

# EARLY WARNING SYSTEMS

## Actions that could save lives

Mexican geographical location is subject to a variety of disruptive natural phenomena that have caused major disasters. In order to protect the population and mitigate the damage caused by these phenomena, it was created the early warning systems.

### Their four components

**1 Knowledge and risks identification** associated with disturbing phenomena to take preventive measures.



**4 Response or contingency plans** for preparing drills for effective response over disturbing phenomena impacts.



**2 Measuring and Monitoring System** of the disturbing phenomena to forecast or issue warnings through instruments used and telecommunication networks are used for data acquisition.



**3 Dissemination of public alerts** based on clear and accurate information to the population. It requires preset and operated protocols by the authorities.



### Learn more

National Center for Disaster Prevention  
[www.gob.mx/cenapred](http://www.gob.mx/cenapred)

Source:  
National Center for Disaster Prevention

A successful early warning system requires the coordinated participation of all sectors.



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# Services and Early Warning Systems in Mexico

Provide information and allow people to prepare himself for effective response and risk reduction.

With the aim of mitigate the impact of disruptive natural phenomena in Mexico, some services and warning systems have been implemented.

System	Phenomena	Information	Coverage	Start date	Warning time
Mexican National Seismological Service	Earthquake	<a href="http://www.ssn.unam.mx">www.ssn.unam.mx</a>	National	1910	Upon the occurrence of and event
Mexican Earthquake Warning System	Earthquake	<a href="http://www.cires.org.mx">www.cires.org.mx</a>	Mexico City, Chilpancingo, Acapulco and Morelia	1991	Seconds before the earthquake but depends the epicenter location
Popocatepetl Volcano Monitoring System	Volcanic Activity	<a href="http://www.gob.mx/cenapred">www.gob.mx/cenapred</a>	Near the volcano	1994	Warning by event
Early Warning System Tropical Cyclones (SIAT-CT)	Tropical Cyclone	<a href="http://smn.cna.gob.mx">smn.cna.gob.mx</a> <a href="http://www.gob.mx/cenapred">www.gob.mx/cenapred</a>	National	2000	72 h before the event
National Tsunami Warning System	Tsunami	<a href="http://www.bit.ly/1w3MNJa">www.bit.ly/1w3MNJa</a>	Pacific Coast	2013	Minutes before for the local tsunami, and hours before for the distant tsunami
Fires Early Warning System	Forest Fire	<a href="http://www.gob.mx/conabio">www.gob.mx/conabio</a>	National	1999	Warning by event
National Meteorological Service	Meteorological	<a href="http://smn.cna.gob.mx">smn.cna.gob.mx</a>	National	1877	Warning by event and forecasting

The organization and preparedness plans also help to cope with contingencies that occur in many communities.

The disruptive natural phenomena cannot be avoided but it is possible to decrease their impact with early warnings.



**Keep in mind that a better understanding of the risks and attend the early warning messages can be a big difference for people and communities at risk**