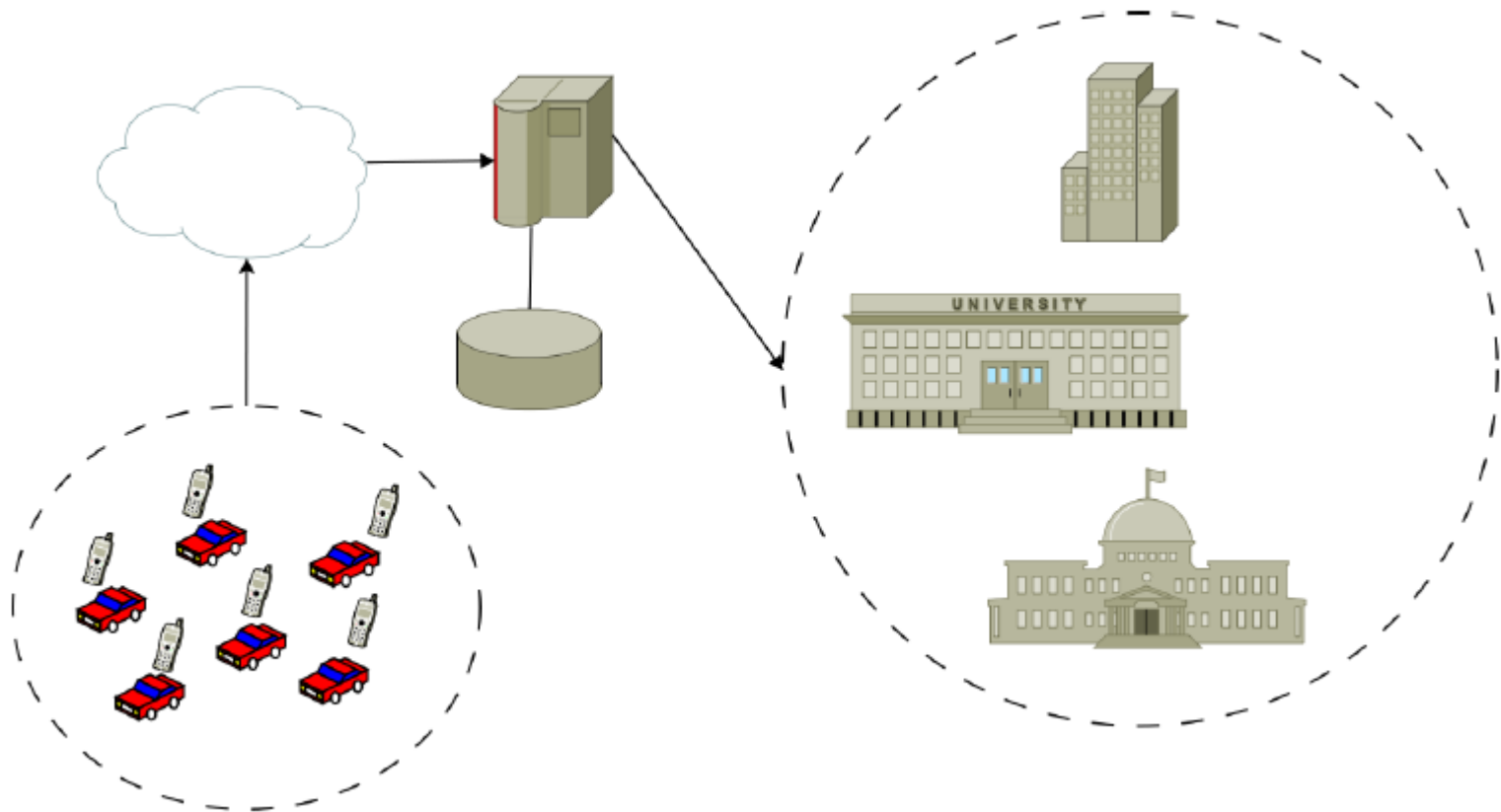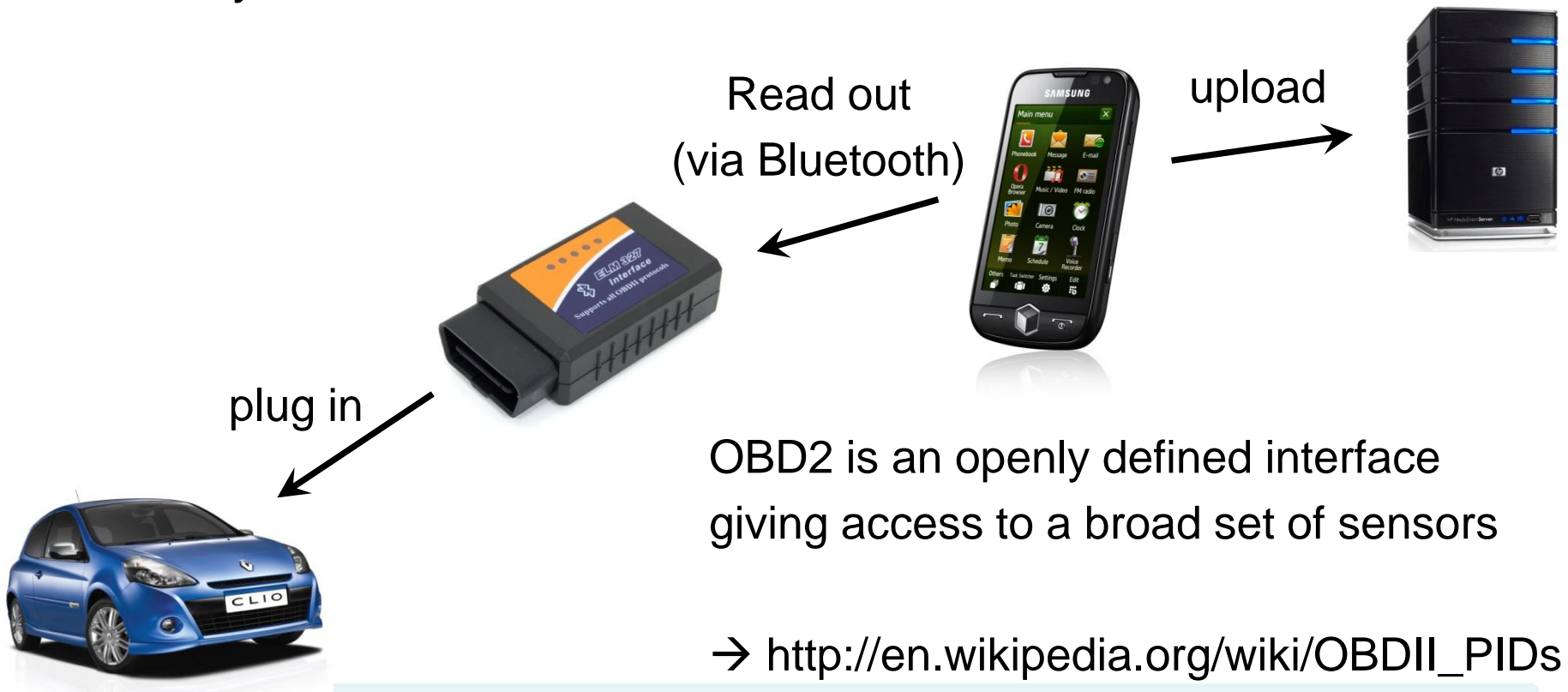# Automobile Sensors for Environmental Monitoring

