

Shin Alexandre Koseki
PhD MArch

Chôros Paris
Lausanne Center for Digital Humanities
EPFL Habitat Research Center

Spatial Design & Democracy

Mapping the Intersect of Values in Urban Space

Universidad Torcuato Di Tella, Buenos Aires

June 25, 2020



**The intersection of values
and urban space is a
powerful tool to understand
and design better cities and
territories for inhabitants**

The **intersection** of values
and **urban space** is a
powerful tool to **understand**
and **design** **better** **cities** and
territories for **inhabitants**



10.5281/zenodo.3909467 Changyang, Yichang, Hubei, China — Zhenrui Mei



Highlands Ranch, United States — Craig Hellier

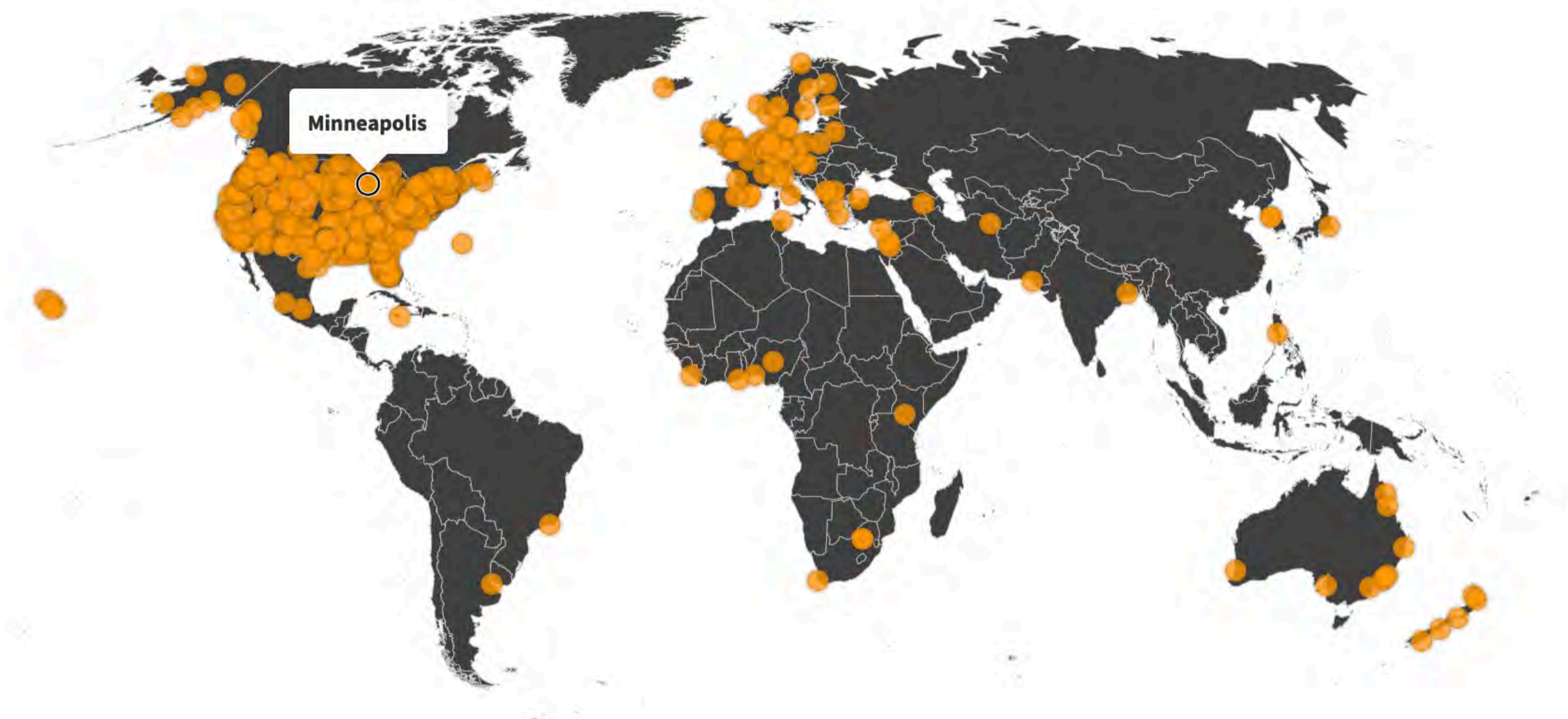


© The Wallstreet Journal

Koseki S.A, "Spatial Design & Democracy". Buenos Aires, June 25, 2020



Anti-racism protests in Montreal, Canada – Ying Ge



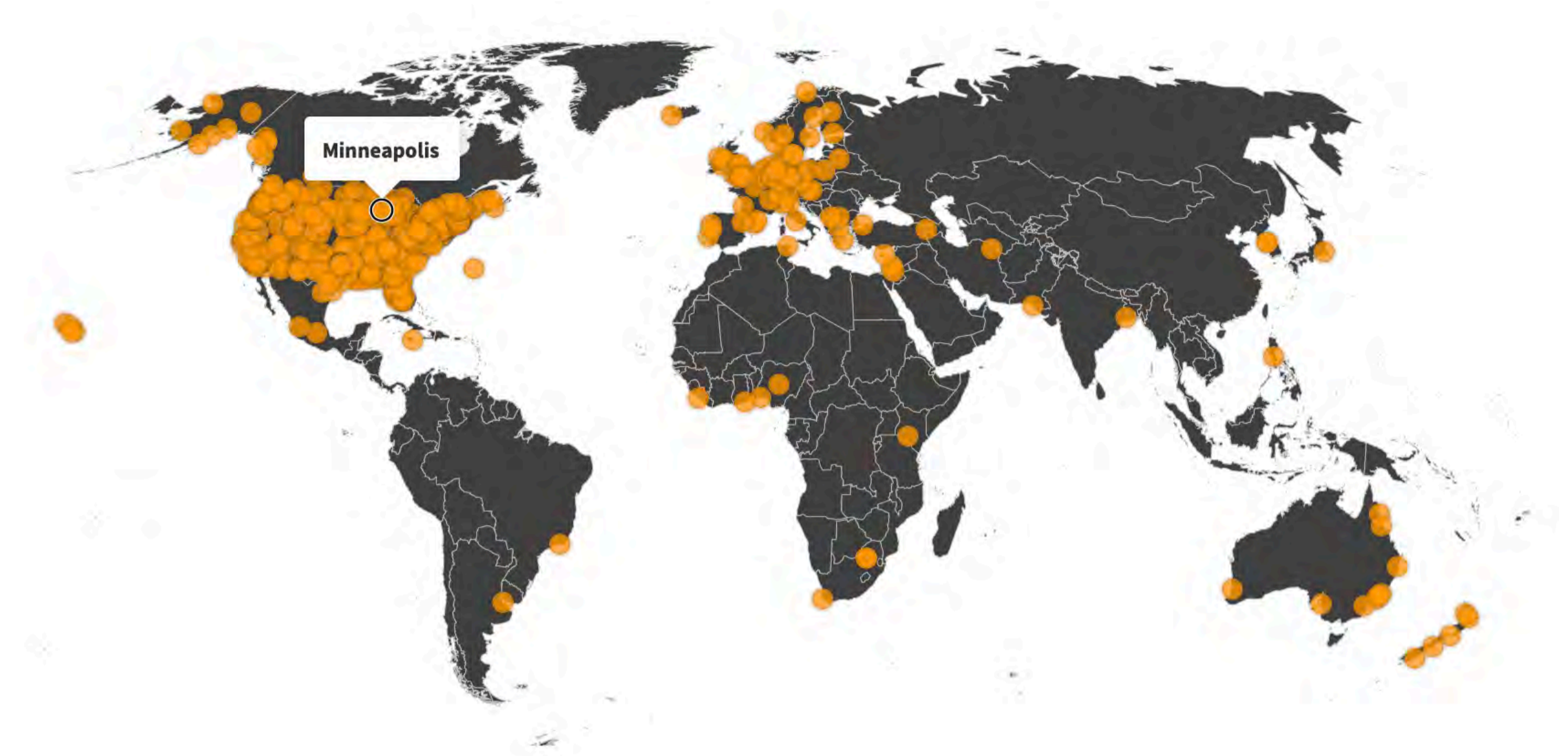
George Floyd Solidarity Protests — © Al Jazeera



George Floyd's death followed his arrest in Minneapolis

From spatial values To design tools

- Connectedness
- Accessibility
- Distribution



George Floyd Solidarity Protests — © Al Jazeera



© The Wallstreet Journal

Koseki S.A, "Spatial Design & Democracy". Buenos Aires, June 25, 2020



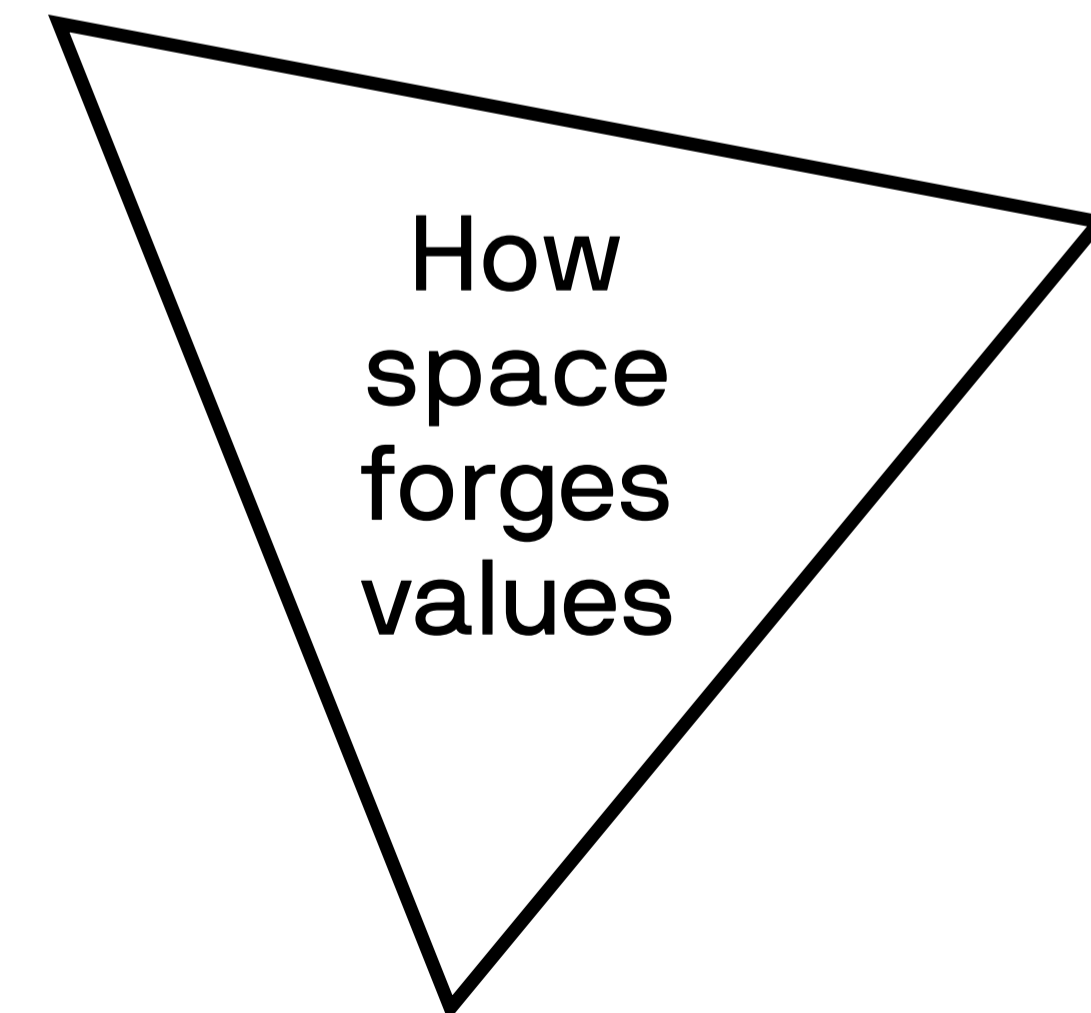
Anti-racism protests in Montreal, Canada – Ying Ge



