



# Central City Access in Prague - Widening of the Environmental Zone for Vehicles over 6t



# Basic Data



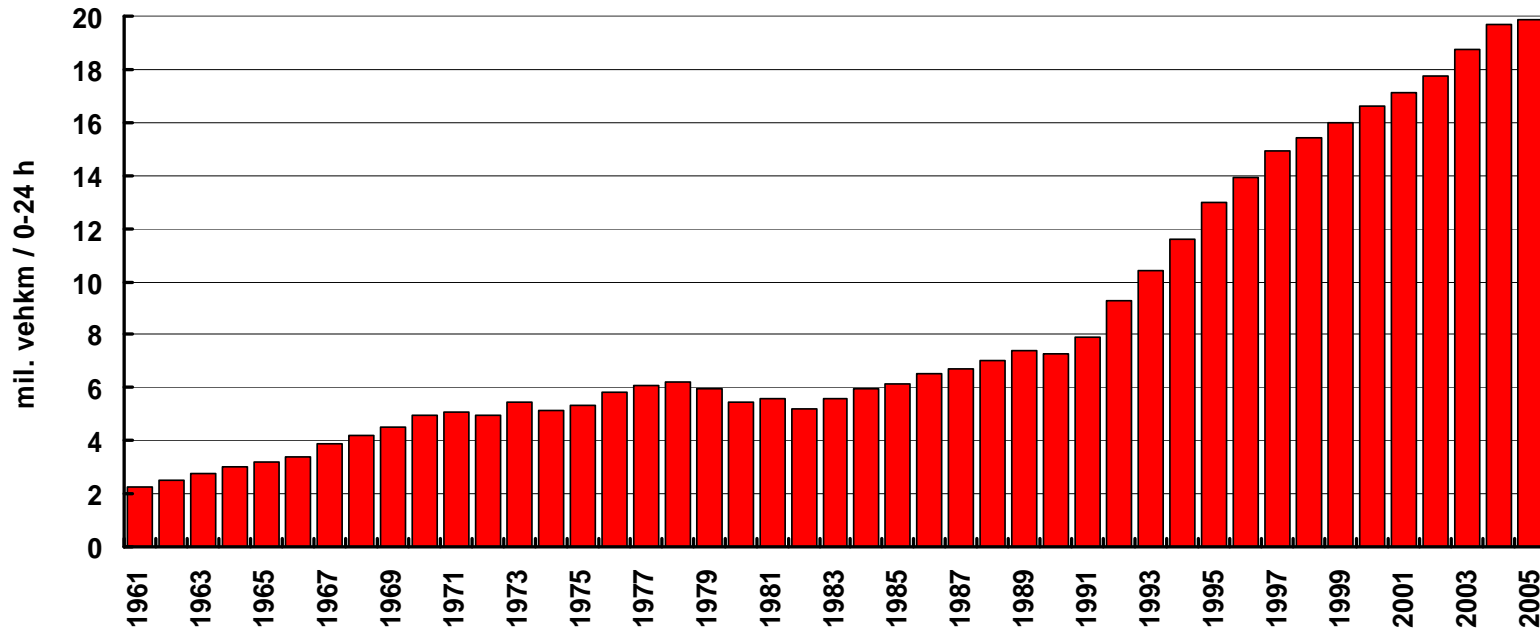
- City area 496 km<sup>2</sup>
- Population 1 188 000
- Job opportunities cca 780 000
- Total road network 3 775 km
- All motor vehicles 761 000
- Passenger cars 606 000
- Public transport network
  - Tram 141 km
  - Bus 682 km
  - Underground 55 km

