

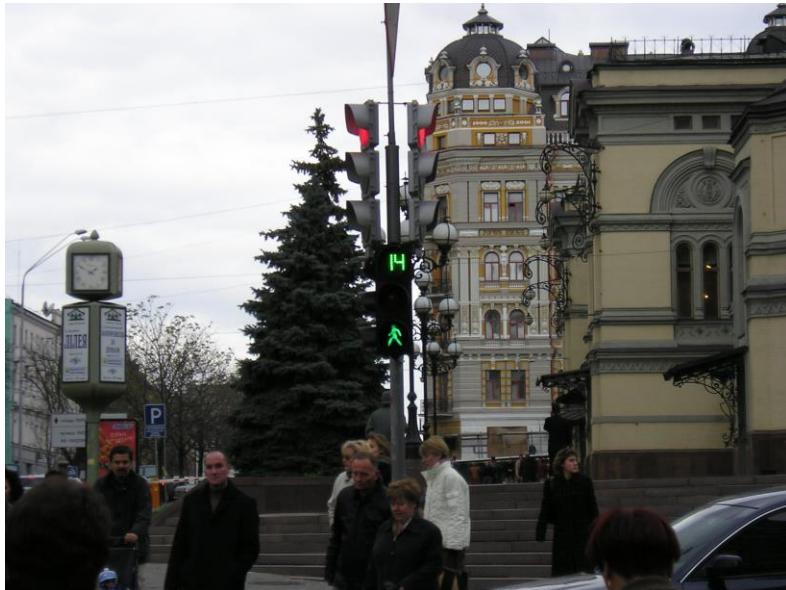


ROSTOK-ELEKOM

AVT/GROUP

Automated Traffic Management System (ATMS)

- *The Rostok-ELEKOM was founded in 1992*
- *The first road controller was installed in 1995. The Kyiv Traffic Management Center has been operating since 1997*
- *In 2023 the company became part of the AVT Group*



- *Today, equipment produced by Rostok-ELEKOM operates in more than 60 cities of Ukraine and abroad.*
- *ATMS "Rostok-ELEKOM" operates in 7 cities of Ukraine, Riga, Chisinau and Tbilisi.*
- *In total, the company produced more than 4,000 controllers and 20,000 traffic lights*
- *The volume of product exports is 25% - 35%*





