

Switzerland's secrets

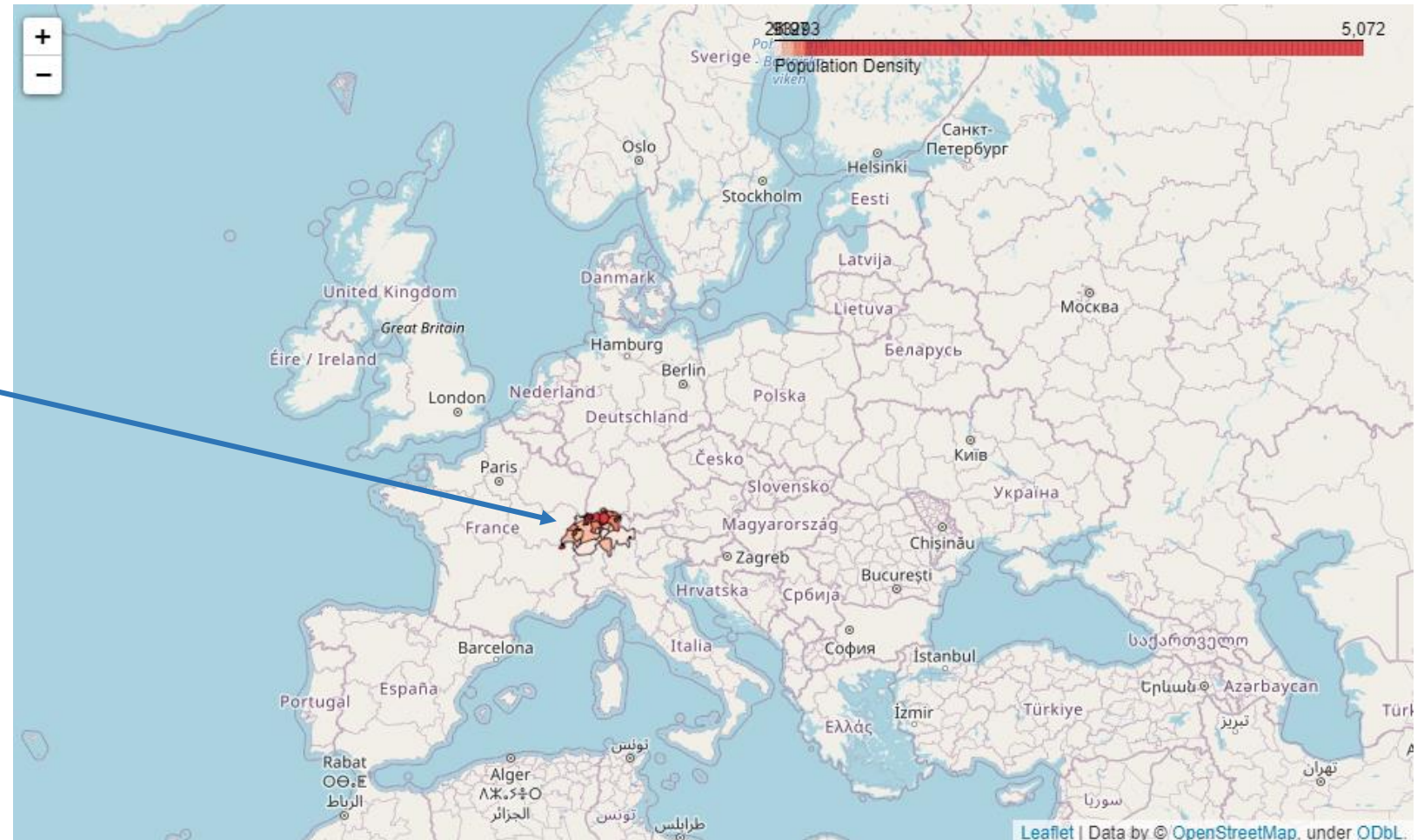
Where is what to expect?



Where is Switzerland?

