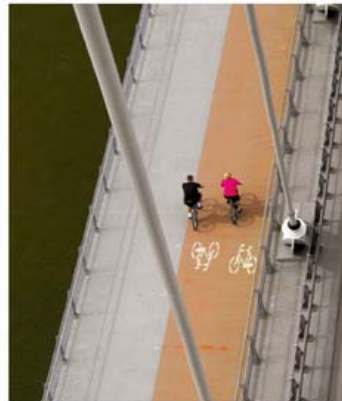


Warsaw Transportation System



Mieczysław Reksnis
City of Warsaw



Transportation Policy

THE TRANSPORTATION
SYSTEM OF WARSAW:
*SUSTAINABLE DEVELOPMENT
STRATEGY*

*up to the year 2015 and
successive years
including*

*THE SUSTAINABLE
DEVELOPMENT PLAN
FOR WARSAW'S PUBLIC MASS
TRANSIT SYSTEM*

<http://strategiatransportowa.um.warszawa.pl>

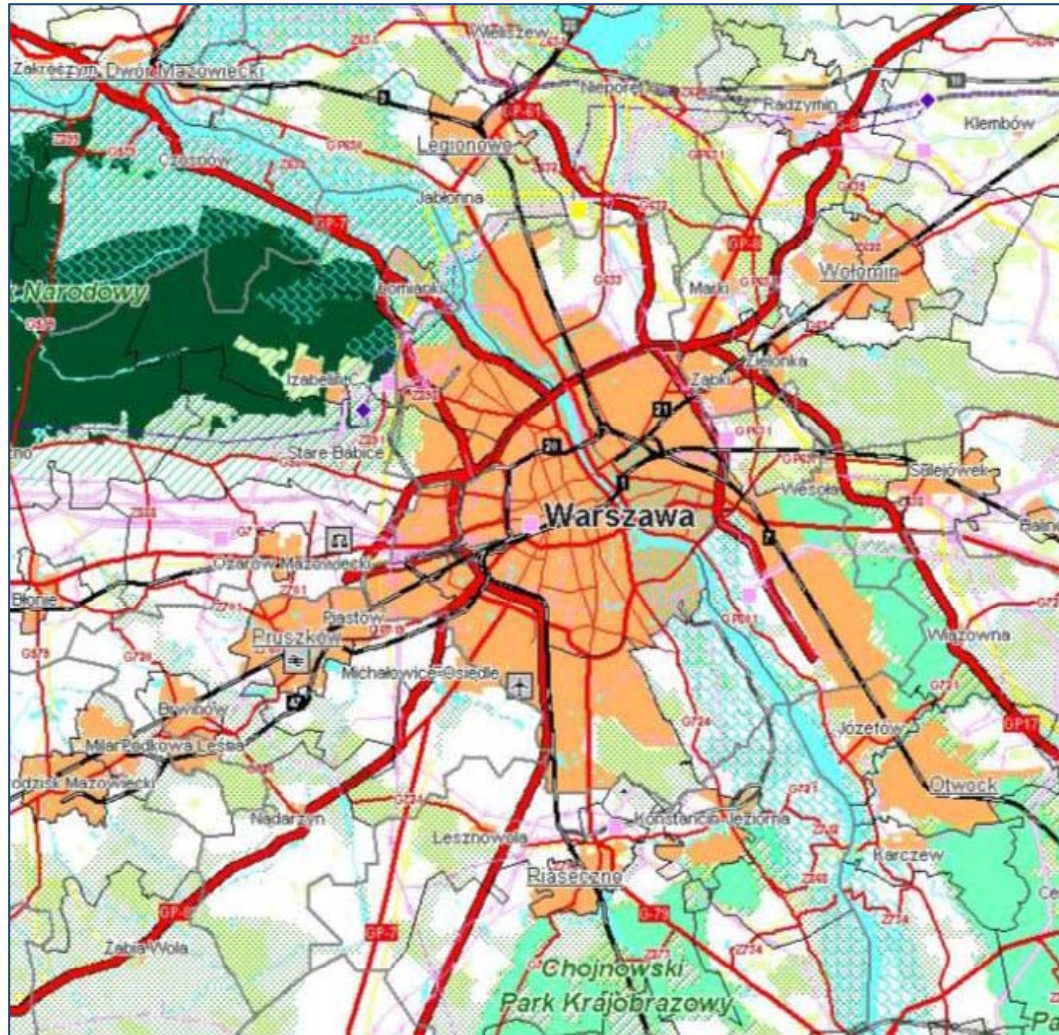


City of Warsaw

- Area-517 sqkm
- Inhabitants:
 - Official number according to the records-1.7 million
 - Experts estimation-1,96 -2.5 million
- Average income 4 650 PLN (3700 PLN Poland)
- Unemployment rate is 4.4%
- City of Warsaw – one borough
- 18 City districts
- 60 councillors
- Mayor of Warsaw
- Metropolitan Area - 2.6 million



Warsaw Agglomeration



- Districts surrounding Warsaw - nearly 1 million citizens
- Warsaw agglomeration is composed of localities situated alongside railways

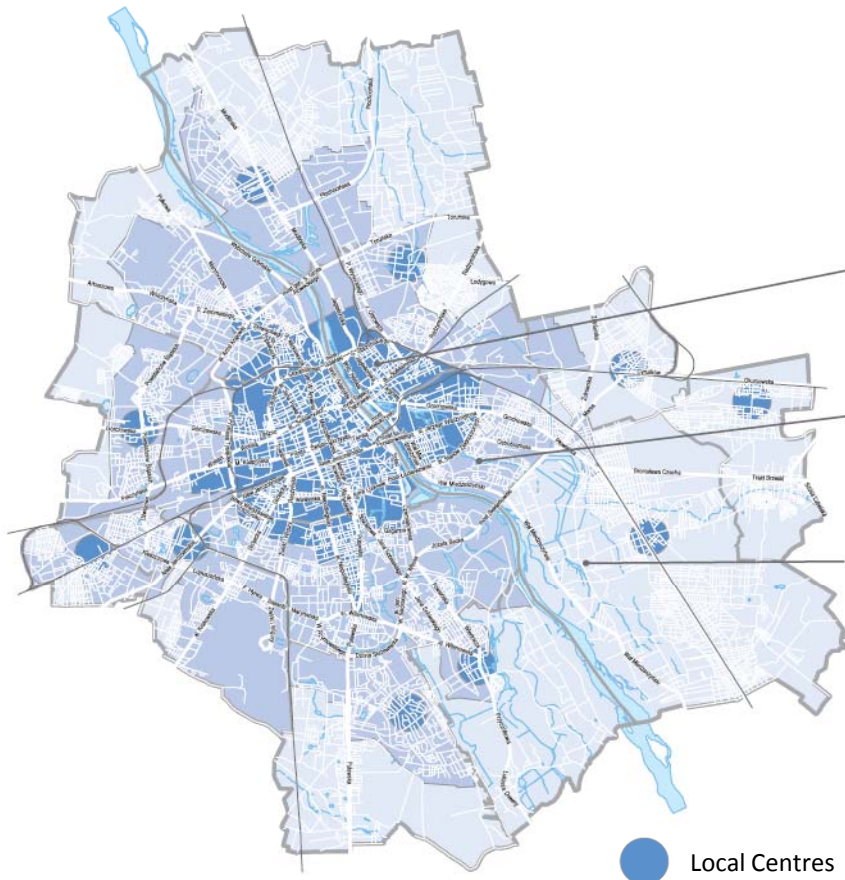
Transportation Policy *overall goal*

- The overall goal of Warsaw's transportation policy is the improvement and development of the transportation system so as to create conditions fostering the efficient and safe movement of people and freight while limiting its detrimental impact on the natural environment and living conditions.



