WHY DATEX II WAS SO IMPORTANT TO US?

CARLOS COSTA

ARMIS CEO

ARMIS IT

INFORMATION TECHNOLOGY

2005

ARMIS ITS

INTELLIGENT TRANSPORT SYSTEMS

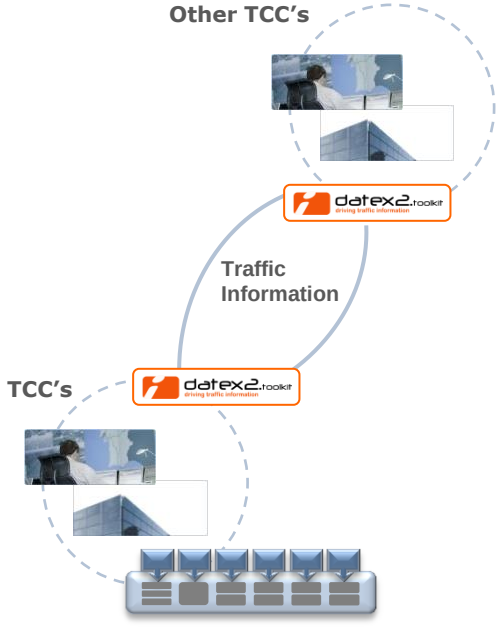
DATEX II

2005 — 2006

datex2.toolkit
driving traffic information

DATEX2.Toolkit was one of the first worldwide implementations of the protocol (2006).

- DATEX2Toolkit was a solution to enables traffic information exchange between entities
- Complete implementation of DATEX II specifications
- Quick & cost effective deployment.
- Simple Message Gateway!



