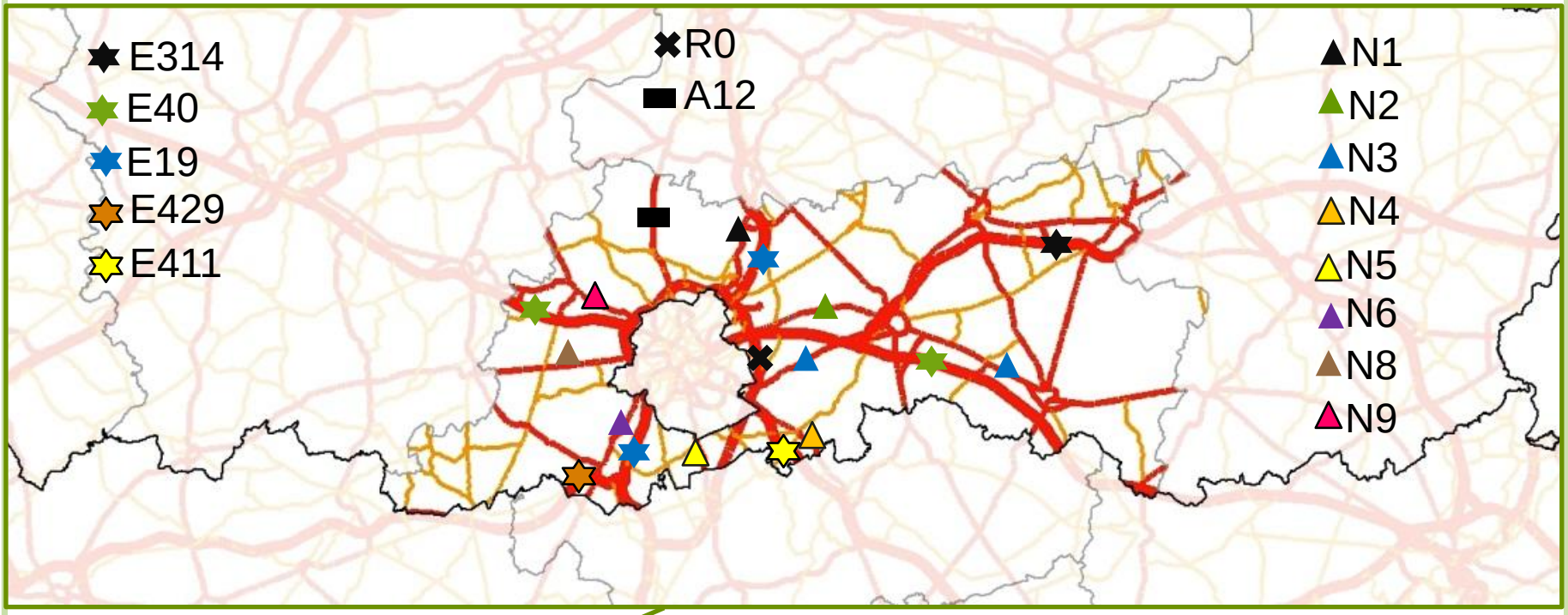
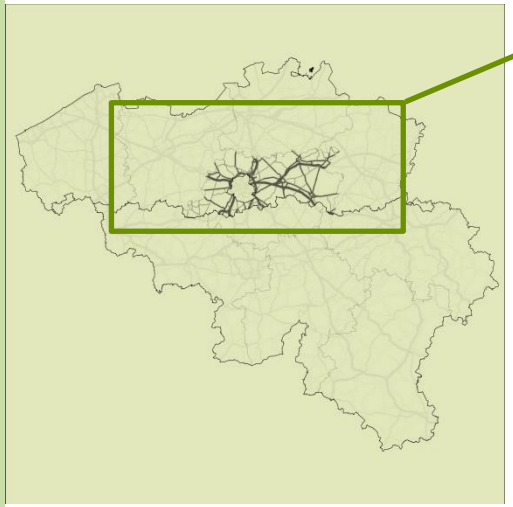
