

PŘÍLOHY

k diplomové práci

**Hodnocení dostupnosti zdravotnických služeb
v přeshraničních regionech Evropy**

Bc. Tomáš KRÖNER

Příloha 4 Skript FCA.py

Příloha 5 Uživatelský manuál ke skriptu FCA.py

<https://github.com/katedrageoinformatiky/Kroner26>

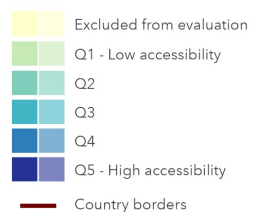
alternativně:

<https://github.com/tomaskroner/fca>

ACCESSIBILITY TO HOSPITALS

in the Latvia-Lithuania cross-border region using the 3SFCA method

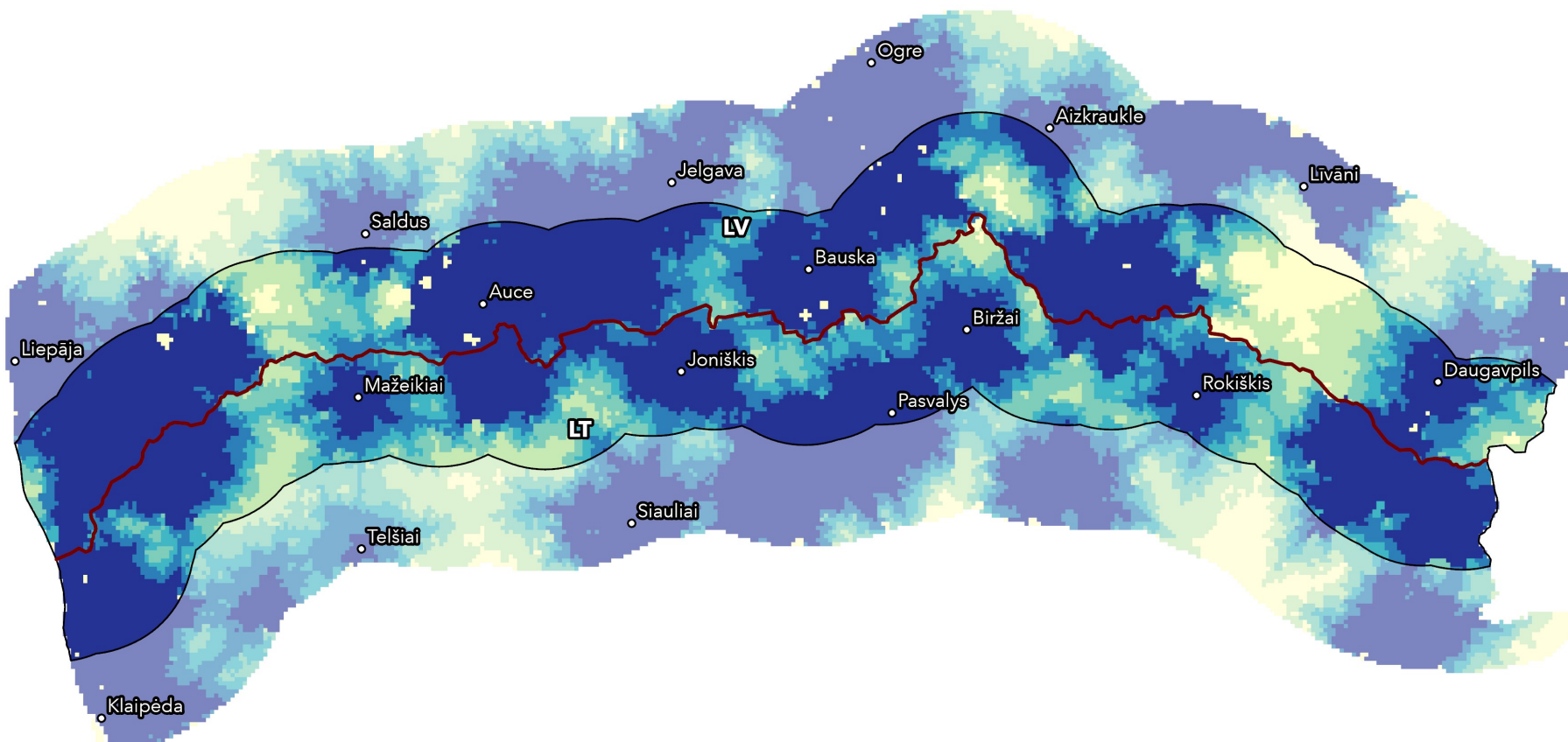
Accessibility Index – Quantiles



Region Profile

Total Population: **465 104**
Population Density: **21,48 pp/km²**
Total number of hospitals: **82**
Accessibility Index Median (3SFCA): **3,765**
Cross-border Cooperation in Healthcare: **Yes**
• **ActiHealth**

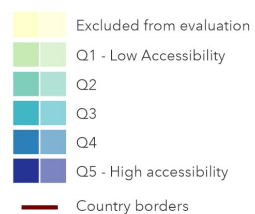
Author: Bc. Tomáš KRÖNER
Supervisor: Mgr. Vít PÁSZTO, Ph.D.
Resolution: 1x1 km grid
Coordinate System: ETRS89-LAEA
Data Sources: OpenStreetMap, 2025
Eurostat GISCO Population Grid, 2025



ACCESSIBILITY TO HOSPITALS

in the Austria-Czechia cross-border region using the 3SFCA method

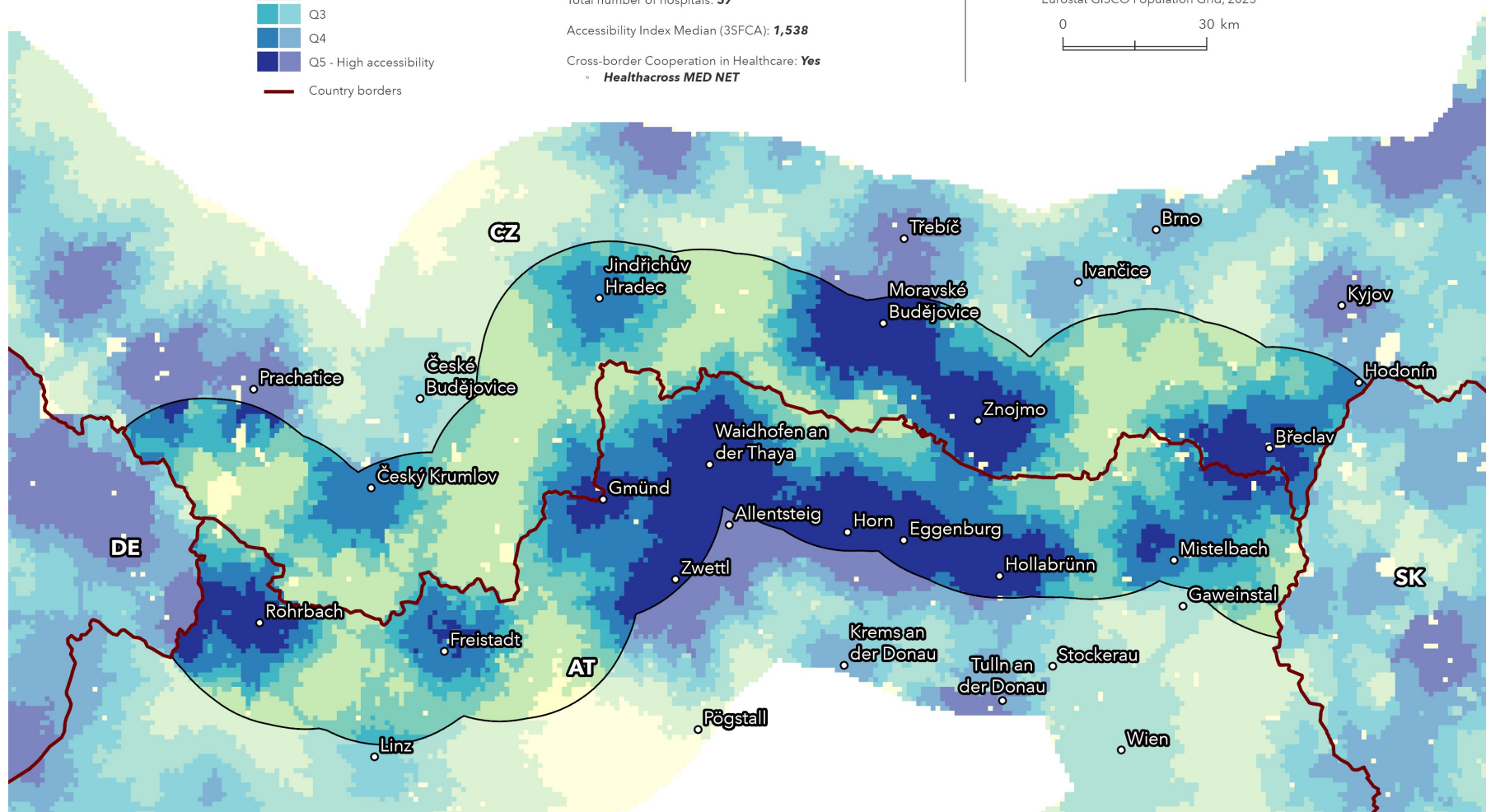
Accessibility Index – Quantiles



Region Profile

Total Population: **924 866**
Population Density: **61,09 pp/km²**
Total number of hospitals: **57**
Accessibility Index Median (3SFCA): **1,538**
Cross-border Cooperation in Healthcare: **Yes**
◦ **Healthcross MED NET**

