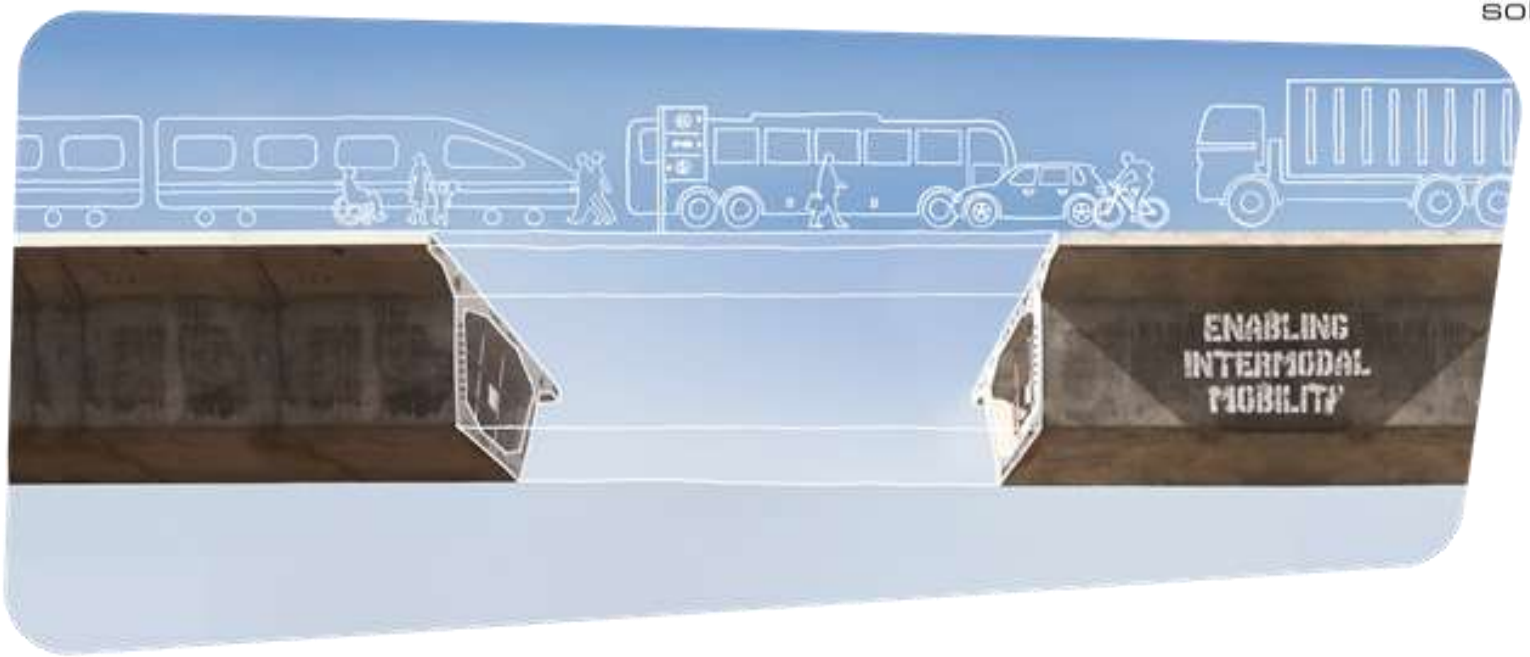


Municipalities Use SDI in transportation ?

Stefan Kollarits, PRISMA solutions

SDI – transportation - municipalities

SDI platforms are usually esablished at national / regional levels

Transportation poses specific challenges

- Heterogeneous responsibilities
- Different views – needs of stakeholders
- Static (infrastructure), dynamic (roadworks), real-time (traffic)
- High public interest – large number of (global) players

The role of municipalities?

- In data provision
- In information use and service?