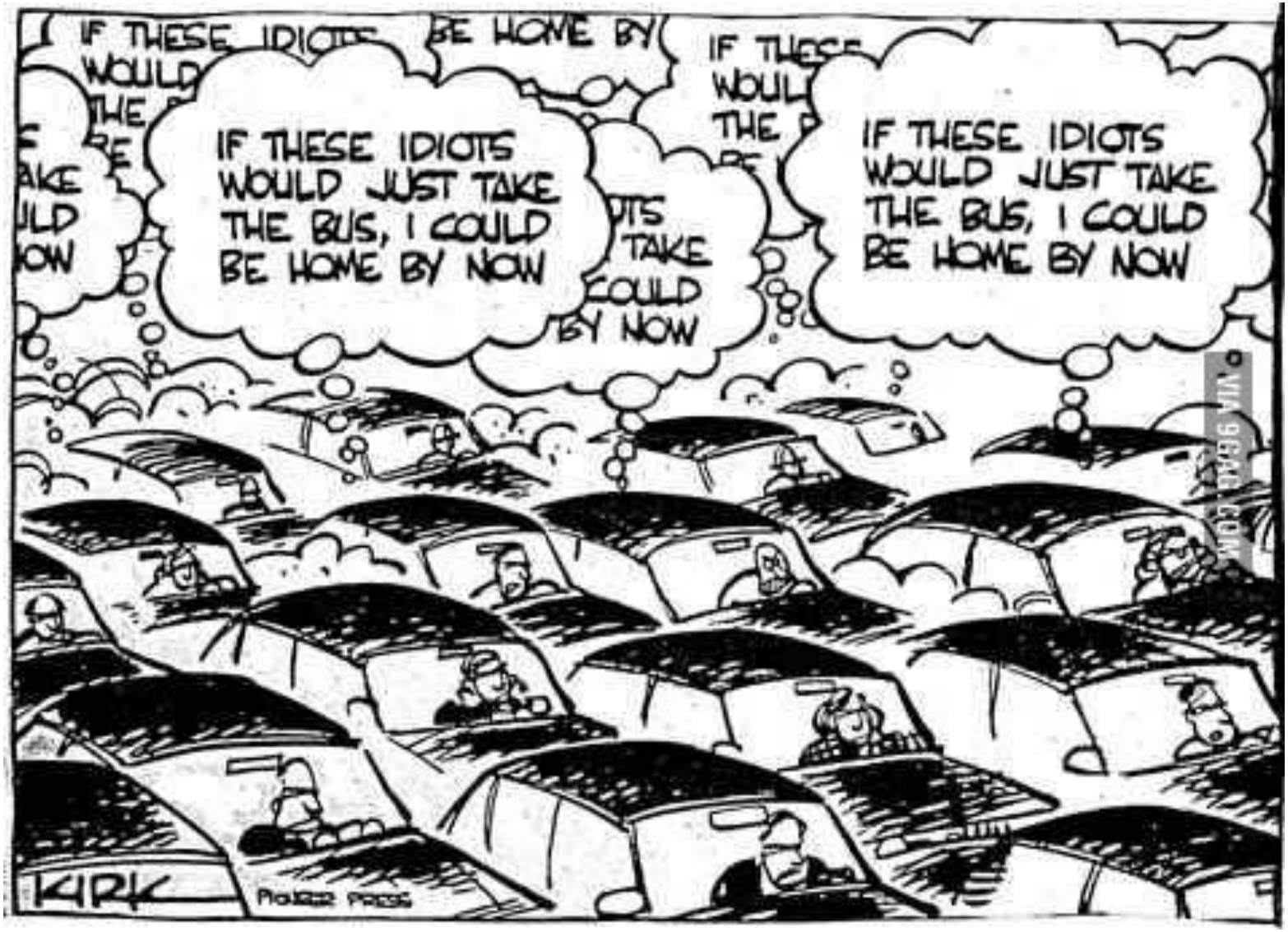
SMART MOBILITY

