

Urban mobility in Prague 1989 – 2014

Success story?



Budapest
4.11.2014



Context

Year

1989

2014



Country

Czechoslovakia

Czech Republic

System

Socialism

Democracy

GDP p.c.

8,768 USD

13,097 USD

1 USD

28 Czechoslovak crowns

22 Czech crowns

Av. salary

3,170 CSK (113 USD)

25,500 CZK (1,160 USD)

Inflation

183,3% (1989 – 2013)



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Dopravní podnik
hlavního města Prahy

City of Prague

1989

Area 496 sq kms (0,3% of CS)
Population 1.21 million (8% of CS)
Modal split public transport 75%
car transport 25%
Cars 270 / 1,000 inhabitants

2014

496 sq kms (0,6% of CZ)
1.25 million (12% of CZ)
public transport 57%
car transport 43%
765 / 1,000 inhabitants



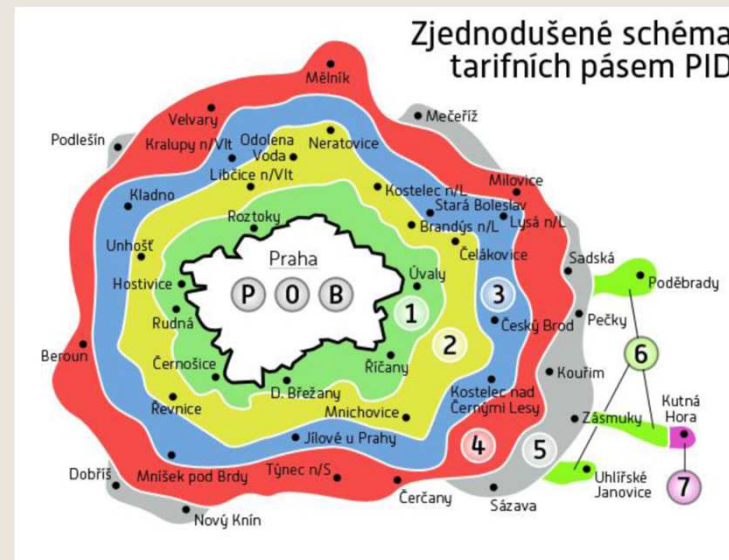
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Dopravní podnik
hlavního města Prahy

Prague Integrated Transport

- Organized by Prague Municipality since 1991
- Area of Capital City of Prague + Prague East District + Prague West District + Central Bohemian Region
- Today 11 tariff zones (up to 70 kms from the City center)
- Prague Public Transit Co., Inc. + 16 other carriers
- Underground, tramway, railway, urban and suburban bus lines, funicular and ferries
- Common tariff conditions
- Timetable coordination



Public Transport in Prague

Metro

1989: 3 lines with 33 km and 33 stations, 2 depots

2014: 3 lines with 59 km and 57 stations, 3 depots

1989: 34% passengers using public transport

2014: 48% passengers using public transport

2014: average age of the fleet – 7.35 years



Tram

1989: 499 km of 27 day / 8 night lines, 8 depots

2014: 518 km of 22 day / 9 night lines, 7 depots

1989: 32% passengers using public transport

2014: 28% passengers using public transport

2014: average age of the fleet – 12.65 years



Bus

1989: 1,900 km of 168 day / 12 night lines, 5 depots

2014: 1,699 km of 119 day / 15 night lines, 5 depots

1989: 33% passengers using public transport

2014: 24% passengers using public transport

2014: average age of the fleet – 8.92 years



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Dopravní podnik
hlavního města Prahy



Prague Public Transit Co. in 1989

- Largest public transport operator in Czechoslovakia
- 100% owned by Municipality of Prague
- 15,969 employees
- Average salary 3,821 CSK (136 USD)
- 527 vehicles in metro (105 trains of 5 wagons + 2 wagons)
- 984 tram cars (0% low floor, 3% articulated)
- 1,422 buses (0% low floor, 24% articulated)
- Basic ticket (1 ride) 1 CSK (USD 0.04)
- Annual ticket for adults 780 CSK (USD 28)
- 1.316 billion passengers per year (3.6 mio every day)



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Prague Public Transit Co. in 2014

