



Intelligent Transport Systems

DI Hans Fiby www.its-viennaregion.at





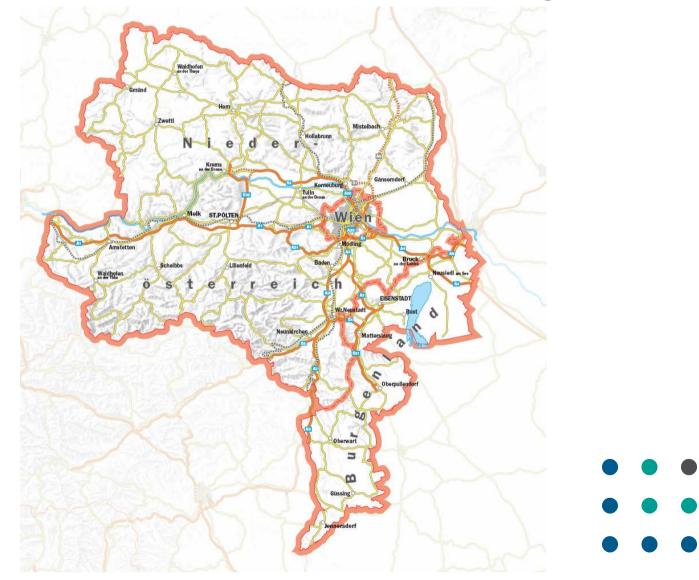




Vienna Region

Austrian provinces: Vienna, Lower Austria, Burgenland







Project Design

Independent project

- Integrated in the public transport association of the Vienna Region
- Steering committee (all project partners)
- Project duration 2006 2009

Funding

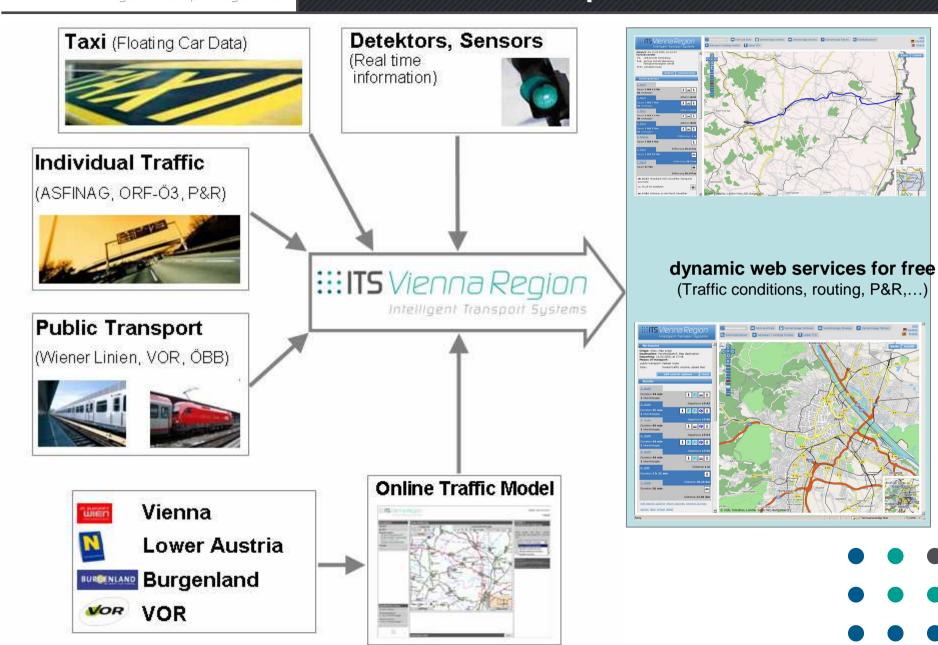
- approx. 1.000.000 € / year
- additional Austrian and EU research programs





Intelligent Transport Systems

Basic Concept





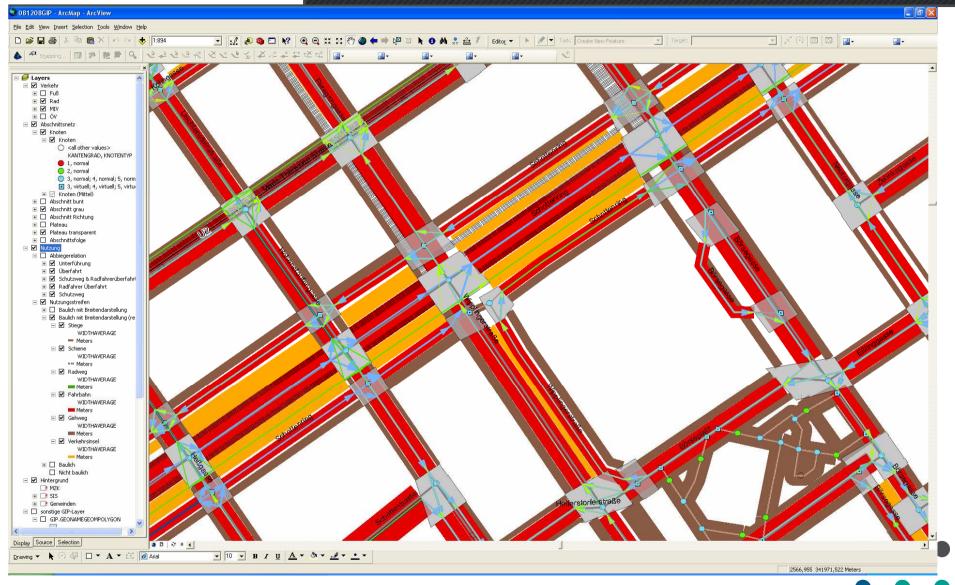
Reference system

- One common network for
 - ITS Vienna Region
 - Traffic administration of Vienna
 - Traffic administration of Lower Austria and Burgenland
 - Integrated traffic network of Steiermark
 - Detection of traffic signs in Carinthia
- Common basic data model and software development
- Decentralised update
- E-Government applications collect incident records for the traffic management