# Car Traffic Trends in Prague in 1990-2006

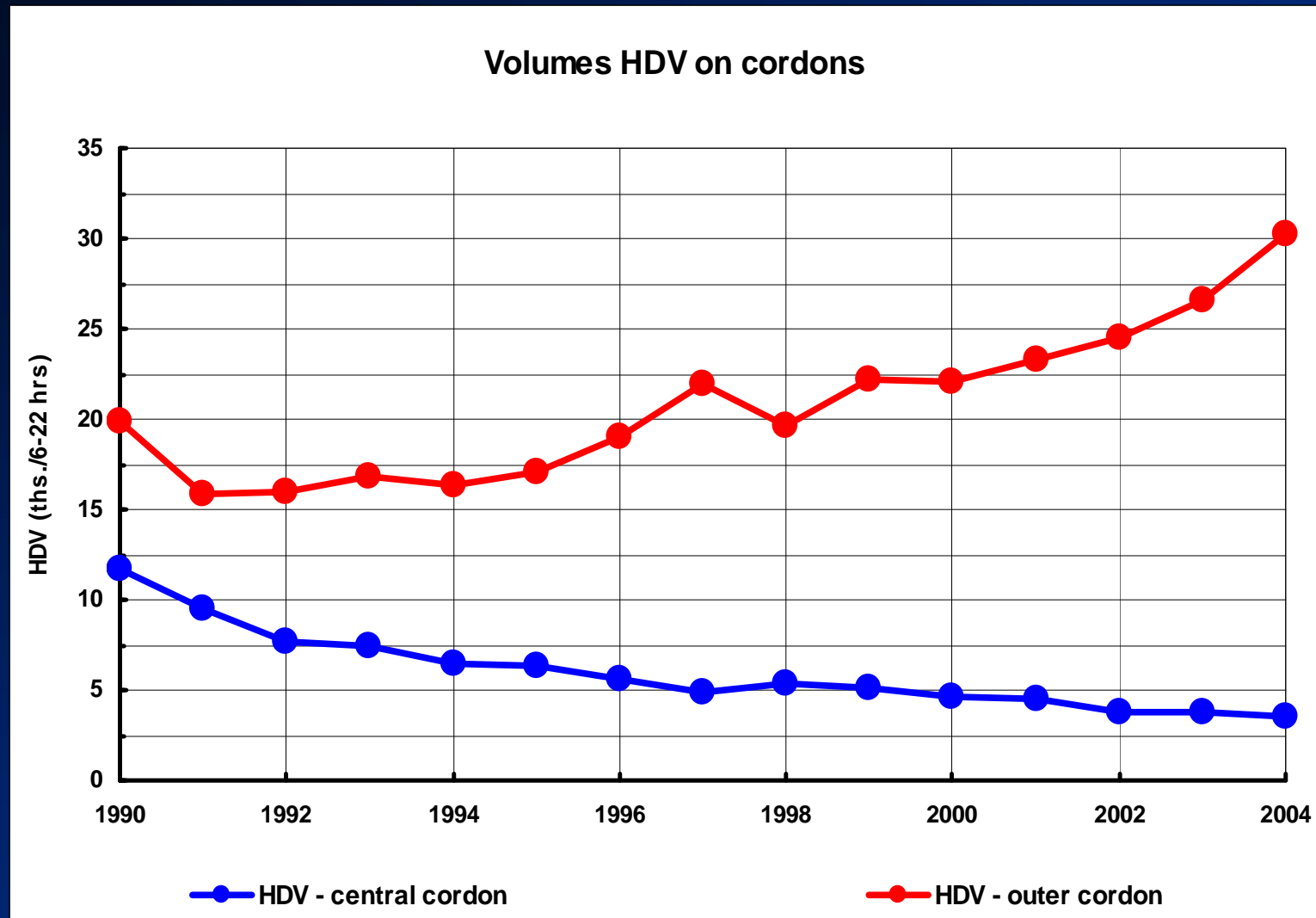
- Registered cars have almost doubled in number.
- The performance (veh. km) has grown more than two times.
- The traffic volumes of heavy vehicles
  - increase on the outer cordon,
  - decrease on the inner cordon.

