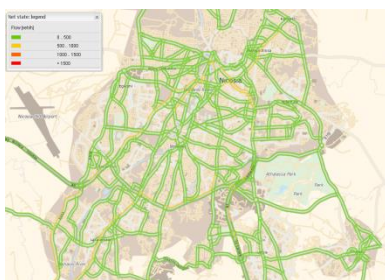
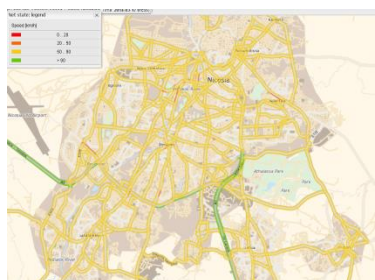
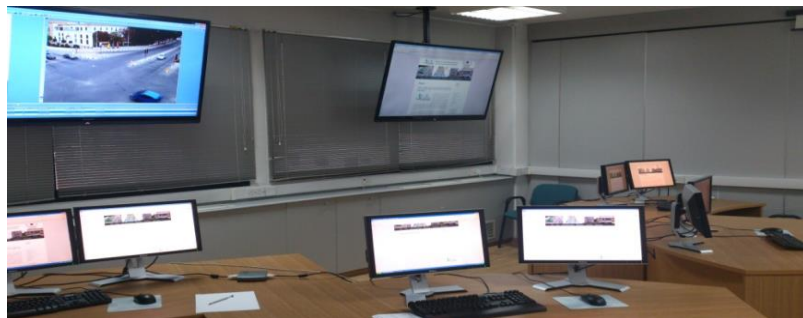
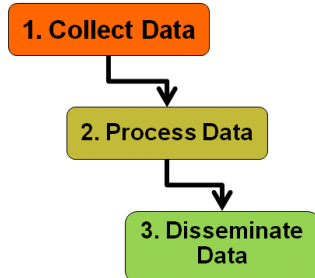


ΔΕΣΜΟΙ ΑΝΑΠΤΥΞΗΣ

The Latest Developments in Promoting Intelligent Transport Systems (ITS) in Cyprus

*Aristotelis Savva, Executive Engineer
Public Works Department*

INTELLIGENT TRANSPORT SYSTEMS (ITS) IN CYPRUS



- Since the first feasibility study for the Introduction of ITS in Cyprus in 2008 – which was co-funded by the EU TEN-T by 80%, a number of actions have been taken to introduce integrated telematic systems with the objective to:
 - Collect, analyze and provide information to network users regarding the current conditions
 - Improve co-operation between the responsible agencies
 - Meet our obligations under the EU Directive 2010/40 which was transposed to Cyprus Legislation in November 2012.
- Commission Delegated Regulation (EU) No 886/2013 of 15 May 2013 supplementing Directive 2010/40/EU of the European Parliament and of the Council with regard to data and procedures for the provision, where possible, of road safety-related minimum universal traffic information free of charge to users
- Commission Delegated Regulation (EU) 2015/962 of December 2014 supplementing Directive 2010/40/EU of the European Parliament and of the Council with regard to provision of EU-wide real-time traffic information services
- Commission Delegated Regulation (EU) 2017/1926 of 31 May 2017 supplementing Directive 2010/40/EU of the European Parliament and of the Council with regard to the provision of EU-wide multimodal travel information services
- EU EIP and TISA published the harmonised Declaration of Compliance for Safety-Related Traffic Information
- EU EIP and TISA published the harmonised Declarations of Compliance for Real-Time Traffic Information