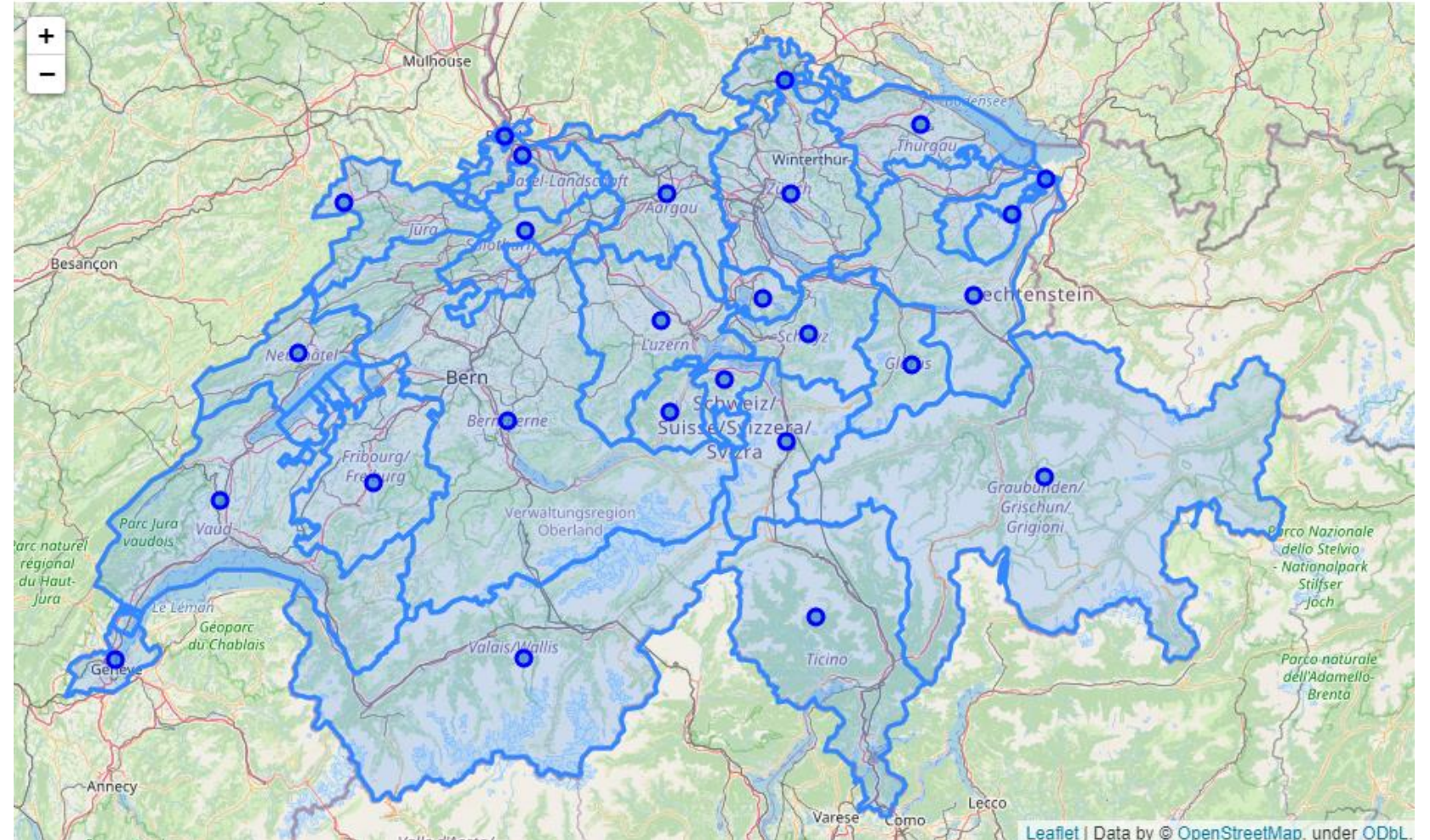
- Central Europe
- Famous for watches, chocolate and as tax haven

