

**Standardizing
seismometer data usage
will contribute to
sustainable development of
emerging or developing nations**



Philippines (1990)



Indonesia (2004)



China (2008)



Chile (2011)

Source : Headquarters for Earthquake Research Promotion of Japan



Japan Bosai Platform was established in 2014. For sustainable development globally, it is undertaking activities to expand disaster risk reduction technologies overseas.

This proposal is a joint proposal made by 3 Japan Bosai Platform members.

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Japan Bosai Platform

<https://www.bosai-jp.org/>

IMV CORPORATION

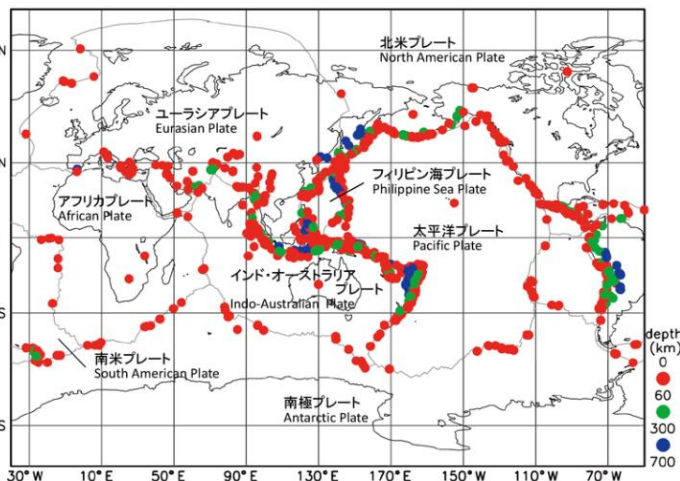
<https://www.imv.co.jp/e/>

Challenge Co., Ltd.

<http://challengego.co.jp/english.html>

MEISEI ELECTRIC CO., LTD.

<http://www.meisei.co.jp/english/>



▲Seismicity of the World

(2009-18, Magnitude 6+)

Source : JMA-prepared material based on USGS data

Using Seismometer Data in Cities

**For disaster risk reduction
in cities**

- A proposal from Japan -



Using seismometer data in cities (Example)

Seismometer application classification (Provisional)

- (A)** Microtremor or Resource exploration, etc.
- (B)** Earthquake intensity or Strong motion observation network, etc.
- (C)** Health monitoring, etc.
- (D)** Strong motion detection, etc.
- (E)** Emergency shutdown -stoppage, etc.
- (F)** Seismic alarm, etc.
- (L)** Long period seismometer

High-rise apartments

- (B)** Seismic-resistant design
- (C)** Building health monitoring
- (E)** Emergency stoppage of elevators
- (L)** Long period ground motion control

Schools

- (B)** Seismic-resistant design
- (F)** Evacuation alarm

City gas

- (B)** Renewal plan
- (D)** Emergency inspection
- (E)** Emergency gas stoppage

Hazard areas

- (B)** Regulation of land-use
- (D)** Emergency inspection

Factories

- (C)** Business Continuity Plan
- (E)** Emergency stoppage

Laboratories

- (A)** Geological analysis
- (B)** Seismic analysis

Public offices

- (B)** Disaster prevention plan
- (D)** Emergency system
- (F)** Evacuation alarm

Trains

- (B)** Regulation of operations
- (C)** Health monitoring
- (D)** Emergency inspection
- (E)** Emergency stoppage of trains

Electric power

- (B)** Facility plan
- (D)** Emergency inspection
- (E)** Emergency stoppage

Shopping centers

- (E)** Emergency stoppage of elevators
- (F)** Evacuation alarm

Roads

- (C)** Health monitoring
- (D)** Emergency inspection

Housings

- (B)** Seismic-resistant design

Coasts

- (E)** Emergency shutdown of sluice gates
- (F)** Evacuation alarm



Scene of seismic disaster in cities

Original picture : Cabinet Office, Japan