

rowanet

Backbone network
of Vysocina region

Petr Pavlinec

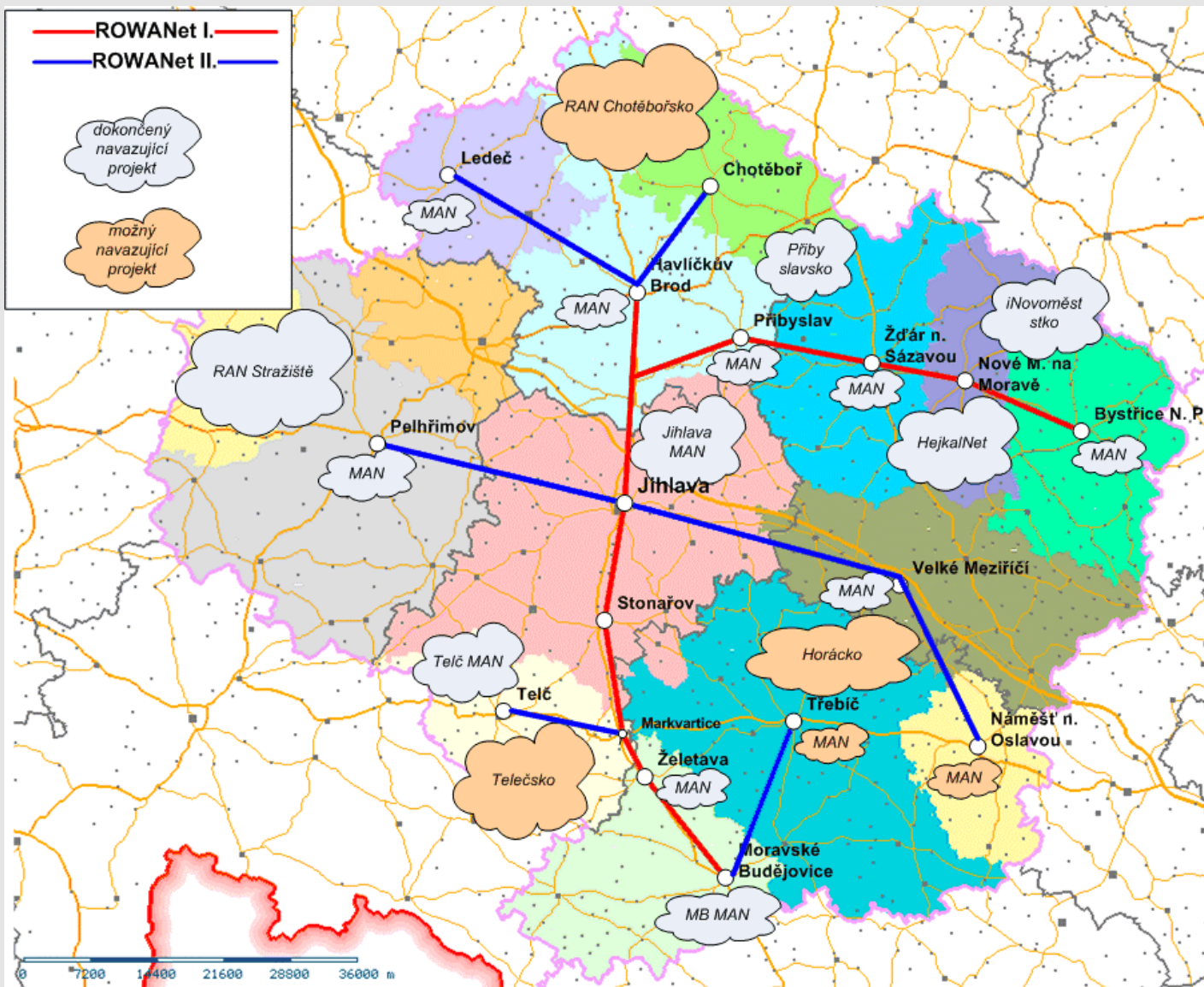
Main objectives of the project

- Building of regional backbone fibre network owned and operated by self-government
- New private network for non-commercial use for public administration services
- No direct support of Telco market supply
- Support of local networks on municipal and micro region level (MAN, RAN)
- Support of academics and research projects