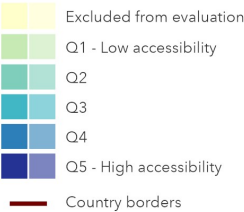
Author: Bc. Tomáš KRÖNER
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Resolution: 1x1 km grid
Coordinate System: ETRS89-LAEA
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ACCESSIBILITY TO HOSPITALS

in the Italy-Slovenia cross-border region using the 3SFCA method

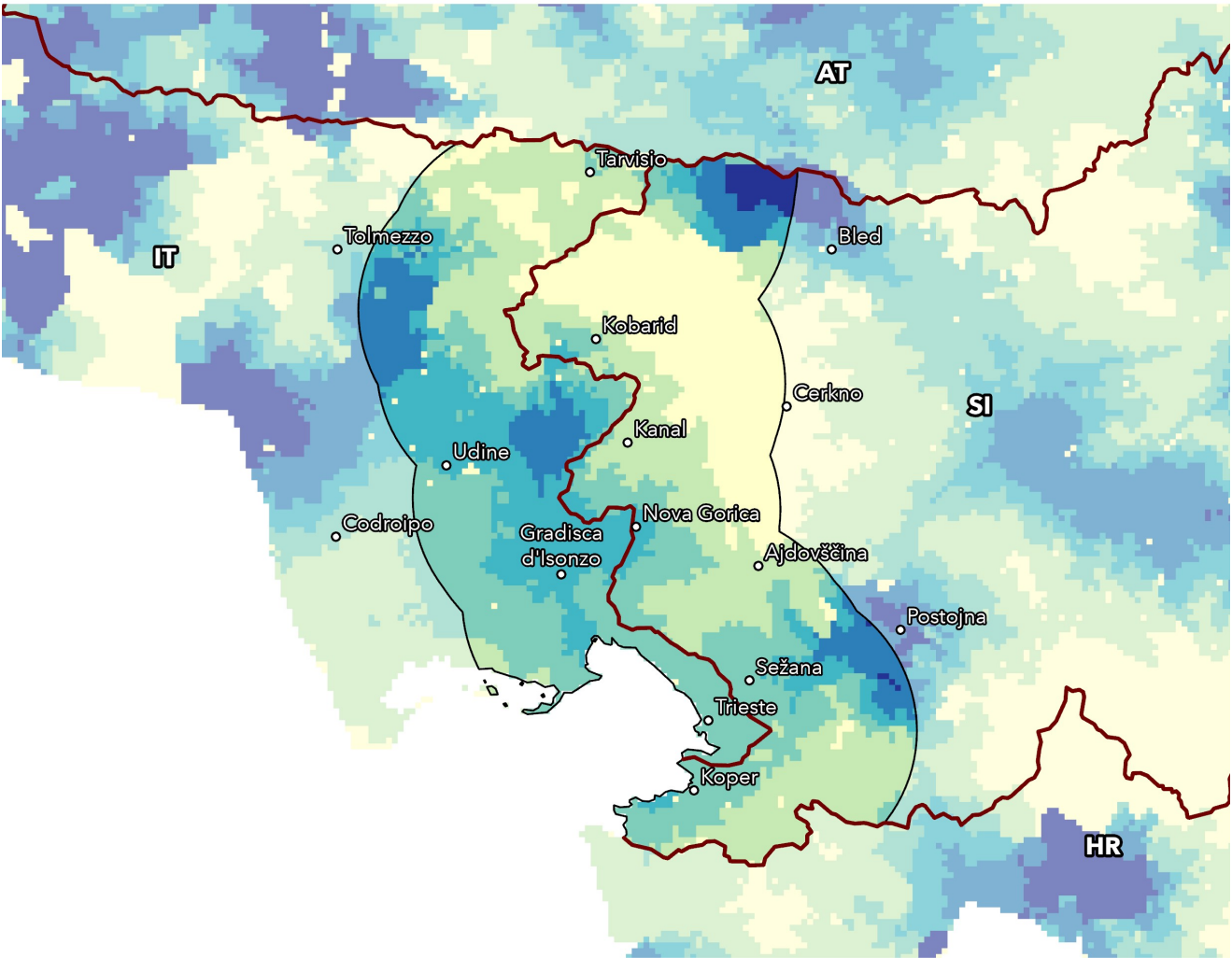
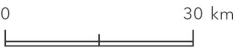
Accessibility Index – Quantiles



Region Profile

Total Population: **957 430**
Population Density: **133,97 pp/km²**
Total number of hospitals: **17**
Accessibility Index Median (3SFCA): **0,955**
Cross-border Cooperation in Healthcare: **Yes**
◦ **SALUTE-ZDRAVSTVO Project**

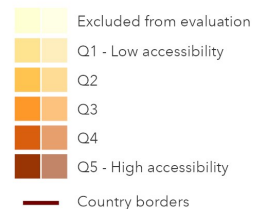
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Coordinate System: ETRS89-LAEA
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ACCESSIBILITY TO DOCTORS

in the Austria-Germany cross-border region using the 3SFCA method

Accessibility Index – Quantiles

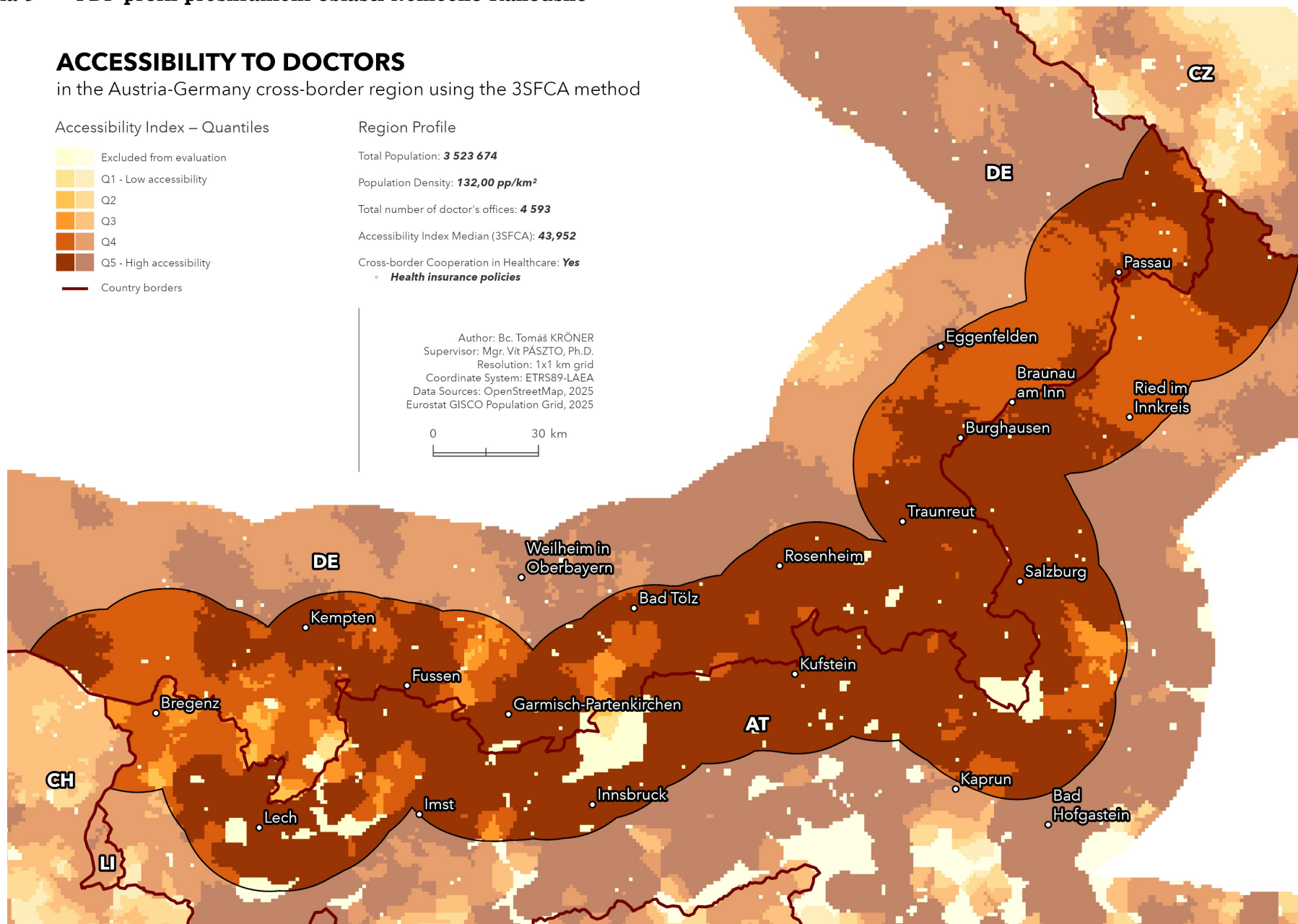


Region Profile

Total Population: **3 523 674**
Population Density: **132,00 pp/km²**
Total number of doctor's offices: **4 593**
Accessibility Index Median (3SFCA): **43,952**
Cross-border Cooperation in Healthcare: **Yes**
• **Health insurance policies**