Challenges

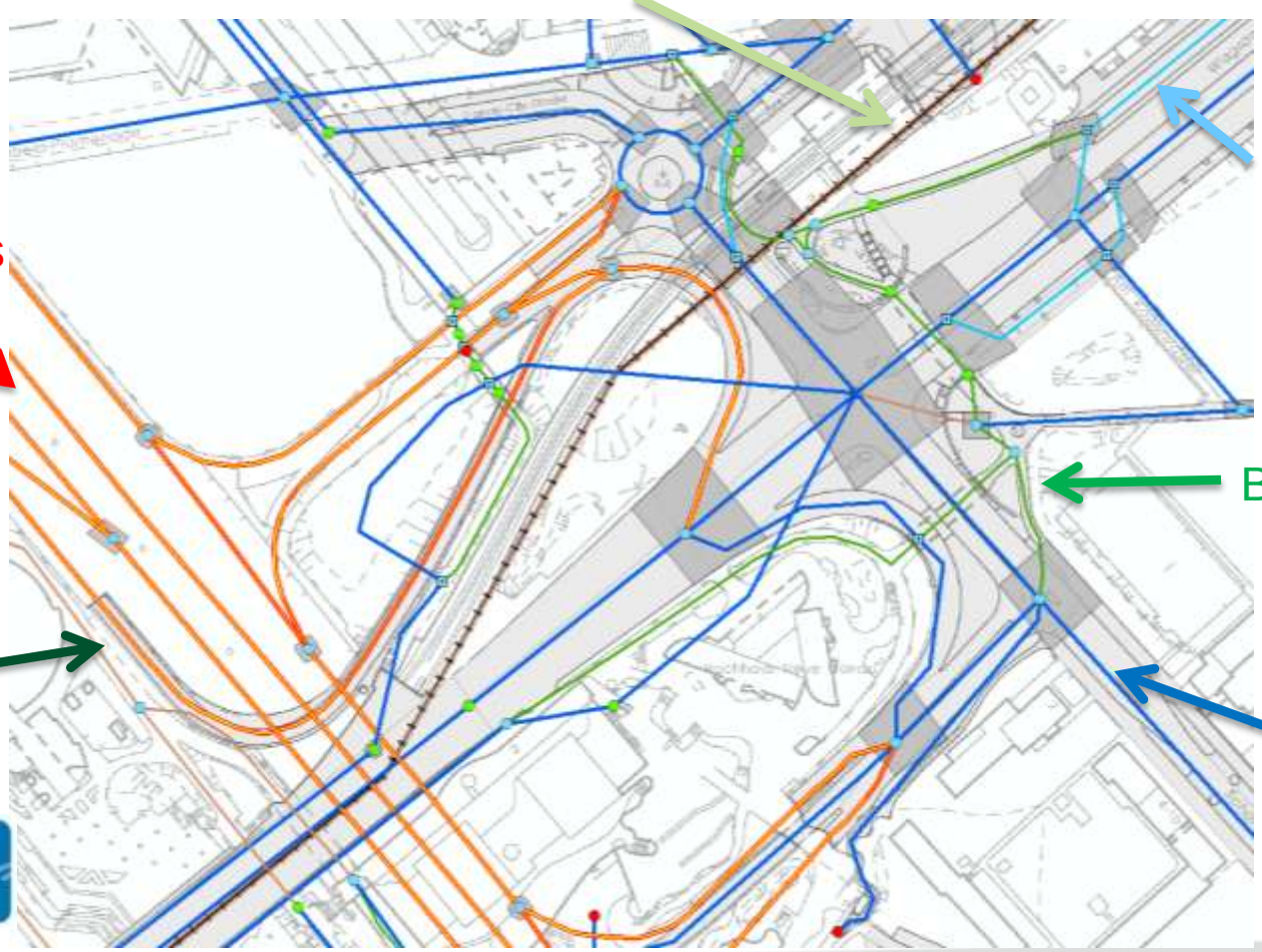
- Large number of small/medium sized municipalities (< 100.000 population)
  → Heterogeneous capacities for dealing with ITS
- Broad range of municipal tasks
  → transportation planning poorly integrated with ITS solutions
- Municipal ITS solutions concentrate on small scale solutions
  (e.g. local parking management or municipal fleet management)

