Crimes in the UK
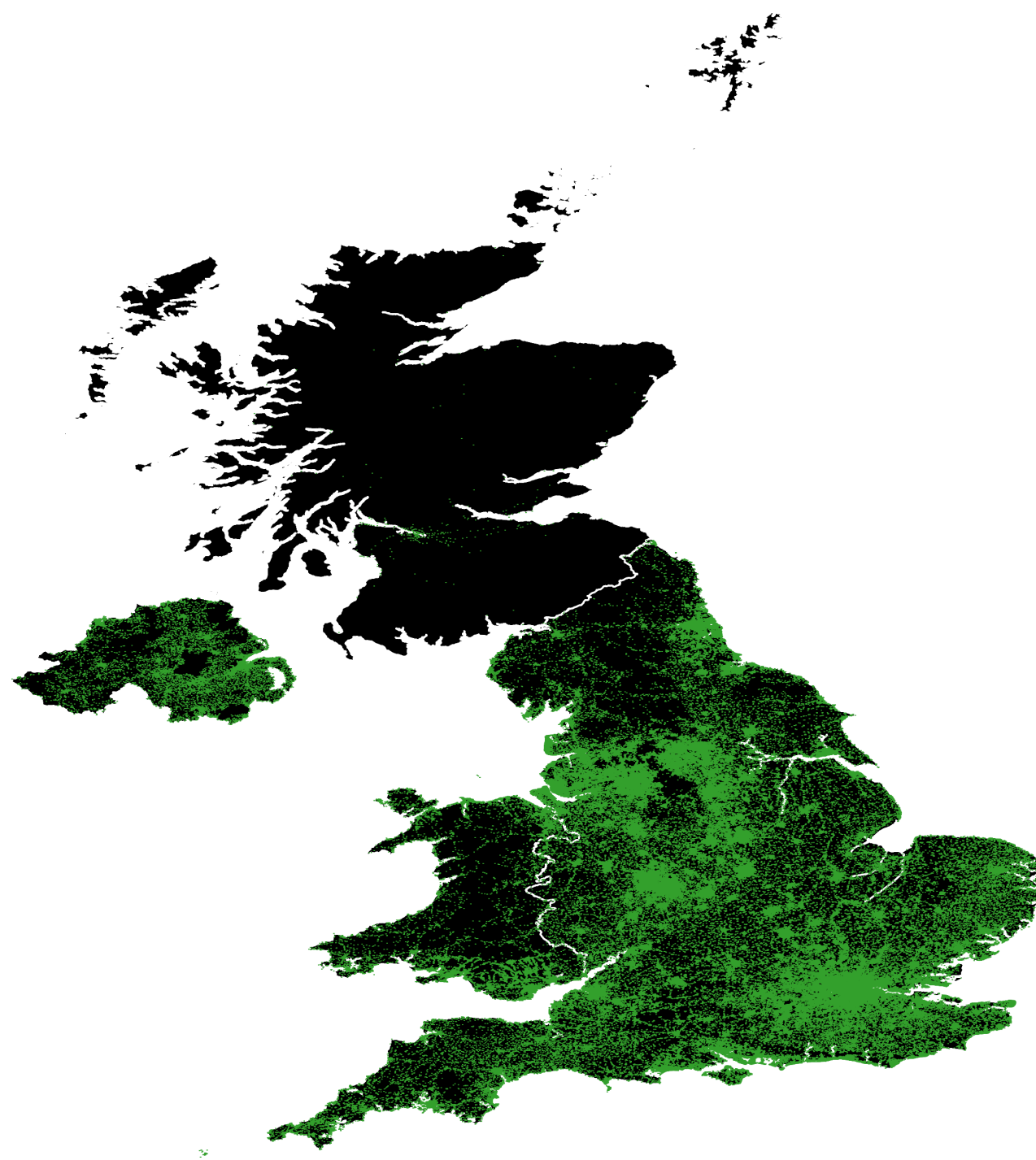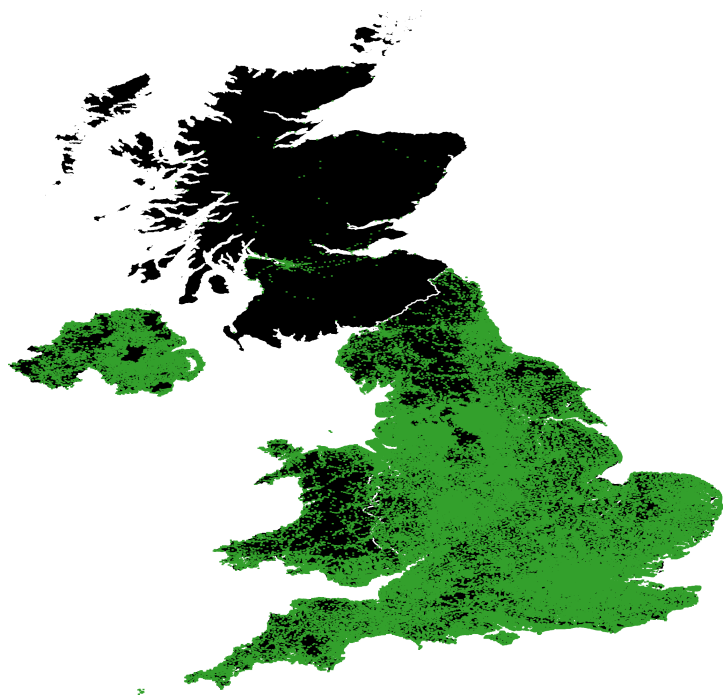
Week 08 – 11.01.2017

