



# SMART STATIONS IN SMART CITIES

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## SMART RAILWAY SERVICE MANAGEMENT – LODZ AGGLOMERATION RAILWAY CASE

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Session 2bm Innovative Management

UNDER THE HIGH PATRONAGE OF



ORGANISERS

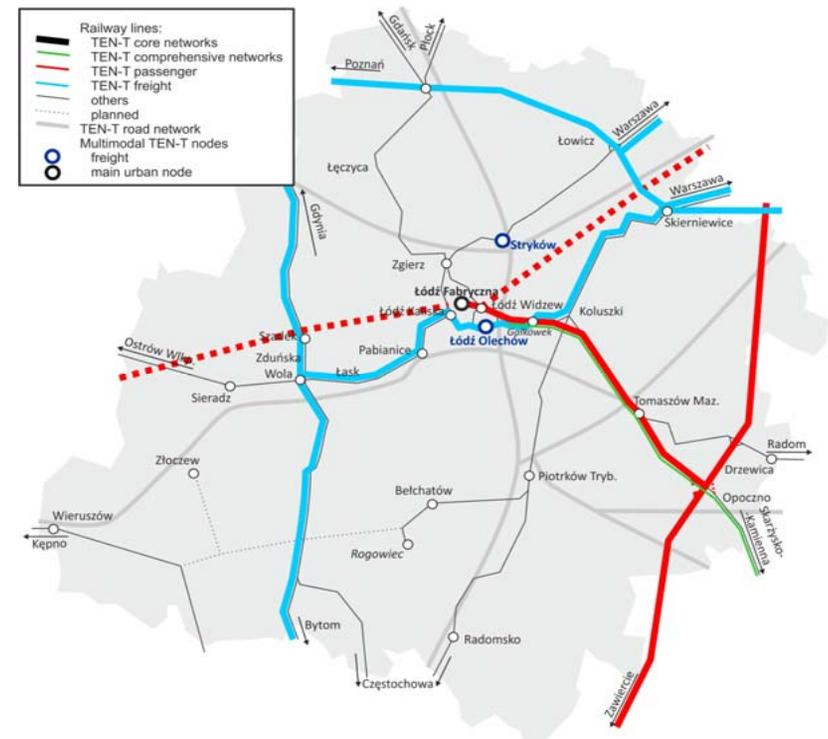


# THE CITY AND THE RAILWAY

Łódź – the city in the centre of Poland, important TEN-T node. Łódź is in the course of the process of the revitalization from the 19th century industrial city towards to the city of new technologies.

Population (millions)

