Next Generation of Environmental Information and Risk Management Systems (EIS/RMS)

The increasing frequency, severity and consequences of floods, forest fires, storms and other natural hazards sensitive to climate changes in Europe, has clearly shown that the state of the art of environmental monitoring and information systems do not fully meet the needs of early warning, alert or (public) information systems.

Observed inefficiency is primarily a consequence of historic and organizational factors, but an exorbitant amount of work on data and service standardization would be required to build more efficient environmental monitoring and information systems using state of the art technology. Emerging technologies in risk monitoring and management have a potential to speed up the necessary organizational and structural information infrastructure, rapid deployment of monitoring systems (sensors) and quality assured high speed collection of data will challenge our future development and form key measurable success factors in this domain.

ISESS 2007 will work toward overcoming these obstacles and challenges through sharing of research in the areas of monitoring, alert or information systems related to the domain of environment and/or risk and crisis management. Papers covering emerging technologies (use of semantics, sensor web, SOA, etc) for architectural aspects of environmental monitoring and risk management are also sought.

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