



Developement of preliminary assesment tools to evaluate debris flow hazard.

Allen Bateman (1), Vicente Medina (1), Francesco Bregoli (1), Marcel Hürlimann (2), Guillaume Chevalier (1), Fabio Ciervo (3), and Mariolina Papa (3)

(1) GITS-UPC, EHMA, Barcelona, Spain (allen.bateman@upc.edu), (2) Terrain Department of the UPC, (3) Dipartimento di Ingegneria Civile di Salerno

In the framework of the IMPRINTS european research project (FP7), a toolbox for fast assessment of debris flow hazard has been developed. The aim of this toolbox is to implement different existing models inside a common package useful for a fast evaluation of potential hazard. The initiation and propagation of the debris flow is included. One of the requirements of the projects is to define different scenarios with different detail levels in data input. As an example of this, the results could be obtained just using topographical data or improve accuracy by adding geologic and hydrologic data.