



EVOLUTION of PUBLIC TRANSPORT in the CZECH REPUBLIC



URTP 1990-2010

Bucharest, 13.5.2010

jan.spousta@cdv.cz

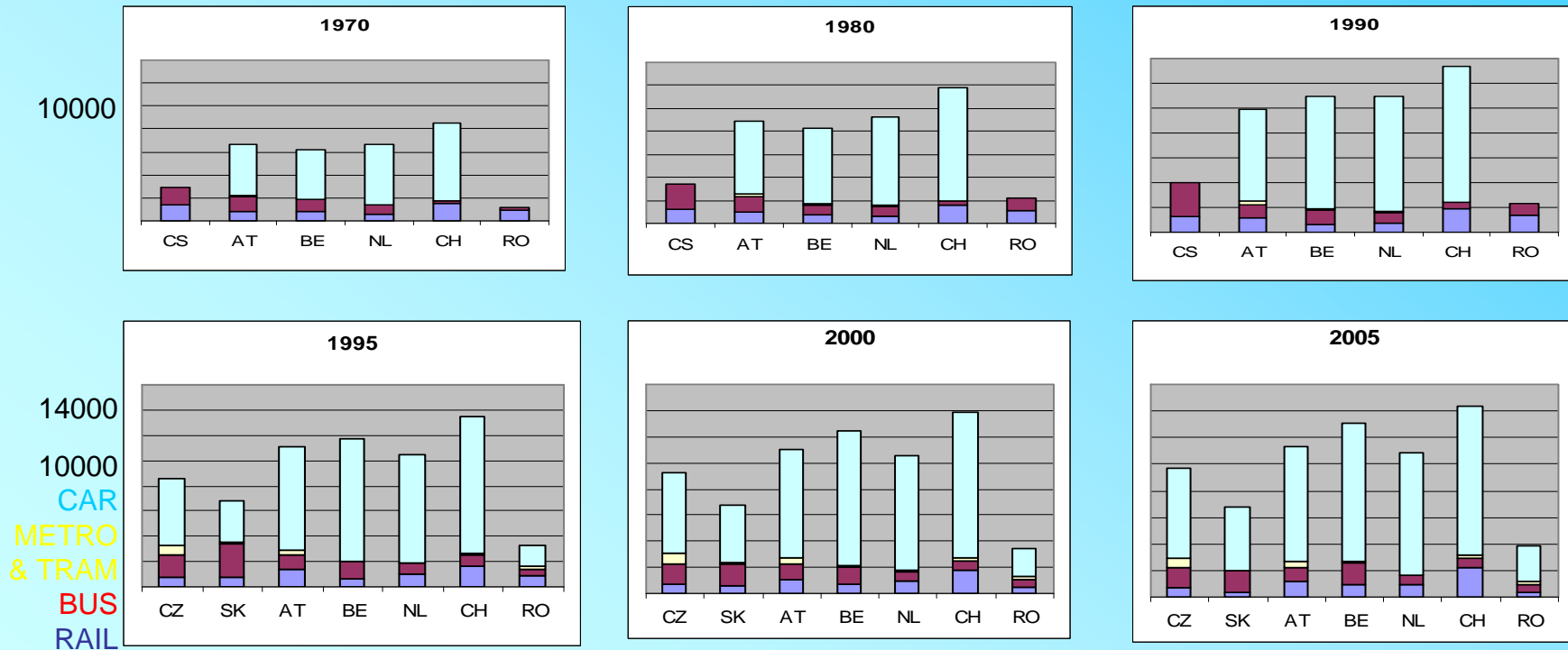
EVOLUTION of PUBLIC TRANSPORT in CZ

CONTENT

- EU context
- Public Transport in CZ
- Prague Regional Integrated Transport
- Brno & South Moravia Region
- *European project* Buses with a High Level of Service (COST TU0603)
 - Quality standards
 - Solutions