# Prague Traffic Conditions

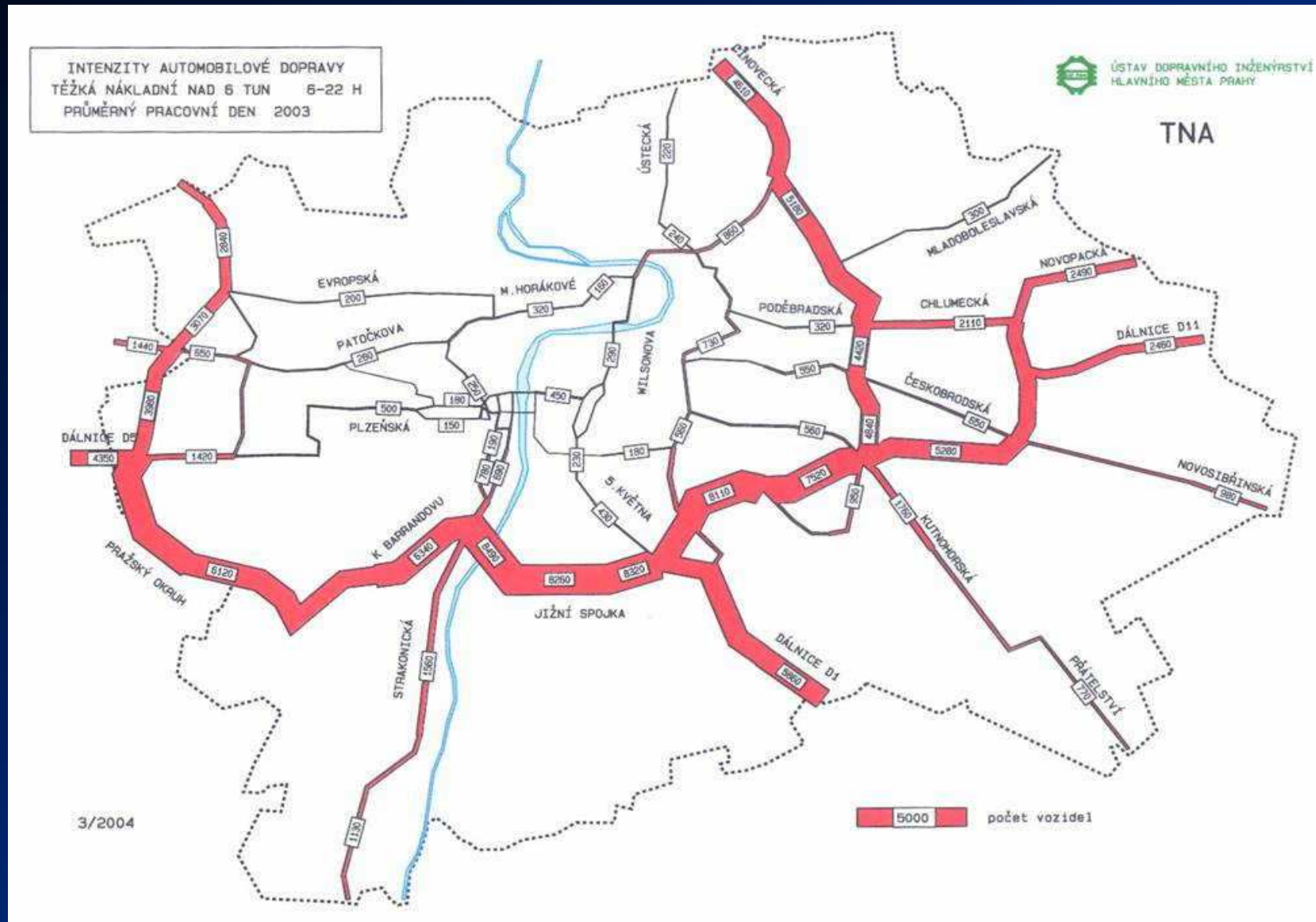
Motor-car traffic vehicle-kilometres development 1961 - 2005



# Volumes HDV on Cordons



# Traffic Volumes HDV 6-22 hrs



# Project Trendsetter



- Project's participantst
  - Stockholm, leading co-ordinator
  - Lille
  - Graz
  - Pecs
  - Prague
  