How can medium sized municipalities

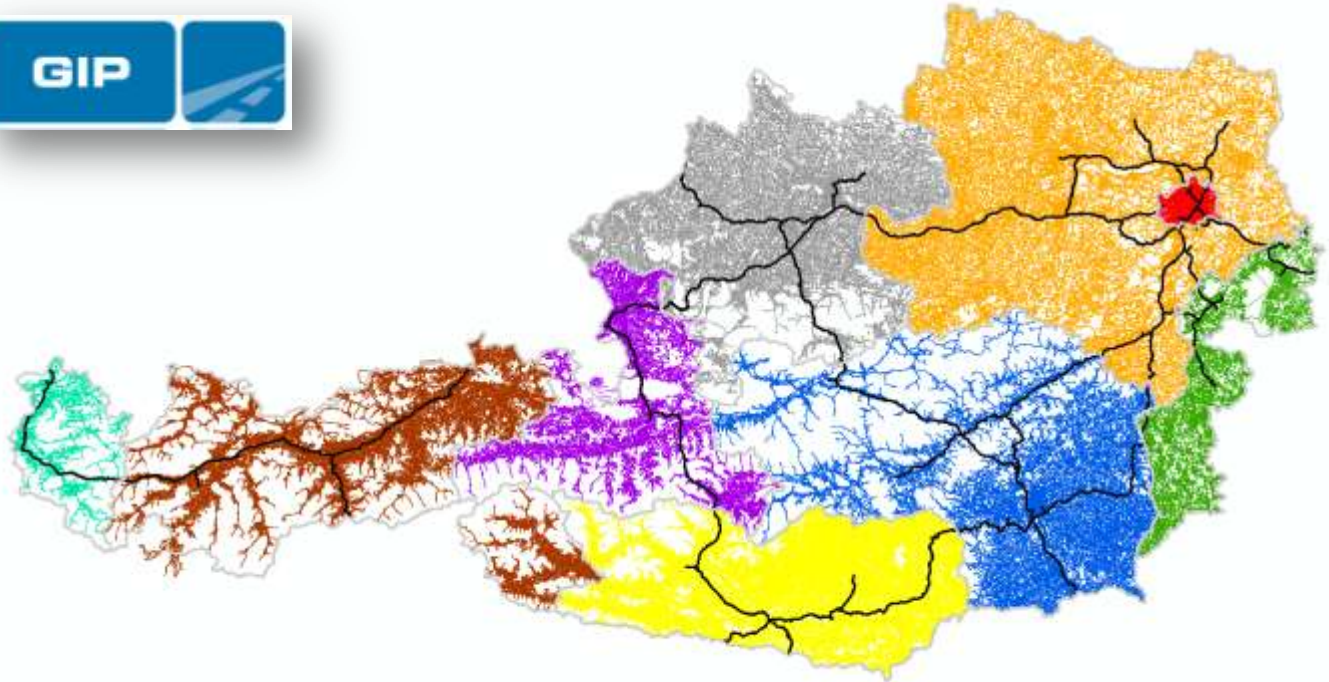
secure municipal traffic management goals ?
(“against regional/national government and big industry)

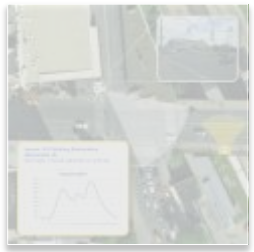
become **institutionally involved** into traffic planning and traffic management **beyond municipal borders**?

