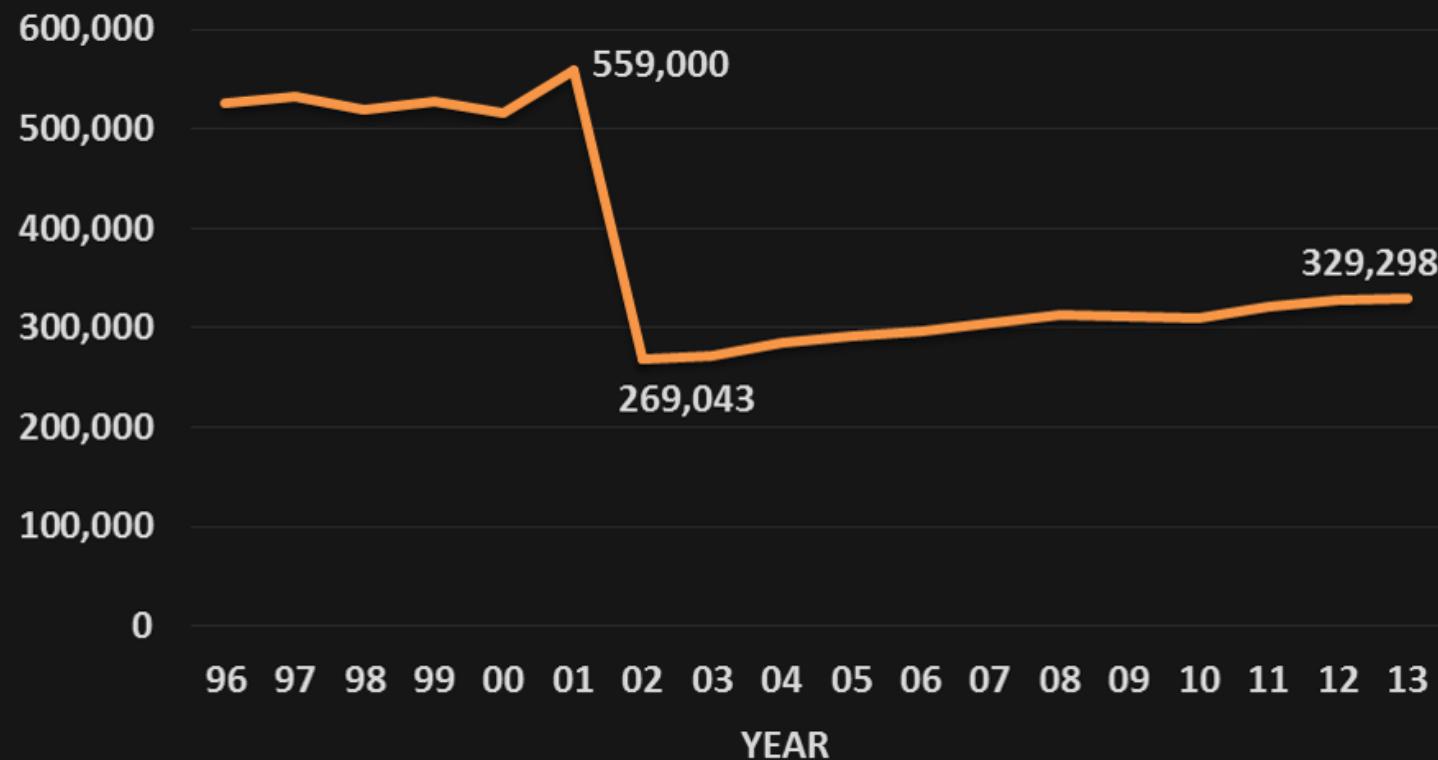
Data

Spatial resolution: municipalities (N 2,376)