Highlands Ranch, United States – Craig Hellier

Copresence

Telecom

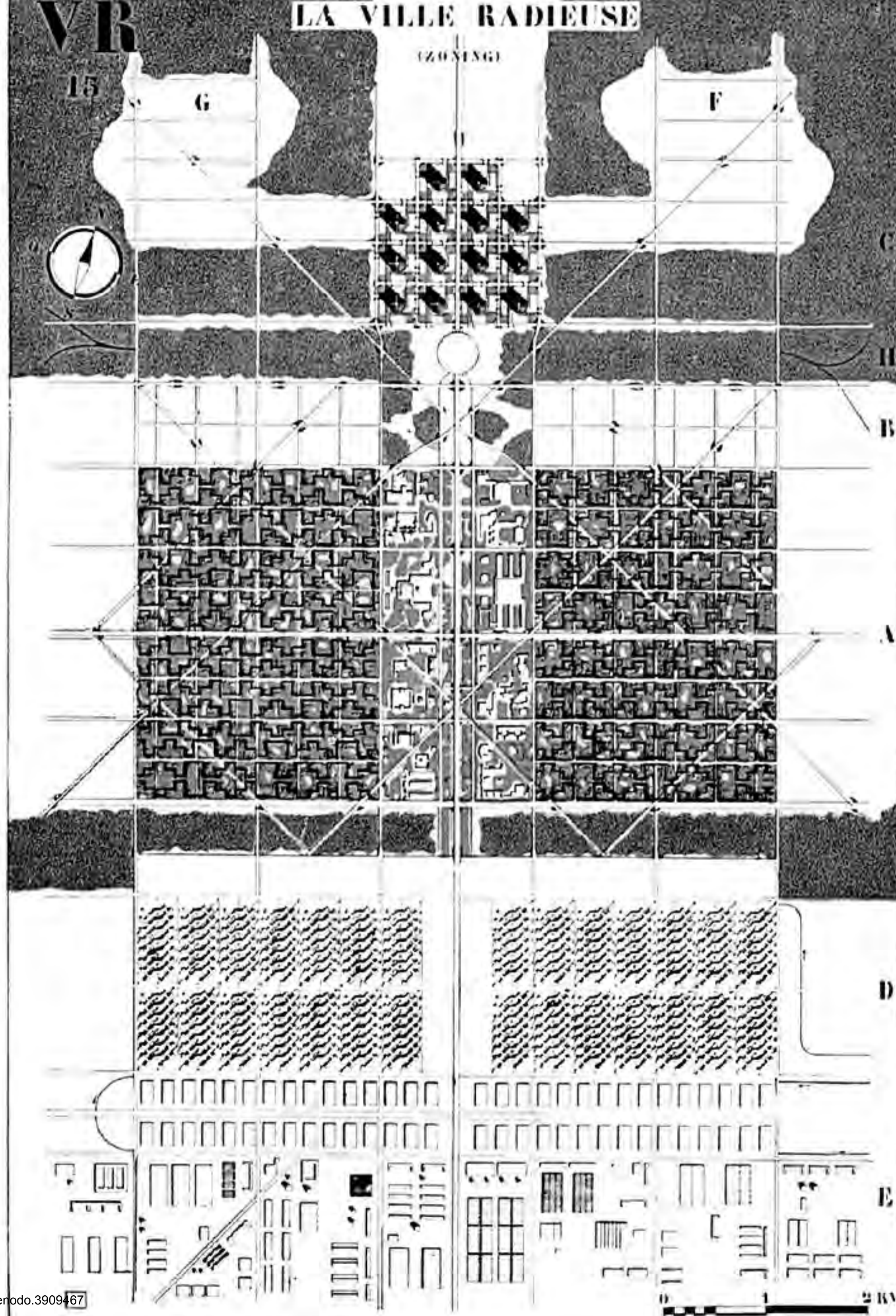


Mobility

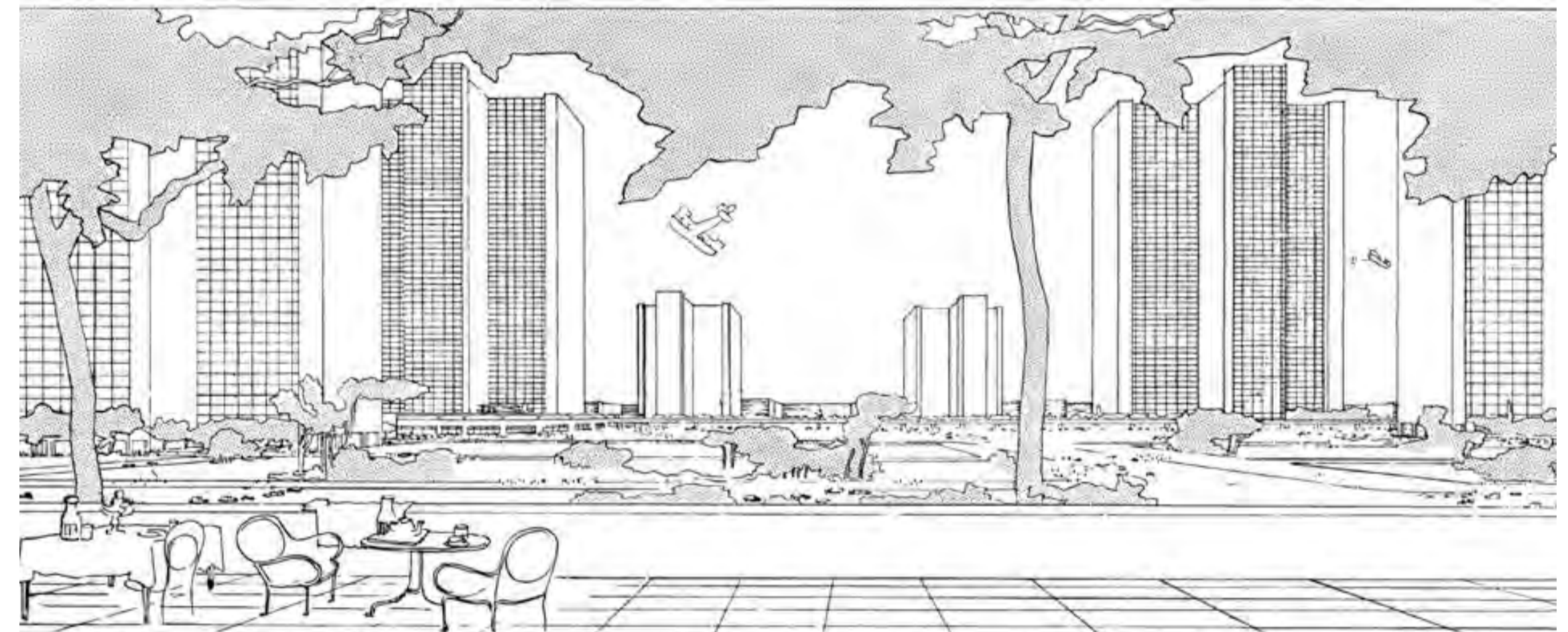
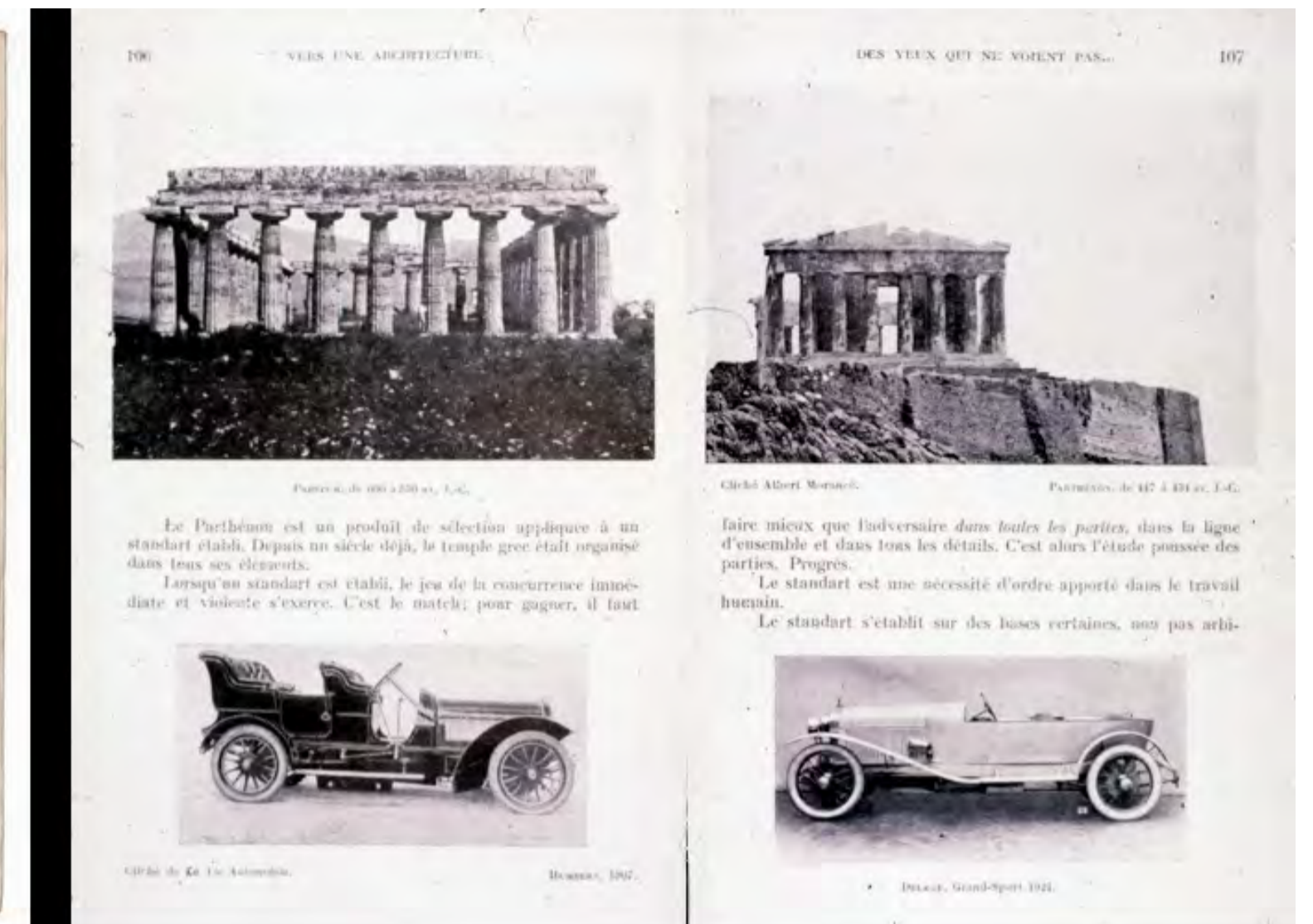
Values & Spatial Design



"Happy Island" – Superstudio, 1971



Vers une architecture — Le Corbusier, 1923



Ville à trois millions d'habitants — Le Corbusier, 1922

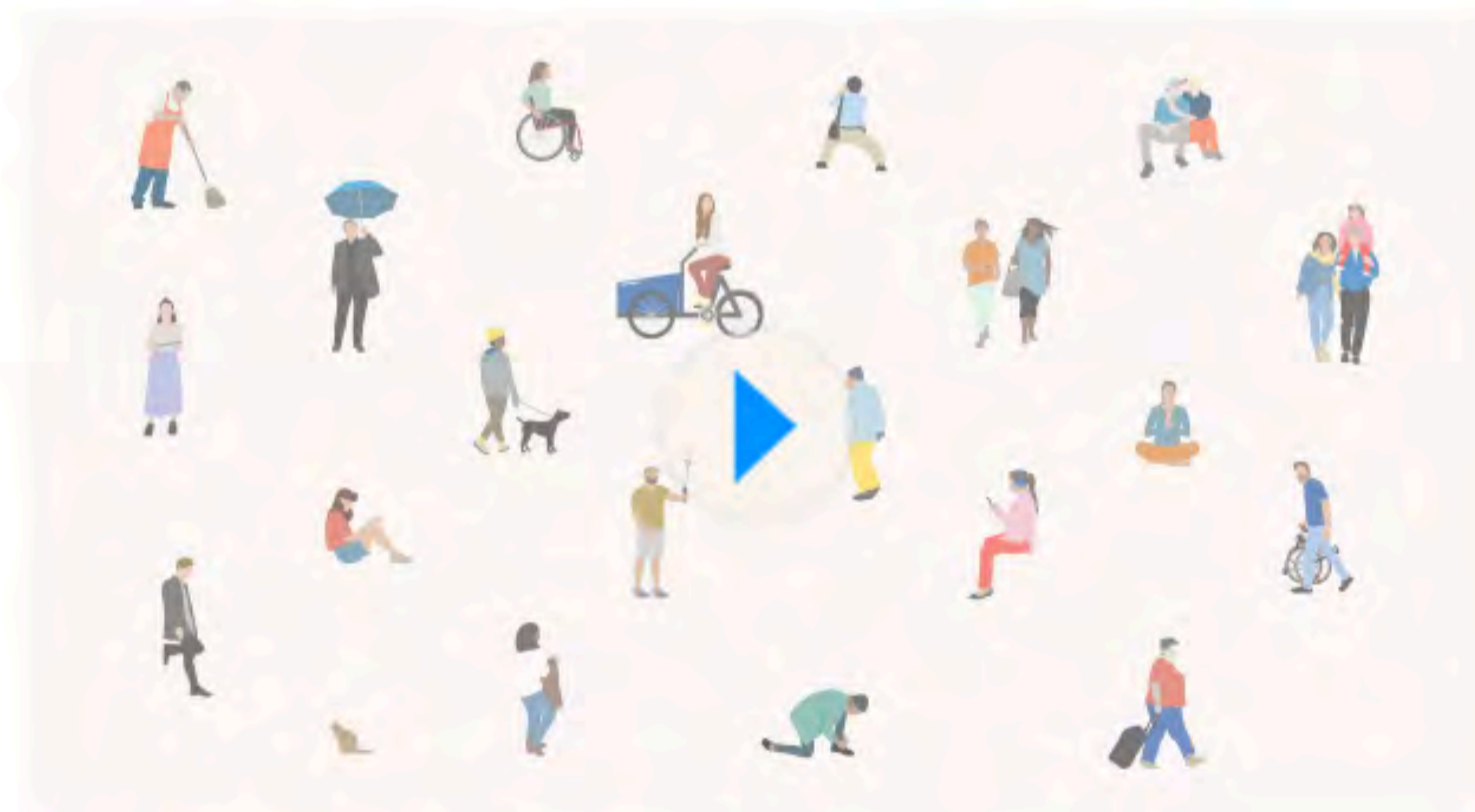
La Ville Radieuse — Le Corbusier, 1922



Health & Well-being

Expanding our scope of work

Gehl is committed to making cities, neighbourhoods and places where people have control over their health and wellbeing, and are enabled to take meaningful, climate conscious decisions within their daily lives.



Our services span across all scales, from strategic visions, to design.

Learn more about our services [here](#)

3 Soft City principles - [click and learn more](#)

GEHL LIVE

- BLOG
- PROJECTS
- NEWS
- TALKS
- TOOLS
- BOOKSHELF
- CONTACT GUIDE

THE JUST CITY ESSAYS

26 Visions for Urban Equity, Inclusion and Opportunity



VOLUME ONE

EDITED BY TONIL GRIFFIN | ARIELLA COHEN | DAVID MADDOX

The Just City Essays — T. Griffin, A. Cohen & D. Maddox (Eds)

11 SUSTAINABLE CITIES AND COMMUNITIES



**How do your values
influence your design?**

**How does your design
change people's values?**

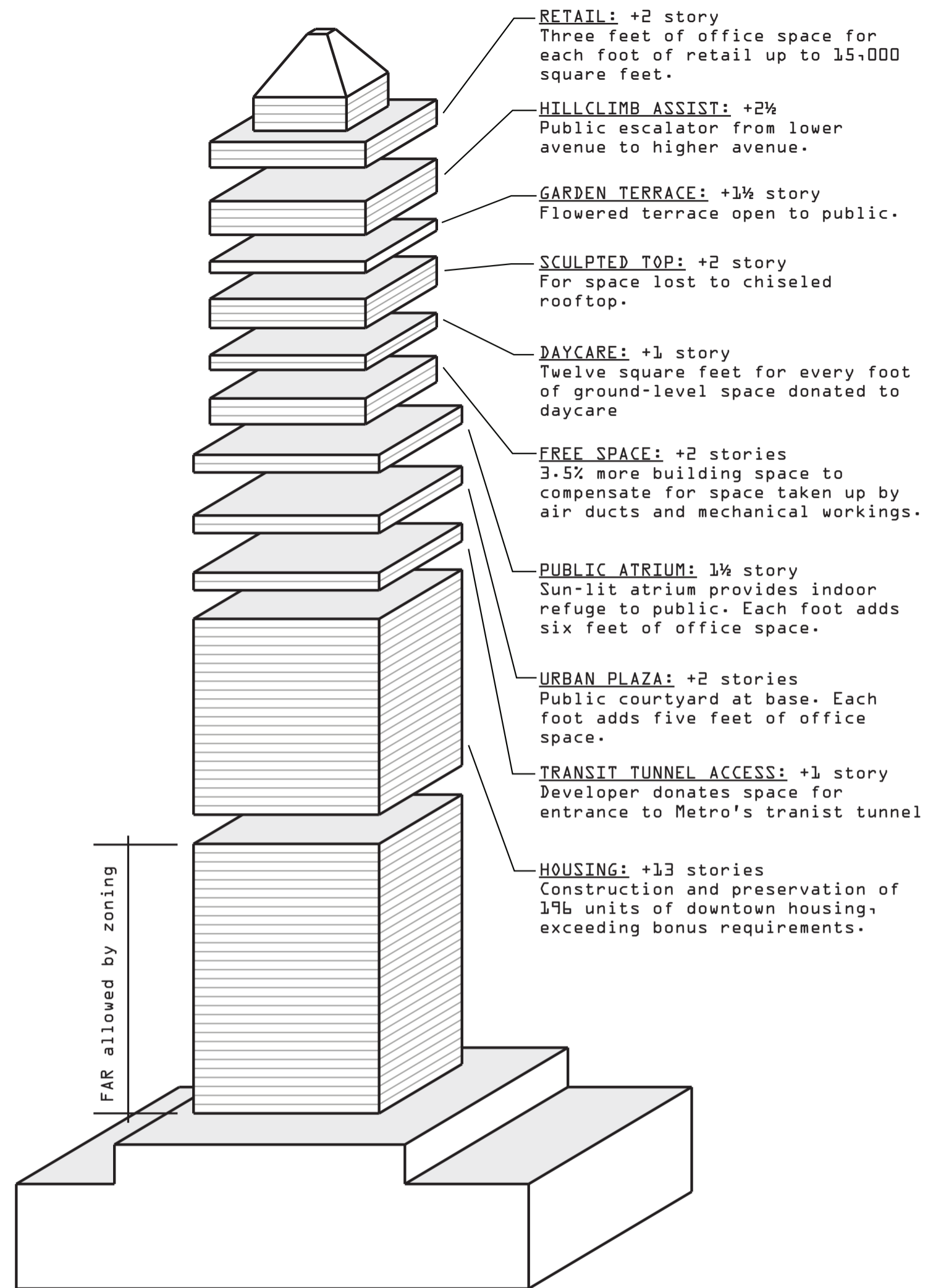
Values & Urban Space



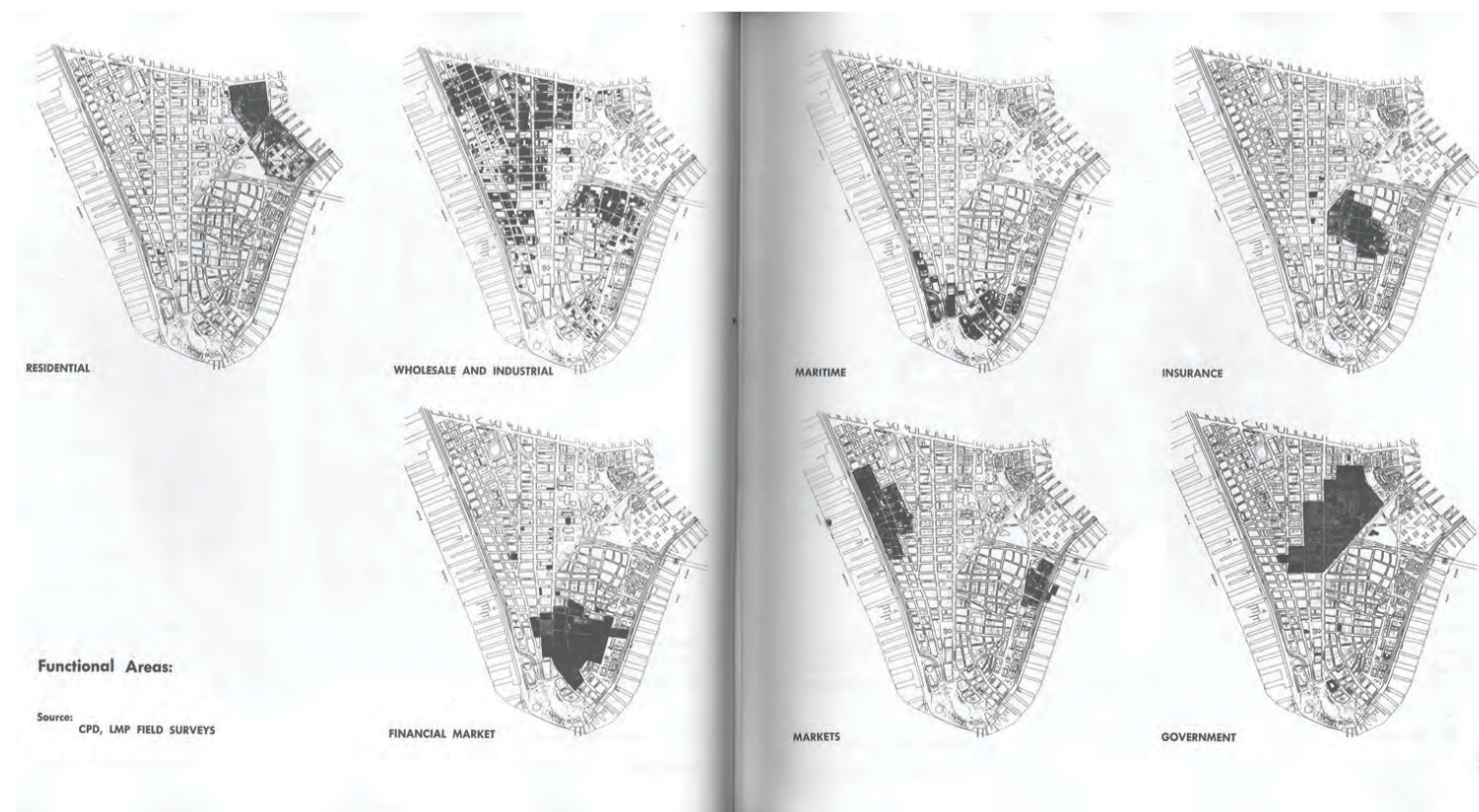
Young women in Geneva (left) and Singapore (above)



