ITS Vienna Region / AnachB.at / GIP
the innovative traffic management project for the eastern region of Austria

Hans Fiby, project leader ITS Vienna Region
Vienna

Lower Austria

Burgenland

23,500 km²

3.5 million inhabitants

40% of all Austrians

200,000 commuters / day
completion of infrastructure development in Austria (Westbahn, Regionenring, local bypasses, …)

level of motorisation will reach its limit soon

We have to face new challenges:

• expensive energy
• accessability of suburban regions
• climate, air and noise pollution, …
• traffic control via telecommunication (navigation systems)
• initiated by Vienna, Lower Austria, Burgenland
• financed by Vienna, Lower Austria, Burgenland
• funded by BMVIT, EU (research projects)
• embedded in the Verkehrsverbund Ost-Region (VOR)
Web, iPhone, networking

all means of transport

dynamic data

alle big actors are partners

covering the entire Vienna Region

June 2011:

1.000.000 route calculations
data and services

- **Taxi** (Floating Car Data, 3500 Taxis)
- **Detectors, Sensors** (traffic measurement, radar measurement)
- **Public Transport** (Wiener Linien, ÖBB, P&R)
- **Traffic news** (ASFINAG, Police, Ö3 editorial office)
- **Vienna Region**
- **Graph Integration Platform GIP traffic model**

- **services for end users**
- **traffic management**
- **e-government**

http://AnachB.at
traffic telematics platform Vienna Region

... door to door

www.AnachB.at  widget / gadget

iPhone App  partner websites

multimodal data:
  • public transport
  • individual traffic (dynamic data with FCD (3.500 taxis), traffic news, detectors, sensors, ...)

traffic forecasts – traffic model

quality control
development
know how

Vienna
Nö
Bgl.

...
AnachB.at routing for public transport
options / accessability
AnachB.at routing for cycling

Route:
Duration: 39 min
From 17:11 to 17:50
Distance: 9.39 km
Approx. 9.39 km bike

From 17:11 Wien Dr.-Karl-Lueger-Ring
to 17:50 Wien Salmannsfor Straße

Close turn-by-turn instructions

Street Distance Elevation Info
Dr.-Karl-Lueger 21 m push
Löwestraße 26 m
Dr.-Karl-Lueger 355 m 1 m
Schottenring 204 m 4 m
Hohenstaufencastell 83 m 1 m
Marie-Theresien 509 m 5 m
Unnamed Road 143 m 1 m 5 m
Unbenannte 632 m 2 m
Unbenannte 641 m 2 m 3 m
Bertha-Zuckerkandl 715 m 3 m

 ITS Vienna Region
Intelligent Transport Systems
AnachB.at elevation profile
### AnachB.at Park & Ride

#### Journey Planner

<table>
<thead>
<tr>
<th>Route</th>
<th>Duration</th>
<th>Start Time</th>
<th>End Time</th>
<th>Mode</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>1 hr 52 min</td>
<td>17:52</td>
<td>19:44</td>
<td>Car</td>
<td>19 min</td>
</tr>
</tbody>
</table>

#### Details

- **From:** St Poelten, Map origin
- **To:** Kirchstetten, Open turn-by-turn instructions
- **Approx. 5 min P+R Kirchstetten**
- **Approx. 3 min walk**

- **From:** Kirchstetten, Map origin
- **To:** Kirchstetten Bahnhof, Open turn-by-turn instructions
- **Approx. 2 min**

#### Additional Information

- R 2377 Regionalzug, towards Westbahnhof
- From 18:20 Kirchstetten, Map origin
- Approx. 18 min walk

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**AnachB.at**

**Intelligent Transport Systems**

**Vienna Region**
AnachB.at dynamic traffic map
• One common GIS network for
  • ITS Vienna Region
  • traffic administration of Vienna
  • traffic administration of Lower Austria and Burgenland
  • further projects in Styria, Carinthia, Salzburg and Tyrol
  • common basic data model and software development
  • decentralised update
  • E-Government applications collect incident records for the traffic management
advantages for cities and communities

• door to door routing becomes possible –
  – business location,
  – tourists,
  – emergency
  – influence on navigation systems without costs

• bicycle routing,…

• internet presence of cities and communities, always up to date planning basics

• communities can use all ITS data (regional projects)
GIP screenshots
GIP as base for e-government
common intermodal graph for traffic data throughout Austria (budget ca. € 2 mio.)

e-government processes ensure always up to date data in the GIP (budget ca. € 2 mio.)

made it possible to provide licences for all public sector bodies throughout Austria
until now: multiple data administration

future: the GIP will integrate all data
interdependent competences

Bahnnetz - Wiener Linien ...

motorways - ASFINAG

footpaths - local authority

roads – local authority

bicycle pathes - local authority

roads - state authority
quality management

- **aspects:**
  - graph
  - dynamic traffic map
  - routing

- **services**
  - friendly user tests
  - focus groups
  - testing laboratory
  - management of reportings
project QM4ITS

- 19 tests in which permanently the quality of content and results is measured
QM aspects

- graph
  - graphs of the federal states are now in operation
  - Vienna has started review and correction of pedestrian and cycling infrastructure
  - MA46 is reviewing one way streets and turning relations in Vienna
  - transit network is coordinated with MA46 / MA21 and Lower Austria´s road network group
- to be done:
  - cycling infrastructure in Lower Austria
  - road network of Lower Austria´s communes (-> Teleatlas)
comparison of GPS data and graph
• comparison of travel times: online traffic management vs. taxis
• comparison of travel times: online traffic management vs. taxis
inspection tours

- 5 vehicles
- 6 laps
- 6 routes
  (30 times a day)
QM routing

- Taxi velocities
TerraSAR-X DRA Campaign

Schwechat, 07:08:58 local time
Acquisitions on
15.04.2010,
26.04.2010,
7.05 2010
Scene dimensions:
56 km (N-S), 15 km (E-W)
QM routing

- comparison of measured velocity with values determined from DLR’s satellite data
- 3 flight lines on fixed dates
QM management of reportings

- currently: Bugzilla
- planned: management of reportings used by VOR
what’s important to remember:

1. visit Vienna and try www.AnachB.at!
2. for more information contact ITS Vienna Region!