



Traffic Management Systems on national roads network

Main assumptions and status of implementation in Poland

Warsaw, September 2023

Program of the National Traffic Management System (NTMS)

The aim of the completion of the National Traffic Management System Program is the uniform implementation of ITS on roads managed by GDDKiA, in particular on high speed roads



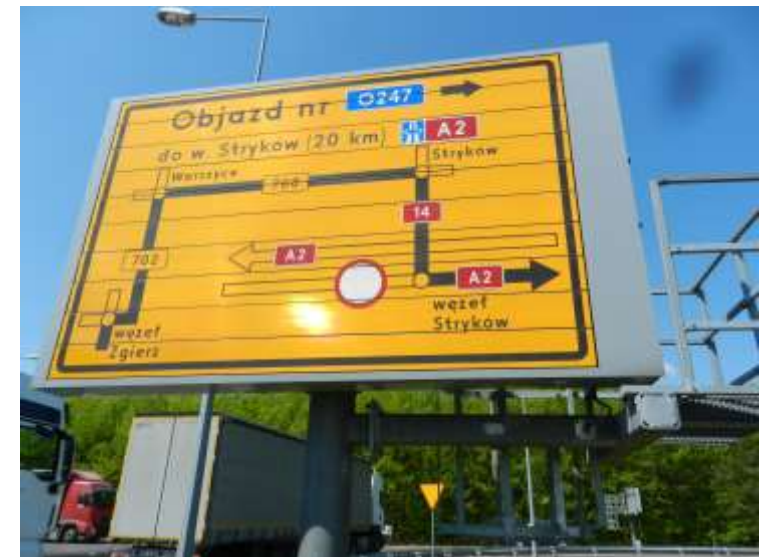
The method of implementing the NTMS Program

**Technical
Standardisation**

**Implementation
formula
(NRTMS*, NRCP**)**

*National Road Traffic Management System)

**National Road Construction Program



Technical Standardisation

Instructions for the deployment of ITS devices

Detailed Technical Specifications for 36 types of ITS devices



Variable message signs, traffic counting stations, automatic incident detection, road video surveillance, meteo sensors

