

Grid- Technology and Integrated Disaster Risk Management

Walter J. Ammann

Swiss Federal Institute for Snow and Avalanche Research SLF, Davos, Switzerland
IDRC Davos

Shaoyu Wang

Harbin Institute of Technology HIT, China,
at present Visiting Professor at the Swiss Federal Institute for Snow and Avalanche
Research SLF, Davos, Switzerland

Walter J. Ammann



Why is Grid Technology

- **Different time scales: Disaster risk management includes all possible measures (prevention, preparedness, early warning, intervention, recovery)**
- **Different sources for disasters: all kinds of natural hazards, technological disasters, pandemics, terrorist attacks, etc.**
- **Different players: all kinds of agencies, public, NGOs**
- **Different levels: international, national, regional, community, private**
- **etc.**

Walter J. Ammann



Why is Grid Technology: exemples

- **Need for real-time observation and evaluation of huge data sources (e.g. meteo, precipitation)**
- **Need for real-time loss estimations (e.g. after an earthquake)**
- **Need for rapid access to huge data bases and link with others.**
- **Need for on-line communication at different levels during emergency phases**
- **Need for real-time follow-up of emergency situations**
- **Need for on-line access to decision support tools in emergency situations**

Walter J. Ammann

