



Cities for Mobility

Workshop 3: Improve

Emission – based traffic control in Stuttgart

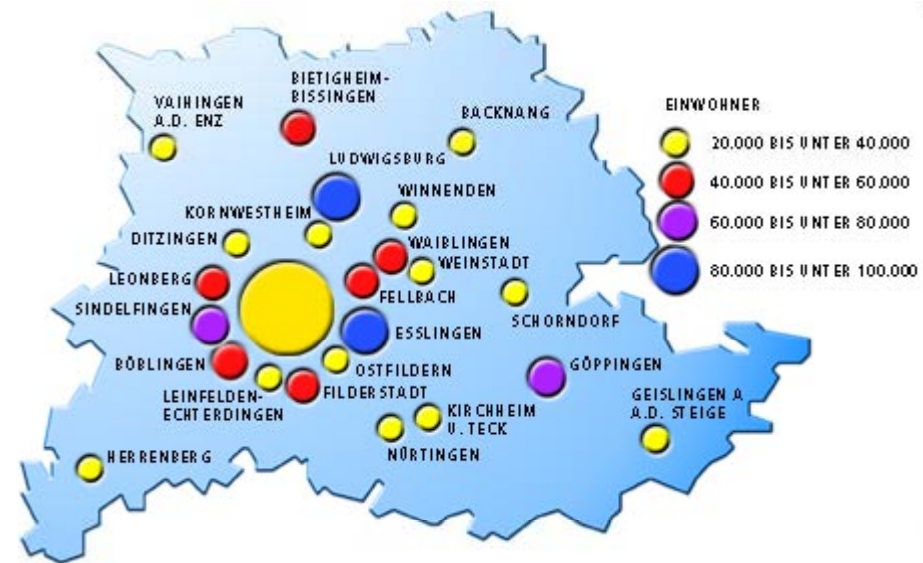




Stuttgart and the region

- **Inhabitants:** 2,7 Mio.
- **area:** 3.654 km²
- **Population density:** 732 EW/km²

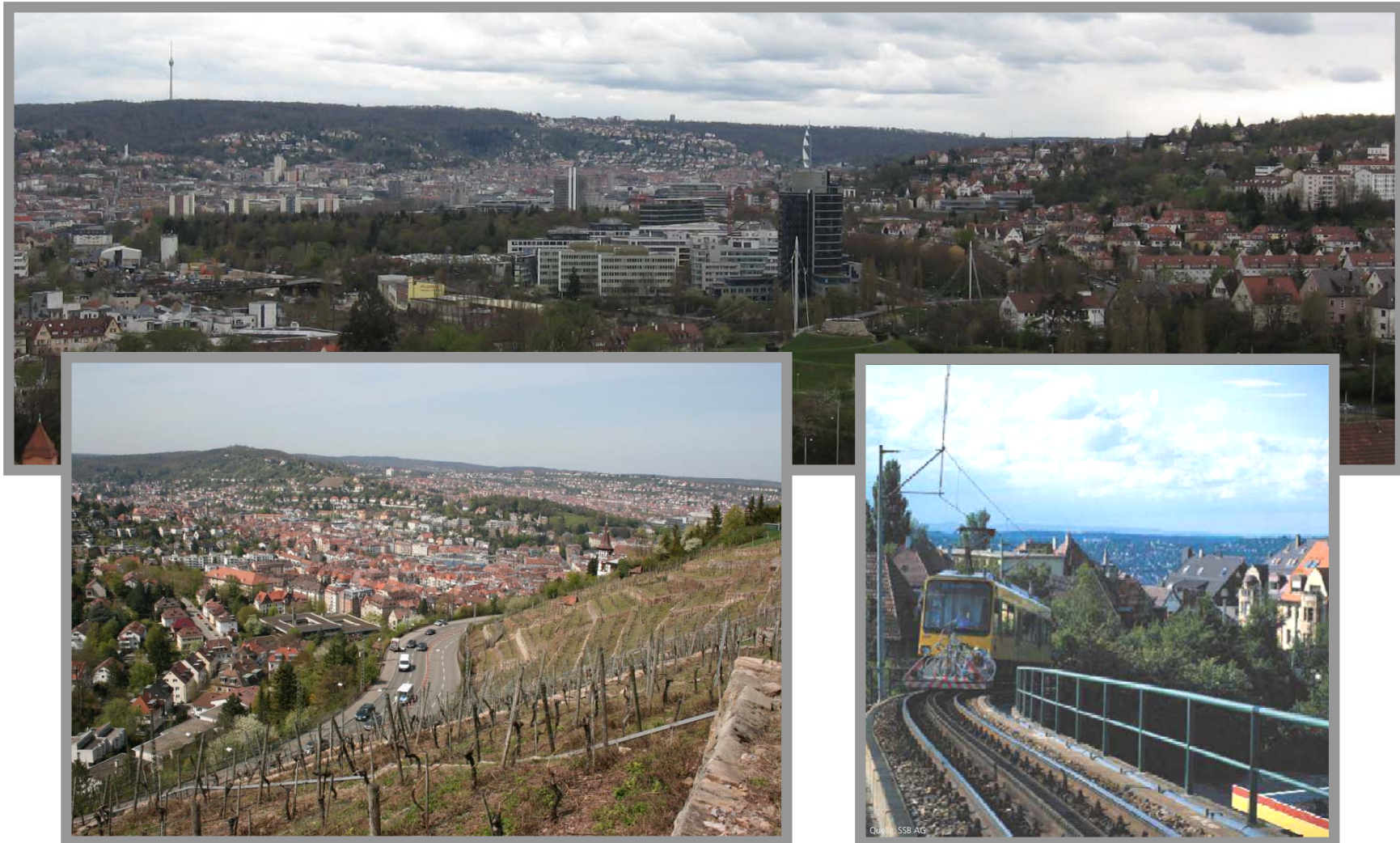
Comparison: München 461 EW/km²
Frankfurt 560 EW/km²



