ELLECTRA-WeB project

Kostas Thiveos
Senior Consultant,
Research & Innovation Development

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Presentation Outline

- Short company profile
- ELLECTRA-WeB project overview
  - Public Procurement in EU
  - electronic Public Procurement in EU
  - Challenges
  - Technological innovation
  - Motivation
  - Objectives
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INTRASOFT INTERNATIONAL S.A. in a nutshell

- Leading European company in the field of ICT services (established in October 1996)
- Broad portfolio of business activities mainly in the public sector, including national & international organisations. The company’s offering is grouped along 4 service lines:
  - Application Development & System Integration
  - Networking & Security Services
  - e-Government Solutions & Managed Services
  - Outsourcing, Consulting and Professional Services
- Employs 700 professionals working in Belgium, Luxembourg, Athens, and Romania 89% of which have postgraduate degrees, representing 17 different nationalities and mastering more than 15 languages
- Impressive organic growth. Consolidated organic revenue in 2006 reached 52.6 million (2005: 46.4 million) with Profit Before Tax of 4.5 million, representing over 40% Compound Annual Growth Rate.
ELLECTRA-WeB project

European Electronic Public Procurement Application Framework in the Western Balkan Region

IST project co-funded by European Commission (FP6)

*Duration*: 01/01/2007 - 31/12/2008

*Budget*: ~1,9 million Euros

**Objective**

- to develop an Open Source electronic Public Procurement (ePP) Application Framework that facilitates the cost-effective implementation of electronic Public Procurement solutions that are compliant with the EC directives and EU best practices
Public Procurement in EU

- Public Procurement in EU is governed by EC Directives

- Directives 2004/17/EC and 2004/18/EC
  - Set the ground for EU Public Procurement Market liberalisation
  - Impose Competitive Tendering to ensure best VFM
  - Impose non-discriminatory and transparent Awarding Process
  - Sets legislative framework for electronic Public Procurement

- Any business with a PC, internet connection and basic knowledge of public procurement can tender for contracts across Europe

- By 2010, all EU administrations will have the capability of carrying out 100% of their procurement electronically
Electronic Public Procurement

Electronic Public Procurement across EU
- Member States have started to implement ePP solutions (Germany, Norway, UK, …)
- Uncoordinated developments at local, regional or national level
- Developed by smaller SMEs targeting ‘Tendering’
- Major commercial products targeting ‘Purchasing’
- Lack of common functional specifications at EU level

Electronic Public Procurement solutions in EU
- Low-level bespoke design and coding
- Specifications lose their value as soon as coding starts
- Weak documentation
- Complex multi-tier, client-server architecture

⇒ Costly implementation of ePP solutions
Challenges

Capital investment of implementing electronic Public Procurement solutions is a major barrier

- How to reduce development cost of electronic Public Procurement solutions?
- How to reduce development complexity?
- How to shorten development time?
- How to ensure EU-compliance?
- How to facilitate deployment and use?
MDE-based S/W Engineering

1. Requirements collection and Domain analysis
2. Domain Model
3. Requirements written in text in high-level UML diagrams
4. Transformation of requirements
5. Platform Independent Model
6. Transformation into a technology-oriented UML model enriched with artifacts of the target platform
7. Platform Specific Model(s)
8. Transformation of technology models into specific code
9. Code
Service-Oriented Architecture

ePP solutions that are based on distributed, Web-based architecture

- Modular
- Interoperable
- Standardised
ELLECTRA-WeB: Motivation

- With SOA/MDE, no code writing but code generation from technology-independent, pre-defined models

- If ePP SOA/MDE models are given, we can achieve:
  - Reduced development cost
  - Reduced complexity
  - Shorter development time
  - Consistent Documentation
  - Portability
ELLECTRA-WeB: Objectives

- Develop Open Source Development Environment for ePP Solutions generation based on predefined ePP SOA/MDE models (Application Framework)

- Develop Guidelines for ePP Solutions Implementation

- Develop Guidelines for Public Organisations reorganisation

- Develop Guidelines for Suppliers participation in ePP

- Influence WB by pilot use of ePP solutions
ELLECTRA-WeB: Expected impact

- Transparent processes – fair utilisation of public funds.
- Equal participation opportunity to both WB SMEs and large organisations.
- Facilitating access of EU suppliers to WB public procurement.
- Facilitating access of WB suppliers to EU public procurements through interoperable systems.
- Increase the demand of IT applications, to the benefit of local ICT developers, especially SMEs

*ELLECTRA-WeB will showcase how the use of innovative Information and Communication Technologies impacts competitiveness*
Thank you for your attention

More info on ELLECTRA-WeB available at:
http://www.ellectra-web.eu