

Disaster management

Preventing Environmental Catastrophes by Spatial Planning and Land Management

FIG WG 8.4

- ∅ intercommissional WG of FIG
- ∅ established in August 2003
- ∅ several meetings at WWs, seminars, congresses
- ∅ changing members

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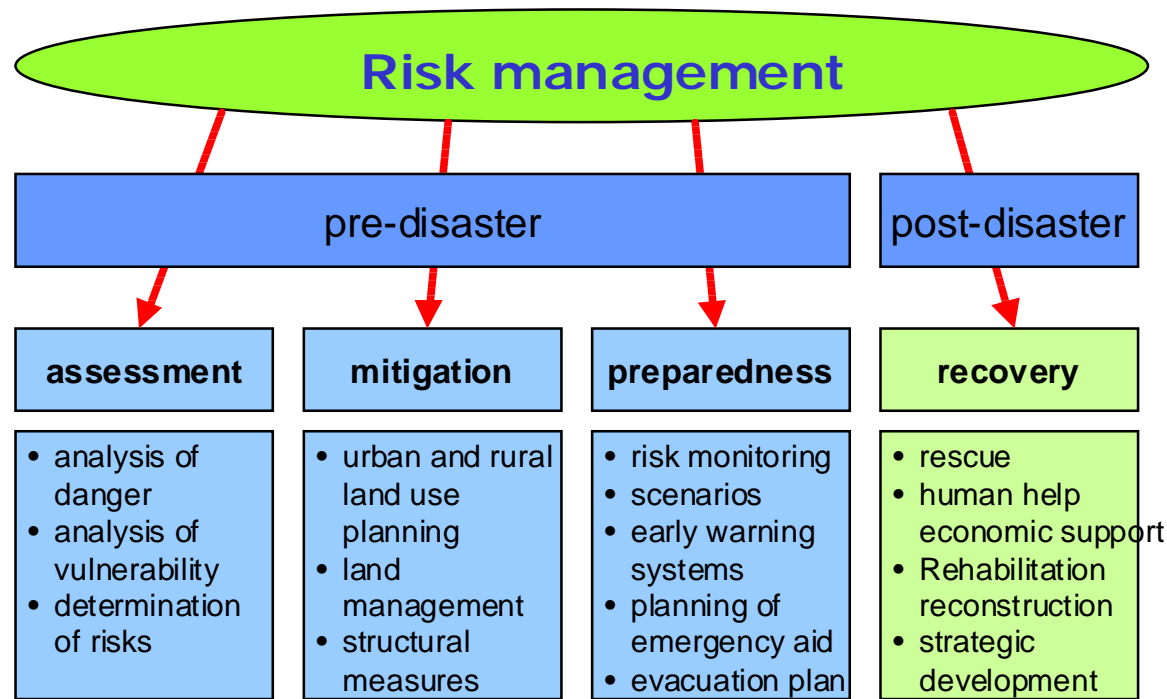
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Regional and international co-operation in research, data-transfer and data-infrastructure



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Risk assessment



Zoning of disaster prone areas according to the magnitude of risk:

- Simulation of flood scenarios
- 3 dimensional landscape model
- Land use
- Population density
- Infrastructure
- Real estate value



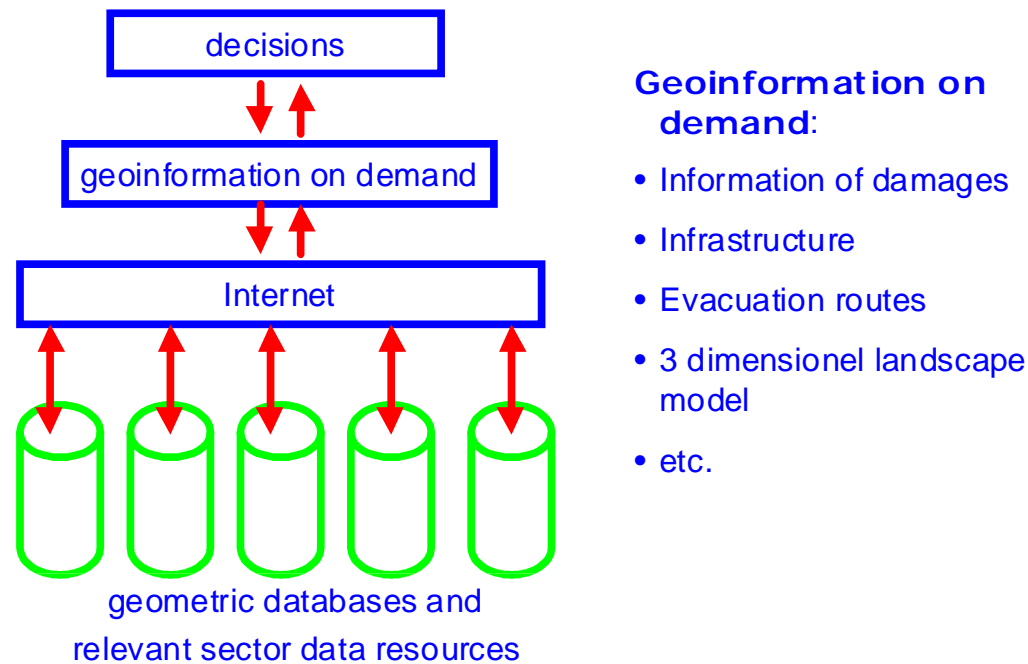
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Recovery of disasters and emergency management



Geoinformation on demand:

- Information of damages
- Infrastructure
- Evacuation routes
- 3 dimensional landscape model
- etc.



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Requirements on data and data infrastructure

- Cross border availability of actual relevant spatial information
- Accuracy and completeness of geoinformations
- Common and uniform database
- Interoperability and congruent classification of data sets
- Reliability of data infrastructure
- Appointment of a co-ordinating organisation to serve as primary portal of access to national and international networks



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Commission 7 Annual Meeting 2004
Clermont-Ferrand/France

G. Schennach, Austria

Austrian Society for
Surveying and Geoinformation



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Conclusions

- Information based decisions are a pre-requisite for the formulation of successful assessment, mitigation, preparedness and recovery strategies concerning risk management.
- Setting up successful risk information infrastructure networks is one of the greatest challenges
- Risk management is a new purpose of cadastral databases and an important application of land administration
- The surveyors of the 21st century have great responsibilities both socially and professionally to involve themselves in risk management.



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