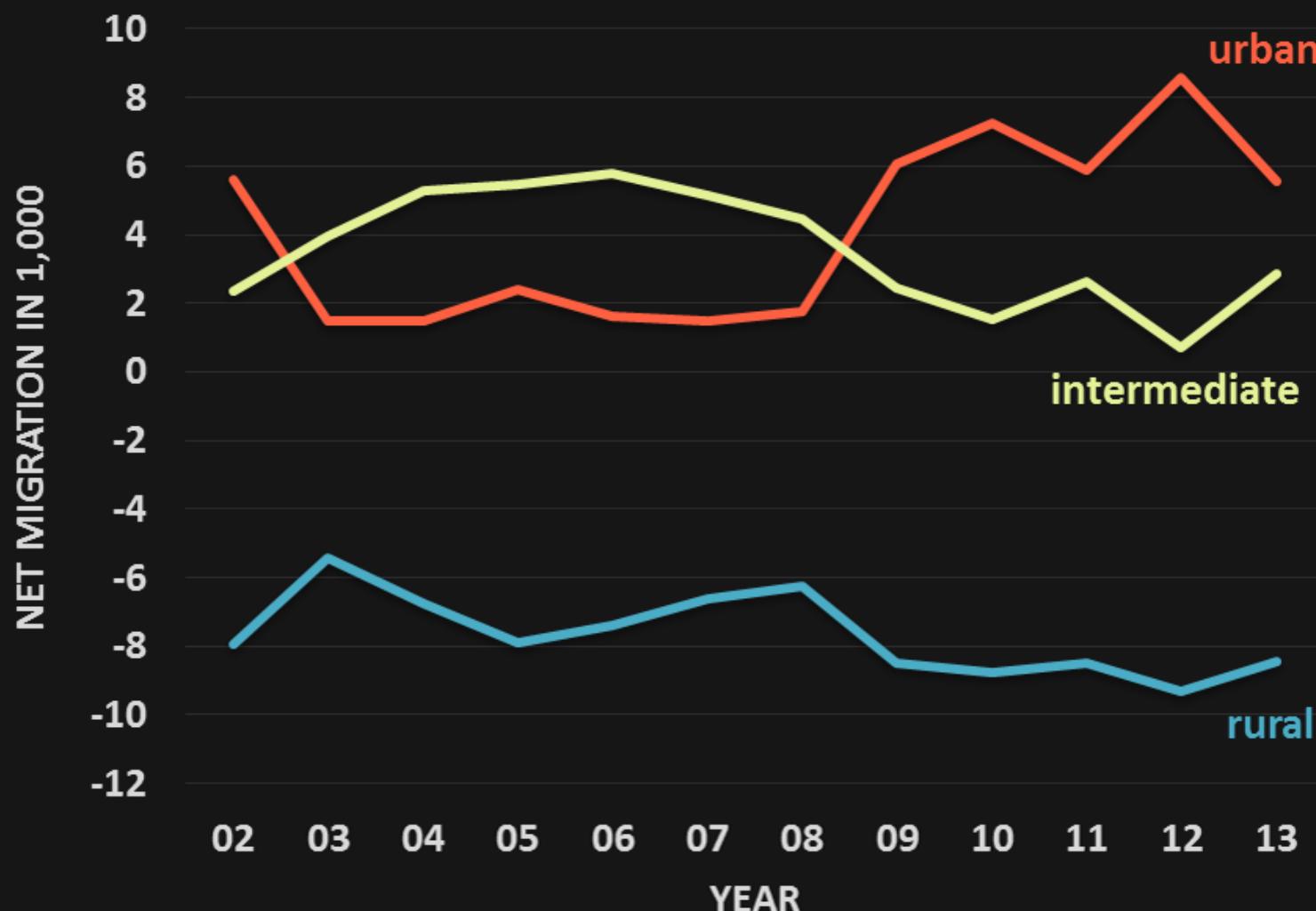
Temporal resolution: annual migration events 1996-2013

Population at risk by age & 7 age groups (>18, 18-24, 25-29, 30-34, 35-49, 50-64, 65+)

