VIRUS Atlas Austria

COVID-19, labour market and demography at a glance

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Mapping the Corona Crisis

Entire globe and the scientific community faced significant new problems

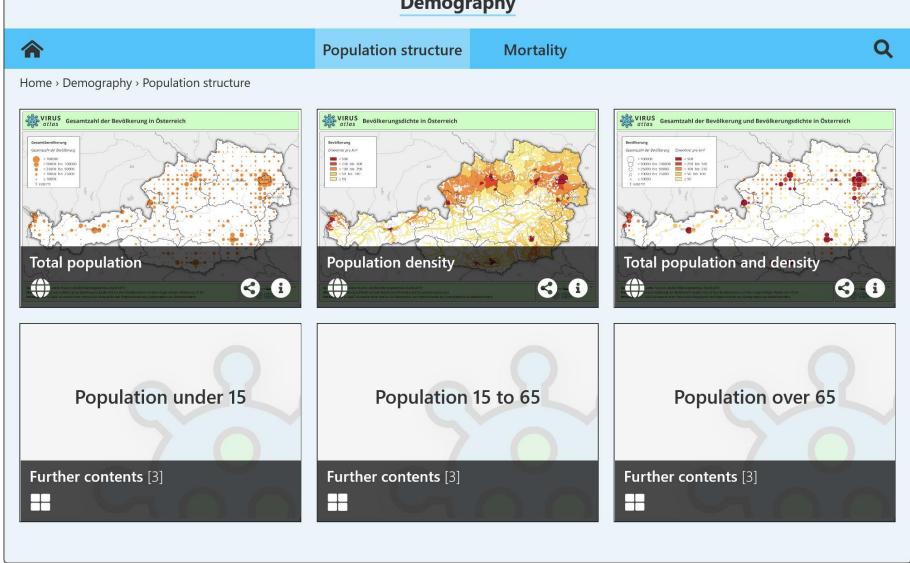
- Inform the population
- Utilized as a tool for decision-makers
- Daily adaption of the map material