- Largest public transport operator in the Czech Republic
- Joint stock company
- 100% owned by Municipality of Prague
- 10,750 employees  - 33%
- Average salary 32,379 CZK (1,472 USD)  + 847%
- 735 vehicles in metro (147 trains of 5 wagons)  + 40%
- 885 tram cars (27% low floor, 23% articulated)  - 10%
- 1,214 buses (64% low floor, 37% articulated)  - 15%
- Basic ticket (90 minutes) 32 CZK (USD 1.50)  + 3,200%
- Annual ticket for adults 4,750 CZK (USD 223)  + 609%
- 1.23 billion passengers per year  - 6%



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Dopravní podnik
hlavního města Prahy

Usage of public transport - **2014**

City	Number of inhabitants	Number of passengers per year	Ratio pass./inh.
Stockholm	1 300 000	260 000 000	200
Dresden	530 000	150 000 000	283
Brusel	1 100 000	330 000 000	300
Berlin	3 400 000	1 050 000 000	309
Paris	11 900 000	4 000 000 000	336
Helsinki	600 000	230 000 000	383
Wien	1 710 000	838 000 000	490
Warsaw	1 800 000	910 000 000	506
Budapest	1 730 000	1 300 000 000	751
Brno (CZ)	378 000	352 274 000	932
Prague	1 246 000	1 230 000 000	987

Source: PPT internal research (2014)



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Dopravní podnik
hlavního města Prahy

Metro rolling stock - 2014

81-71.M (465 wagons / 93 trains) – lines **A** and **B**



Siemens M1 (265 wagons / 53 trains) – line **C**



Tram rolling stock - 2014

T3M (33 cars) T3SU (118 cars) T3R.P (350 cars) T3R.PLF (33 cars)



T6A5 (146 cars) KT8D5.RN2P (46 cars) 14T (59 cars) 15T (112 cars)



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Dopravní podnik
hlavního města Prahy

Fleet of buses - 2014

MIDIBUSES

(50)

5 Ikarus E91 Zeus (H)



Euro III

20 SOR BN 8,5 (CZ)



Euro V

25 Solaris Urbino 8,9 LE (PL)



Euro V

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STANDARD BUSES

(651)



Euro I

5 Karosa 731 (CZ),
1 Karosa 732 (CZ)



Euro II

39 Karosa 931 (CZ)

1 Karosa C934 (CZ)



Euro II a III

298 Citibus/Citelis
(F, CZ)



Euro III

131 Karosa 951



Euro IV

6 IVECO Crossway LE



Euro V

168 SOR NB12

1 SOR BN 12,

1 SOR BN 10,5

ARTICULATED BUSES

(443)



Euro I

21 Karosa 741 (CZ)



Euro II

98 Karosa 941 (CZ)



Euro II a III

50 Citibus / Citelis
(F, CZ)



Euro III

31 Karosa 961 (CZ)



Euro V

241 SOR NB18 (CZ),

2 SOR NBH18 (CZ)

Emission limits of the buses

- EURO emission limits:

Buses	
EURO I	27
EURO II	292
EURO III	360
EURO IV	6
EURO V	458
EURO VI	1
TOTAL	1144



- Plan of fleet renewal
 - Elimination of EURO 1 and EURO 2 buses
 - EURO 1 buses completely eliminated by the end of 2014
 - Purchase of new articulated buses EURO 5

