

INTELLIGENT TRANSPORTATION SYSTEMS

Working in Partnership

The **Ministry of Transport, Communications and Works** is responsible for the creation and implementation of government policy in the sectors of transport, communications, public works and antiquities.

Vision: To establish Cyprus as a regional centre providing modern and efficient infrastructures and services.

Mission: The design and implementation of policies for the continuous improvement of transport (air, maritime and land) and of communications, as well as the continuous upgrading of the quality of projects implemented by the Ministry.

CHALLENGES

- Mitigate traffic congestion in urban and inter-urban areas
- Understand the effect and plan for the emergence of connected and autonomous vehicles (CAVs)
- Monitor and manage the movement of dangerous goods
- Unify legacy information platforms
- Ensure seamless collaboration among transport stakeholders
- Uptake sustainable mobility initiatives

RESEARCH

- Investigate novel control strategies to reduce traffic congestion in the presence of CAVs
- Develop intelligent techniques for model calibration using heterogeneous sources
- Estimate and predict traffic conditions using uncertain data
- Devise real-time and effective traffic signal control strategies

INNOVATION

- Traffic models for major urban and motorway transport networks in Cyprus
- A decision support system for sustainable mobility
- A holistic open-source topological GIS system for the integration of information from various organizations in Cyprus
- A gamification service for promoting sustainable mobility
- A software platform for the handling of dangerous goods

IMPACT

- Reduced traffic congestion
- Reduce CO₂ emissions
- Improved management and planning of transport networks
- Reliable assessment of traffic conditions
- Safer handling of hazardous goods



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