

# The Company's Activities in EC's FP7 and ESA projects relevant to Satellite Communication and Navigation

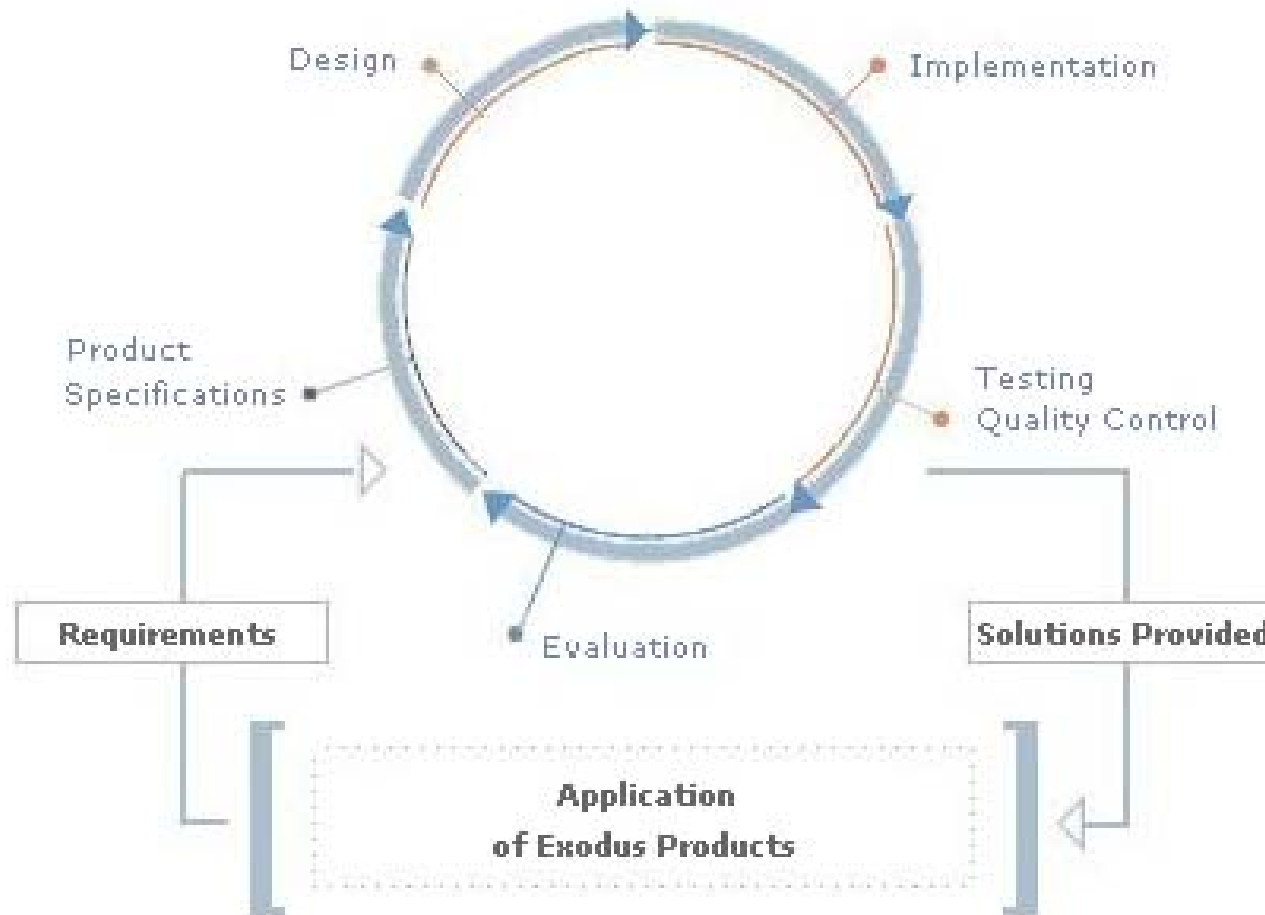


**Dr. D.Vassiliadis**  
Project Manager, Research and Development

## Company's Bio

- Founded in 1994
- Strategic Alliance with the Bank of Piraeus in 1999 boosts Company's Activities in the Banking Sector and Business Process Management Systems
- Established as a major software house in Greece, with ever-growing influence in the Balkans and Middle-East
- Currently occupying 120 staff

# Operations



## Company's Products - 1

- **e.Centric Platform** – is aimed at public and private sector organizations whose basic needs are fully covered by a classic computer infrastructure, and who have now become aware of the need for a new range of Web-based, user-centred applications designed to allow information and knowledge to be put to the best possible use.

**e.CENTRIC**  
PLATFORM v3.0



- **Neverfail** – Platform addressing reliability and resilience over high availability of applications

## Company's Products - 2

The EXODUS **e.Learn platform** is a Learning and Content Management System which enables all the information relevant to the learning process to be assembled in one place and the learning process itself to be administered, documented, and assessed.