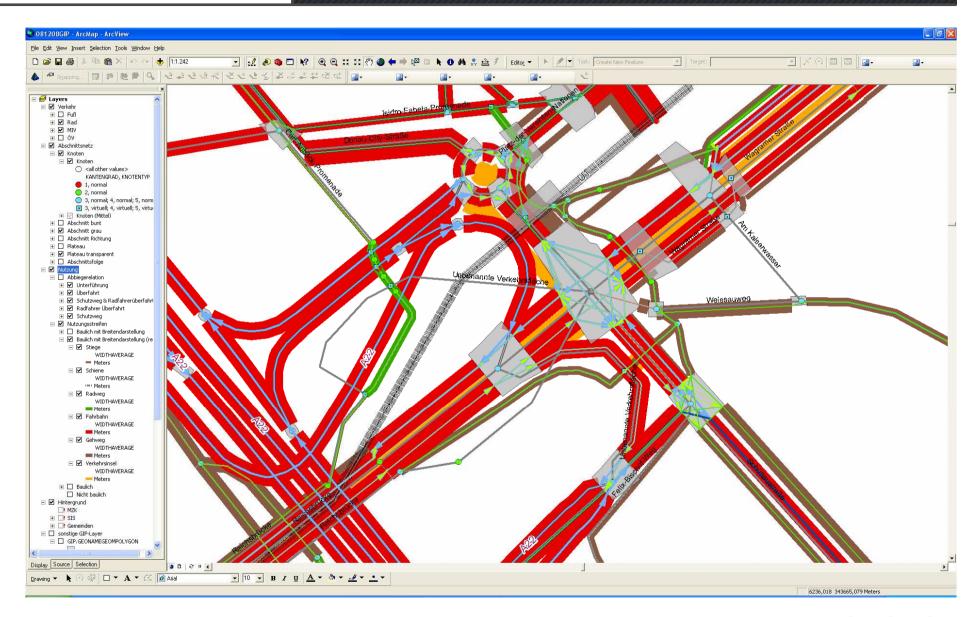
:::ITS Vienna Region







GIP Screenshots



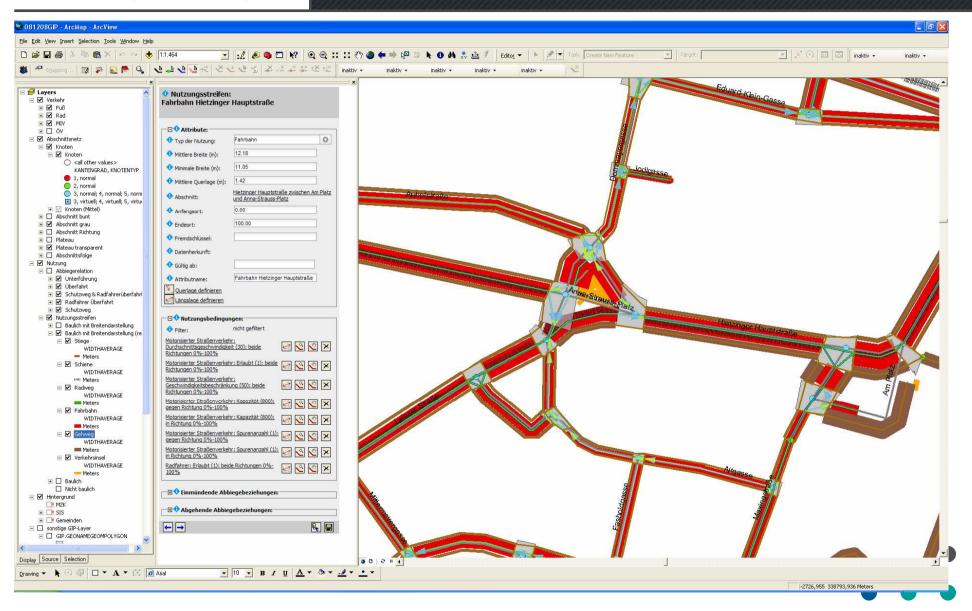






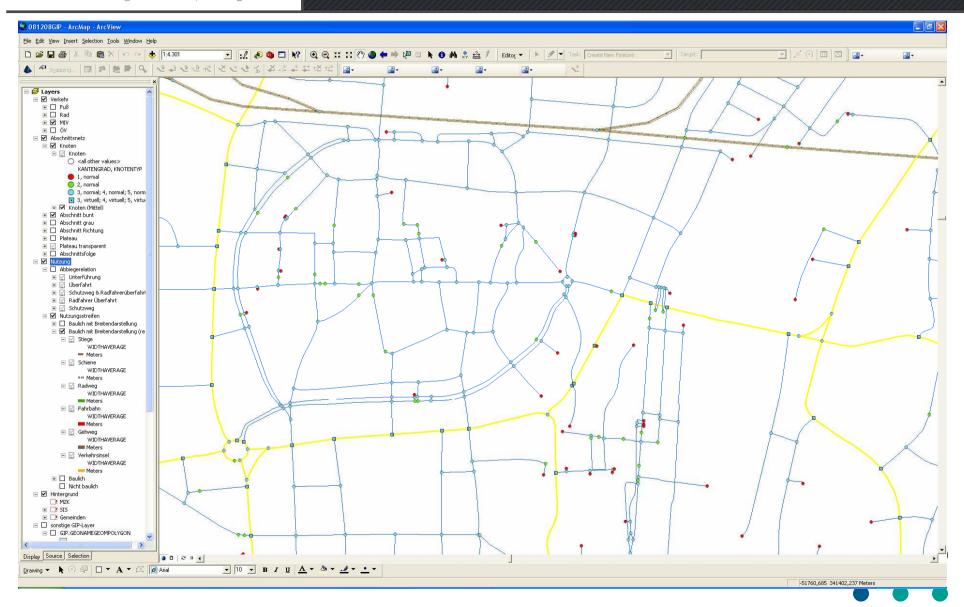


GIP Screenshots



:::ITS Vienna Region

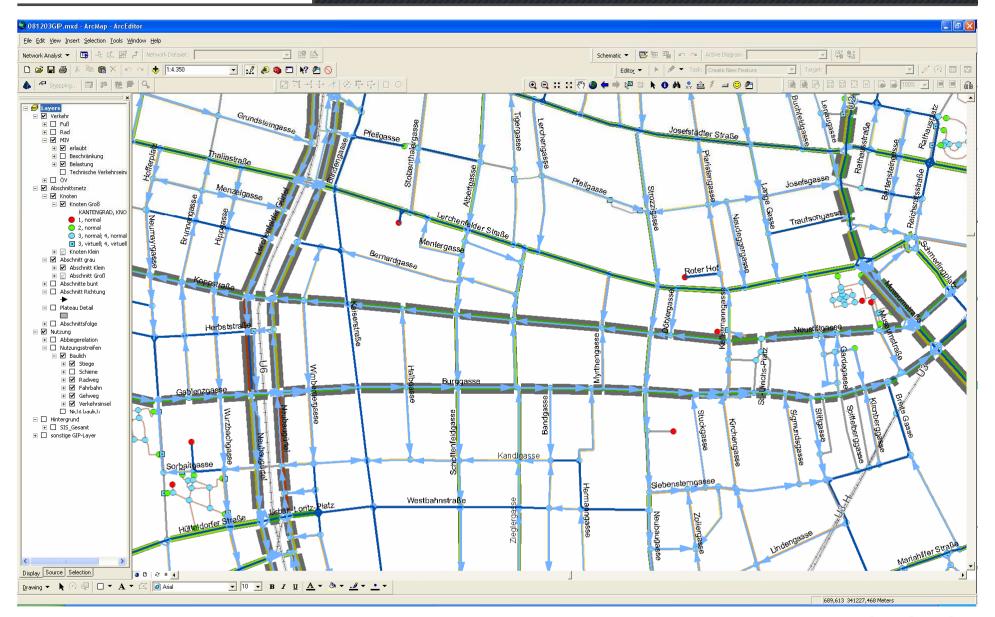