https://www.cestrin.ro/web2014/nap_eueip/

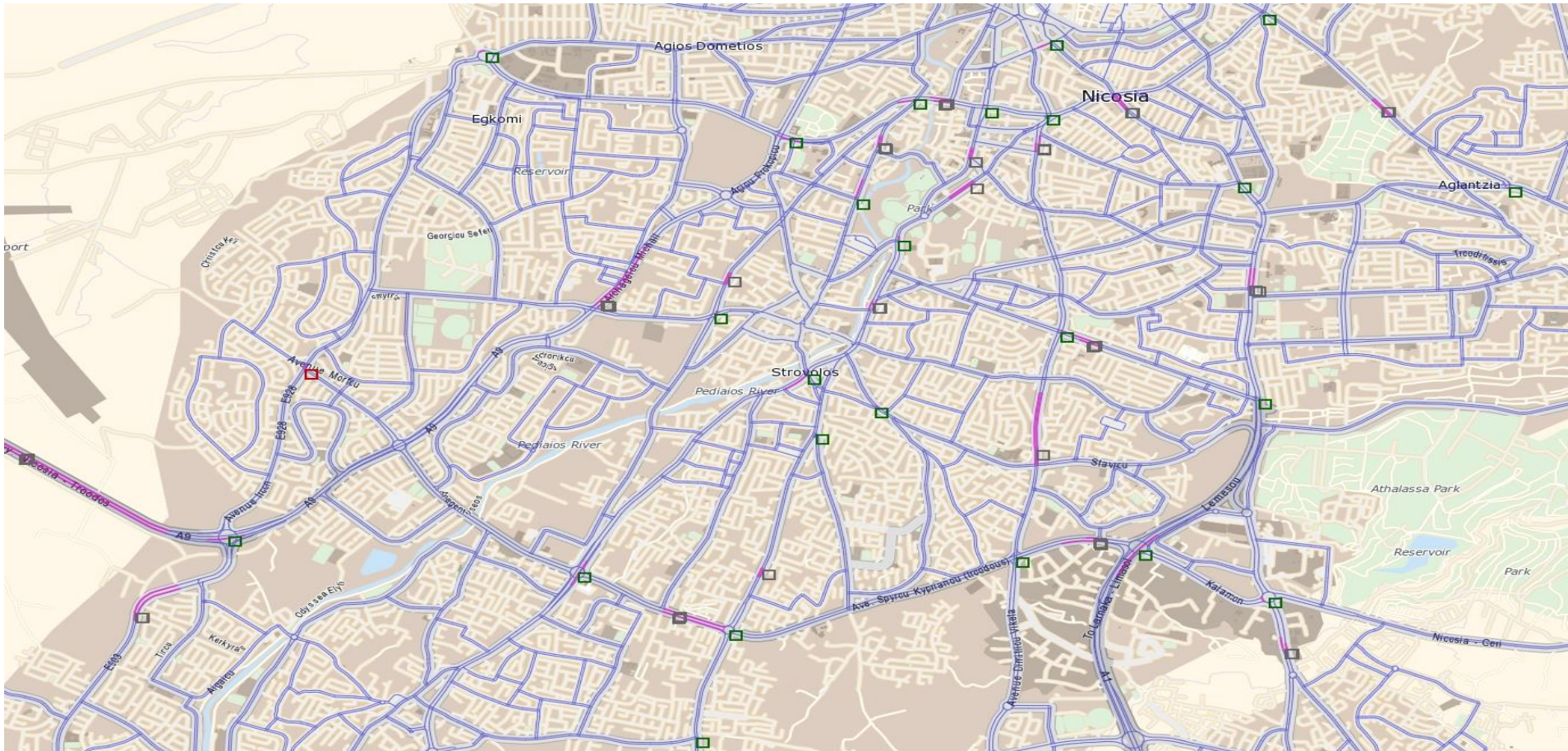
ITS Developed in the Last 5 Years (1)



ITS Systems that can be used for Traffic Monitoring & Management:

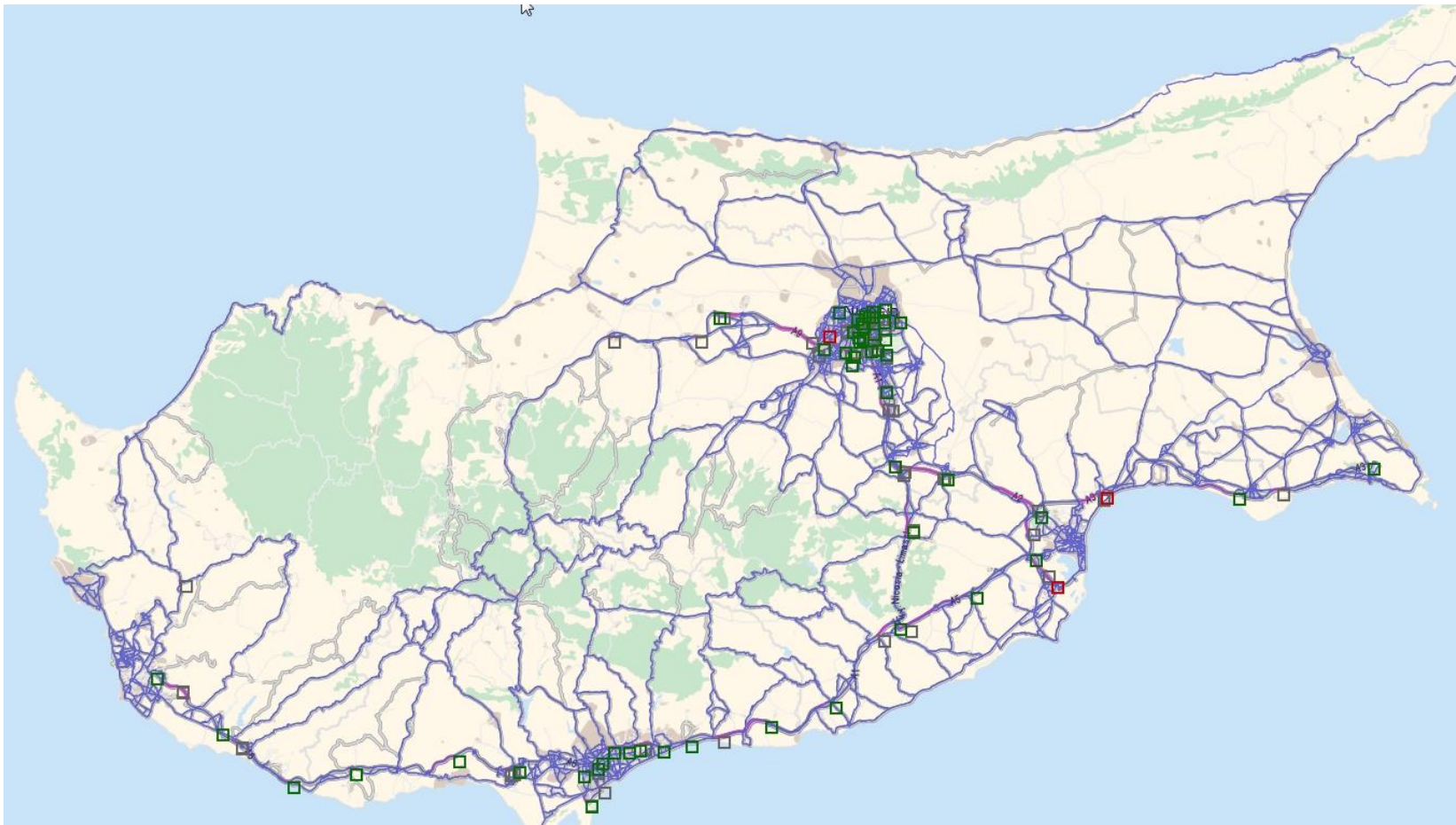
- ▶ The project DIAVLOS was created in 2014 and uses the traffic monitoring & management platform OMNIA –MISTIC.
- ▶ Was co-funded by the EU Cross-boarder Co-operation Programme Greece –Cyprus 2007-2013 by 80%.
- ▶ The system collects and analyses traffic information from 120 devices installed in the primary roads of Nicosia and the interurban network.
- ▶ **Best Practice Project** - 1st European Territorial Co-operation conference – May 2014