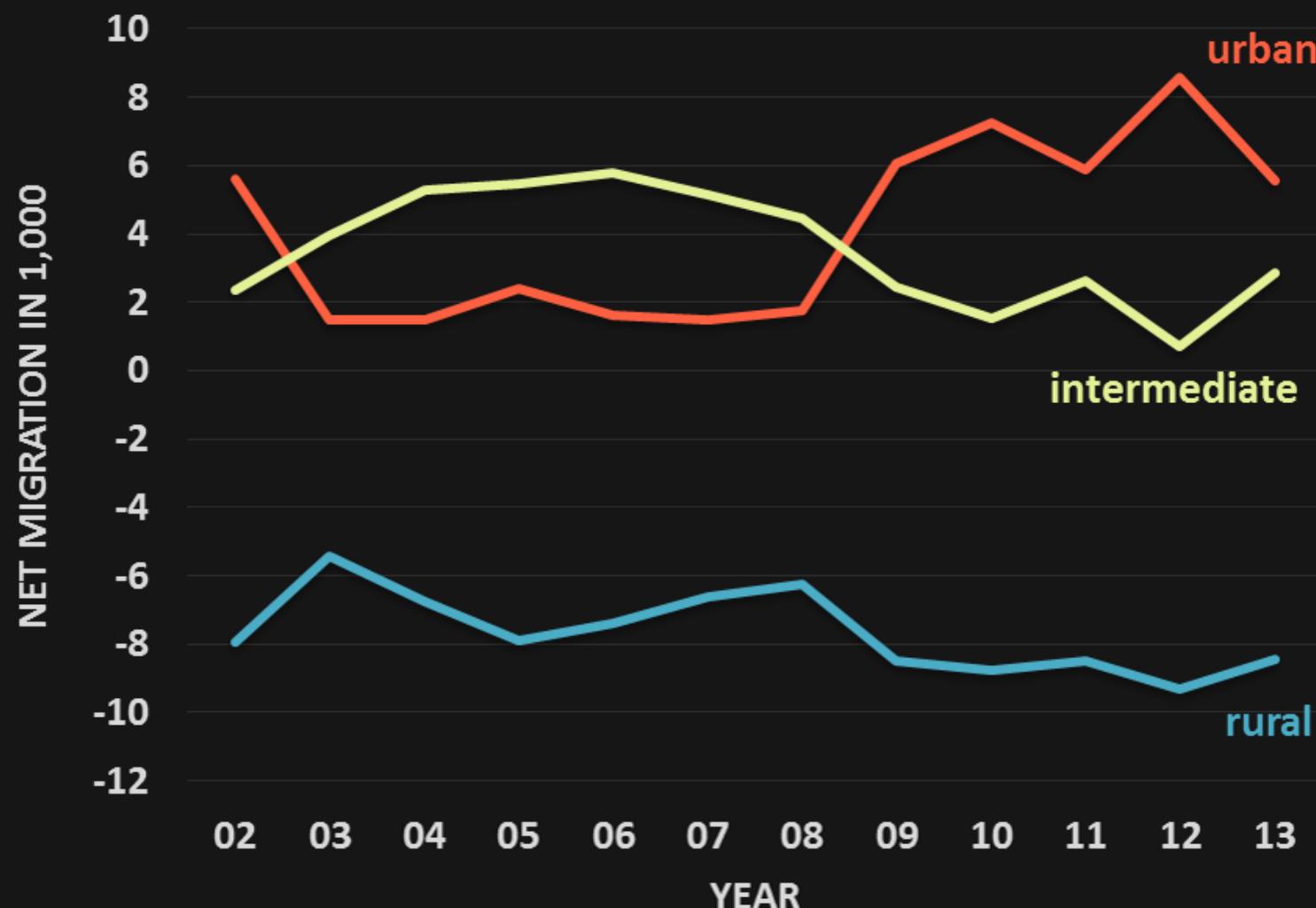
Austria changed to a register-based system in 2002