GIP Screenshots





GIP Screenshots





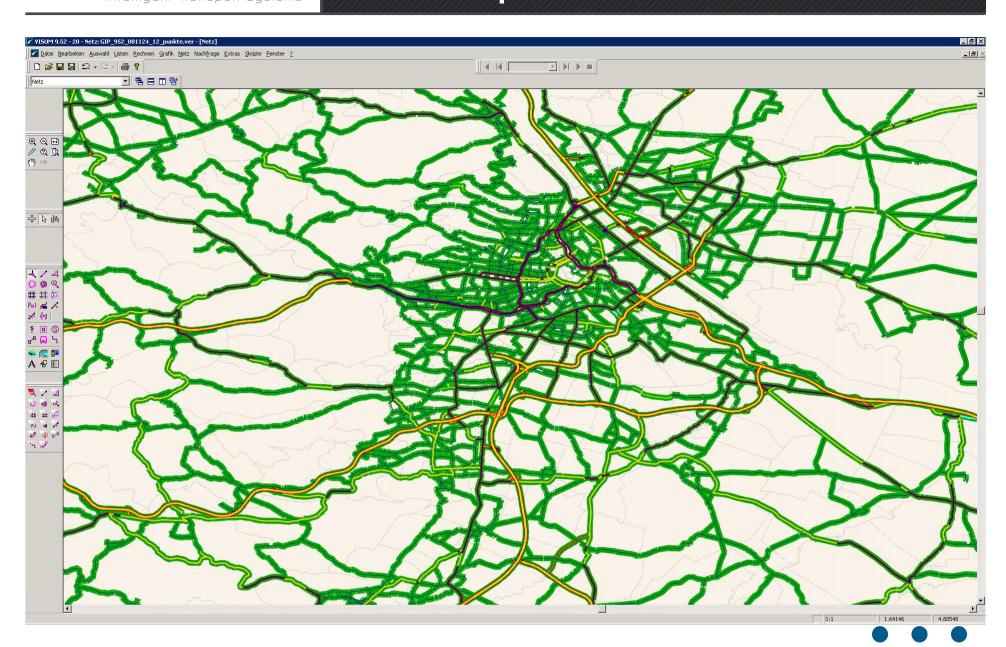








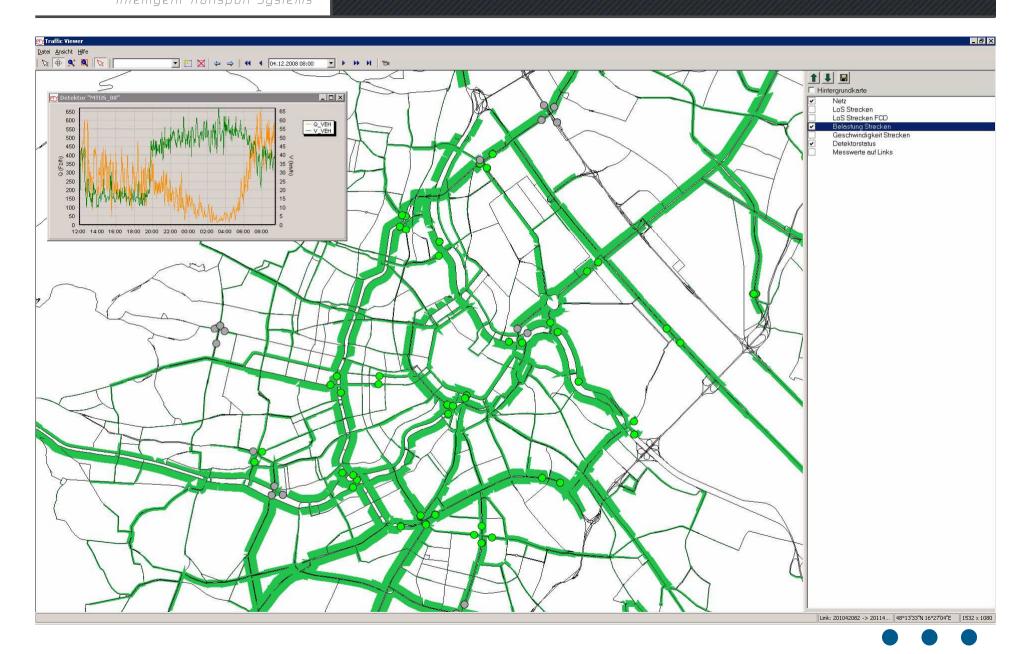
GIP Export VISUM





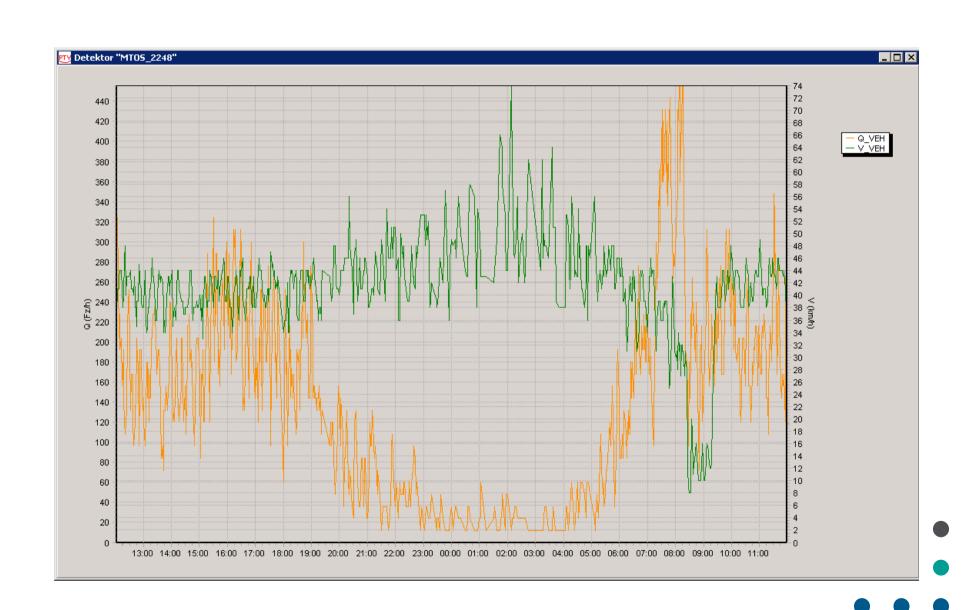
Detector Vienna