Challenge: heterogeneous responsibilities



Multimodal reference network of Austria: Graph Integration Platform





- Austrian-wide multimodal reference network – roads, rails, bike and pedestrian ways
- Governmental data
- Synchronisation between all partners (regions, ASFINAG, OeBB)

The status – Austrian example

GIP developed in 2006-2009
- Data model
- Tools
- Standards for implementation

GIP into production 2009 – 2012
- Austrian regions
- Motorway/railway companies
- Large municipalities

GIP as a service base
- Austrian basemap
- Austrian wide jorney planner (VAO)

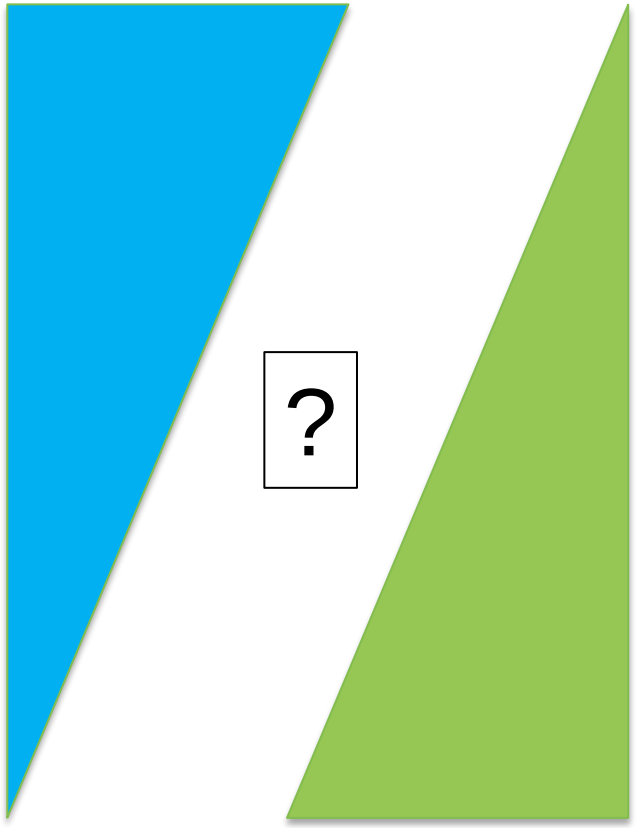
GIP and small/medium municipalities
- ???

Regions vs. Municipalities

- Network infrastructure
- Routing Information
- Roadworks
- POI

- Location reference systems

- Traffic regulations
- Road infrastructure assets
- Road conditions
- Road maintenance
- …..