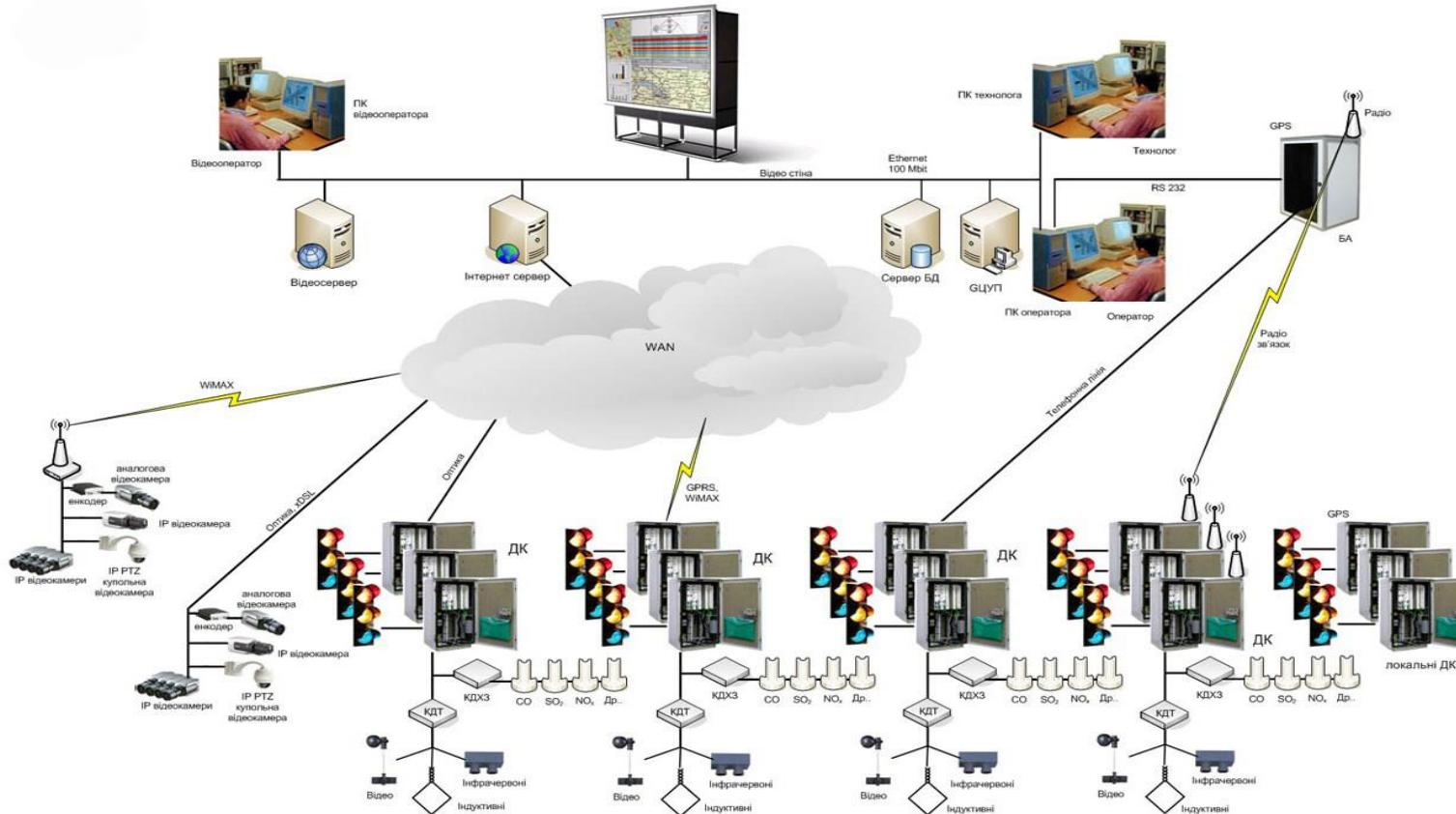
- *The Rostok-ELEKOM is a laureate of the All-Ukrainian competition “100 BEST PRODUCTS OF UKRAINE”*
- *The products of the Automated Traffic Management System enterprise have the highest level of quality established by the KYIV QUALITY and CAPITAL QUALITY STANDARD programs.*



- *Rostok-ELEKOM annually certifies its products “Automated traffic management system” under the certification program “CERTEX”*
- *The components of the Automated Traffic Management System have a European quality certificate and are sold in EU countries*
- *The company has a certificate for the quality management system ISO 9001:2015*



Structure of the automated traffic management system



Main components of ATMS based on ITS (Intelligent Transport Systems) principles

- *Creation of a working project of an ATMS ITS*
- *Traffic flow monitoring*
- *Software for creating a mathematical model of the city*
- *Video server and video surveillance software*
- *Video cameras*
- *Equipping automated traffic management systems and creating operator workstations*
- *Traffic controllers*
- *Traffic lights*
- *Vehicle detectors*
- *Analytical processing of monitoring data and implementation of “green street” and “green wave” modes*
- *Adaptive control (both local and main)*