New York Stock Exchange on Wallstreet — J. Geerds, 2008



Development right bonuses in New York City — Garvin, 1995



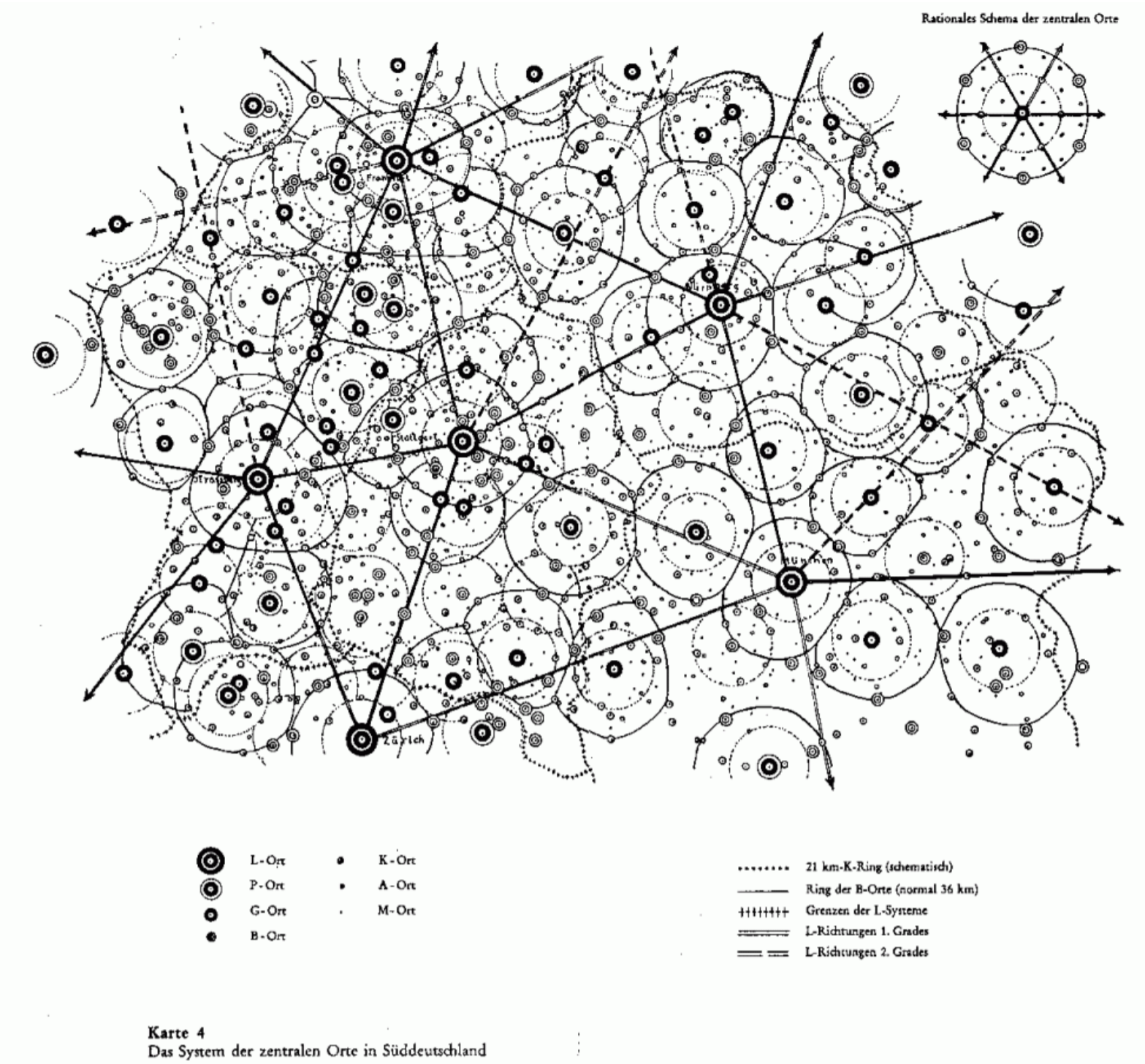
Historical business clusters in Lower Manhattan — NYC Planning Commission, 1966



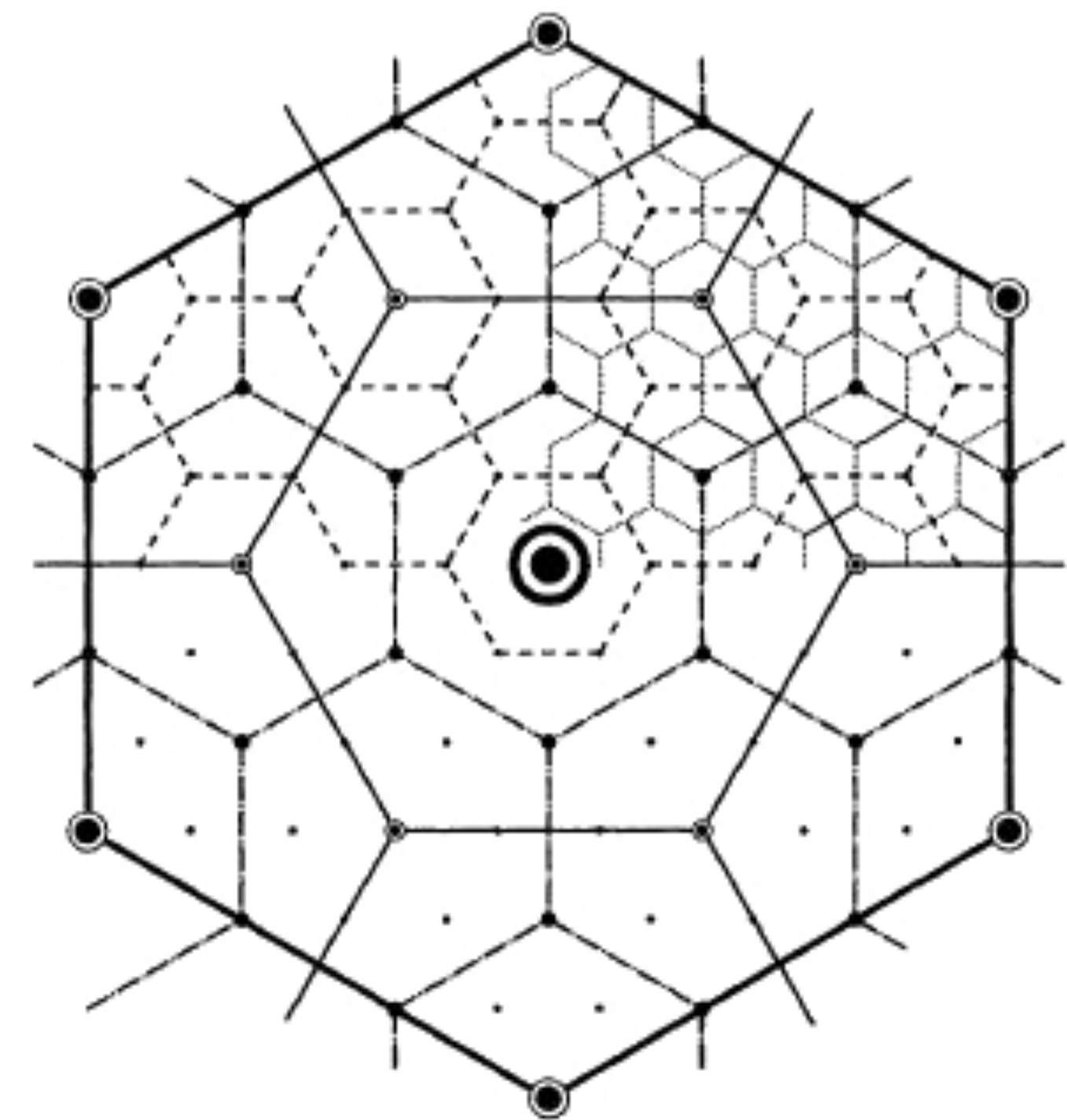
Real Estate Value on Manhattan Rankin, 2007



Jusi, Kohlberg, Germany — B. Pudill



The Systems of the Central Places in Southern Germany — W. Christaller, 1933



Central Place Theory — W. Christaller, 1933



10.5281/zenodo.3909467 The Vessel, New York — © Four Four



Prada Store, Marfa (TX) — T. Trad



Zermatt, Switzerland — M. Thompson



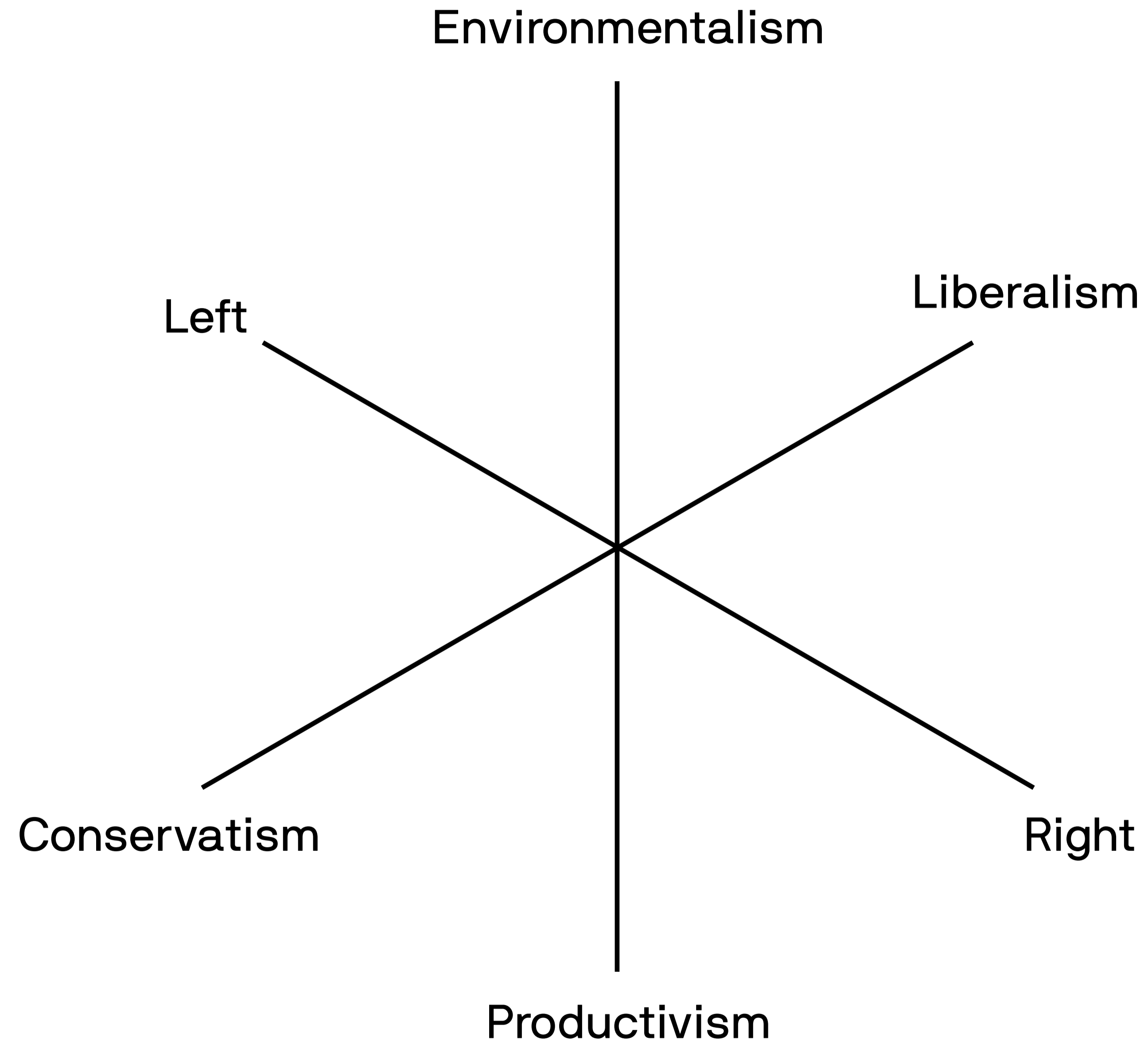
Advertisement for Appenzeller Cheese — Appenzeller SA



Zurich, Switzerland — C. Schwartz



Village, Switzerland — T. T. M. Tran



Three political axes

**How do political values evolve
through time and space?**

US Presidential Election 2016

Results mapped at county level showing the candidate with the largest vote share in each area

Overall result:

Trump

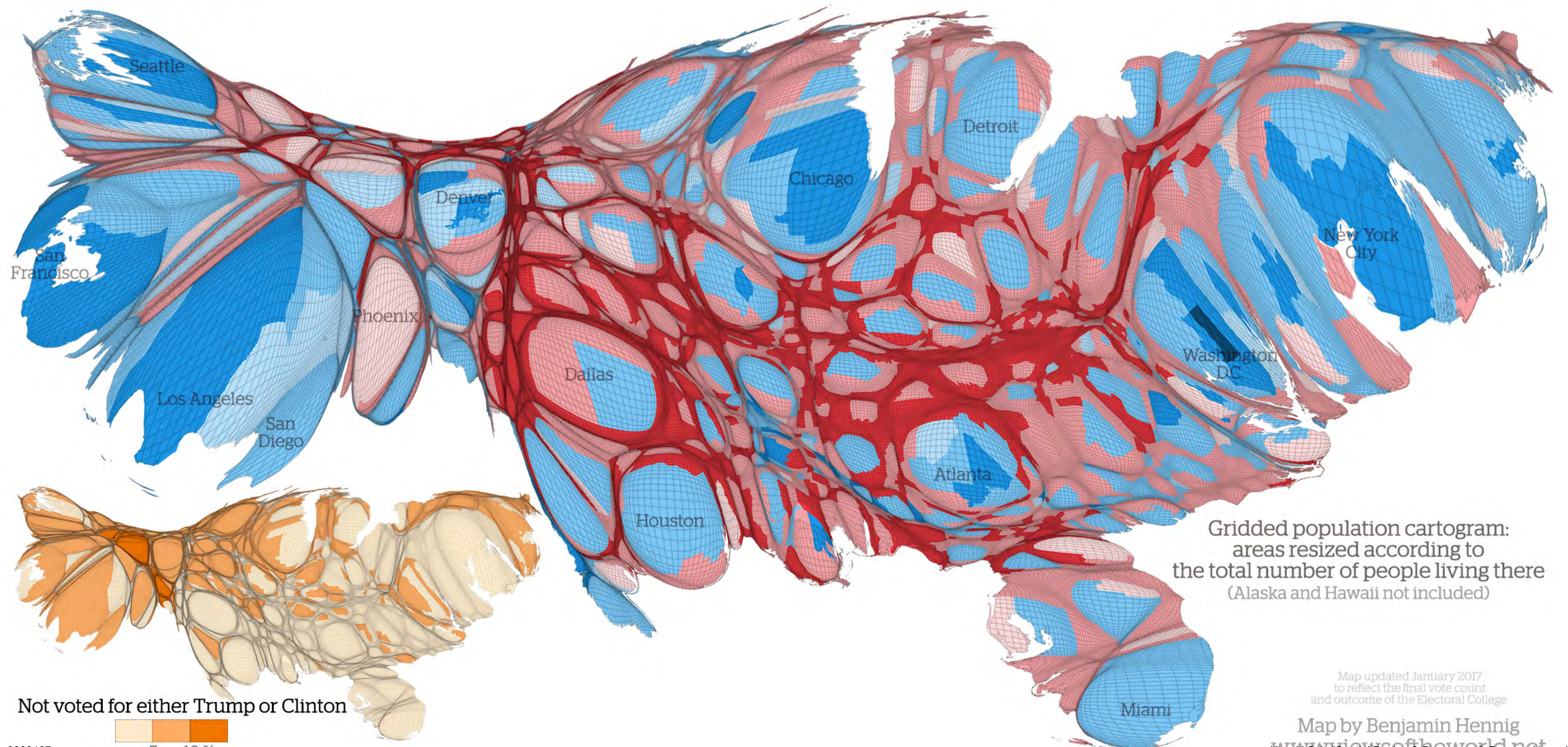
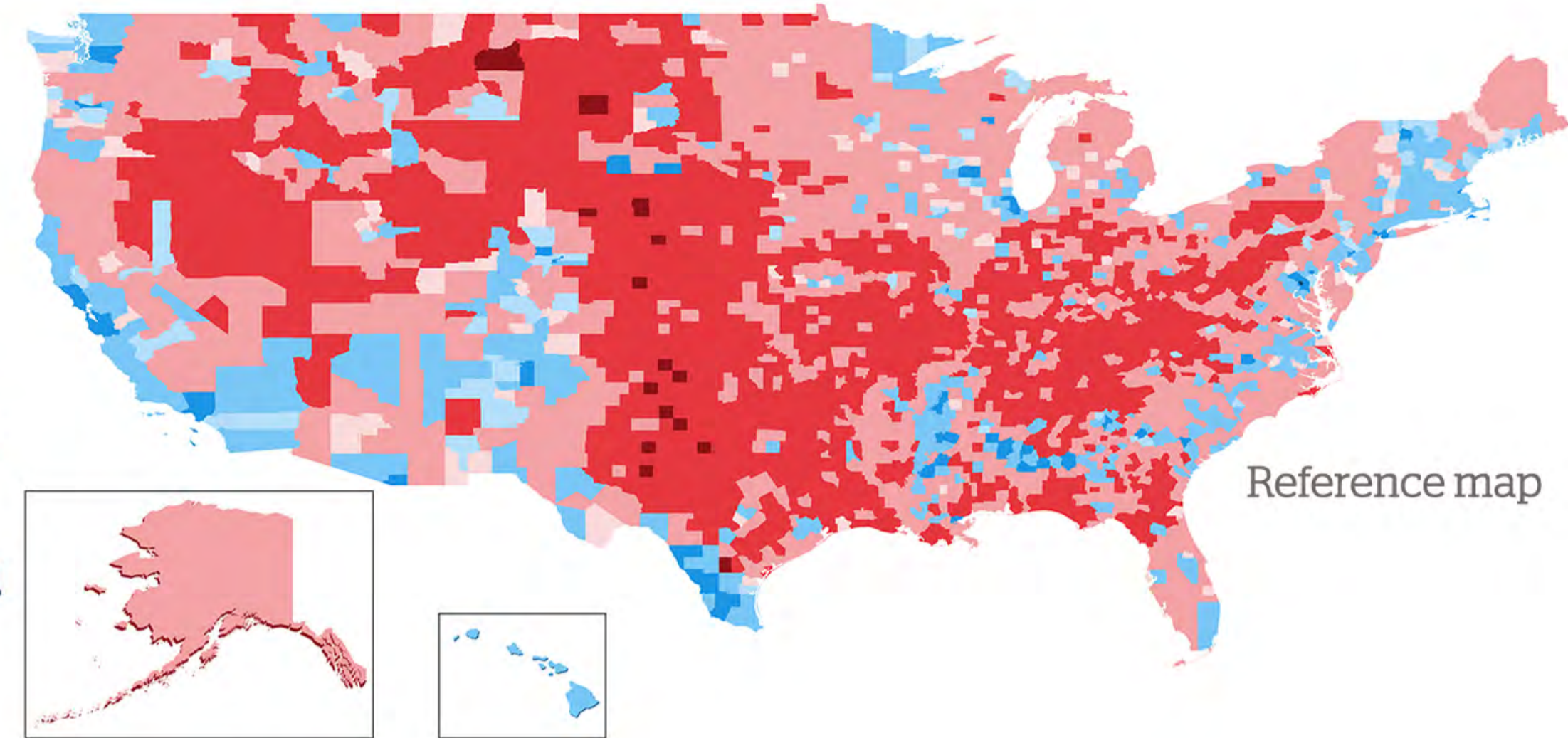
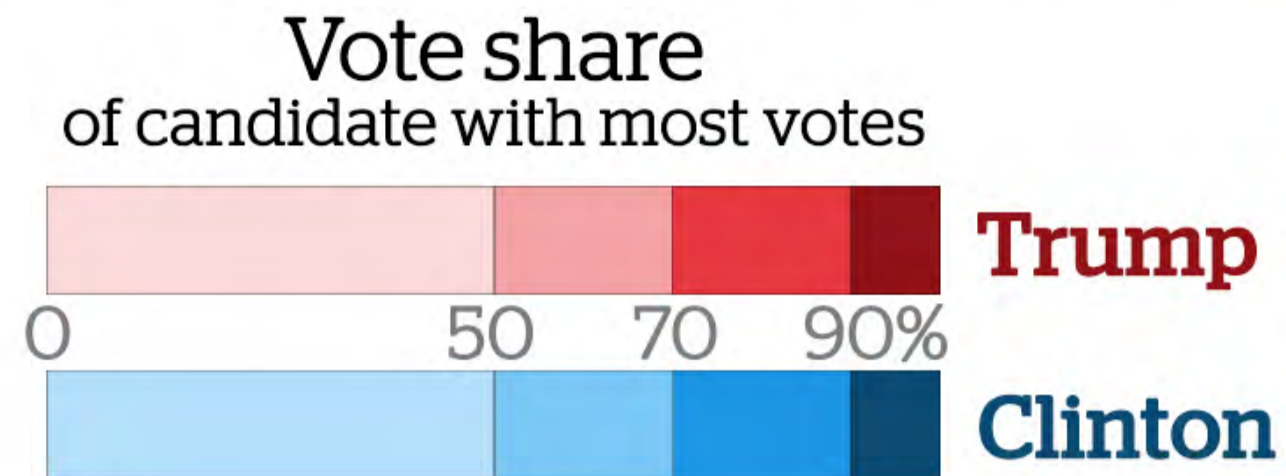
62,979,636 votes (46.1%)
306 electoral votes
(received 304 in the Electoral College)