Traffic Data:

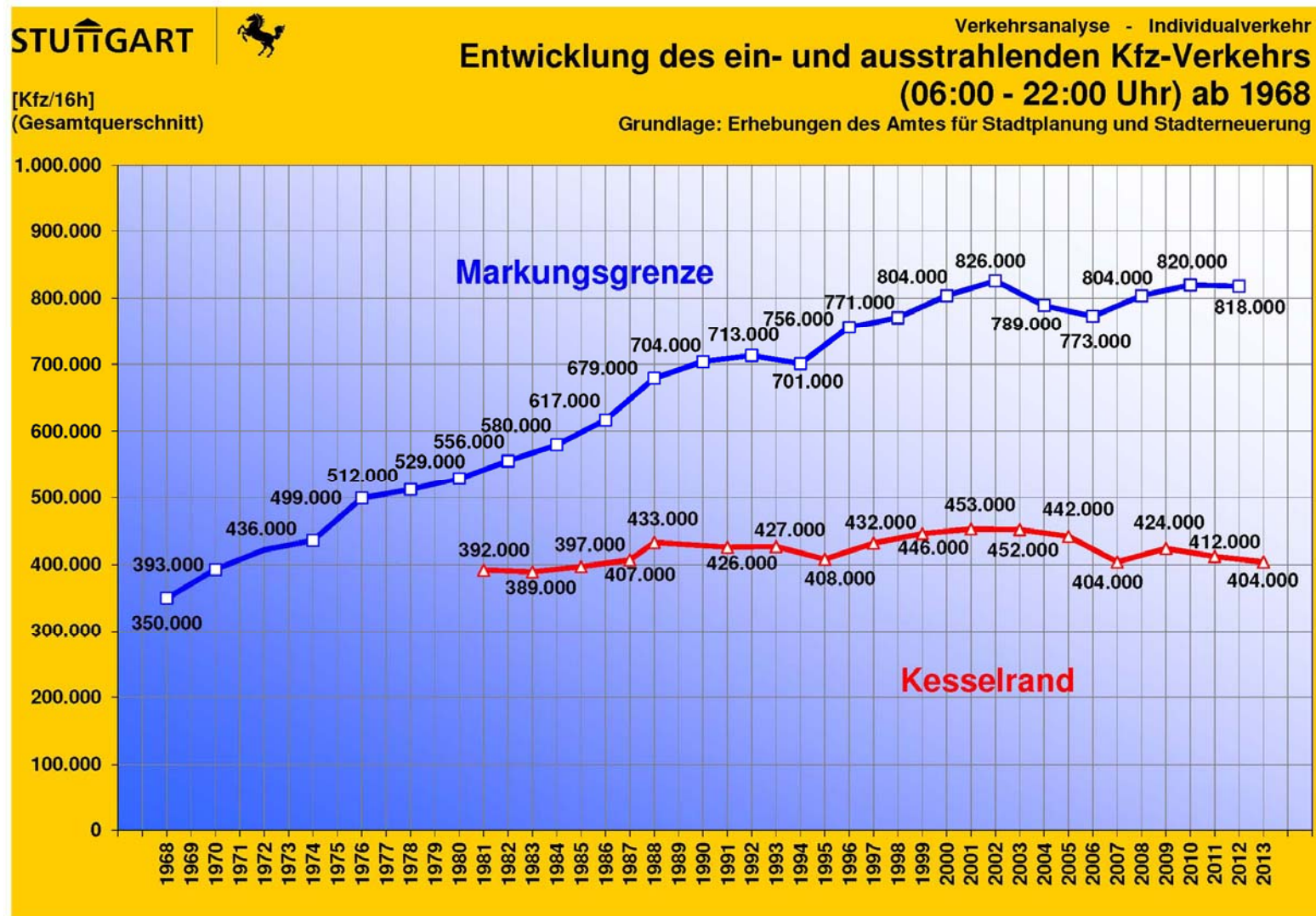
- 1.465 km roads (490 km main roads and 975 km in 30 km zones)
- 70 SSB lines, daily 400 busses & light rail vehicles
- 600 000 public transportation passengers every day

