Risk Management in the Province of Tyrol

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alpS – Who We Are

- R&D center based in Innsbruck/Austria
- Topics: natural hazard research and risk management
- Focus on climate change adaptation
- 85 employees at 3 locations – still growing

- 70 company partners in 15 countries
- 20 scientific partners in 6 countries
- 10 public authorities in 3 countries

- 30 projects running
- 25% in the field of applied risk management
- Risk management in the Province of Tyrol
▲ Making Cities Resilient

▲ Province of Tyrol (279 municipalities) and City of Lienz:
"Role model for community-based risk assessment, management and reduction"

▲ National launch of the campaign at the conference “Managing Alpine Future II“, 21-23 November 2011 in Innsbruck

▲ Today: focus on essential #3
- Prepare & share risk assessments.
- Risk assessment method used in the province of Tyrol
- Some results
Simple, effective and applicable in everyday life
▲ Risk Analysis

▲ Basic step for EVERY risk management

▲ Risk identification (essential risks!)

▲ Risk evaluation (probability and impact)

▲ Risk illustration (risk matrix, risk list, risk maps)

We do risk management for users, not for risk managers!
▲ Risk Control

▲ Reduce risks
▲ Set targets
▲ Technical control
▲ Organisational control
▲ Better communication!

Implement simple and effective control measures!
Risk Control

Basis: Risk Analysis and Assessment

Mitigation

Shifting Residual Risk

-------- Risk Control --------

Total Risk
Risk Monitoring

- Changes in processes
- Changes in potential damage
- Changes in probability
- Changes in impacts
- New risks -> back to step 1 (risk analysis)

keeps the risk-management process running!
Risk Monitoring

NO OPTION

Quelle: Andreas Götz, BWG
ORTIS – Risk Management Tool

ORTIS software tool
- Especially developed to support the risk management process in communities (and companies)
- Following a clearly structured risk management guideline

The ORTIS tool offers...
- A user-friendly interface
- A web-based platform (no separate software required)
- A structured risk management guideline
- Illustration and visualization elements
- Reporting and statistical functions
- A knowledge database for the administration of documents
ORTIS – Risk Management Tool

ORTIS Services

- Special methodology based on extensive research and practical experience gained from national and international risk management activities
- Workshops
- Cartographic processing
- Personal support throughout the process
- Latest scientific know-how through other activities within alpS and alpS network
What Do We Do in the Municipalities?
The Next Steps

Province of Tyrol

District

Municipality

Objective risk analysis

Objective/subjective risk analysis

Subjective risk analysis

RISK EXPERTS
Geologists, hydrologists, fire department, avalanche experts, technicians

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LOCAL EXPERTS
Local fire department, mayor, municipality employees, local infrastructure
Some Numbers

- **10** risk-management experts involved
  - Regional government
  - alpS
- **200** workshops in municipalities
- **180** municipalities completed
- **4800** risks identified
  - Average of 27 (range from 5 to 170)
  - More than 60% natural hazards
- **1.5** terabyte data generated (mostly GIS-maps)
- **170** days „on the road“
- **900** local experts involved
- **50** risk experts involved
▲ Application Examples

▲ Province of Tyrol (279 communities)
▲ “Risk management without borders“ in cooperation with the German Federal Office for Civil Protection and Disaster Assistance
▲ Different cities and municipalities in other parts of Austria
▲ Risk management workshops in
  – Germany
  – Switzerland
  – Italy (Province Alto Adige)
  – Indonesia
  – China
  – Algeria
  – Argentina

▲ National risk analysis Austria
Thank you for your attention!

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