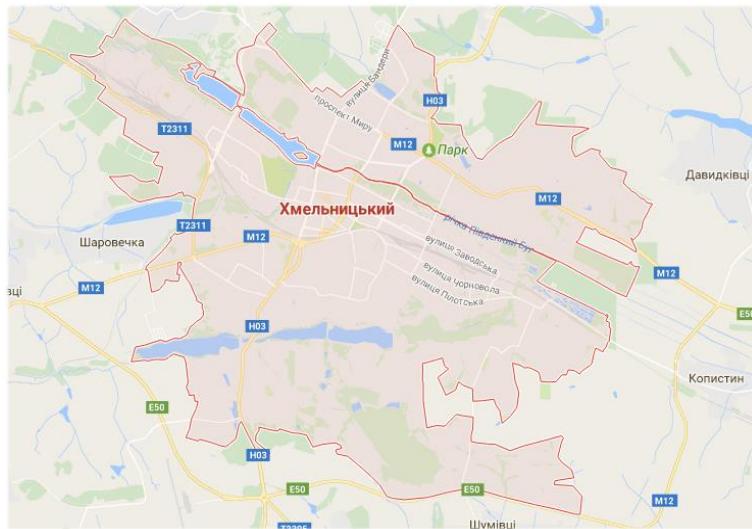
Additional components of the ATMS

- *Weather stations*
- *Variable message signs*
- *Information boards*
- *Priority movement of public transport (board + controller)*
- *Information parking system*
- *WIM systems*
- *Automatic speed control*
- *Automatic control of movement at a red traffic light*
- *Entry/exit control at city borders (vehicle classification, license plate number)*

STAGE OF CREATION THE ATMS

- Stage 1: Creating a working project of the ATMS
- Stage 2: Monitoring traffic flows
- Stage 3: Software for creating a mathematical computer model of the city

The project for the modernization and development of the traffic management system. Source data for improving the road network, modeling and prompt response to changes in the transport situation.



Stage 4: Video server and video surveillance software

Stage 5: Video cameras

Expected result:

Image transmission from main intersections.

The ability to analyze the situation at main intersections with archiving for later viewing.



Stage 6: Equipping the ATMS and creating operator workstations

Introduction of transport detectors, adaptive control methods, modern information technologies and communication channels (GPRS, 3G, 4G, fiber optic)



Stage 7: Traffic controllers

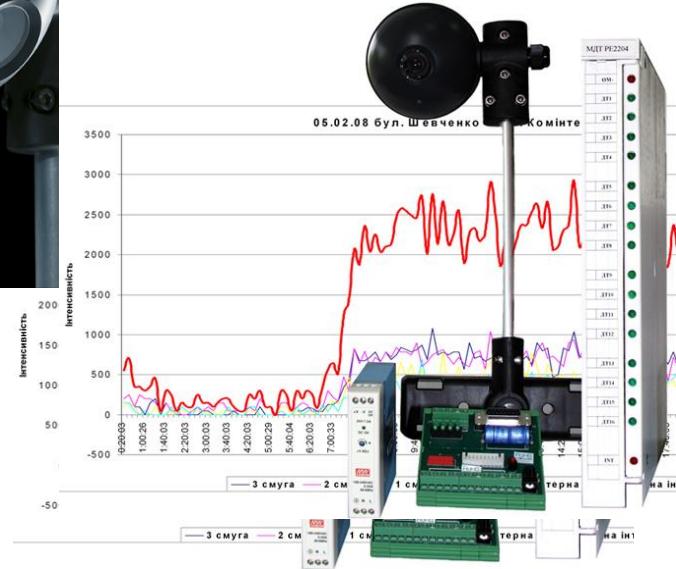
Stage 8: Traffic lights

*Including local controllers in the system.
Installation of LED traffic lights (90% energy savings).*