However, maps with massive cartographic deficits are used and published



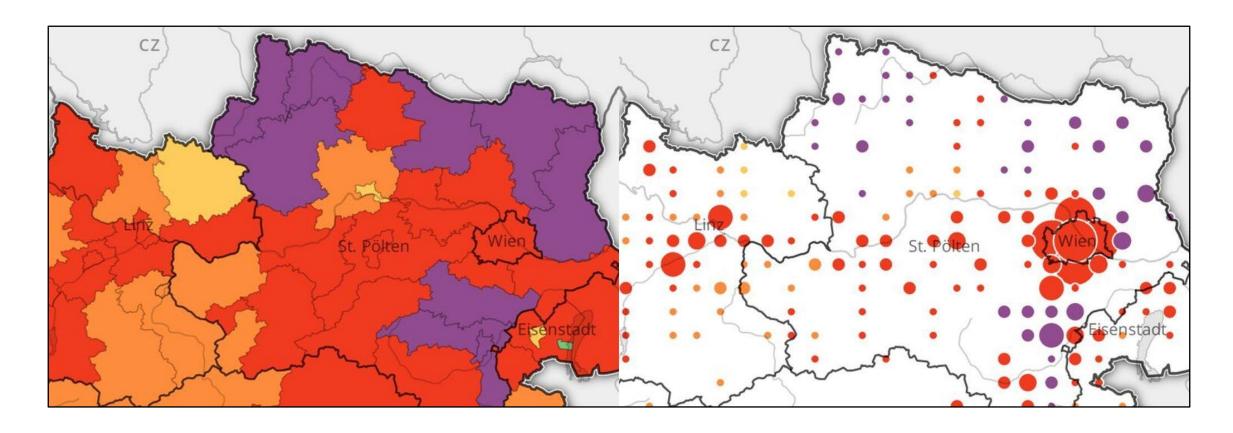


Demography





Alternative cartographic representations



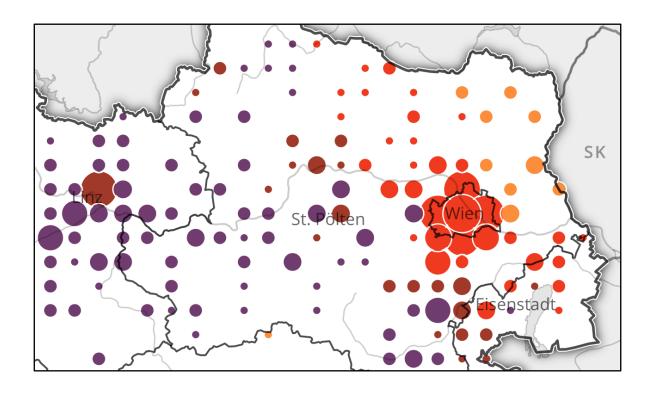


Grid representation

Grid-based visualization

Several thematic levels

Point signatures



Signatures can have the classical characteristics in cartography which can be combined in any way

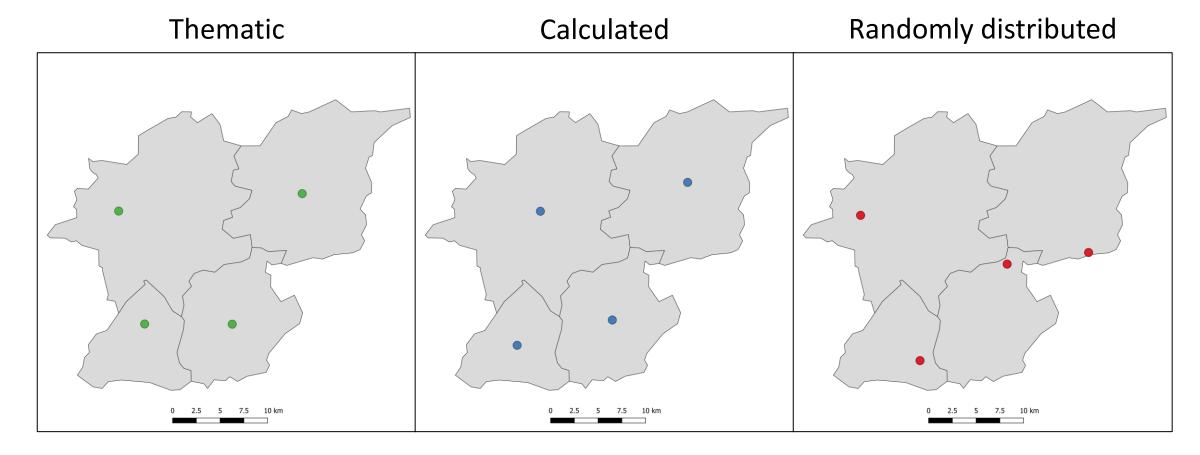


The regular grid

- Most important characteristic of this map technique
- Alternative to widely used choropleth map
- Data transformation of administrative units by reference points
 - → allows an innovative communication approach
- Chosen grid size is crucial, considering the map scale and administrative level