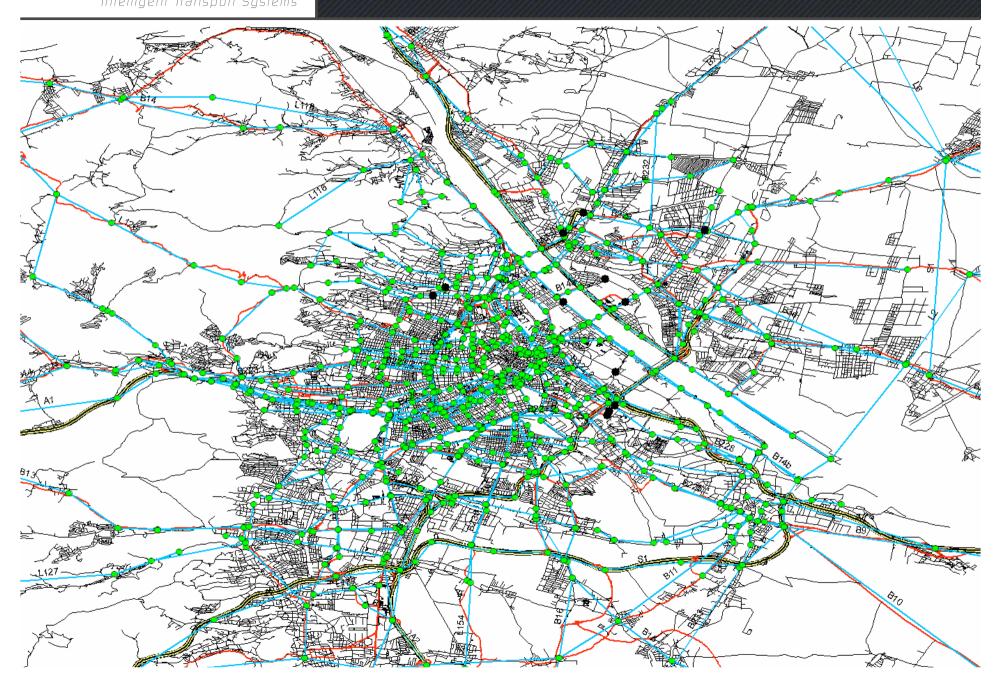


Detector data: Q, V



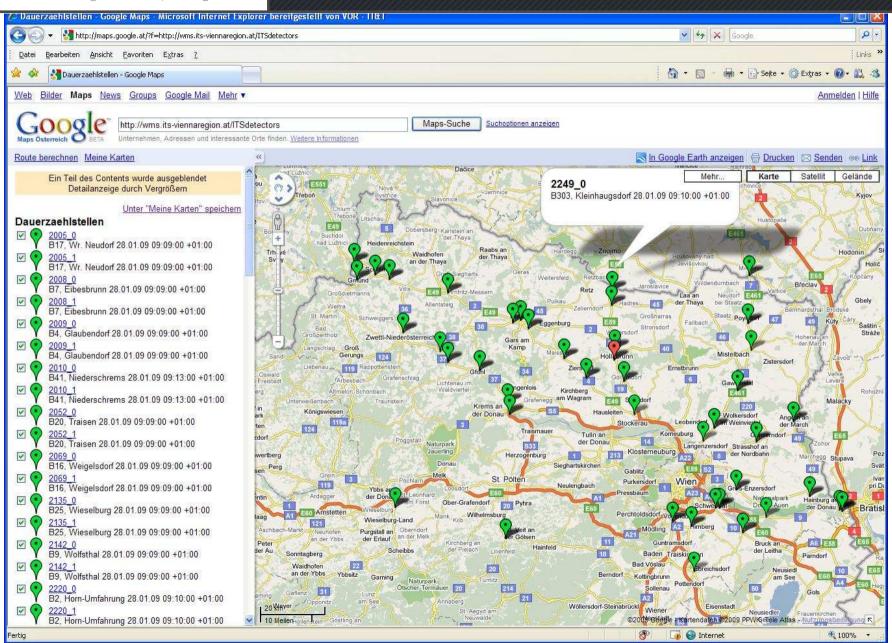


Count locations Vienna



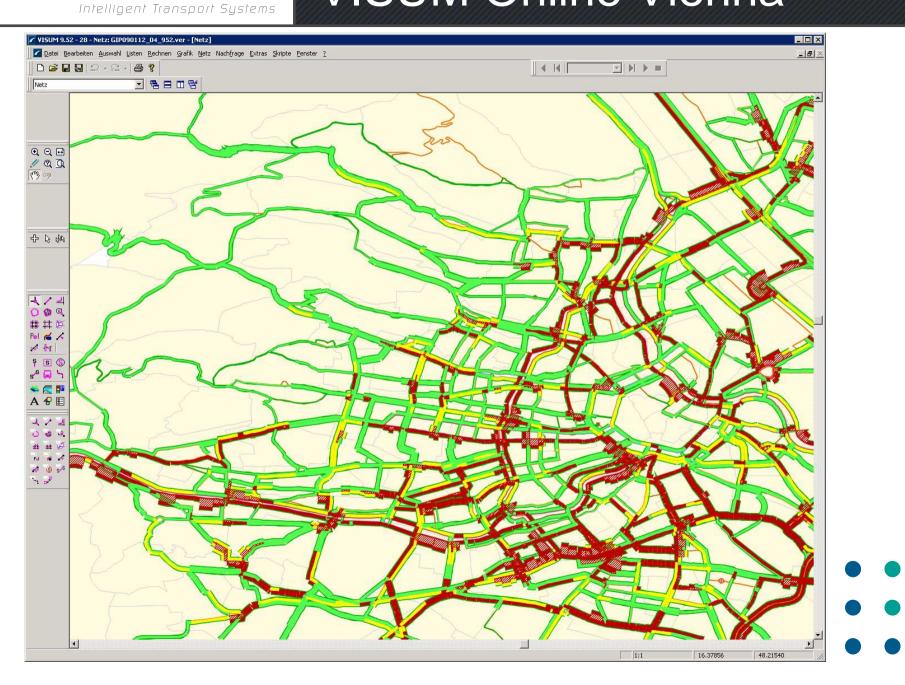


Count locations Lower Austria



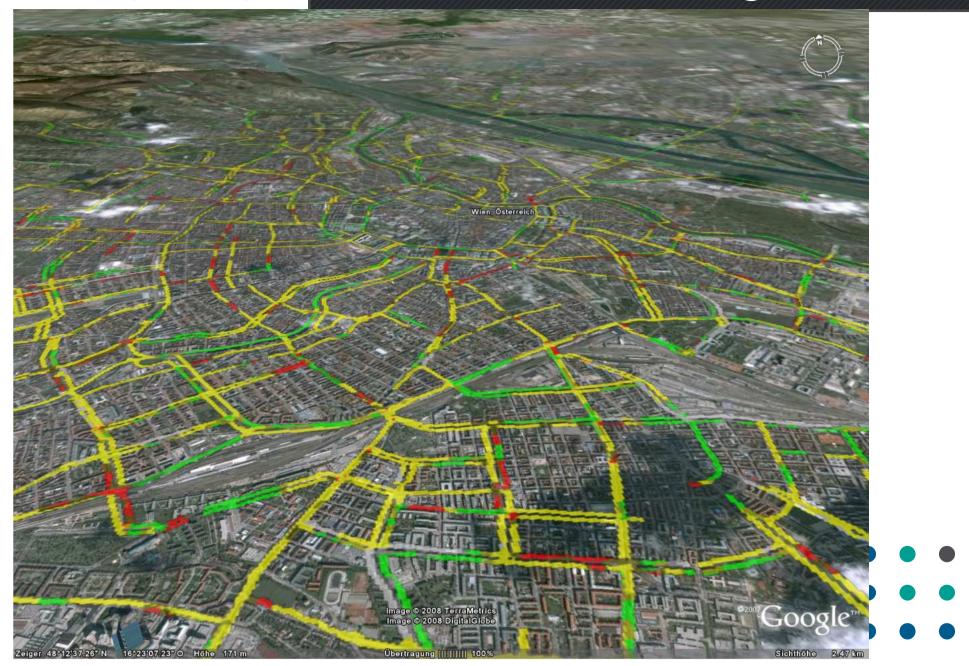