Design standards for traffic organisations variable scenarios



Standardized control and traffic management logic

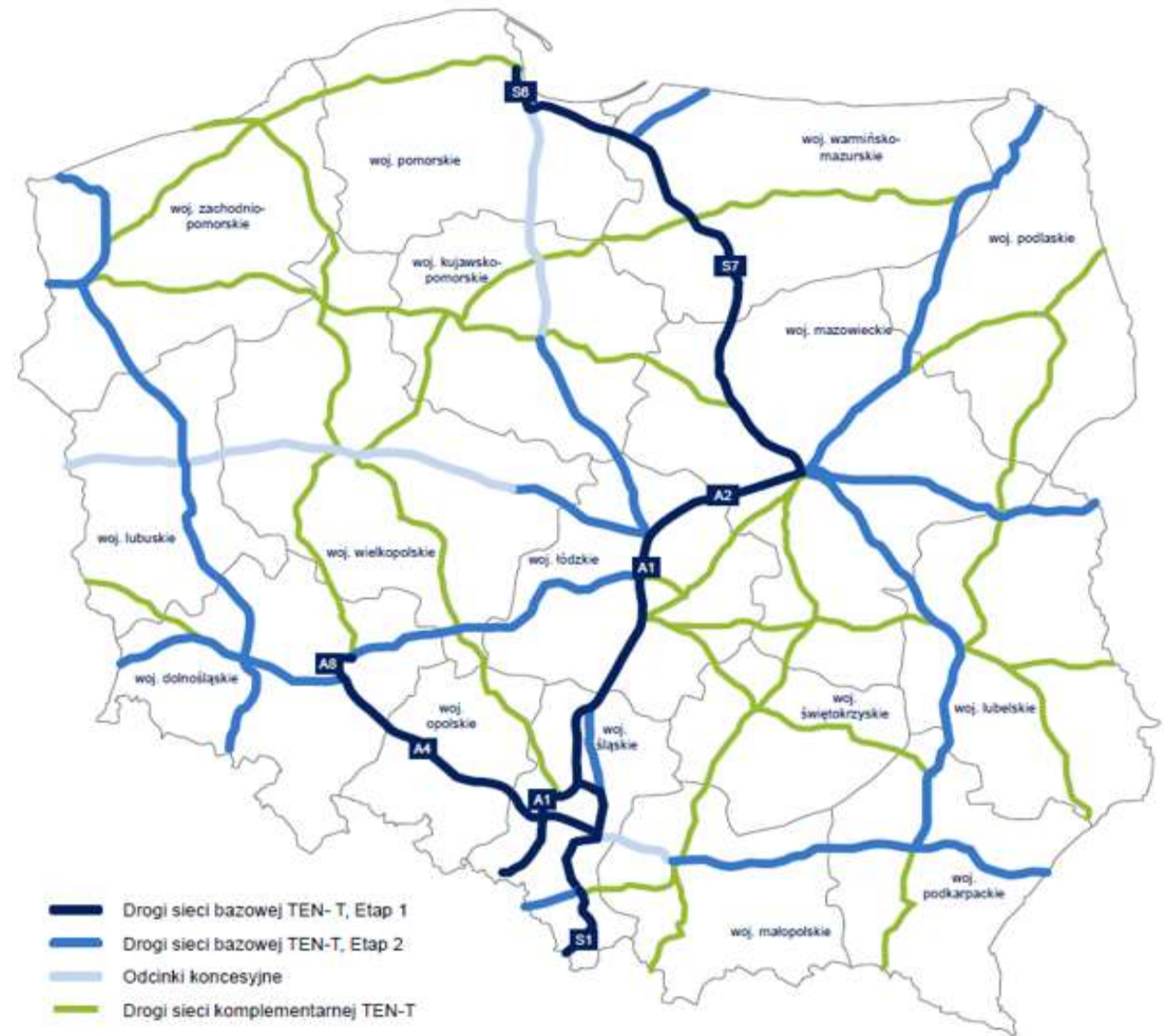


Implementation formula

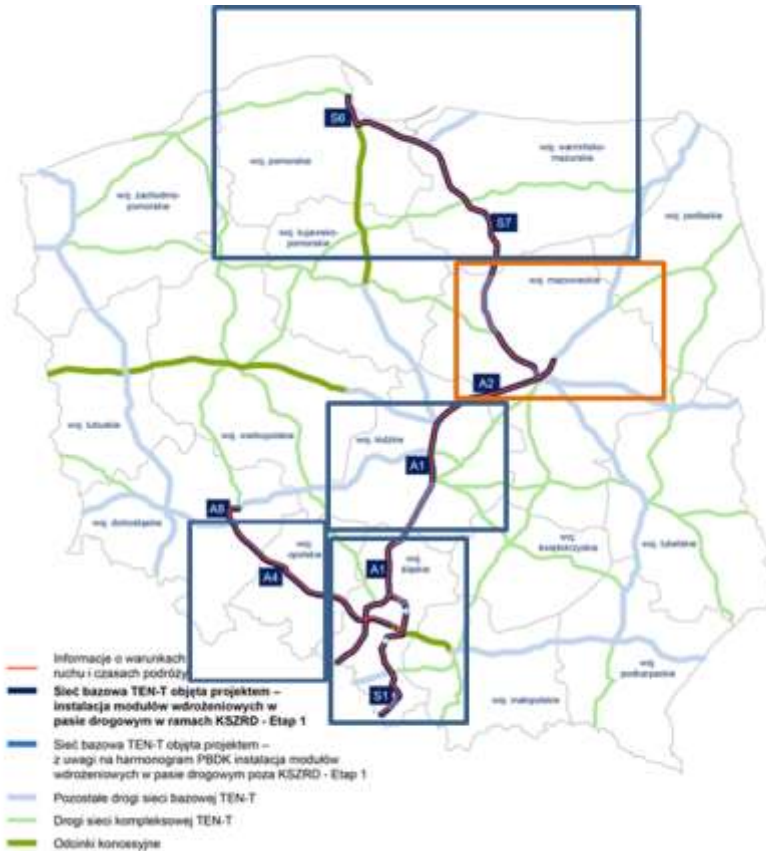
Project of the National Road Traffic Management System on the TEN-T Network (NRTMS)