Switzerland



Switzerland's inner structure

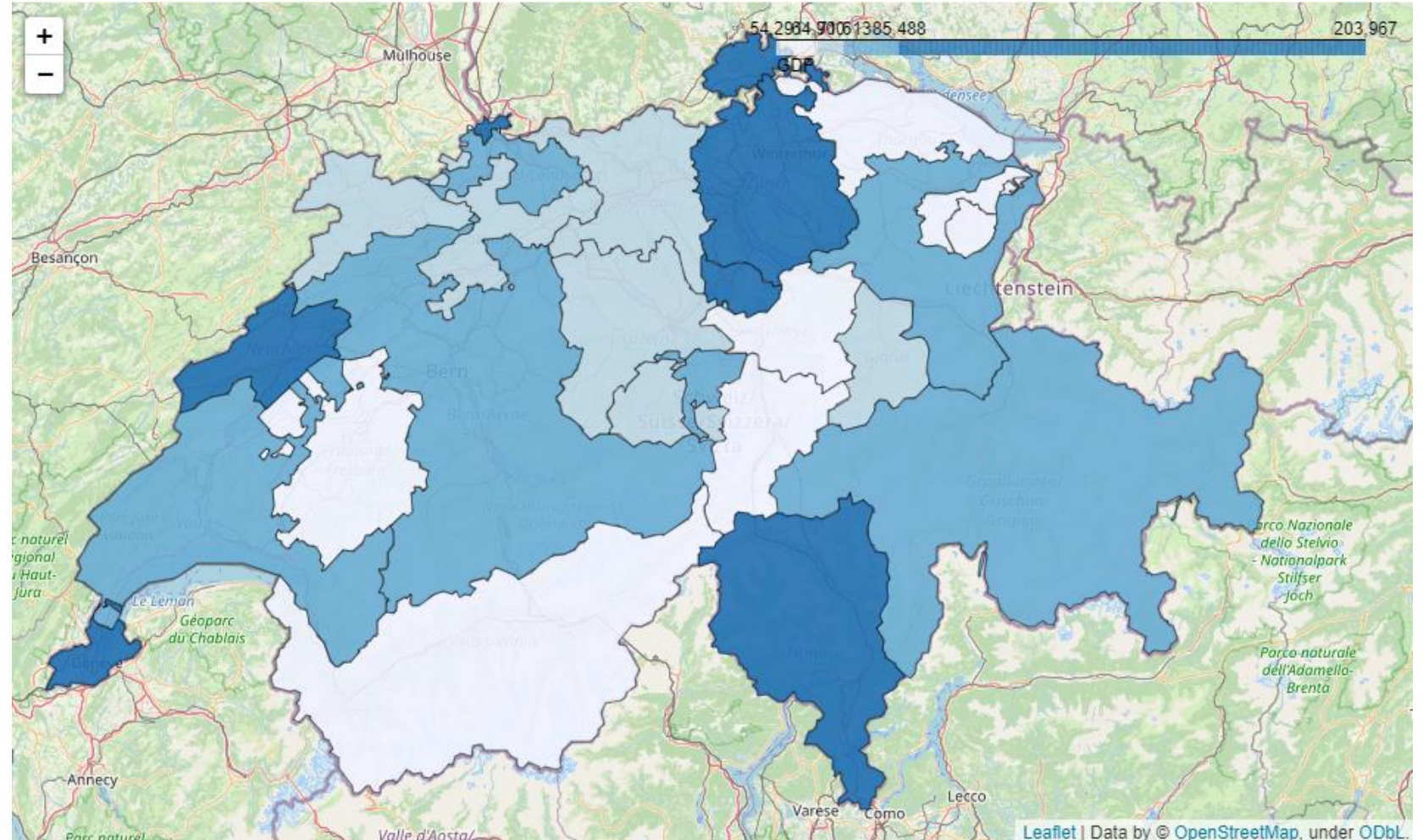
- Switzerland is subdivided into 26 areas, or cantons.
- Typical for European countries, the borders of country and cantons were formed and shaped over the centuries in wars and treaties.