- Budget of the projects
- Project's frame - reducing emissions
  - Number of measur 47
  - in 8 workpackages
  - 4 Common workpackages ( Overall co-ordination, Integration and technical management, Dissemination and exploitation, Verification and evaluation)

# Trendsetter in Prague



- WP 5 Widening of the Environmental Zone for Vehicles over 6t
- WP 7 Linking different ways of public transport
- WP 11 More adaptive signal control in a bus priority system Graz

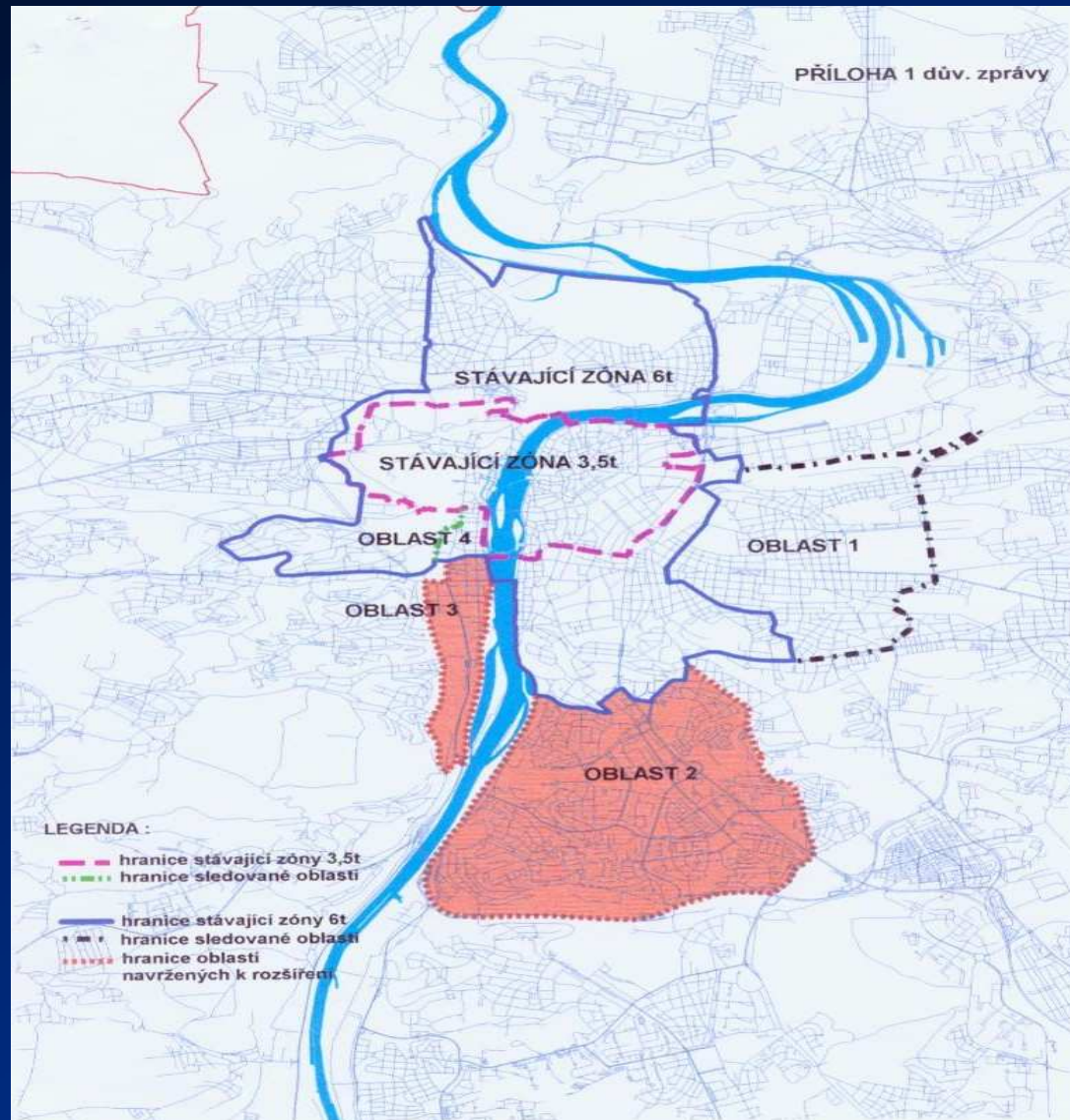


# WP5 Zone Widening



- Extending the regulation effect to a wider area
  - reducing heavy vehicle share in traffic flow
  - reducing emissions
  - reducing the noise
  - enhancing the flow of the traffic