Sergiu Soima
Chaoran Chen
Aser Abdelrahman
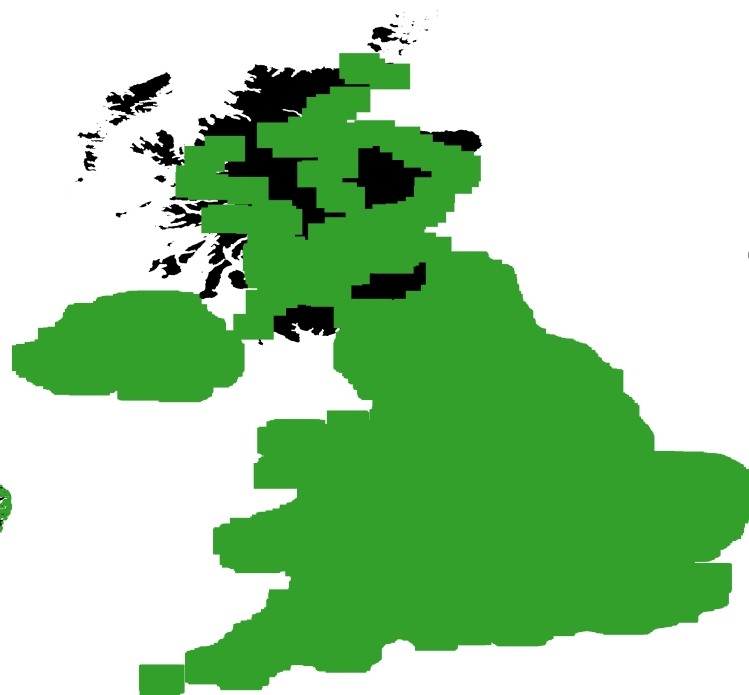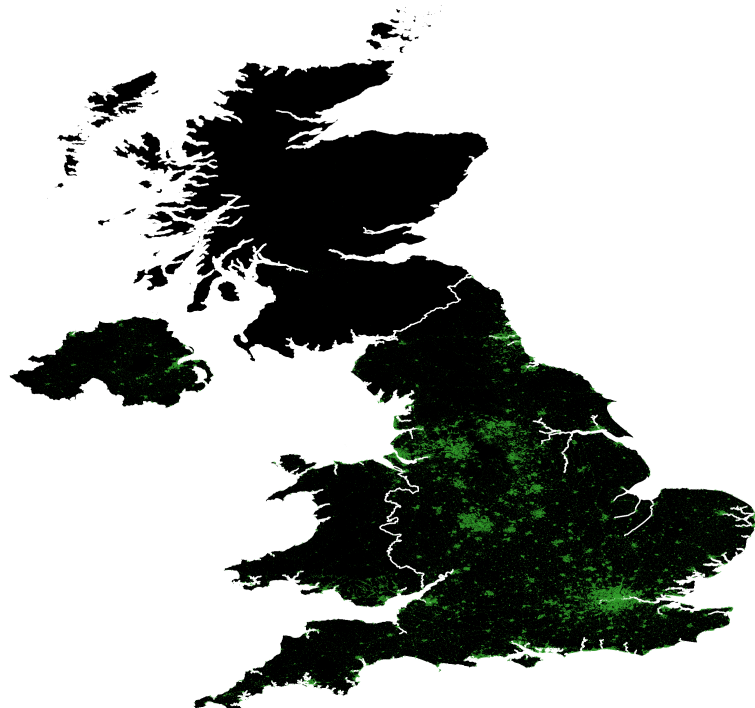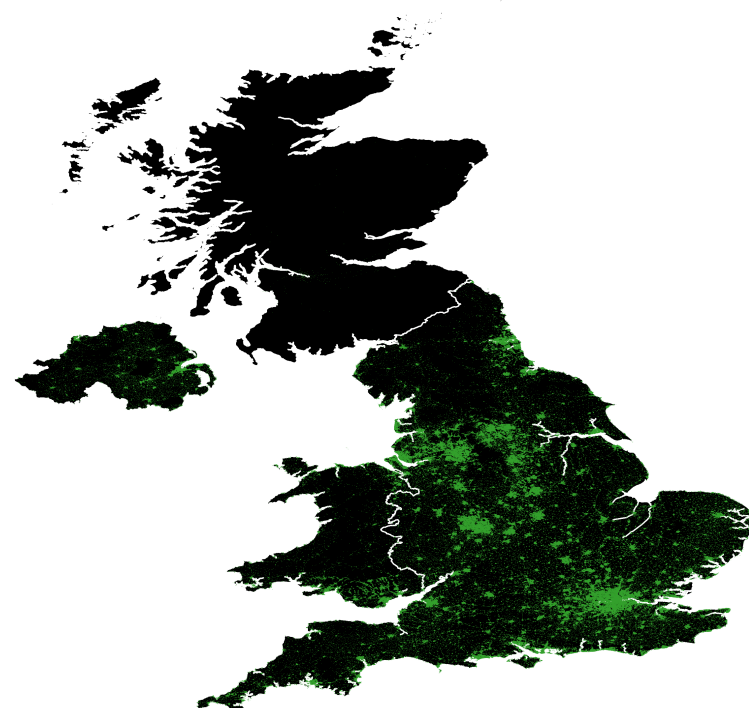
500 m