VISUM Online Vienna



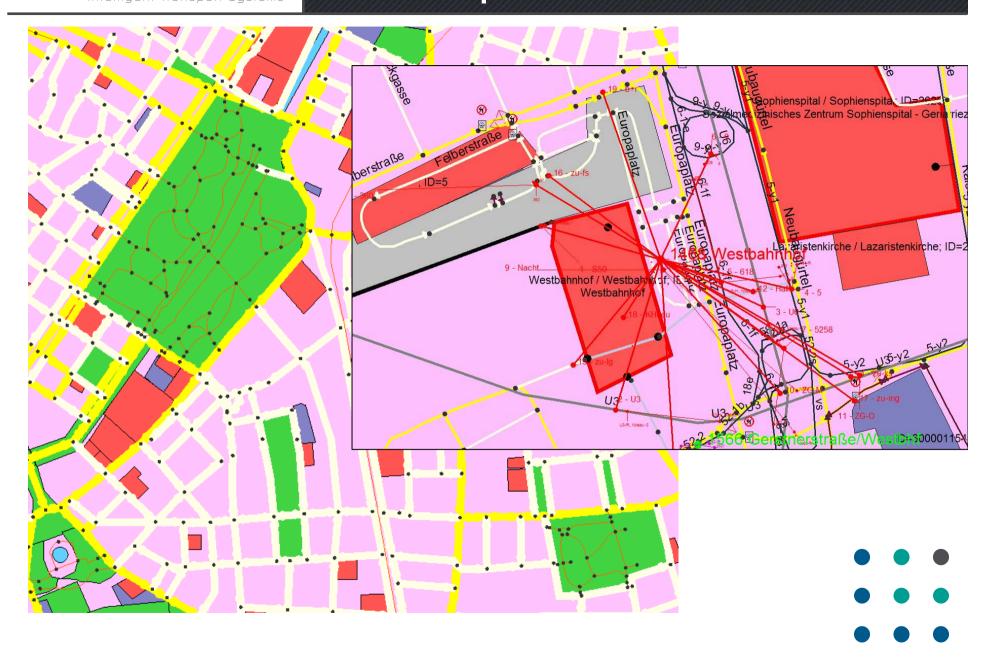


Traffic state in Google





GIP Export DIVA

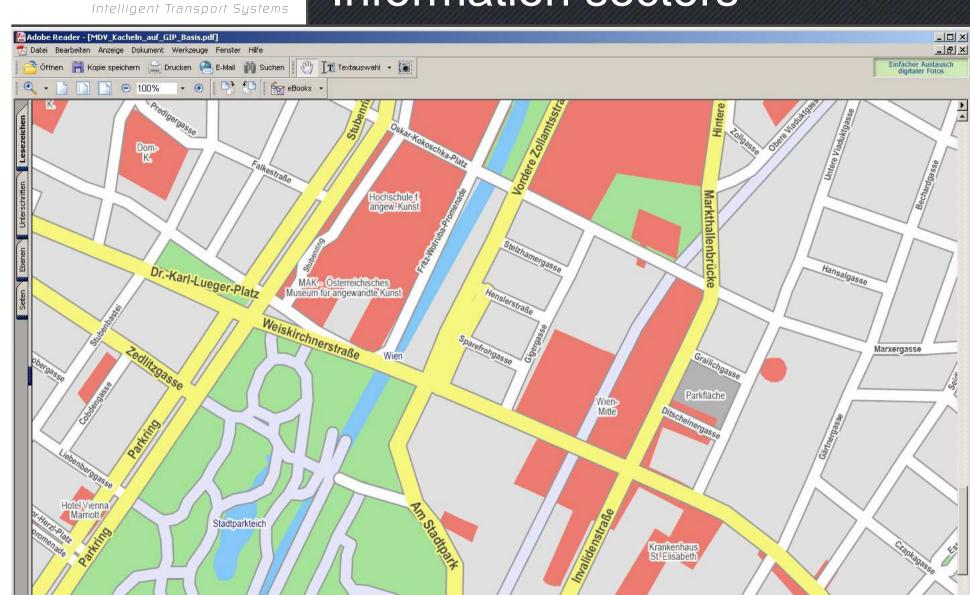




Stadtpark

993,4 x 993,4 mm

Information sectors



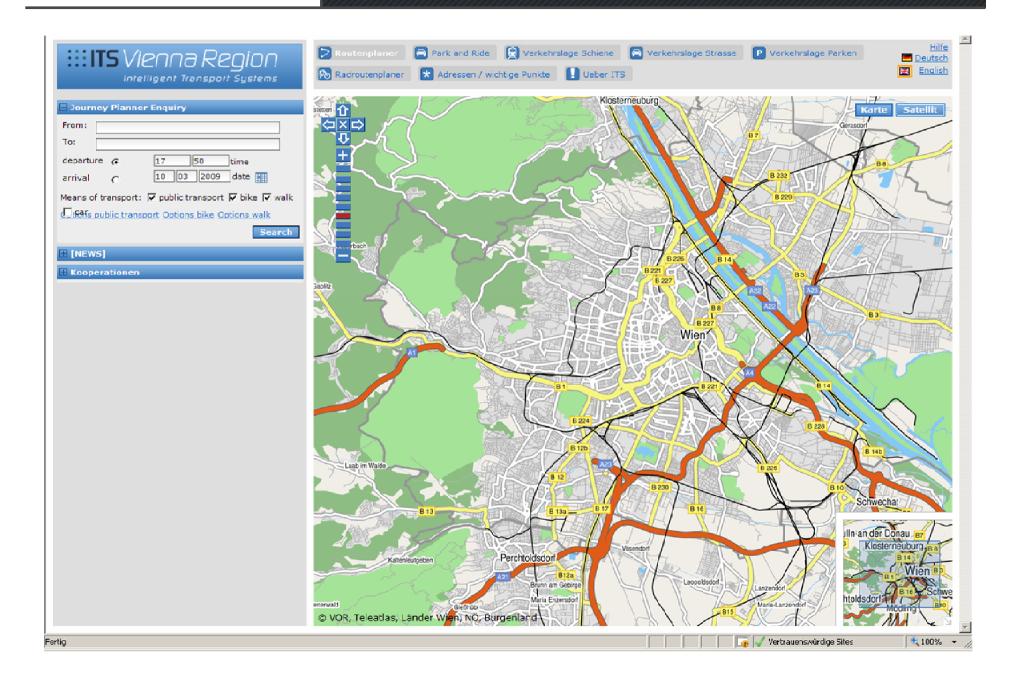
