



Trans-boundary flood forecasting project in Austria, Slovenia, Hungary and Croatia

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A trans-boundary real time flood forecasting system on the Mur river is under implementation within the EU INTERREG IIIB CADSES program - Project „Flussraumagenda Alpenraum“. The Mur watershed extend over Austria (10000 km²), Slovenia (1400 km²), Hungary (1900 km²) and Croatia (500 km²). Although only Austria and Slovenia currently participate to this project, an extended solution including all 4 countries has been discussed and approved within the Mur commission, i.e., all 4 countries have accepted the Flood Forecasting structure presented below.

The challenge of the project is to have one common flood forecasting system working for all 4 countries, where exchange of real time information, modeling and dissemination can be performed rapidly and accurate working in a robust system, required in a real time forecasting system. Initially a flood forecasting decision support system is being prepared for Mur and its most important tributaries. The modeling system includes extended snow modeling in the Alps and flood plain modeling in south Austria with many hydroelectric structures on the rivers.

The Final real time system will operate from Graz, which automatically will receive data from the telemetric network in the 4 countries and from meteorological models. This System is defined as the International Mur Flood Forecasting Center. In a first stage data from the ALADIN model will be used. The modeling results using mete-

orological forecasts and some predefined scenarios should be made available on the internet within 15 to 20 minutes.

Furthermore, to include more flexibility in the flood forecasting and flood survey, each country will also manage its own flood forecasting center. The meteorological forecast as well as the flood forecasting system from the international Mur Flood Forecasting Center will be made available. In each national center it will then be possible to develop local scenarios adapted to the actual flood event characteristics.