Clinton

65,844,610 votes (48.2%)
232 electoral votes
(received 227 in the Electoral College)

Other candidates

7,804,213 votes (5.7%)

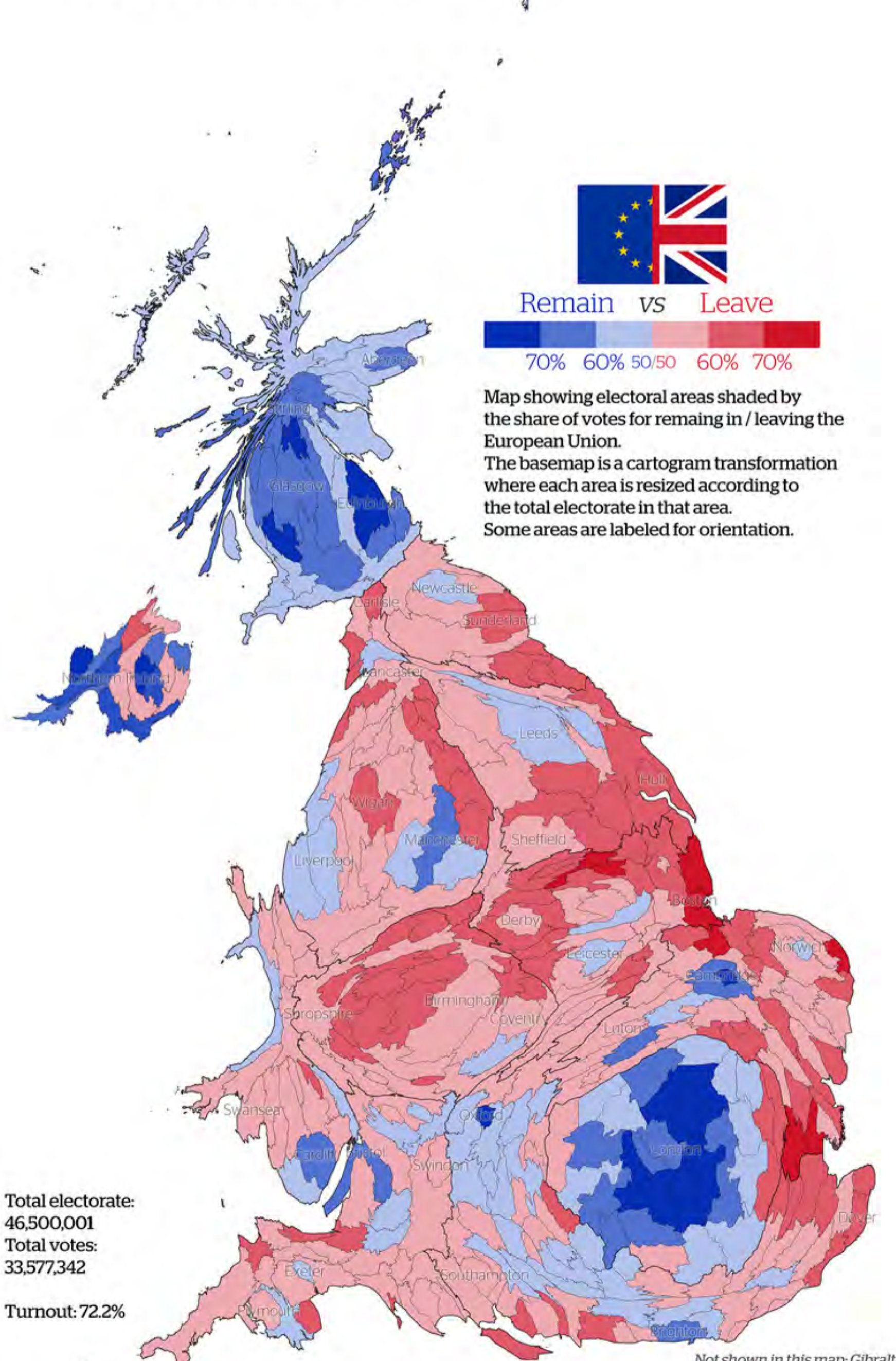


Map updated January 2017 to reflect the final vote count and outcome of the Electoral College

Map by Benjamin Hennig
www.viewsoftheworld.net

EU Referendum A Divided Kingdom

Map by Benjamin Hennig
www.viewsoftheworld.net



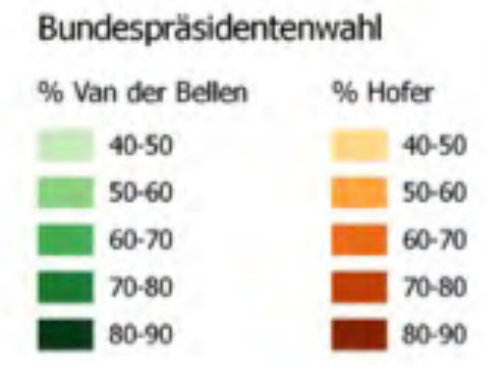
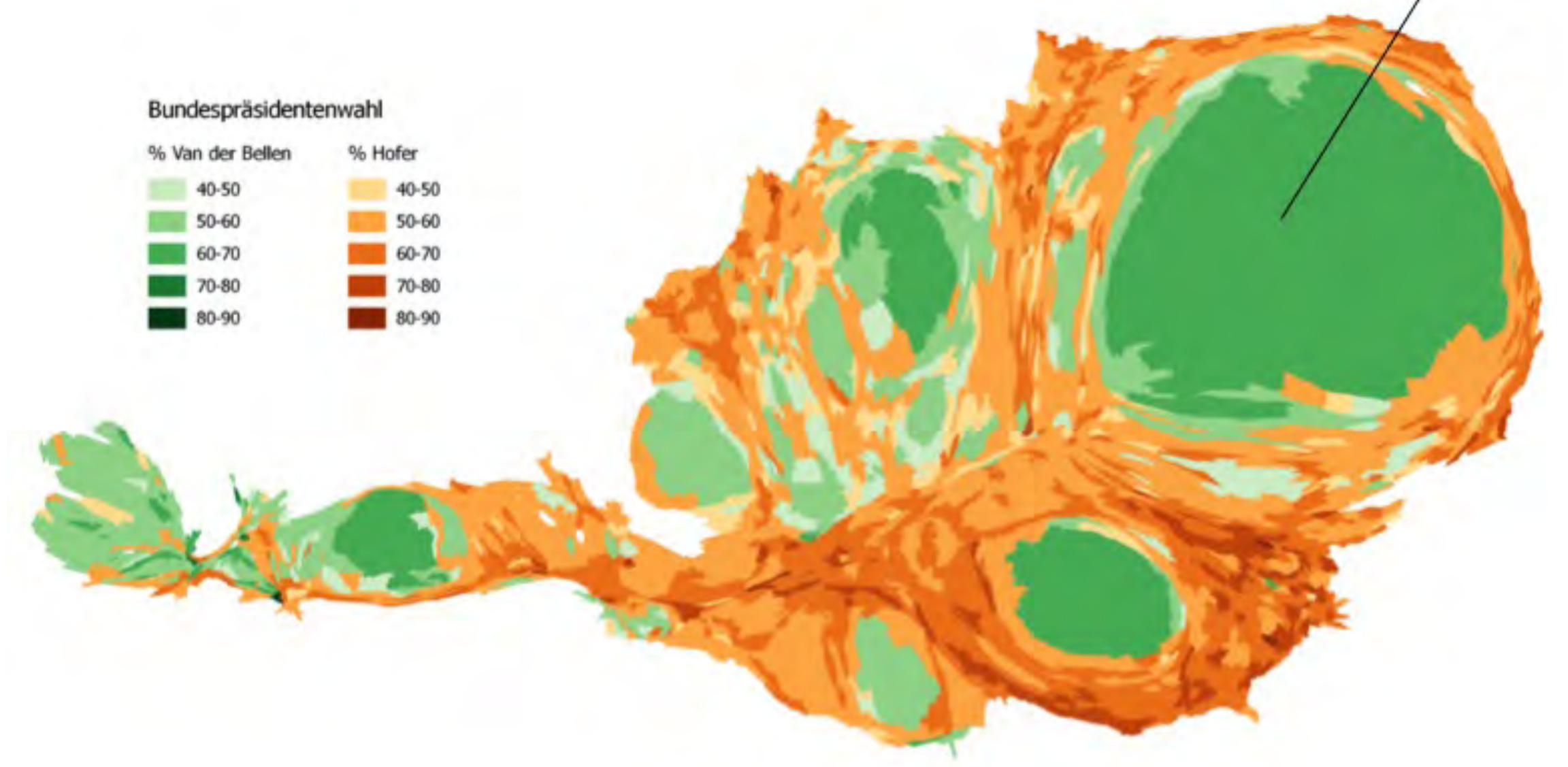
Map showing electoral areas shaded by the share of votes for remaining in / leaving the European Union. The basemap is a cartogram transformation where each area is resized according to the total electorate in that area. Some areas are labeled for orientation.

Total electorate:
46,500,001
Total votes:
33,577,342
Turnout: 72.2%

Data Source: UK Electoral Commission (2016)

Not shown in this map: Gibraltar
Remain: 95.9%, Leave: 4.1%
Turnout: 83.6%

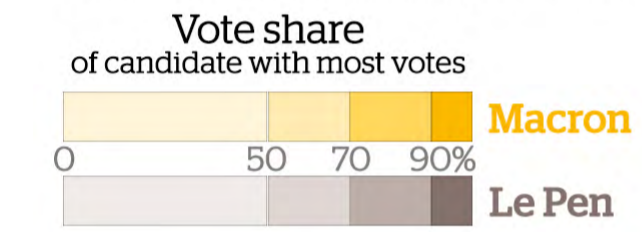
Wien : 786 776 Stimmen



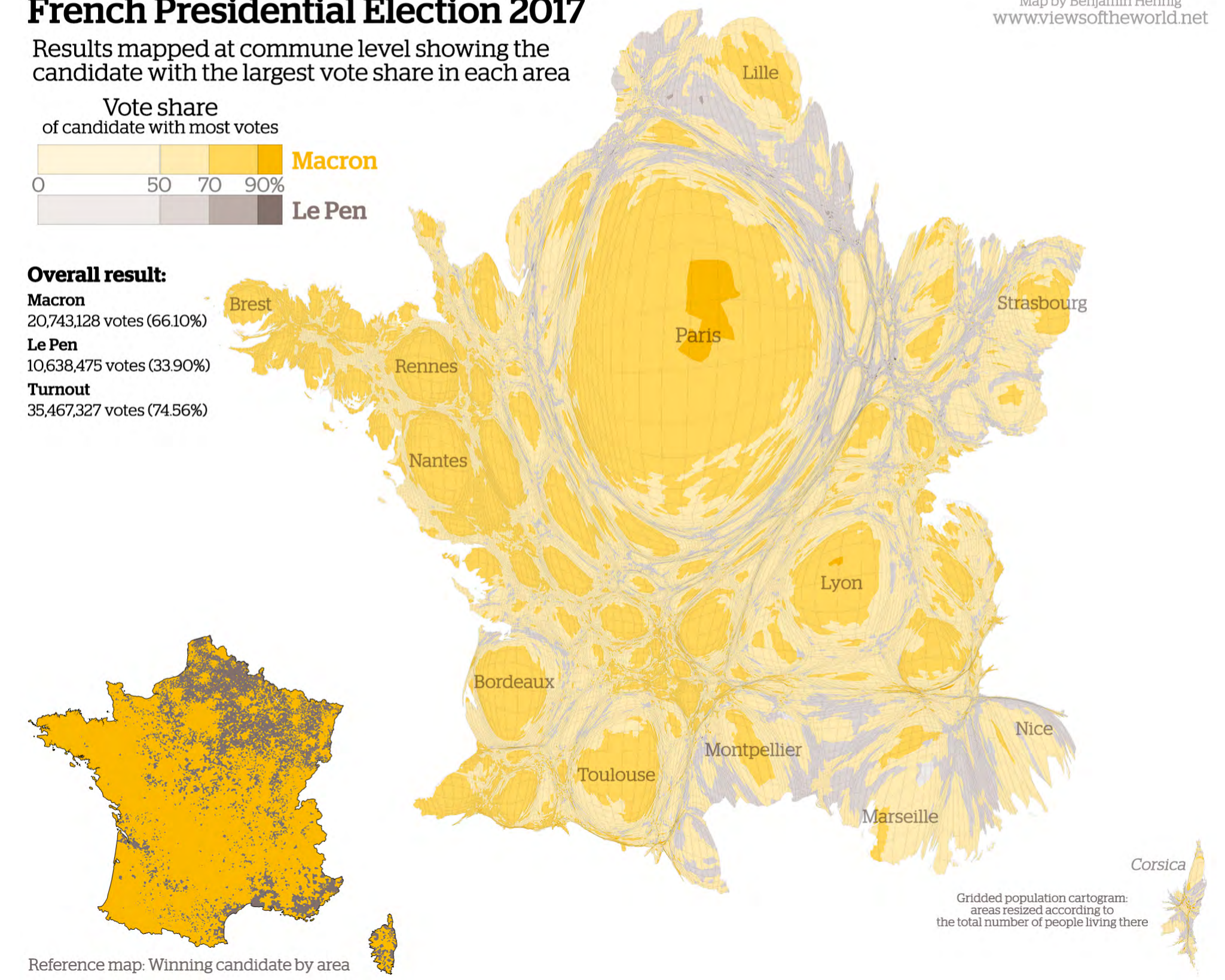
French Presidential Election 2017

Map by Benjamin Hennig
www.viewsoftheworld.net

Results mapped at commune level showing the candidate with the largest vote share in each area



Overall result:
Macron
20,743,128 votes (66.10%)
Le Pen
10,638,475 votes (33.90%)
Turnout
35,467,327 votes (74.56%)



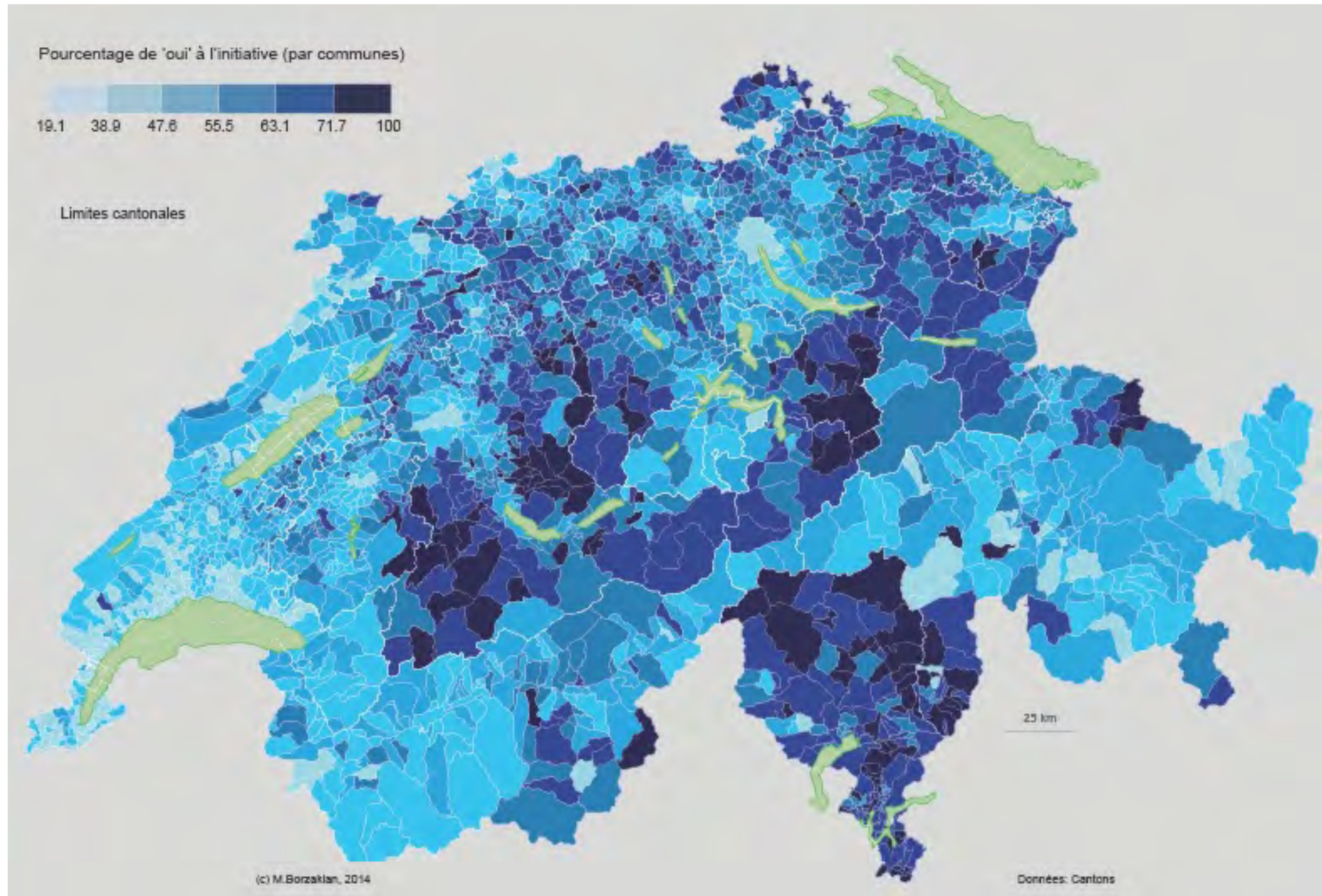
Gridded population cartogram: areas resized according to the total number of people living there