Net-migration for all ages suggesting re-urbanisation



Growing attractiveness of urban cores for 18-24 year olds



Reducing complexity through custom geographies

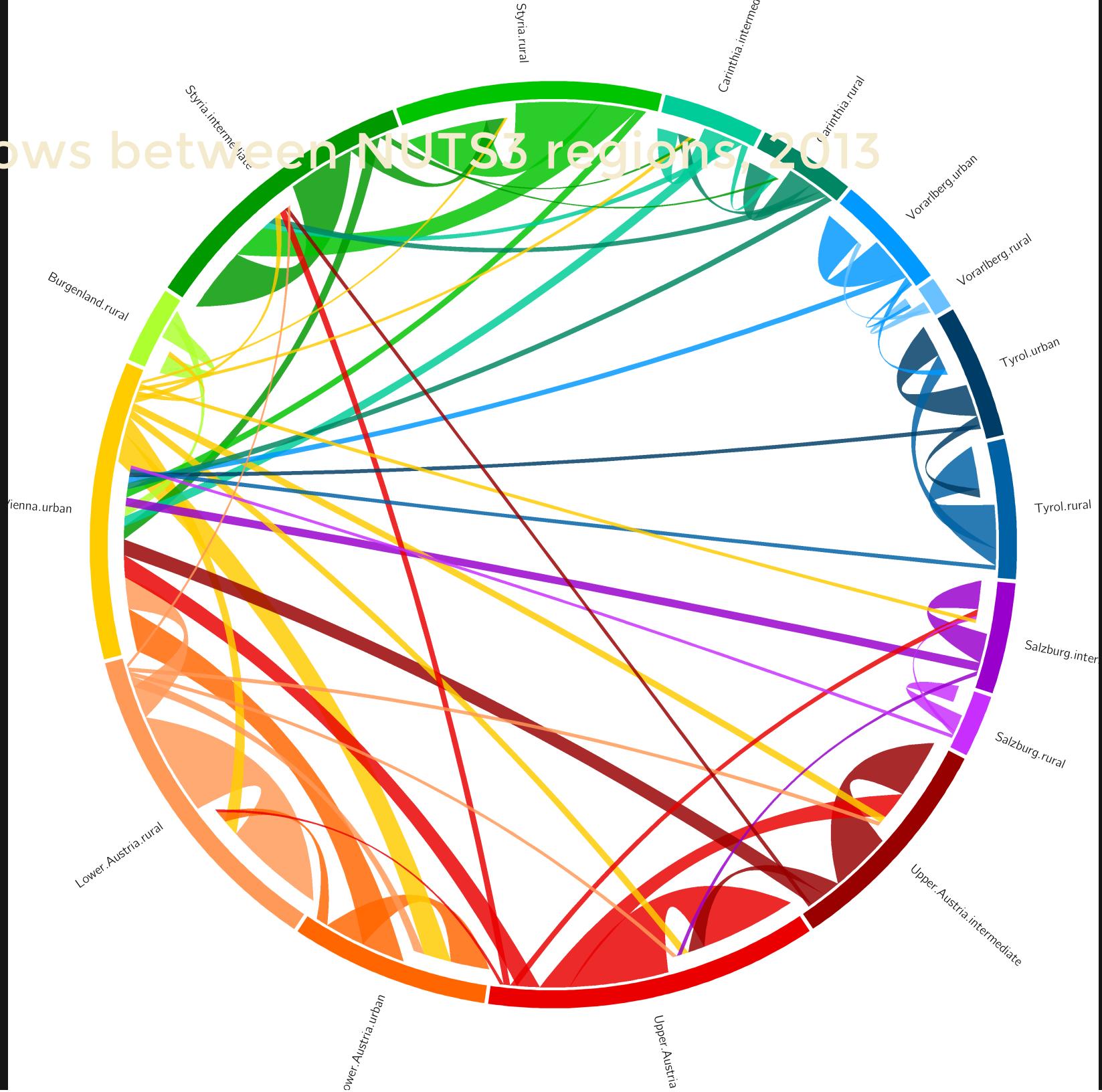
Exploring the impact of geography on the patterns of internal migration along the urban-rural gradient