ΔΙΑΥΛΟΣ Sensors & Nicosia & Interurban Network





ΔΙΑΥΛΟΣ Sensors Nicosia & Interurban Network



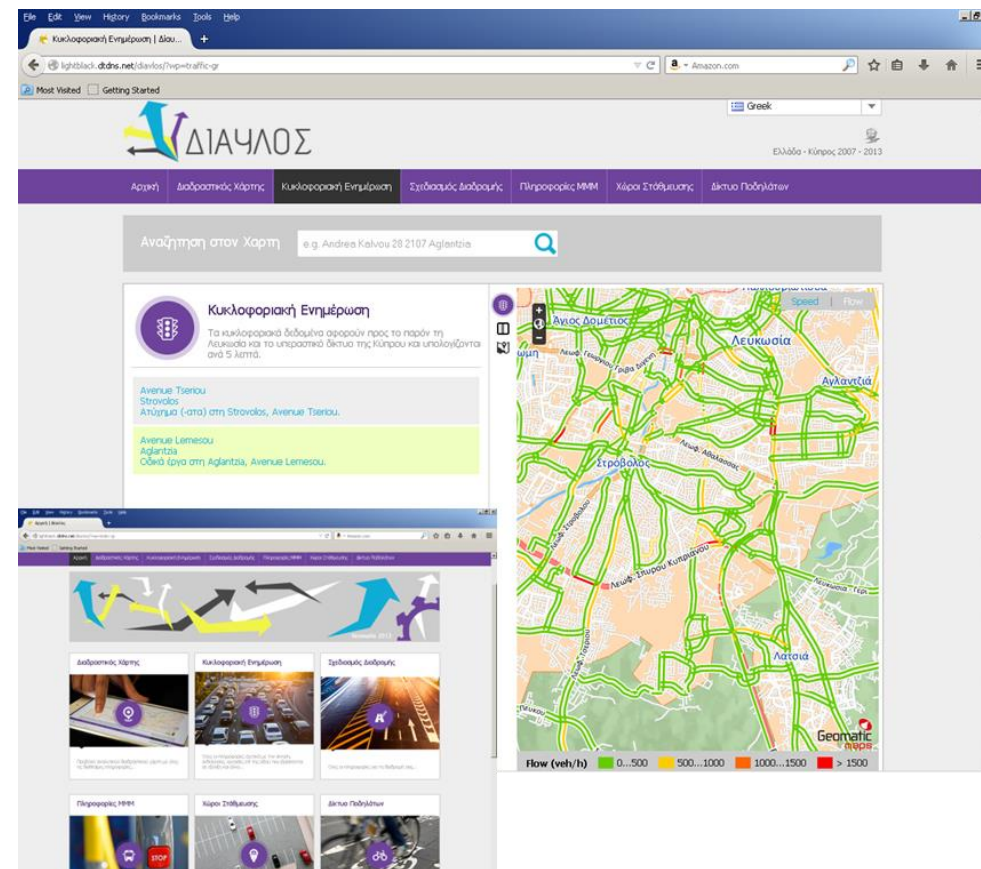
ITS Systems that can be used for Traffic Monitoring & Management:

- ▶ Traffic and incident information is available to the public and other interested agencies (police, port Community, universities etc). The information is also disseminated through the webpage:

www.traffic4cyprus.org.cy

- ▶ Data from that system is shared for research purposes and steps are under way to make that public for private web services developers.