Reference map: Winning candidate by area

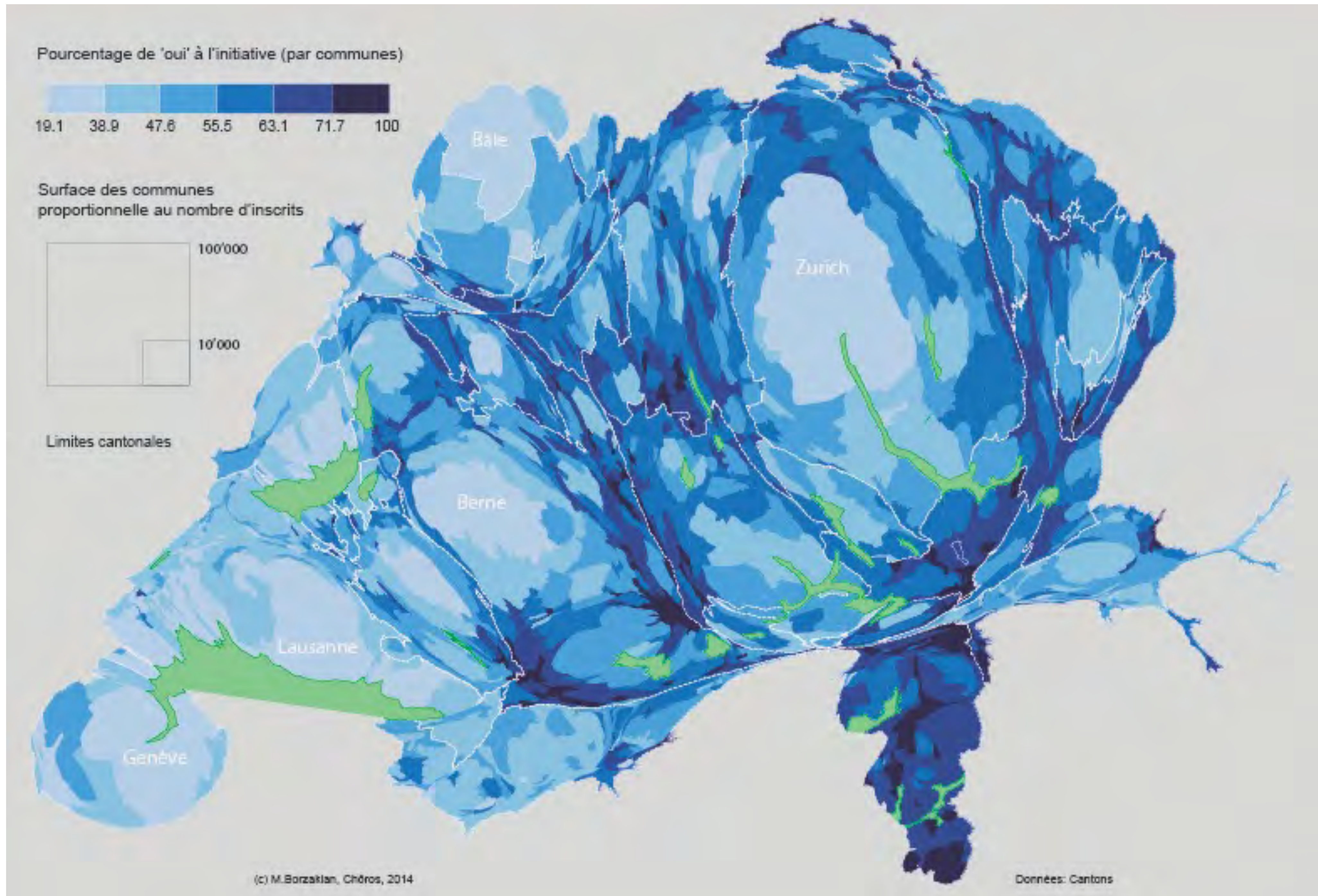




Advertisement for and against the 1994 vote on the Transalpine tunnel

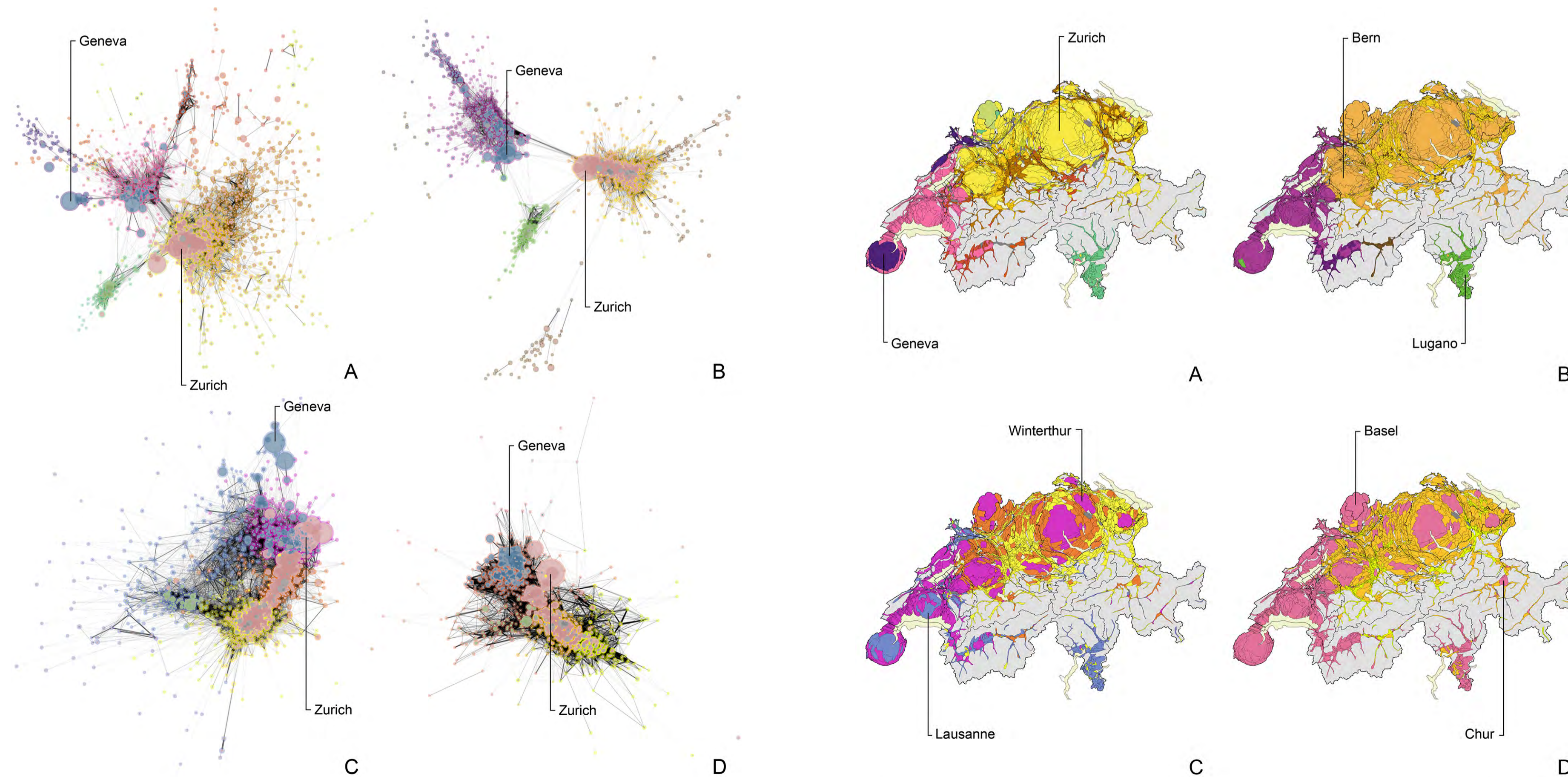


2014 Vote on "Against Mass Immigration", M. Borzakian



2014 Vote on "Against Mass Immigration", M. Borzakian

“The geographic evolution of political cleavages in Switzerland: A network approach to assessing levels and dynamics of polarization between local populations” in PLOS ONE (2018)

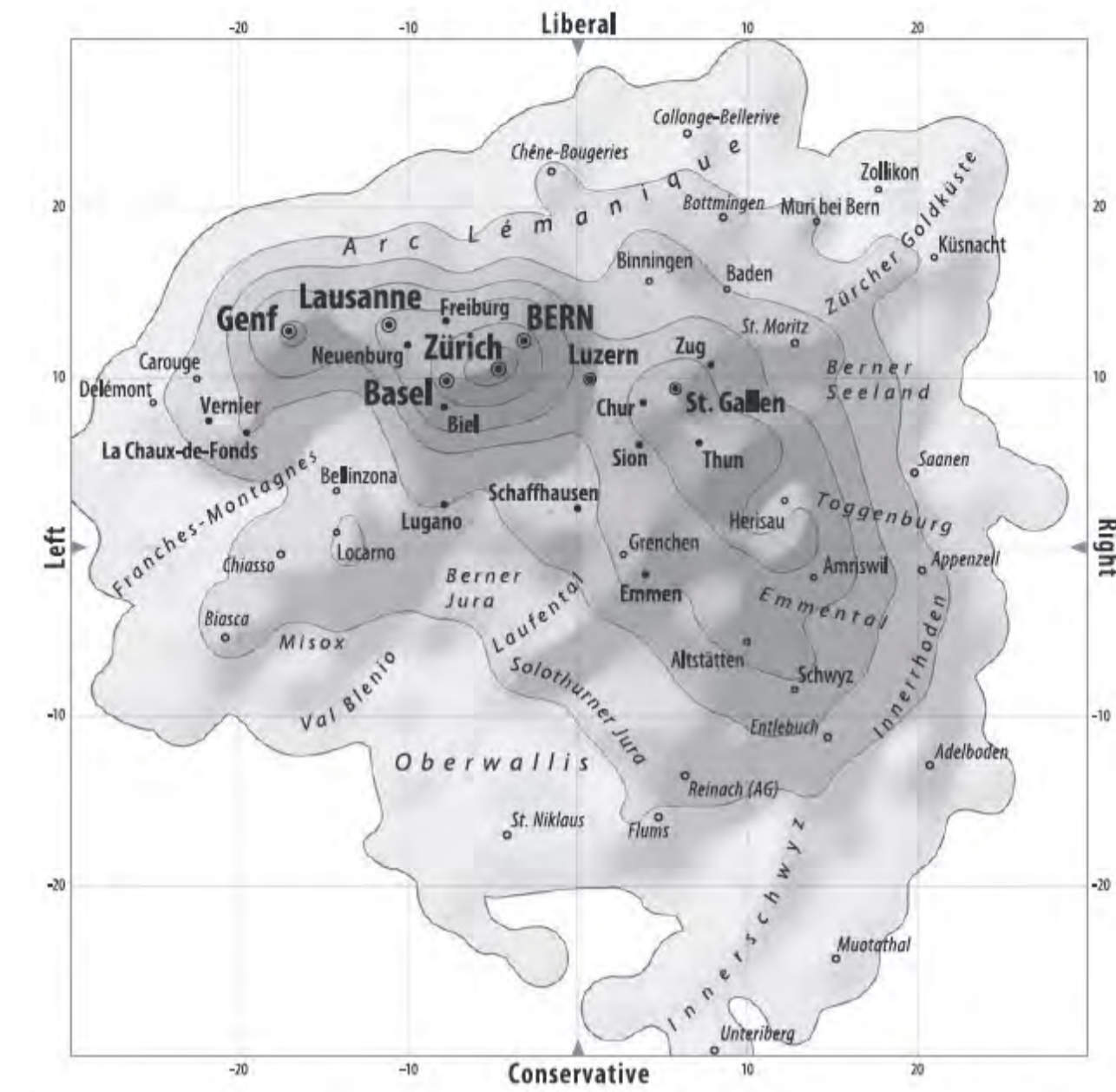


- 300 federal votes since 1981
- 3200 municipal populations
- All aspects of political life:
 - security, environment, health, economy, social equality, immigration, etc.

