

Stadt Frankfurt am Main – Umweltamt

# Infrastructure and Frankfurt's Green Belt

## **Global Greenbelts Conference**

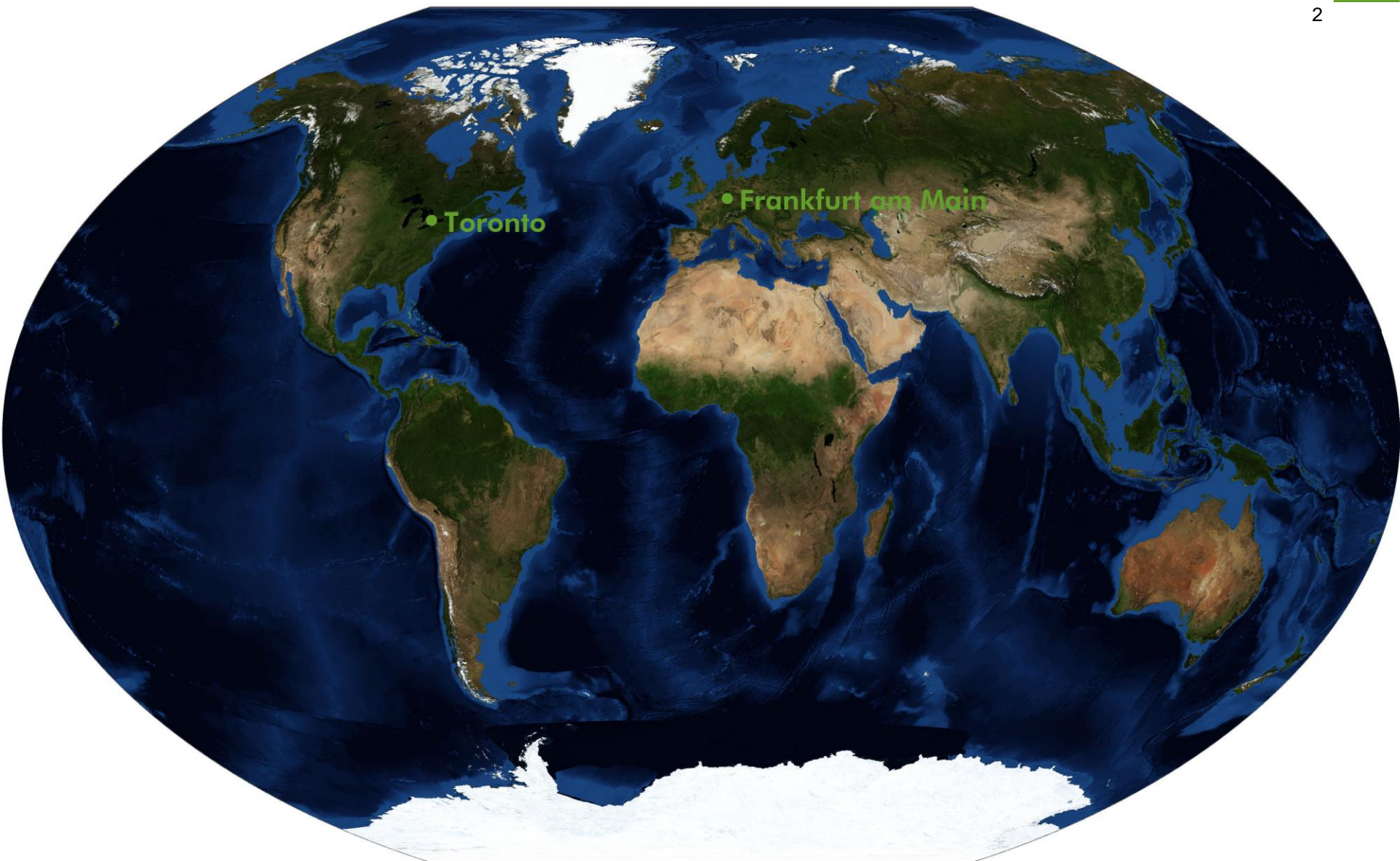
Local Solutions for Global Challenges

Toronto, Canada

March 22nd - 24th, 2011

Klaus Wichert





Ginkgo Maps ([www.ginkgomaps.com](http://www.ginkgomaps.com))

Stadt Frankfurt am Main – Environment Department



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Stadt Frankfurt am Main – Umweltamt