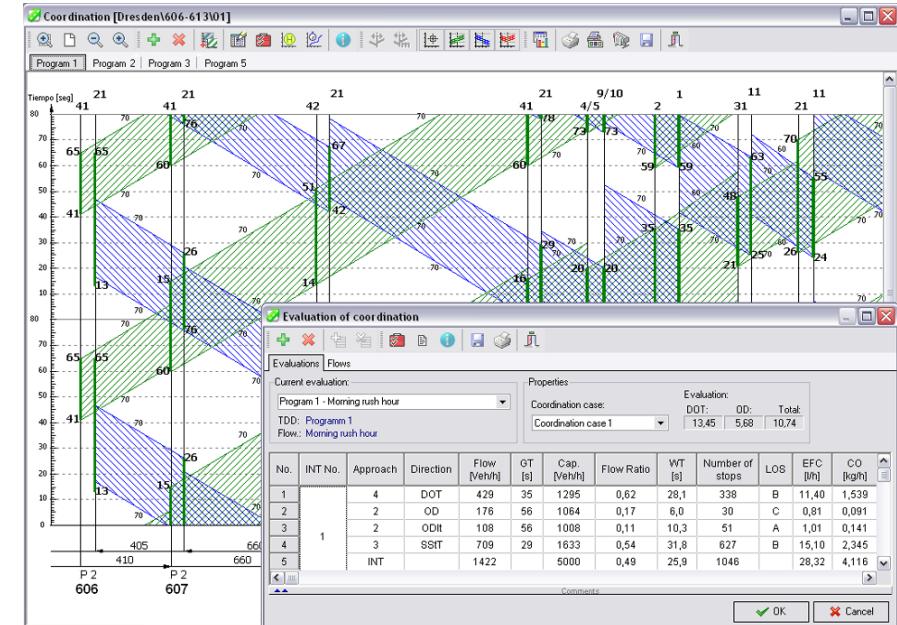
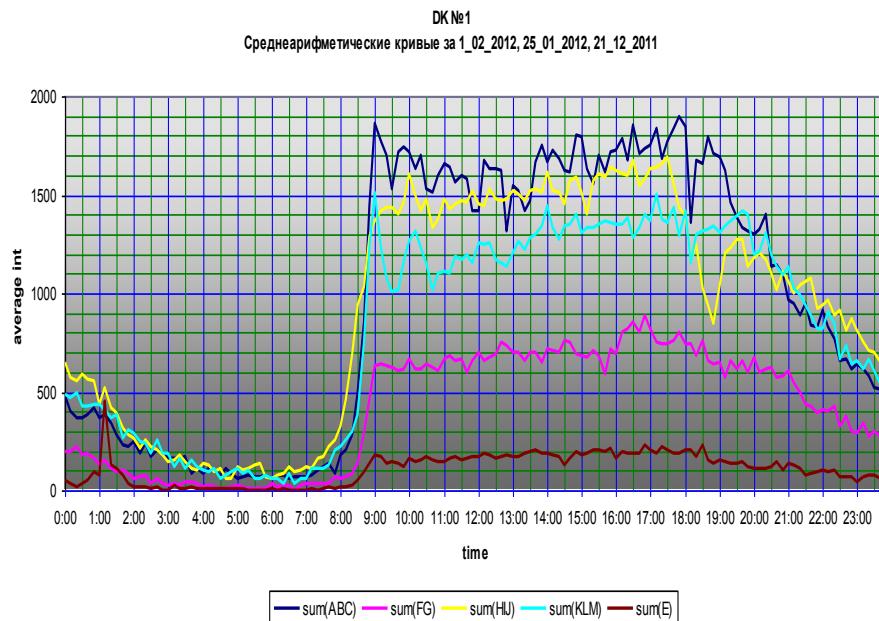
Stage 9: Vehicle Detectors

Receiving reliable primary information for the transport management system.



Stage 10: Analytical processing of monitoring data and implementation of the “green street” and “green wave” modes

Based on reliable information, improve the quality of the results of design work and system maintenance



Stage 11: Weather Stations

Informing traffic participants about places with difficult weather conditions and, as a result, reducing accidents.