https://www.cestin.ro/web2014/nap_eueip/

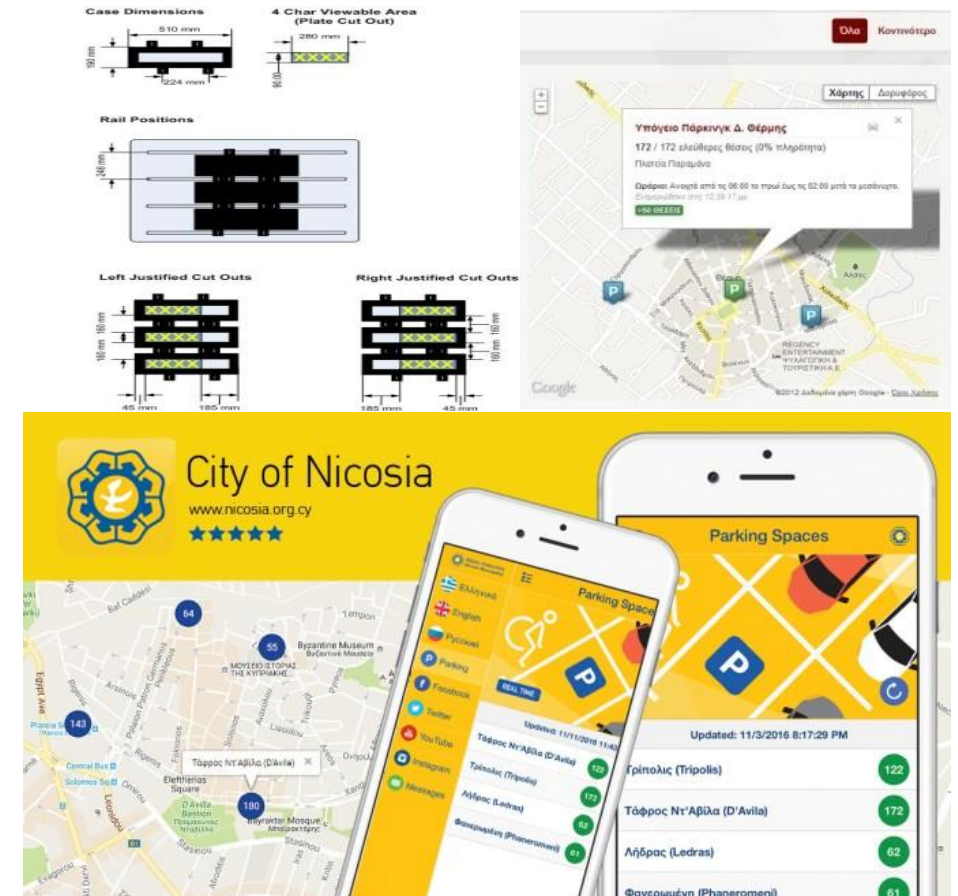


Parking Management:

- A system for calculating the available parking spaces has been installed in 5 central parking areas of Nicosia under the project DIAVLOS. The information is available to road users via electronic signs on the road and the web application:

www.traffic4cyprus.org.cy

- The data from DIAVLOS was made available for the development of a smart phone application by the Municipality of Nicosia
- It can be expanded to cover more parking areas in the whole of Cyprus.
- Best Practice Project** - 1st European Territorial Co-operation conference – May 2014



DANGEROUS GOODS - PRODRAMOS Project

- The goal of **PRODRAMOS Project** was to improve the co-operation between responsible agencies for the management of dangerous goods , oversize and/or overweight vehicles in Cyprus.
- An intensive consultation process has taken place with the responsible agencies examining current procedures and practices.
- Systems were being deployed on the motorway network to provide more accurate information regarding traffic conditions and incidents (as an expansion of the existing system created under DIAVLOS).
- Co-operative systems were developed by our partners in the project – Cyprus Ports Authority and Cyprus University – for being able to exchange information regarding dangerous goods and their routes.
- The project was co-funded by the EU Cross-boarder Co-operation Programme Greece –Cyprus 2007-2013 by 80%.
- **Transport & Logistics Award** – Athens May 2015

<https://sites.google.com/site/itsprodromos/home>

itsPRODRAMOS

Home

Project Definition
▼ PRODRAMOS Live
 PRODROMOS Live Feed
The Research Consortium
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To-Do
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Project Updates
Files
Presentations
Benchmark Dates
Other Links
Contact Us
Project INTRANET (secure login)
Sitemap

317
days until
Project Due Date

Acknowledgement

The PRODRAMOS research project is co-funded by the European Union, Greece and Cyprus.
<http://www.greece-cyprus.eu/>

Η Πράξη συγχρηματοδοτείται από την Ευρωπαϊκή Ένωση (ΕΤΠΑ) και από εθνικούς πόρους της Ελλάδας και της Κύπρου

Home

INTEGRATED PLATFORM FOR SECURITY, INFORMATION AND ACCESSIBILITY
IN INTELLIGENT MULTIMODAL TRANSPORT
("PRODROMOS")

prodromos
Integrated platform for security, information and
accessibility in intelligent multimodal transport