Vision

- Leveraging existing car sensors towards environmental modelling and decision making

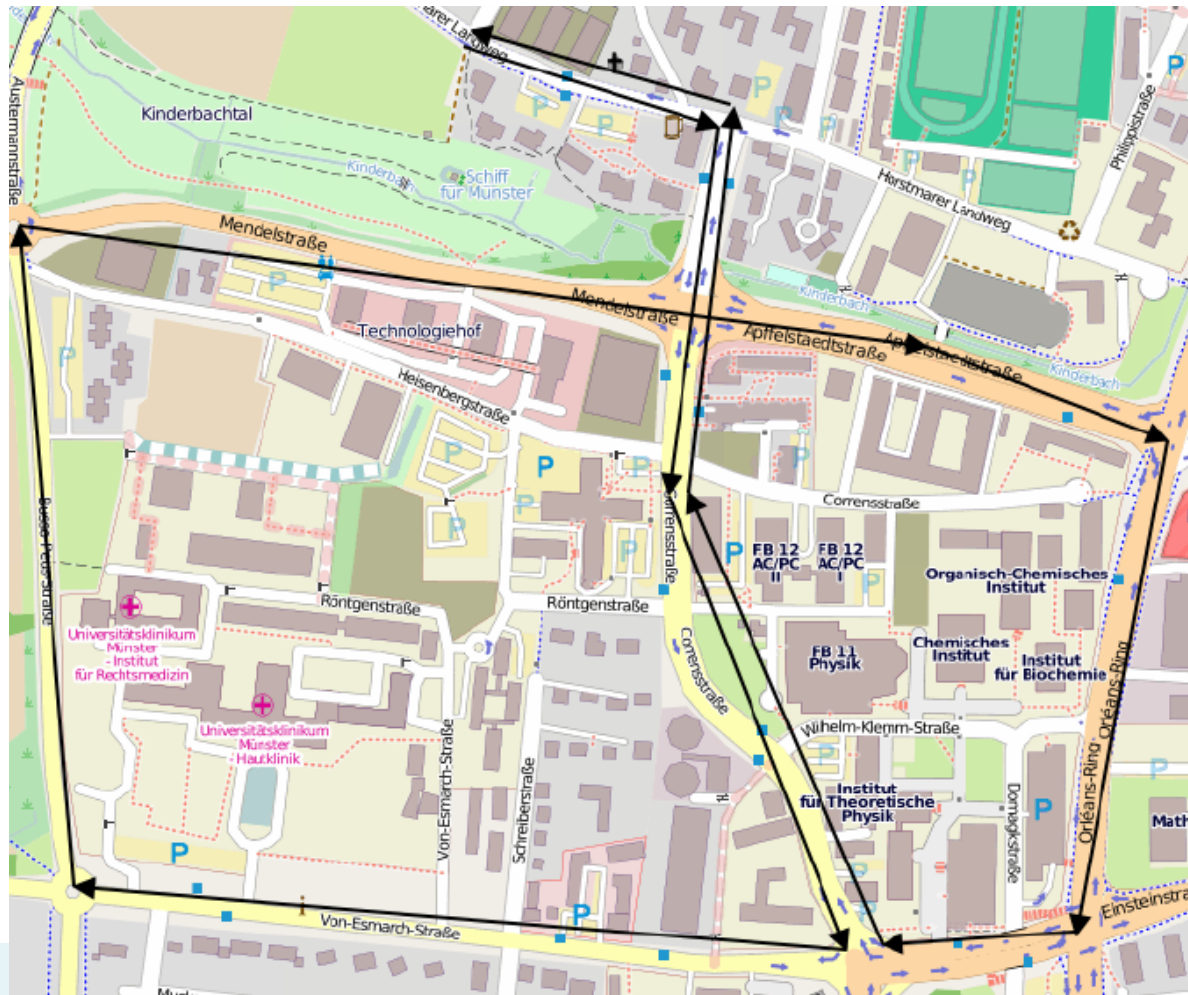# Principle

- Gathering automobile sensor data utilzing a common OBD2 reader (~ 20 €)
- Analysis of collected data on the server

Read out
(via Bluetooth)

upload

plug in

OBD2 is an openly defined interface giving access to a broad set of sensors

→ http://en.wikipedia.org/wiki/OBDII_PIDs

Evaluation

- Test track in Münster (Germany)

Evaluation

- Test cars

|	Hersteller	Modell	Fahrzeugklasse	Baujahr	Kraftstoff
1	KIA	Picanto	Kleinstwagen	2005	Benzin
2	BMW	118d	Kompaktklasse	2005	Diesel
3	BMW	525d	Obere Mittelklasse	2007	Diesel
4	Mercedes	E 220 CDi	Obere Mittelklasse	2010	Diesel
5	Hyundai	Santa Fe	SUV	2009	Diesel
6	Saab	9.3 1.9 TiD	Cabrio / Sportwagen	2006	Diesel