The EXODUS **e.Learn platform** is an essential tool for storing, organising, and presenting knowledge, and is an innovative product that meets the needs of every business and educational organisation wishing to provide and administer training via the Internet.

## Satellite Navigation

- For several years EXODUS has been active in the field of Satellite Navigation Systems.
- Pioneering Platforms based on GNSS, EGNOS, Galileo for tourism, info-mobility, safety-critical and cultural asset applications
- Integration of novel system architectures based on platform openness to ensure viability of products, applications and services in a dynamically changing market

- This project targeted the Cultural Heritage domain with the establishment of **User Community groups, fostering the design and implementation of selected applications with a strong accent on validation of results, economical viability of systems and its dissemination.**
- **Our activities opened new horizons for the application of Satellite Navigation to the Cultural Heritage world, weakly exposed to the potentiality of GNSS, creating new awareness of the innovative and powerful applications offered from GALILEO.**

**Secure Asset Transportation**



*Remote Command and Control with Smart-Alerts and Enforcement of Security Policies*

*An all-in-one solution for secure assets transportation nail-to-nail*



**Asset RFID Tag with GNSS-Certified Data**

**Safe-Box with Sensors, Asset Box Unit, Egnos Receiver and GPRS**



**Command and Control, Navigation and Alerting in Ruggedised and Portable User Terminals**

**Advances Fruition Services in open Archeological areas**



**Intelligent Personal Routing, Guidance and Multimedia certified Data for Assets in Archeological areas.**



**RFID ticketing services**



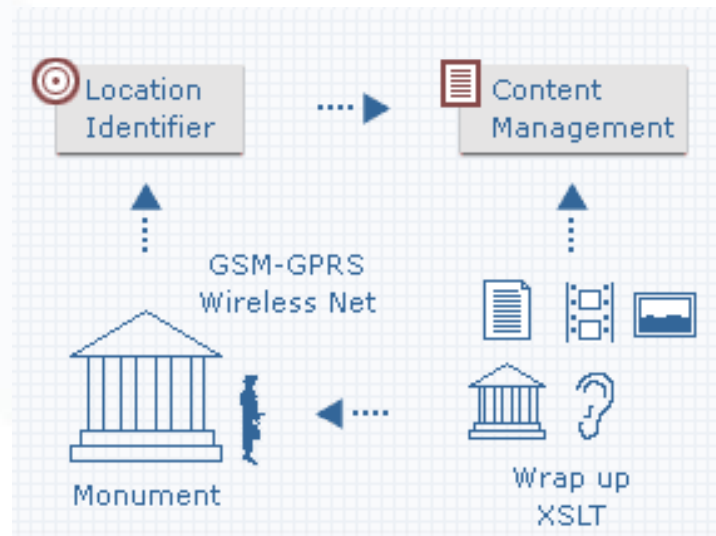
## M-guide

- The project developed and deployed a System for providing Location Based Information Services for the city of **Athens, Greece** and **Turku, Finland**.
- The main core of Information content that was deployed in the marketable project results consisted of Tourist information on specific monuments and sights of down town areas, neighboring information and public services hot spots (Tourist Information Kiosks, exhibition centers, theaters, etc.).

## M-guide

The end user is provided with:

- A simple way to navigate through historic monuments and sights of the cities.
- An inexpensive, on-demand information guide
- Accurate information on his/her current location
- Credentials for the information retrieved



## *Galileo benefits for Timing User Community:*

- **Precise Time** and **Synchronisation** at every isolated or remote location with greater availability/accuracy/QoS than existing GNSS because of: **More GNSS satellites**
- **More Power** (good in difficult environment)
- **Pilot tones** (improved tracking in difficult environment)
- **Greater BW and Signals** (less interference and multipath)

## HARRISON

- **Authentication of SIS**
- (trusted, traceable, certifiable, potential legal Time information)
  - **Integrity information** and **Warranty of Service**: Reliable, dependable, no gaps Time and Synch source (availability, robustness, guarantee)

## Current and Future Activities - 1

- Use of our **e.Learn Platform** over Broadband Satellite Networks for the provision of Education in remote and insular areas  
**(ESA ARTES-4)**
- Personal and Corporate Security Systems based on the use of GNSS terminals (Tracking of Patients, Monitoring of Cargo-Container Lifecycle)  
**(FP7 – Galileo, GSA)**

## Current and Future Activities - 2

- Demonstration of Large Event Visitor Mobility Management in Real-time **(FP-7 Transport)**
- Multimodal Transport Systems for optimising movement and travel-time for metropolitan areas **(FP7 - Transport)**
- Cognitive Systems for emergency monitoring with use of satellite communications systems **(FP-7, ICT Call 3 Challenge 2)**

## Current and Future Activities

- Support to First Responders operating in critical infrastructures during an emergency by means of Satellite Navigation and Communication for achieving optimal resource management and event handling processes.  
**(FP7, ICT-Security)**
- Planning on exploiting our banking platforms over satellite networks. **(FP7 – Security)**

**Thank you for your time**

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