ΠΑΕΓΑΕ
Transport & Logistics
AWARDS 2015

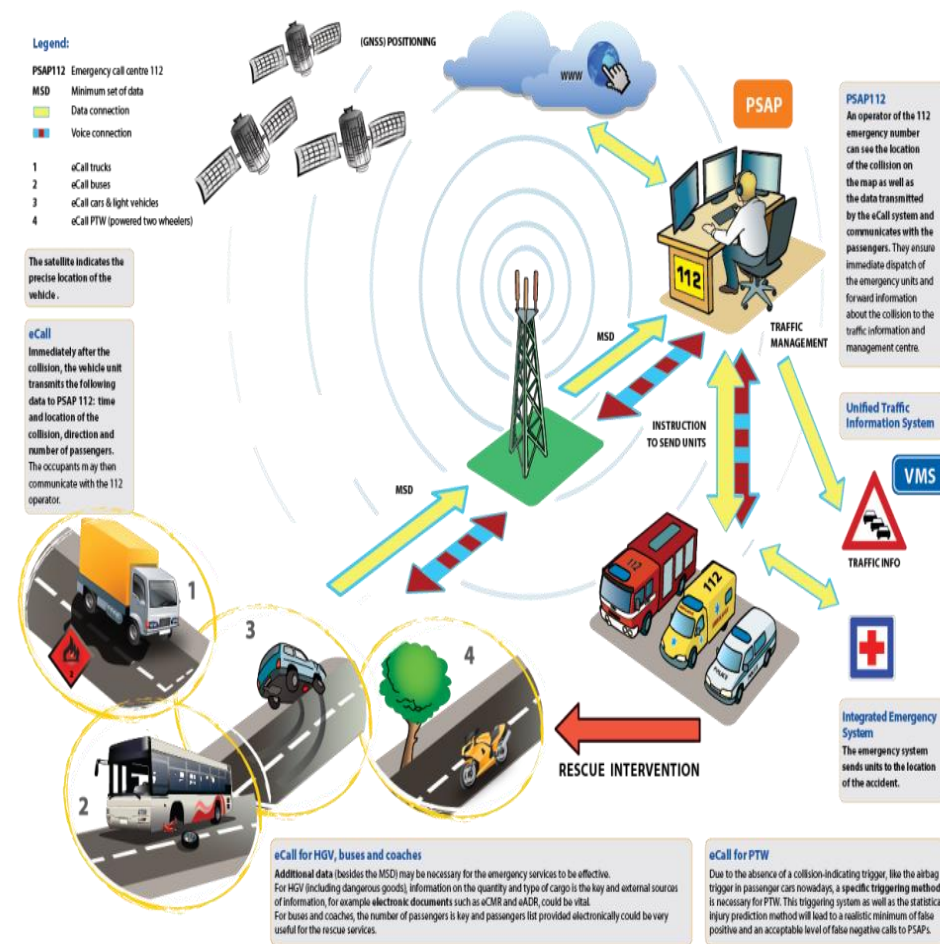
(Note: Browse through the images and/or zoom in to them by using the above media wall and the full-screen option on the lower right corner of the media wall)

WELCOME to the site of
PRODROMOS - a research

Recent announcements

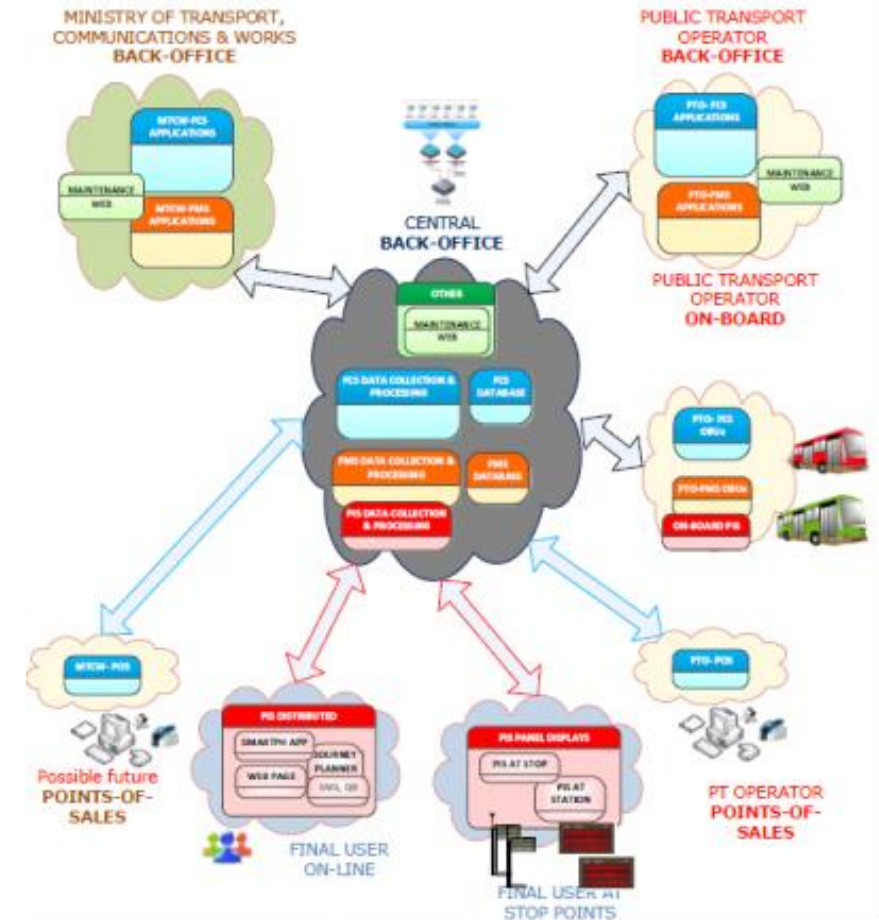
eCall PROJECT:

- eCall is an initiative with the purpose to bring rapid assistance to motorists involved in a collision anywhere in the European Union.
- It's introduction was managed by the Department of Electromechanical Services of MTCW and was completed in 2017.
- Cyprus Participated, as Member State in the I-HeERO Project and pursued:
 - The upgrade of 2 Public Safety Answering Points (PSAPs) for e-calls to 112 & pursue PSAP data integration and dissemination
 - Investigation of the implementation of eCall DGV with the usage of external sources of information (notably the PRODROMOS database)
 - Investigation of using eCall on motorbikes.



