Graph Integration Platform GIP
• 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
GIP graph integration platform

• suits any requirements of an „official“ graph
• data model for all means of transport
• decentralised updating (separated databases for Vienna, Lower Austria, Burgenland etc.)
• synchronisation of these databases when needed
• basis für e government processes
• historisation
• Stable sub networks (for example bike paths)
• independent from commercially available graphs (Teleatlas, …) and their quality of update
• simple implementation of INSPIRE
• integration of planning networks
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 – organisation in subnets

→ Separation within one database (e.g. GIP Vienna)
→ Basis for transport modelling
→ Simplified client for decentralized graph maintenance (e.g. communities)
GIP as base for e-government

→ Edicts, e.g. speed limits, refer to GIP edges
• development of an common, intermodal traffic graph throughout Austria
• project partners:
  – all federal provinces
  – BMVIT, ÖBB infrastructure, ASFINAG
• Austria-licence for the GIP
• base for GIP.gv.at and Traffic Information Austria
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
Public sector bodies have all data necessary for the „tool“ traffic telematics:

- major roads, addresses
- traffic signs, traffic markings
- §90 – concessions, ...
The graph integration platform GIP is the common data platform of infrastructure operators as well as the responsible authorities:

local: local authorities, infrastructure, addresses, pedestrian traffic, bicycle traffic,…

regional: regional administrative authorities, traffic and construction site management, traffic signs, §90, …

state: state authorities, road networks, concessions, planning,…

nation: ASFINAG, ÖBB infrastructure, BMVIT
until now: multiple data administration

future: the GIP will integrate all data
interdependent competences

railway network (Wiener Linien, ÖBB)

motorways - ASFINAG

footpaths - local authority

bicycle paths - local authority

roads - state authority

roads – local authority
GIP.gv.at
• **targets:**
  - holding basic data for traffic control and traffic information up to date with assistance of e-government processes
  - detection of provisonal and definitive measures

• **highlights:**
  - database for traffic signs and markings
  - crossroad editor, common road cross sections
  - construction sites and events
  - review of traffic logic
  - integration in administration processes (e-government)

• **common cartography**
Within the project GIP.gv.at the „tools“ for holding traffic data up to date are developed.

The „measure assistant“ is the core application: it allows to execute regulations according to the STVO and store impacts in the GIP.

regulation texts will be created automatically.
displaying restricting measures
Thank you for your attention!

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