Große Ungarbrücke

1 von 1

D DI G O



Demonstrator entrance





from 18:26 Zieglergasse/Westbahnstraße

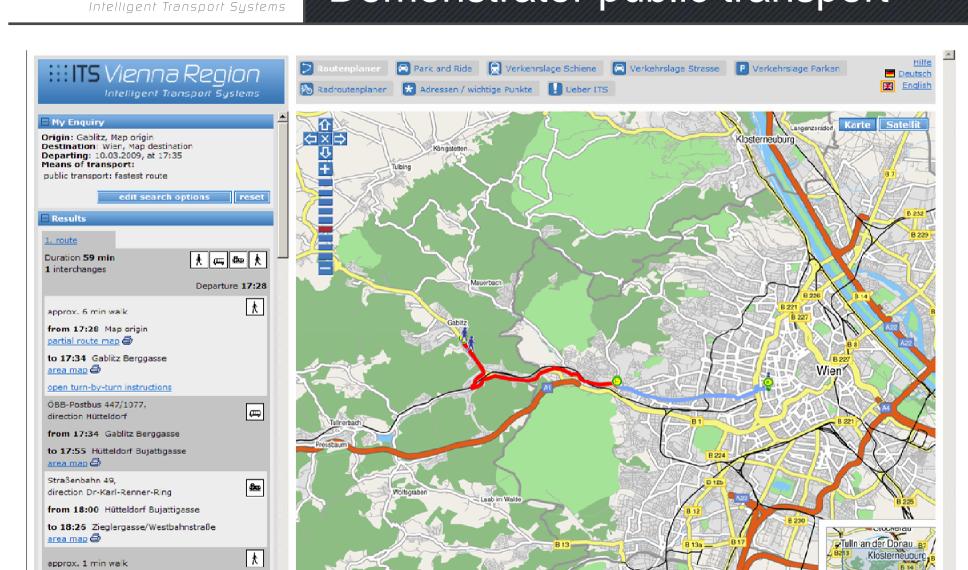
to 18:27 Map destination partial route map

open turn-by-turn instructions