1 km

20 km

100 m

200 m

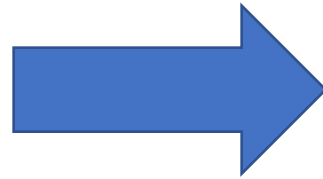# New Datasets

1. Police forces:
   - Formation year
   - Annual budget
   - Area size covered
   - Number of stations
   - Number of the police officers

2. Extension of demographic data

Prediction: Number of Crimes

Demographic Data

- Population, #males/females
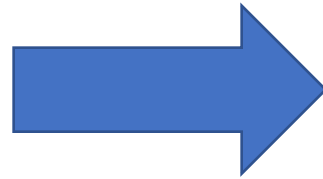- Age distribution
- Ethnicity group
- Religion
- …

Number of crimes

- Total number
- Of a certain crime type
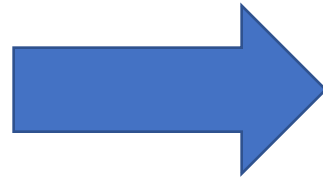- In a certain month
- …

Anomaly Detection

All crime and demographic data ➡️ Abnormal areas
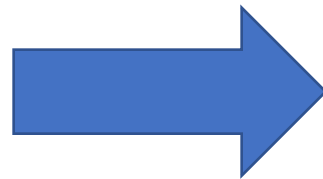
Prediction: Stop and Search Probability

- Information about a person
- Demographic data of an area
- Weekday

probability of getting stopped and searched

Prediction: Outcome

- Crime type
- Month
- Demographic data

probability of a **successful** case clearance