Project outputs

- Backbone fibre network based on CWDM technology
- 6 big and 4 smaller cities of the region connected by network
- 10 new PIAPs in region
- 20 new Wifi HotSpots
- Fully functional data network interconnecting public organizations able to distribute high-speed services of at other public administration national networks and academics network Cesnet

Topology



ERDF - project has been supported from JROP, measure 2.2

- Present applicant is RA
- Future service organization of the type of NGO

Project management

- RA ICT dept. and RA EU team
- Representatives of cities (CIOs)

Network management and support

- RA (ICT Dep.) and future NGO

- **Project budget**
 - Total budget – 1,2 mil. EUR
 - Co-financing of the region – 0,64 mil EUR (54%)
 - ERDF co-financing – 0,46 mil EUR
 - MMR (national budget) co-financing – 0,1 mil EUR

- **Next project phases budget**
 - 1 mil EUR

Main Partners

- **Optokon Co. Ltd. s.r.o.** – fibre and CWDM elements producer. Owner of Optonet network
- **Self Servis** – supplier of ROWANet-N
- **British Telecom** – project consultations, FS and market research
- **Anect a.s.** – system project of NIC Vysočina
- **Autocont a.s.** – technical project of CWDM part a project coordination with MAN
- **Cesnet z.s.p.o.** – Czech academical high-speed network, national EDUROAM partner

Main public sector partners

- **Nové Město na Moravě City** – HejkalNet, eNovoměststko projects (financed by JROP), content projects (GIS, internet kiosks, tourism, sport)
- **Moravské Budějovice City** – existing metropolitan network), CWDM testing, own project financed by JROP ICT measure planned, microregional WiFi project,
- **Telč City** - Internet in Telč exhibition, own projects financed by JROP planned (metropolitan and microregional network)
- **Havlíčkův Brod City** – Metropolitan network, Seat of the regional library
- **Přibyslav City** – metropolitan network, microregional project planned
- **Žďár n. S.** – metropolitan network planned
- **Bystřice n. P.** – metropolitan network planned

Agreements of partnership

- **We offer:**
 - ROWANet realization according to the plan
 - Instauration of the 1GB connection
 - Connection to the CESNET network and other network as well
 - PIAP (public internet access point)creation
 - Project consultations

- **We demand:**
 - Local telecommunication infrastructure development
 - Places for instauration of the connection
 - Co-operation on PIAP creation

Project history

- November 2004 – creation of regional backbone concept
- 21.6.2005 – signed contract with CRR
- Public tenders realisation – contract on fibre lines (120km), active (Cisco) and passive (CWDM) network components, PIAPs
- December 2005 – budget contribution from state budget (2910 tis. Kč.)
- March 2006 – Network startup
- April 2006 – Final report, first high-speed services other than internet connection lunched (DDS, videoconferencing)
- May 2006 – Tenders on first outsourced services (VoIP, IP, IPTV)
- Jun 2006 – 25 new Wifi Hotspots with several services lunched

Main assets

- High-capacity optical network owned by self-government
- Telecommunication market support, dealing with market failure in some parts of the region
- Private data network of the regional public administration
- Low cost of network operation
- Research projects support
- Positive influence on labour market
- Timelessness of the project

Assets for municipalities

The ROWANet network will offer the connection of at least 1Gb/s to services:

- Internet – by way of Cesnet2 network (Jihlava junction, 1Gb/s)
- KIVS – public administration communication infrastructure (Czech Telecom, universal connection)
- Department data networks – MPSV, MVČR, GovBone
- Subsidized last miles for service providers

Assets for municipalities II.