- City Łódź – 0,7m
- Agglomeration – 1,1m
- Region – 2,5m

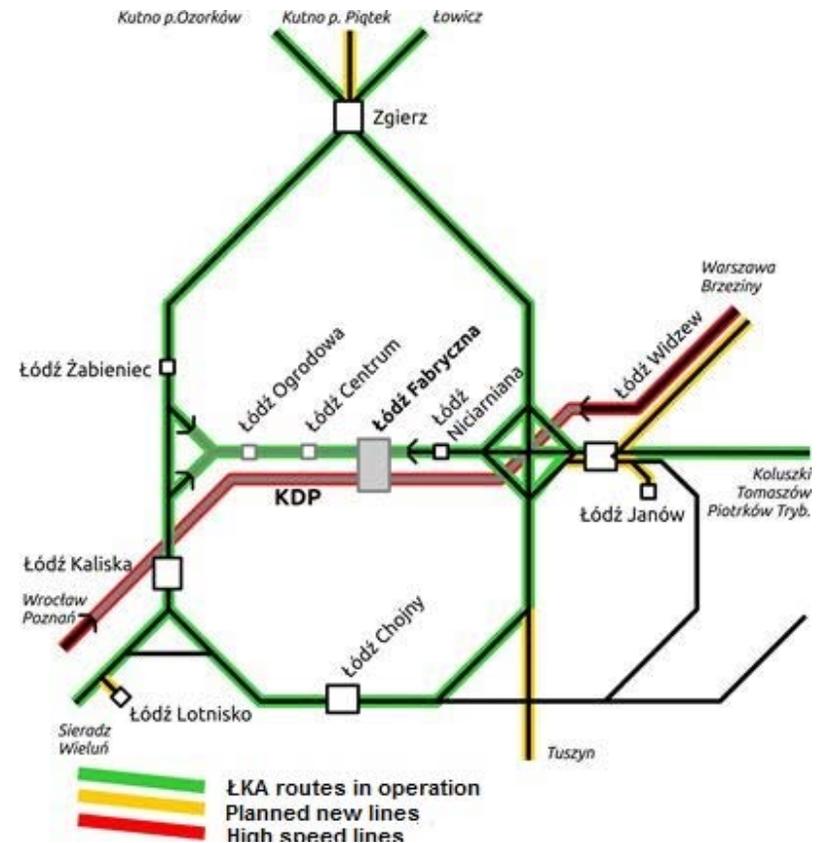


## HISTORY OF THE PROJECT

Within the high speed railway project in Poland also the program of Łódź node restructurisation has been worked out.

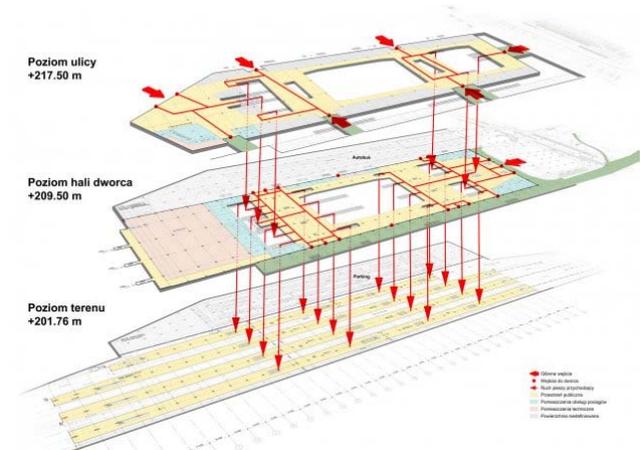
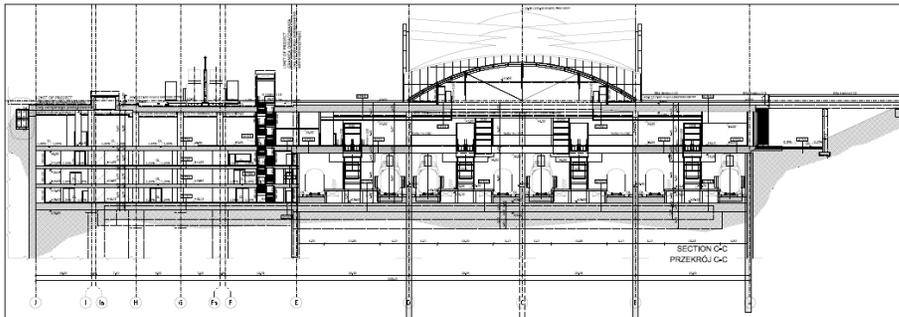
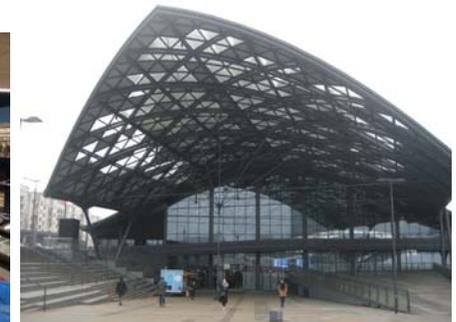
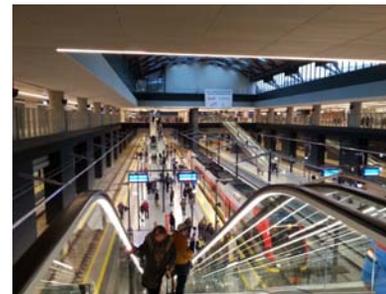
Main elements:

- New underground station in the city center (central multimodal hub)
- New cross city tunnel
- New system of agglomeration railway (LKA)



# NEW STATION ŁÓDŹ FABRYCZNA

- All categories of trains: high speed, intercity, regional, suburban
- Centralised traffic control system for whole railway region
- Easy and simply acces to the city and regional transport stops





# LODZ AGGLOMERATION RAILWAY

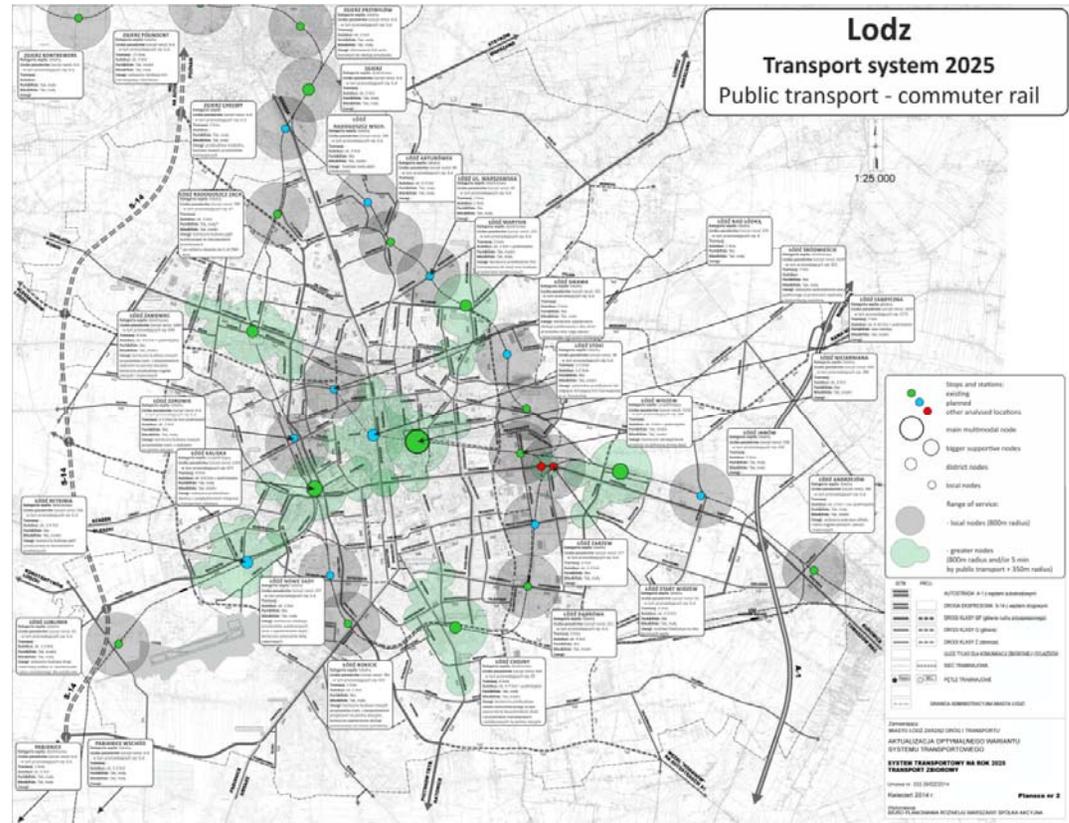
Construction planned on several stages:

- to provide access to the central station to HS trains and IC trains
- to service for the region and agglomeration together with the city transport and P&R

