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**Institute for Environment
and Human Security**

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Villagrán de León

- *Basic notions.*
- *Conceptual Framework.*
- *Integrating the components.*

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– Bridging the Gap***



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*A disaster takes place when
three factors are combined:*

- 1 The presence of large events, either of natural or social origin.**
- 2 A way of development which has not been adapted to the presence of such events, in which vulnerabilities are “constructed” due to poverty, lack of norms, lack of experience, etc.**
- 3 Deficiencies in preparedness to reduce the impacts of such events, as well as to respond efficiently and in an opportune manner should the event take place and to cope with its consequences (impacts and effects).**

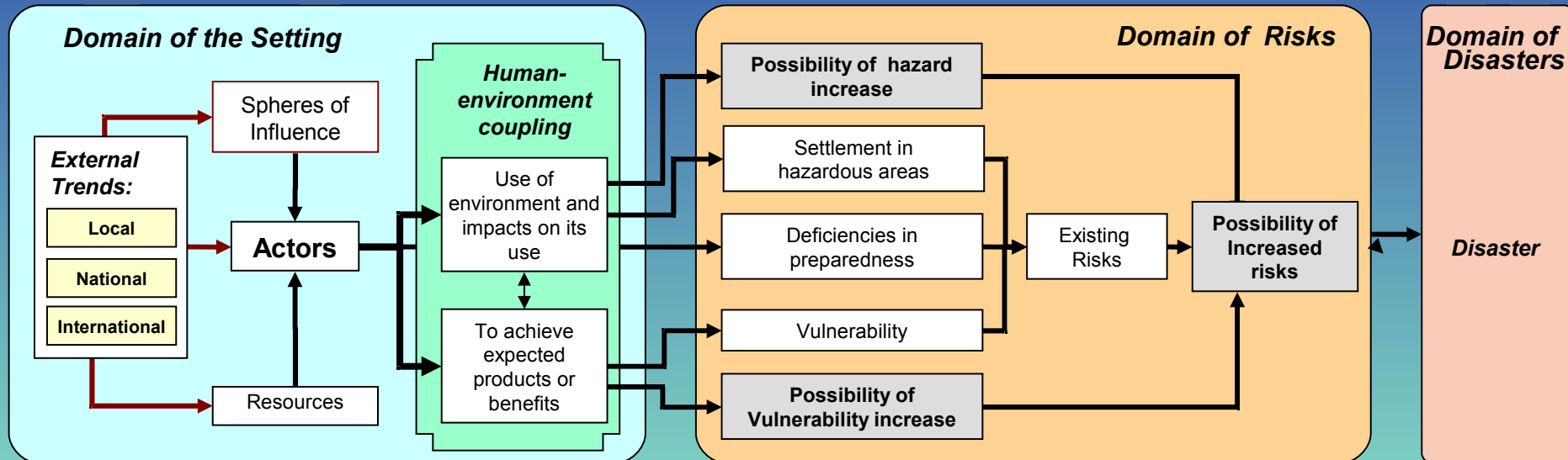


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GIRO framework: integral risk management



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Some definitions regarding risks:

**MAJOR PROBLEM: LACK OF
CONSENSUS ON TERMINOLOGY
AND DEFINITIONS DUE TO
NOVELTY OF TOPIC**

Risk = Hazard * Vulnerability [La Red, Latin America]

Risk = Hazard * Exposition * Vulnerability [Europe]

Risk = Hazard * Vulnerability [ISDR]

Coping Capacity

**Risk = Hazard * Vulnerability * Deficiencies in Preparedness
[CIMDEN]**

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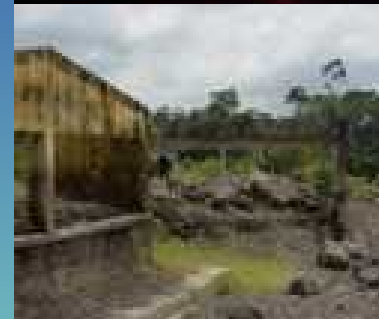
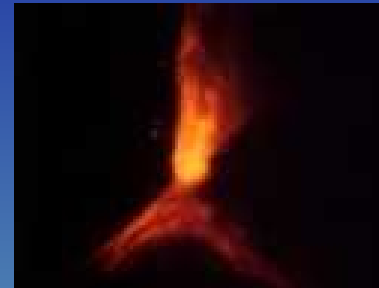
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Hazard assessment:

**Currently, hazards are
assessed in two
ways:**

- **Probabilistic approach**
- **Deterministic approach**



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Vulnerability assessment

- **Still in its infancy.**
- **Vulnerabilities depend on the type of hazard.**
- **Vulnerabilities can be classified in various ways. People talk about “components” or “dimensions” of V.**
- **Different connotations from level to level (local, province, municipal, national).**



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Deficiencies in Preparedness:

A set of conditions which inhibits a society or a community from managing the response, rehabilitation, and recovery efforts in a timely and efficient manner; and an efficient transfer of risks.