EVOLUTION of PUBLIC TRANSPORT in CZ EUROPEAN CONTEXT

MOBILITY [km/person] in selected European countries



URTP 1990-2010

Bucharest, 13.5.2010

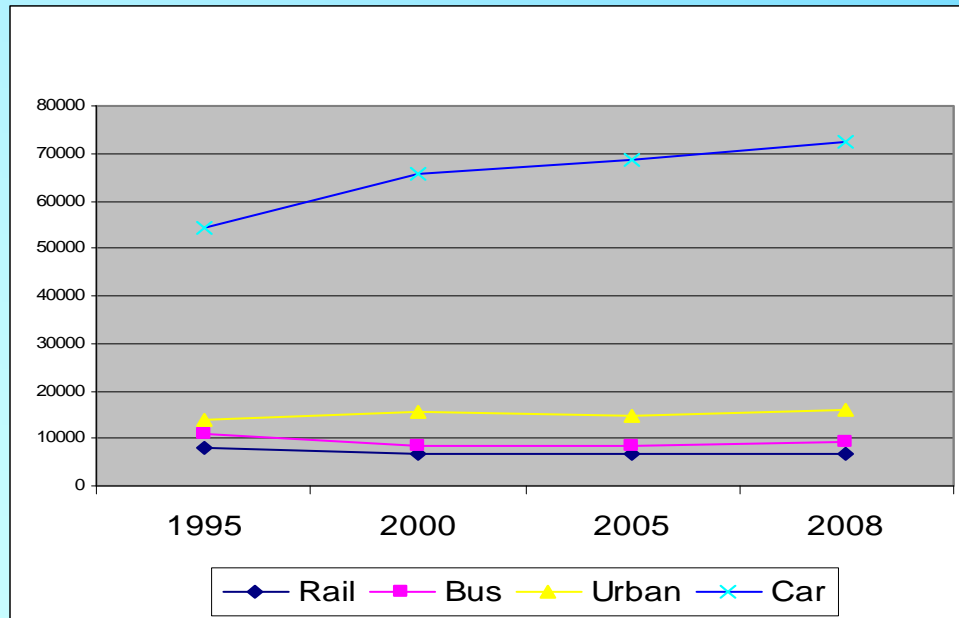
jan.spousta@cdv.cz

EVOLUTION of PUBLIC TRANSPORT in CZ

PUBLIC TRANSPORT in CZ

CZ-Transport Performance per mode

[billion passenger-km]



Rail 8 > 6.8

Bus 11 > 9.4

Urban PT 14 > 16

Car 55 > 73

URTP 1990-2010

Bucharest, 13.5.2010

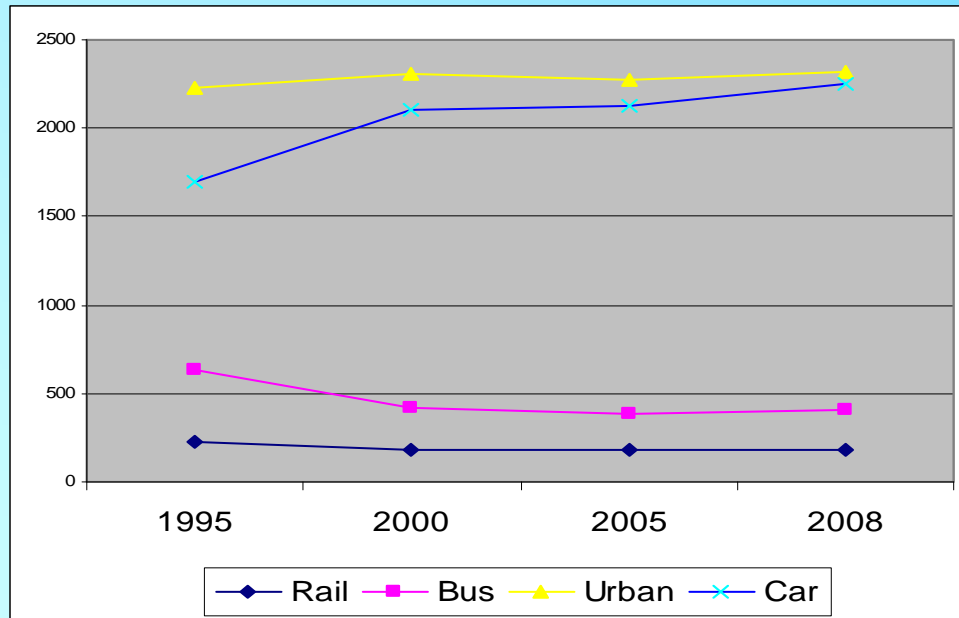
jan.spousta@cdv.cz

EVOLUTION of PUBLIC TRANSPORT in CZ

PUBLIC TRANSPORT in CZ

CZ-Number of Passengers

[mil passengers carried]



