



SAGE ON EARTH CONSULTING  
UNDERSTANDING RISK AND RESILIENT SOLUTIONS

# Relevance of Understanding Volcanic Risk: From Sendai Framework Implementation to Planning My Life In Guatemala

University of Geneva

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**What Do I Need to Know  
about Fuego?**



# Who Needs to Know What?

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- As a resident living “close” to Fuego? With respiratory condition? With mobility challenges?
- As a tourist with a young child?
- As a farmer or small investor in agricultural land?
- As a scientist at INSIVUMEH?
- As an emergency manager in CONRED?
- As an urban planner in Sacatepequez and Squintla Departments?
- As the Ministry of Finance with national insurance plans and insurance industry?
- As Ministry of Transportation? Agriculture? Tourism?
- As a major investors in tourist and agricultural sector?
- As the Media?
- As a Parliamentarian?



# Sendai Framework for Disaster Risk Reduction 2015 - 2030



## Risk informed DRR Measures

- Economic
- Structural
- Legal
- Social
- Health
- Cultural
- Educational
- Environmental
- Technological
- Political

From UNISDR



# Mirroring DRR governance system

## DRR Governance System

Sectoral and multi-sectoral policies with interactions and communications among sectors

Inclusive of whole of society as actors

With technical and administrative capacities

With financial resources for investing in DRR and risk financing

With monitoring, evaluation, and learning from implementation

With strategies and plans for continuous enhancement of DRR practice



## Understanding Risk System

Sectoral and multi-sectoral assessments with interactions and communications among sectors

Include vulnerabilities of the whole of society

With technical and administrative capacities to use risk information

With financial resources to enhance risk information over time

With monitoring, evaluation, and learning

With strategies and plans for continuous enhancement of risk assessments and use

# What is a successful risk assessment?

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A successful risk assessment provides the intended users with

- (i) information about the risk that they are exposed to with clear understanding of its characteristics and complexities; and
- (ii) empowers them in their decisions, functions, and operations to manage that risk

This means the **outputs** of the risk assessment are accessible, understandable, usable, and relevant to the users

And the **process** of conducting risk assessment creates the ownership, understanding and trust for users

From UNISDR Words into Action Guidelines on National Disaster Risk Assessment, 2017

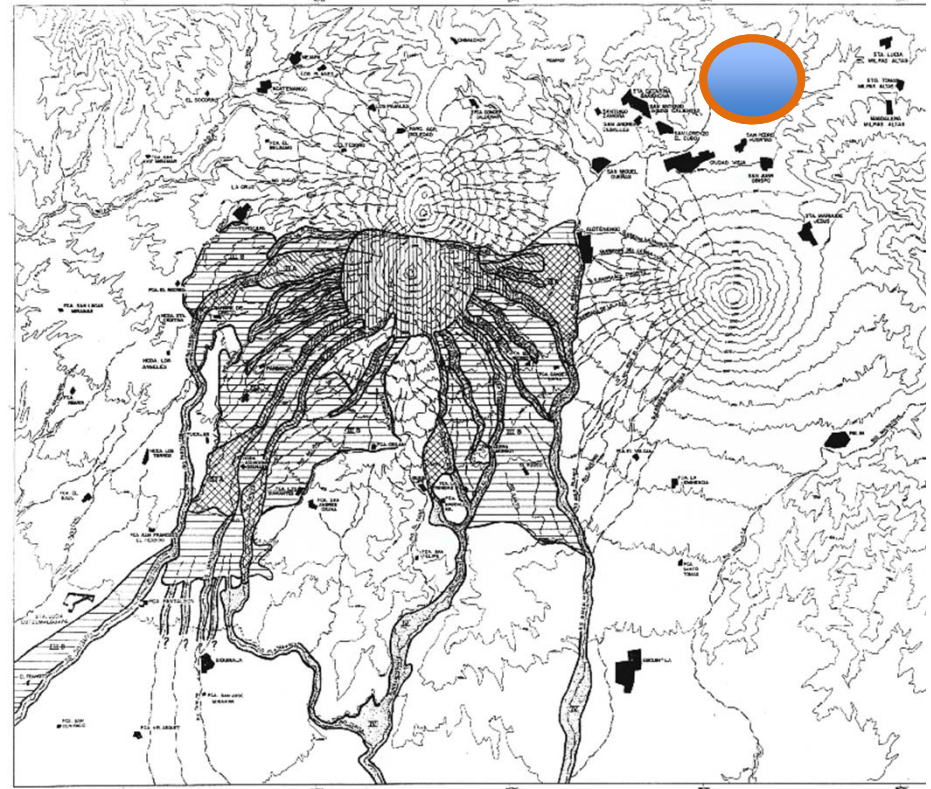
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# Concluding Messages

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- Meaningful engagement with national/local users, including identifying and connecting to policy making process, is critical to ensure hazard and risk information will be used in DRR





# Concluding Points

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- National and local scientific bodies play a significant role in DRR. Global efforts should include components to support national and local entities with:
  - Understanding volcanic hazard and risk information
  - Understanding application of hazard/exposure/risk information in various DRR efforts
  - Facilitating science-policy interface



**Thanks!**

