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Real time warning system for natural hazards

M. Bacher (1), D. Meinhard (2), H. Huebl (1), M. Kieslinger (2), M. Dobnig (2), A. Kogelnig (1)

(1) Institute of Mountain Risk Engineering, University of Natural Resources and Applied Life Sciences, Vienna, Austria (michael.bacher@boku.ac.at / Fax: +43 147654-4390 / Phone: +43 147654-4353) (2) Fluidtime Data Services GmbH, Vienna, Austria.

In the framework of an overall risk management project a real time warning and forecasting system for natural hazards is developed.

Monitoring and warning stations are located close to avalanche or debris flow prone areas. Data from gravity driven mass flows is recorded by different arrangements of sensors. Real-time data is provided to users by means of a Web-based expert system and personalised, mobile warning services. The nature of the natural hazard is limiting the time-spacing for data requests from remote stations. Also the type of event analyses is influencing the request interval: warning systems will ask for a real-time transfer of acquired data whereas forecasting systems can be as effective with lower transfer intervals.

Based on the services realised, the different user groups receive exactly the information they need: Detailed data for experts and status as well as selected historic information for local emergency forces. Furthermore, various communication channels (Web, Mobile, VoIP) allow for a broad and direct information flow between the stakeholders involved.