Demonstrator public transport

🧓 🍼 Vertrauenswürdige Sites

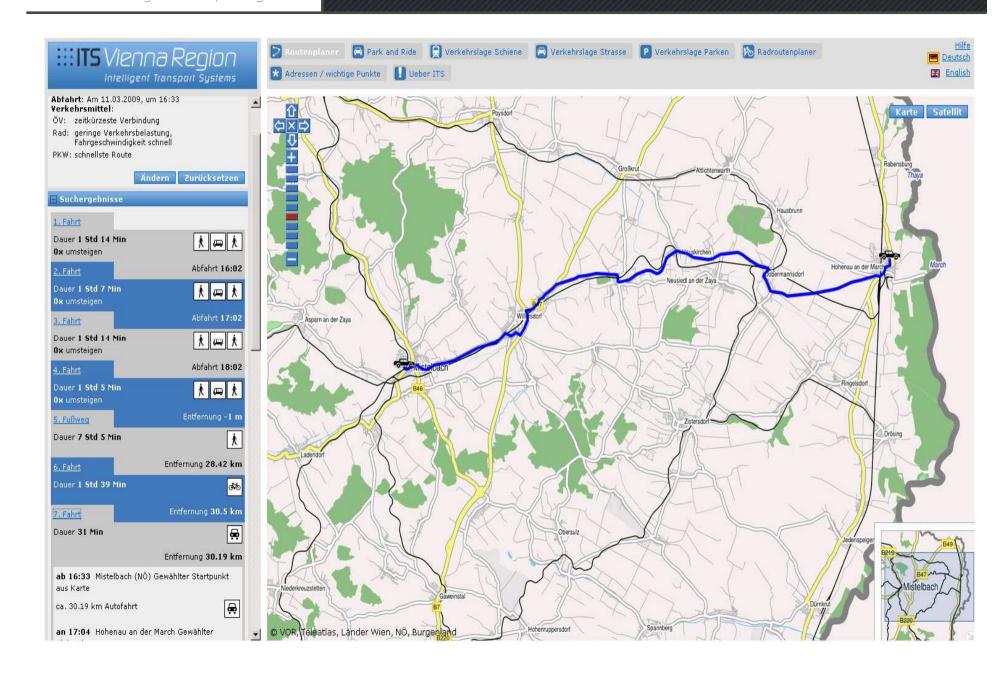
₫ 100% 🕶



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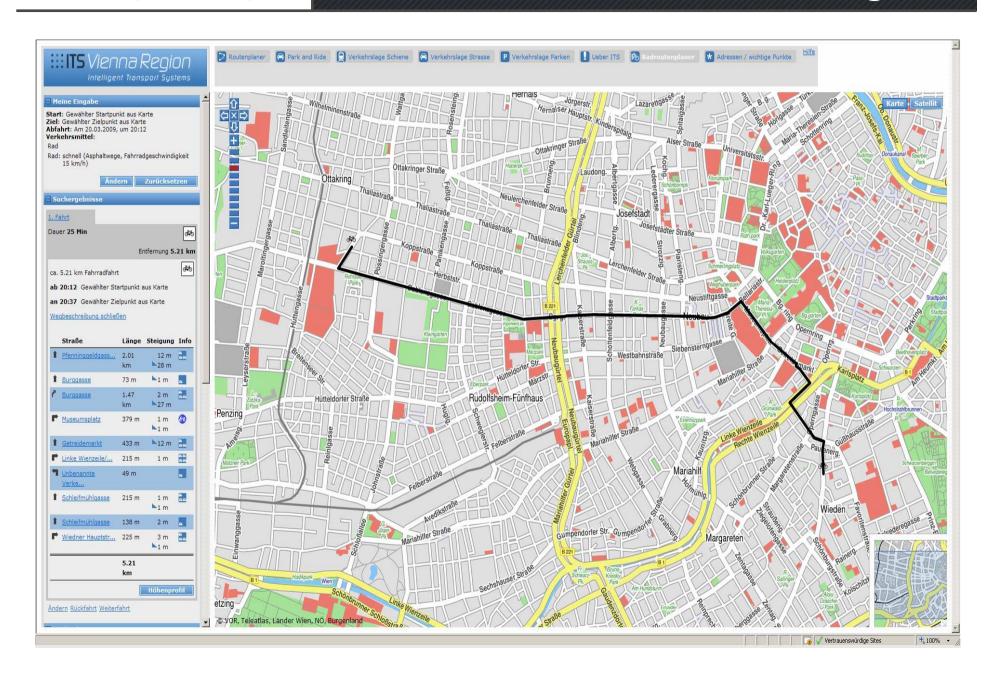
Demonstrator routing for optional modes





