



BASEMENT Users Meeting

Date: February 3, 2022
Location: physical attendance / online (mode depends on current situation, details in due time)
Organizers: Laboratory of Hydraulics, Hydrology and Glaciology (VAW), ETH Zurich
Institut für Bau und Umwelt, Eastern Switzerland University of Applied Sciences

Welcome and Introduction

09:15 - 09:25	Welcome address	Robert Boes, Davood Farshi
09:25 - 09:45	Current and future developments	David Vetsch
09:45 - 10:00	Coffee break	

Session 1 - River restoration and hydropower

10:00 - 10:30	Flow study on the Ambatolaona river (Madagascar) for tidal power generation	Nirilalaina Randriatefison
10:30 - 11:00	Einsatz von Basement bei der Grundwassermodellierung im Rahmen von Flussrevitalisierungsprojekten	Michael Ballmer
11:00 - 11:30	Suspended load modelling in revitalization projects: case study on Alpine Rhine river (Switzerland)	Benjamin Hohermuth, Andris Wyss, David Vetsch
11:30 - 11:45	Survey, questions and discussion	everyone
11:45 - 13:00	Lunch break	

Session 2 - Flood risk assessment and management

13:00 - 13:30	floodynamics.ch – Spatiotemporal dynamics of extreme flood events in Switzerland	Markus Mosimann
13:30 - 14:00	Event-based model calibration, design of hydraulic hazard mitigation measures using 2D simulations with bedload transport and validation with physical model: case study on Sesto River (Italy)	Nicola Groff, Silvia Simoni
14:00 - 14:30	Primary and secondary risks of landslide outburst floods	Yunjian Gao
14:30 - 14:45	Coffee break	
14:45 - 15:30	Gefahren- und Risikoanalyse entlang der Aare (Schweiz) unter einem sich verändernden Klima	Mattia Brughelli, Matthias Pfäffli
15:30 - 16:00	Pumping effect on water depth of a low gradient ditch during extreme rainfall events: case study on Porzen ditch, Etsch river (Italy)	Francesca Minute, Silvia Simoni

Session 3 - News from the BASEMENT team

16:00 - 16:30	BASEchange - new channel generator	Leonhard Seidelmann
16:30 - 17:00	Dam breach modelling	Matthew Halso
17:00 - 17:10	Summary	David Vetsch, Davood Farshi