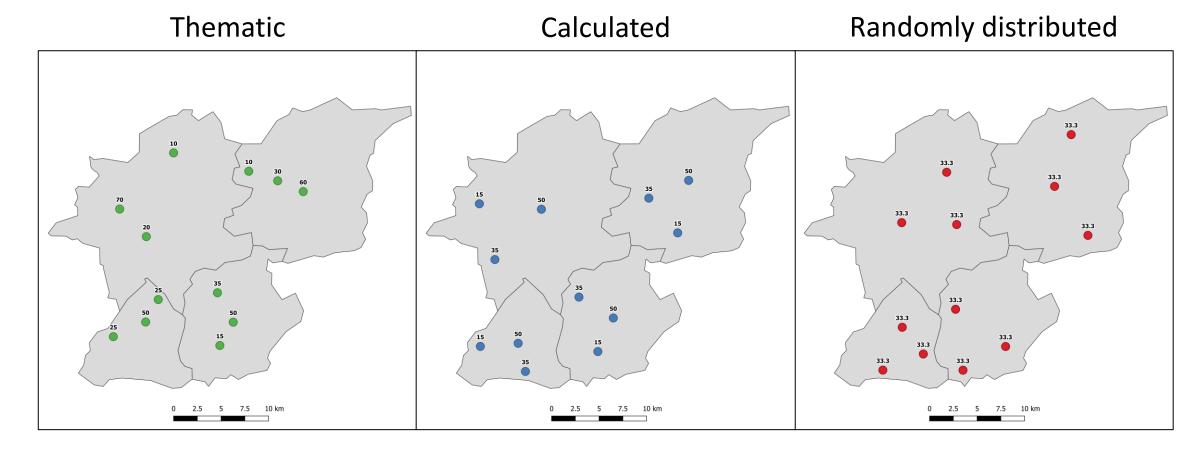


Reference points – 1 per unit





Reference points – multiple per unit



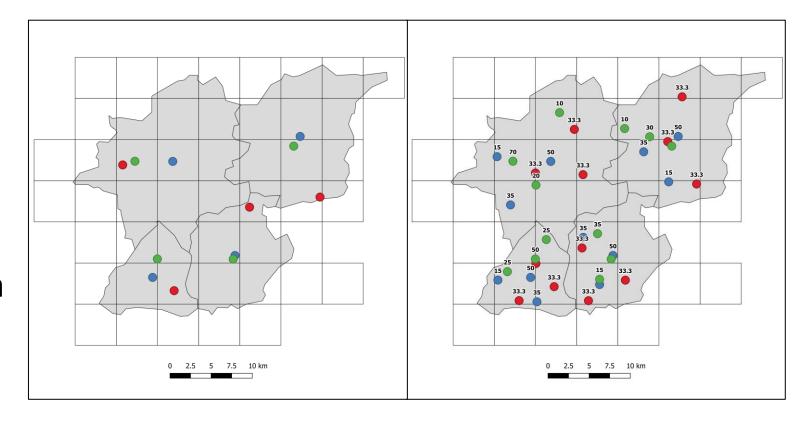


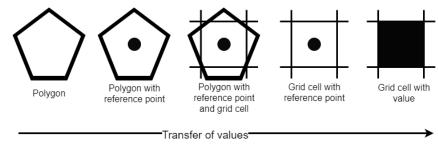
Data matching

1) Connection of areas with reference points

2) Matching of area data onto reference points

3) Aggregation of all values in the respective grid cells

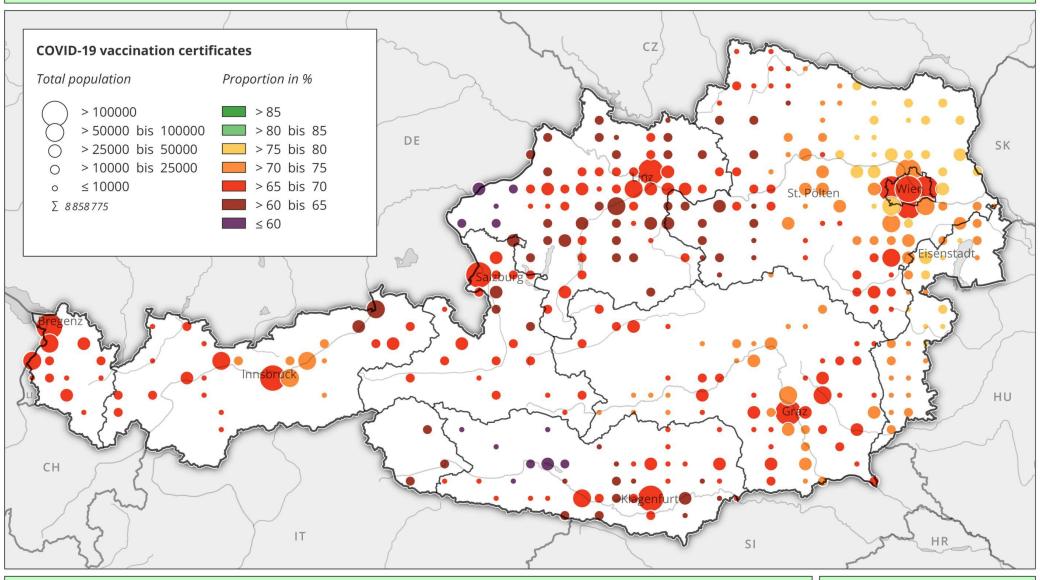








VIRUS Active COVID-19 vaccination certificates in relation to the total atlas population population

