Day1 - B2 Towards SUMP 2.0

Recent Developments in Intelligent Transport Systems (ITS) in Cyprus

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Since the first feasibility study for the Introduction of ITS in Cyprus in 2008 – which was co-funded by the EU Transition Facility, by 80% - a number of actions have been taken to introduce integrated telematic systems with the objective to:

- Collect, analyze and provide information to responsible agencies and network users regarding the current conditions (Road & Public Transport)
- Improve co-operation between the responsible agencies (public & private)
- Meet our obligations under the EU ITS Directive 2010/40 & PSI Directive 2003/98/EC on the re-use of public sector information
ITS Systems that can be used for Traffic Monitoring & Management:

- The projects DIAVLOS & PRODROMOS helped create by end of 2015 the traffic monitoring centre for Cyprus which uses the management platform OMNIA – MISTIC.

- 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 and disseminates information to users via web www.traffic4cyprus.org.cy, adaptive to tablets & smartphones.

- **Best Practice Project** - 1st European Territorial Co-operation conference – May 2014 & gained a Transport & Logistics Award – Athens May 2015.
Through the CROCODILE II & CROCODILE III but also STEP2SMART Projects Cyprus Moves to Create its SINGLE ACCESS POINT:
PUBLIC TRANSPORT TELEMATICS

THIS PROJECT IS CO-FUNDED BY THE EU COHESION FUND

Its objective is to promote Sustainable Mobility through the increased use of Public Transport and to resolve issues at relevant infrastructure

Project Budget: €10εκ.
Cohesion Fund Contribution: 85%
PT Telematics – Project Scope

**Fare Collection System (FCS)**
- Clearing House
- On Board FCS
- Plastic (Desfire EV2) and Paper (Ultralight) cards
- 32 POS
- E-sales top-up (Internet)

**Fleet Management System (FMS)**
- On Board FMS with PA
- Ecodriving
- Prepared for CCTV & PC
- Control and Monitoring in Real Time
- QoS Reports
- Integration with external planning system

**Passenger Information System (PIS)**
- LED Displays in Stops and Stations
- On Board PA
- Website information
- Integration with Google Mobile Apps

**Scope**
- 7 PT Operators
- Approx. 800 Buses
- 2 years implementation period
- 8 years warranty and maintenance
Project Goals

• Provide modern technology to the buses fleet
• Monitoring and Control
• Valuable information for the Ministry of Transport
FCS Architecture
FMS Architecture

PT concession contract
- Compliance
- QoS

Management:
- Monitoring
- RT Control
- Comms with Fleet
- Eco-driving

ETA & Service Info
- On-Board: Audio Announcements, Advertising
- Others: WEB, smartphone Displays

Customer Complaints & Suggestions Handling
PIS Architecture
Project Highlights – Different On Board architectures

- Driver Console with integrated GPRS/3G
- Driver Console + OBU + Passenger Announcement
- Expansion
Project Highlights – IT Infra

- Primary Site in Nicosia
- Disaster Recovery Site in Limassol
- Ministry Site: in Strovolos
- 7 PT Ops in different sites along Cyprus
- POS, WS, Cashiers, Displays spread along Cyprus
- Voice & data communication with buses
- TIER III
Project Highlights – FCS

- Paper Ticket
- Anonymous non-rechargable (Ultralight)
- Both anonymous and personalized cards (Mifare Desfire EV2) to be sold in POS
- Clearing House for conciliation between Ministry and PT Operators
- E-sales to top-up cards
Project Highlights – PIS

- New 30 LED Displays
- Integration with Existing Displays (SIRI)
- Responsive website for PCs, Tablets or Smartphones (motionbuscard.org.cy)
- Mobile Apps
- Google Transit Integration
- On Board Passenger Announcement
Conclusions

• No previous background in ITS in Cyprus
• Needed to adapt to the country specific features
• Needed to provide different on board architectures
• PT Ops can optimize their management
• Final users perception will improve
• MTCW is able to launch the new concession tender
Thank you!

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