# Frankfurt am Main in figures



# Frankfurt am Main in figures

- 688,000 inhabitants
- 490,000 jobs
- 227 banks
- 2.2 million trade fair visitors
- 52 % green open space



Stadt Frankfurt am Main – Umweltamt

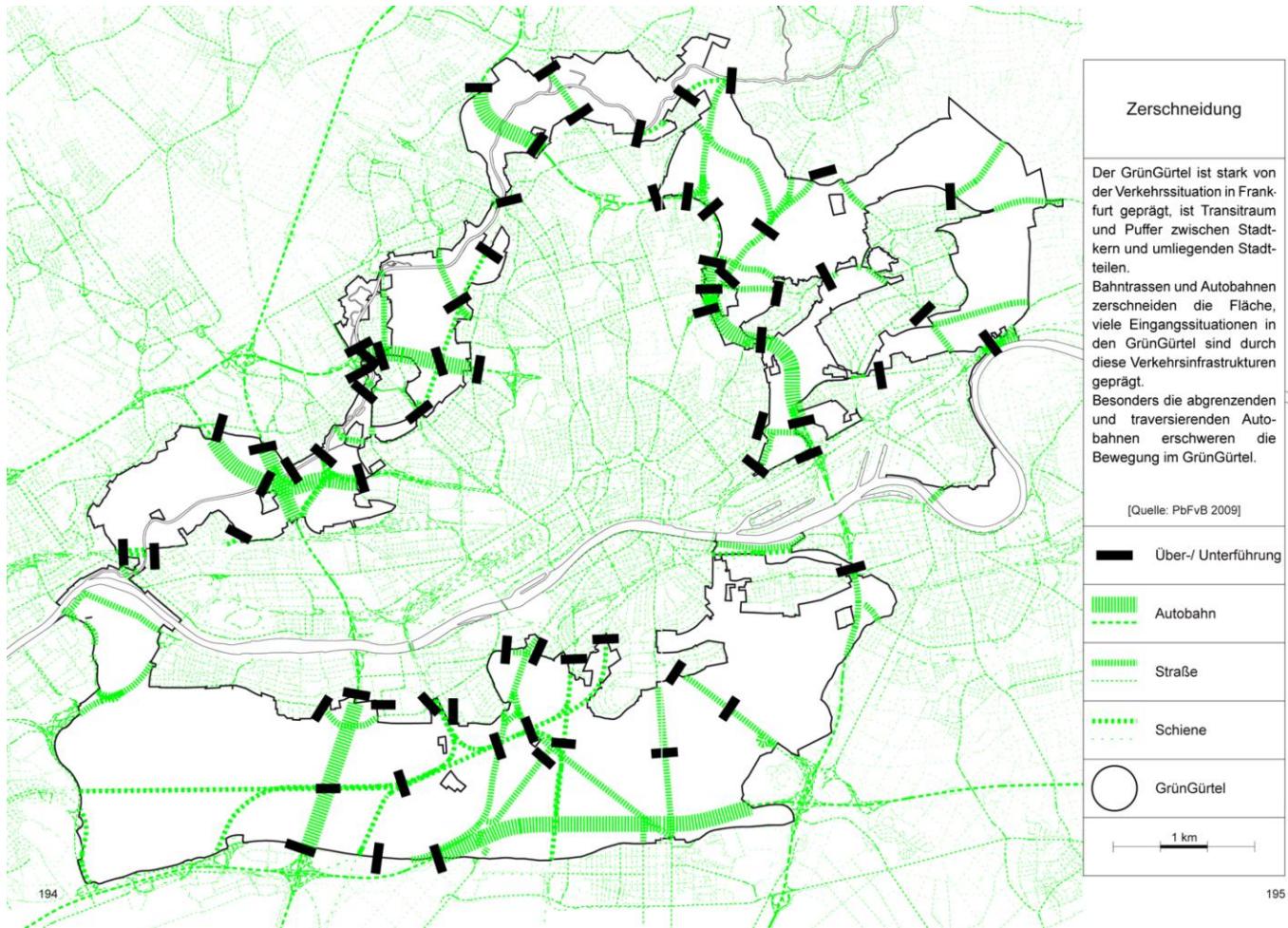
# Frankfurt`s GreenBelt



# Frankfurt`s GreenBelt



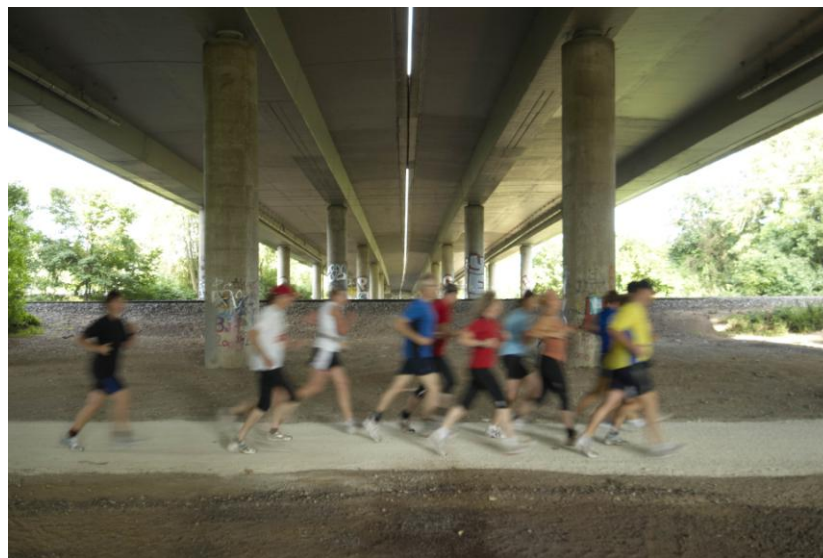
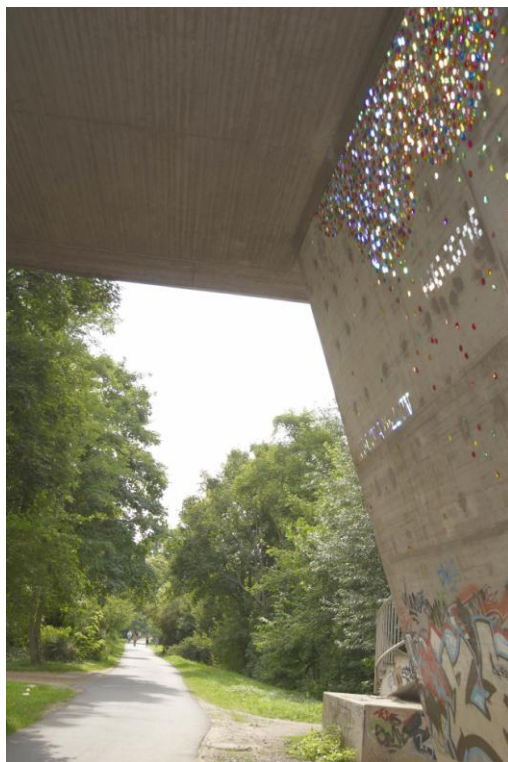
# Dissection of the GreenBelt





