EGNATIA ODOS AE

- State-owned company
- Commissioned to construct, maintain and operate the Egnatia Motorway
- Part of the Trans-European Road Network
- Starts at the port of Igoumenitsa (Ionian sea, West) and ends at Kipoi (Greek-Turkish border, East) – 680 km long, currently 350 km open to traffic
- Outsourcing of the routine maintenance works

RMMS
An integrated information system comprising computerized procedures used by motorway organizations for the effective management of the routine maintenance of motorways

Structure
- Network Manager
- Maintenance Manager
- Structures Manager
- Document Manager

DATA BASE (Oracle 8.1.5)
Spatial Data Manager (GIS – ArcView 3.2a)

RMMS Modules
1. The Motorway Network
2. The Motorway Inventory
3. Inspections/Patrols and Defects
4. Reports
5. Budgets, Contracts and Contractors
6. Work Orders and Treatment

The Motorway Network
Linear Referencing System (LRS)
- Maintenance Section
- Maintenance Link
- Maintenance Group

Item & Defect identification based on:
Section, Chainage, Cross Sectional Position (XSP)
The Motorway Inventory for Routine Maintenance
- Inventory surveys (video or/and on foot) are based on the LRS
- Point and Linear items
- Nine (9) categories of road items
  - Carriageways & Verges
  - Central Reserves & Sidewalks
  - Drainage
  - Embankments & Cuttings
  - Grassed Areas & Trees
  - Safety Equipment
  - Road Markings & Traffic Signs
  - Electromechanical Equipment
  - Structures

Inventory Input Details: Verge
- Item Code: ER
- Start Chainage: (± 1 m)
- End Chainage: (± 1 m)
- Kerb: 1. Yes 2. No
- Width: (± 0.1 m)
- Comments:

Inventory Items Form

Inspections & Patrols
- Safety Inspections (once a week)
- Safety Patrols (six days a week)
- Detailed Inspections (once or twice a year)

Unique Identification: Inspection ID

Defects
- Category 1: require prompt attention because they represent an immediate or imminent hazard
- Category 2: all other defects

Unique Identification: Defect ID

Reports
- In-house reports for Inventory, Defects & Work Orders
Budgets, Contracts & Contractors
- Create, maintain & review budget data

Work Orders & Treatments
- Prepare and issue work orders (w.o.)
- Unique identification and link between w.o. and their associated defects and inspections

Geographical Information System (GIS)
- Spatial Data Manager (SDM): a map-based interface of RMMS
- Functionality:
  - Full graphic editing of the motorway network held in Network Manager
  - Graphic display of all associated network data
  - Spatial query tools
  - Spatial navigation of the RMMS database
  - Spatial processing tools (e.g. buffer, within/without, nearest, etc)
  - Map production tools

Conclusions
- First time in Greece
- Effective management and supervision of the motorway routine maintenance projects
- ...next step: application of the Document Manager and Structures Manager

Thank You