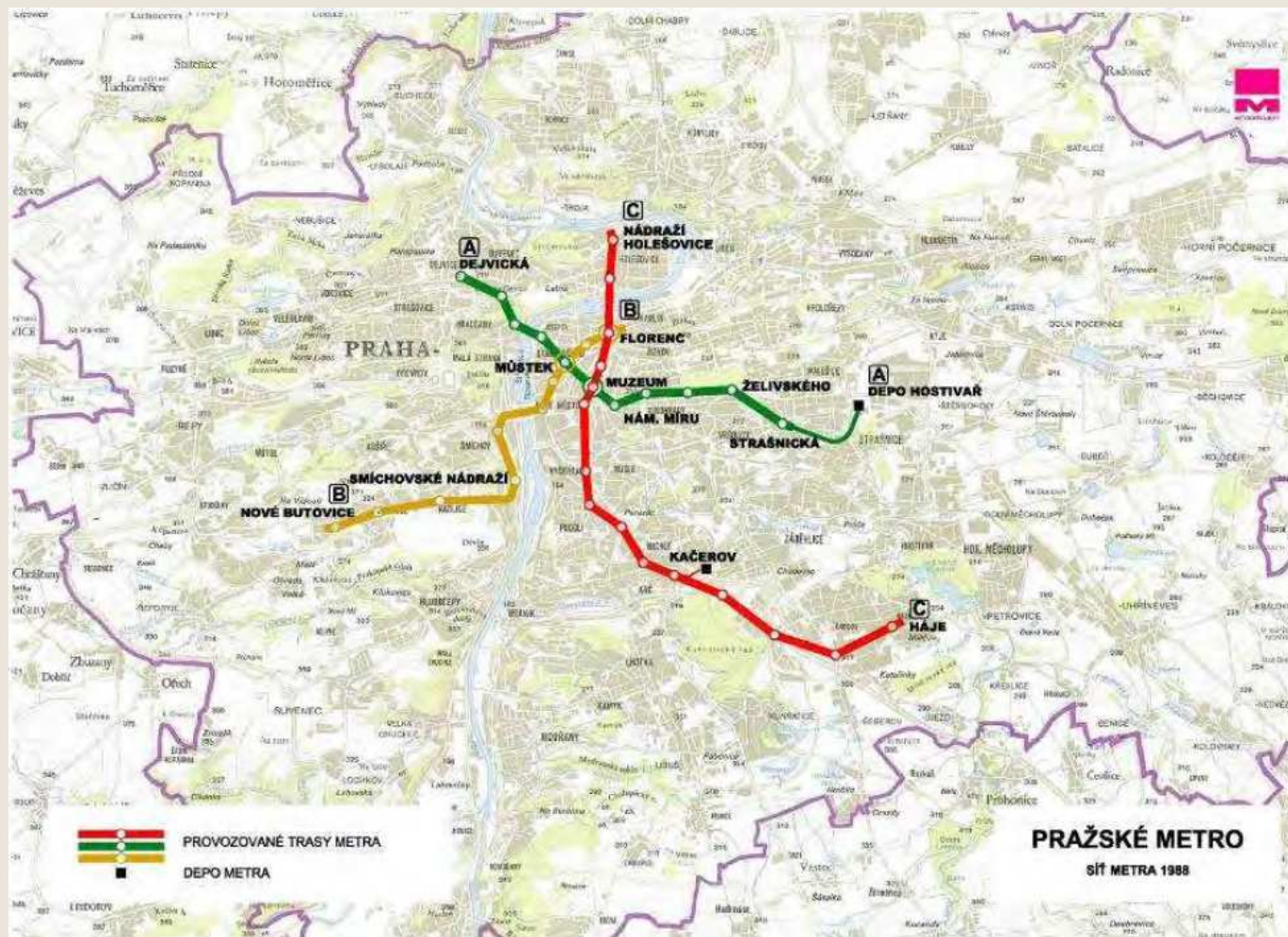


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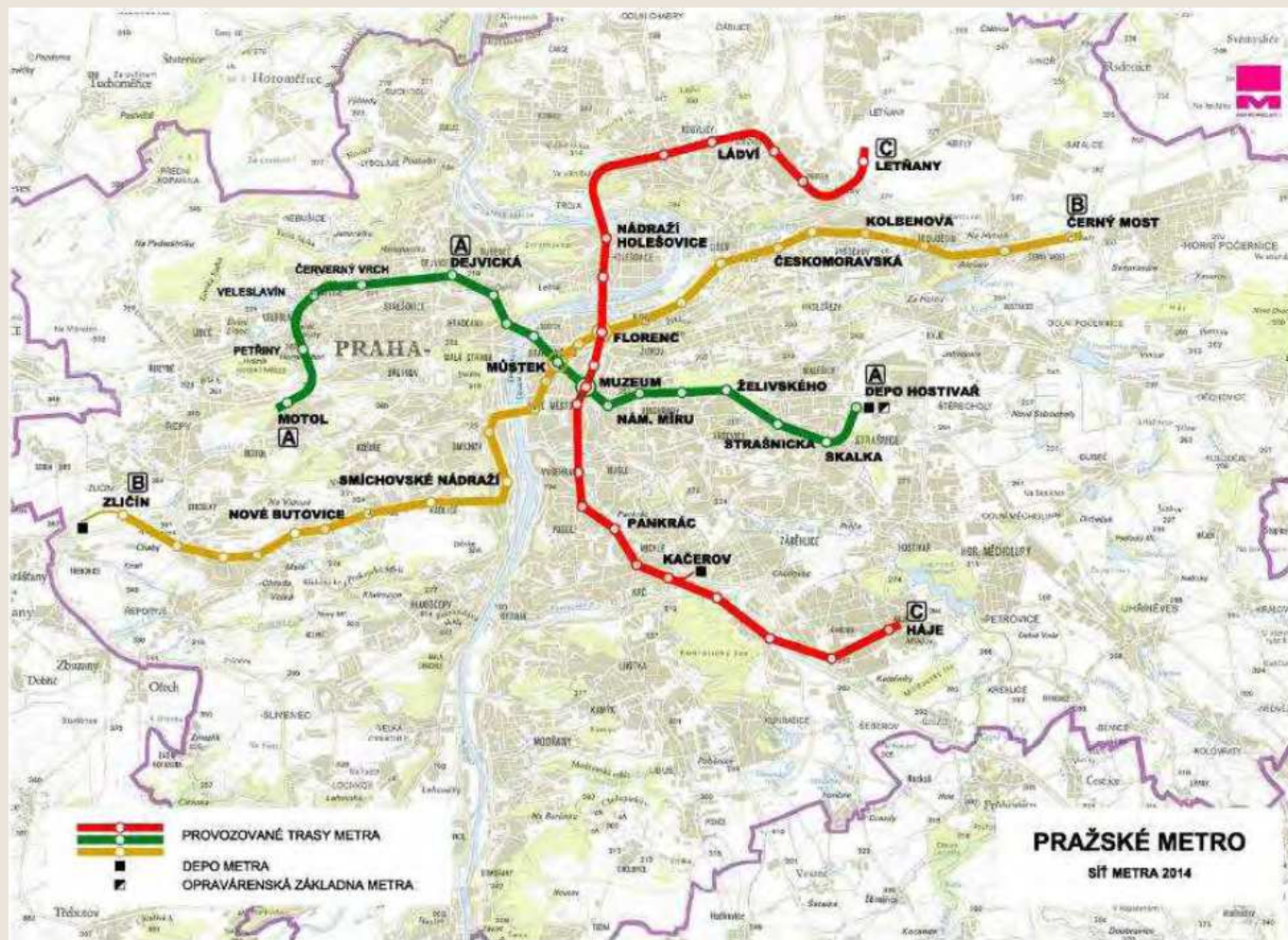


Dopravní podnik
hlavního města Prahy

Metro network development - 1988



Metro network development - 2015



Barrier-free metro access - 2014



infolinka
296 19 18 17
