

ADA-Project

Temporal analysis of
networking activity in
non-urban points of interest
in Switzerland

Dataset

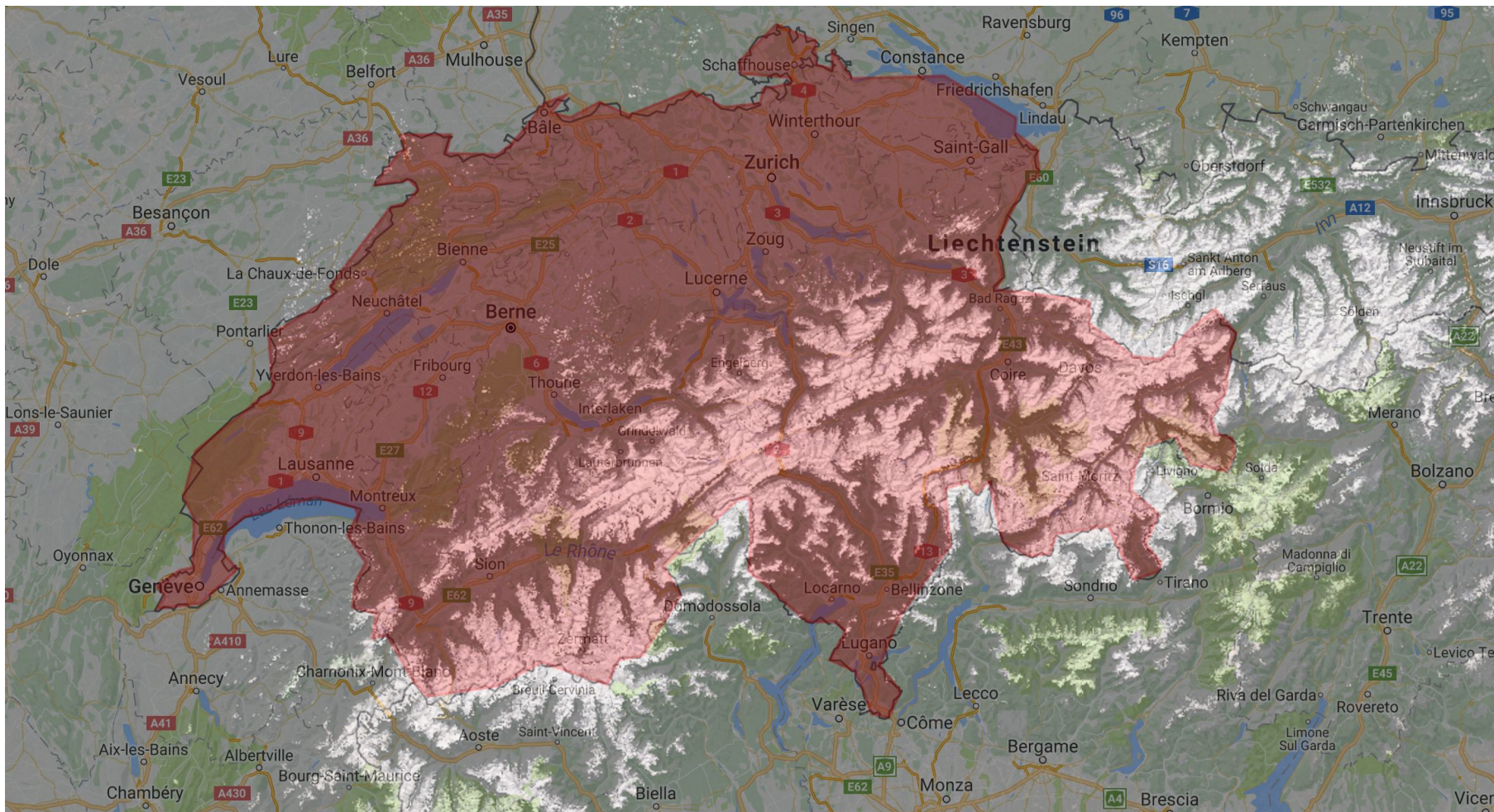
Twitter data in Switzerland
~20M tweets from 2010-2016
Geolocated