Switzerland's cantonal GDP

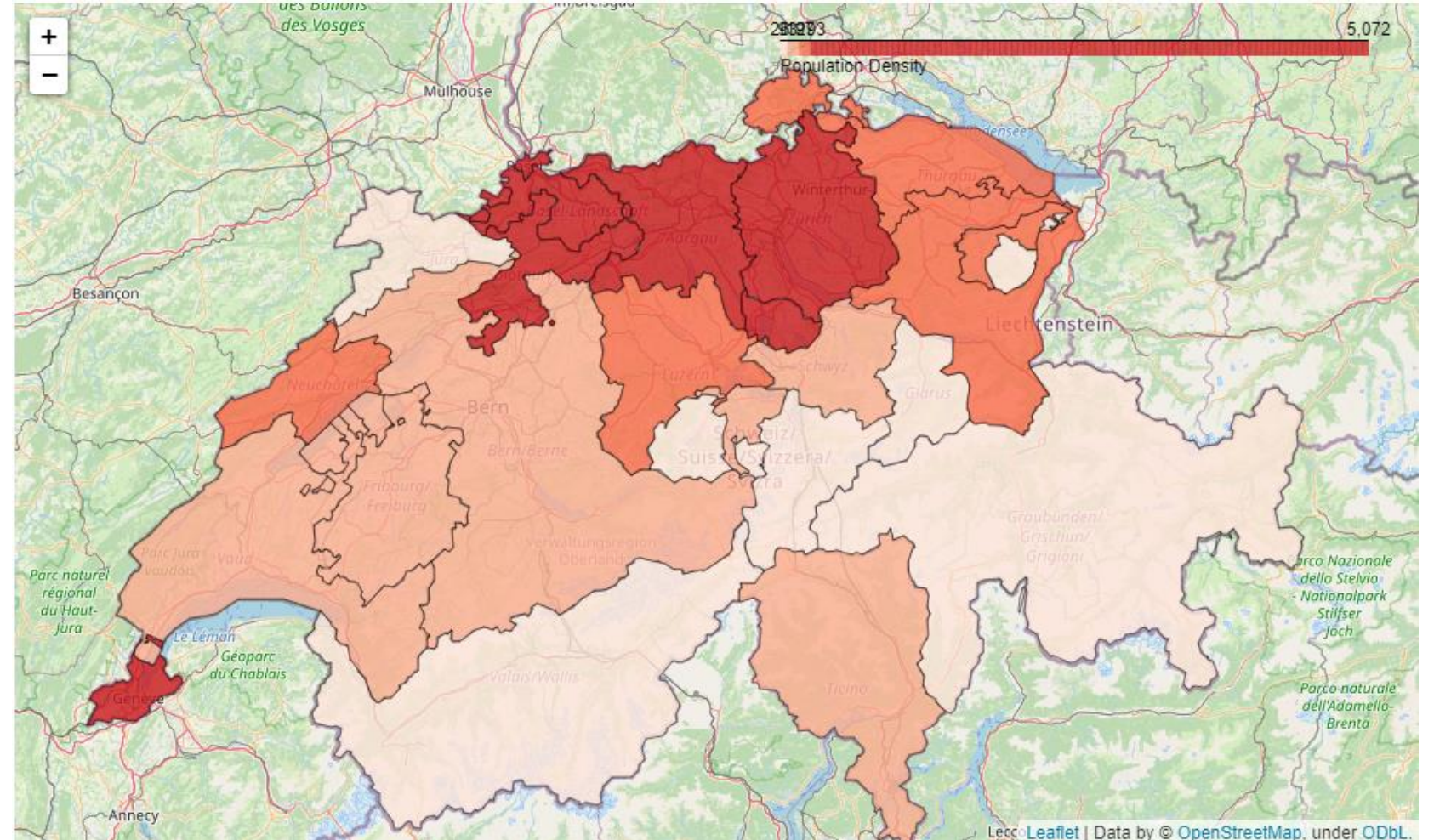
- 7 cantons with high GDP:

- Basel
- Geneva
- Neuchâtel
- Ticino
- Schaffhausen
- Zug
- Zurich



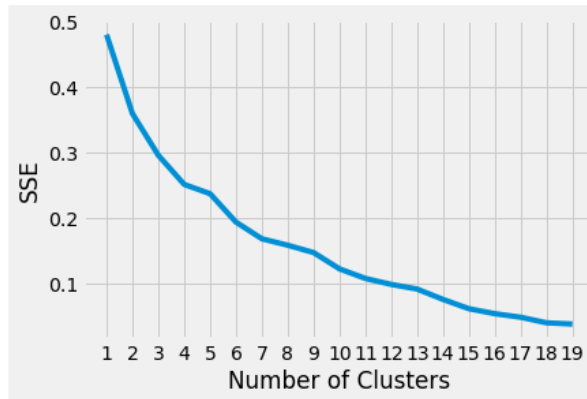
Switzerland's population density

- 2 areas with high population density:
 - Central north
 - Geneva



Canton's clusters

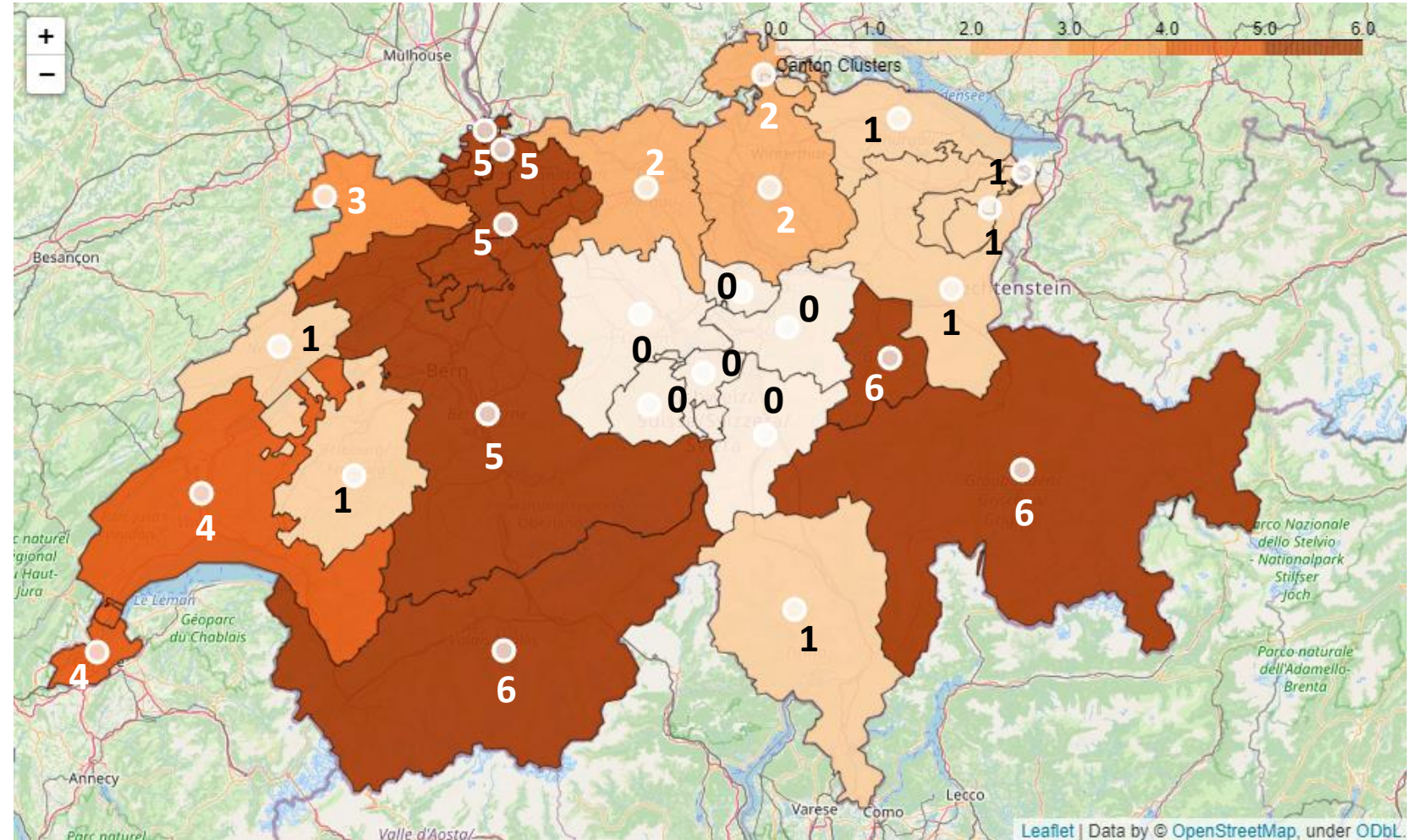
- Kmeans clustering based on Top 10 venues (Foursquare)
- 7 clusters