Other assets for public administration

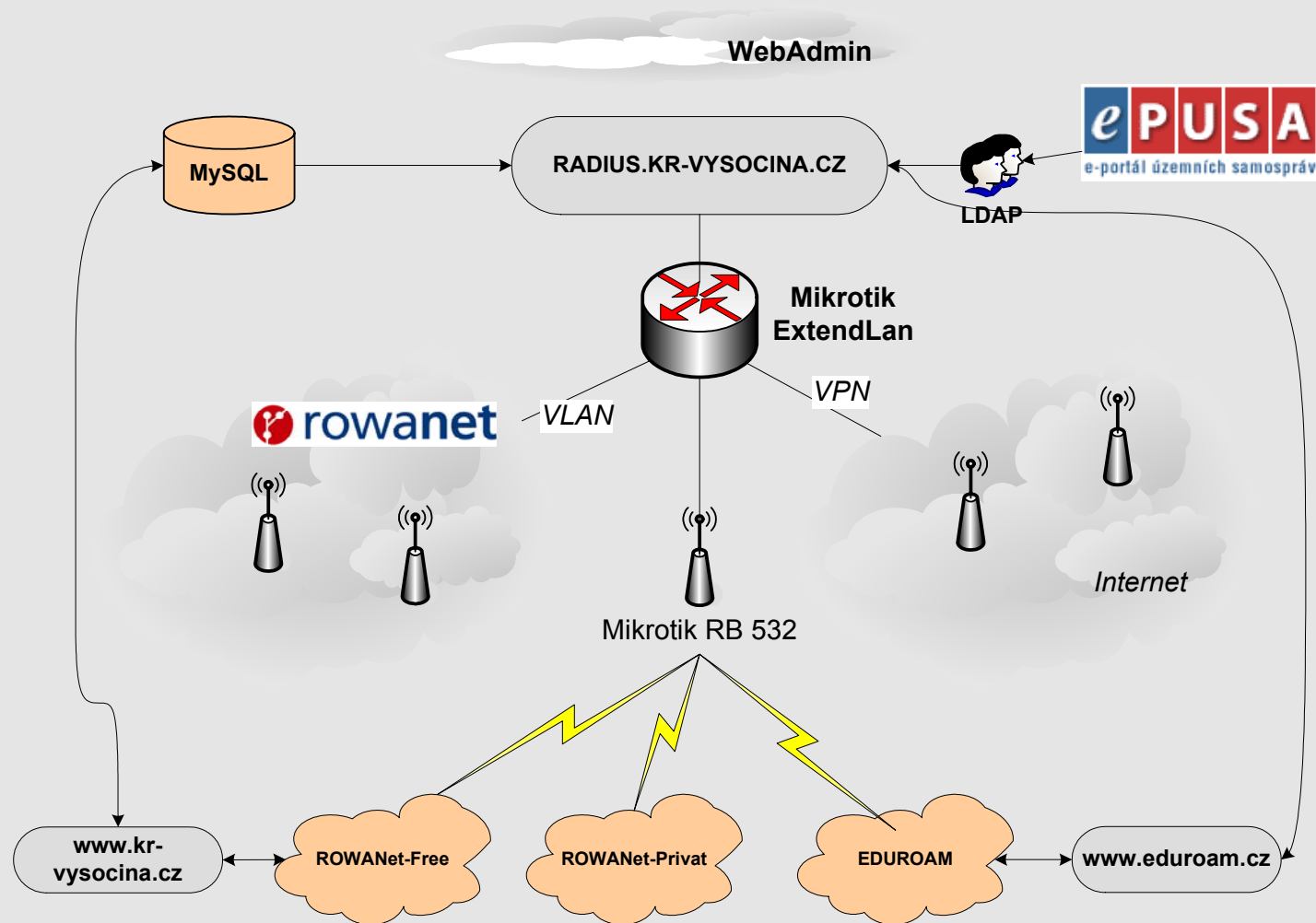
- Free private inter-city data communication (offices, schools, hospitals)
- Dynamic growth of the services quality
- PIAP – network of the internet access points within the region

Considerable support of the telecommunication services for enterprises and households within the Vysocina region as well (lower prices, better quality)!