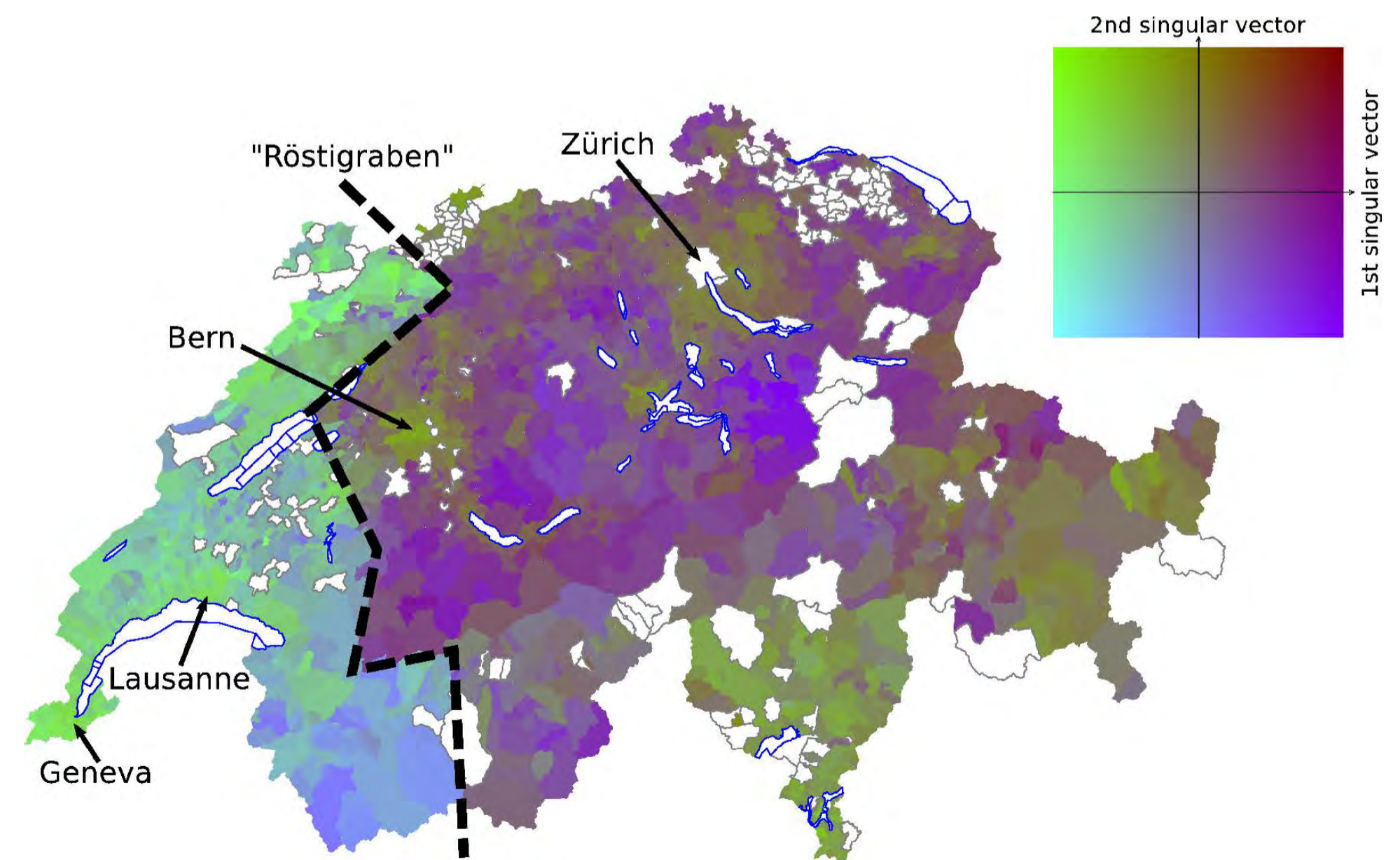
A New Analytical Method

Goals

- Dynamic analysis
- Robust measures
- Interoperable results / method



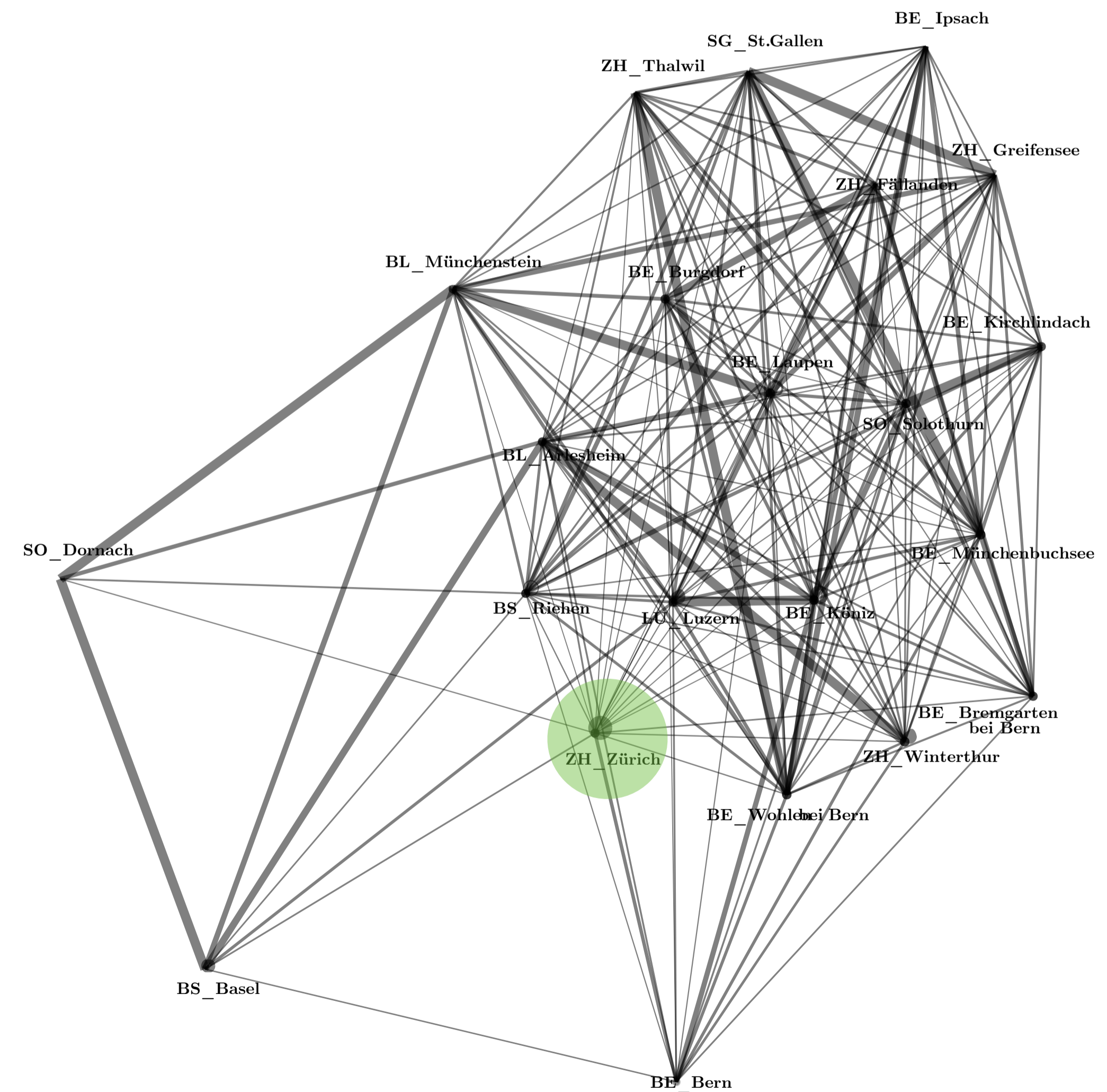
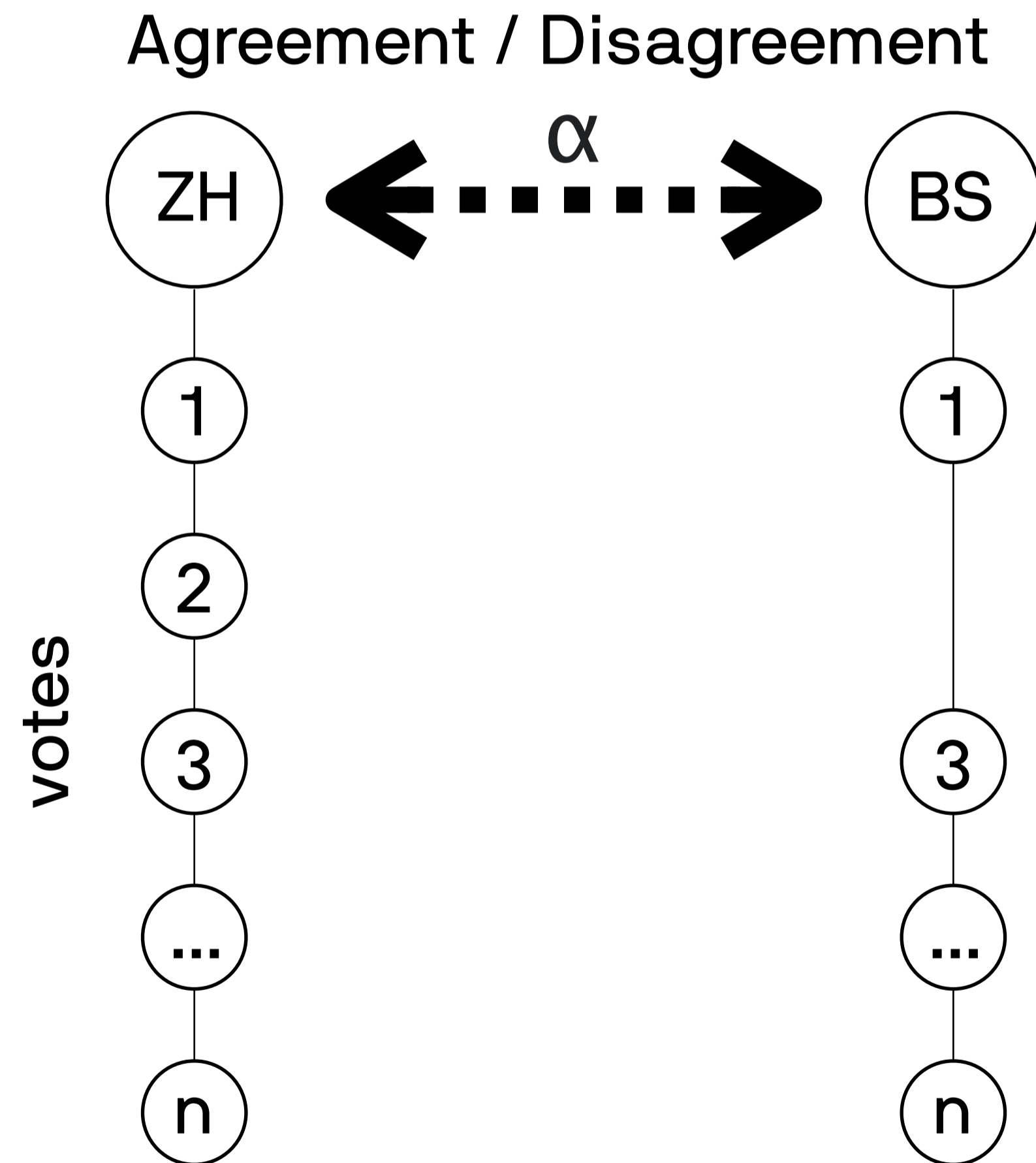
Swiss municipalities political landscape, Leuthold & Hermann, 2001