# Expansion of the 6 ton Zone

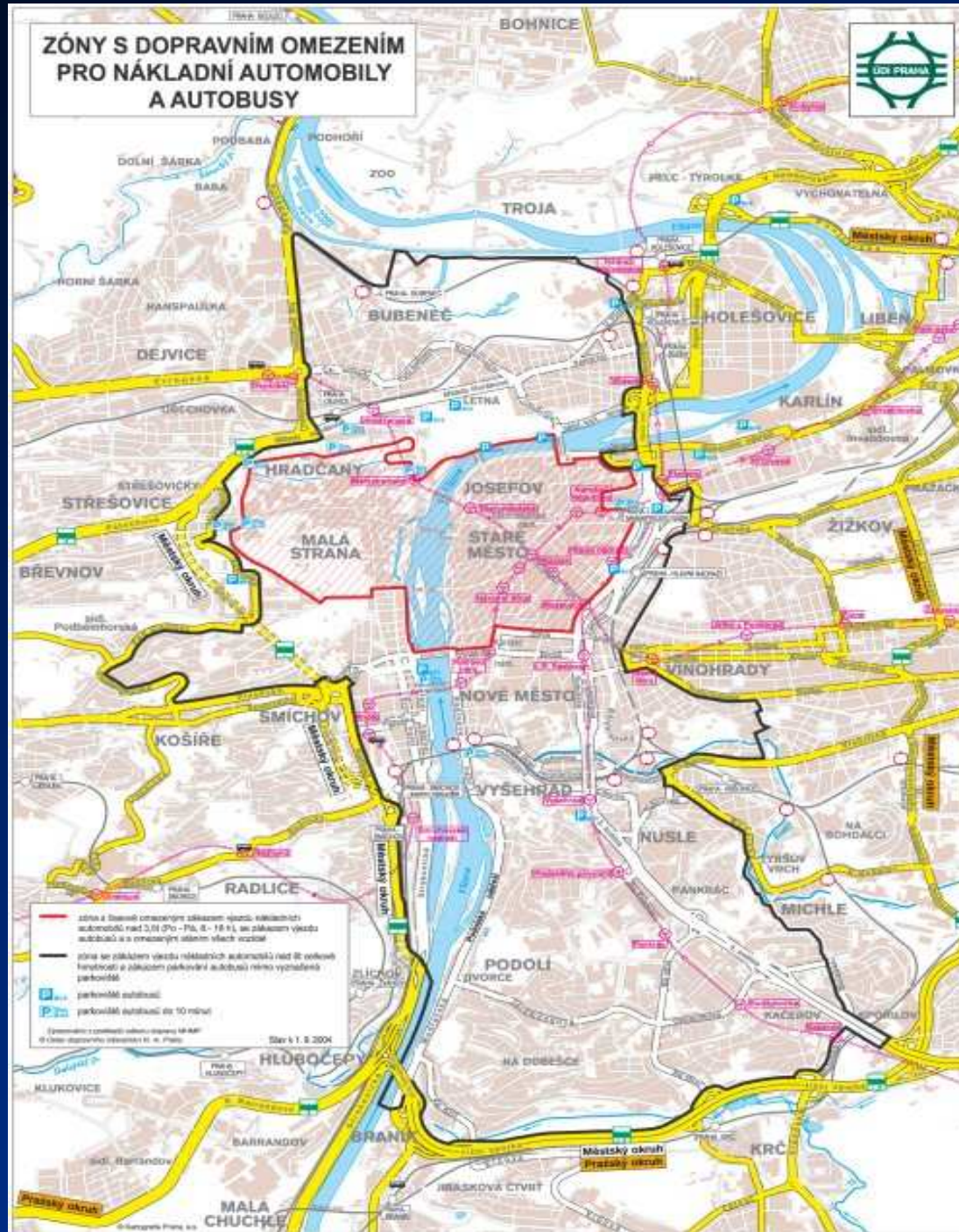


# Project Elaboration Procedure – Expansion of the 6 ton Zone

- Analysis of the base data for the selection of appropriate city zones
- Specification of the city zones for further evaluation
- Survey of heavy goods vehicle traffic in proposed zones
- Evaluation of the survey and an elaboration of the final recommendation for the implementation of the expansion of the existing 6 ton zone
- Proposal of traffic solution for zones selected for expansion
- Information about the proposed 6 ton zone expansion in the press and delivery of info handouts to shops and businesses
- Project elaboration of road signage/ markings
- Implementation of the new environmental zones
- Evaluation of the project 's effects

# Progression of Project Implementation Steps

- 02/2002** Resolution passed by the city council of the capital city of Prague regarding the procedure of project TRENDSETTER implementation
- 07/2002** Resolution passed by the city council regarding the implementation plan of TRENDSETTER project and the participation on CIVITAS initiative
- 06/ 2003** Resolution passed by the city council concerning the report analysis outcome and the proposal for the expansion of the existing 6 ton zone
- 08/2003** Discussion and approval of the proposal for the expansion of the 6 ton zone in the city municipal authorities for Prague 4 and Prague 5
- 09/2003** Resolution passed by the city council concerning the setting up of the expanded 6 ton zone and project implementation for road signage/ markings