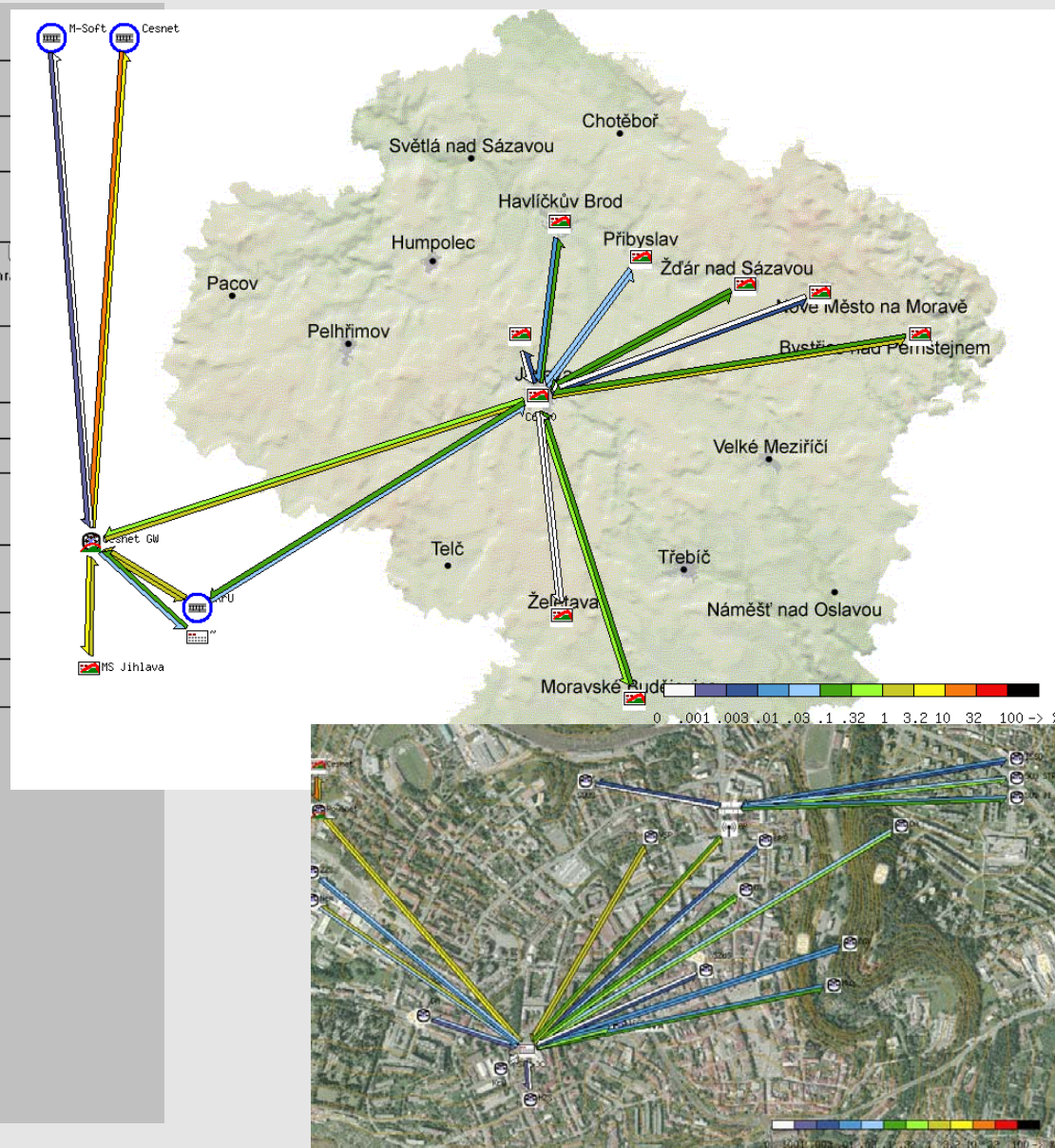
