

# INTELLIGENT TRANSPORTATION SYSTEMS

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# What we do

## Traffic modeling

Our experts successfully solve problems of 3-D simulation of traffic situation for separate parts of road network. The modeling helps to appraise properly and make right conclusions for new roads projecting.

## Transport engineering

Advanced projecting technologies and vast experience enable us to solve hardest traffic tasks. Our in-house project department and own material and technical resources are the guarantee of the highest world standards.

## ITS implementation

For modernization and construction of new Russian infrastructure Techno group of companies is implementing automated control road traffic systems and toll systems.

## Maintenance

The company is monitoring and maintaining implemented systems and regularly upgrades it.

## We create a key ready transport management systems

Drawing on extensive know-how in system engineering and integration, Techno develops flexible, turnkey traffic management solutions and supports customers at every stage from concept design to system deployment. The main components of such turnkey systems are:

- Static and electronic signage
- Dynamic information panels
- Road controllers
- Weather management and information systems
- Ramp metering
- Control rooms and data centers
- Core networking and communications
- Emergency notification
- Emergency vehicle management
- Video surveillance systems
- Incident detection and verification

# Project references



## Automated road traffic control system for the third traffic ring in Moscow

In July 2009 the automated traffic management system of third traffic ring in Moscow was launched. We developed this project starting from the beginning of 2006 in cooperation with Siemens corporation.

State-of-the-art technical solutions and latest equipment of Siemens, Argovision and Traficon were applied in this system.

## St. Petersburg Ring Road

Techno group of companies took part in construction of automated traffic management system for the ring road. During the project implementation special attention was paid to the information system for road users: dynamic information panels and variable message signs.

## Urban Intelligent Transportation System

We put into a practice automated traffic management systems for several arterial roads in St.Petersburg including Nevsky prospect, Moskovsky prospect, etc.

As a part of city projects Techno Group of companies solved following problems:

- Traffic light control and coordination
- Flexible reactions on changing amounts of traffic and a comprehensive view on the traffic situation over the whole network from the control center
- Fully serviceable local control and public transport prioritization
- Dynamic green waves without high planning efforts
- Visualisation of the management process to the control center room
- Traffic incident causes analysis, traffic situation analysis
- Optimal speed evaluation for specified transport areas



## Electronic Toll Collection Systems

While developing and implementing toll collection system a great attention is paid to comfortable location of toll plazas, intelligible system of traffic signs, road boards and road marking to organise car navigation and inform drivers in advance. Focusing on these help us to develop safe toll stations and make toll collection using up-to-date technologies and own technical solutions.

In construction we take advantage of state-of-the-art developments and equipment of the first-rate European suppliers.

For the moment we have accumulated all necessary knowledge, skills and experience to bring toll highway stations on the European level.

## Video Enforcement System (KASKAD™)

Techno group of companies together with the State Inspection for Road Traffic Safety of the Ministry of Internal Affairs (GIBDD) of Moscow Government developed the KASKAD™ – video enforcement system. The newest domestic development, technical decisions and software was assumed as a basis.

KASKAD™ feature highlights:

- Automatic video enforcement for road authorities
- Automatic control of disobeying vehicles
- Photo / video recording and management
- Automatic number plate recognition and vehicle identification using existing databases
- Processing of administrative infraction reports
- Provide online information and access to databases for traffic police
- Integration with regional electronic payment systems

At the moment the system is implemented in Moscow and Moscow Region. For 7 months it's functioning over 18.000 violations were revealed.



## Why Techno

- 15 years of successful work in system integration
- Unique experience in transport management systems in Russia
- Long-term partnership with the leading Russia and foreign suppliers
- Cooperation with government officials
- **All necessary licenses to work in the field of traffic management**
- Stable financial status

Techno group of companies was established in 1995. From the beginning of its activity the group holds a position of information technology market leader.

Construction of up-to-date roads equipped with modern intelligent transport systems is one of priority targets for the Russian Federation. Implementation of such advanced complicated projects demands for broad experience and background, qualified and certified specialists, cooperation with first-rate European developers and suppliers.

## Our Partners

TELEGRA

SIEMENS AG

SKIDATA AG

AFAPARK

GEVAS SOFTWARE

GEA

ARGOVISION

TRAFICON



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