Urban detection

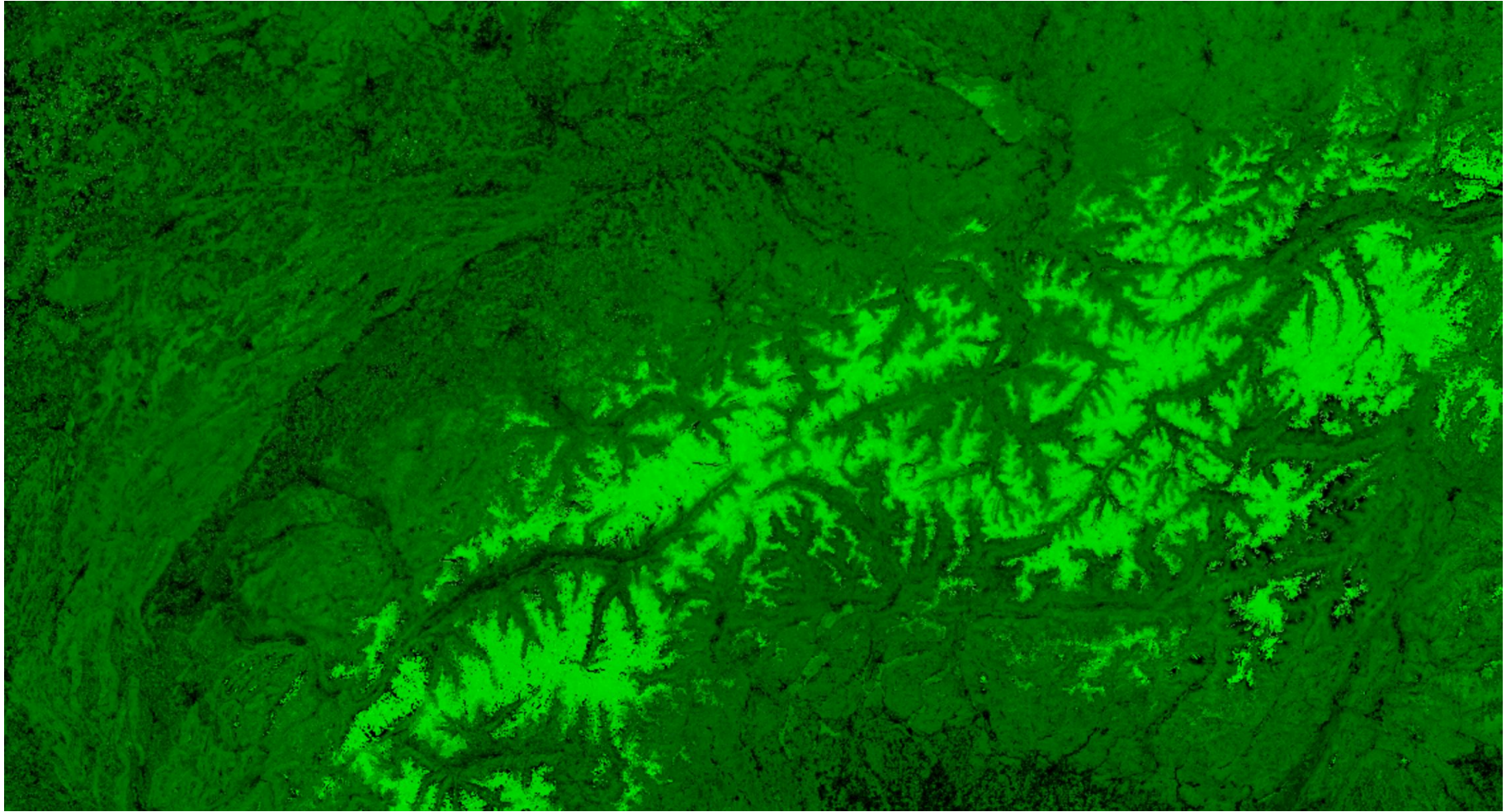
Remote sensing using Landsat 8 images

NDBI (Normalized Difference Built-up Index)