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Dopravní podnik
hlavního města Prahy

Ticketing system

- **Turnstiles in metro network** in period 1974 – 1985
 - Primitive turnstiles for one type of coin only (1 Kčs)
 - Incompatible system with other public transport modes

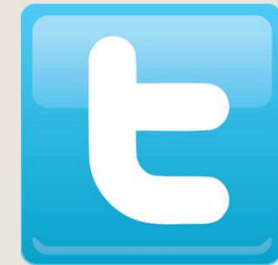
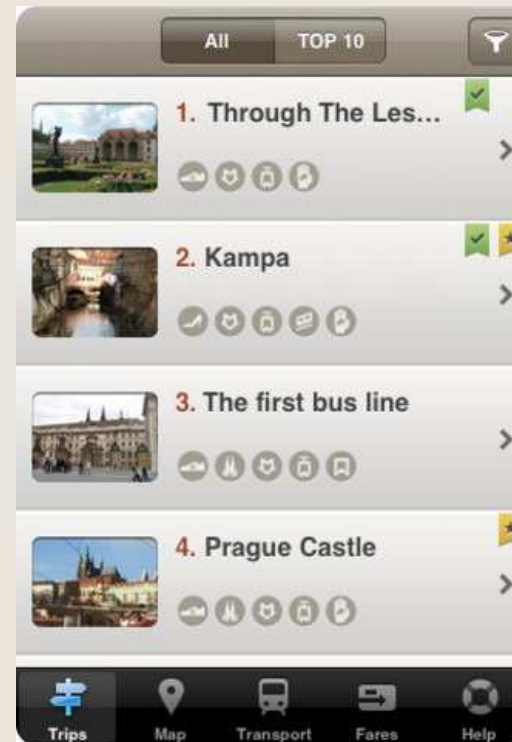