City zones

- Area of the city is divided into zones with different parking standards, and use public transport
- The hierarchic structure of city roads is introduced



Downtown Zone



Urban Zone



Suburban Zone



Public Transport

- Warsaw Public Transport Authority (*Zarząd Transportu Miejskiego w Warszawie*):

- Underground - Metro Warszawskie Sp. z o.o (MW),
- Tram - Tramwaje Warszawskie Sp. z o. o. (TW),
- Busses -



- Miejskie Zakłady Autobusowe Sp. z o.o. (MZA)

- *city owned company*

- ITS Michalczewski
- Mobilis
- PKS Grodzisk Mazowiecki



- Rail:

- Szybka Kolej Miejska Sp. z o.o (SKM), (*Urban Rapid Rail, Ltd.*)
- Koleje Mazowieckie – KM Sp. z o.o. (*Mazovian Rail, Ltd.*)
- Warszawska Kolej Dojazdowa Sp. z o.o. (*Warsaw Suburban Railway*)



Public Transport

Railways System

- Total railroad length used in passenger transportation in the Warsaw area amounts to 93 kilometers.
- The entire network consists of eight train stations and 40 stops.
- The major passenger stations include Warszawa Centralna, Warszawa Zachodnia, Warszawa Wschodnia, Warszawa Śródmieście, Warszawa Gdańska, and Warszawa Wileńska. All lines are electrified and two-track



Public Transport

Tramway system:

- Tramwaje Warszawskie Sp. z o.o.
 - The tram network is made up of 124.1 km of tramlines, operated along 24 permanent tram routes with a total length exceeding 345 km.
 - Rolling stock: 780 cars; 186 new low-floor single-space SWING trams

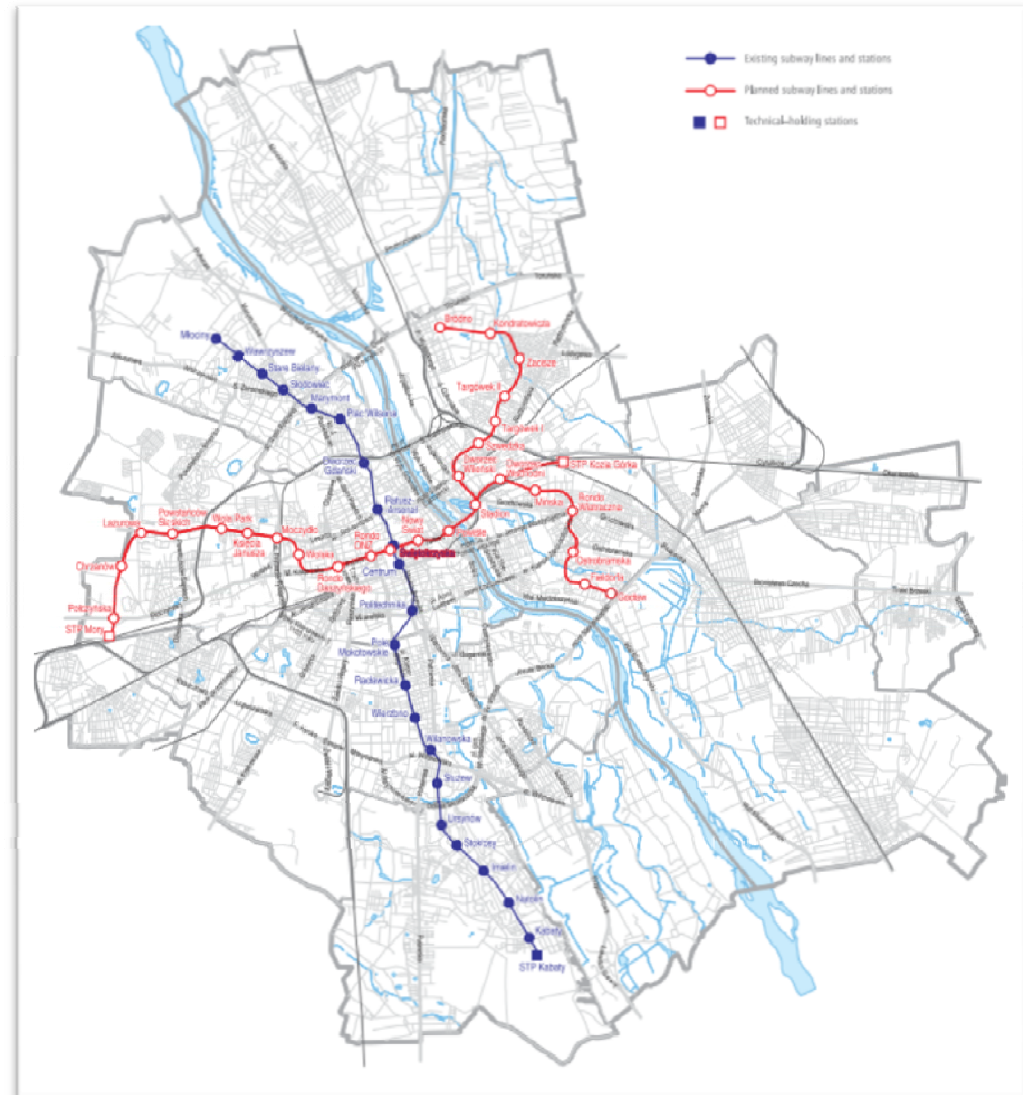


Public Transport



Underground System:

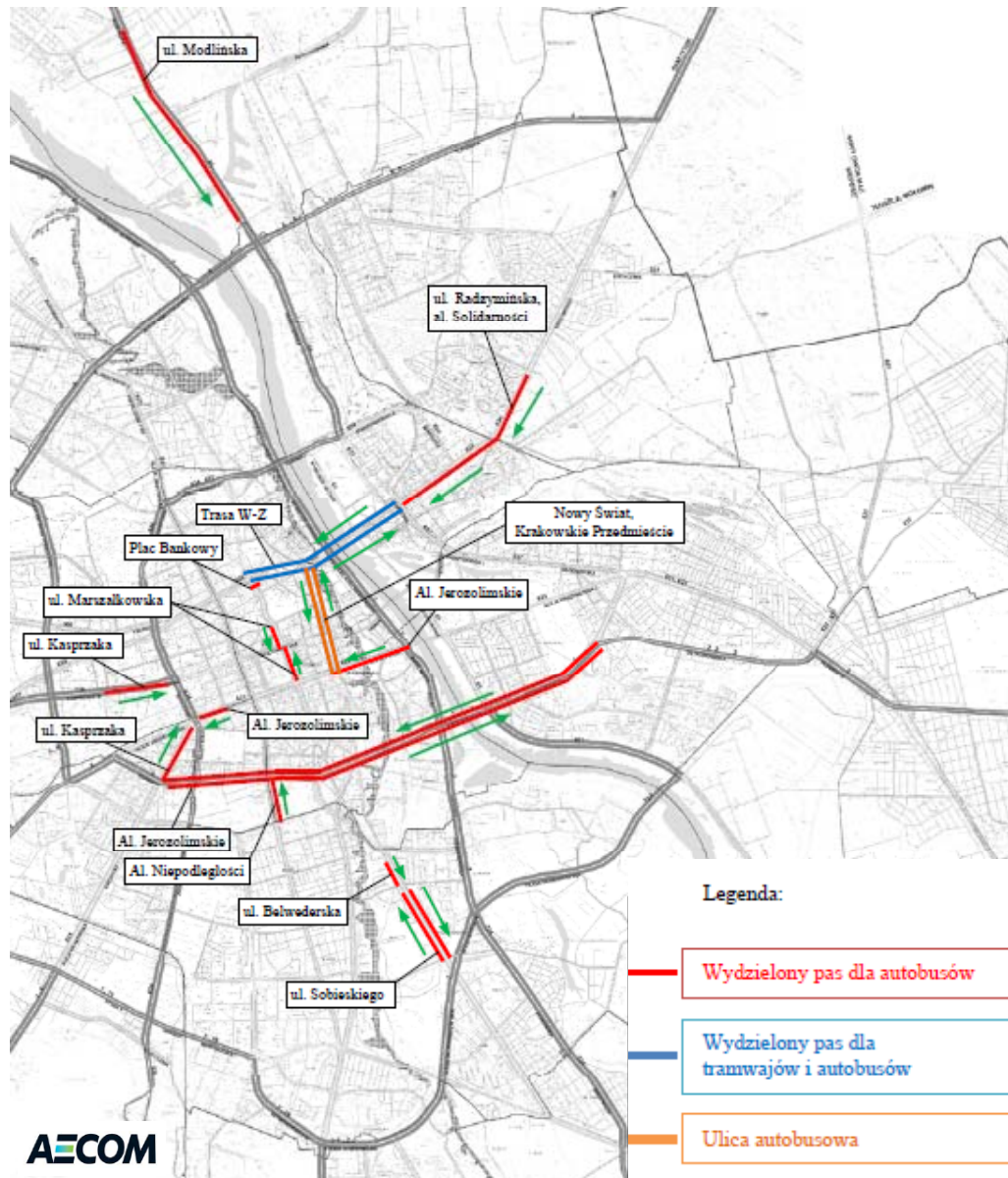
- **Metro Warszawskie**
 - Warsaw has one underground line of a length of 23 km served by 21 stations
 - The Metro Warszawskie serves over 500,000 people daily.
 - 240 cars:
 - 132 Wagonmasz
 - 108 Alstom Konstal
 - On average, the trains run every three minutes during the rush hours on weekdays
 - The construction of Line II of the metro was launched in 2010
 - New Siemens trains (one-space) under construction



Public Transport - *the combined ZTM-KM-WKD ticket*



Bus Lanes



Bus Lanes

- 30 km

Nr odcinka	Ulica	Odcinek		Długość [mb]
		od skrzyżowania z	do skrzyżowania z	
1.	Trasa Łazienkowska	Kinowa	Grójecka	6 980
2.	Trasa Łazienkowska	Grójecka	Kinowa	6 980
3.	Modlińska	Światowida	EC Żerań	3 500
4.	Radzymińska – Al. Solidarności	Trocka	Targowa	2 700
5.	Sobieskiego	Gierymskiego	Idzikowskiego	1 100
6.	Sobieskiego	Idzikowskiego	Gierymskiego	1 100
7.	Al. Jerozolimskie	wiadukt mostu J. Poniatowskiego	Nowy Świat	1 000
8.	Al. Jerozolimskie	Nowy Świat	wiadukt mostu J. Poniatowskiego	1 000
9.	Kasprzaka	Bryłowska	Towarowa	880
10.	Grójecka	Wawelska	Plac Zawiszy	870
11.	Al. Solidarności	Szwedzka	Targowa	850
12.	Al. Niepodległości	Batorego	Trasa Łazienkowska	570
13.	Marszałkowska	Widok	Świętokrzyska	500
14.	Belwederska	Grottgera	Dolna	300
15.	Al. Jerozolimskie	Żelazna	Plac Zawiszy	225
16.	Marszałkowska	Królewska	Świętokrzyska	300
17.	Plac Bankowy			290
Łącznie				28 295

Bus-Tram Lanes



Bus Lanes



Autobusy jechały Trasą Łazienkowską, auta stały w korku (© Dawid Parus/POLSKA)

Parking

- **PAID PARKING**
 - Since July 1999 Warsaw has a Paid Parking Zone
 - extended after ten years of operation in July of 2009 to cover additional regions of the city,
 - next extention - 1st of April 2013
 - 29,5 thousands parking places
 - The current rates are as follows:
 - First hour – PLN 3.00,
 - Second hour – PLN 3.60,
 - Third hour – PLN 4.20,
 - Each successive hour – PLN 3.00
 - The level of prices determined by the Parliament Act!!!