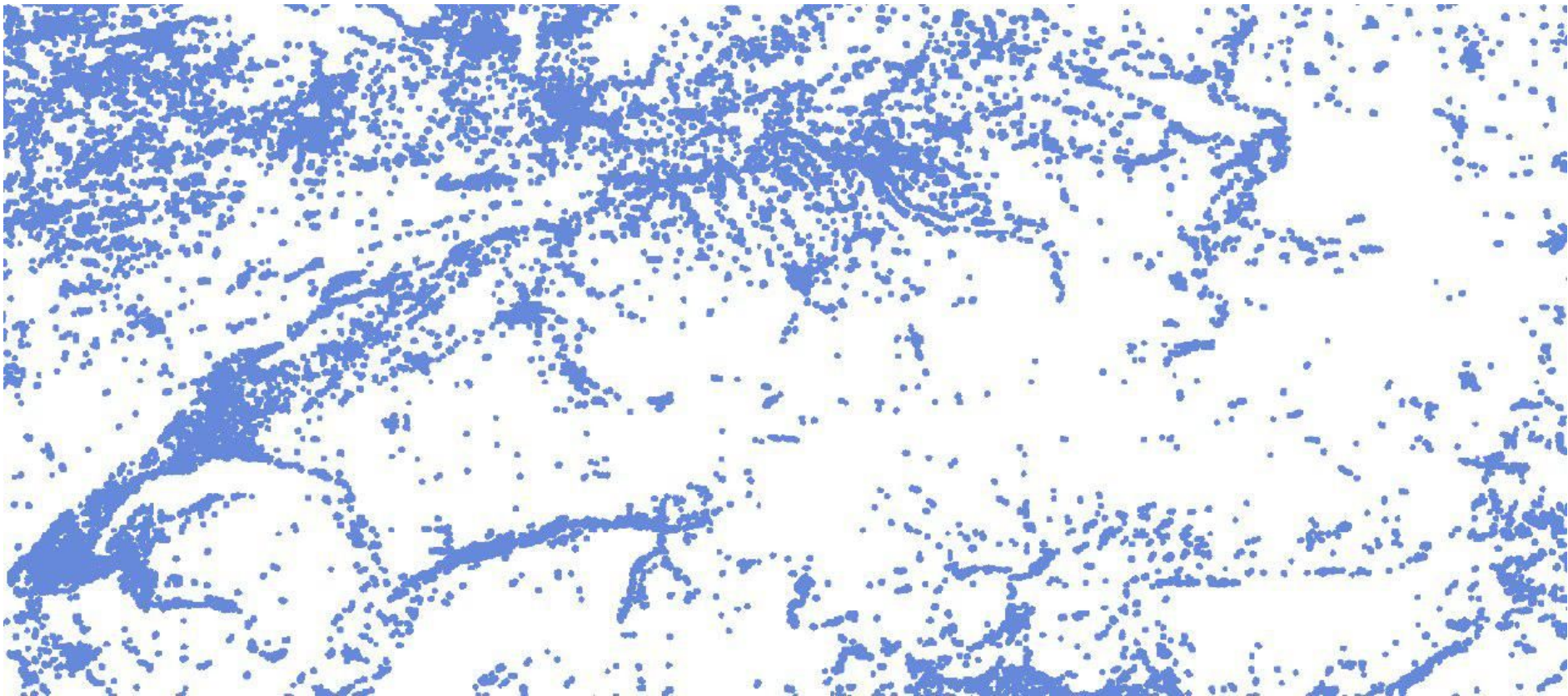
Morphological operator

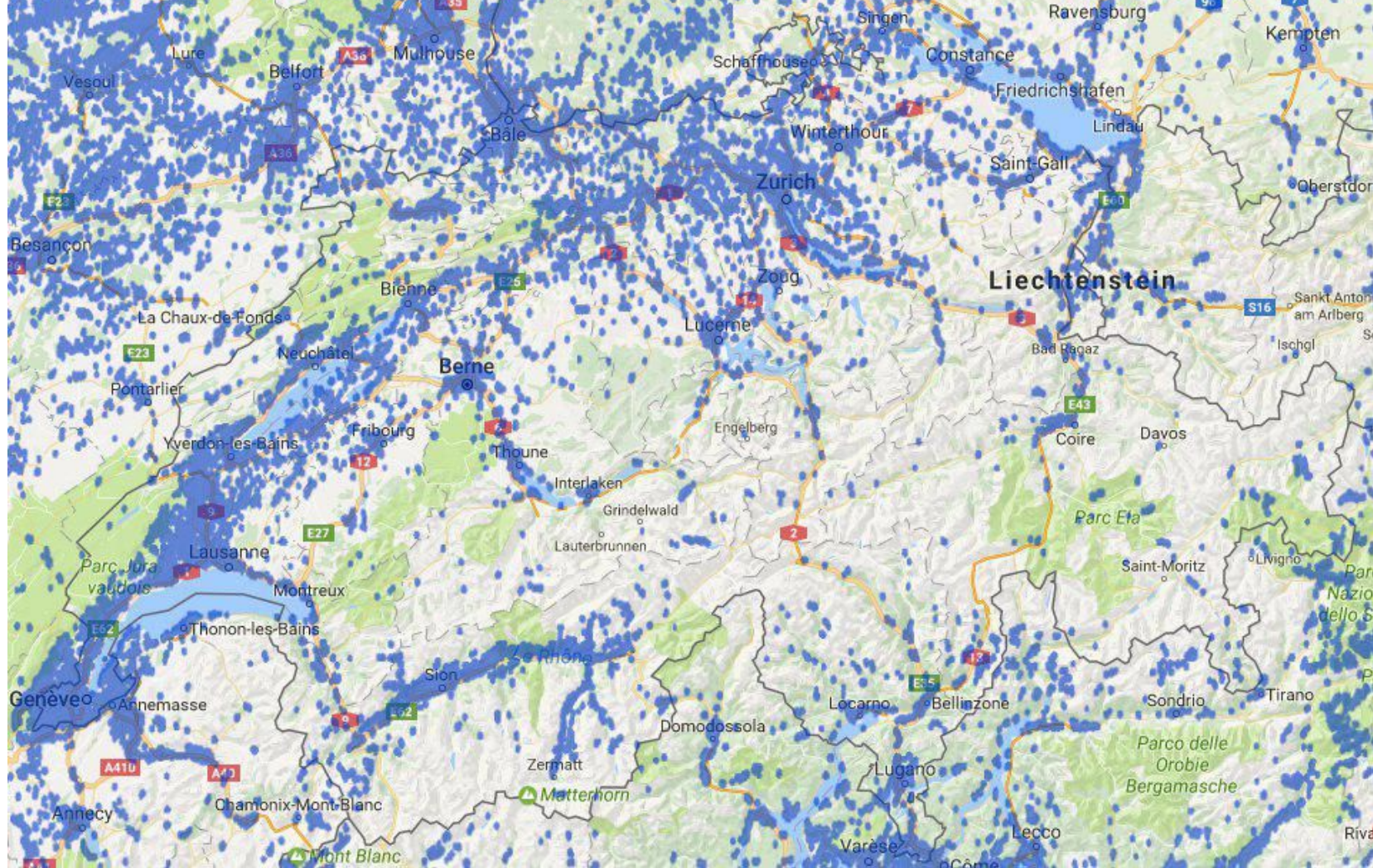


NDBI - Normalized Difference Built-up Index



Smooth -> Treshold -> Morphological operator





Clustering

Discard urban tweets using the mask