- 10/2003** Traffic specification approval and a decision about implementation
- 12/2003** Expansion of a 6 ton zone in the first area
- 05/2004** A survey of heavy goods vehicle traffic after the expansion of the 6 ton zone
- 12/2004** Evaluation of the effect of the 6 ton zone expansion on volume of heavy goods vehicle traffic



# Marking



# Zone Boundary (beginning)



# Zone Environment Conditions



- Characteristics before/after All ride type

freight vehicles	PM (t per year)		NOx (t per year)		CO2 (t per year)		Energy (GJ per year)	
	2002	2004	2002	2004	2002	2004	2002	2004
up to 3,5t	8,75	8,86	72,75	73,02	3740,9	3730,1	50075	49931
3,5t - 6t	7,38	7,28	86,58	85,2	1353,6	1312,6	10714	10390
over 6t	3,18	2,27	69,23	49,54	775,4	555,3	2859	2047
<b>Total</b>	<b>19,31</b>	<b>18,41</b>	<b>228,56</b>	<b>207,76</b>	<b>5869,9</b>	<b>5598</b>	<b>63648</b>	<b>62368</b>
<b>%</b>	<b>100</b>	<b>95,3</b>	<b>100</b>	<b>90,9</b>	<b>100</b>	<b>95,4</b>	<b>100</b>	<b>98</b>



# Exception for vehicles over 6t/3.5t

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- Proposal of traffic solution for zones selected for expansion
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# Running of the environmental zone

- The exceptions to the access restriction zones are issued strictly only by Transport department of the City Hall of Prague
- Using two kinds of exceptions:
  - short-term ( max. 7 days)
  - long-term ( 1 year)
- Checking by Police of Czech Republic
- Regulation from the year 2007:
  - for the inner zone over 3,5 tons only for vehicles with EURO 2 and better
  - end of long-term exceptions for buses