Strefa Płatnego Parkowania
Niestrzeżonego w Warszawie



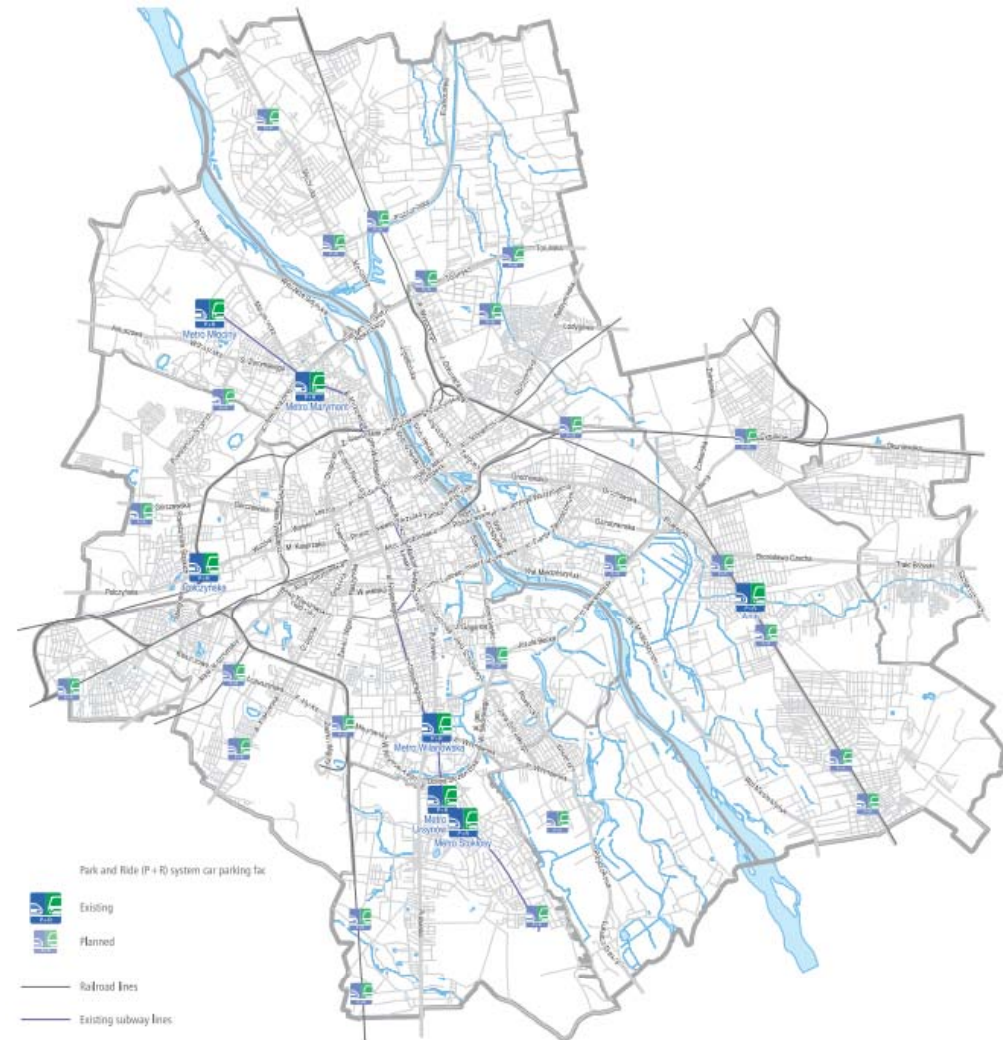
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Legenda
Parkowanie
Niestrzeżone 2013
Strefa płatna

Parking

PARK AND RIDE (P+R)

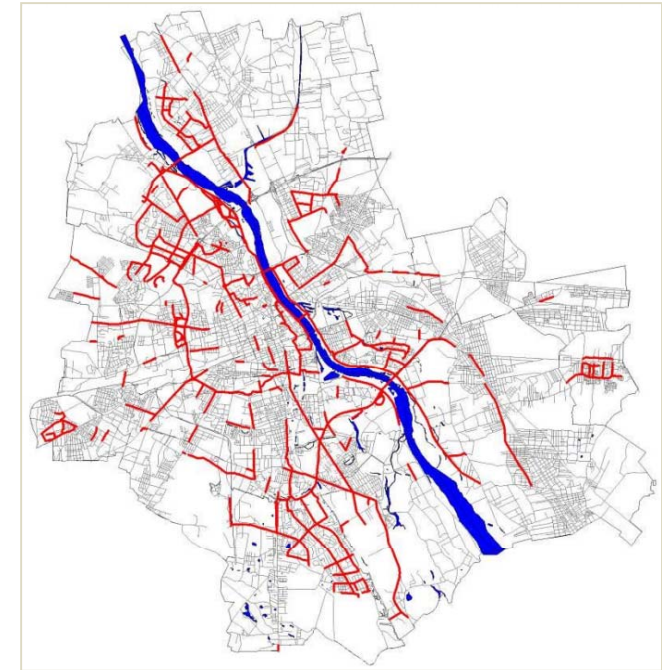
- There are thirteen P+R facilities in Warsaw,
- The total number of parking places – more than 4000,
- Five of them are located next to subway stations—Młociny, Marymont, Wilanowska, Ursynów and Stokłosy,
- The remaining are located near railway, bus and tram interchange points,
- There is a plan to extend the P+R system to 35 objects



The P+R parking facility locations – existing and planned automobile parking areas

Cycling

- In 2012, the length of cycle paths compared to 2010 increased by 24%, number of parking spaces by 130% and the number of parking spaces by 200%
- In 2012 compared to 2009 cycling increased by more than 110%.
- The increase in the intensity of the peak morning was as high as 160%, which indicates a significant increase in travel to and from work

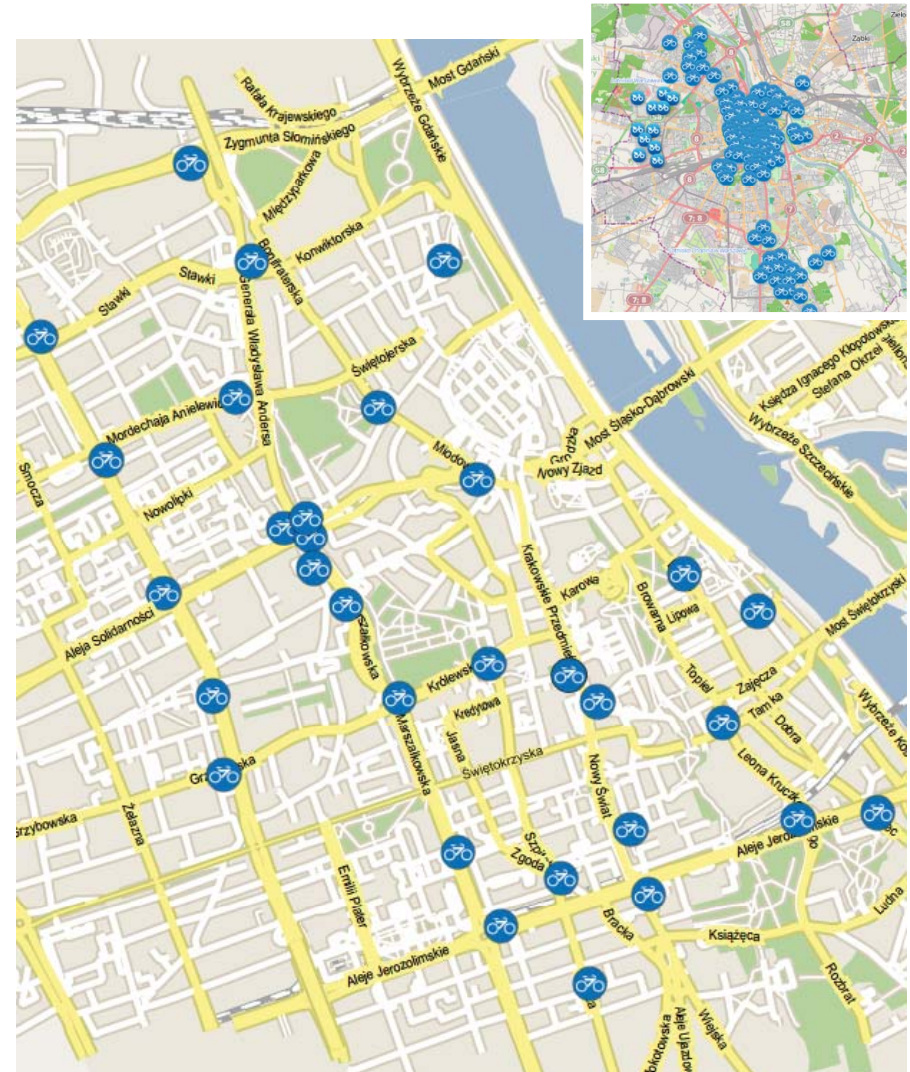


Cycling infrastructure	2010	2011	2012
Cycle paths	275km	310km	340km
Number of bicycle racks	117	197	267
Number of parking places for bicycles	970	2100	2900