- Stage 1 (under construction)

- Stage 2 (under consideration)



Key data on NRTMS



Project value:

- 880 908 767,00 PLN
- **approx. 189 000 000 EUR**

Implementation areas:

- Gdańsk/Olsztyn
- Warszawa
- Łódź
- Katowice
- Wrocław/Opole

Range:

- **1 100 km** of high speed roads
- **3 500 pieces** of ITS modules



Co-funded by
the European Union



Generalna Dyrekcja
Dróg Krajowych i Autostrad

Aim of NRTMS

For NRTMS USER

- Improvement of traffic safety and travel comfort;
- Decrease of road accidents;
- Increasing the actual use of road capacity;
- Increase of the availability and quality of services on the road network;
- expanding the scope of information for drivers,
- making optimal decisions from the point of view of time or travel destination.



For NRTMS OPERATOR

- Improvement the quality of road traffic management;
- Coverage of part of the road network with a coherent traffic management system;
- Facilitation of GDDKiA tasks thanks to new IT tools
- 24/7 monitoring of traffic conditions;
- Faster recognition of the road situation and the ability to react more effectively to road services



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National Traffic Management Centre (KCZR)

Basic tasks of KCZR:

- Managing critical incidents for road network
- Operation of National Road Hotline
- Deciding to run a Child Alert
- Formulating messages of national importance
- Emergency takeover of Regional TMC tasks

Operational room of KCZR



Room of National Road Hotline



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The elements of KSZRD in the field

Information on road impediments



Lane Control System



High accuracy travel time measurement



Acquisition and transfer of information using I2V/V2I



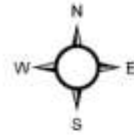
Image acquisition at junctions and other road locations by CCTV



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Implementation formula

Systemy Zarządzania Ruchem na drogach GDDKiA - stan realizacji

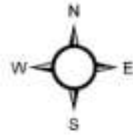


National Road Construction Program (NRCP)



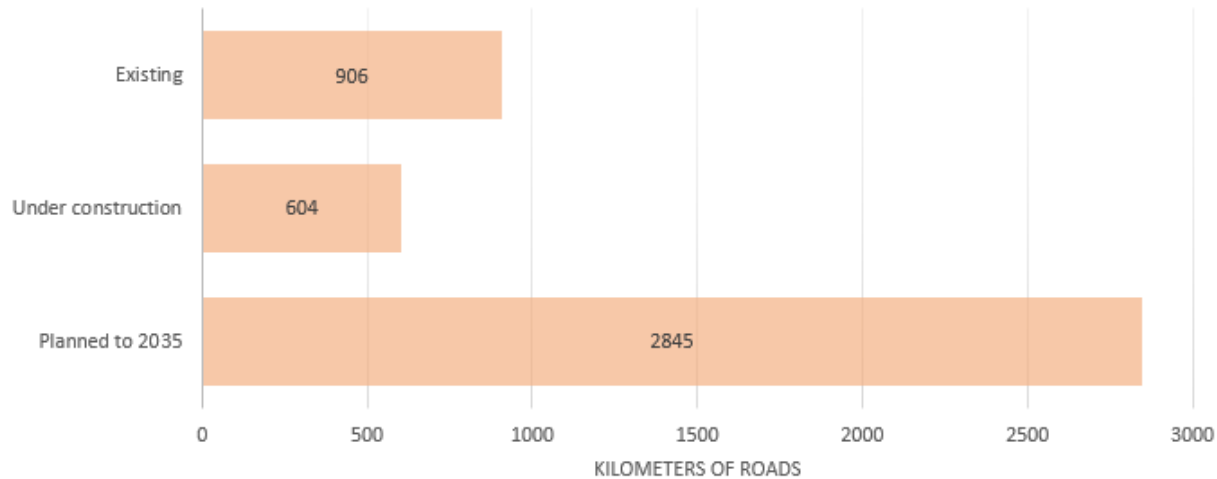
Implementation formula

Systemy Zarządzania Ruchem na drogach GDDKiA - stan realizacji



National Road Construction Program (NRCP)

NRCP WITH ITS NUMBERS



Summary

NTMS Program - uniform and coherent ITS solution for Polish national roads network



Thank You For Your Attention