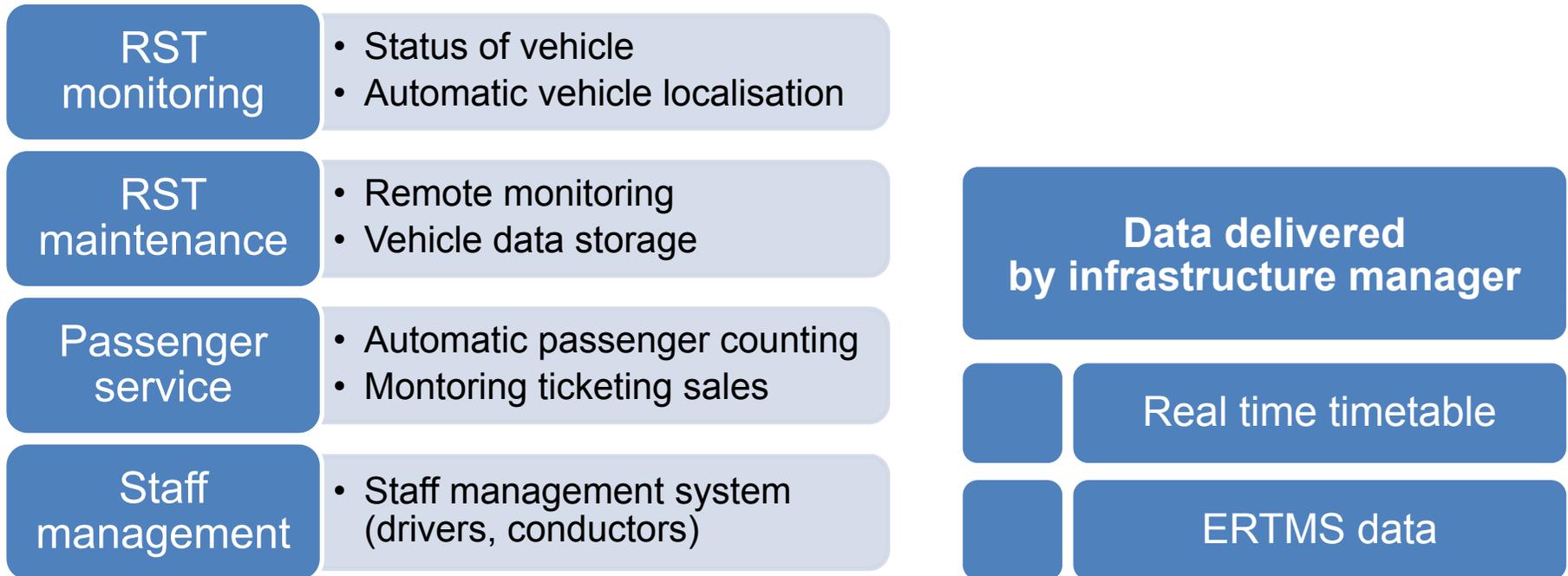


# RAILWAY AND THE CITY

- 34 multimodal train stops
- 0,5 mln citizens living closer than 10 minutes from the nearest stop
- High level accessibility to trains in the most urbanised areas



