



**Asia-Pacific  
Economic Cooperation**

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**2025/SOM3/EPWG/SDMOF/016**

Agenda Item: S5.2.2

## **Harnessing Technology for Effective Disaster Leadership**

Purpose: Information  
Submitted by: Mexico



**18th Senior Disaster Management  
Officials' Forum  
Incheon, Korea  
31 July 2025**

# Harnessing Technology for Effective Disaster Leadership

SDMOF 18  
Session 5

Economy of  
Mexico

# Contents

- Use of technology
- National Atlas
- Link with civil society and the communities

- Technology is key for strengthening leadership in disaster risk management by facilitating more accurate detection, effective communication, and coordination in crisis.
- Our economy, with high exposure to different natural hazards, effective leadership is essential to protect population and minimize damage caused by these phenomena.
- Technological innovations allows us to anticipate risks, communicate promptly, and mobilize resources efficiently, thus strengthening the national capacity to respond to emergencies.
- We promote the use of geospatial platforms, such as the National Risk Atlases, which provide detailed information of the most vulnerable areas, facilitating planning and decision-making based on reliable and up-to-date data.

- Real-time monitoring systems have become essential tools to maintaining awareness and to react quickly to any hazard.
- Incorporation of innovations such as the use of mobile applications for community notification, which allow the population to be informed immediately and directly, encouraging active participation and a more coordinated response
- Use of drone systems for post-disaster damage assessment, which speeds up the collection of information on the ground and optimizes rescue and recovery efforts.

## RISK ATLAS:

What do you know about where you live?

### What are they?

Information systems on disturbing phenomena to which a community and its environment is exposed



**Consult them and make informed decisions.**  
**Review and discharge information layers at:**

**Centro Nacional de Prevención de Desastres**  
[www.gob.mx/cenapred](http://www.gob.mx/cenapred)  
**Atlas Nacional de Riesgos**  
[www.atlasnacionalderiesgos.gob.mx](http://www.atlasnacionalderiesgos.gob.mx)

### Who prepares them?

The law mandates Civil Protection authorities at all levels of government, to develop and update their Risk Atlas

### Some events that are included to this Atlas are:



#### Geological

- Earthquakes
- Volcanic eruptions
- Tsunamis
- Slope instability
- Land depression



#### Hydrometeorologic

- Tropical storms
- Extreme rainfall
- Flooding
- Snow Storm
- Hail



#### Chemical-Technological

- Fires
- Explosions
- Toxic leaks
- Radiation
- Spills



#### Health-Environmental

- Epidemics
- Pests
- Air, water and soil pollution



#### Socio-Organizational

- Traffic accidents
- Suspended vital services
- People massive concentrations or movements

### What is the structure and contents?

It is a computer platform supported on:  
Geographic information systems and databases

◆ **Disturbing events risks maps**

◆ **Susceptibility maps**

◆ **Exposed property inventories**

◆ **Vulnerability inventory**

◆ **Risk maps**

◆ **Risk scenarios**

Source: Centro Nacional de Prevención de Desastres = National Center for Prevention of Disaster

Translation: Guadalupe Meléndez de Escalante. Revision: Angélica Sánchez de la Torre