Analysis of Car Standing Times
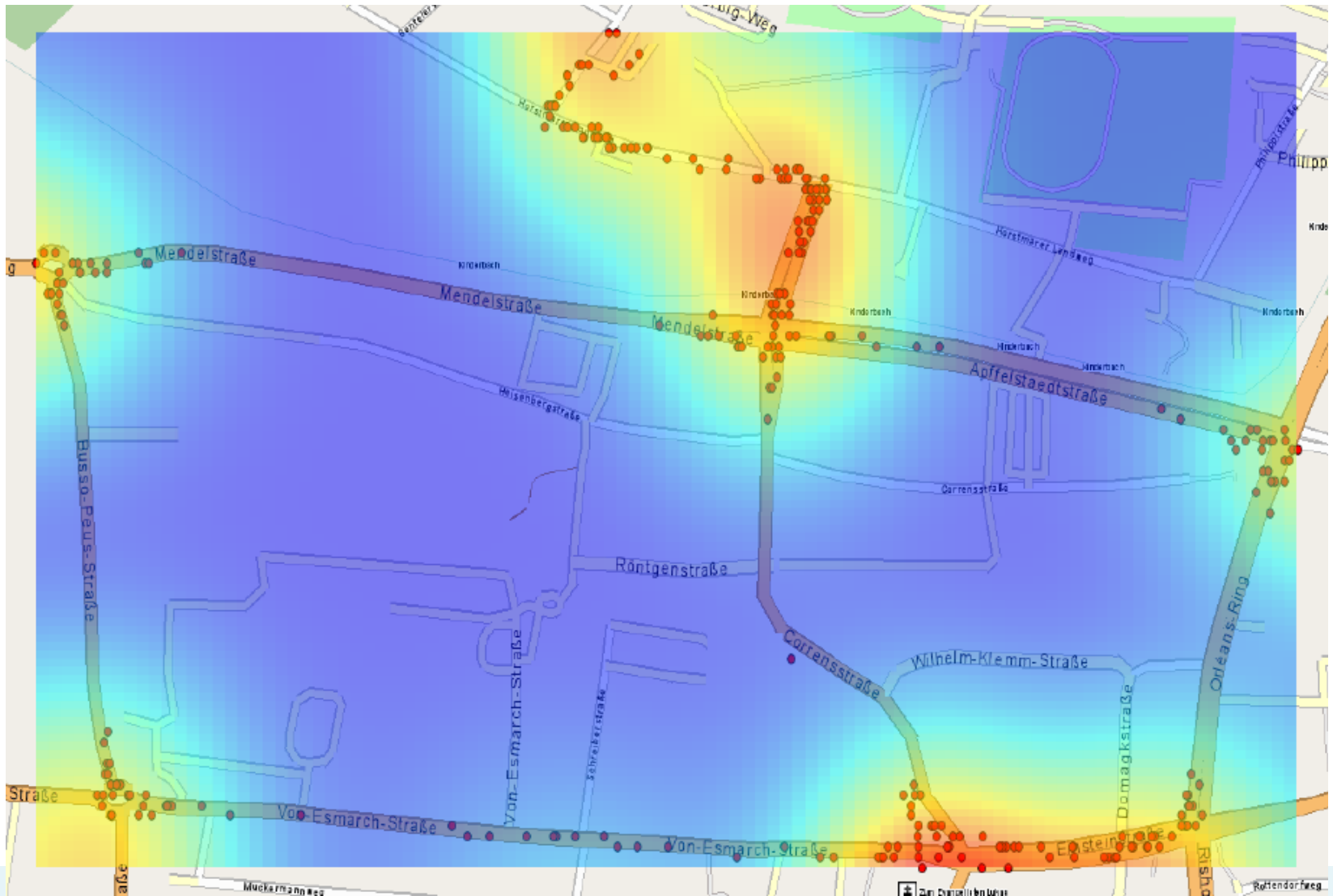
Aggregated CO2 Emmission