Multivariate analysis of vote results, Etter et al. 2014

Dyadic Agreement Modeling

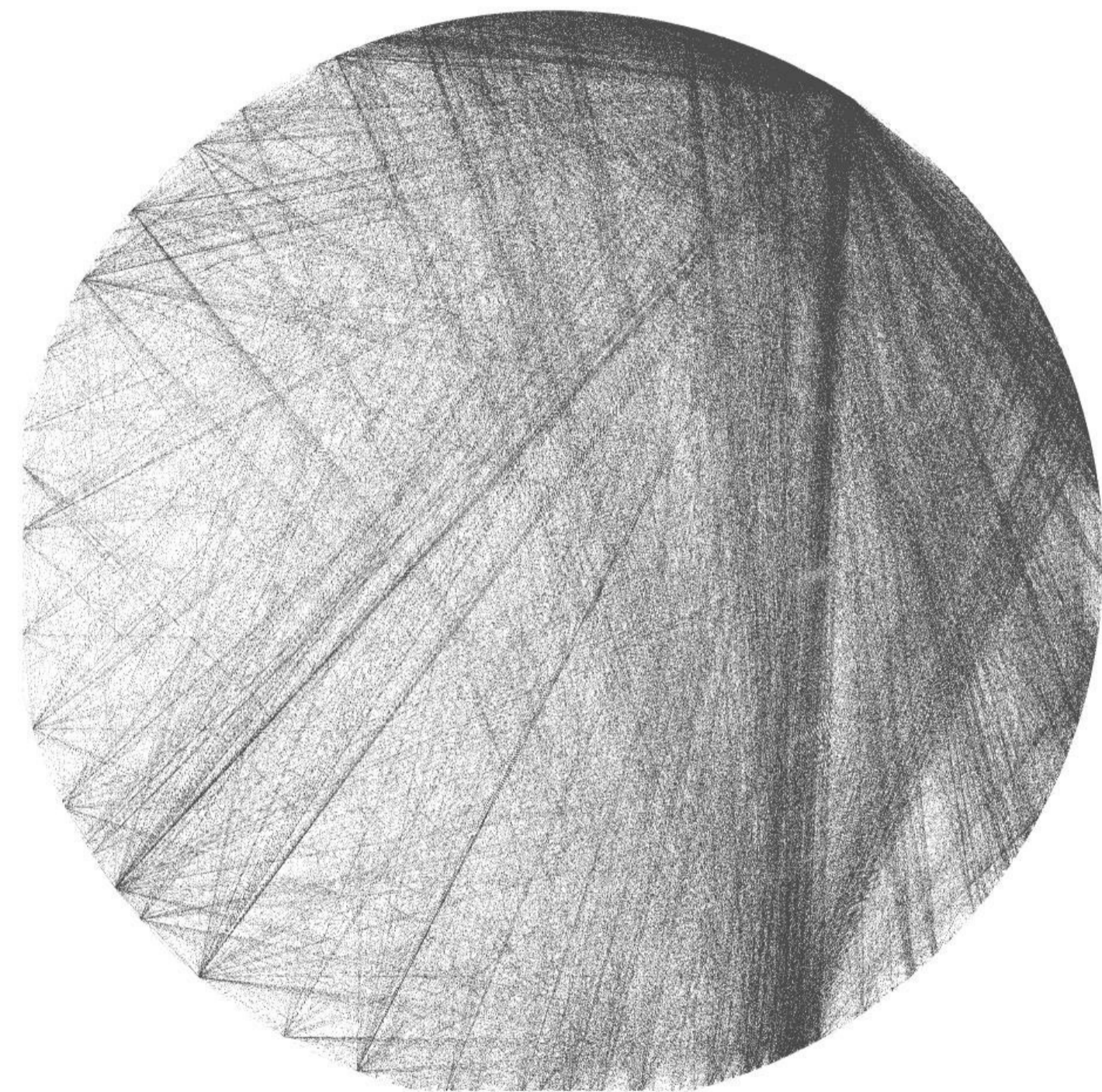
Principle



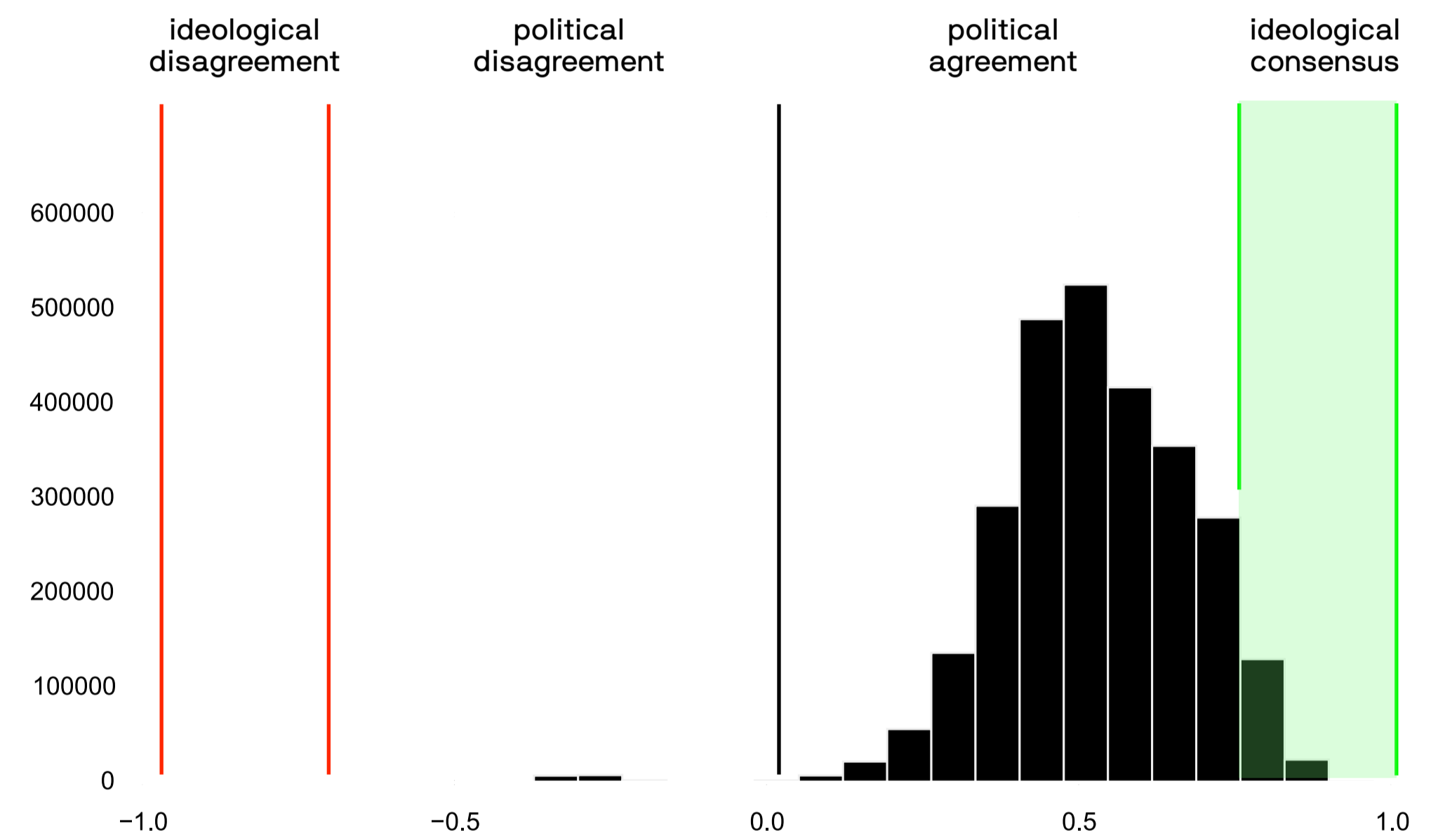
Dyadic Agreement Modeling

Advantages

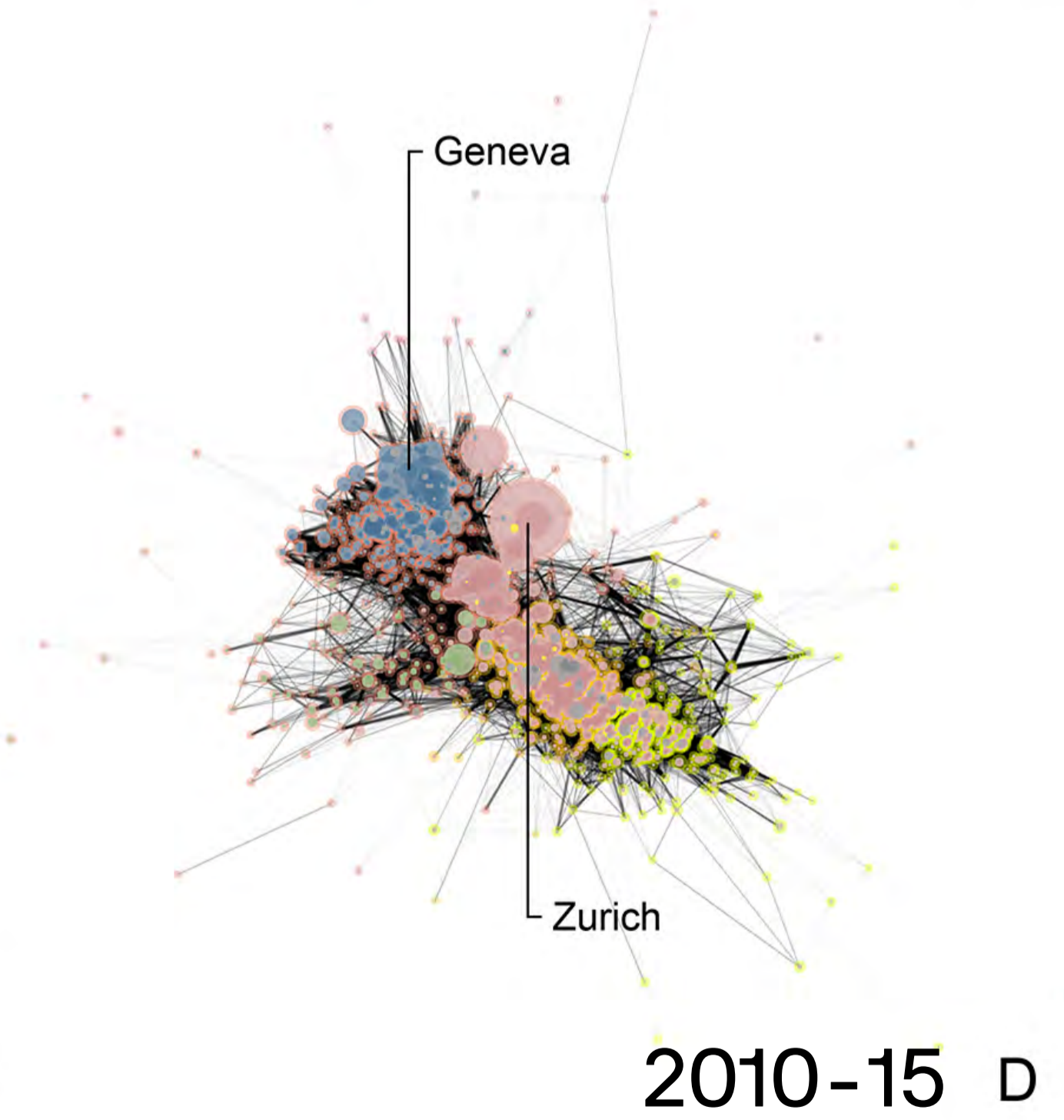
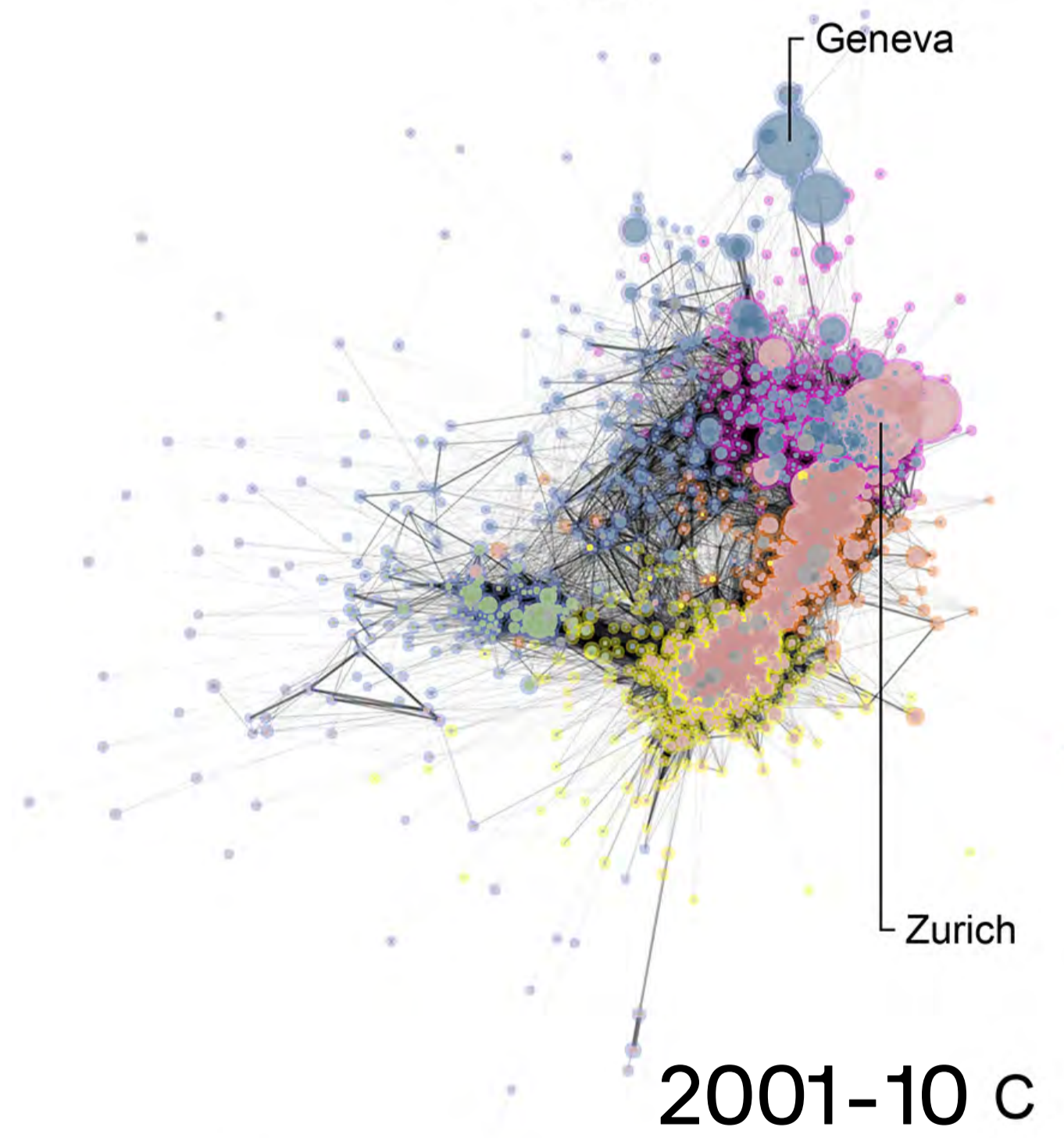
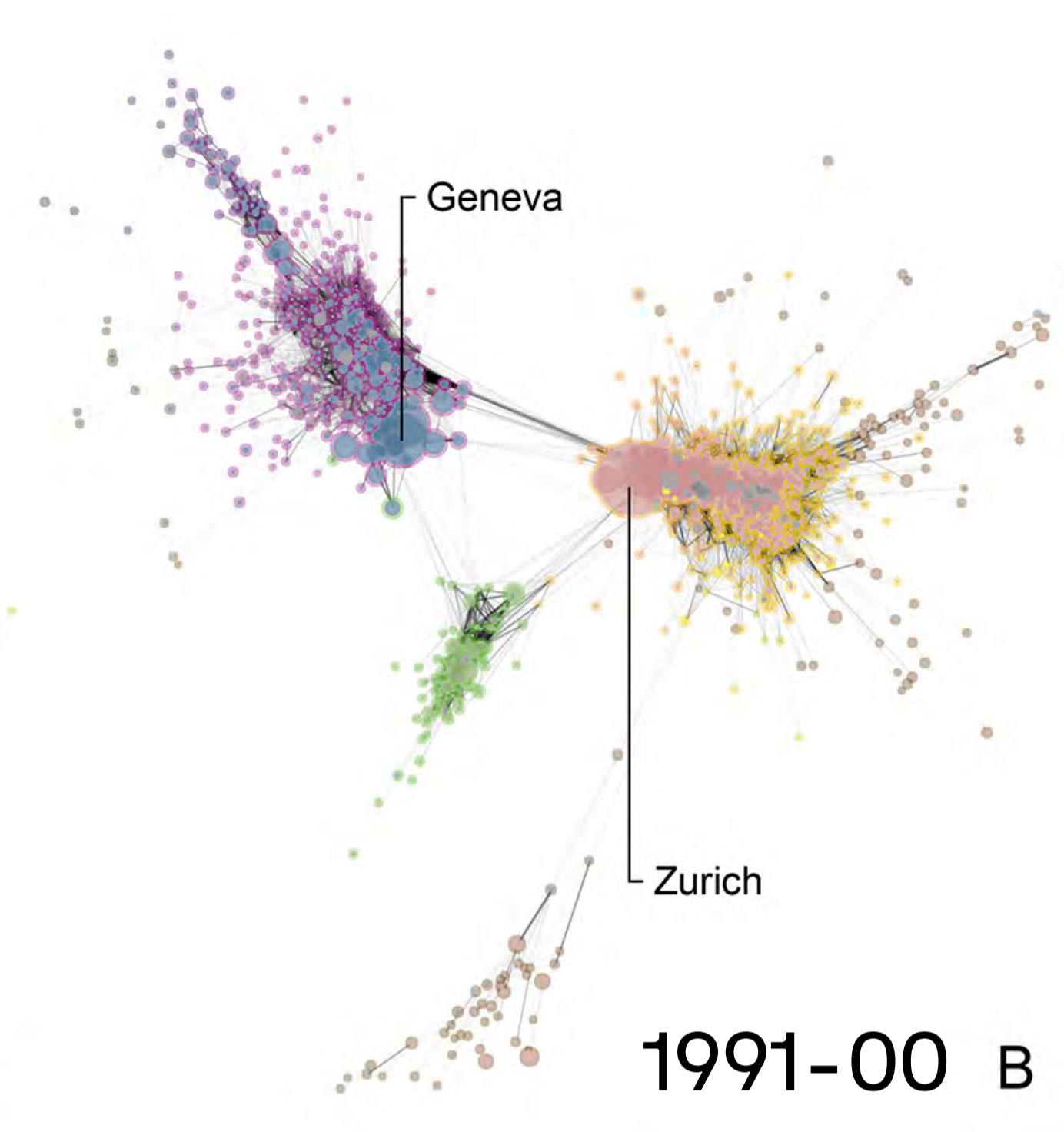
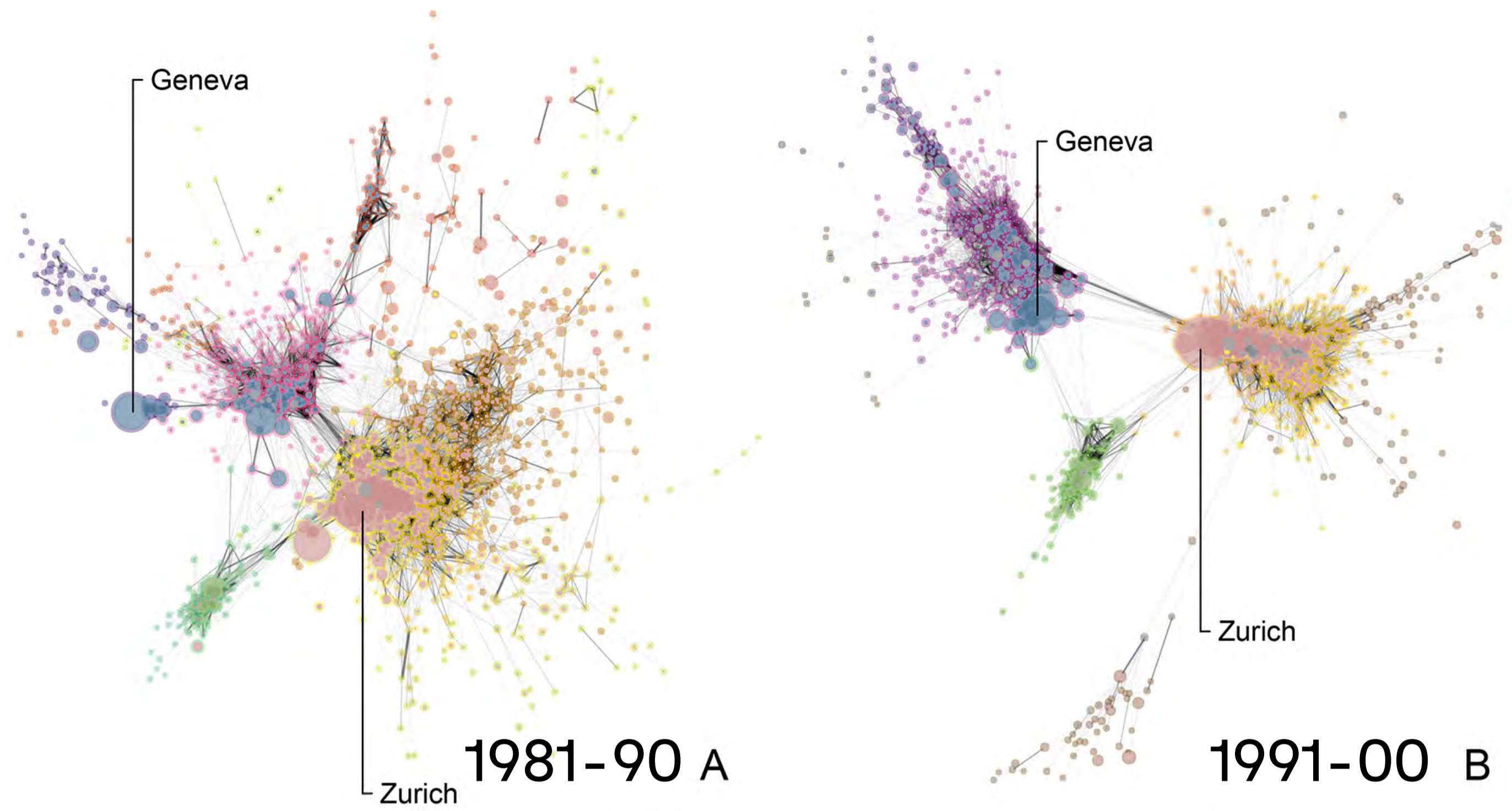
- Control for agreement by chance
- Expresses agreement AND disagreement
- Value space from -1 to 0 to 1
- Internal measure of reliance
- Accepts missing data
- Stable across number of observers and objects



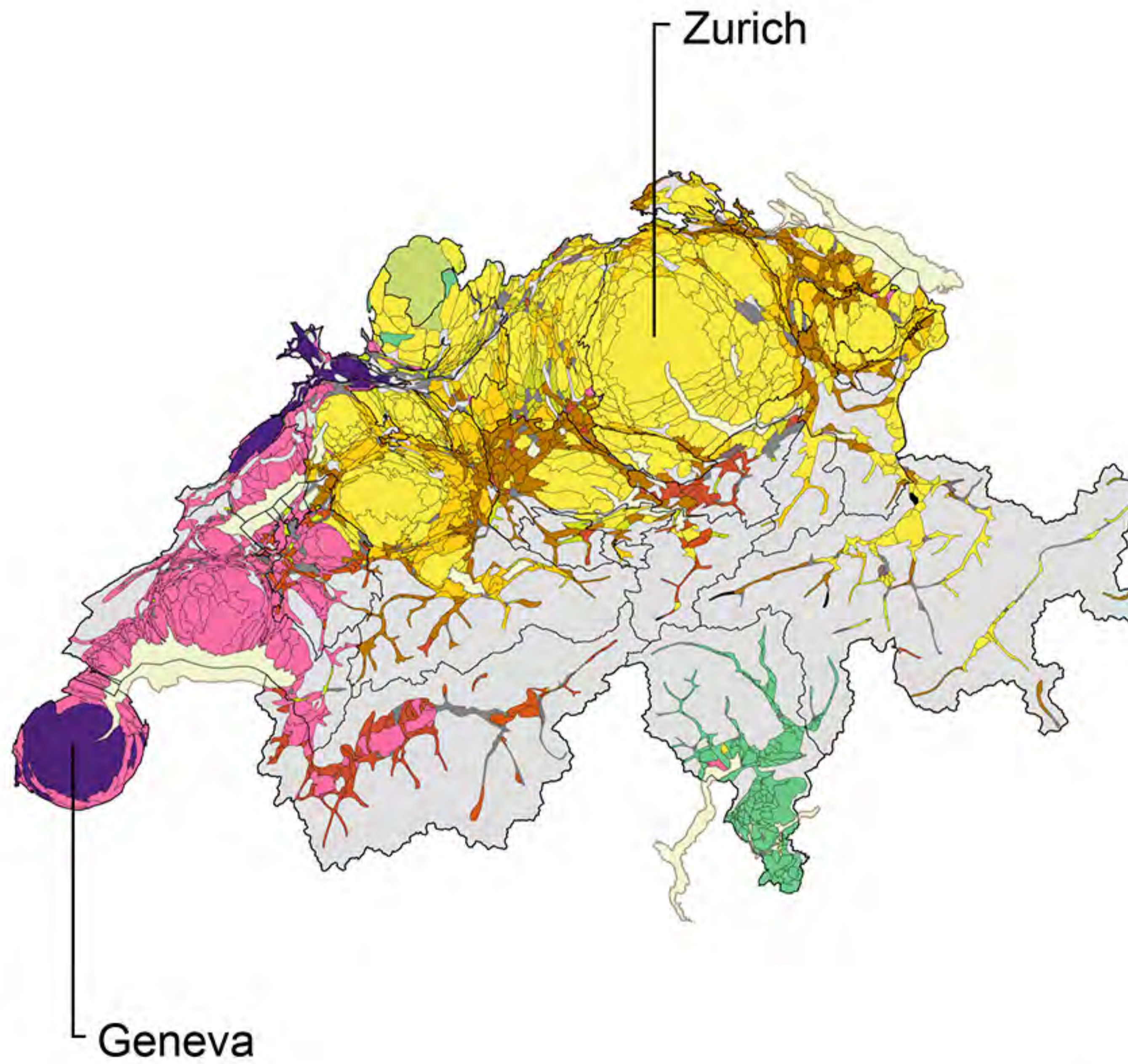
Full agreement model — S. Koseki, 2017



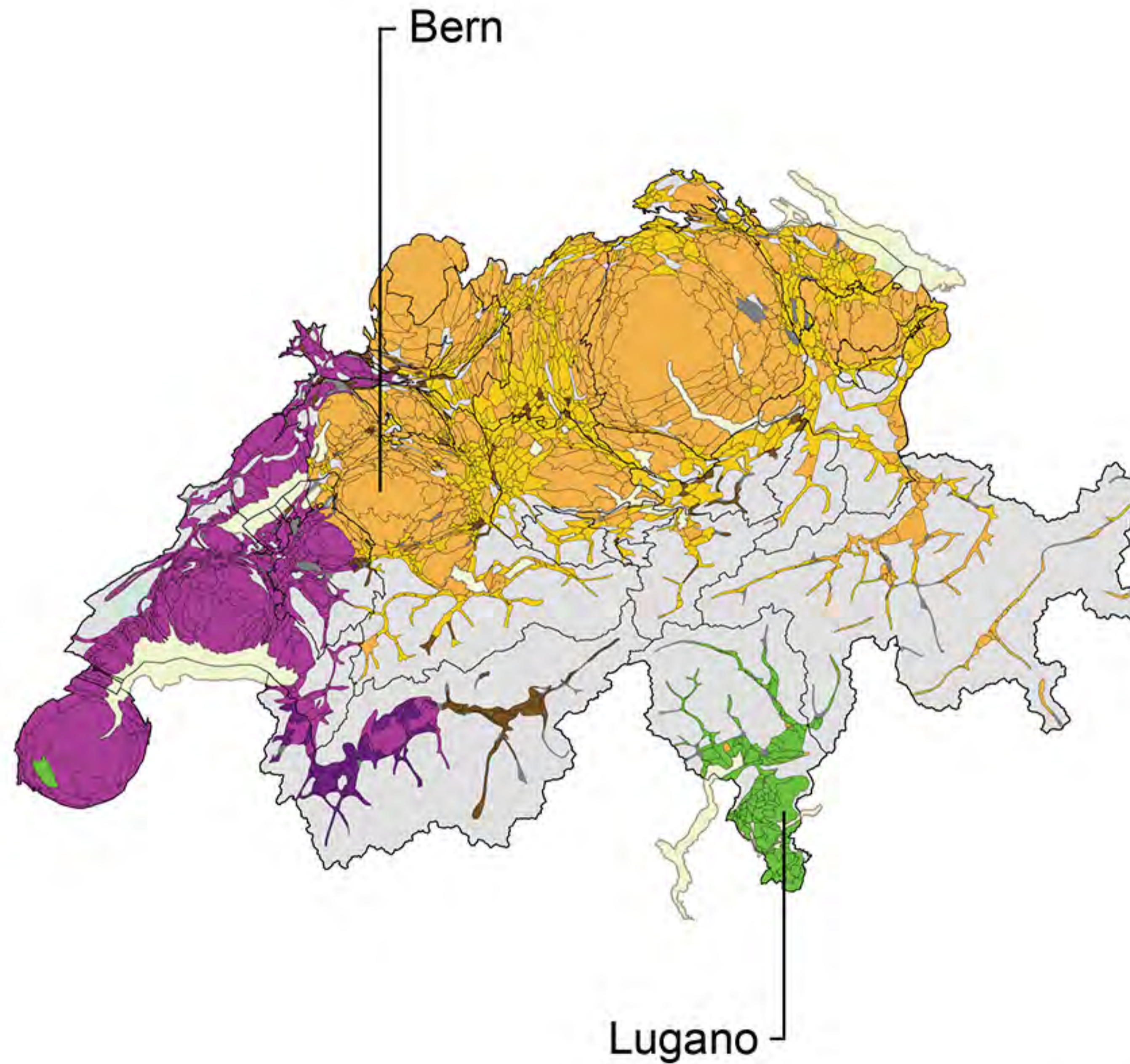
Agreement/disagreement scores — S. Koseki, 2017