Public Transport Telematics:

- Automated Fare Collection System with the use of Smart Cards,
 - Bus Fleet Management &
 - Passenger Information
- The contract was signed with GMV Sistemas S.A. in May 2016 with implementation period of two years and eight years of maintenance.
 - The project goal is to promote sustainable mobility using buses and removing problems in basic public transport infrastructure.
 - Project Budget: € 10m
 - Cohesion Fund contribution: 85%



Public Transport Telematics:

- the design and delivery of the central system software,
- Creation of the primary and disaster and recovery central sites, plus a backup site,
- High Security – Client Access



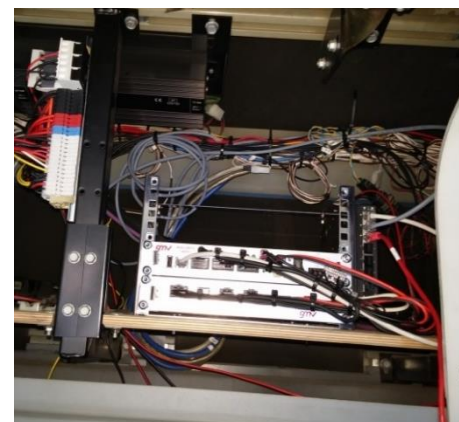
ITS Developed in the
Last 5 Years (5)

ITS Developed in the Last 5 Years (5)

Public Transport Telematics:

➤ Bus Fleet Management

- Installation in 803 buses across Cyprus (7 Operators)



ITS Developed in the Last 5 Years (5)

Public Transport Telematics:

- **Automated Fare Collection System with the use of Smart Cards**





Public Transport Telematics:

➤ Passenger Information

- Integrating with third parties such as Solomou Square Passenger Information System
- 30 more LED Displays at central locations

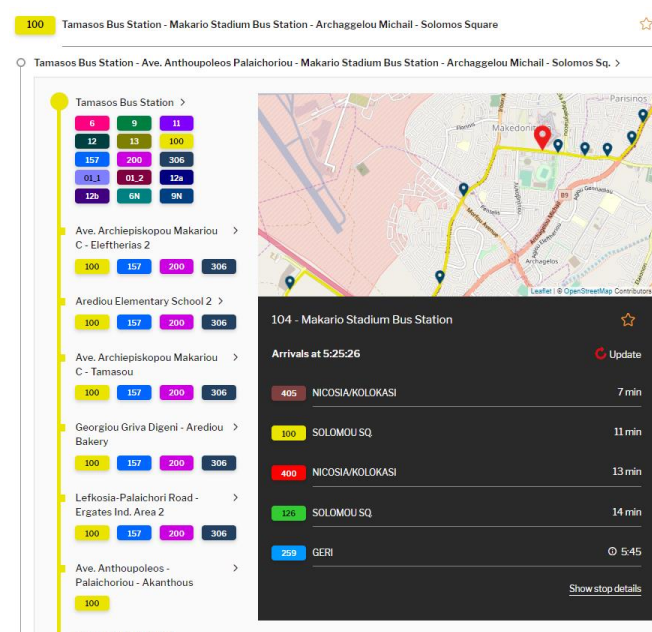
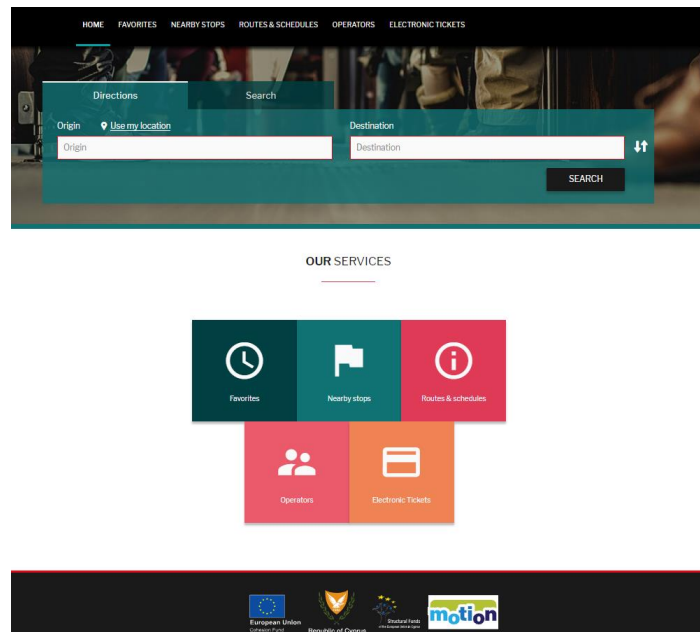


ITS Developed in the
Last 5 Years (5)

Public Transport Telematics:

➤ Passenger Information

- Cyprus Bus – Mobile App
- Web: www.motionbuscard.org.cy

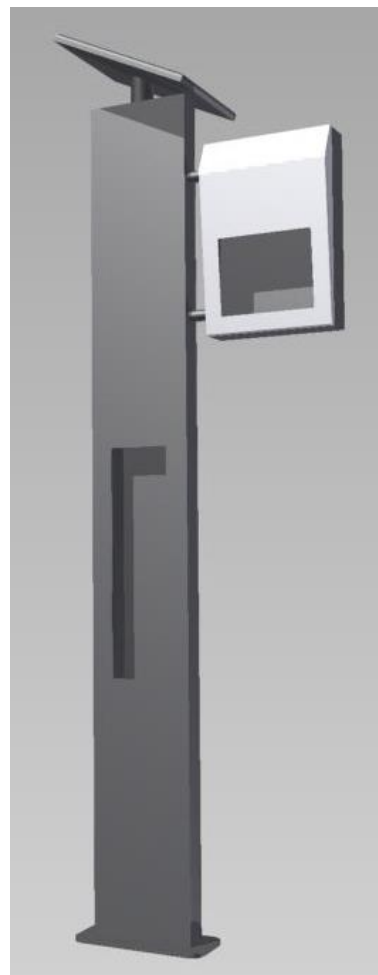


ITS Developed in the
Last 5 Years (5)