Traffic density and traffic congestion as major issue in Flemish Brabant





Location Flemish Brabant


IF THESE IDIOTS WOULD JUST TAKE THE BUS, I COULD BE HOME BY NOW
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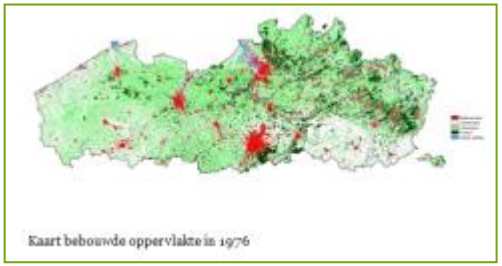
KIRK

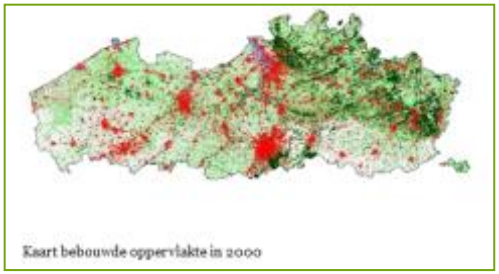
INRIX TRAFFIC SCORECARD 2015

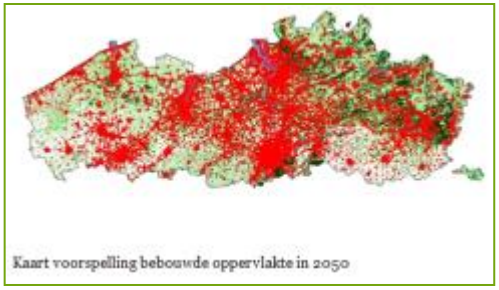
	Average Hours Wasted in Traffic in 2015
1. London Commute Zone, UK	101
2. Stuttgart, Germany	73
3. Antwerp, Belgium	71
4. Cologne, Germany	71
5. Brussels, Belgium	70
6. Moscow, Russia	57
7. Karlsruhe, Germany	54
8. Munich, Germany	53
9. Utrecht, Netherlands	53
10. Milan, Italy	52

- **Brussels region over last years continuously in top 5 worldwide (Brussels n° 1 in 2013&2014)**
- **2015: the U.S. had the worst congestion, with the average commuter spending nearly 50 hours in traffic in 2015. Belgium ranked second with 44 hours.**

Explanations


Kaart bebouwde oppervlakte in 1976


Kaart bebouwde oppervlakte in 2000


Kaart voorspelling bebouwde oppervlakte in 2050

- High population density, ranked 10th in the world.
- More than half of the 650,000 people employed in Brussels live outside city limits.
- Around half of those commute into the city by car, a higher proportion than in most European cities.
- Still growing built up area (& urban planning initiatives that up to now favoured car infrastructure)
- Tax system that encourages company cars