# Dissection of the GreenBelt

- 209 subways and footbridges, road and rail crossings





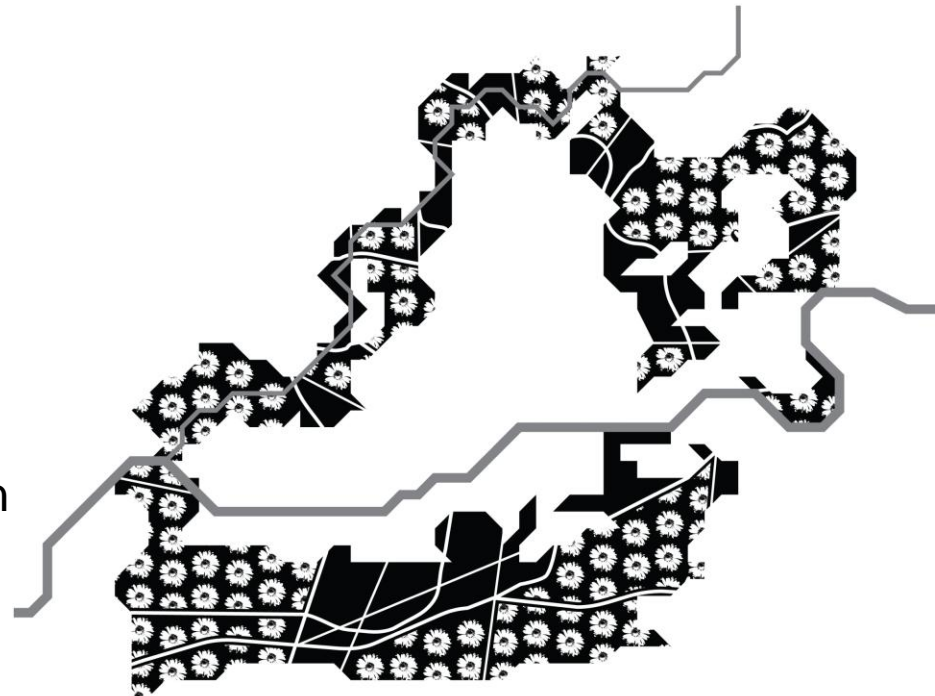






# The potential of dissection

- Target emphasis of individual areas
- Developing the dissection of the GreenBelt into a programmatic strength
- Reinforcing the qualities of the GreenBelt as an aesthetic area of recreation and discovery



# Infrastructure in the GreenBelt



# Roads



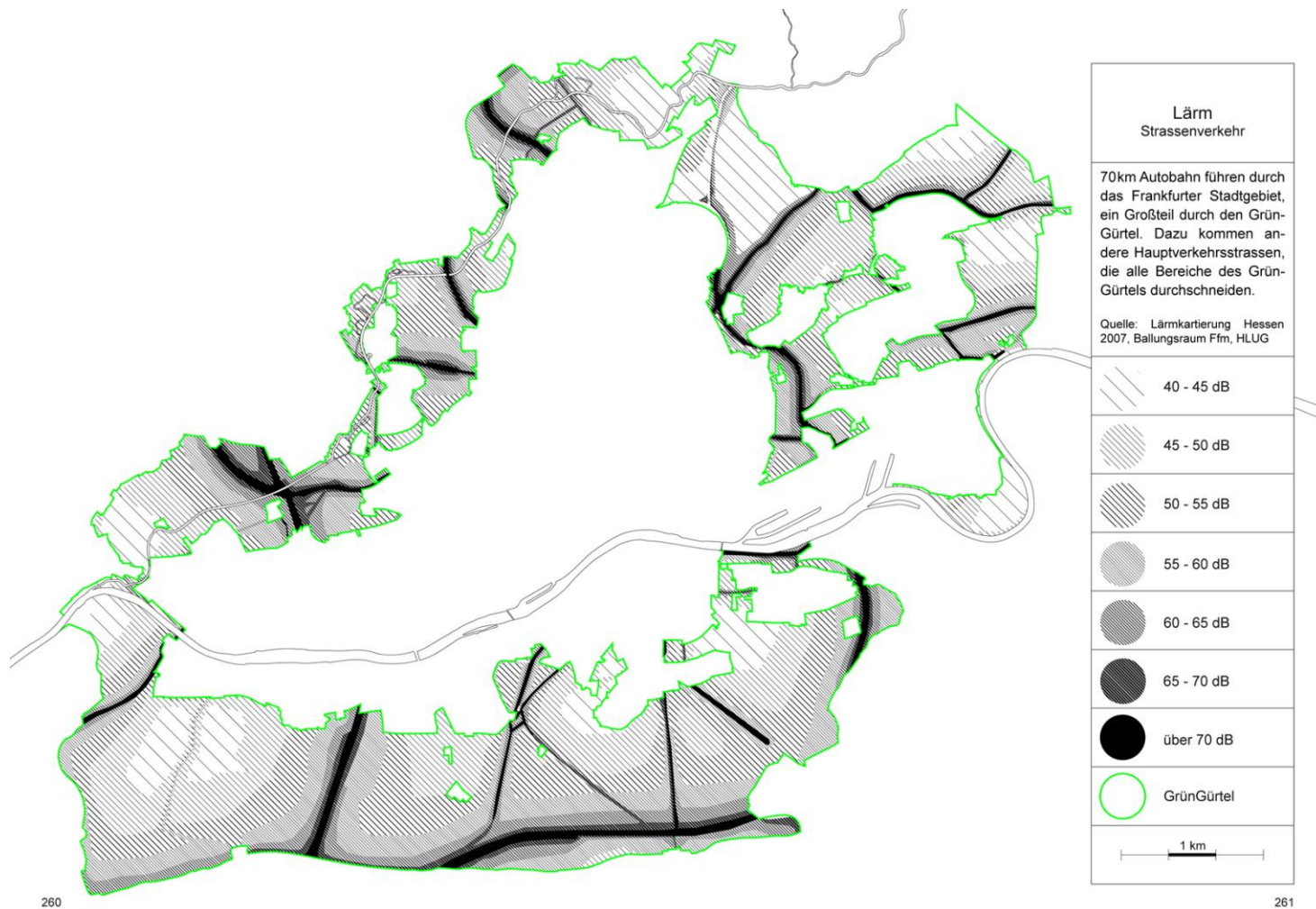


# Roads

- 335,000 inward commuters / 65,000 outward commuters daily
- 70 km of national motorways
- Air and noise pollution caused by motor vehicles