Solutions - Organisation

Concerning information management

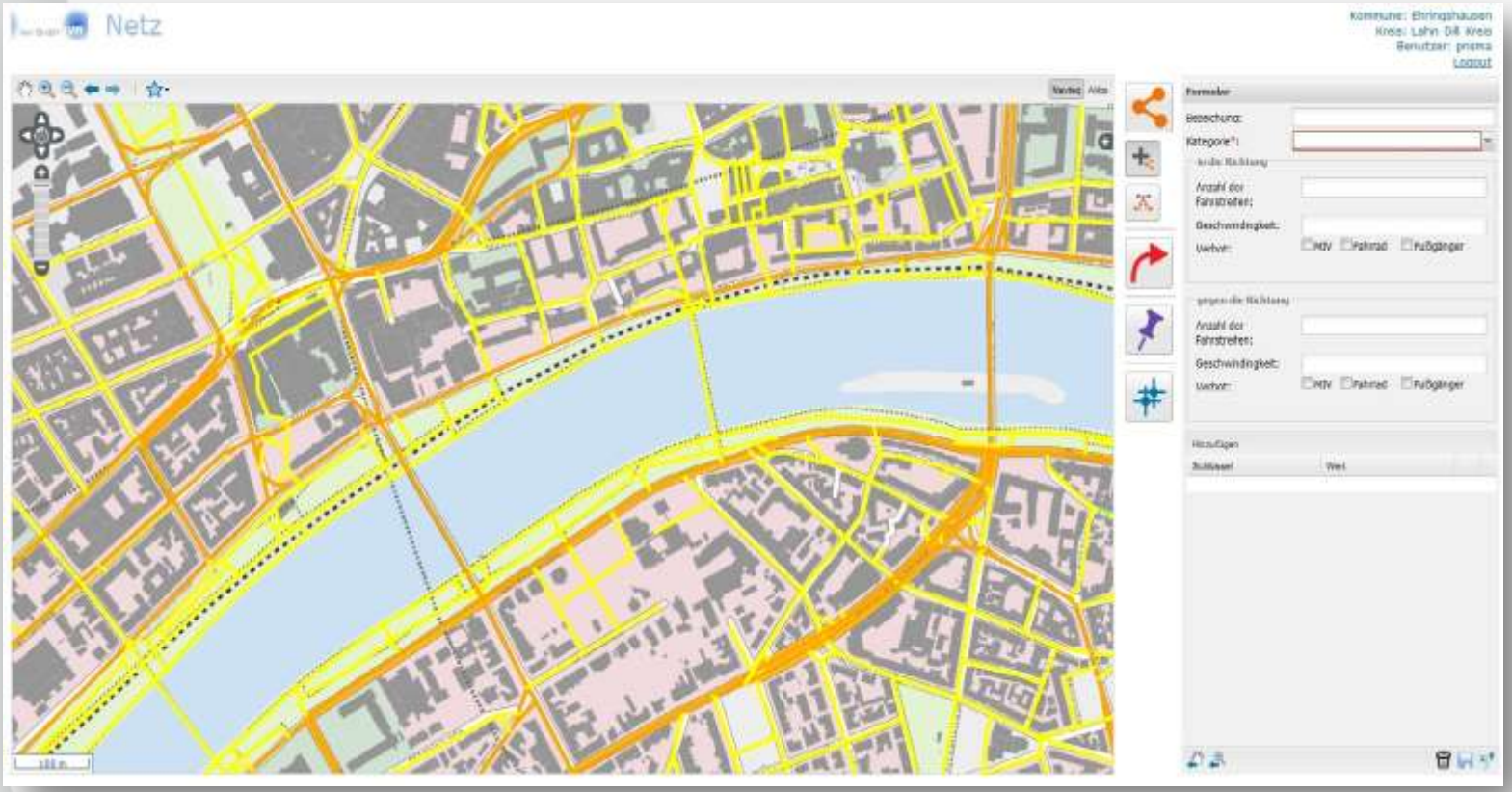
Municipal islands
Cooperation of municipalities
Cooperation with regional/national institutions