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Coordinate System: ETRS89-LAEA
Data Sources: OpenStreetMap, 2025
Eurostat GISCO Population Grid, 2025

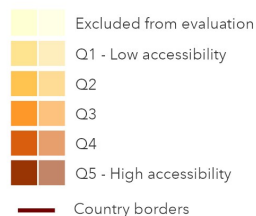
0 30 km



ACCESSIBILITY TO DOCTORS

in the Germany-Netherlands cross-border region
using the 3SFCA method

Accessibility Index – Quantiles



Region Profile

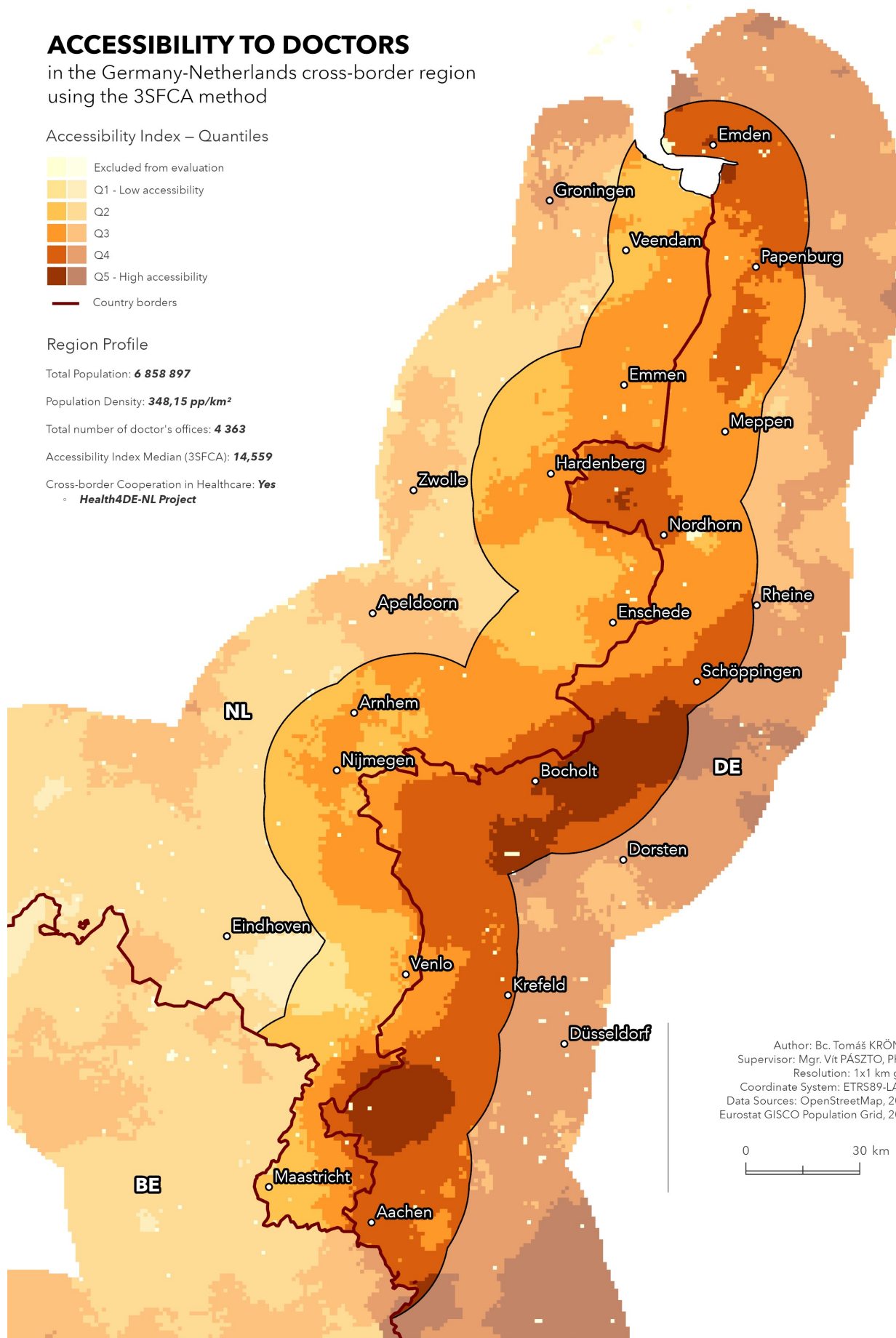
Total Population: **6 858 897**

Population Density: **348,15 pp/km²**

Total number of doctor's offices: **4 363**

Accessibility Index Median (3SFCA): **14,559**

Cross-border Cooperation in Healthcare: **Yes**
• **Health4DE-NL Project**



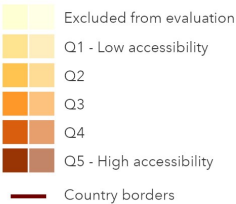
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Coordinate System: ETRS89-LAEA
Data Sources: OpenStreetMap, 2025
Eurostat GISCO Population Grid, 2025