Rail 227 > 177

Bus 639 > 402

Urban PT

2230 > 2324

Car 1700 > 2250

EVOLUTION of PUBLIC TRANSPORT in CZ

PUBLIC TRANSPORT in CZ

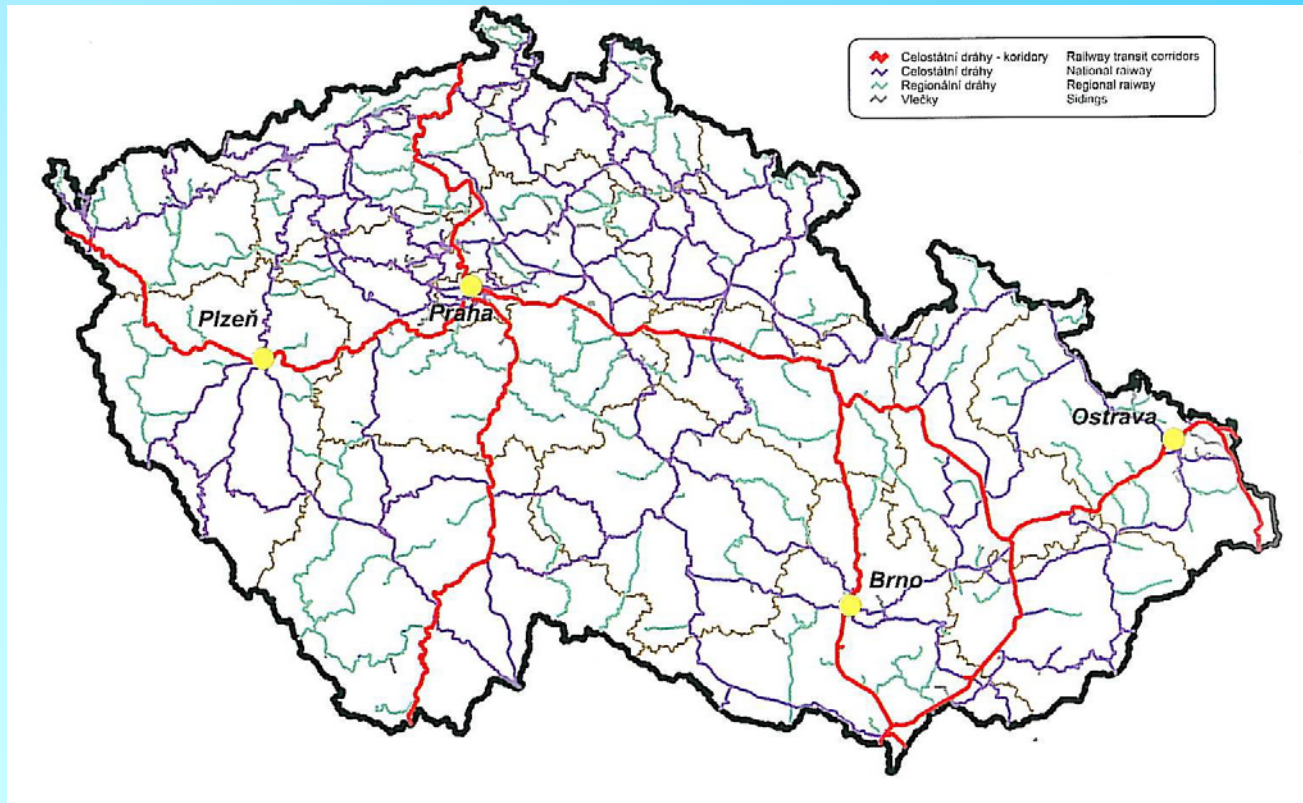
PUBLIC SERVICE CONTRACT & SUBSIDY

Long distance Rail [MoT]	160 M€
<i>Long distance Bus</i>	<i>[Open Market]</i>
Regional Rail [Provinces]	200 M€
Regional Bus [Provinces]	180 M€
Urban Transport [Cities]	450 M€
ex Prague	160 M€