Concerning ressources
Municipal ressources
Shared ressources
External ressources

and combinations

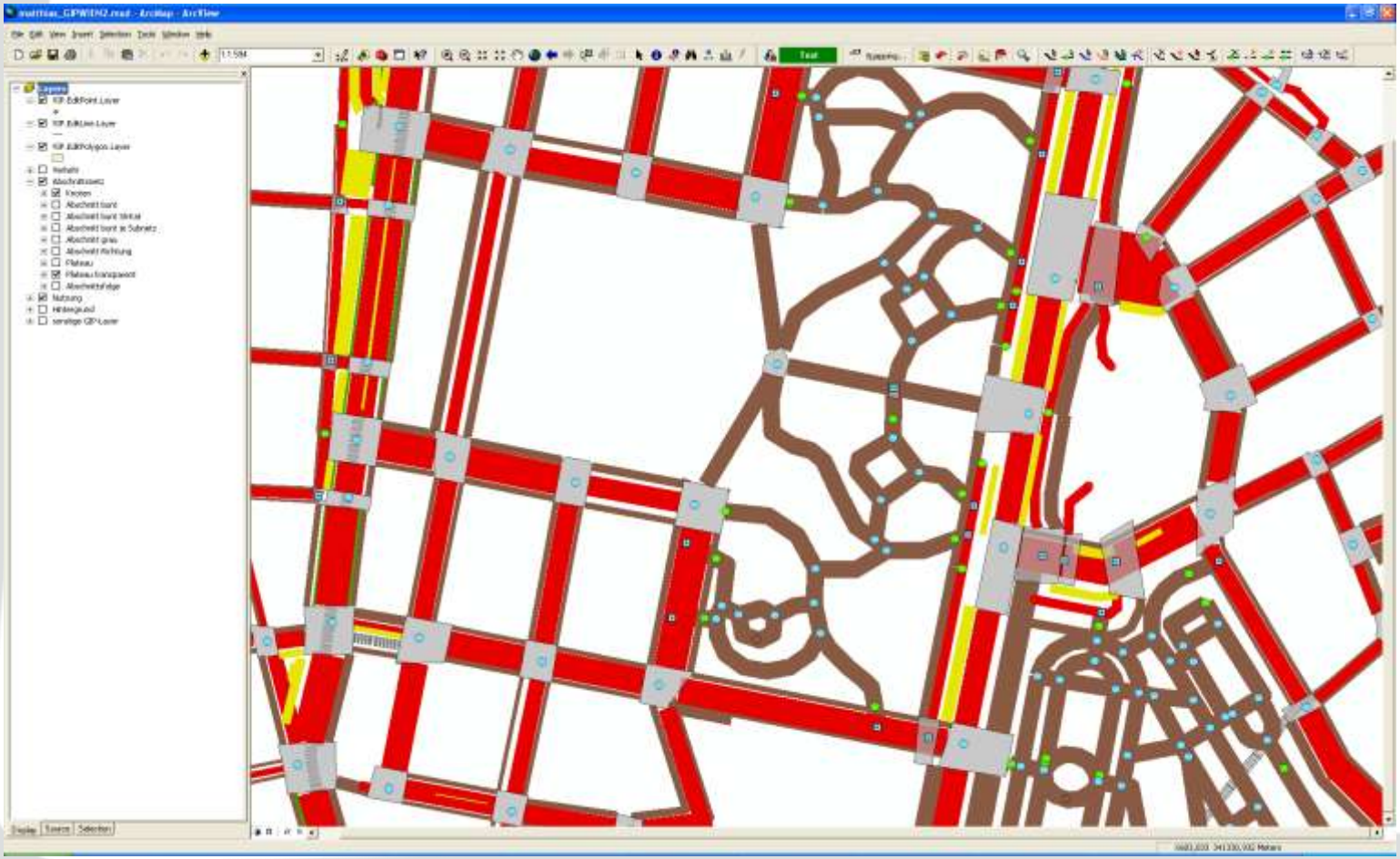
Dedicated, centrally provided tools?

- intuitive webclient for network management



Or Functionality within known base system?