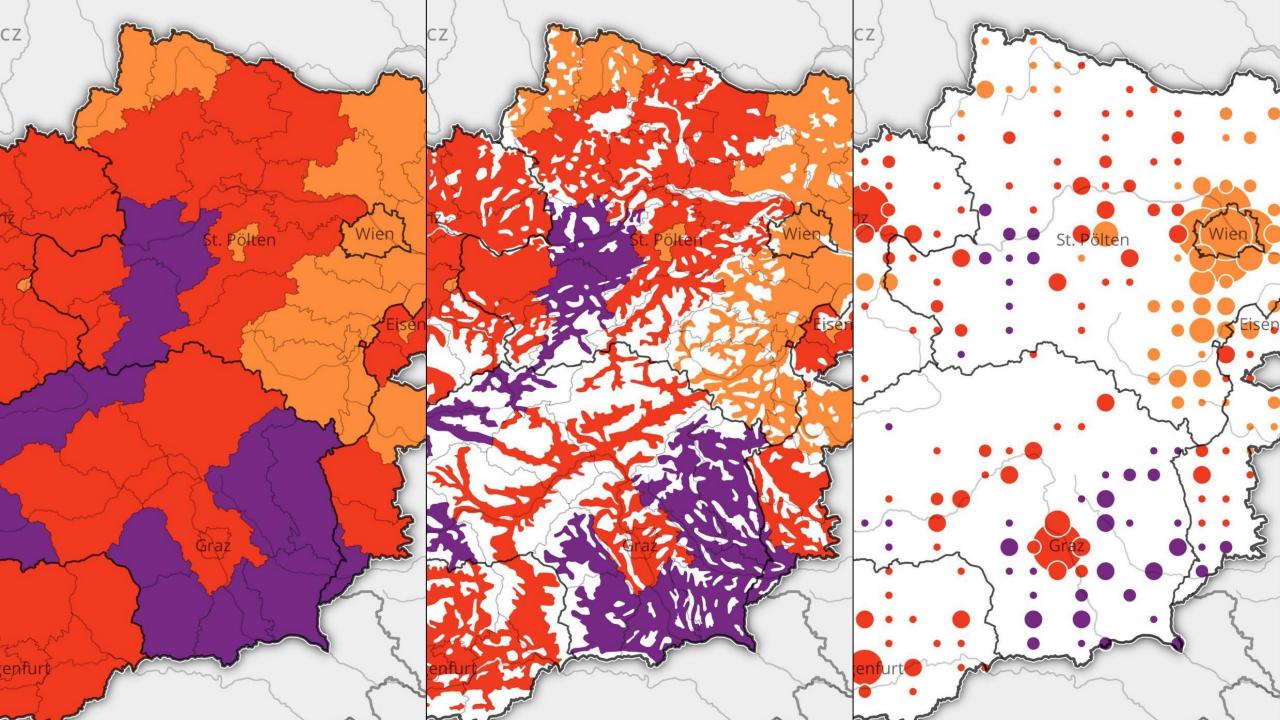


Source: Federal Ministry for Social Affairs, Health, Care and Consumer Protection, https://www.data.gv.at/covid-19

Methodik: Percentage distribution of district values based on district centres on a regular grid of 10 km

Publisher: © 2021 University of Vienna, Department of Geography and Regional Research, Cartography and Geoinformation





Results

- Advantage in terms of the flexibility of the representation of different data
 - Grid aggregation
 - Multi-layering
- Since April 2020 numerous maps have been providing daily information on COVID-19 related topics



Outlook

• Integration of further data and maps of other health-related topics

Implementation of an interactive version

- Prove of concept:
 - geo-communicative basic principle
 - methodical-conceptual implementation



Thank you for your attention



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