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WIN, a new SOA for risk management

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The Wide Information Network (WIN) Integrated Project (EU FP6 Call 2 DG IST) integrates existing reference results and initiatives to contribute to the design, the development, and the validation of what could be referred to as a "European risk management info-structure".

This 'info-structure' will be a major element of the future European Spatial Data Infrastructure (ESDI) and of Single European Information Space for what concerns the environment and risk management.

WIN project includes in particular:

- The design of the Info-structure optimised in terms of use of state-of-the-art information technologies and high capability to inter-operate data, services, and risk management actors;
- The definition of a data/information model valid for risk management issues relevant to Europe and in line with European geo-information standards (IN-SPIRE);
- The development of a basic set of generic core services that can be deployed to cover major needs of various actors, whatever the specific thematic field;
- The investigation of multiple stakeholder business and organisational models;
- The evaluation of WIN added value through real life experimentation scenarios ;
- The definition of the info-structure deployment roadmap.

WIN high interoperability directly results from the compliance of WIN info-structure with existing and emerging standards (ISO, OASIS, W3C, OGC,...) and the collaboration established with several other projects like: DG INFSO other projects on risk management, DG Entreprise support actions on Data harmonization, DG ENV INSPIRE initiative, European Space Agency (ESA) GMES Services Elements and HMA (Heterogeneous Mission Access) projects for what concerns interfaces with GMES services and interfaces with Space systems Ground segments.

Started in September 2004 and ending late 2007, WIN project has successfully performed its second annual review. Its results, including the data information models, the service oriented architecture with its set of generic services and workflow management facility, constitute an efficient and open framework, useful on various environmental and risk management contexts.

The last year of WIN project will be focused on validation, experimentation, evaluation and preparation of the deployment of the solution, in several thematic.

Two domains of experimentation are defined:

- Marine and Coastal domain with experimentations related to oil-spill monitoring and response process, in relation with Marcoast GSE project and several users and service providers in France, Spain, Italy, and Greece,
- Land risk management domain, with experimentations on fire and floods disaster management in relation with French and other countries Civil protections.

Planned experimentations will allow to evaluate benefits of WIN and in particular:

- The capability of WIN to support end-to-end oil spill monitoring and response
 process, managing all required information, interfacing with dedicated services,
 disseminating to relevant information to relevant users, including notification
 and alert in case of crisis,
- The capability of WIN to improve risk management for what concerns fire and floods, through its unified wide catalogue, its GIS capabilities (combination of various sources of information, like EO data and in-situ or cadastral data), the management of on-demand data ordering in case of disaster (based on "International Charter Space and major disasters" model), and other cooperative facilities.

WIN deployment roadmap targets at a wide range of opportunities at European and

regional level, on several thematic like shoreline monitoring, water resources management, and various land-based risks management domains