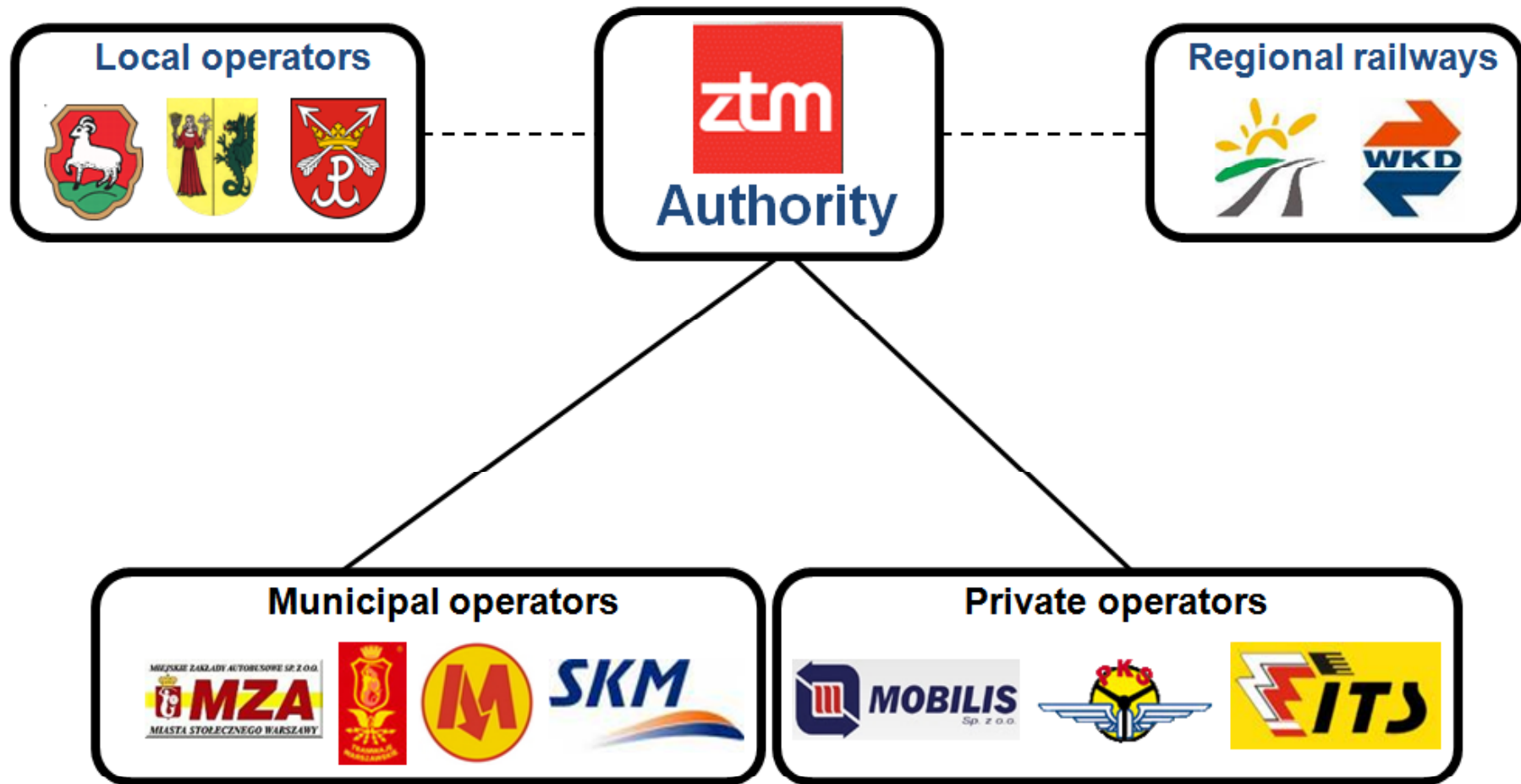


Cycling - Veturilo

- 1 st of August, 2012 the city public bicycle system "Veturilo" was launched
- 58 stations and 1,050 bicycles
- In 2013 „Veturilo” system will be extended to 180 stations and 2800 bicycles
- It could makes the Warsaw city public bicycle system sixth in Europe after Paris, London, Barcelona, Lyon and Ruhr



PT management scheme



Funding sources

- Municipal budget,
 - long-term contracts for the performance of transport services concluded with the carriers: MZA until 2017, the SKM 2024, TW and Metro to 2027,
- EU-funds,
- Bank credits (e.g. EBRD),
- Bonds,
- Contribution of municipalities served
 - 30 boroughs and 1 county



Costs

- Running the whole public transport system in Warsaw – ca. 2,5 billion PLN (ca. 600 million €) yearly
- Development of the metro system – more than 4 billion PLN (ca. 1 billion €)
- Modernization of the rolling stock – more than 4,4 billion PLN (1,1 billion €)
- Development of the tram system – almost 400 million PLN (almost 100 million €)
- Improvement of the rail system – almost 100 million PLN (ca. 25 million €)



Rolling stock & Performance

(appr., yearly)

- Buses:
 - 2000 vehicles,
 - 725 km routes,
 - 500 million passengers,
 - 120 million vkm,
- Trams:
 - 850 vehicles,
 - 125 km routes,
 - 220 million passengers,
 - 52 million vkm,
- Metro:
 - 40 trains,
 - 23 km route,
 - 170 million passengers,
 - 26 million vkm,
- Urban rail:
 - 25 trains,
 - 85 km routes,
 - 60 million passengers,
 - 8 million vkm,