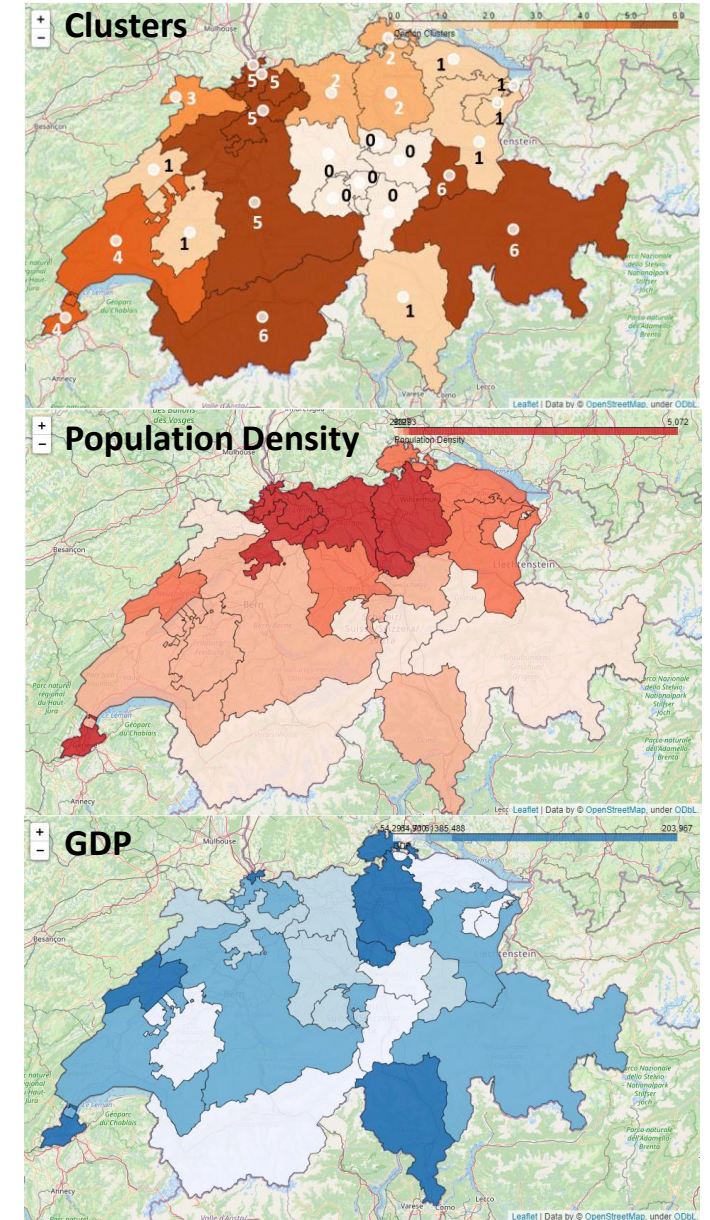
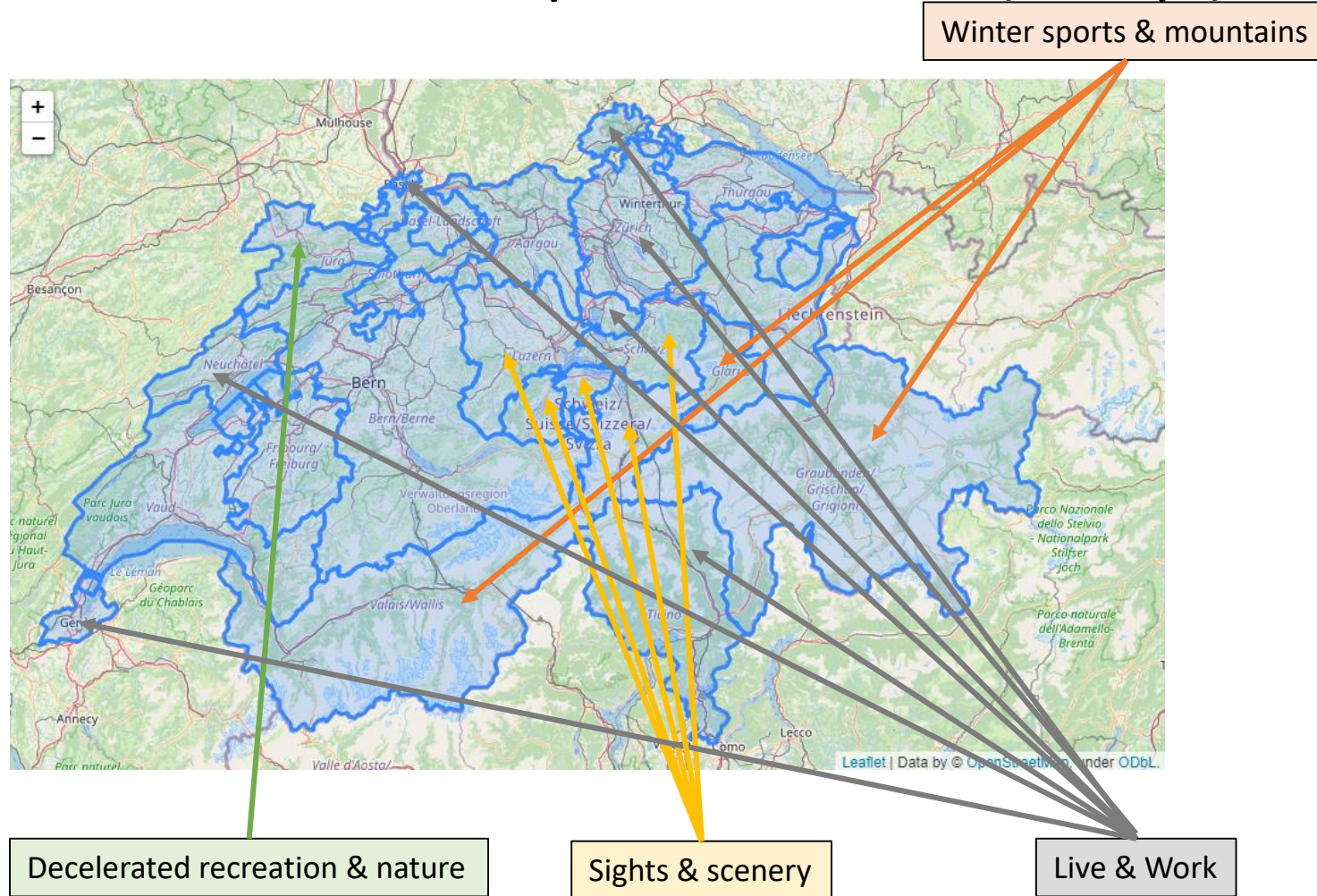
```
#calculate number of clusters with KneeLocator
k1 = KneeLocator(
    range(1, 20), sse, curve="convex", direction="decreasing"
)

kclusters = k1.elbow
kclusters
```