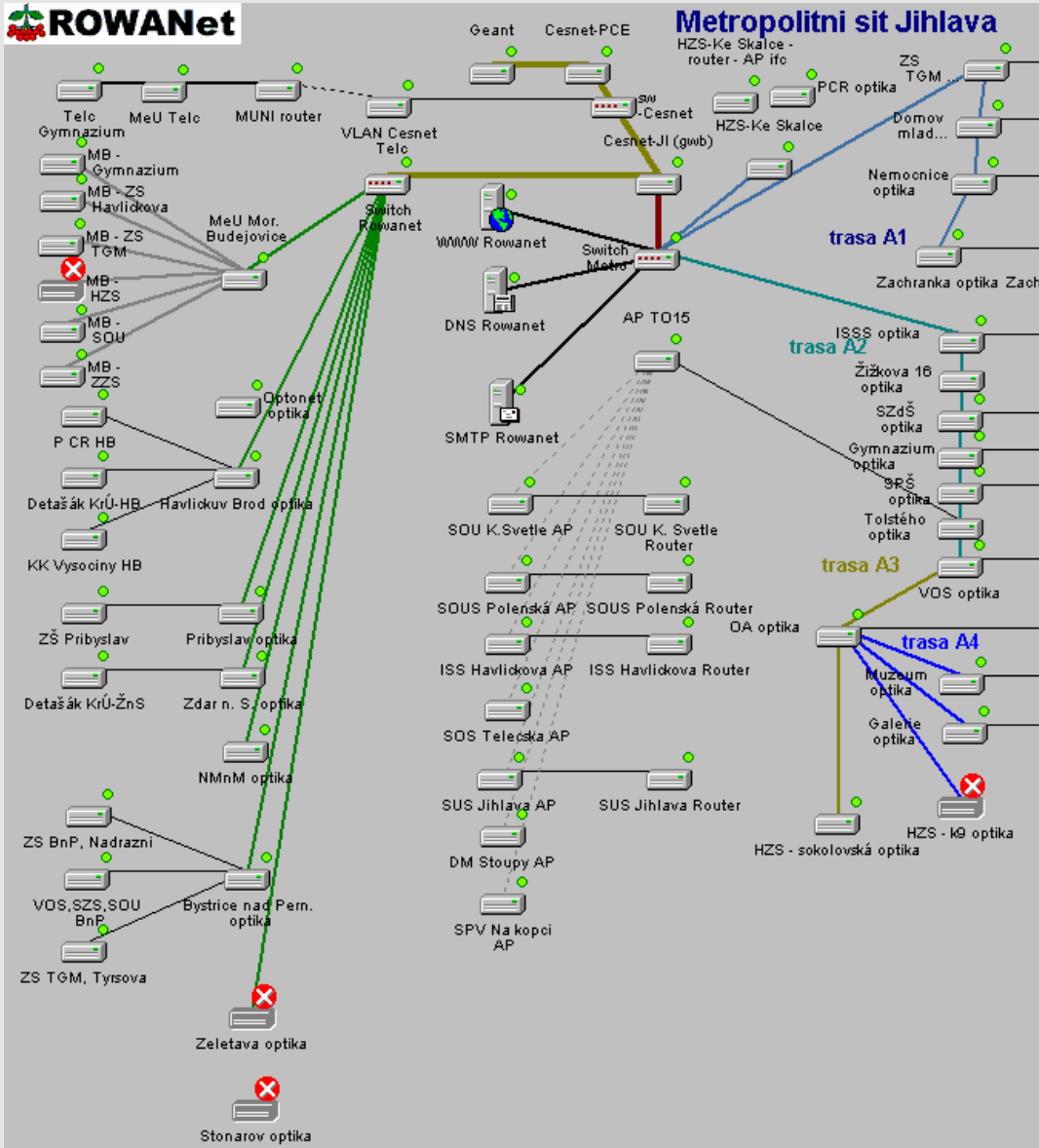
Assets for the region

