

Danger and risk caused by natural phenomenon

- Danger or threat: they refer to the probability of potentially harmful phenomenon occurrence in a period of time. Danger potential is measured with intensity and return time.
- Exposure: it is the number of people, possessions, wealth and infrastructure susceptible of being damaged.
- Vulnerability: it refers to the systems exposed proclivity (human settlements, infrastructure) of being damaged by a disturbing phenomenon effect.
- Risk: it concerns with the probability of a danger to become a disaster. Possibility combination that an event occurs and its negative consequences. Factors that composed it are threat and vulnerability.

$$\text{Risk} = \text{danger or threat} \times \text{exposure} \times \text{vulnerability}$$

A Natural Phenomenon Dangers and Risks Atlas is an instrument that allows establishing preventive strategies that reduce and mitigate risks and losses.

This instrument helps to inform population about latent threats; it also generates a regulatory scheme to responsible decision-making in planning and human settlements development.

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Atlas has three main approaches:

Informative: being an easy comprehensive tool about dangers and risks to which population is exposed creating a basic scheme of global understanding.

Formative: encouraging population safety culture to allow its co-responsible participation in taking attitudes of prevention and committed action, as first affected.

Regulatory: being a strategic planning instrument to achieve the best comprehensive development of government, municipality or community, by setting legal actions to allow danger, risk and losses mitigation.