7



Where to expect what (map)



Where to expect what (table)

	Canton	Cluster Labels	1st Most Common Venue	2nd Most Common Venue	3rd Most Common Venue	4th Most Common Venue	5th Most Common Venue	6th Most Common Venue	7th Most Common Venue	8th Most Common Venue	9th Most Common Venue	10th Most Common Venue
5	Kanton Luzern	0	Hotel	Mountain	Swiss Restaurant	Restaurant	Park	Shopping Mall	Café	Scenic Lookout	Train Station	Bridge
6	Uri	0	Hotel	Mountain	Ski Area	Scenic Lookout	Swiss Restaurant	Train Station	Trail	Bridge	Hotel Bar	Pool
7	Schwyz	0	Hotel	Pool	Park	Swiss Restaurant	Mountain	Restaurant	Ski Area	Scenic Lookout	Waterfront	Farmers Market
8	Obwalden	0	Hotel	Swiss Restaurant	Mountain	Train Station	Park	Café	Ski Area	Bridge	Historic Site	Scenic Lookout
9	Nidwalden	0	Hotel	Swiss Restaurant	Mountain	Ski Area	Bridge	Café	Scenic Lookout	Restaurant	Park	Train Station
11	Kanton Zug	0	Hotel	Park	Pool	Swiss Restaurant	Scenic Lookout	Gym / Fitness Center	Waterfront	Mountain	Plaza	Restaurant
12	Canton de Fribourg	1	Hotel	Swiss Restaurant	Café	French Restaurant	Bar	Pizza Place	Ski Area	Chocolate Shop	Restaurant	Plaza
17	Appenzell A. Rh.	1	Hotel	Swiss Restaurant	Restaurant	Café	Italian Restaurant	Austrian Restaurant	Scenic Lookout	Coffee Shop	Ski Area	German Restaurant
18	Appenzell I. Rh.	1	Hotel	Restaurant	Café	Swiss Restaurant	German Restaurant	Austrian Restaurant	Italian Restaurant	Bar	Coffee Shop	Scenic Lookout
19	Kanton St. Gallen	1	Swiss Restaurant	Hotel	Restaurant	Café	Ski Area	Bar	Mountain	Trail	Dessert Shop	Resort
22	Thurgau	1	Hotel	Swiss Restaurant	Café	German Restaurant	Bar	Ice Cream Shop	Palace	Restaurant	Italian Restaurant	Park
23	Tessin	1	Hotel	Italian Restaurant	Swiss Restaurant	Plaza	Café	Restaurant	Mountain	Scenic Lookout	Beach	Supermarket
26	Canton de Neuchâtel	1	Café	Hotel	Restaurant	Swiss Restaurant	Bar	Brewery	Music Venue	Beer Garden	Museum	Italian Restaurant
3	Kanton Zürich	2	Swiss Restaurant	Café	Pool	Park	Bakery	Hotel	Bar	Plaza	Japanese Restaurant	Vegetarian / Vegan Restaurant
16	Kanton Schaffhausen	2	Swiss Restaurant	Hotel	Café	Airport Lounge	Bakery	Bar	Park	Coffee Shop	Beach	Zoo Exhibit
21	Aargau	2	Park	Café	Bakery	Swiss Restaurant	Pool	Bar	Hotel	Plaza	Japanese Restaurant	Vegetarian / Vegan Restaurant
28	Canton de Jura	3	Train Station	Supermarket	Hotel	Café	Sporting Goods Shop	Swiss Restaurant	Park	Grocery Store	Brewery	Steakhouse
24	Vaud	4	French Restaurant	Park	Bar	Restaurant	Hotel	Beach	Art Museum	Plaza	Church	Gym
27	Canton de Genève	4	French Restaurant	Hotel	Park	Bar	Coffee Shop	Ice Cream Shop	Dessert Shop	Ski Area	Beach	Department Store
4	Kanton Bern	5	Café	Park	Hotel	Bar	Plaza	Swiss Restaurant	Train Station	Restaurant	Ice Cream Shop	Tram Station
13	Kanton Solothurn	5	Swiss Restaurant	Bar	Hotel	Café	Park	Art Museum	Italian Restaurant	Restaurant	Concert Hall	Plaza
14	Basel-Stadt	5	Park	Hotel	Art Museum	Café	Swiss Restaurant	Supermarket	Plaza	Bar	Concert Hall	Bakery
15	Basel-Landschaft	5	Park	Hotel	Café	Art Museum	Swiss Restaurant	Plaza	Supermarket	Bar	Scenic Lookout	Concert Hall
10	Glarus	6	Swiss Restaurant	Hotel	Ski Area	Restaurant	Mountain	Bar	Trail	Resort	Scenic Lookout	Rest Area
20	Graubünden	6	Hotel	Ski Area	Restaurant	Swiss Restaurant	Mountain	Scenic Lookout	Italian Restaurant	Ski Chalet	Ski Lodge	Town
25	Valais	6	Ski Area	Swiss Restaurant	Hotel	Restaurant	Café	Après Ski Bar	Mountain	Train Station	Town	Tea Room

Sights & scenery

Live & Work

Decelerated recreation & nature

Live & Work

Winter sports & mountains