

ORCHESTRA Day
12/12/2007, Stresa (Italy)

ORCHESTRA: Developing a Unified Open Architecture for Risk Management Applications

Introduction

José Esteban
Atos Origin

© ORCHESTRA Consortium

orchestra

ORCHESTRA Basic Facts



- The European Commission (EC) highlighted the strategic objective of “Improving Risk Management” within the FP6 IST Programme
- ORCHESTRA is an Integrated Project of FP6 coordinated by Atos Origin
- ORCHESTRA stands for “Open Architecture and Spatial Data Infrastructure for Risk Management”
 - Started in September 2004, ending in February 2008
 - A consortium of 14 partners in Europe
 - A budget of 13,7 M€, with 8,2 M€ funded by the EC



Why ORCHESTRA?



- EU citizens and environment have to face different risks, natural and man-made.
- Disasters do not respect national borders
- The number of events, victims and economic losses is increasing
- Governments, civil protection bodies and emergency services are becoming more dependent on integrated information systems to address different phases of Risk & Disaster Management in complex trans-boundary, multi-risk scenarios
- Such integration is difficult due to lack of
 - common terminology,
 - accessibility and availability of data,
 - interoperability (e.g. lack of standards and their use),
 - co-ordination, procedures and business models, ...
- In summary, existing legacy systems were not designed to work together



ORCHESTRA Objectives



- Improve efficiency risk management activities through:
 - The design and implementation of an open service-oriented architecture based on standards (de-facto and de-jure) and in INSPIRE and GMES specifications
 - To validate the architecture in multi-risk scenarios, developing the sets of services that are most useful and adequate for the risk management end users



ORCHESTRA Results

- The Reference Model for the ORCHESTRA Architecture (RM-OA)
 - OGC Best Practice status
 - <http://www.eu-orchestra.org/publications.shtml>
- The specifications of ORCHESTRA services
 - <http://www.eu-orchestra.org/publications.shtml>
- ORCHESTRA software components and tools
- 4 pilots + Federated pilot
- The ORCHESTRA book
- The ORCHESTRA on-line Training Units



The ORCHESTRA Day



- Objectives
 - Present ORCHESTRA results
 - Discuss topics of interest in environmental risk management
 - Demonstrate the ORCHESTRA implementations
 - Network
- Agenda
 - Document





Thank you for your attention

José F. Esteban Lauzán

jfernando.esteban@atosorigin.com

Atos Origin
Albarracin 25
28037 Madrid
Spain

Tel: +34 91 214 8613

Fax: +34 91 754 3252

www.eu-orchestra.org