# Number of exceptions

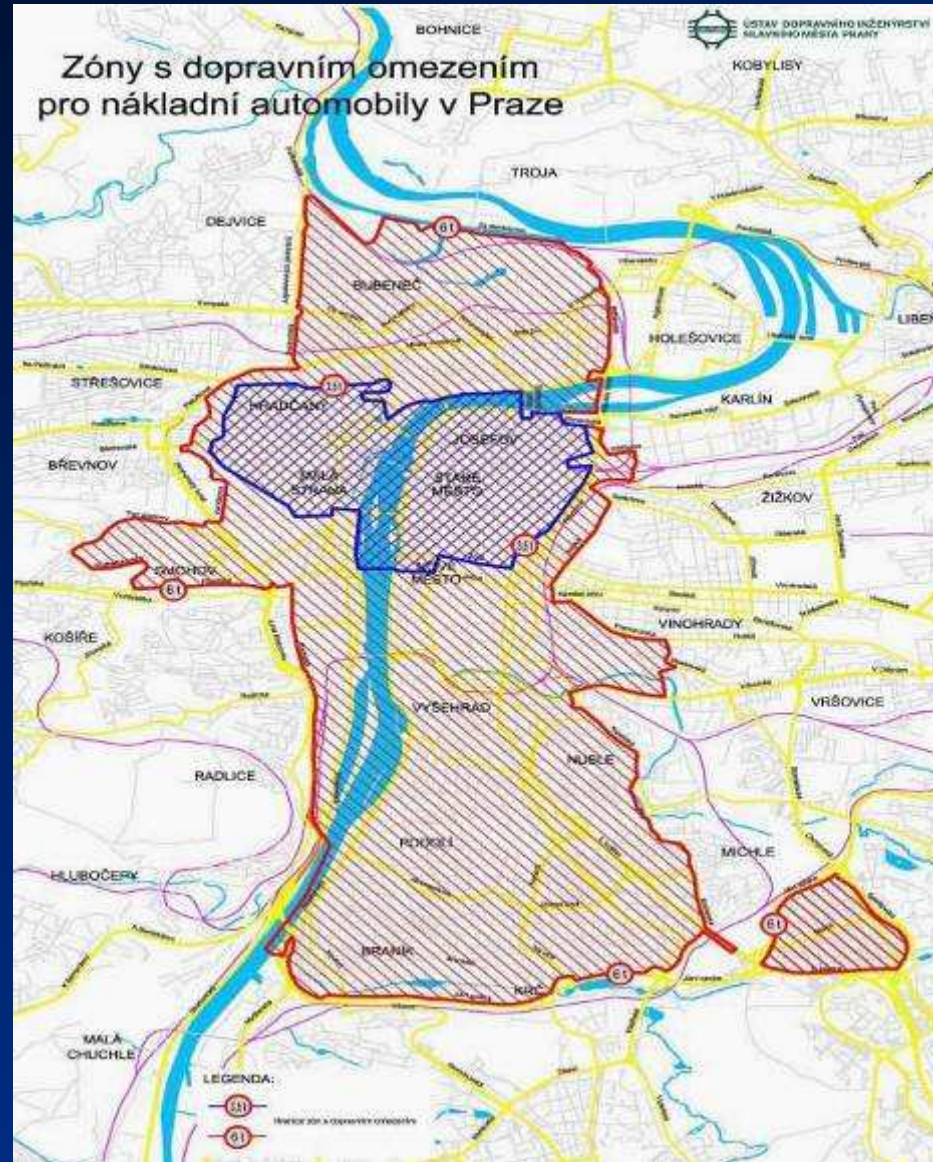
year	Zone over 3,5 t and buses		Zone over 6 tons	
	Short-term	Long-term	Short-term	Long-term
2004	4 419	2 416	721	4 194
2005	3 282	2 713	815	4 557
2006	2 820	2 830	780	6 994

# Further Progress of Project— Expansion of the 6 ton Zone



- Elaboration of Local Evaluation Plan
- Application of experiences from Trendsetter on further restriction of heavy lorries traffic in Prague

# New application out of Trendsetter





*Thank you for your attention*

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