add two custom geography maps in small next to each other as visual reminder

Flows between NUTS3 regions, 2002

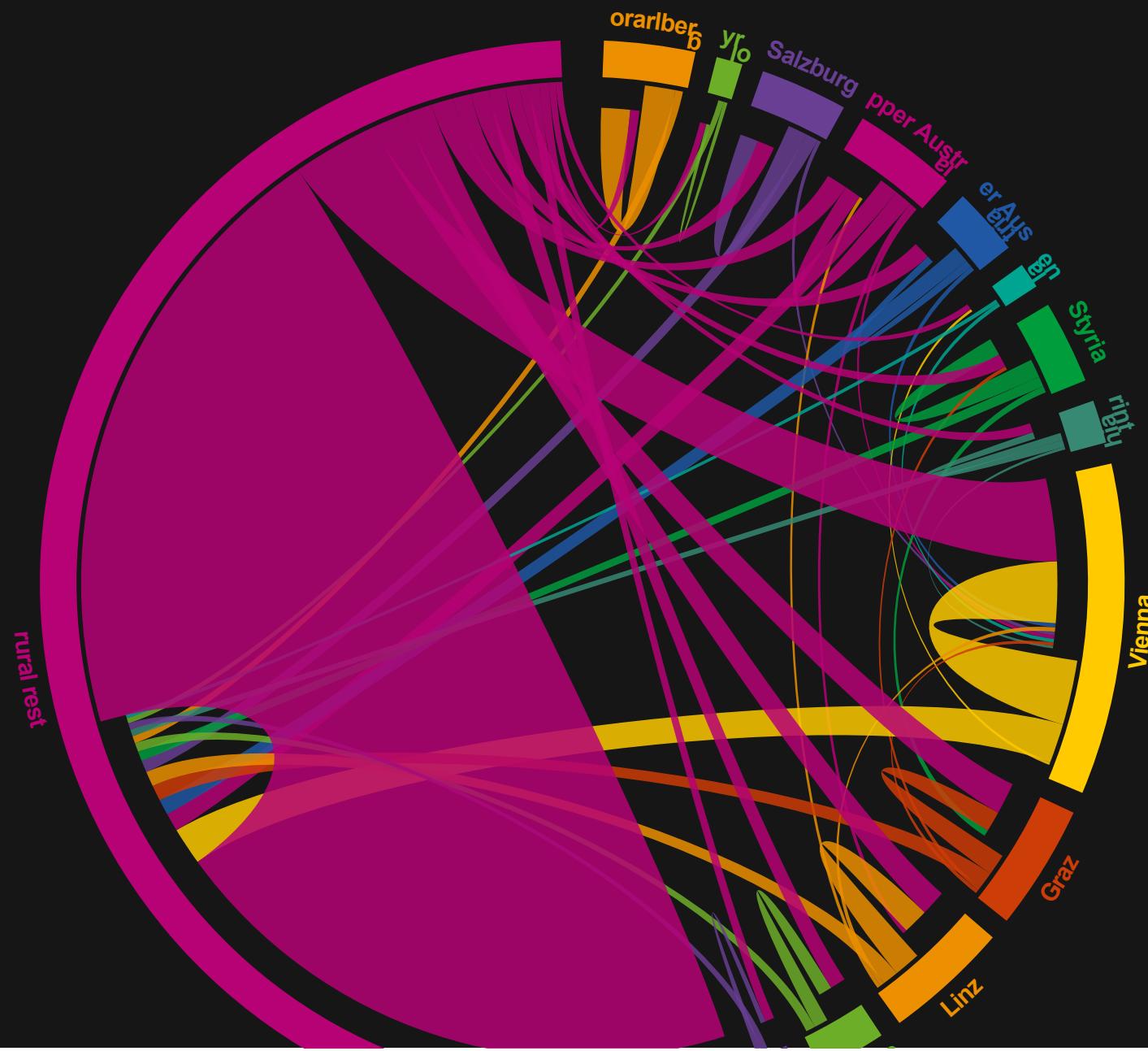


Flows between NUTS3 regions, 2013



2002-2007

2013-2018



Conclusions

Overall increase in
volume of movements

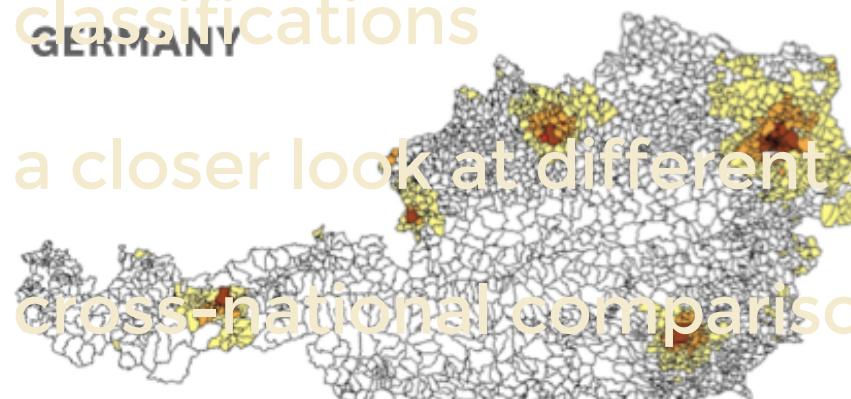
Growing attractiveness
of core cities for 18-24
age group

