

FP7-ICT-2011-7. OBJECTIVE 1.3

PLATFORM FOR PREVENTION AND EARLY DETECTION OF EMERGENCY SITUATIONS

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PLATFORM FOR PREVENTION AND EARLY DETECTION OF EMERGENCY SITUATIONS

- 1.3 Internet-Connected Objects, specially b) Adaptive software supporting data acquisition.
- Complex Event Processing (CEP) and monitoring allows catching and correlating any kind of incidents.
- SOA 2.0 (Event-driven SOA) allows automatic response to changing environments.
- Using these emerging technologies, we pretend to come up with a platform which permits to capture diverse events that happen in corporate information systems and react in consequence sending the corresponding alarm.
- In this regard, there are several applications in real-time monitoring of business process in different market areas, such as health, transportation, logistics...

Objectives

- Analyzing and developing several alternatives for building event-driven architecture-based platforms that ease their integration with service-oriented applications.
- Using domain-specific conceptual models to represent the patterns to be located as well as to facilitate CEP systems automatic code generation.
- Designing mechanisms for real-time generation of alerts linked to the occurrence of the predefined patterns.
- Implementing a non-profit prototype through the use of the software Platform in a pilot project.

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Consortium

University of Cádiz (Spain)

- Expertise on SOA, MDA and AOP
- Guadalupe Ortiz, <http://neptuno.uca.es/~gortiz/>

SME Novayre (Seville, Spain)

- Expertise on SOA, BPM and CEP
- Víctor Ayllón, <http://www.novayre.es/>

University of Birmingham (UK)

- Expertise on SOA, MDA and DSL
- Behzad Bordbar, <http://www.cs.bham.ac.uk/~bxb/>

Other prospective partners in additional European countries

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Expected impact

- When opening a new range of Internet enabled services we get higher communication and integration of business processes in society, for instance for health or urban services.
- Several applications for health or transportation based on these novel business models can save many money to governments and enterprises.
- Innovative technical solutions for fire detection or other natural disasters or for improving agriculture productivity (i.e precision viticulture) are of vital importance for environment and for the emergence and growth of SMEs.

Requests and contact details

- We are looking for partners, if possible with experience in the FP7 programme,
 - a) who are going to apply in this area and need a partner for the scope of our proposal.
 - b) who can complement our proposal with their knowledge in close areas to fulfil the Call topic, especially partners with expertise on:
 - ESB, SOA, WS
 - Mobile devices
 - Semantic Web
 - Data Mining

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