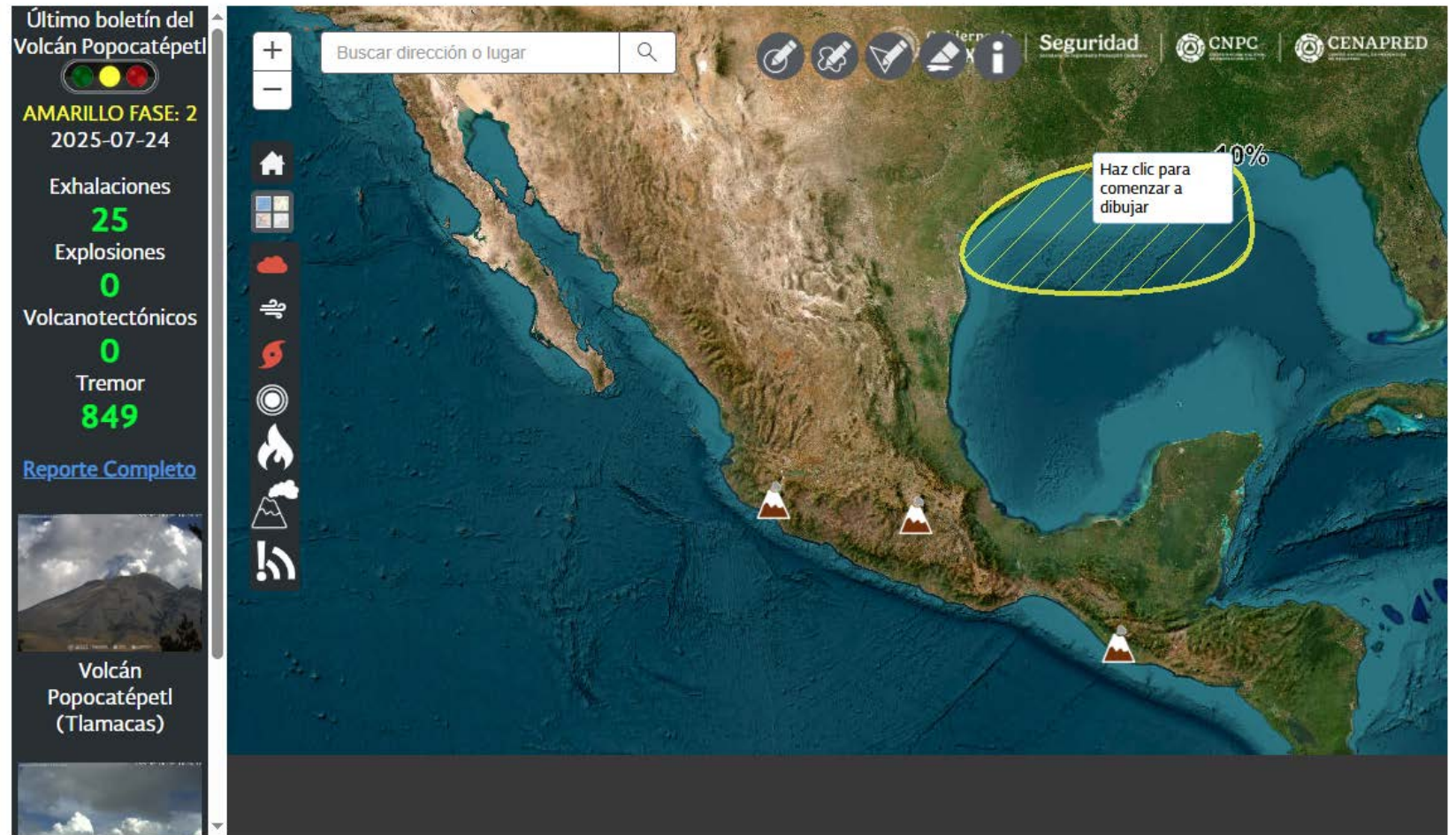
**GOBIERNO DE MÉXICO**

**SEGURIDAD**  
SECRETARÍA DE SEGURIDAD Y PROTECCIÓN CIUDADANA

**CNPC**  
COORDINACIÓN NACIONAL DE PROTECCIÓN CIVIL

**CENAPRED**  
CENTRO NACIONAL DE PREVENCIÓN DE DESASTRES





# National Atlas of Vulnerability to Climate Change

**MEDIO AMBIENTE**  
SECRETARÍA DE MEDIO AMBIENTE Y RECURSOS NATURALES

**INECC**  
INSTITUTO NACIONAL DE ECOLOGÍA Y CAMBIO CLIMÁTICO

**ATLAS NACIONAL DE VULNERABILIDAD AL CAMBIO CLIMÁTICO**  
México

**Mapa** [Introducción al ANV](#)

|                                                                                                              |                                                                                                                        |                                                                                                                  |                                                                                                           |                                                                                              |                                                                                                 |                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
|  Categoría<br>Població... ▼ |  Tipo de vulne...<br>Vulnerabili... ▼ |  Componente<br>Vulnerabilidad ▼ |  Escenario<br>Actual ▼ |  Estado ▼ |  Municipio ▼ |  Mapa base<br>OSM Standard ▼ |
| Categorías                                                                                                   | Tipos de vulnerabilidad                                                                                                | Componentes vulnerabilidad                                                                                       | Escenarios de vulnerabilidad                                                                              | Estados                                                                                      | Municipios                                                                                      | Mapa base                                                                                                       |

<https://atlasvulnerabilidad.inecc.gob.mx/atlas/mapa>

# Link with civil society and the communities

Our economy is trying to strengthen our efforts with civil society to have a clear and effective communication with our communities

<https://www.openstreetmap.org/#map=5/23.94/-102.58>

# Thank you

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