- **Stronger position of the region - more competitive**
- **Improvement of the basic technical infrastructure**
- **Better communication with the detached workplaces**
- **Safe communication between integrated rescue system units of the Vysocina region**

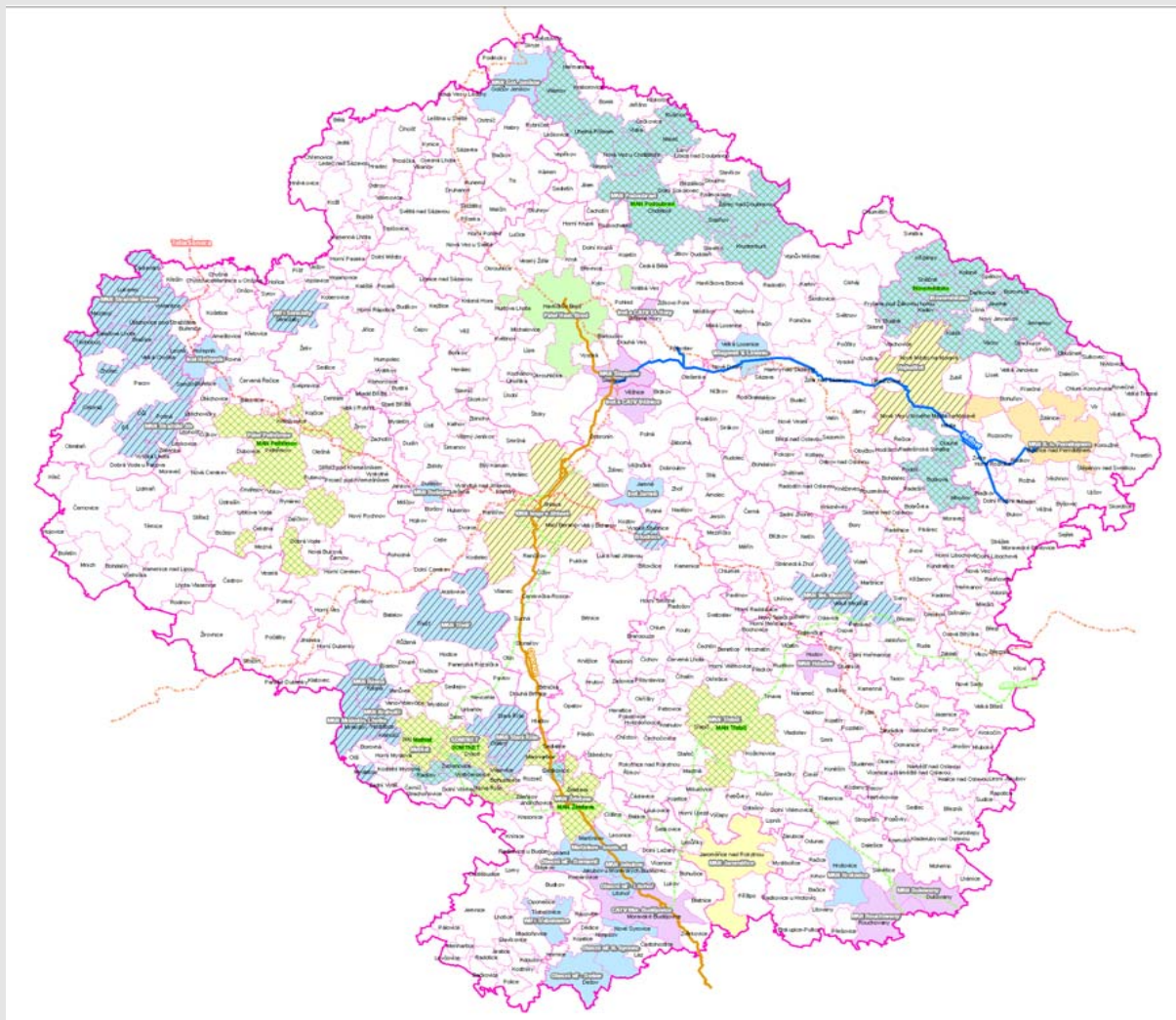
WiFi HotSpots



ROWANet services



MAN and RAN involved

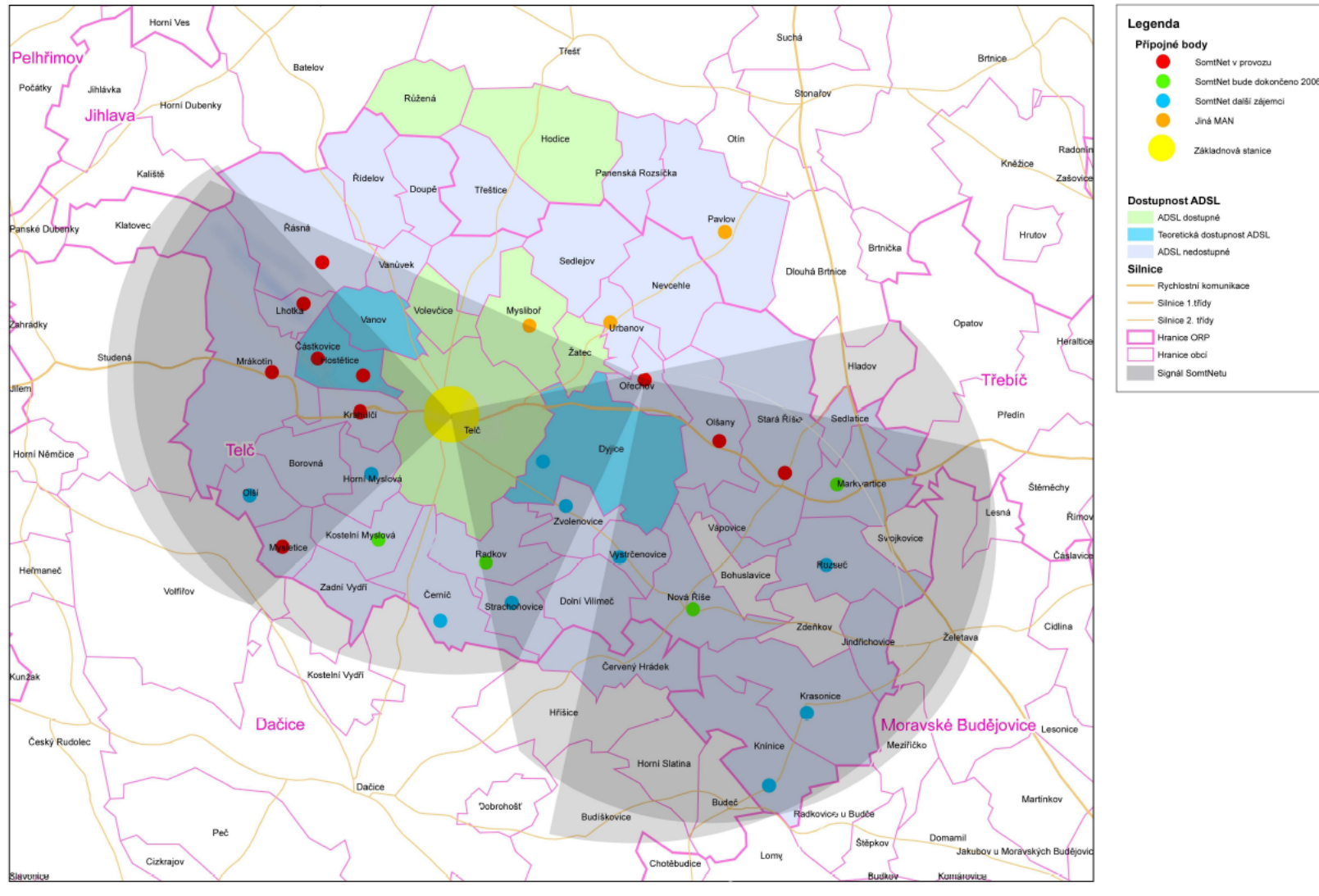


Project future ...