EXAMPLES:

Lack of Early Warning Systems

Lack of Emergency of Disaster Management Committees (organized structures at all levels).

Lack of Emergency Operation Centers and their respective planning.

Lack of Risk transfer mechanisms including insurance, catastrophe bonds, or national emergency funds.

Weak Inter-institutional coordination structures to deal with response and recovery

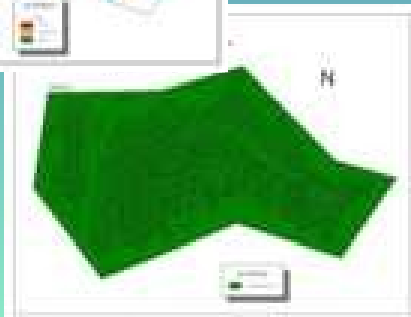
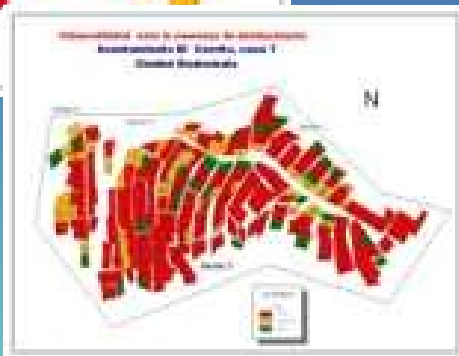
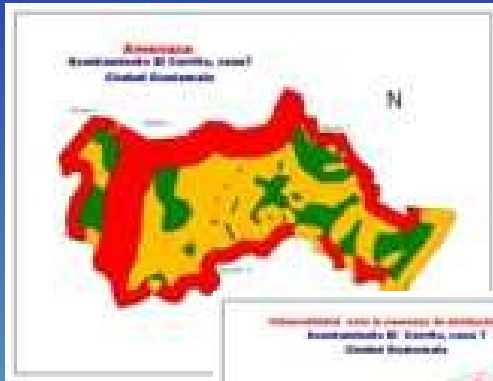
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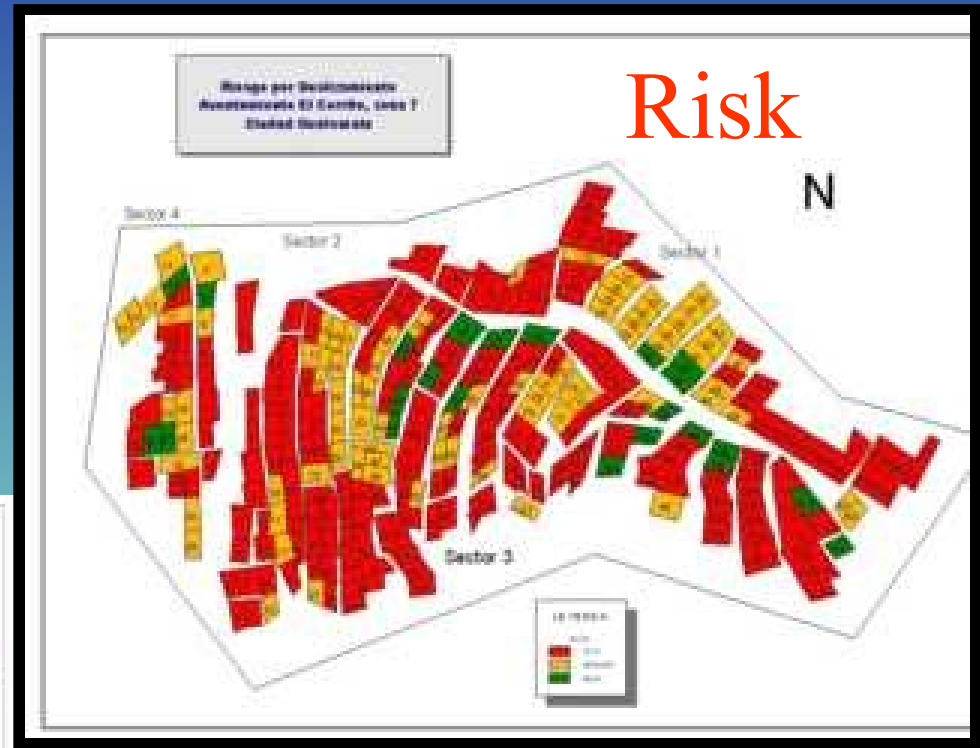
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Hazards