# INTEGRATED MANAGEMENT SYSTEM IN ŁKA RAIL



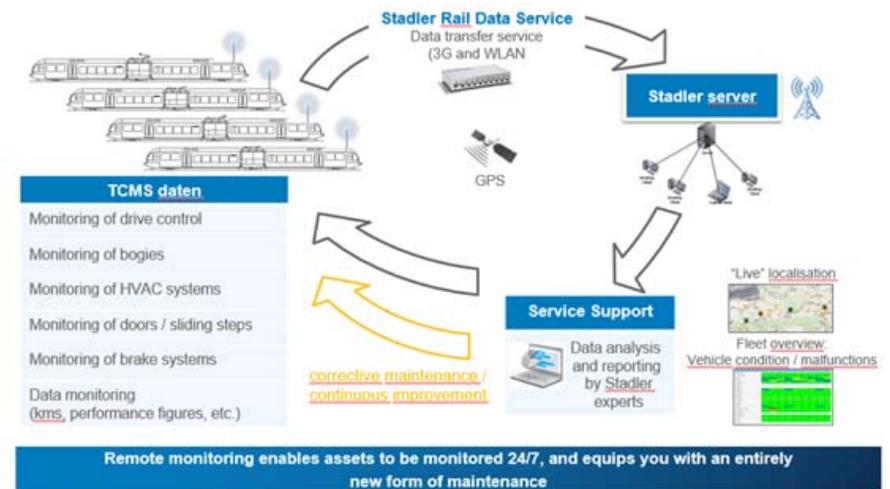
# MAINTENANCE SYSTEM OF ROLLING STOCK

- 20 units FLIRT 3 Stadler fully comply with TSI
- Maintenance within 15 years contract with the producer
- Dedicated modern maintenance facilities



## RAIL DATA SERVICE

RDS/TWC: The condition of the fleet at a glance and at all times



Stadler Service | © Stadler | 01.06.2017

## WBA – ONE TICKET FOR THE WHOLE JOURNEY

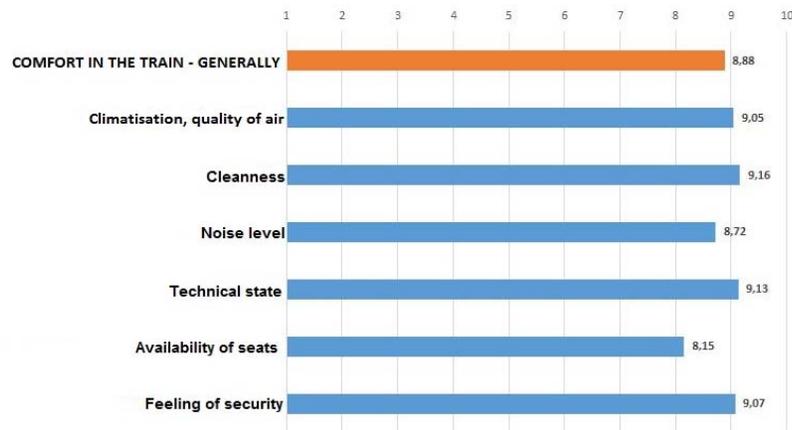
WBA – (single ticket) is a special offer of an integrated ticket fare for people travelling by train and using public transport in both in the agglomeration and in cities of region



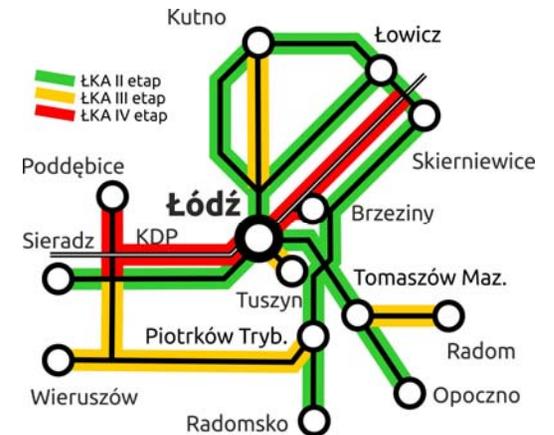
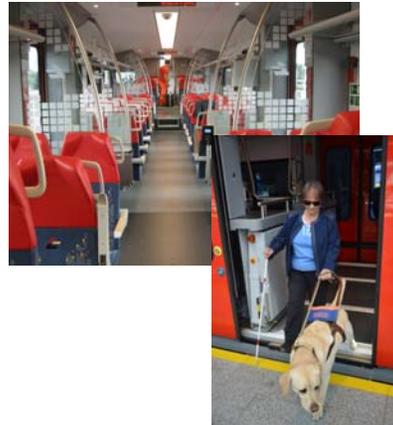
# RESULTS FROM PASSENGER POINT OF VIEW

All innovative solution is highly accepted by passengers. Number of travellers is growing from year to year of more than 10%.

## Next stages of system development



**Passengers satisfaction (0 – 10 scale)**





THANK YOU  
GRACIAS

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