ACCESSIBILITY TO DOCTORS

in the Estonia-Latvia cross-border region using the 3SFCA method

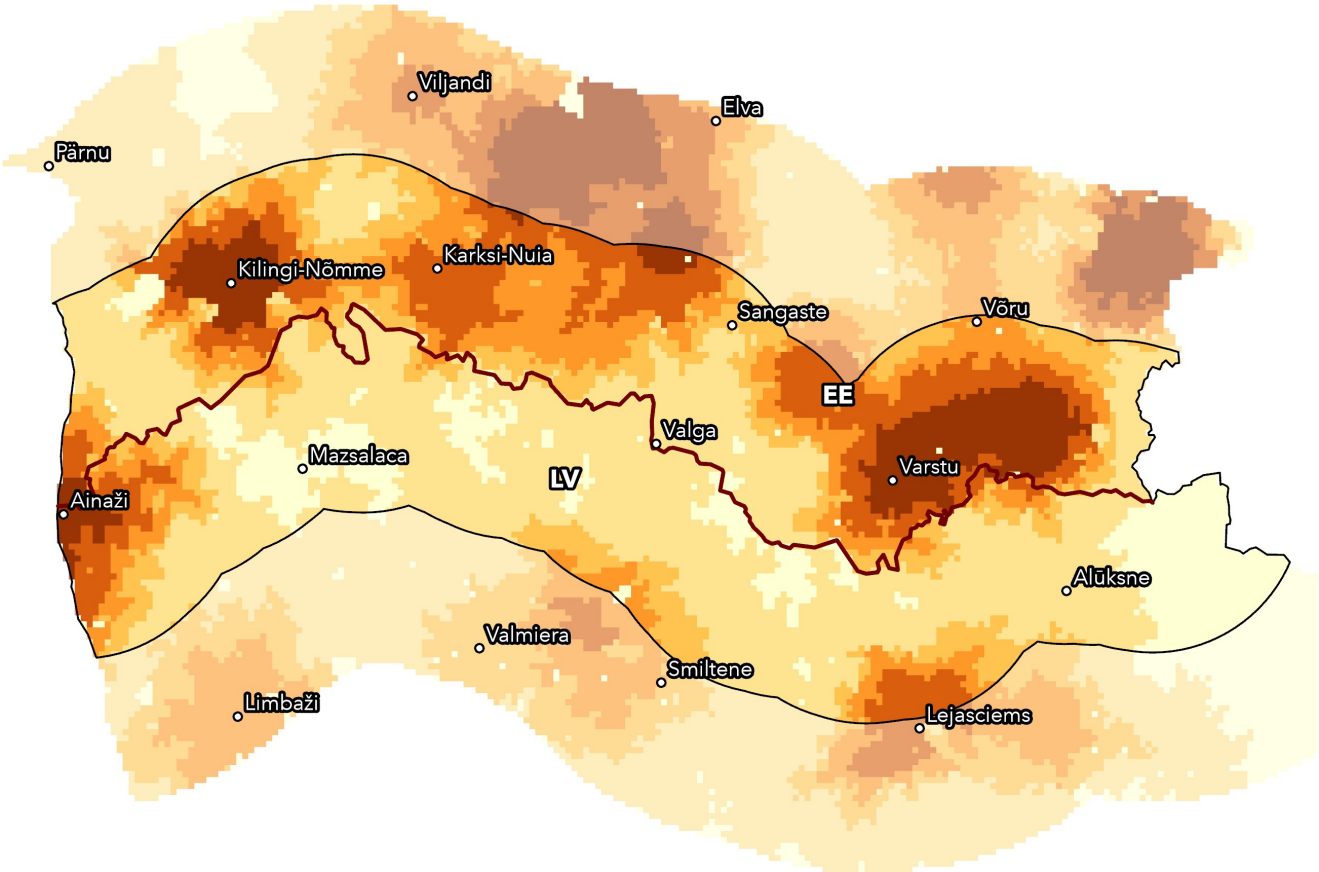
Accessibility Index – Quantiles



Region Profile

Total Population: **111 713**
Population Density: **9,79 pp/km²**
Total number of doctor's offices: **104**
Accessibility Index Median (3SFCA): **6,242**
Cross-border Cooperation in Healthcare: **Yes**
◦ **Valga and Valka hospital cooperation**

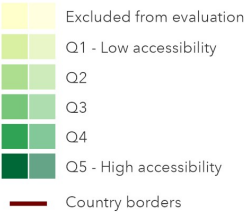
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ACCESSIBILITY TO PHARMACIES

in the Austria-Slovakia cross-border region using the 3SFCA method

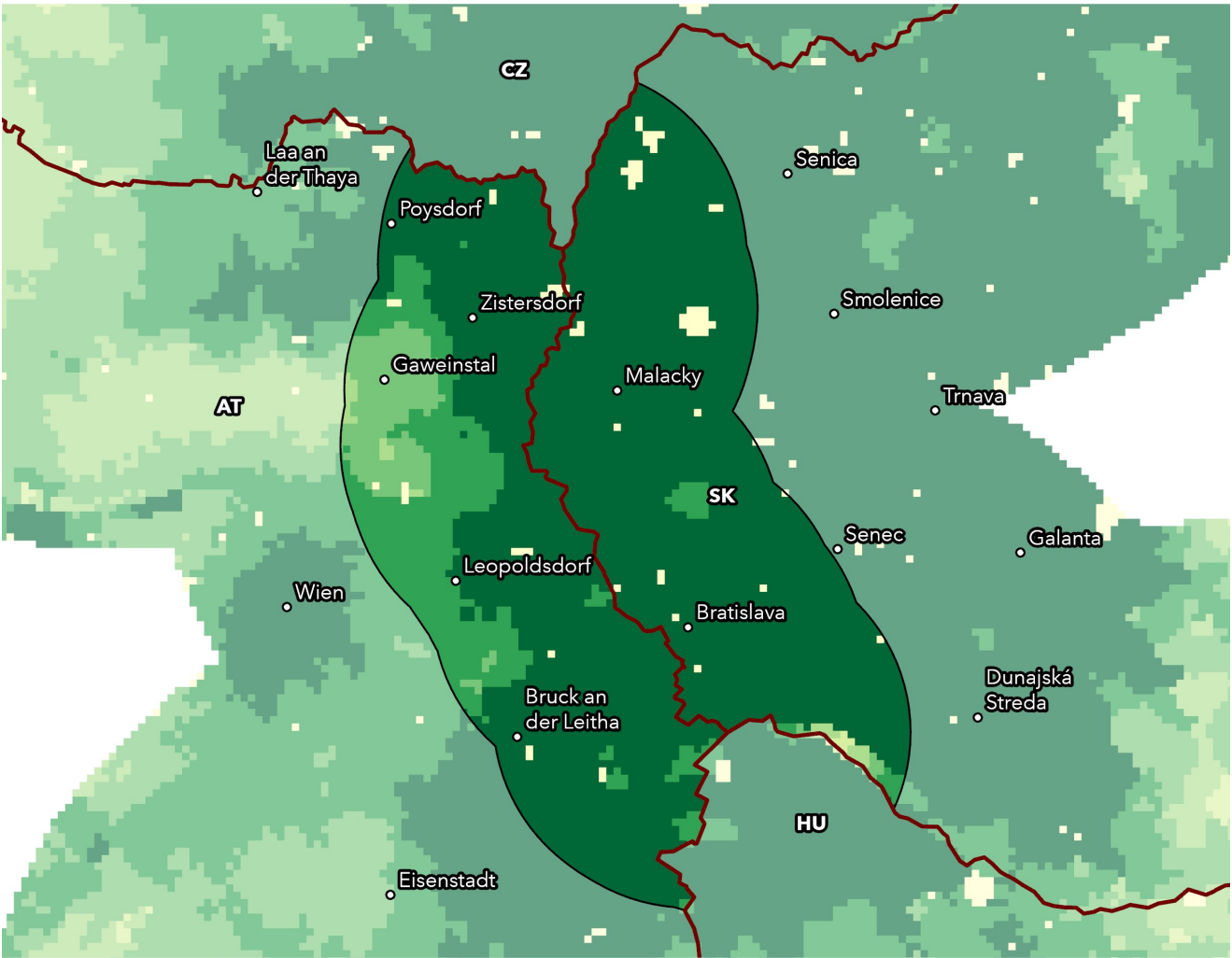
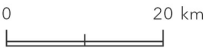
Accessibility Index – Quantiles



Region Profile

Total Population: **959 820**
Population Density: **190,85 pp/km2**
Total number of pharmacies: **3 784**
Accessibility Index Median (3SFCA): **112,089**
Cross-border Cooperation in Healthcare: **Yes**
◦ **Healthacross Initiative**

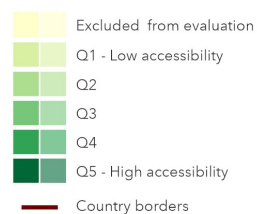
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ACCESSIBILITY TO PHARMACIES