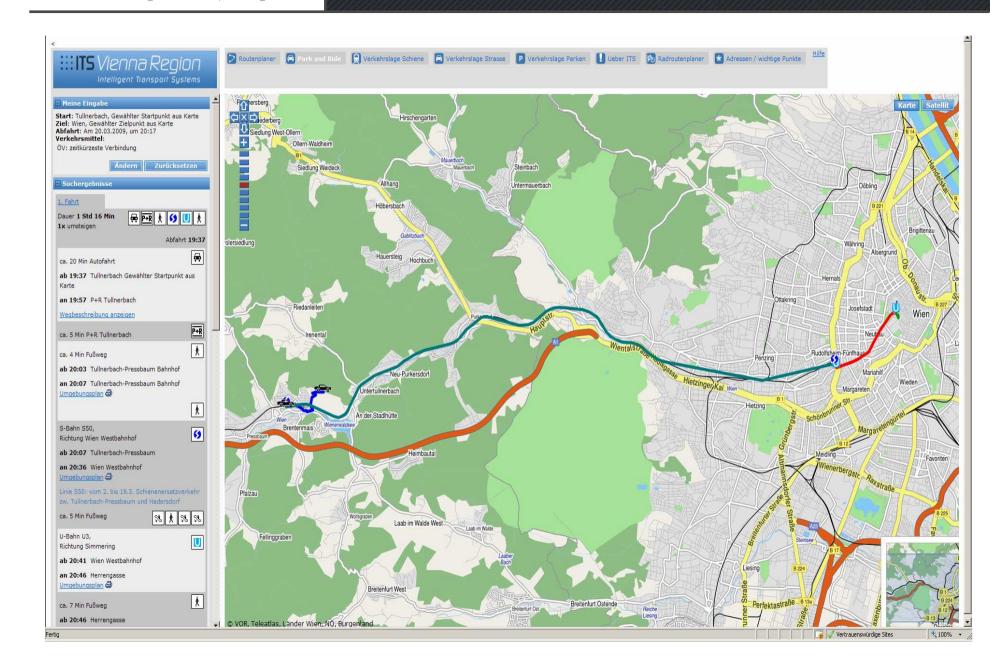
Demonstrator bike routing





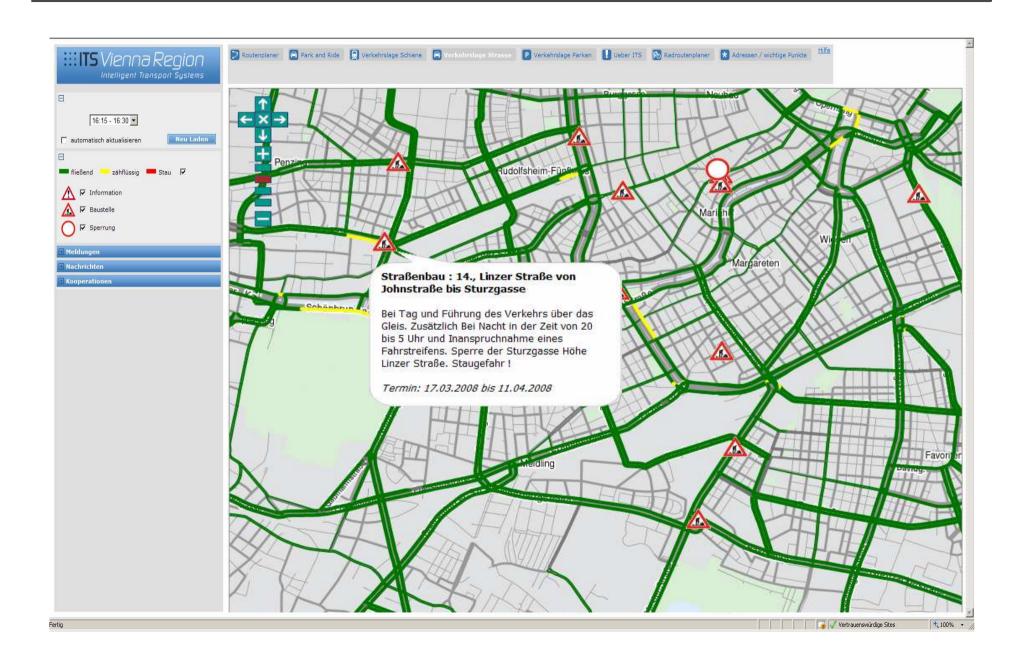


Demonstrator Park&Ride





Demonstrator situation on the road





Data privacy

- No individual-related data is used by ITS Vienna Region.
- Government administration and transportation companies anonymize their data before transmission to ITS Vienna.
- We use number plate recognition and Bluetooth identification to measure traffic flow. This data is made anonymous by a *strong cryptographic hash function* in the detection unit.



Business case and usability

Business case:

- So far, nobody makes money with traffic information services.
- Users are reluctant to pay for traffic information services.
- Public authorities can charge commercial users prime costs.
- Traffic information is a service of public interest.

Usability:

- Learn from good examples of information sites on the internet
- Strive for good usability and portability on mobile devices
- Focus on the latest mobile phones
- Keep interface (and functionality) simple





EU ITS Action Plan

- We consider the EU ITS Action Plan an important step towards an European traffic management and information infrastructure.
- Public authorities demands:
 - Data exchange between public and private partners must be mutual (or negotiable).
 - If public data for routing recommendations mus obey rules of public interest :
 - No through traffic in residential areas
 - Respect HGV bans
 - Realistic comparison of public transport with true car travel and parking times.











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