

Integration of Geospatial Data to Support the Management of Industrial Risks

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The European Directives SEVESO (1982) and SEVESO II (1996) have been transposed into the national legislations to provide a framework for the control of industrial and technological risks. Authorities and industrial managers need today information and tools to support the implementation of the Directives and to make the correct decisions in case of industrial accident. The “Agence pour la Prévention et la Sécurité” (APS) will establish, in Wallonia, an industrial risk management centre with the infrastructure and competences required to deliver to the stakeholders concerned by industrial hazards the global information, in order to anticipate catastrophic events and to plan the reactions minimizing the consequences of the occurrence of the hazards.

The risk management centre has a special focus on prevention, preparedness and mitigation and provides support in the early minutes of the crisis and beyond. To achieve its goal, the reference centre shall offer added value services, based on the integration of multiple sources of data related to hazardous materials used, configuration of the industrial site and surroundings, meteorological data, dispersion models, EO images for rapid mapping.

APS is currently developing, in the framework of the regional aerospace cluster « Skywin », a SEVESO risk management centre, using web-based technologies developed by Spacebel for the Service Support Environment of the ESA at Frascati, as well as for the FP7 RTD project GENESIS. During the implementation phase, the risk management centre will evolve towards a broker platform, exploring new business models emerging from Internet, in order to sell added-value services to a larger community and ensure the financial sustainability of the SEVESO risk management centre.