Stuttgart and its valley basin location





Incoming and outgoing traffic in Stuttgart



Integrated Traffic Management Center Stuttgart IVLZ





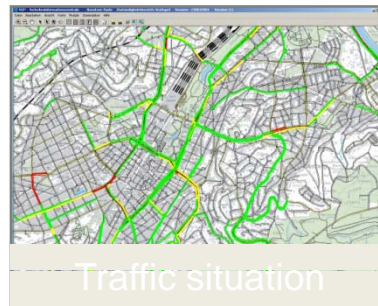
environmental traffic management



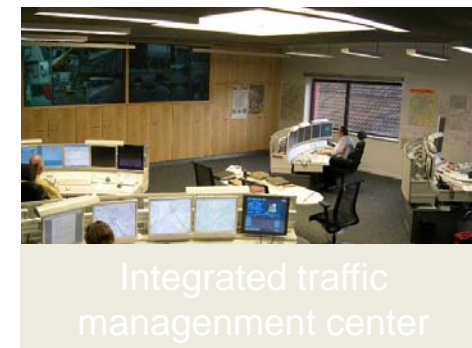
- continuity of traffic
- preventing traffic jams
- reduction of traffic jams

Emission based traffic management

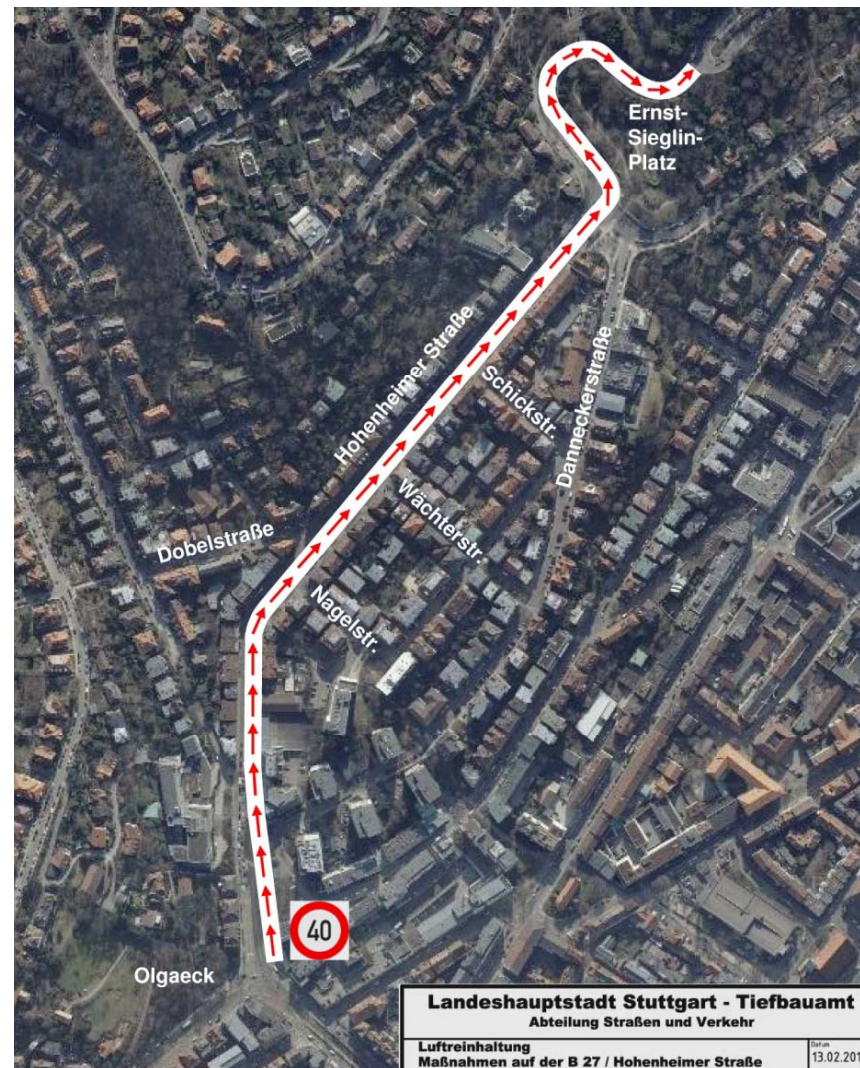
prognosis



scenarios

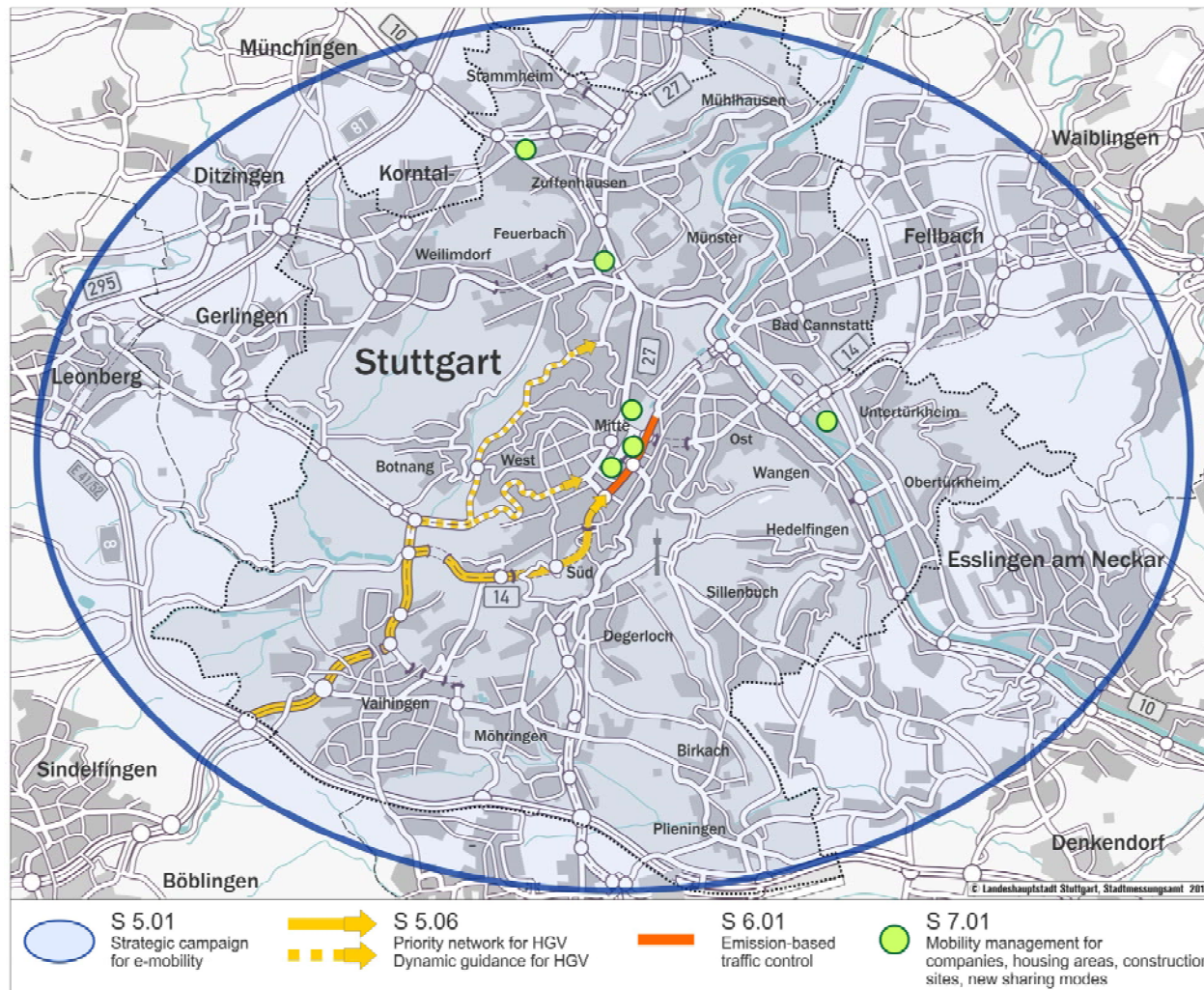


Test site: Hohenheimer Straße
(fixed reduced speed on a road with a gradient).