EVOLUTION of PUBLIC TRANSPORT in CZ

PUBLIC TRANSPORT in CZ

NATIONAL RAIL NETWORK



9500 km network
7000 trains/day

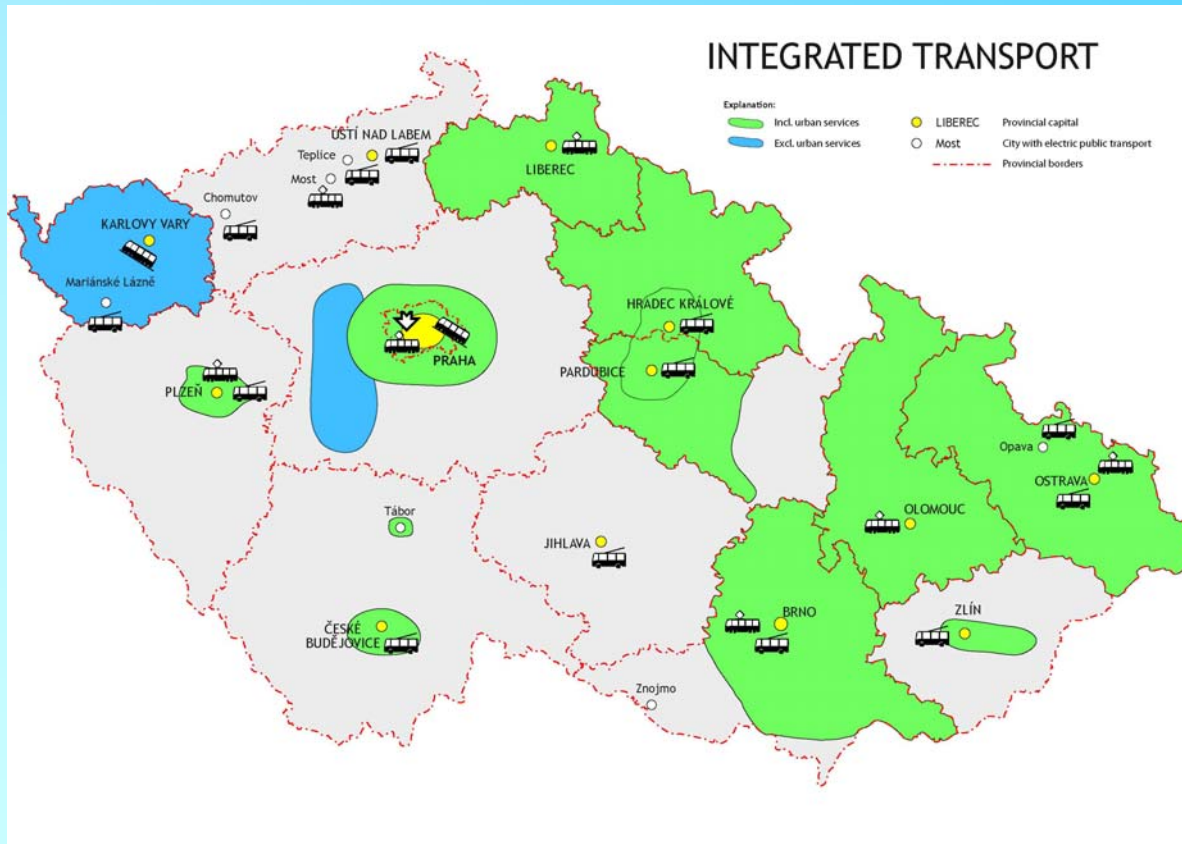
URTP 1990-2010

Bucharest, 13.5.2010

jan.spousta@cdv.cz

EVOLUTION of PUBLIC TRANSPORT in CZ PUBLIC TRANSPORT in CZ

INTEGRATED REGIONAL NETWORKS



- 14 integrated provincial or regional networks

Urban transport

- 1 metro
- 7 tram systems
- 13 T-bus systems
- 2 urban funiculars
- + ca 80 bus systems
(in most county towns)

URTP 1990-2010

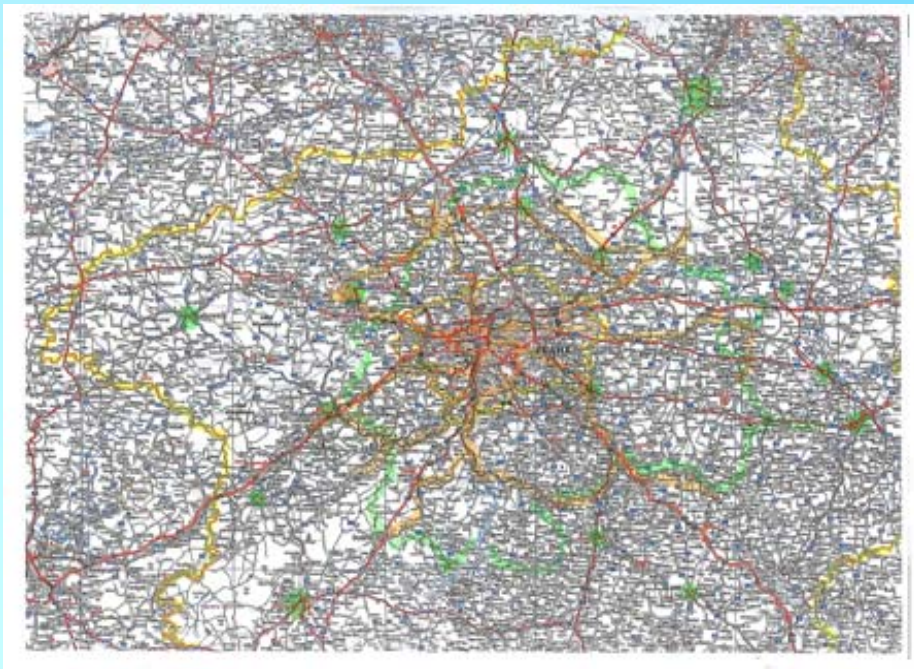
Bucharest, 13.5.2010

jan.spousta@cdv.cz

EVOLUTION of PUBLIC TRANSPORT in CZ

PUBLIC TRANSPORT in CZ

Prague Integrated Transport System



Region:

City of Prague (1.2 M inhabitants) +
part of Central Bohemian Province
(1 M)

1.4 M inhabitants served by PIT

300 municipalities

223 rail stations & stops

Passengers:

Praha – 3.5 M/day = 1250 M/year

Region

Rail – 80 thous/day = 20 M/year

Buses – 150 thous/day = 55 M/year

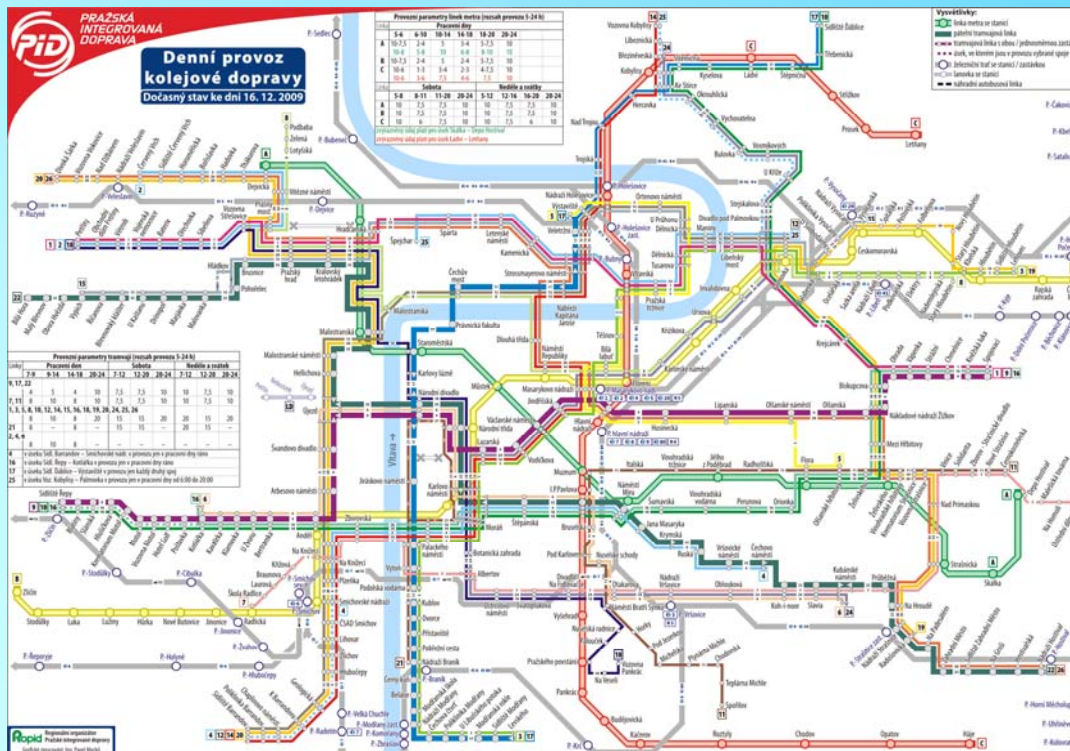
URTP 1990-2010

Bucharest, 13.5.2010

jan.spousta@cdv.cz

EVOLUTION of PUBLIC TRANSPORT in CZ PUBLIC TRANSPORT in CZ

Prague Integrated Transport System



Prague Metro

3 lines

57 stations (32 PRM accessible)

59 km

95 trains in service in peak time

600 M passengers

Prague trams:

25 day lines (9 night)

142 km of network

431 trains (695 trams) in service in peak time

357 M passengers

URTP 1990-2010

Bucharest, 13.5.2010

jan.spousta@cdv.cz

Prague bus services

937 buses in service in peak time

“Core lines”

Trams (9,17,22):

Buses: peak freq 6 min

Subsidy:

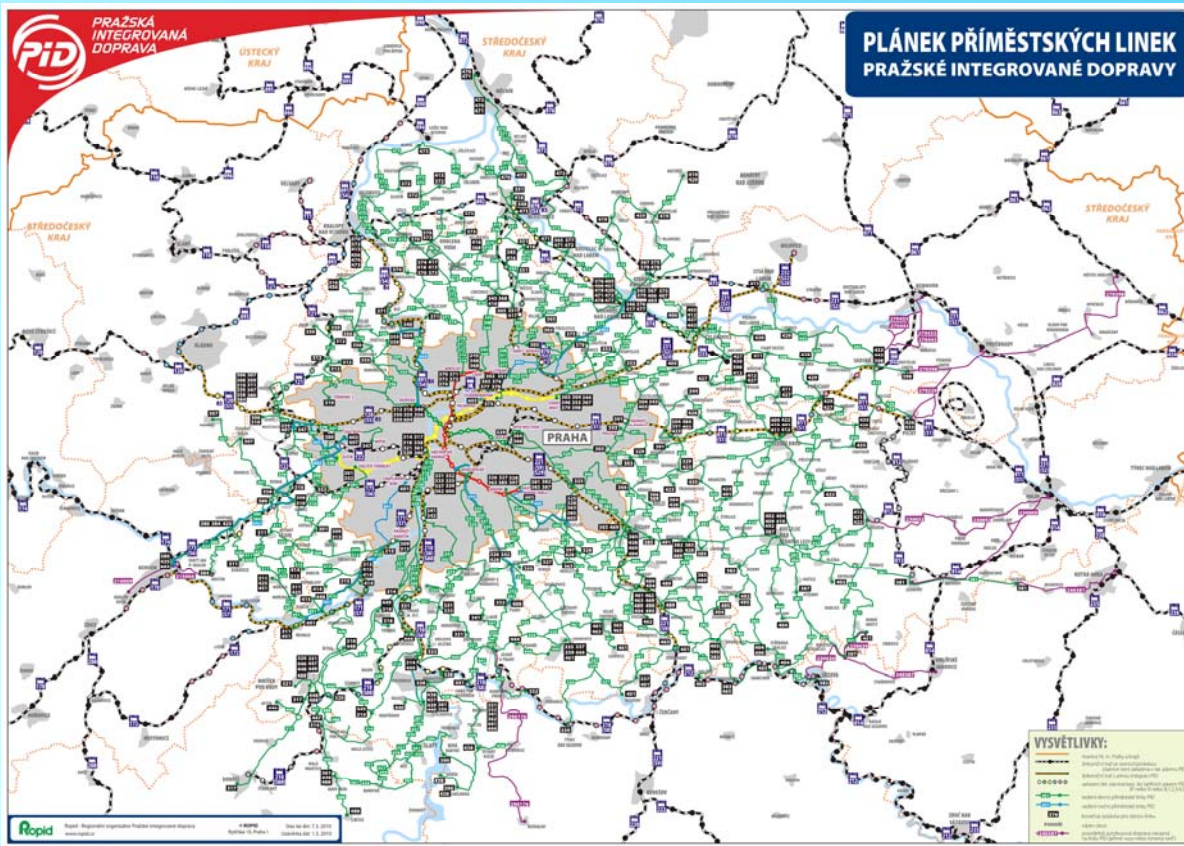
Prague 360M€ regio 12M€



Bucharest, 13.5.2010

jan.spousta@cdv.cz

Prague Integrated Transport System



Regional bus services

152 lines

ca 200 buses (150 „private“)

Rail services

15 „S“ lines

Core lines (Kolín,
Benešov, Beroun,
Kralupy):

15-20 thous passengers
per day

Peak freq – 30 mins

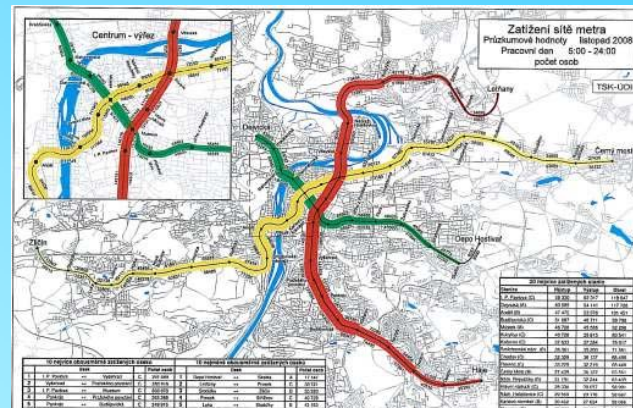
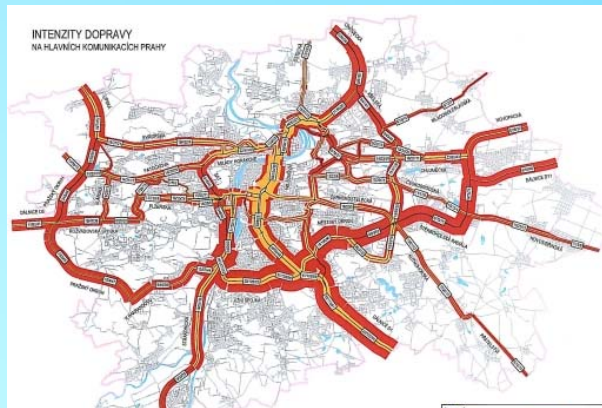
URTP 1990-2010

Bucharest, 13.5.2010

jan.spousta@cdv.cz

EVOLUTION of PUBLIC TRANSPORT in CZ PUBLIC TRANSPORT in CZ

Prague – TRAFFIC FLOWS “Benefits”