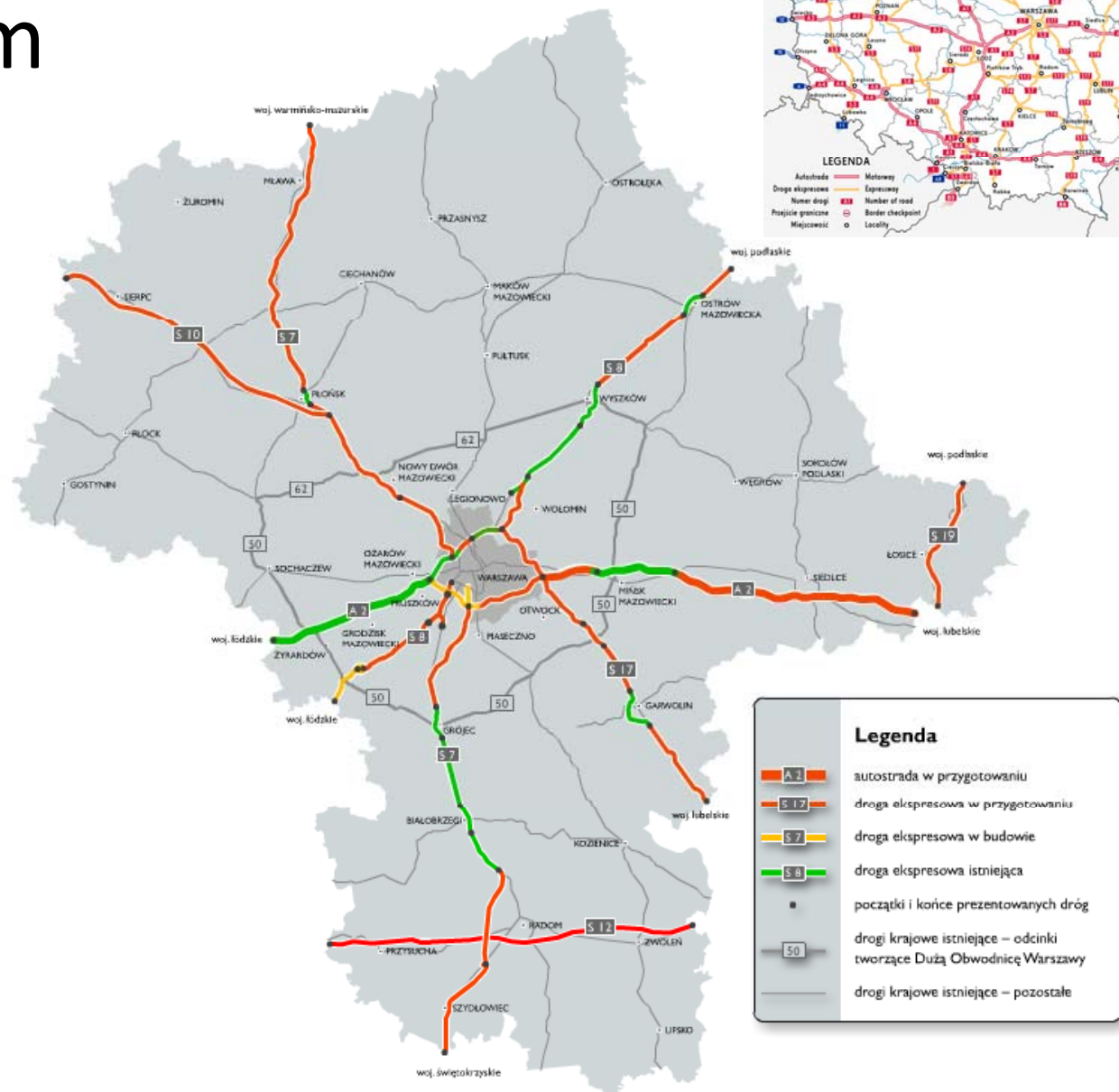
Plans for the future

- Completing the II Metro line
- Completing renewal of tram fleet
- Fully eco-friendly bus fleet
- Expanding Urban Rail network
- Extending P+R system



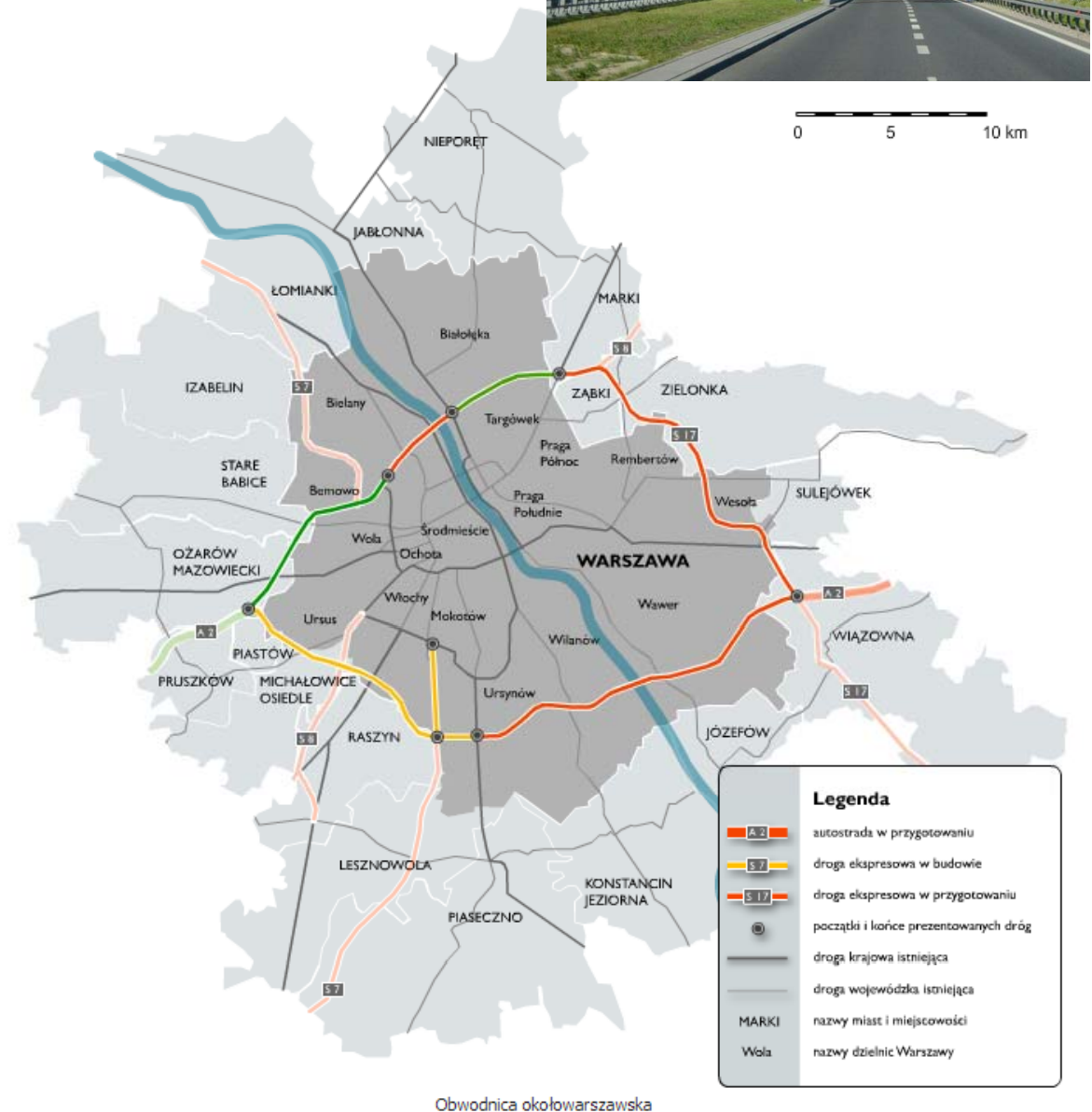
Road System

- The government transport infrastructure development strategy and plans concerning construction of motorways and express roads.