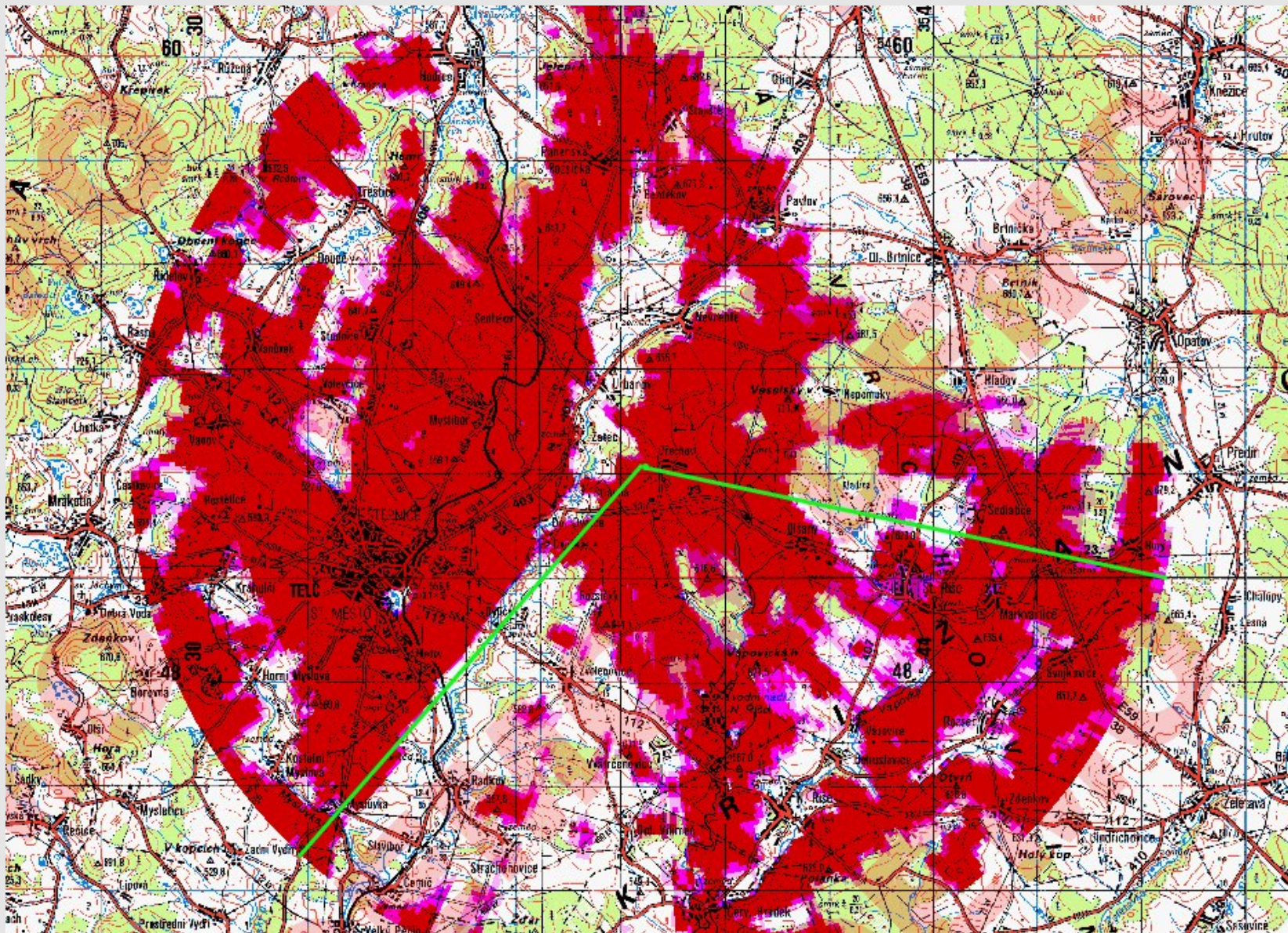
- **Other cities connected by dark fibres**
- **Distribution of national network services**
- **Starting new broadband services**

- **Alternative distribution of backbone services – WiMax project**

Připojné body SomtNet max



ROWANet WiMax



Contact

Regional Authority of the Vysocina Region, Žižkova
57, Jihlava 587 33

www.kr-vysocina.cz

Ing. Petr Pavlinec – ICT department director

- pavlinec.p@kr-vysocina.cz

Ing. Václav Jáchim – head of the polity section of ICT
dept.

- jachim.v@kr-vysocina.cz