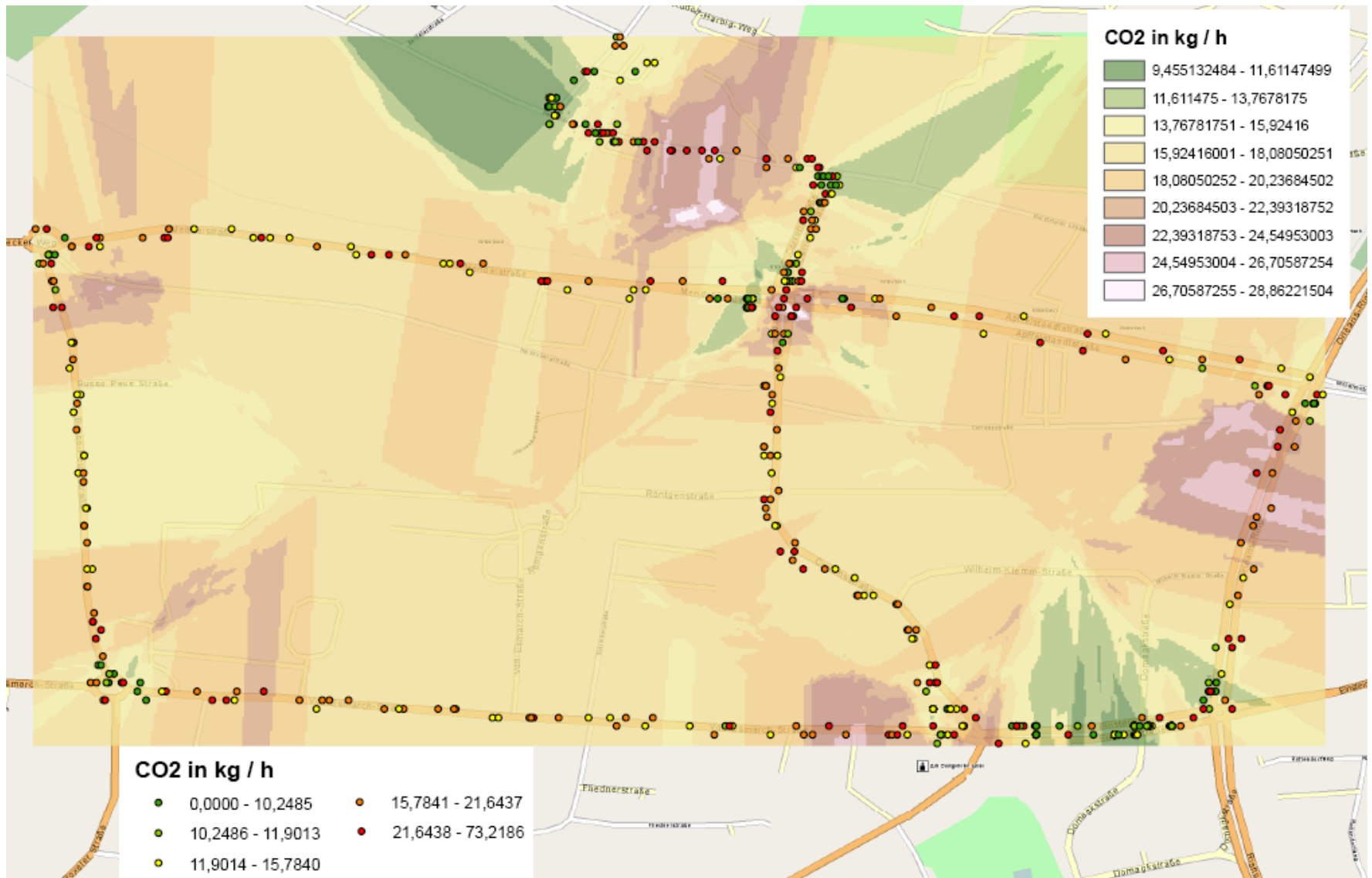
Produced Noise derived from RPM
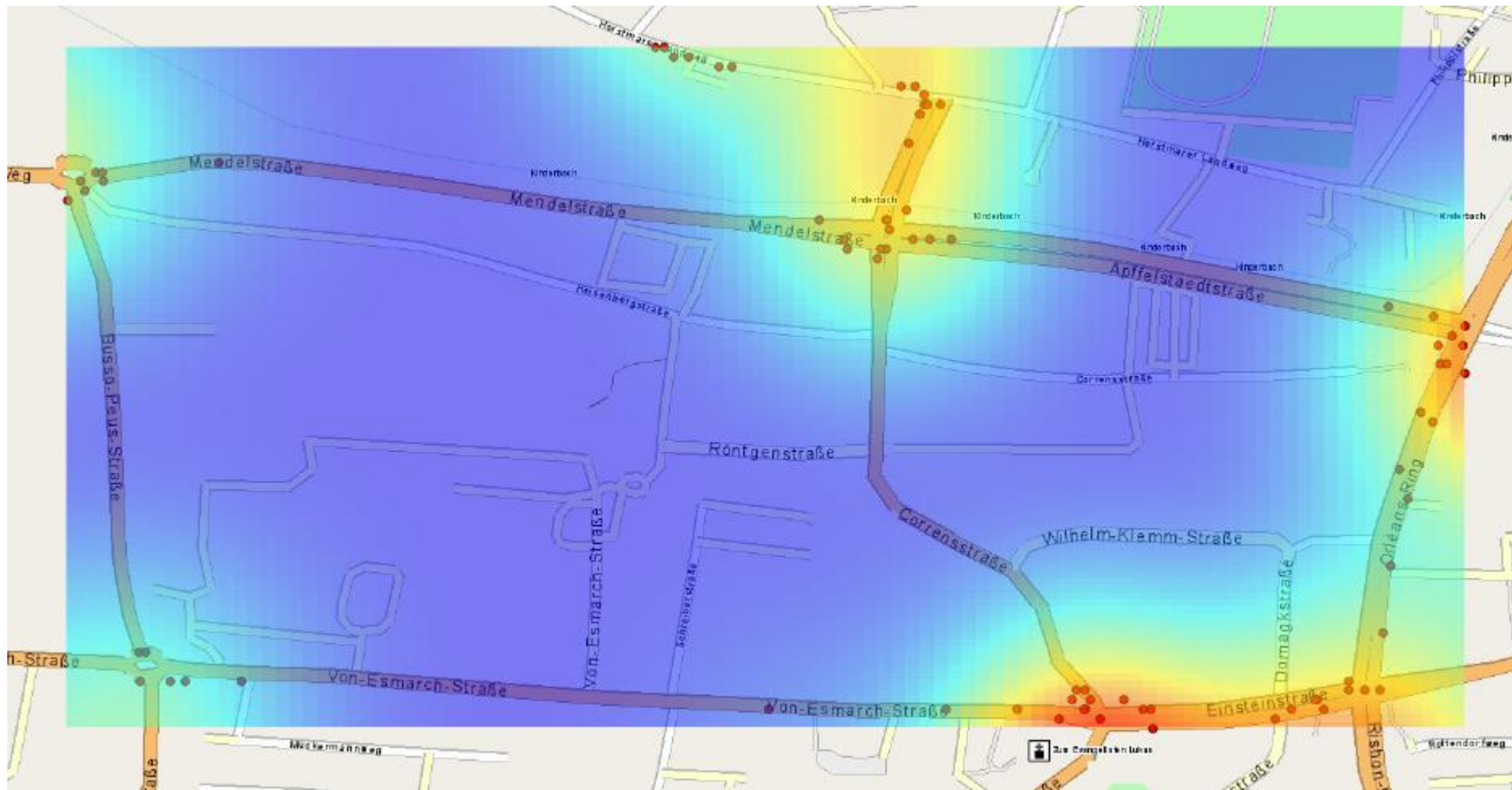
Questions?

Thank you!

Arne Bröring

broering@52north.org

52°North: http://52north.org