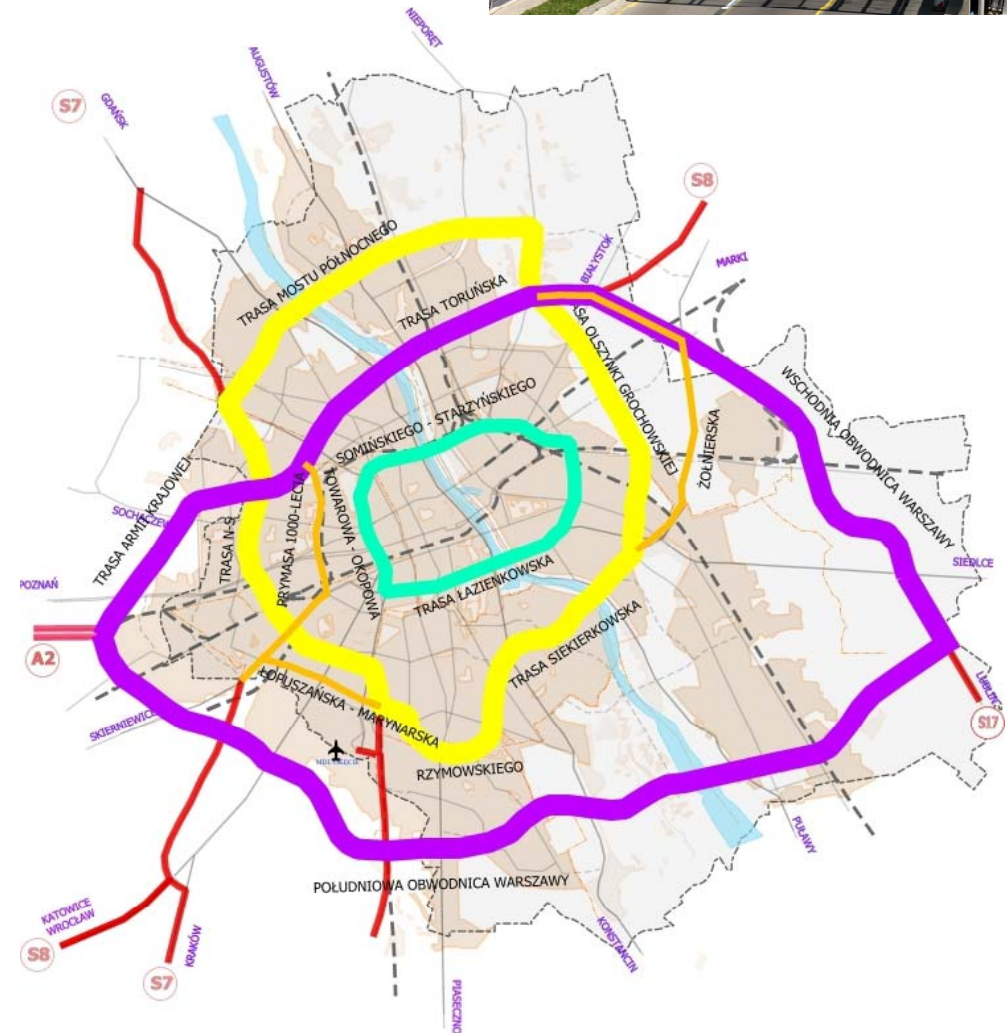
Road System

- Construction of motorway A2 in the trans-European transport corridor II, connecting the urban agglomerations of Warsaw, Łódź and Poznań with the transport system of the European Union
- Reconstruction of the national road number 8 (Via Baltica) in the trans-European transport corridor I connecting Warsaw with the border of Lithuania in Budzisko to the parameters of the express road.
- Reconstruction of the national road number 17 connecting Warsaw and Lublin in the direction of the border of Ukraine to the parameters of the express road.
- Reconstruction of the national road number 7 connecting Gdańsk, Warsaw, Radom, Kielce and Kraków towards the border of the Slovak Republic to the parameters of the express road.
- Reconstruction of the national road number 8 connecting Warsaw with Piotrków Trybunalski and motorway A1 to the parameters of the express road.