in the Germany-Switzerland cross-border region using the 3SFCA method

Accessibility Index – Quantiles



Region Profile

Total Population: **4 160 404**

Population Density: **420,20 pp/km²**

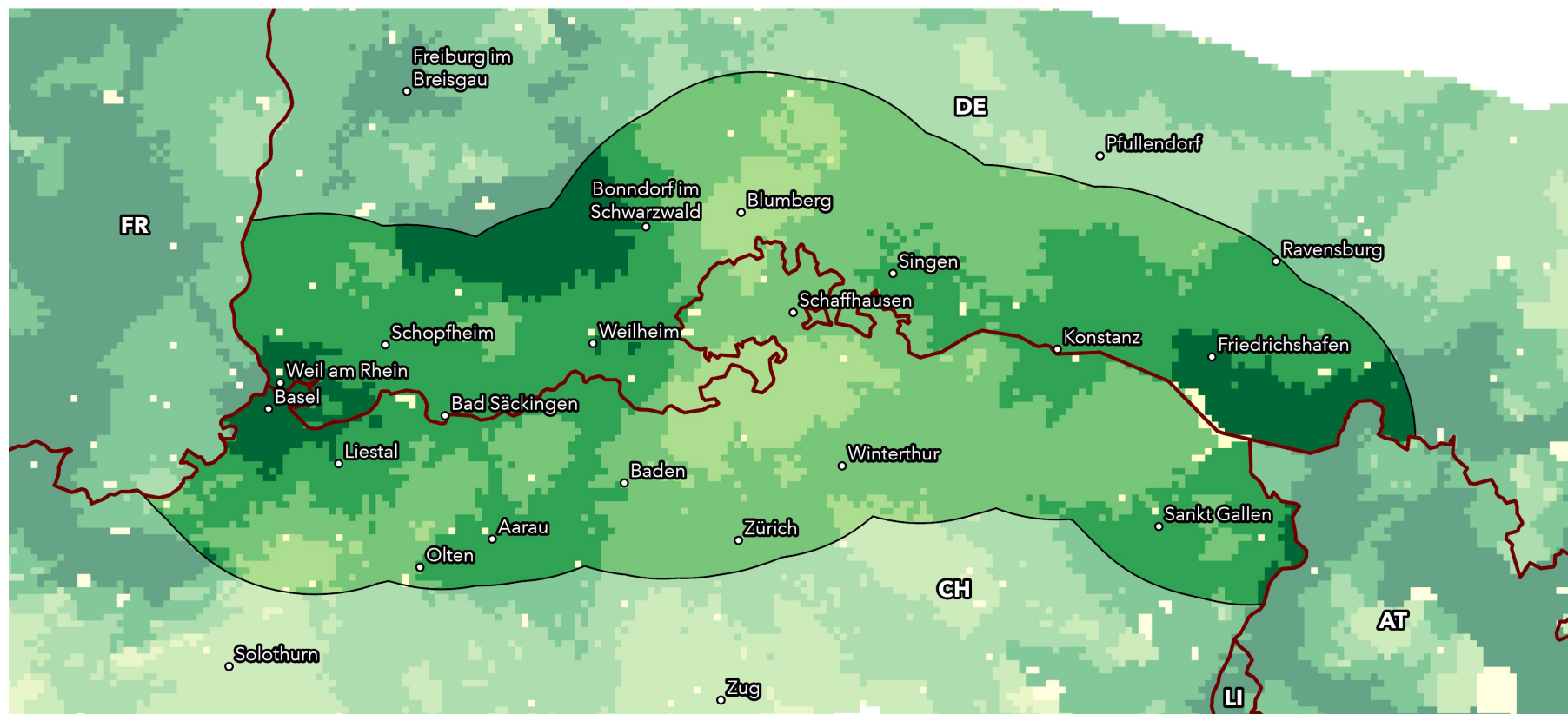
Total number of pharmacies: **2 897**

Accessibility Index Median (3SFCA): **39,510**

Cross-border Cooperation in Healthcare: **Yes**

- Eurodistrict of Basel
- Dreiland-Klinikum Lörrach

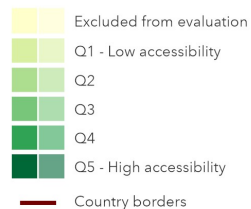
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ACCESSIBILITY TO PHARMACIES

in the Bulgaria-Greece cross-border region using the 3SFCA method

Accessibility Index – Quantiles

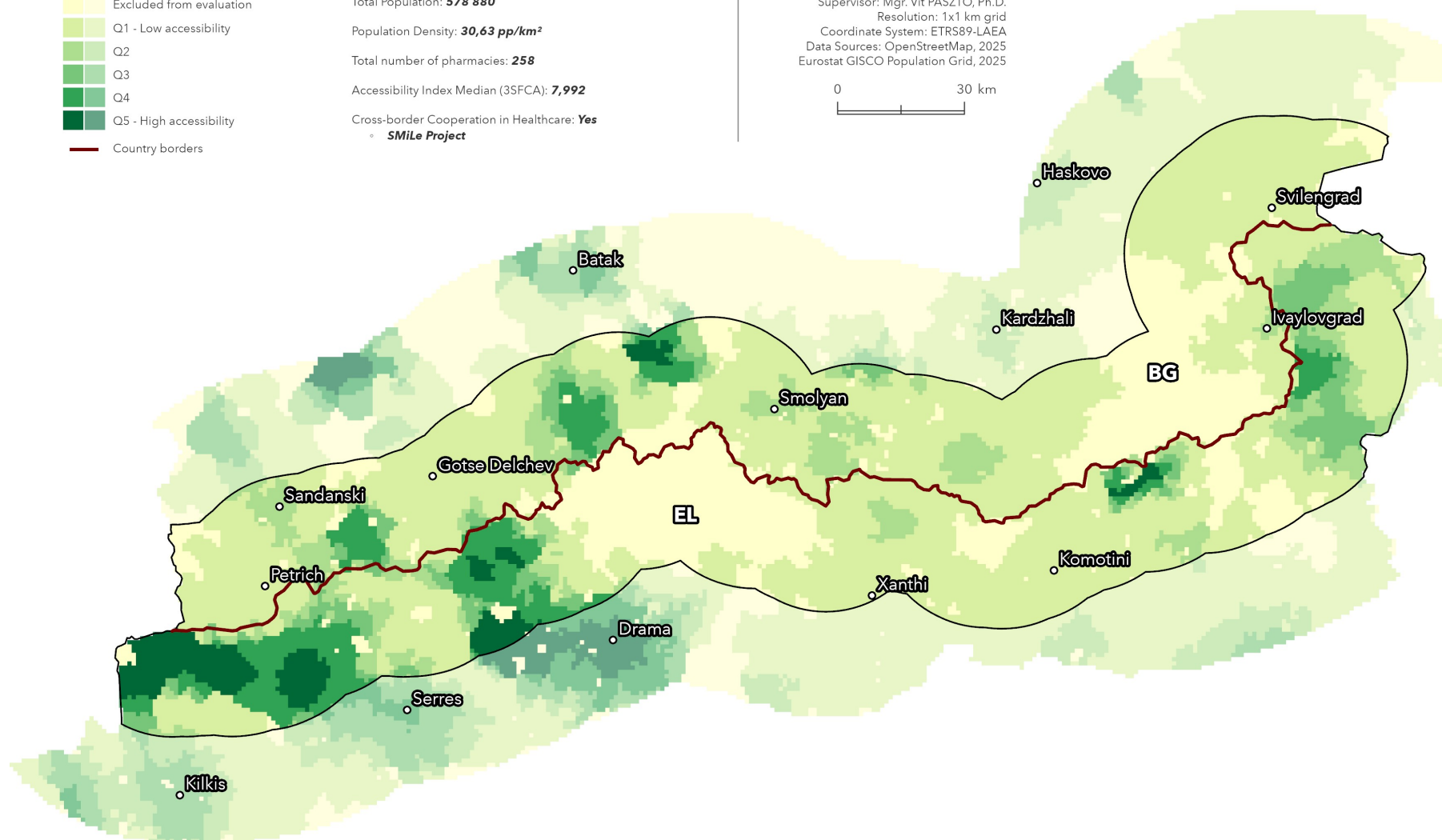


Region Profile

Total Population: **578 880**
Population Density: **30,63 pp/km²**
Total number of pharmacies: **258**
Accessibility Index Median (3SFCA): **7,992**
Cross-border Cooperation in Healthcare: **Yes**
• **SMiLe Project**

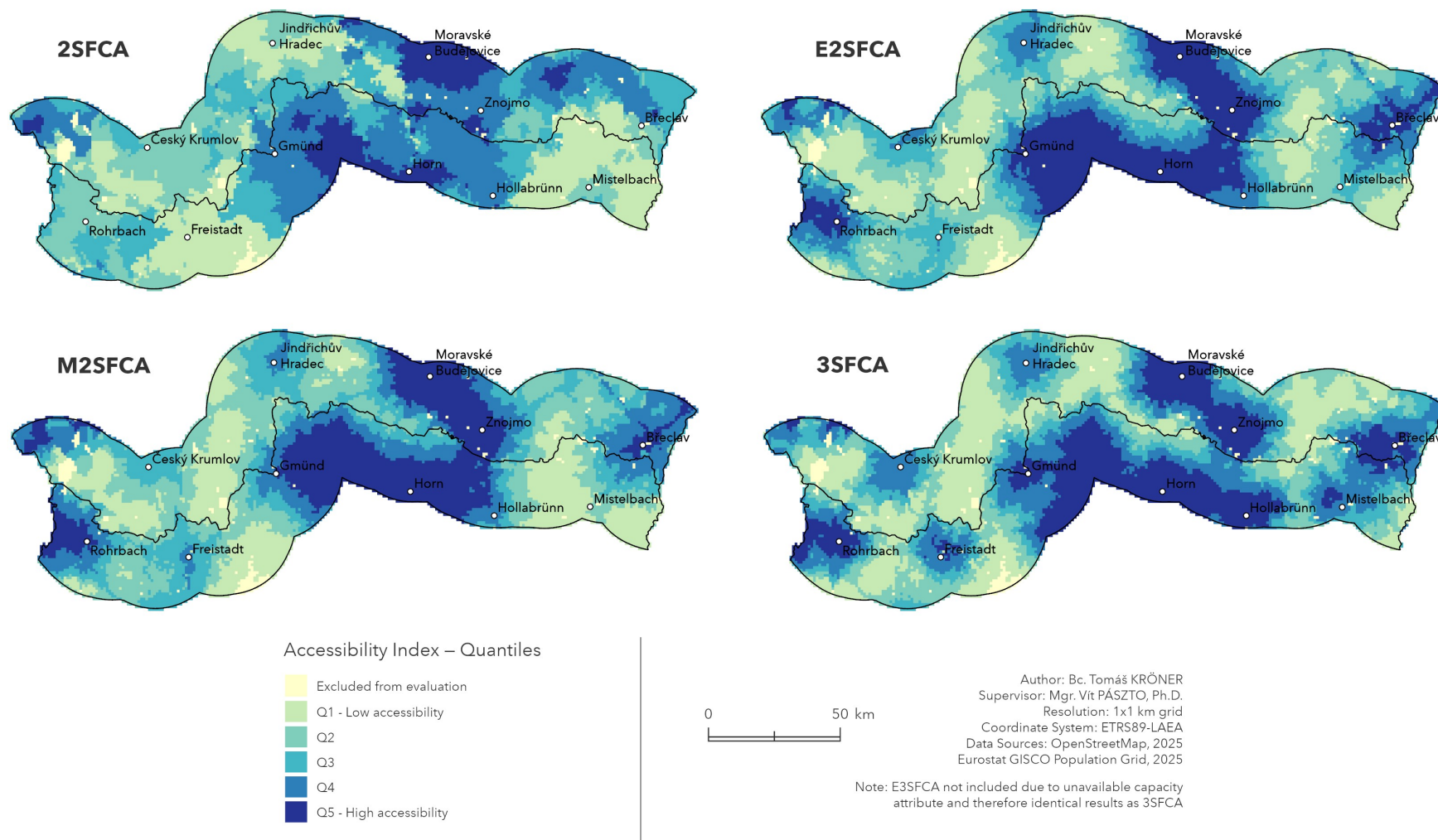
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Data Sources: OpenStreetMap, 2025
Eurostat GISCO Population Grid, 2025

