

swarm

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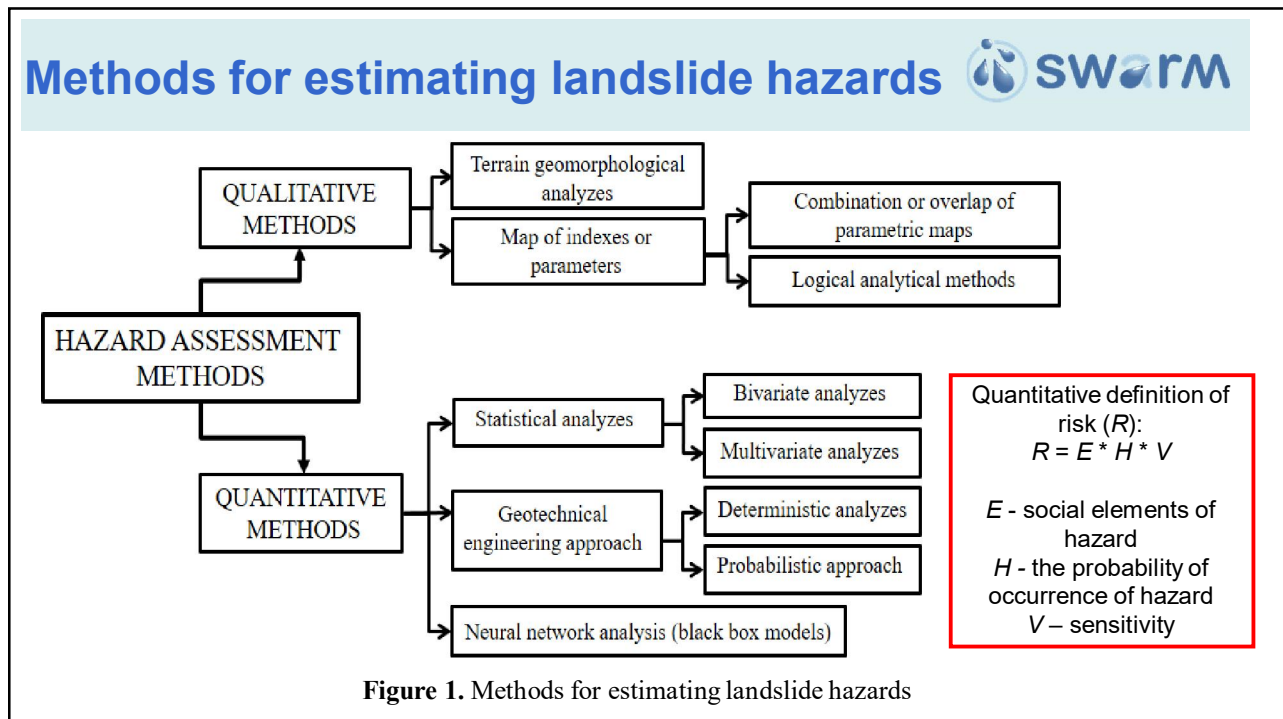
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### The fundamentals of Risk Assessments on the geohazard consequences

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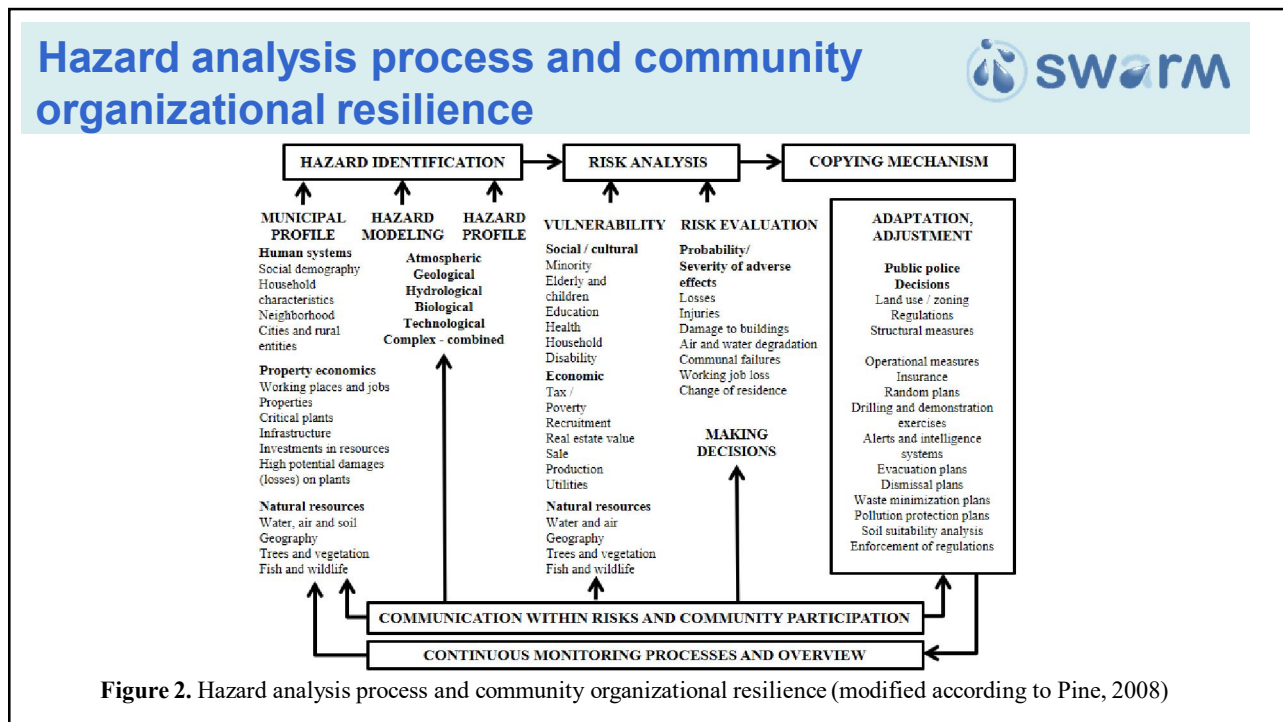