2MOVE2: Location of the Stuttgart measures



Measure: Emission-based traffic control





Emission-based traffic control in Stuttgart

The measure intends to develop exemplary a traffic control model and a test site for the inner urban area as to what extent the reduction of stop-and-go traffic would help the traffic flow and the continuity of traffic by also reducing traffic induced air pollution and emissions.



Objectives:

- **Improve traffic flow**
- **Reduce stop-and-go traffic**
- **Considering public transport, pedestrians and cyclists**
- **Avoid any negative impacts for these transport modes**
- **No undesired traffic movements in residential areas**
- **Reduce/adapt speed**
- **Reduce traffic induced air pollution and emissions**
- **Maximize reduction of emissions through traffic control (NOx by 10%, PM10 by 15%)**
- **Increase of public awareness for the measure**

Test site 2MOVE2:

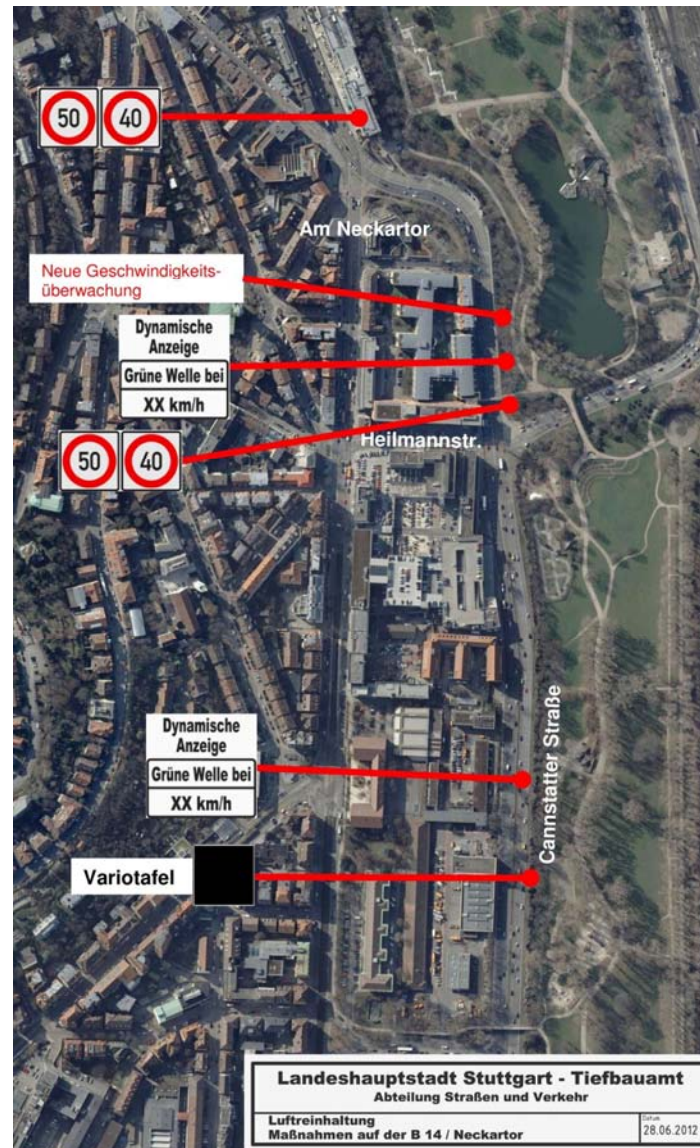




Measure: Emission-based traffic control



Test site: Cannstatter Straße



Test site Cannstatter Straße:



Unpredictable event



accident with an aluminium truck

Thank you for your attention

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