Public Transport Telematics:

➤ Passenger Information, Infrastructure, Accessibility

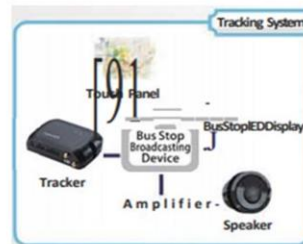
- Partnership with:
- Municipalities & Local Communities across Cyprus
- Partnership with Tourism Development and Promotion Company of Limassol (ETAL) for delivering Telematic Bus Stops & Information displays within Buses in Limassol under **Civitas** and **EY-KINHSH** Projects.



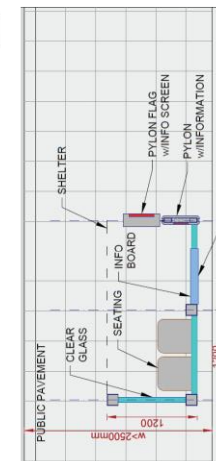
Technical Specifications

Electronic Systems / Telematics / Security Systems
- Intelligent Bus Telematics System

BUS STOPS - Technical Specifications



DEMADES DESIGN
AUTOMOTIVE - INDUSTRIAL



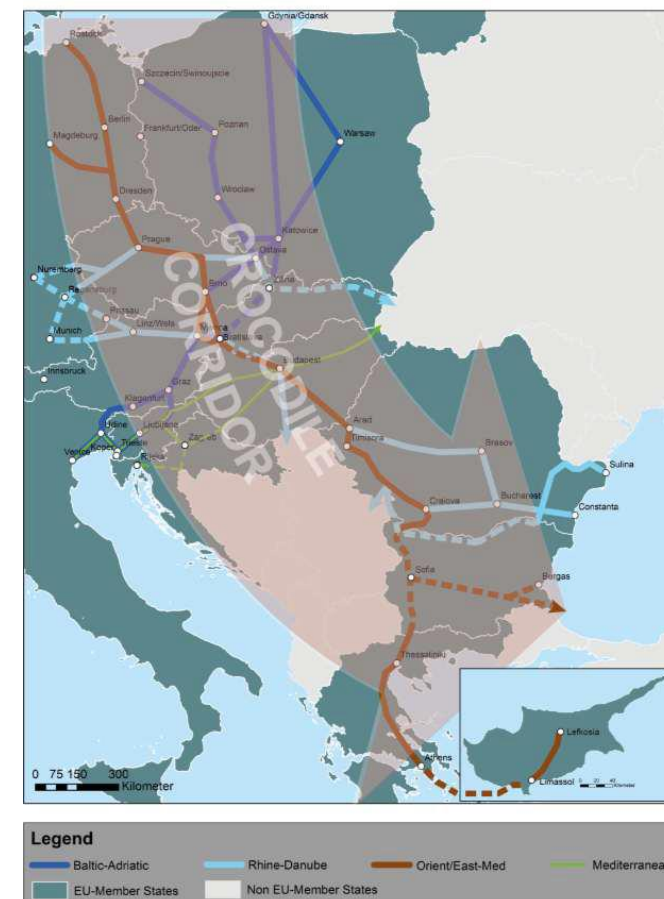
ITS Developed in the Last 5 Years (6)

CROCODILE II & III PROJECTS & TN-ITS GO ((€2.0m aprox):

Seeing Beyond Borders:

- International “door to door” corridors supported by modern infomobility services are extremely important to Europe, but also to Cyprus.
- **The Project CROCODILE was launched in 2013 to establish a trans-national framework to collect and exchange data for putting into place concrete improvements for EU network users. It is co-financed by the European Union’s TEN-T programme**
- PRODROMOS & DIAVLOS open and expandable architecture allows the co-operation to exchange information and develop unified-seamless services on a corridor basis.
- Under the Crocodile & TN-ITS Go Projects Cyprus shall use DIAVLOS Central System to develop its Single Access Point, an obligation under EU ITS Directive (2019-2020).
- The Cyprus Single Access Point shall collect information regarding traffic and other related data, and through analysis shall provide Key Indicator Traffic & Environmental Data. Relevant information shall be made available to third parties for developing Infomobility Services.
- **Project CROCODILE won freight award for smart use of data – May 2016**

CROCODILE - CORRIDOR(S)



ITS Developed in the Last 5 Years (7)

STEP2SMART (€1.8m aprox):

Key Project Objectives include actions that will:

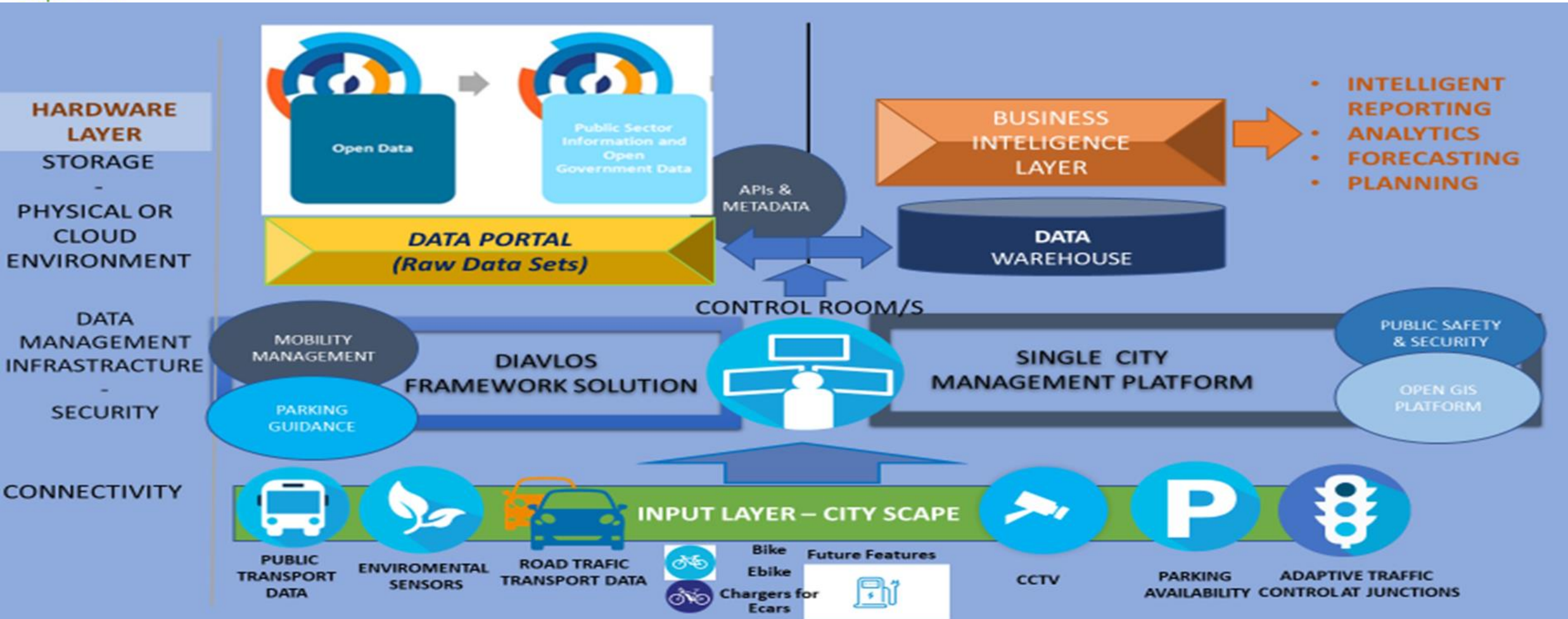
- improve management of traffic at key junctions and corridors,
 - reduce environmental impact and
 - promote public transport
- It will collect information from existing systems traffic loops, Bluetooth detectors, floating car data, but also environmental sensors
 - Introduce Public Transport Telematics Systems and priority measures at traffic lights.
 - It builds on existing systems (DIAVLOS, PRODROMOS, PT Telematics System, Air Quality Platform)

Project Partners:

- Public Works Department – MTCW
- The Department of Labour Inspection of the Ministry of Labour, Welfare and Social Insurance
- University of Cyprus
- Municipality of Chania – Crete
- Municipality of KOS

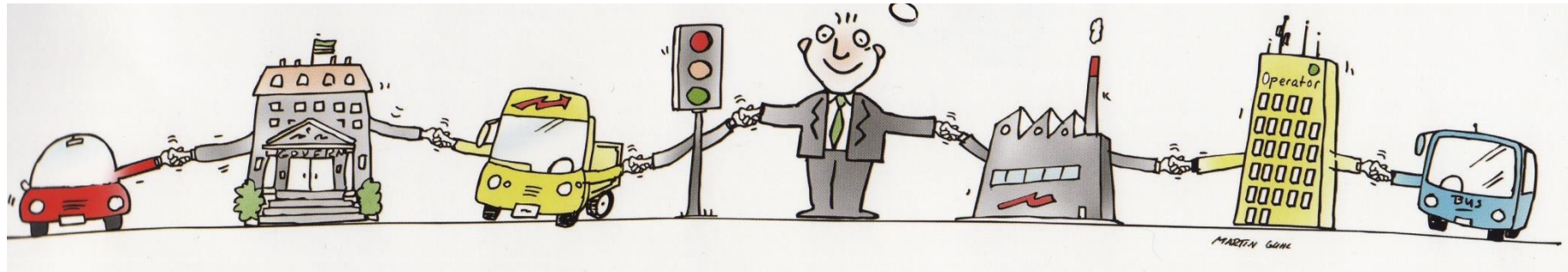
2+ years implementation period – by 2020.





- The Public Works Department pursues close co-operation with all responsible agencies for the implementation and further development of the above projects.
- Important role will also have the private sector in using information from ITS systems deployed and developing services for wider public and/or specialised uses.

*Look how ITS
connects all
stakeholders across
the country to
bring intelligence
into mobility*



Thank You

*Aristotelis Savva
Executive Engineer
Public Works Department
Ministry of Transport Communications & Works*