AMBITIONS CONCERNING MODAL SPLIT

2014: 20/80

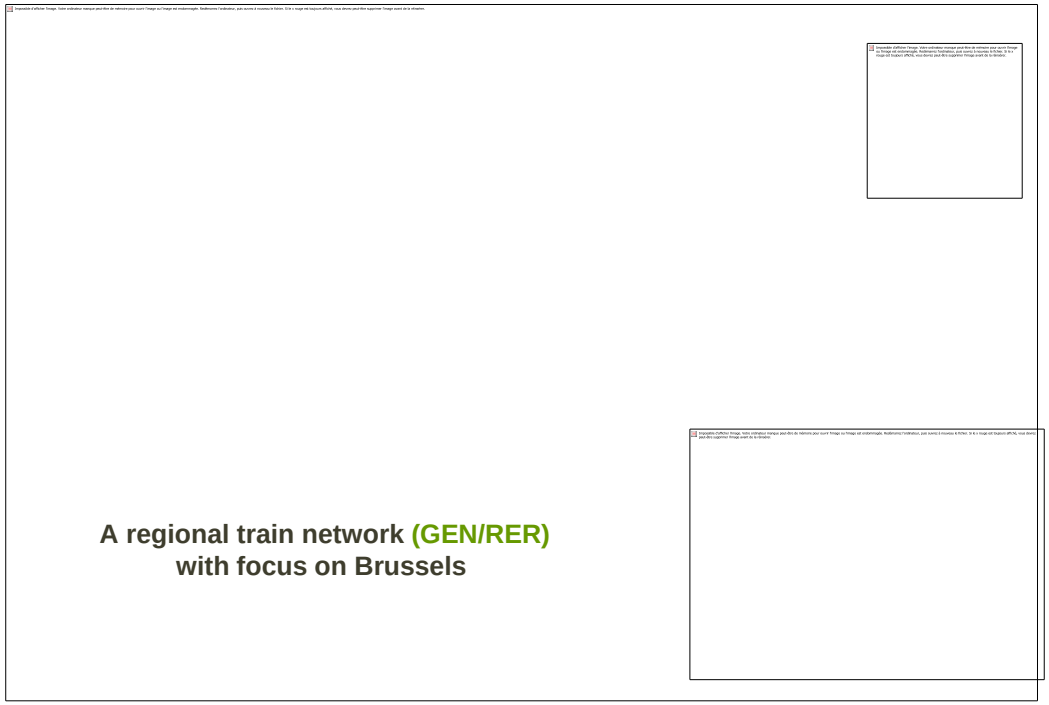
2020: 40/60

ACTIONPOINTS VLOT VLAANDEREN

Cycle facilities

ACTIONPOINTS VLOT VLAANDEREN

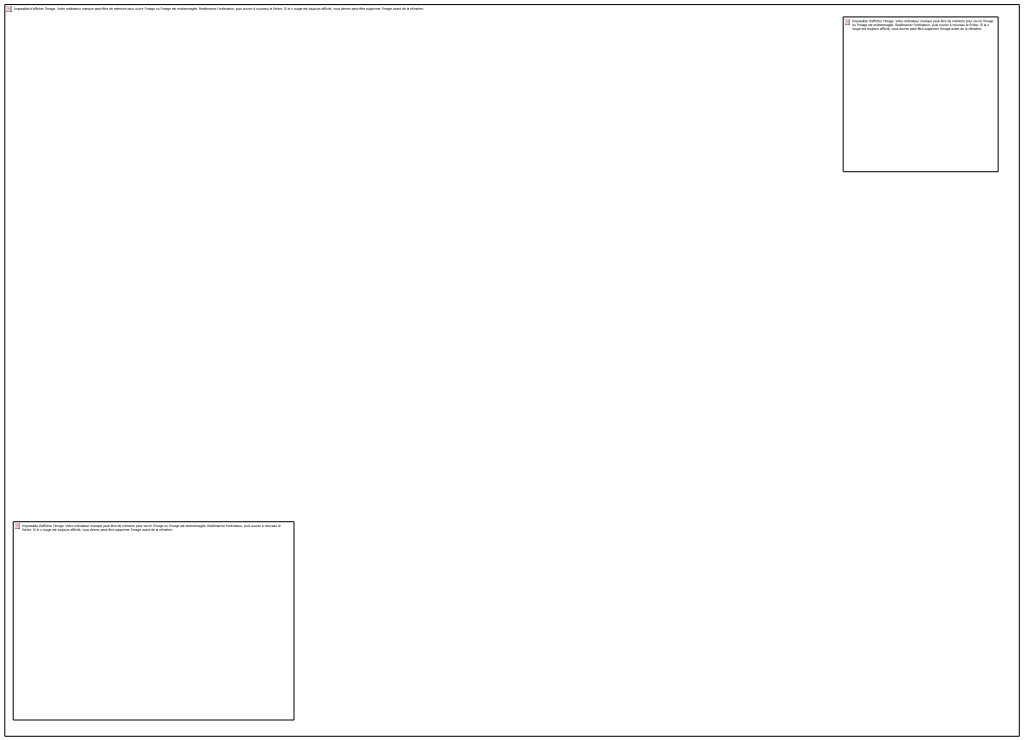
Train network



A regional train network (GEN/RER)
with focus on Brussels

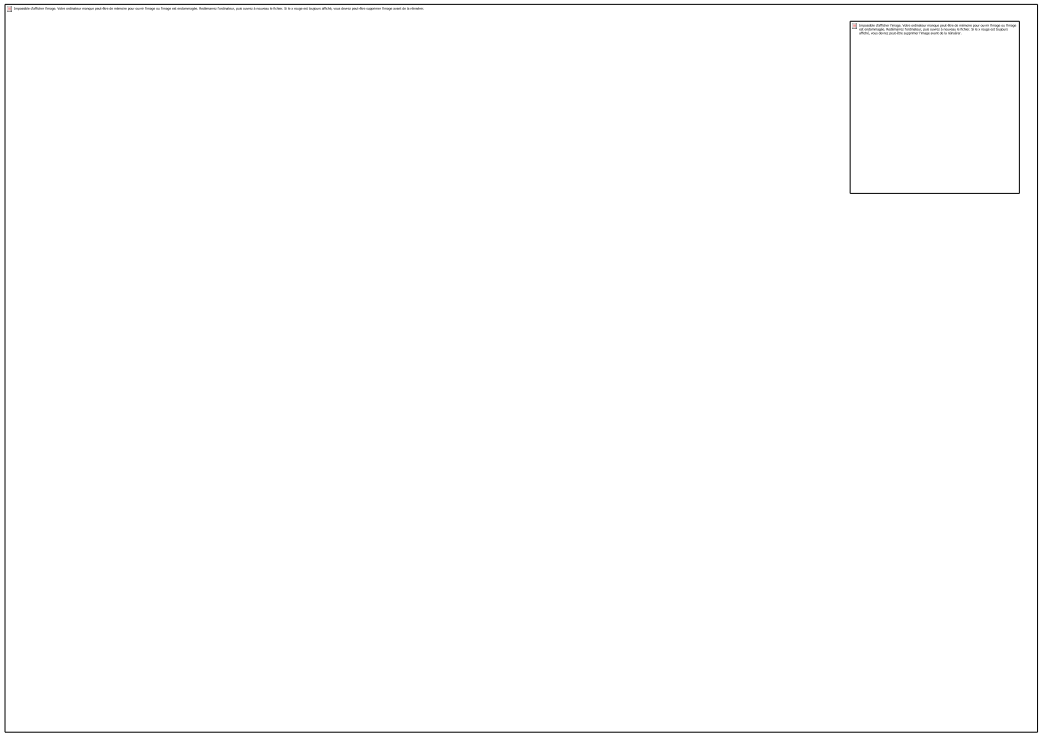
ACTIONPOINTS VLOT VLAANDEREN

Additional tramways



Actionpoints Vlot Vlaanderen

Optimization Brussels Ring



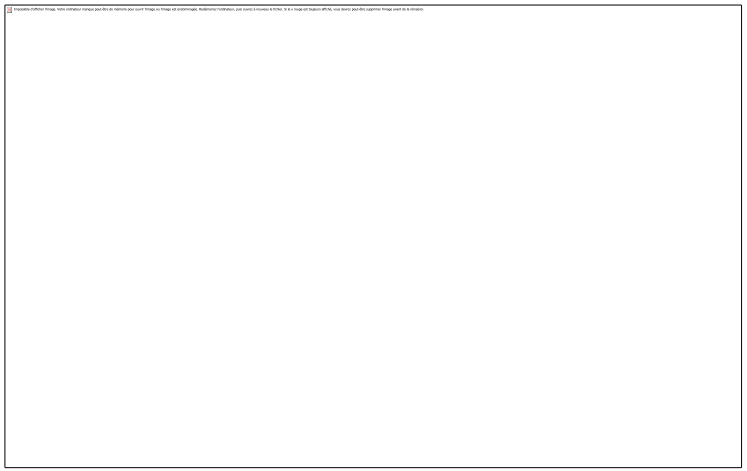
SMART MOBILITY

- Sensitize employers and employees (mobility management at business level)
- Integration of tariffs and ticketing (Mobib card as a first step)
- Smart tax measures (flex income plans, with mobility budget, congestion charge …)
- High quality public transport, closely linked with spatial planning
- Technological progress: traffic flow management, intelligent speed adaptation …)

SMART Logistics

- **Clustering of product flows (horizontal collaboration)**
- **'VLAAMS BRABANT MULTIMODAAL' : website promoting modal shift, including inland navigation (over water)- and railtransport; e.g. AB Inbev**

ANPR cameras



- ANPR cameras: Automatic number plate recognition allows smart steering of traffic: already in use for speed control and in several cities to reduce through car traffic in residential streets

Silent deliveries

- **Silent deliveries: 5 departmentstore chains invested in silent loading and unloading and decided to deliver mainly outside rush hours**

Vehicle platooning - self driving trucks

- **Platooning**: trucks automatically follow one another
- On highways a group of vehicles “**follow the leader**” and pass steering, braking and acceleration control to the lead vehicle
- Technology used: GPS, wifi & radar
- Testdrives in Belgium: beginning of April with positive result
- Platooning can reduce fuel use by up to 15%, prevent human error causing accidents and reduce congestion

Route coach

- App launched in the summer of 2014
- Inhabitants registered their daily trips and transportation mode
- Resulted in dynamic maps supporting mobility policies.
- Route Coach also advices on mobile lifestyle changes. You learn how to economize on time, calories, emissions.