ROAD [thous.cars]	PEAK SECTIONS	PT [thous.pass.]
100	NORTH-SOUTH	Metro C: 260-290
60	WEST-EAST	Metro A: 125-160 Metro B: 160-225 Tram IP-KN: 95
100-130	Ring Road (South)	

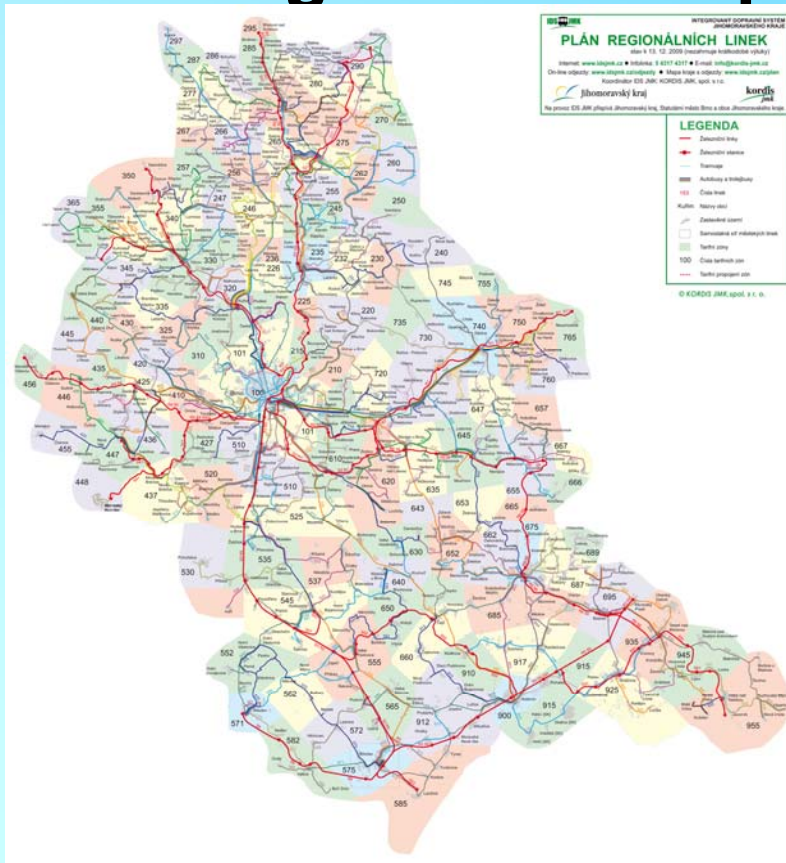
URTP 1990-2010

Bucharest, 13.5.2010

jan.spousta@cdv.cz

EVOLUTION of PUBLIC TRANSPORT in CZ PUBLIC TRANSPORT in CZ

Integrated Transport System South Moravia



Region:

1.15 M inhabitants > 88 % served (1 M)

673 municipalities > 76 % served (513)

Passengers:

Brno 361 mil

Region

Rail 25 mil

Buses 63 mil

other urban services 7 mil

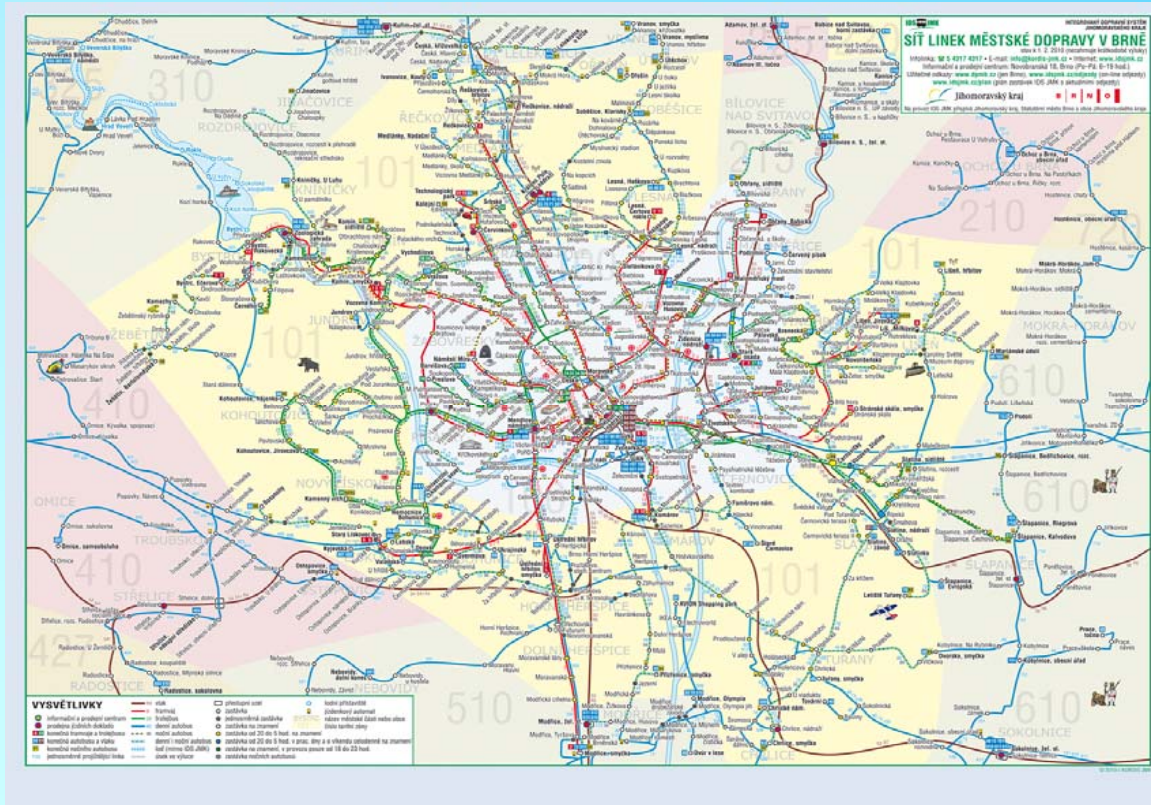
URTP 1990-2010

Bucharest, 13.5.2010

jan.spousta@cdv.cz

EVOLUTION of PUBLIC TRANSPORT in CZ PUBLIC TRANSPORT in CZ

Integrated Transport System South Moravia



City of Brno:

400 th. inhabitants

361 mil passengers

322 trams / 70 km

149 trolleybuses/13 km

303 buses / 331 km

URTP 1990-2010

Bucharest, 13.5.2010

jan.spousta@cdv.cz

EVOLUTION of PUBLIC TRANSPORT in CZ

PUBLIC TRANSPORT in CZ

Accessibility for PRM (People with Reduced Mobility)



Praha

Rail



Plzeň

Liberec



Started in mid-1990s
Now: 40 % of Metro
10-20 % of trams
30-40 % of buses
In small towns almost all
buses
Improvement on rail



URTP 1990-2010

Bucharest, 13.5.2010

jan.spousta@cdv.cz

PROJECT DESCRIPTION

COST* Action TU0603:

Buses with a High Level of Service

Participating **countries**: BE, CZ, FR, DE, EL, IE, IT, NL, PT, RO, ES, SE, CH, UK, UITP

Project **duration**: 10/2007 – 10/2011

Main objective is to increase the public transport use by a better understanding of the BHLS concept and implementation, or in other words, to enhance sustainable mobility by developing new bus services within public transport networks to be able to fight or to compete with car use within Europe.

* **COST** is the *European Cooperation in Science and Technology inter-governmental programme supported by the EU since 1971*

BHLS (BRT) CATEGORIES

FULL – HEAVY – LITE – Improved Bus Lines

	F	L	I		F	L	I		F	L	I
Automatic Vehicle Monitoring	+	+	+	Guidance	+			Branding – identification	+	+	
	+	+		Own “track”	+				+		
Information on board	+	+	+	Dedicated lanes	+	+	+	Hierarchised services	+	+	+
	+	+			+	+			+	+	
Information at stops	+	+	+	Priority at junctions	+	+	+	Service span (all day)	+	+	+
	+	+			+	+			+	+	
Ticketing at stops	+	+	+	Passengers counting	+	+	+	Frequency	+	+	+
	+	+			+				+	+	
Shelters at stops	+	+	+	Enforcement + security	+	+	+				
	+	+			+						
Accessible vehicles	+	+	+								
	+	+									

EU PROJECT COST TU0603 BUSES WITH HIGH LEVEL OF SERVICE SOLUTIONS



Zuidtangent – Essen

Manchester – Praha

Brussel – Madrid VAO

URTP 1990-2010

Bucharest, 13.5.2010

jan.spousta@cdv.cz

THANK YOU FOR YOUR ATTENTION

jan.spousta@cdv.cz

CDV – Transport Research Centre

www.cdv.cz

Head office: Lisenska 33a, 636 00 BRNO

Prague Branch: Thamova 7, 186 00 PRAHA

SOURCES:

COST TU0603: www.bhls.eu

EU: http://ec.europa.eu/transport/index_en.htm **CZ:** www.sydos.cz

PRAGUE: www.tsk-praha.cz, www.ropid.cz **BRNO:** www.idsjmk.cz

URTP 1990-2010

Bucharest, 13.5.2010

jan.spousta@cdv.cz