# Noise in the GreenBelt



260

261



# GreenBelt versus road-building

- Development abandoned (national thoroughfare in Fechenheim)
- Development modified (Leunastraße)
- Renaturing discussion (Bahnstraße in Schwanheim)
- Renaturing implemented (Höchster Weg, road is dismantled, cycle track retained)



# Railway lines



# Railway lines

- Frankfurt's main railway station, European transport hub, 1,730 trains daily
- Third largest passenger transport association, 660 million passengers
- 7 underground lines, 8 tram lines, 57 bus routes, 191 million passengers
- Noise pollution caused by rail traffic



# GreenBelt versus railway lines

- Plan for the western railway line adjusted



# Ports



# Ports

- Trimodal port in the Höchst Industrial Park
- Expansion measures on the edge of the GreenBelt
- Compensation achieved





# Airport



# Airport

- Largest airport in Germany
- 53 million air passengers; 2.3 million tonnes of freight handled
- 70,000 employees (largest workplace)
- 1,300 aircraft take off and land each day
- Flight movements to increase from 464,000 to 700,000 by 2020

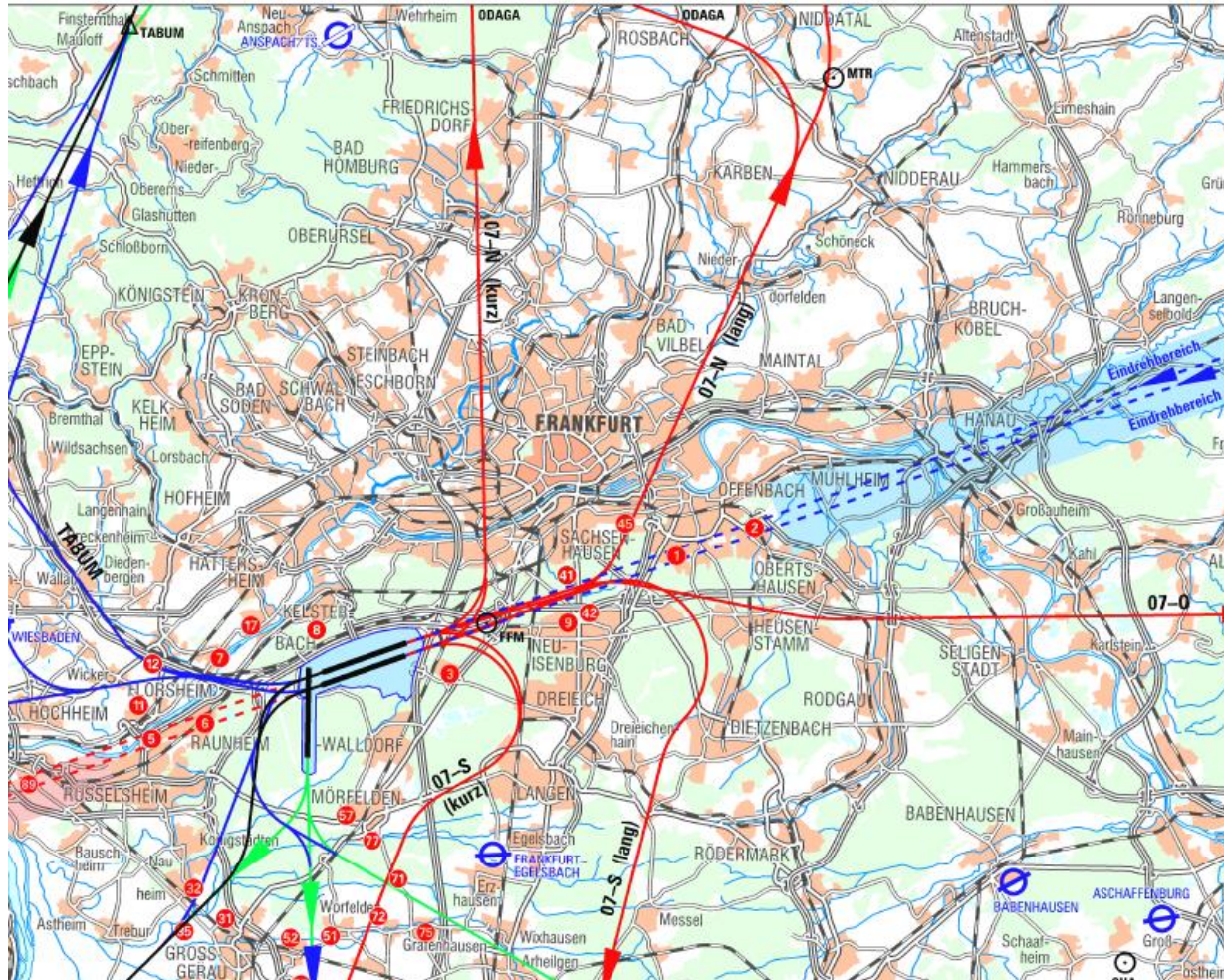


# GreenBelt versus airport

- New runway from October 2011
- Alternative plan for the GreenBelt was discarded
- High levels of aircraft noise pollution in the GreenBelt (municipal forest)