Intra-city movements,
esp to largest cities

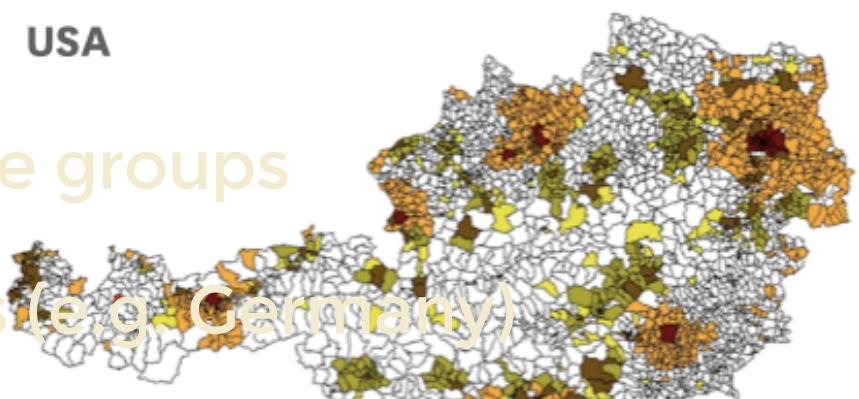
Next steps

alternative geographies (e.g. different national classifications)

GERMANY



USA

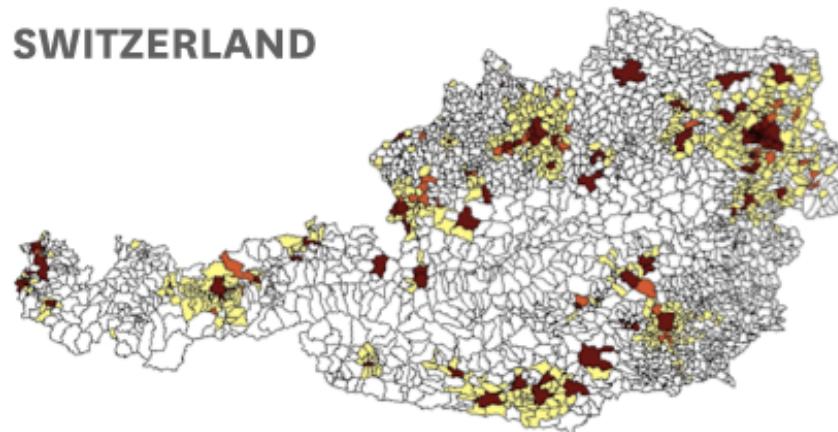


a closer look at different age groups

cross-national comparisons (e.g. Germany)

interactive visualisations for public and policy

SWITZERLAND



CANADA