Stage 12: Variable message signs

Stage 13: Information boards

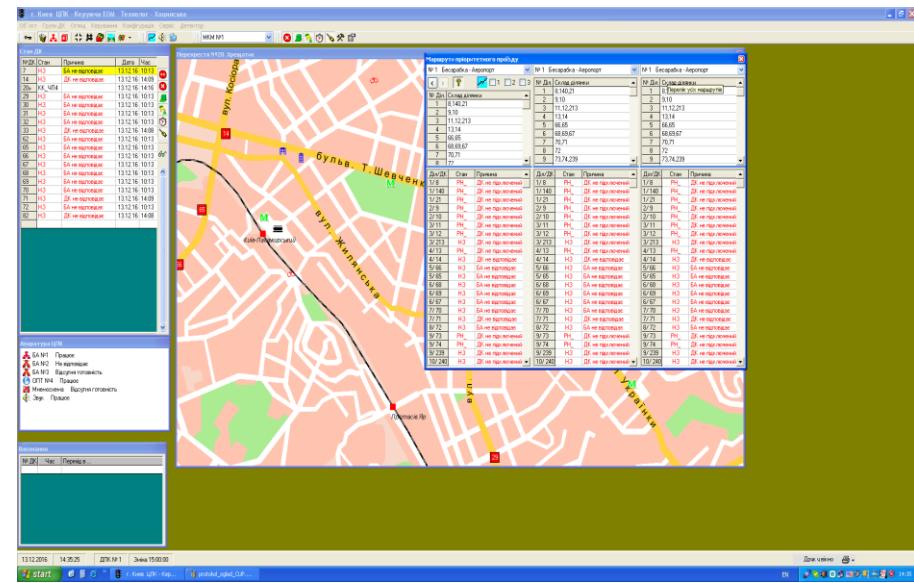
Operational control of the speed or direction of traffic flows.

Informing traffic participants about the transport situation and recommended directions of movement.



Stage 14: Priority for public transport (board – traffic controller)

Reducing delays of route transport at intersections and, as a result, improving traffic regularity, reducing the number of vehicles, saving fuel.



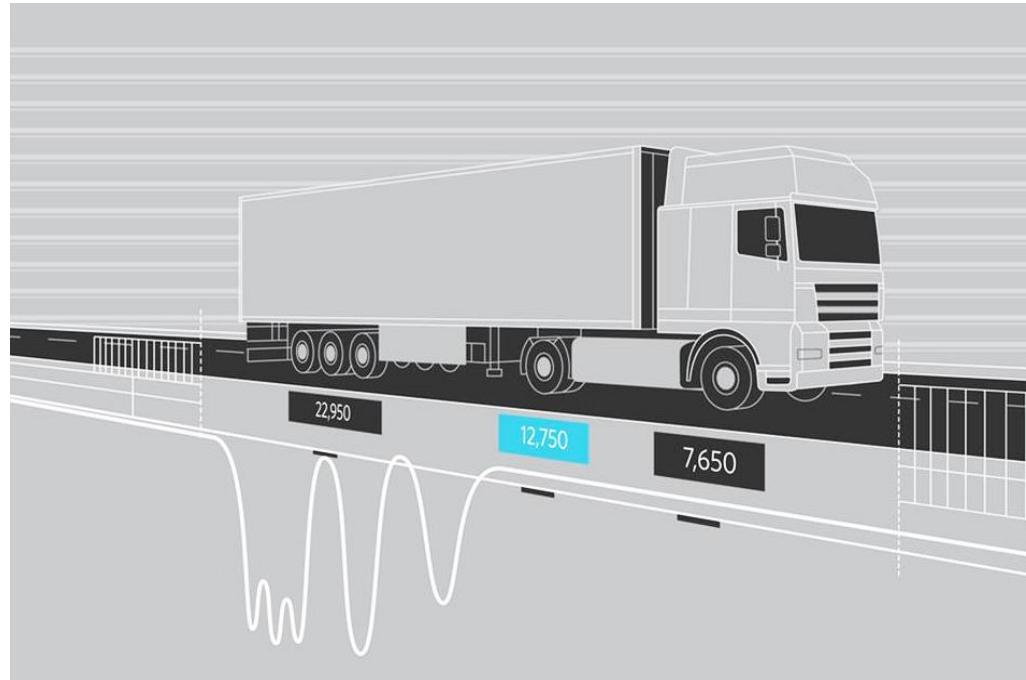
Stage 15: Information parking system

Reducing the number of cars looking for a parking space and, as a result, improving the transport situation