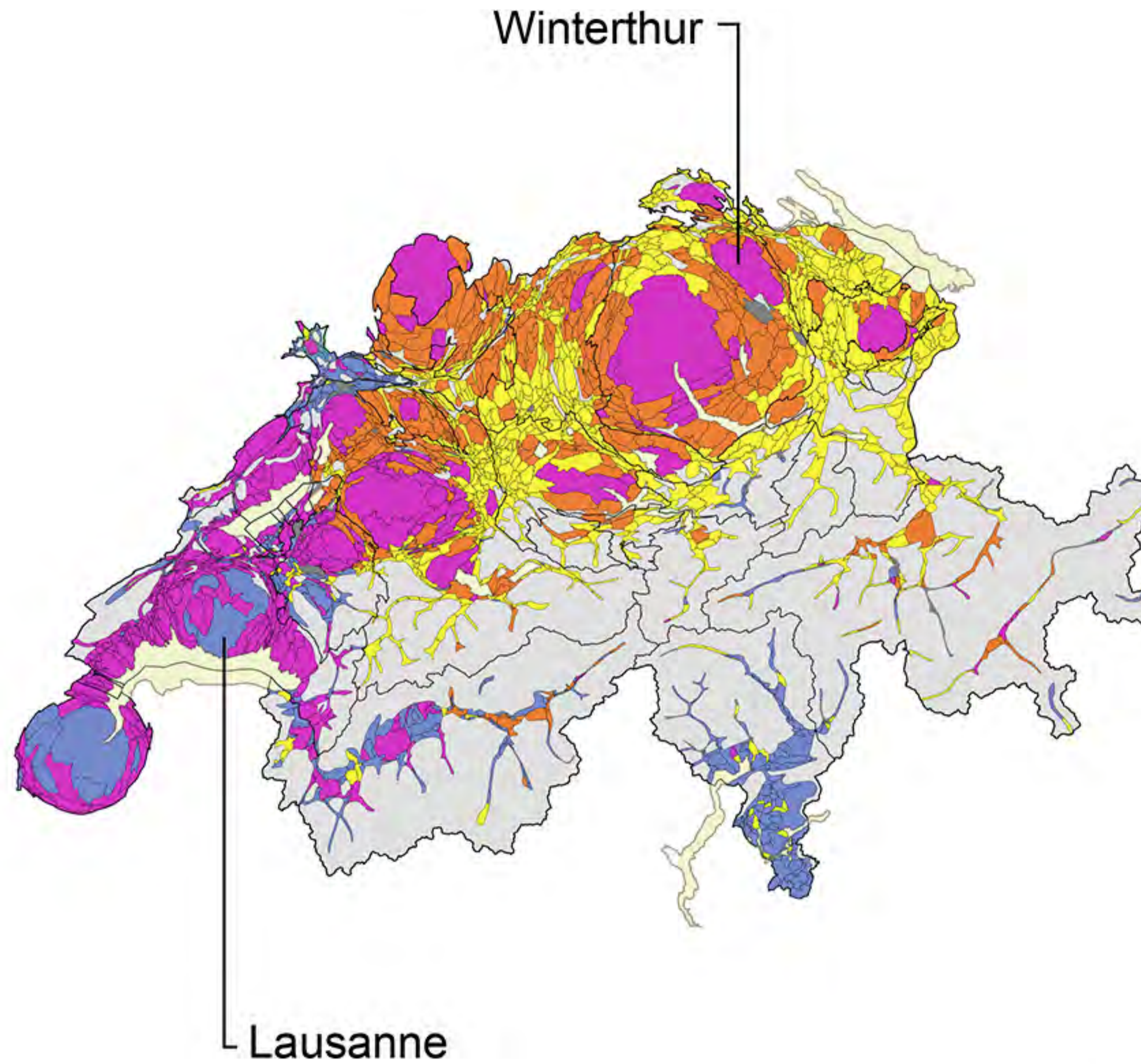
Agreement networks — S. Koseki, 2018



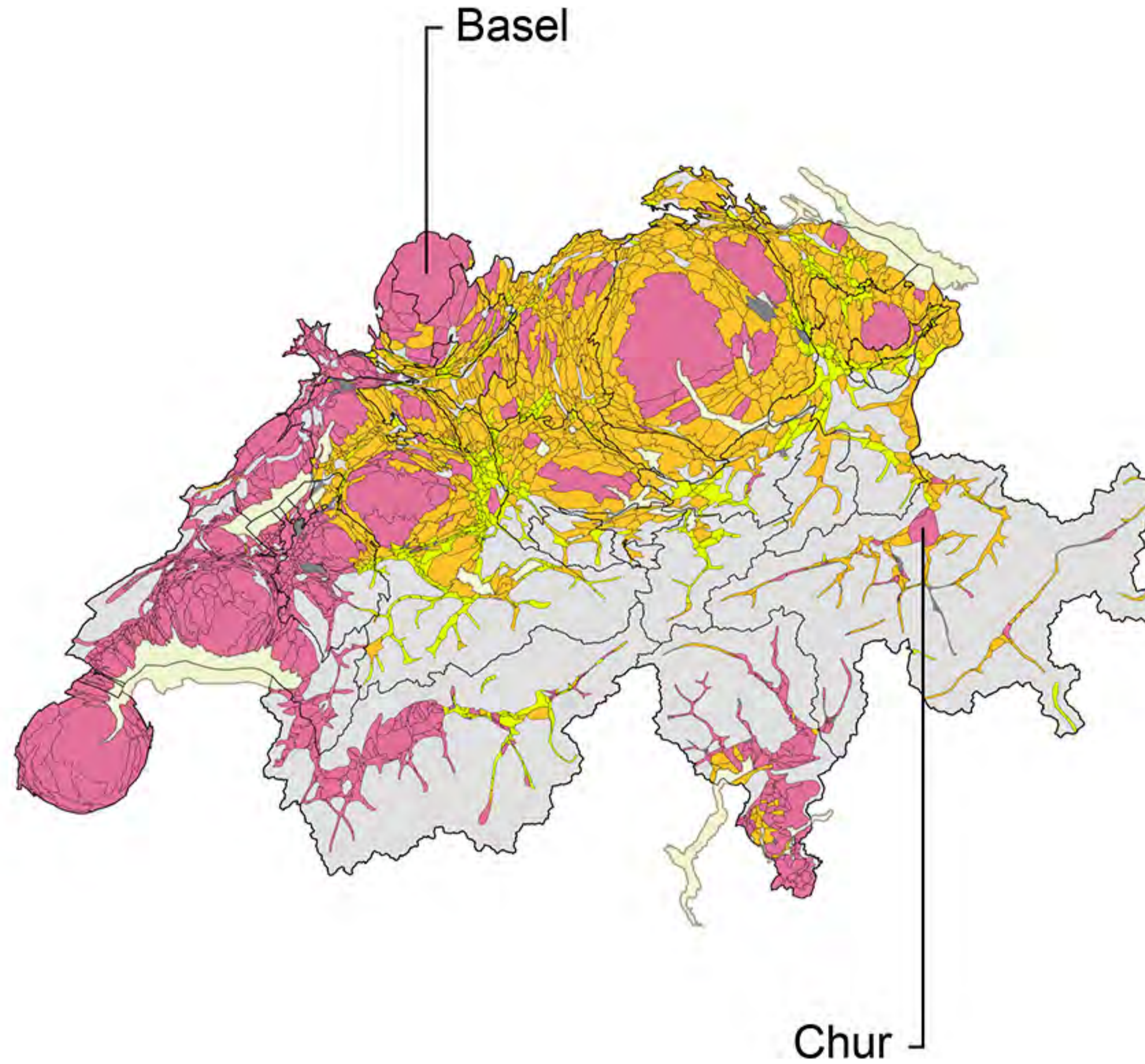
1981-90 A



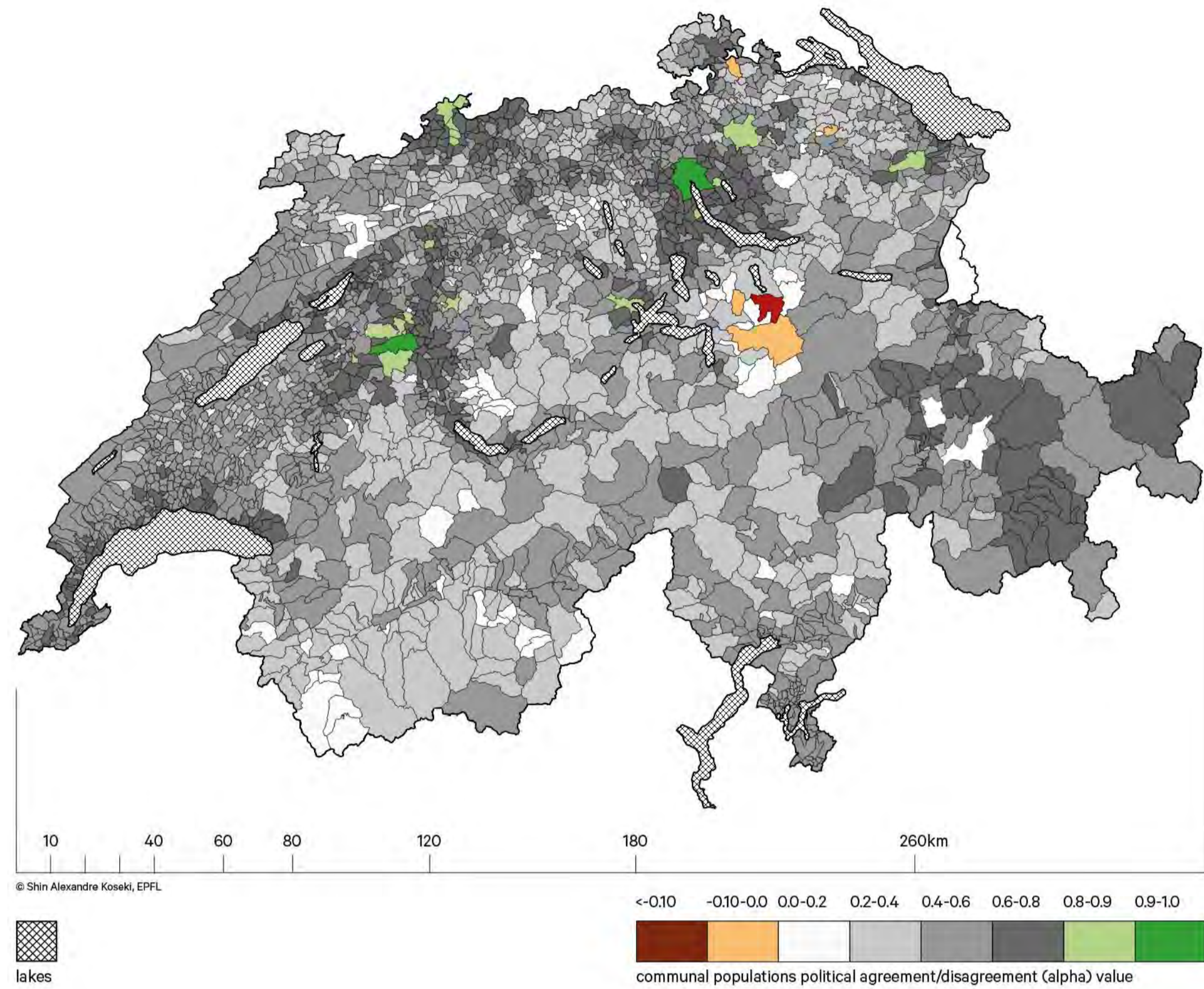
1991-00 B



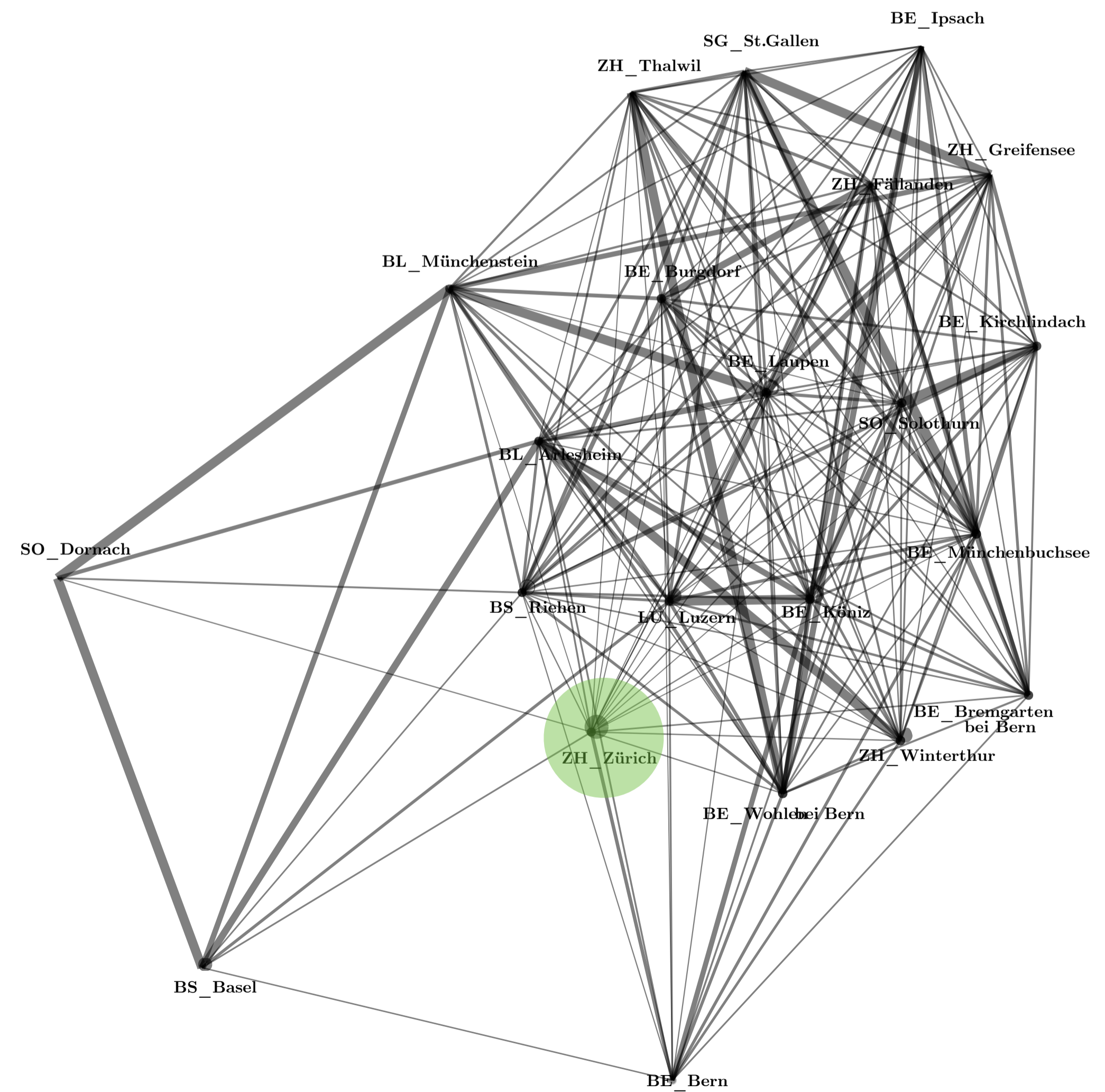
2001-10 C



2010-15 D



Zurich's egocentric political map — S. Koseki 2017



Zurich's egocentric political network — S. Koseki 2017



Zurich, Switzerland — C. Schwartz



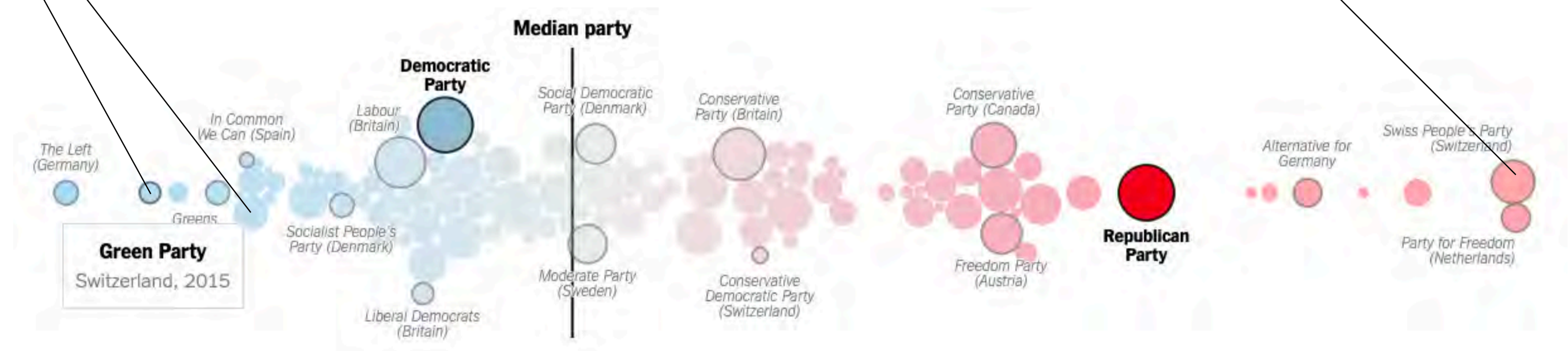
Muotathal, Switzerland — © Stoos-Muotathal



Zurich, Switzerland — C. Schwartz



Muotathal, Switzerland — Stoos-Muotathal



Right-Left Classification of political parties in Western Europe and North America — New York Times, 2019

Summary

How values intersect in urban space?

- Three factors
Urbanisation, Globalization & Distribution
- Three mechanisms
Copresence, mobility, telecommunication
- Values produce urban design and planning projects
eg. Modernism & Contemporary
- Many form of values
eg. economical, social and political
- Increasing political divide alongside urban / rural contexts



Anti-racism protests in Montreal, Canada – Ying Ge

**How design can
empower inhabitants?**

Aspirations

Affordances

Design
to
empower

Capabilities

Triadic model of agency – S. Koseki, 2019

Citizen Science



Participants for Public Space Public Life fieldwork — S. Koseki



Members of the French Citizen Convention for Climate, Paris

Interactive democracy



Montreal 2042: Ecostructure — BSc. Architecture studio, Université de Montréal

Transdisciplinary design

Shin Alexandre Koseki
PhD MArch

Chôros Paris
Lausanne Center for Digital Humanities
EPFL Habitat Research Center

shinkoseki.com

@sjinko