ARMIS ITS

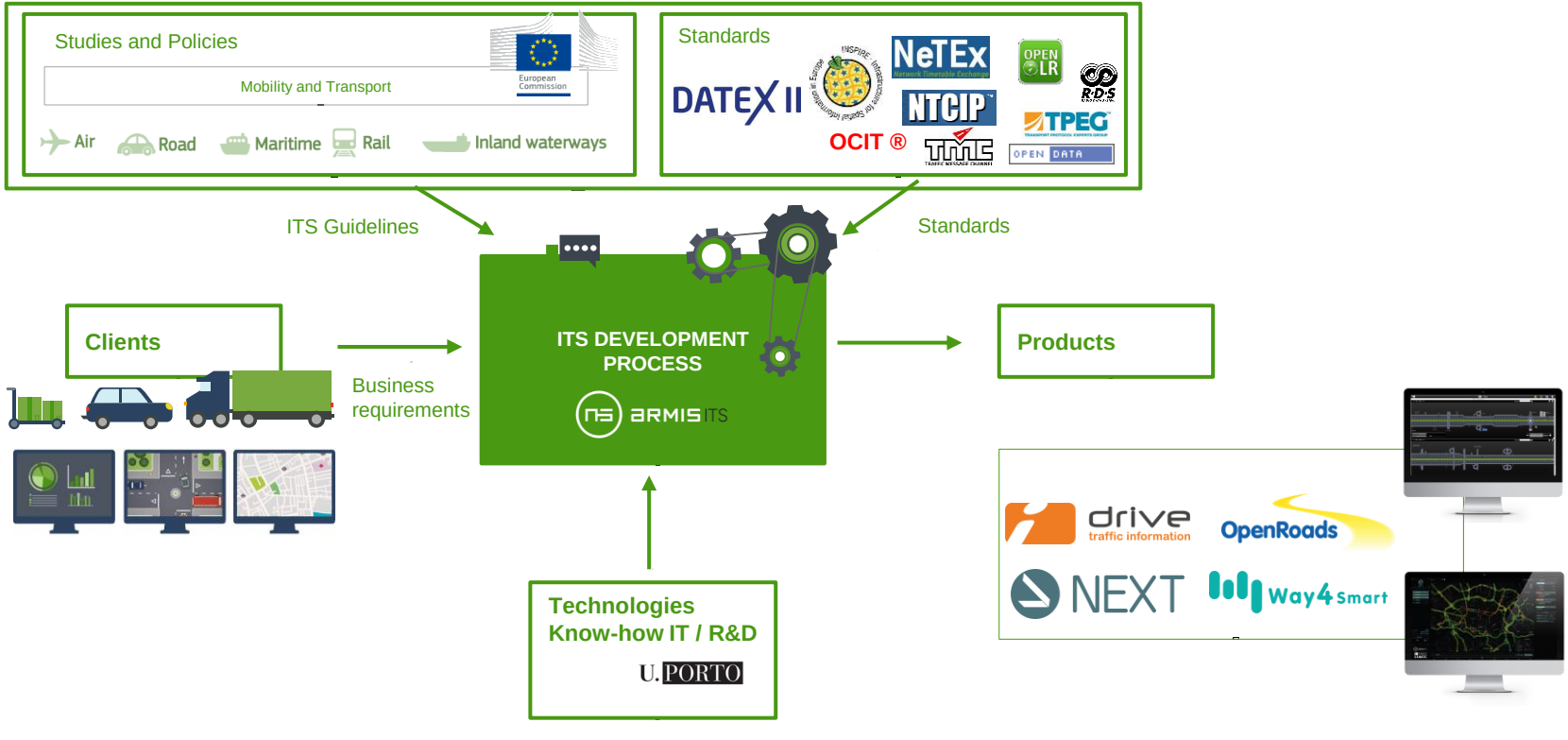
INTELLIGENT TRANSPORT SYSTEMS

DATEX II

European Commission

2005 — 2006 — 2018

ARMIS PROCESS DEVELOPMENT



MANAGEMENT / SUPERVISION

Way4Smart

- Smart Mobility Management as a Service

OpenRoads

- Infrastructure Monitoring / Contract Supervision

CONTROL OPERATION CENTER

drive traffic information

- Traffic
- Public Transport
- Parking
- Other Services

NEXT

- Prediction / Simulation / Planning

NATIONAL TRAFFIC DATA WAREHOUSE
OPENROADS

MISSION: National Traffic Data Warehouse that evaluates road concessions compliance, the infrastructures quality and the concessions financial monitoring.

PROJECT IMPLEMENTATION:

Provide:

- ✓ Improving Business Intelligence and analysis skills;
- ✓ Datex II Profiles – Situations and Measures
- ✓ Datex II Extensions - Infrastructure quality assessment

Allow to know:

- ✓ What is happening on the road network;
- ✓ With a granularity of 100 mts, on each motorway, each lane, each day, every hour;
- ✓ Openroads is a powerfull tool for assessing Concessions performance
- ✓ Supervise and Controls more than 15 concessions, with different rules and financial contracts

PORTUGUESE NATIONAL TRAFFIC CONTROL CENTER (IP)

TRAFFIC MANAGEMENT

Infraestruturas de Portugal

MISSION: Supervise and manage the Portuguese Road Network according to the model of road concessions in Portugal, IP (Infrastructure of Portugal) has as part of its the responsibility.

PROJECT IMPLEMENTATION:

- Implementation of DRIVE platform on the Traffic Control Center for traffic management
- Implementation of an ITS solution that follows the most recent EU recommendations and the most innovative ITS services.

- ✓ Monitoring and network supervision
- ✓ Incident Management and traffic management plans
- ✓ Infrastructure and roads work management
- ✓ Traffic Surveillance, operating and control of all types of equipment's on the roads
- ✓ Data Analysis and traffic performance indicators
- ✓ Data Exchange / sharing data with other entities

drive traffic information

DATEX II

NEXT

OPORTO CITY (URBAN CONTROL CENTER)

FORECAST, SIMMULATION AND TRAFFIC PLANNING

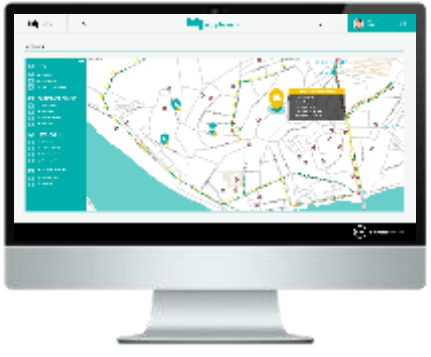
C-ROADS

MISSION: Control and real-time traffic management.

PROJECT IMPLEMENTATION:

- Install a solution for traffic forecast system at Traffic Control Centre (TCC) of Oporto
- Gather real-time traffic information for traffic data forecast and decision support algorithms (advices, warnings, …).
- Allows to perform simulations and network planning operations, with existent data:
  - ✓ Urban Data (traffic data signals, Incidents)
  - ✓ Interurban Data (traffic data, Incidents), exchange data with IP (National Control Center) using DATEX II protocol
  - ✓ Public Transport Data (static and Dynami… da…CP (Public Transport Control Center) using N…

DATEX II NeTEx Network Timetable Exchange



AMP (OPORTO MOBILITY AND TRANSPORT AUTHORITY)

SMART CONCEPT

C-ROADS

amporto

MISSION: Collect information from Operators of Mobility (Traffic, Public Transports and others), manage and coordinate his network and exchange the information with other entities.

PROJECT IMPLEMENTATION:

Manage its Mobility Network and Plans by collecting information from:

- Public transport operators using NeTEx protocol;
- Traffic Operators using DATEXII protocol;

This project will also be able to integrate this information with the National Access Point, integrating this information with information from other networks and publishing to the end user.

Way4 Smart

DATEX II

NeTEx Network Timetable Exchange

COMPETE

QUADRO DE REFERÊNCIA ESTRATÉGICO NACIONAL

UNIÃO EUROPEIA

ARMIS GROUP

ONDE
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GMT	PORTUGAL
00.00	ANGOLA
+1	ESPANHA
+3	RÚSSIA
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