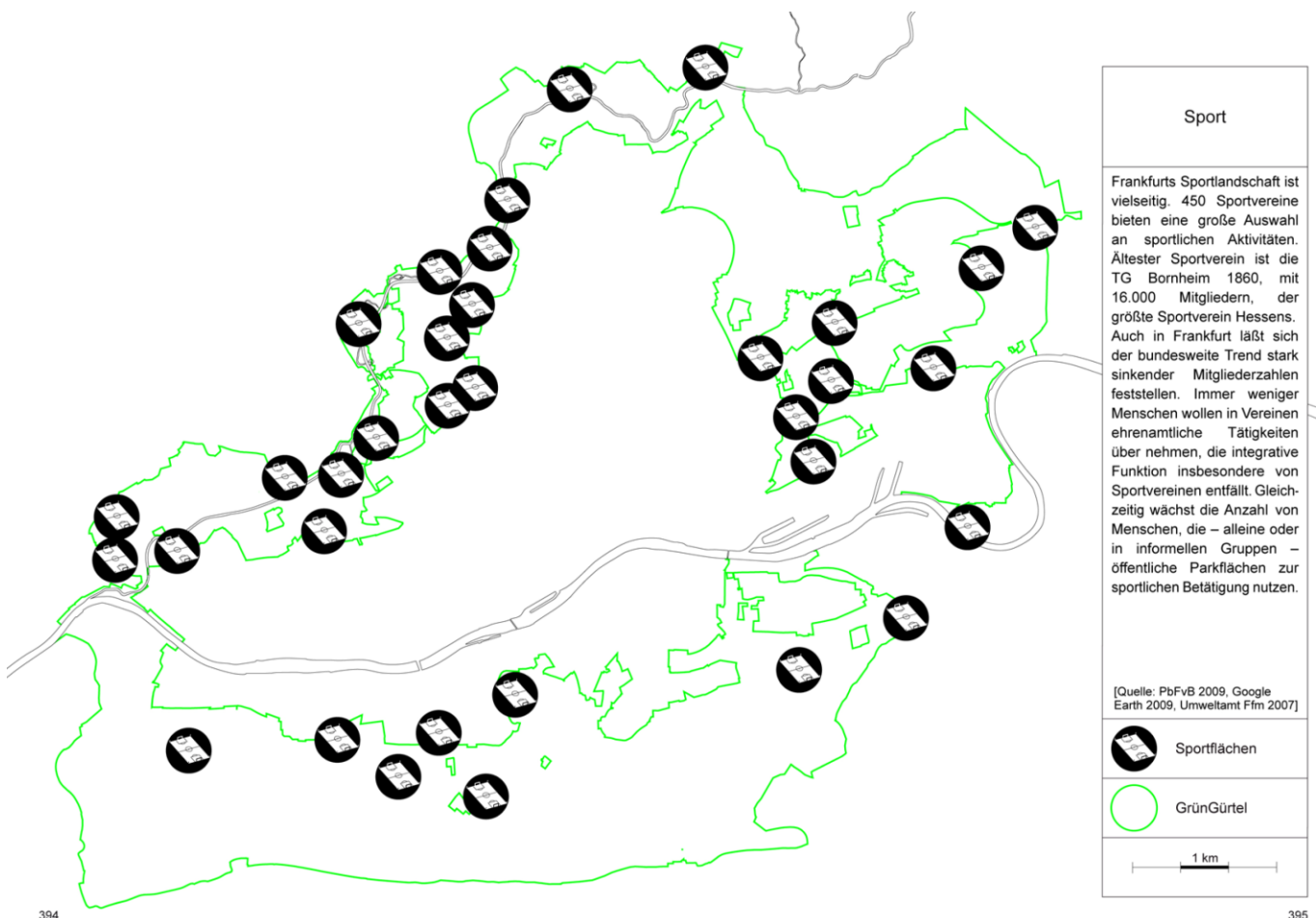
# Take-off routes



Deutsche Flugsicherung GmbH (DFS)



# Sports areas in the GreenBelt



394

395

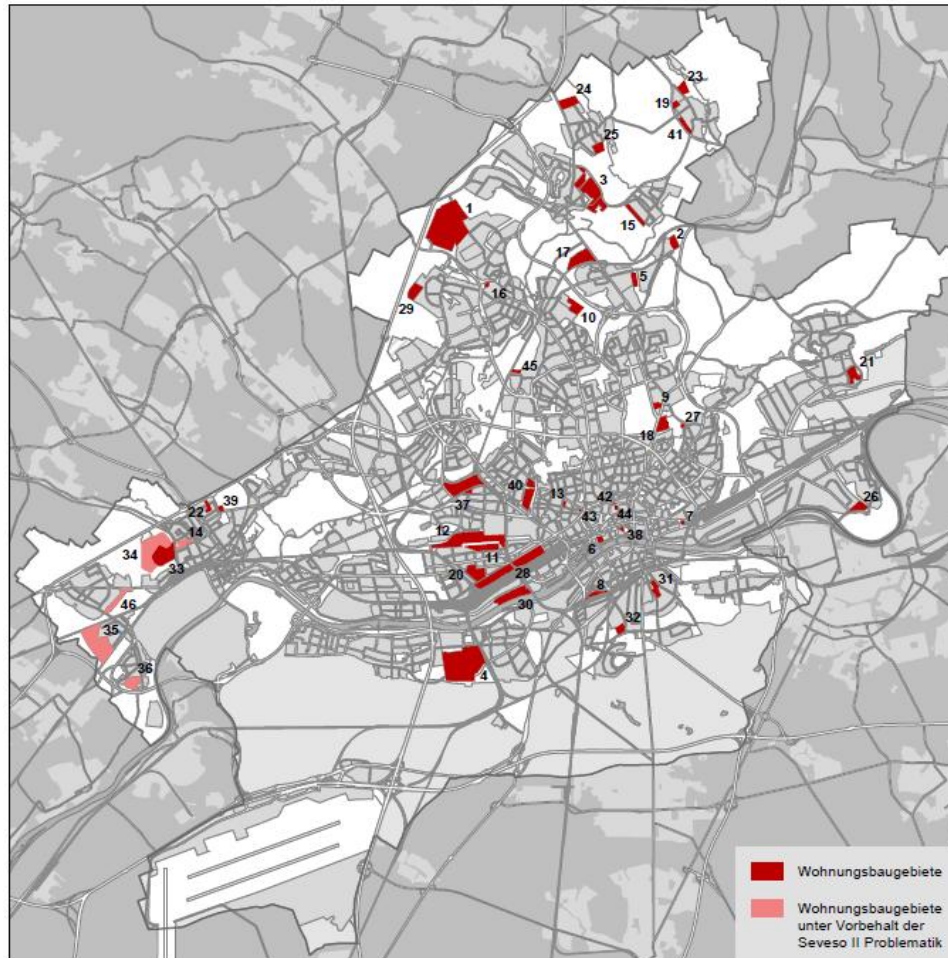


# Sports and leisure facilities

- Integral part of the GreenBelt
- No new facilities
- Existing facilities may be extended
- Risks: too many parking spaces, buildings, floodlights  
=> gradual loss of space



# Urban development



# Residential and commercial areas

- No loss of space through housing development
- New commercial areas were discussed but turned down





# Summary



# Summary



# Social facilities

- Facilities for elderly people, children and disabled persons in the GreenBelt have been discussed.
- Up-to-date: accommodation for the homeless in the Ostpark