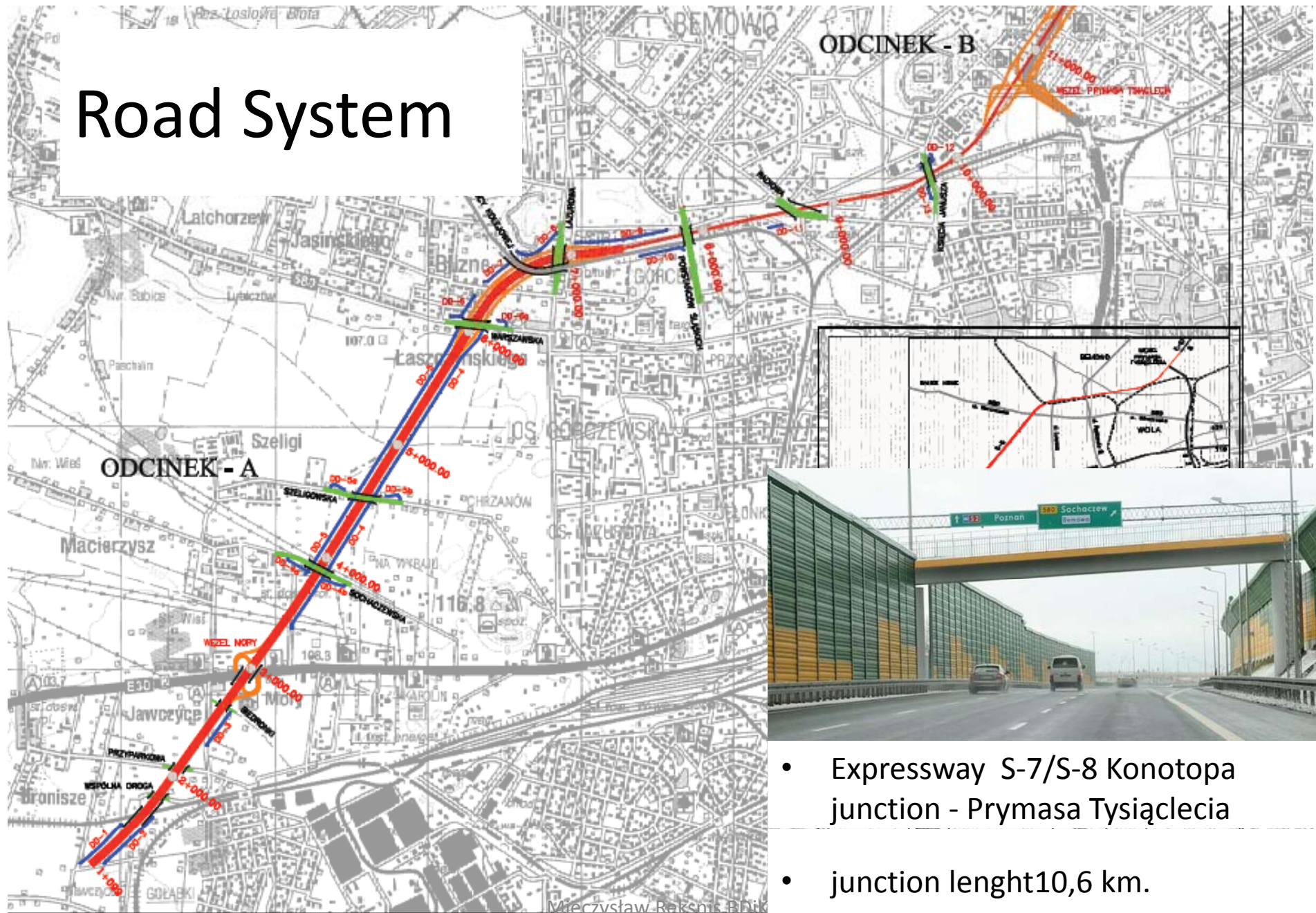


Road System

- The basic task of the central road administration within the area of Warsaw transport junction is construction of the bypass system of the national express roads consisting of the two following routes:
 - **Northern Half-Bypass** from the motorway junction “Konotopa” situated west of the city limits of Warsaw to Prymasa Tysiąclecia Avenue
 - next, along the existing Armii Krajowej Route (modernized for adjustment to the express road parameters) and to Marki along the projected Eastern Bypass to
 - “Zakręt” junction on the intersection of the existing national roads number 2 and 17,
 - **Southern Half-Bypass** from the motorway junction “Konotopa” in the corridor reserved for the Southern Bypass of Warsaw to the junction with the existing road number 17 east of the city limits and next, as A-2 motorway westwards (Southern Bridge Route).



Road System



- Expressway S-7/S-8 Konotopa junction - Prymasa Tysiąclecia
- junction length 10,6 km.

Road System

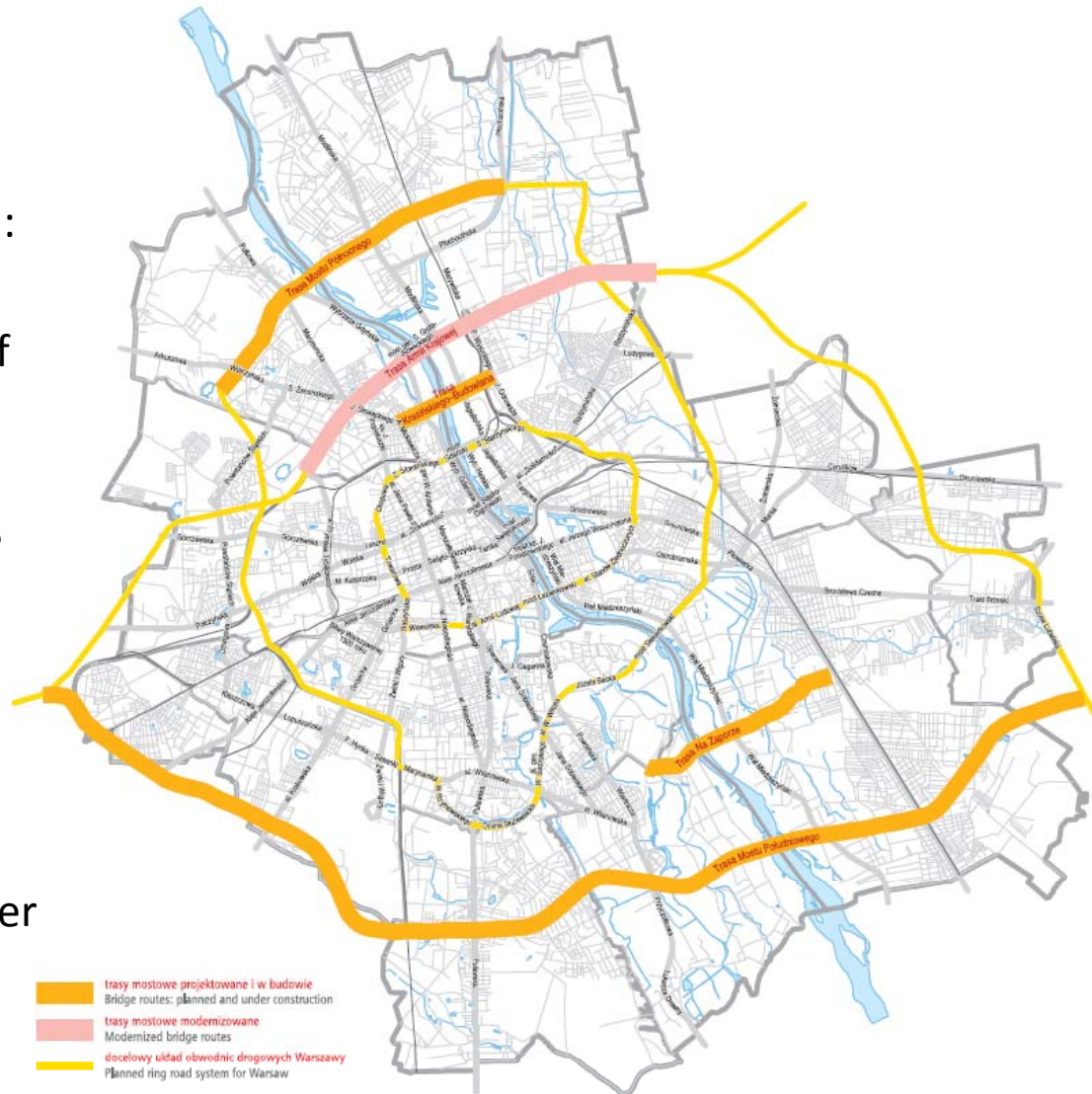


- Southern Half-Bypass from the motorway junction „Konotopa” in the corridor reserved for the Southern Bypass of Warsaw to the „Pulawska”
- NS expressway to the Airport junction

Road System

New bridge routes across the Vistula:

- Northern route – Maria Skłodowska-Curie bridge route of inter-district and interregional character,
- Krasińskiego – Budowlana bridge route of local and inter-district character,
- On the Dam Route of local and inter-district character,
- Southern bridge route of inter-district and interregional character



Maria Skłodowska-Curie bridge route

- City investment
- Beginning of the construction of the Northern Bridge – May 2009,
- Construction works included two sections of Routes:
 - Bridge itself Marie Skłodowska-Curie and
 - Section Pułkowa - Młociny
- The total project cost is 1 150 581 207 PLN, of which EU funding amounted to 374 599 231 PLN.
- Route was completed 25 of March, 2012.



Thank you for your attention!

Mieczysław Reksnis

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MIASTO
STOŁECZNE
WARSZAWA