0 30 km



COMPARISON OF FLOATING CATCHMENT AREA METHODS

using hospital accessibility in the Austria-Czechia cross-border region



Příloha 16 Cross-border Healthcare Accessibility Portal

<https://experience.arcgis.com/experience/2487cbce5b08434db8aa03c5eb0b6269>

Příloha 17 Accessibility to healthcare services

<https://storymaps.arcgis.com/stories/7393337e839f4dd3a9913eb47ebd9f0f>

Příloha 18 Classification of cross-border regions

<https://storymaps.arcgis.com/stories/375da21ba1ff413eac3ab71752c490e3>

Příloha 19 Regional fiches

<https://storymaps.arcgis.com/stories/8bc9737d526d48aeb8aad72296951531>

Příloha 20 Top quantile overlay

<https://experience.arcgis.com/experience/1844f9fd456d44c39093e5de056eeceb>

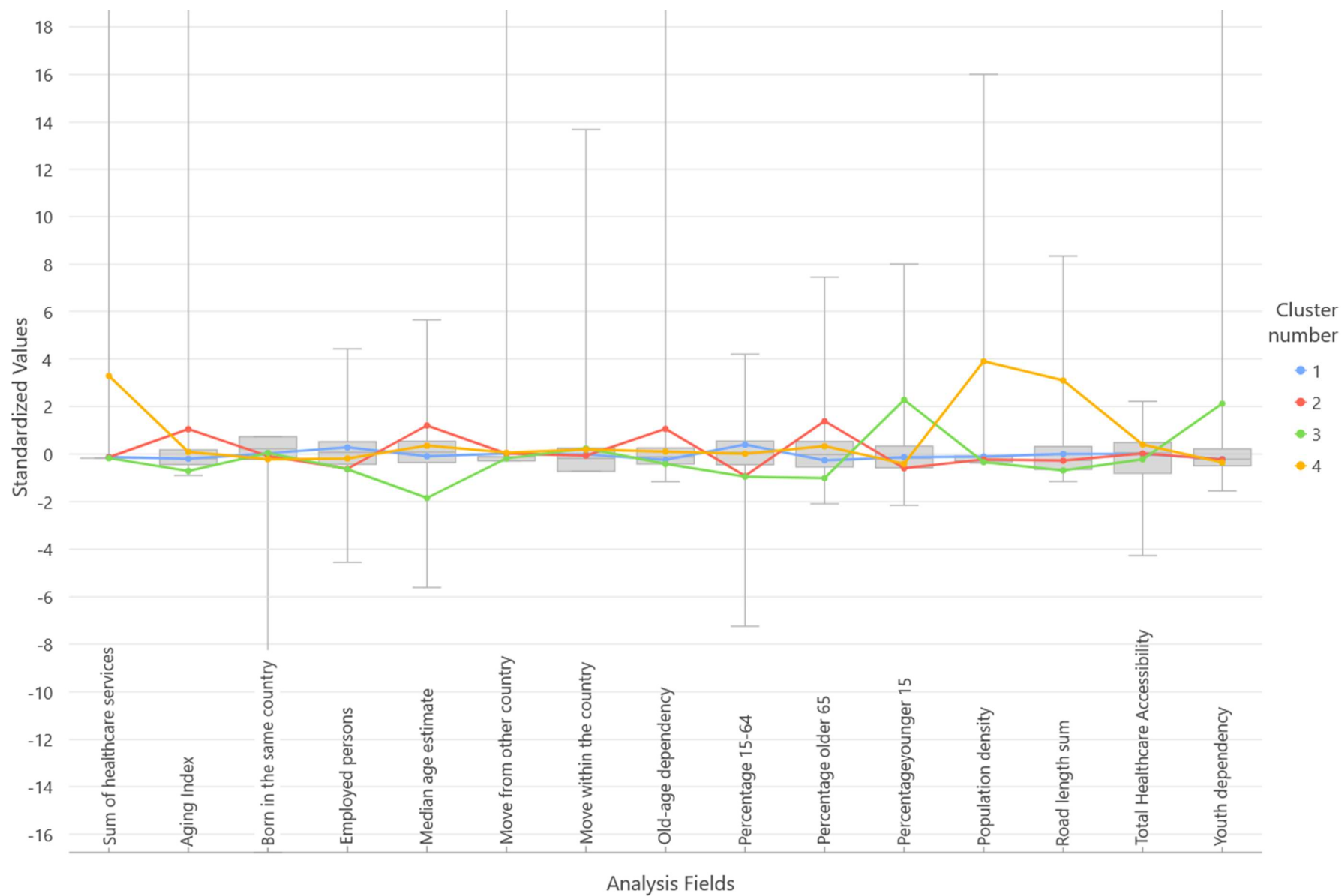
Příloha 21 Cross-border regions of Czechia

<https://storymaps.arcgis.com/stories/2458d05e328d4ffeb521c34de10f5026>

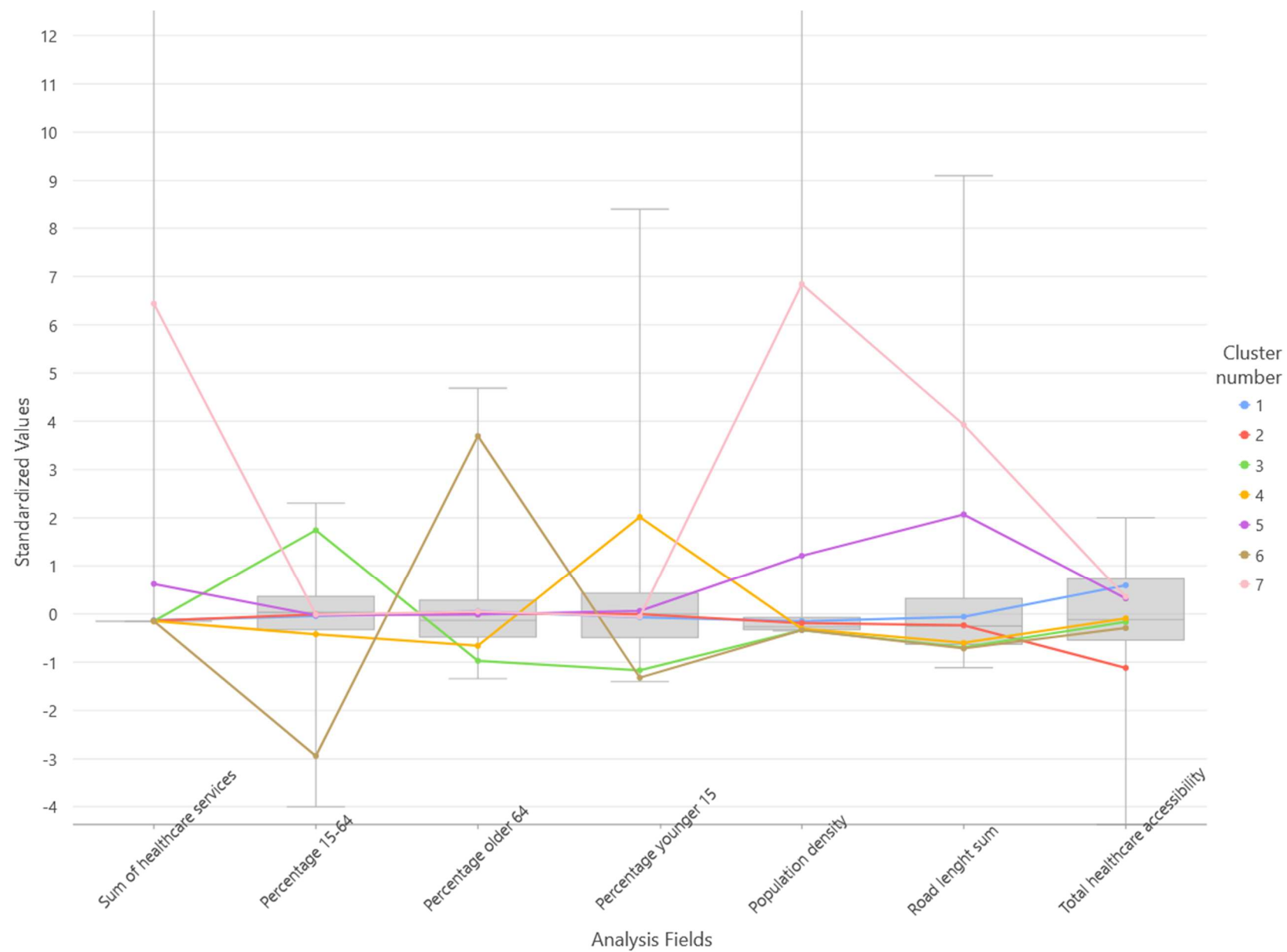
Příloha 22 Czechia: Multivariate clustering