- **Paper short-time tickets and passes** after 1985
- **Smart chipcard „Opencard“** for residents of Prague since 2006
- **SMS tickets** (only for Czech residents) since 2007
- **SEJF Mobile Wallet** since 2013

„New“ and social media

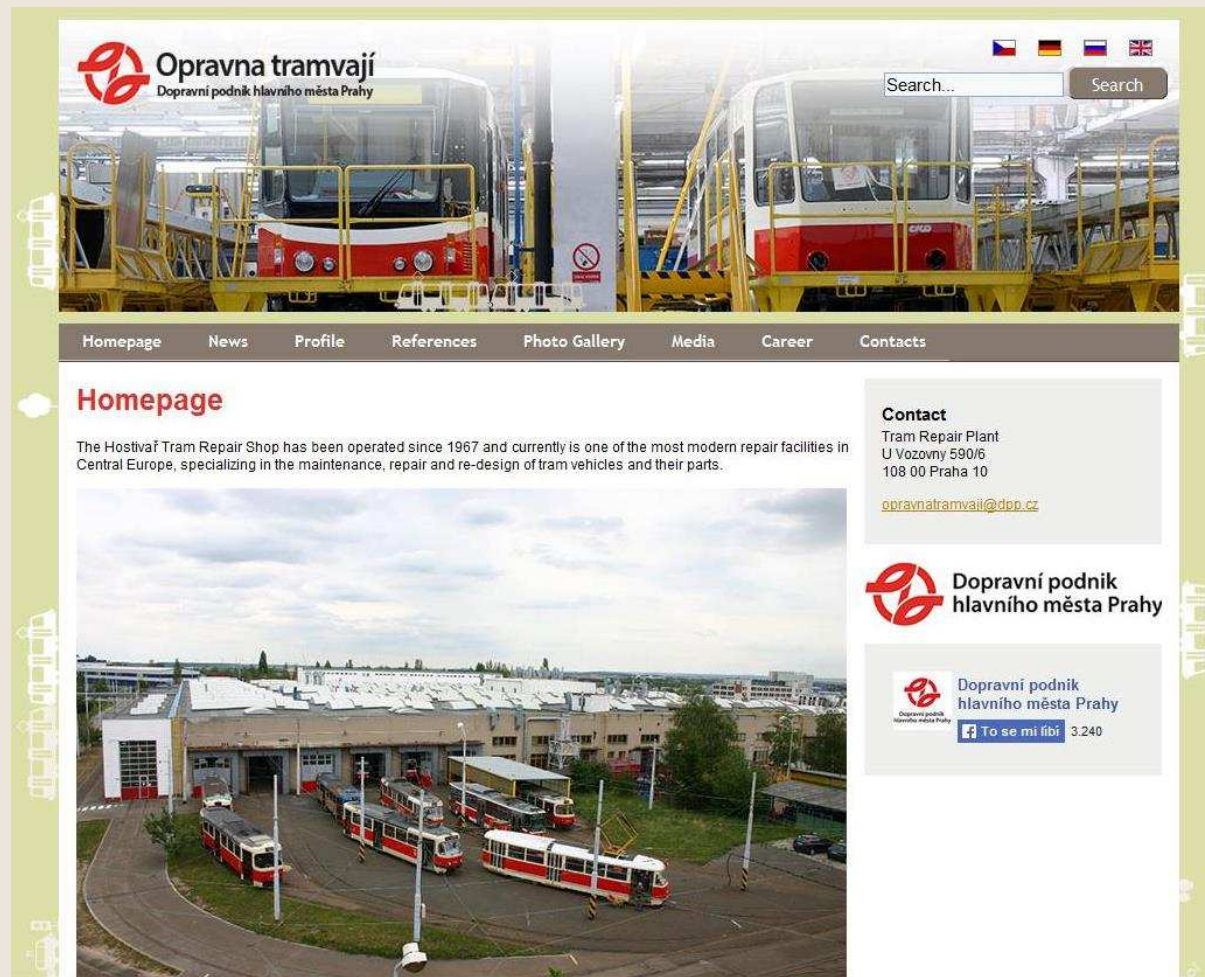


Google maps



Hostivař Tram Repair Shop

www.opravnatramvaji.cz



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Dopravní podnik
hlavního města Prahy

Thank you for your attention

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