Figure 2. Hazard analysis process and community organizational resilience (modified according to Pine, 2008)

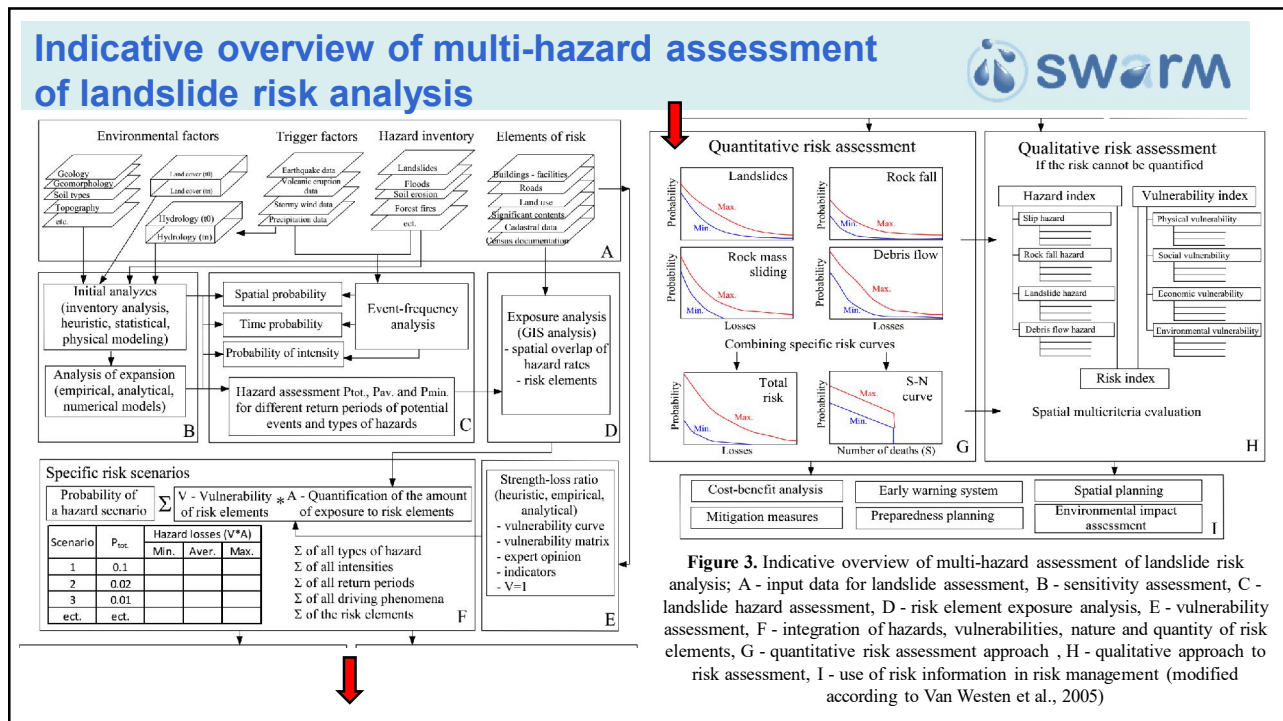


Figure 3. Indicative overview of multi-hazard assessment of landslide risk resources analysis; A - input data for landslide assessment, B - sensitivity assessment, C - landslide hazard assessment, D - risk element exposure analysis, E - vulnerability assessment, F - integration of hazards, vulnerabilities, nature and quantity of risk elements, G - quantitative risk assessment approach, H - qualitative approach to risk assessment, I - use of risk information in risk management (modified according to Van Westen et al., 2005)

## Conclusions



For **adequate analysis of landslide hazard** it is necessary to conduct:

- a good geotechnical and engineering geological assessment,
- geomorphological and geographical analysis,
- political and economic perspective of the area development,
- economic and social circumstances in the analyzed area and
- know the factors influencing spatial and temporal variation of the threatening process.

The **accuracy of landslide hazard estimates** depends:

- on the quality and quantity of available data,
- the time spent collecting and processing data,
- conducting the necessary analyzes,
- the financial resources needed to investigate the elements needed to obtain input parameters.

As a result of the **landslide hazard assessment**, a landslide hazard map is made. It shows the spatial distribution of different degrees of landslide hazard.

## Questions or comments?



**Thanks for your attention and patience!**

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