<https://storymaps.arcgis.com/stories/d5252d6b49e54dddadc79ebf42a4ede2>

Příloha 23 Multivariate clustering box-plots s využitím všech vstupních atributů

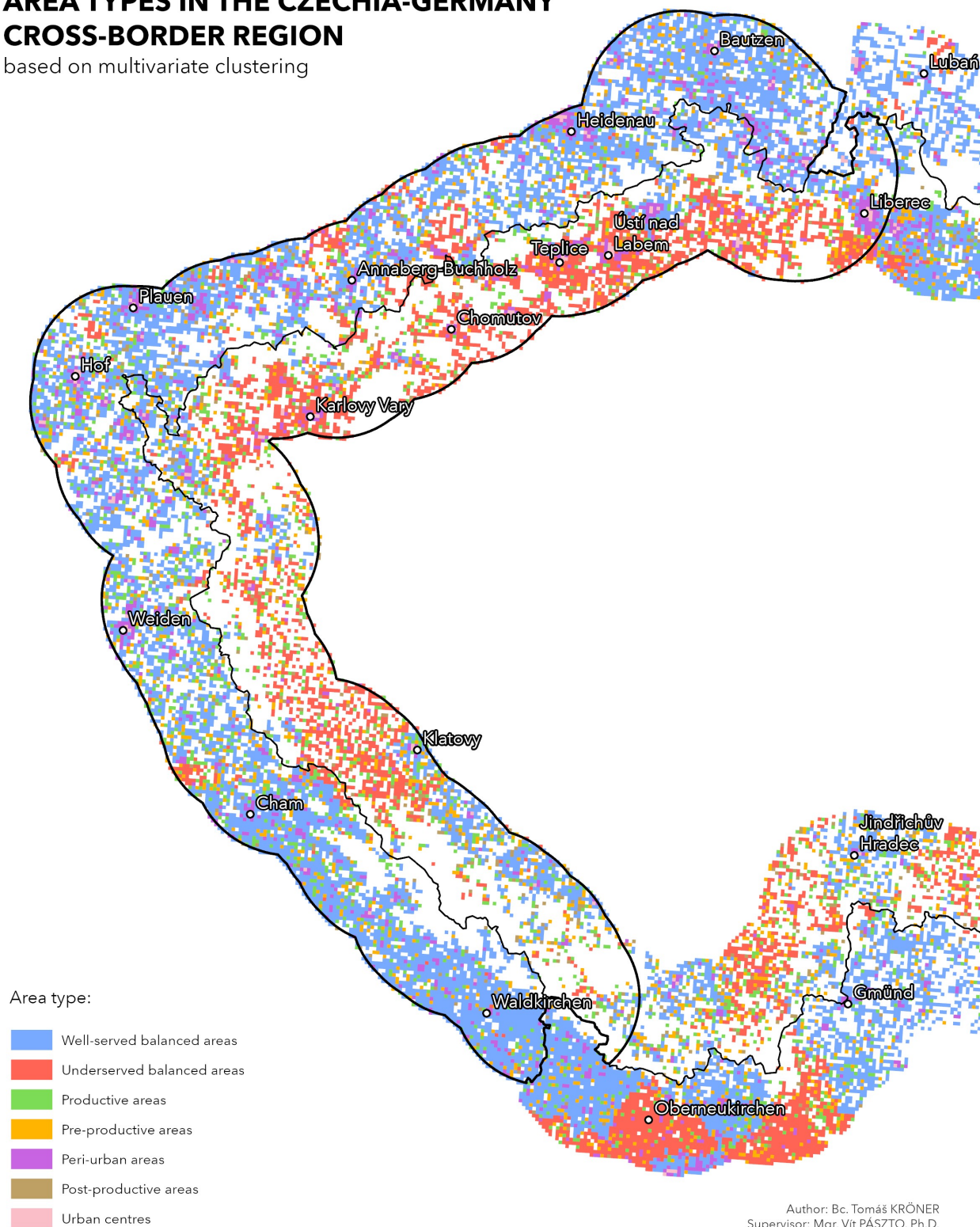


Příloha 24 Multivariate clustering box-plots s využitím vybraných vstupních atributů