Run DSCAN clustering to find points of interest

(K-means for now)

Select top 50

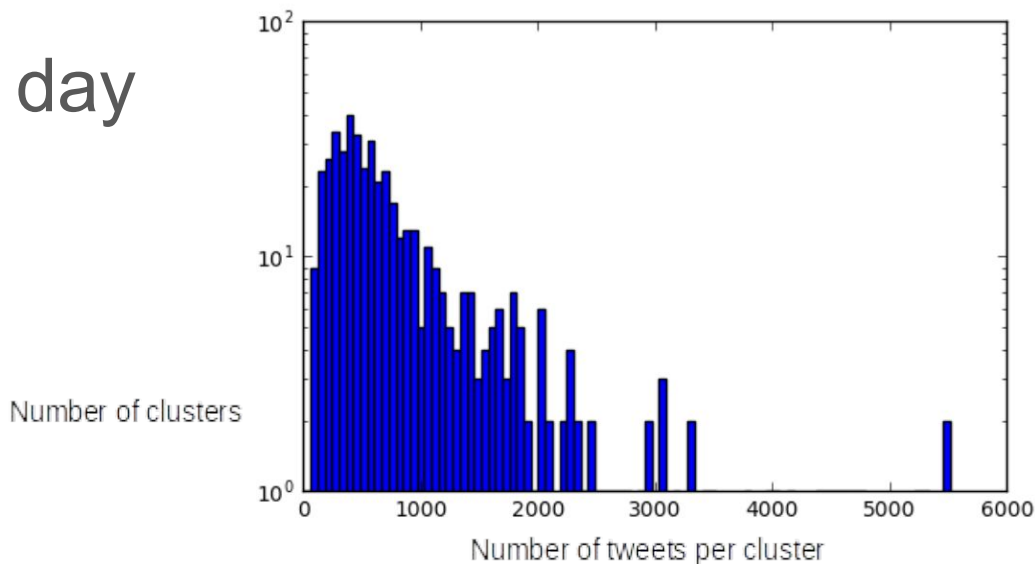
Get addresses

Stats

Group tweets by cluster and date

Compute tweets per day

Display!



<http://nathanquinteiro.azurewebsites.net/>