- Generic functions within desktop GIS environment



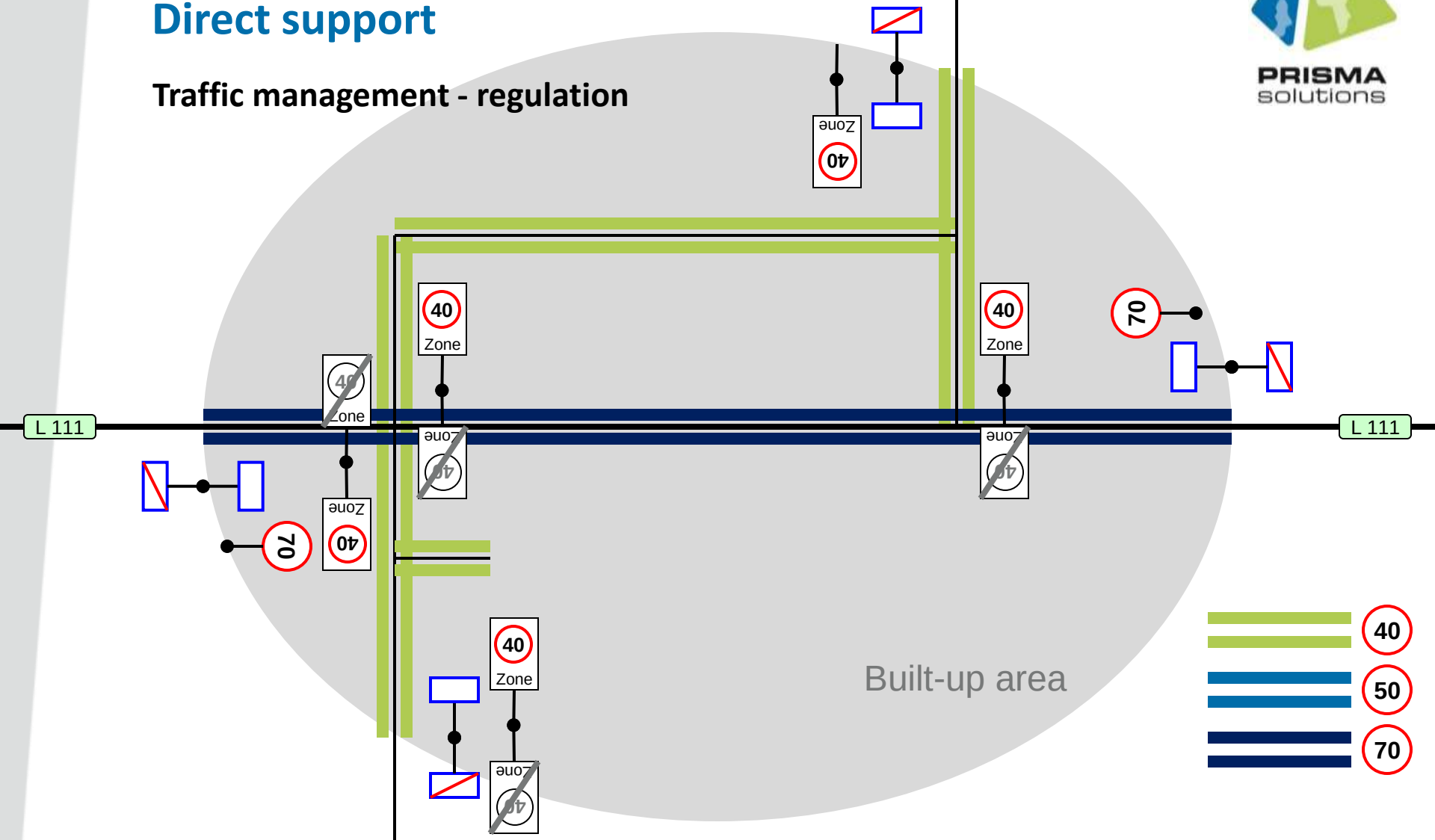
Traffic management – issues

Integrated processes for solving real-world problems

(instead of tackling data gaps)

Direct support

Traffic management - regulation



Integrate traffic management

One tool for integration

Solutions - Workflows

- Improve transportation related eGovernment processes and information

  → traffic regulation, infrastructure maintenance, roadwork management

- Participate in seamless information integration

  → support national / international standards and policies for information integration

- Integrate municipal traffic management strategies into ITS services

  → by continuous information integration and mutual policy arrangements

Added value at municipal level

Potential positive effects

- **Improved (reliable/optimised) traffic organisation**
- **Improved legal quality of traffic organisation**
- **Continuous update of traffic infrastructure and traffic organisation information**
- **Continuous update of routing relevant information**
- **Municipal traffic management strategies become visible**

Based on integrated solutions, concerning

Technique – Organisation – Work-flows

Questions for further thoughts

The role of the public sector in transportation – in 5/10/15 years:

- Information?
- Services?
- Budget ?
- Cooperation – Communication - Competition?

  (Citizens, Administration, Economy)
- Local vs. Global or Local and Global?

Thank you for your attention