AREA TYPES IN THE CZECHIA-GERMANY CROSS-BORDER REGION

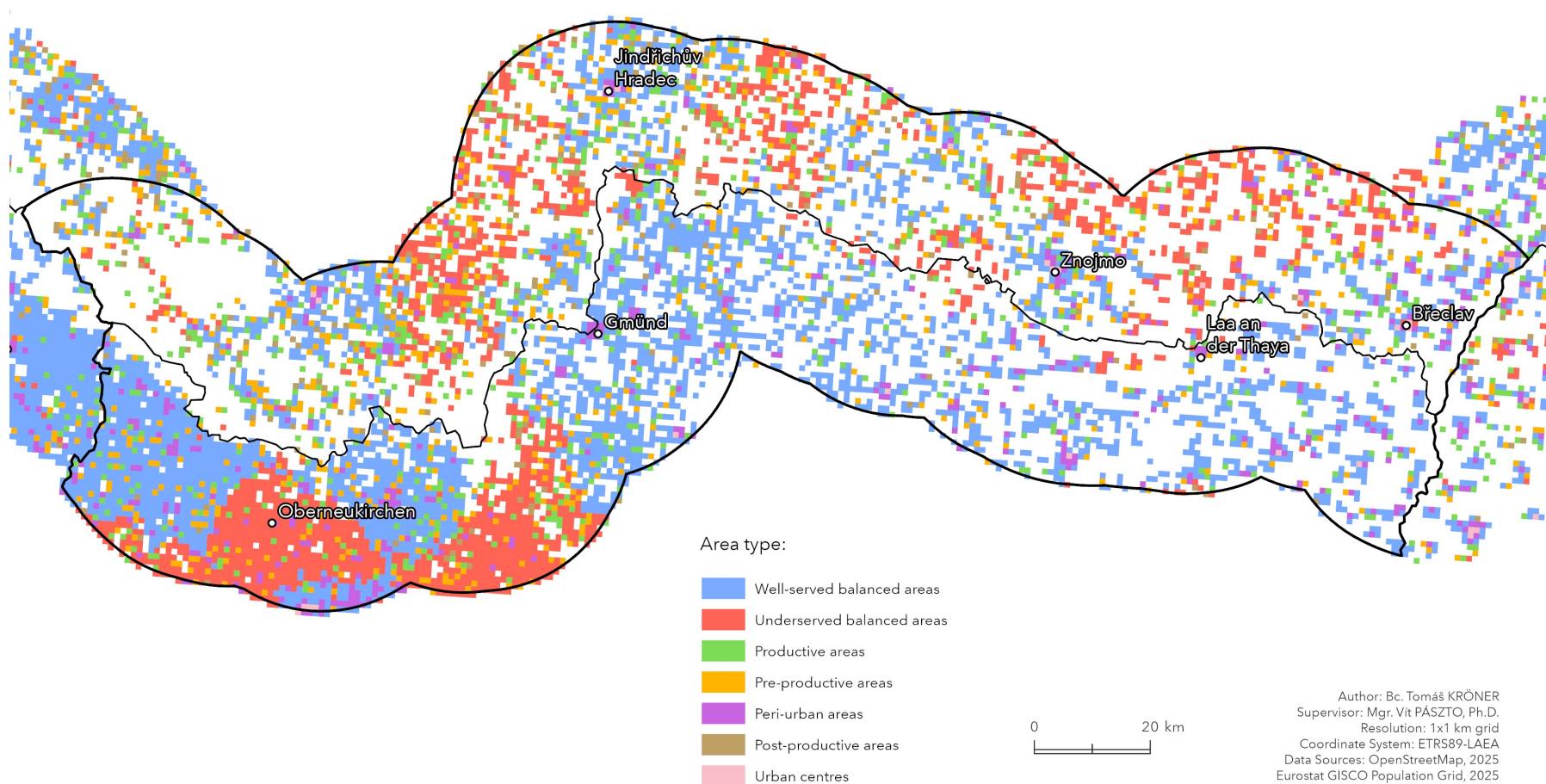
based on multivariate clustering



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AREA TYPES IN THE AUSTRIA-CZECHIA CROSS-BORDER REGION

based on multivariate clustering

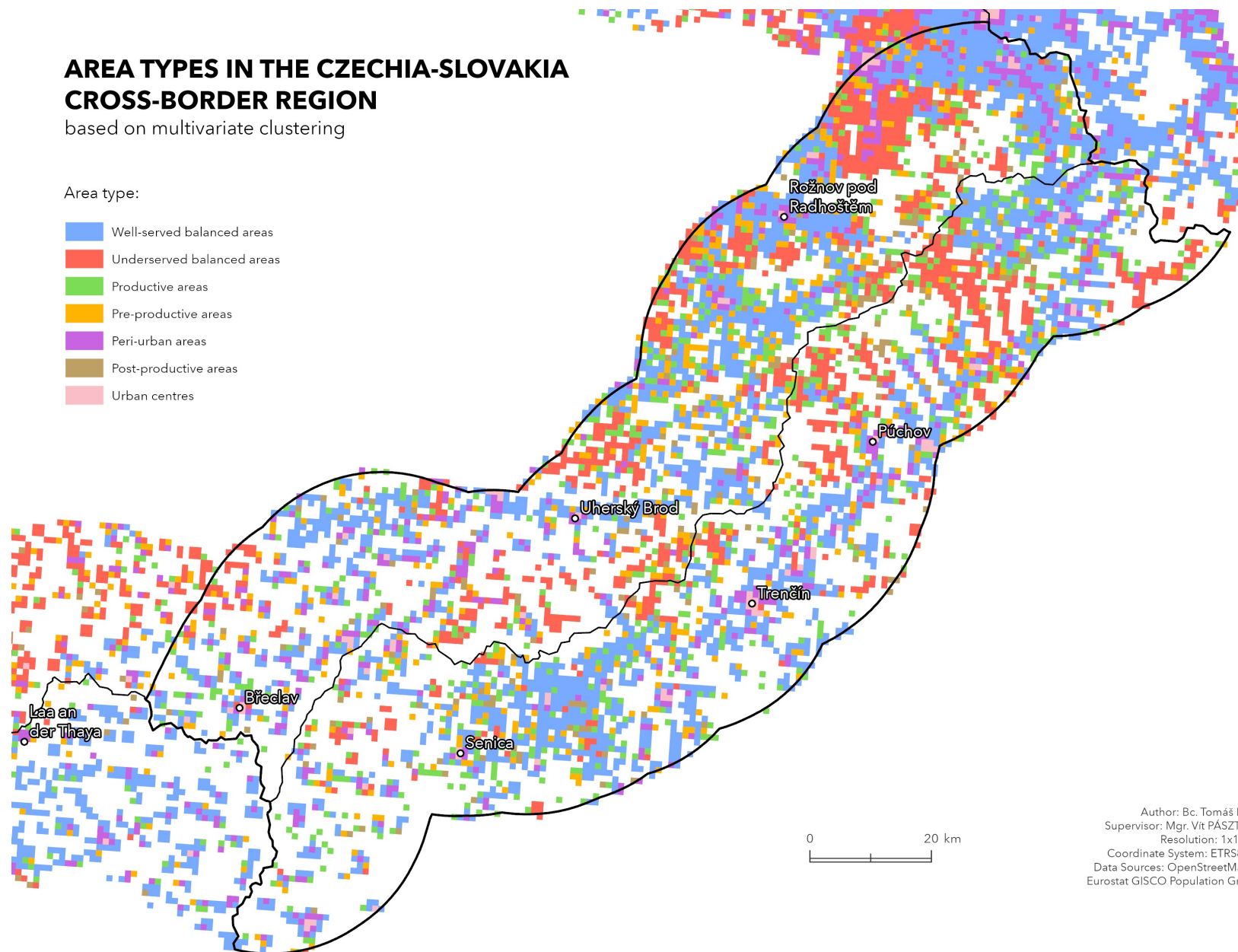


AREA TYPES IN THE CZECHIA-SLOVAKIA CROSS-BORDER REGION

based on multivariate clustering

Area type:

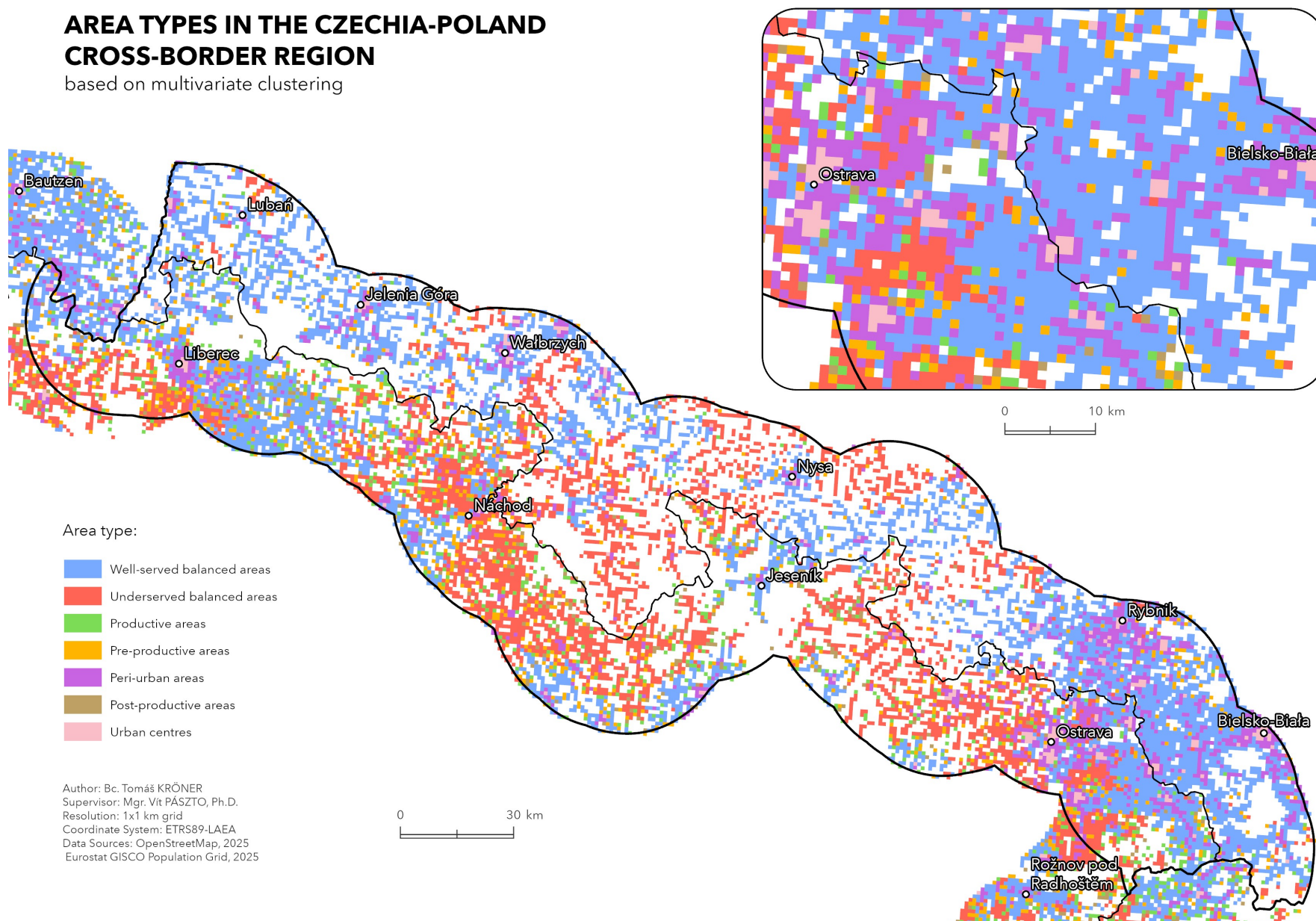
- Well-served balanced areas
- Underserved balanced areas
- Productive areas
- Pre-productive areas
- Peri-urban areas
- Post-productive areas
- Urban centres



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AREA TYPES IN THE CZECHIA-POLAND CROSS-BORDER REGION

based on multivariate clustering



Příloha 29 Poster diplomové práce

DP_Kroner_Poster.pdf

DP_Kroner_Poster.jpg

Příloha 30 Web diplomové práce

<https://www.geoinformatics.upol.cz/dprace/magisterske/kroner26>