Stage 16: WIM systems - weighing trucks while driving

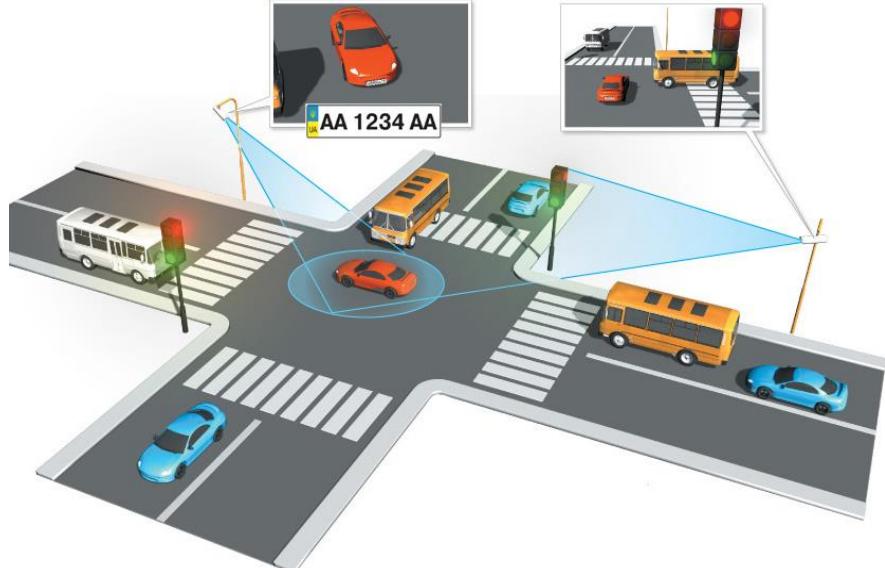
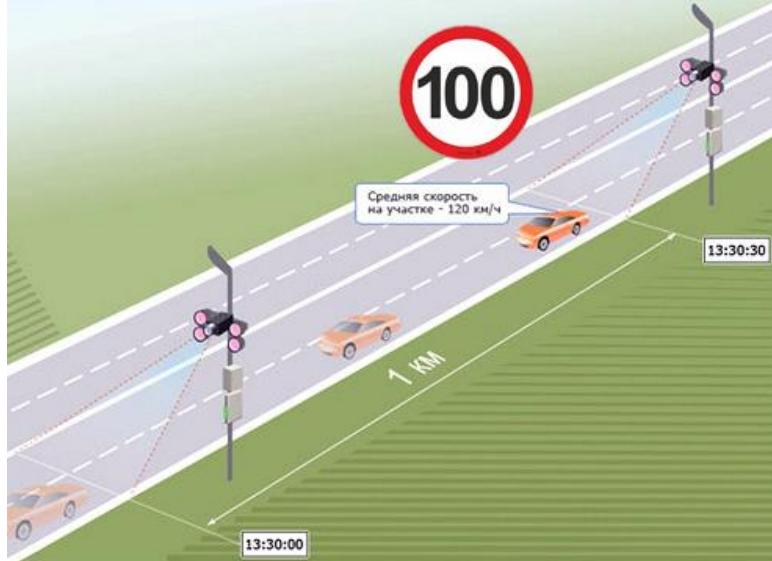
Increased road safety, preservation of the road surface.



Stage 17: *Automatic speed control*

Stage 18: *Automatic control of driving on red traffic lights*

Increased road safety



Stage 19: *Entry/exit control at city borders (vehicle classification, license plate).*

Increased road safety



Automated traffic control systems produced by Rostok-ELEKOM
KYIV



Tbilisi

Results of implementation of the Automated Traffic Management System (ATMS)

- *Increase in average speed by 15%*
- *Reduce accident rates by 20%*
- *Reduce transport delays by 18%*
- *Reduce harmful emissions into the air by 13%*
- *Reduce fuel consumption by 15%*



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