Integrating the factors:

Risk



Vulnerabilities

*Deficiencies in
preparedness*

Introducing information concerning risks into portals for disaster-risk management

Development of methods to evaluate:

- *Hazards,*
- *Vulnerabilities,*
- *Deficiencies in preparedness.*

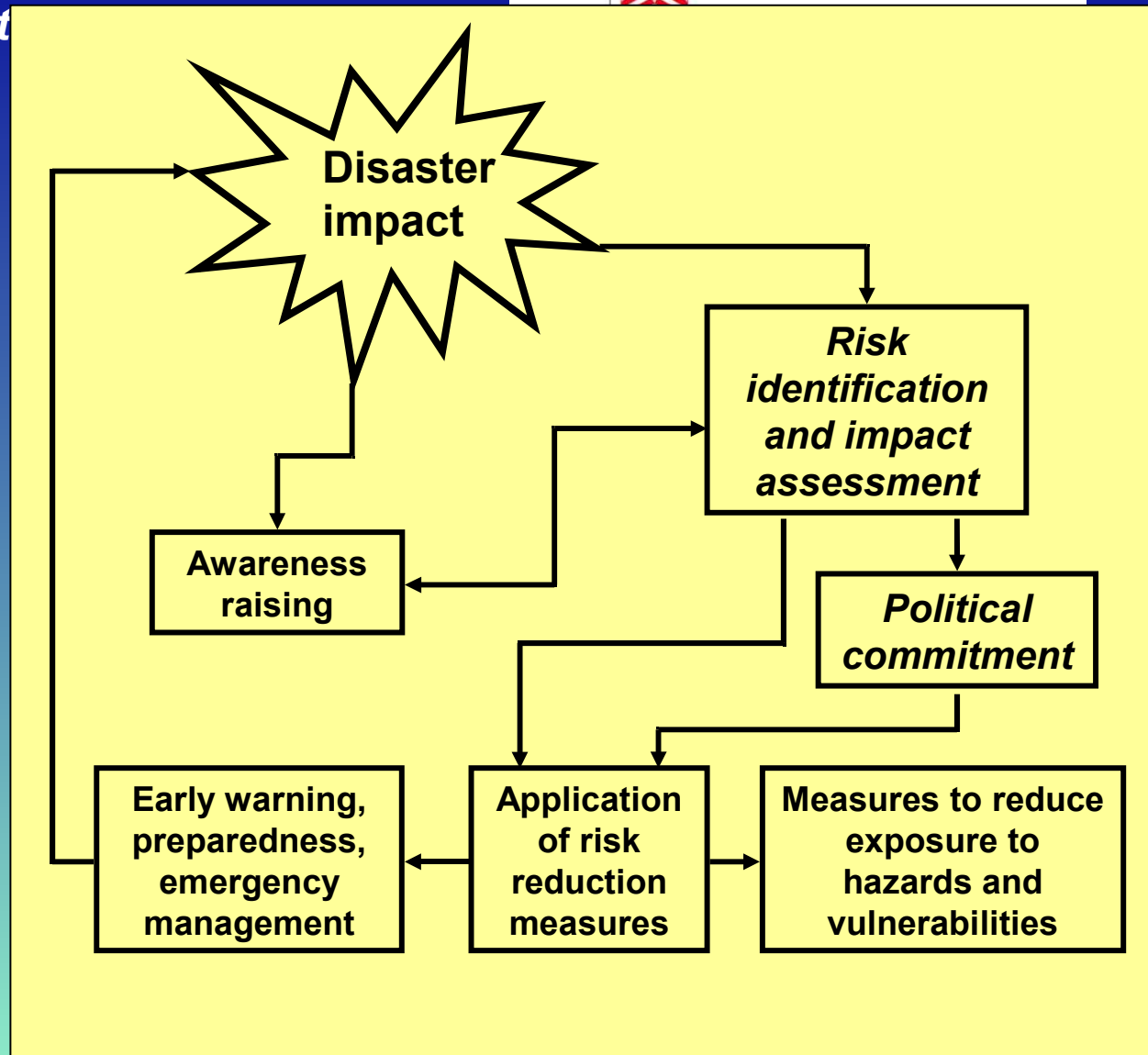
Level at which risks are assessed: individual element, local, community, municipal, provincial, national.

Facts to consider:

- *Different types of contents: Documents, tables, maps, charts, figures, databases.*
- *Type of End-user*
- *Expected use of the information (purpose)*

Dealing with Risks:

ISDR proposes the following flowchart to deal with risks.



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**MUCHAS
GRACIAS**

