

Disasters in Japan and the East Japan Great Earthquake . - an Overview of 3.11 -



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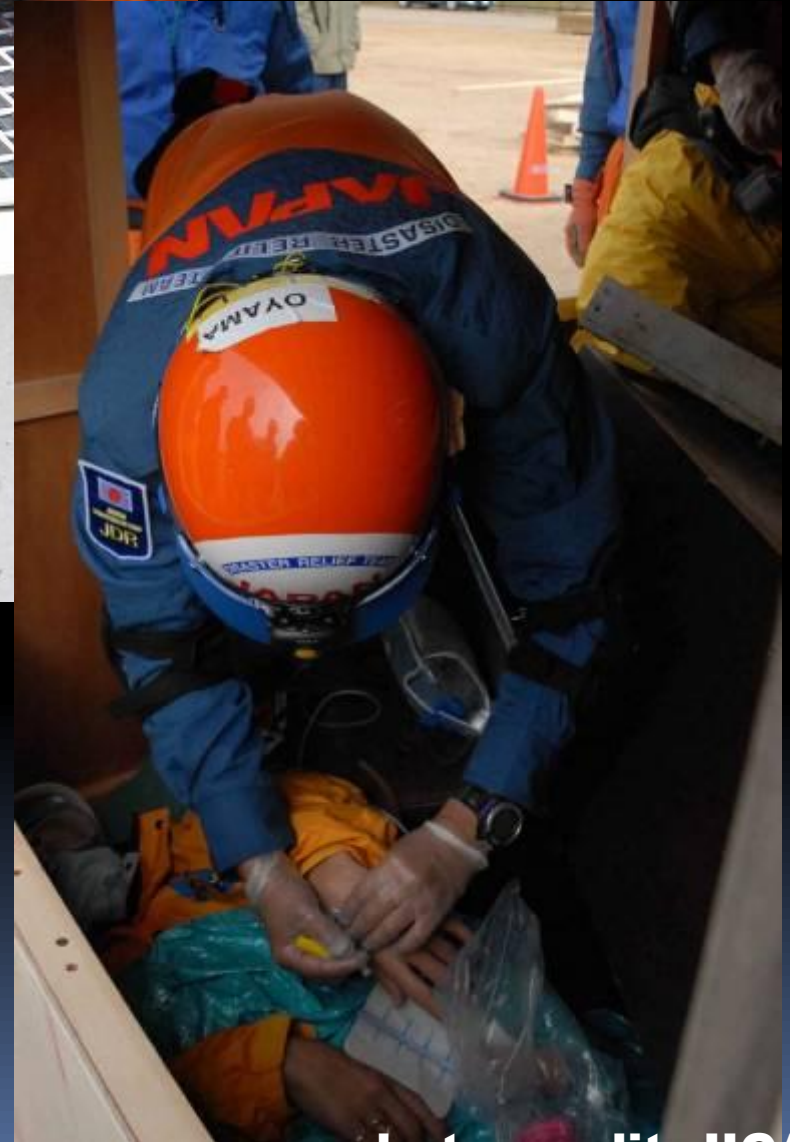
Tokai University, School of Health Science

Member of : Japan Disaster Relief Team (JDR)

JDR Medical & JDR Rescue Medical



photo credit: JICA



JDR Rescue Medical

photo credit: JICA

Activity history

1992-2002 Emergency Nurse, Flight Nurse (Tokai UNV Hospital
Emergency Dept.)

2004 Niigata Chuetu Earthquake (Japan)

2008 China Sichuan Earthquake (JDR Medical)

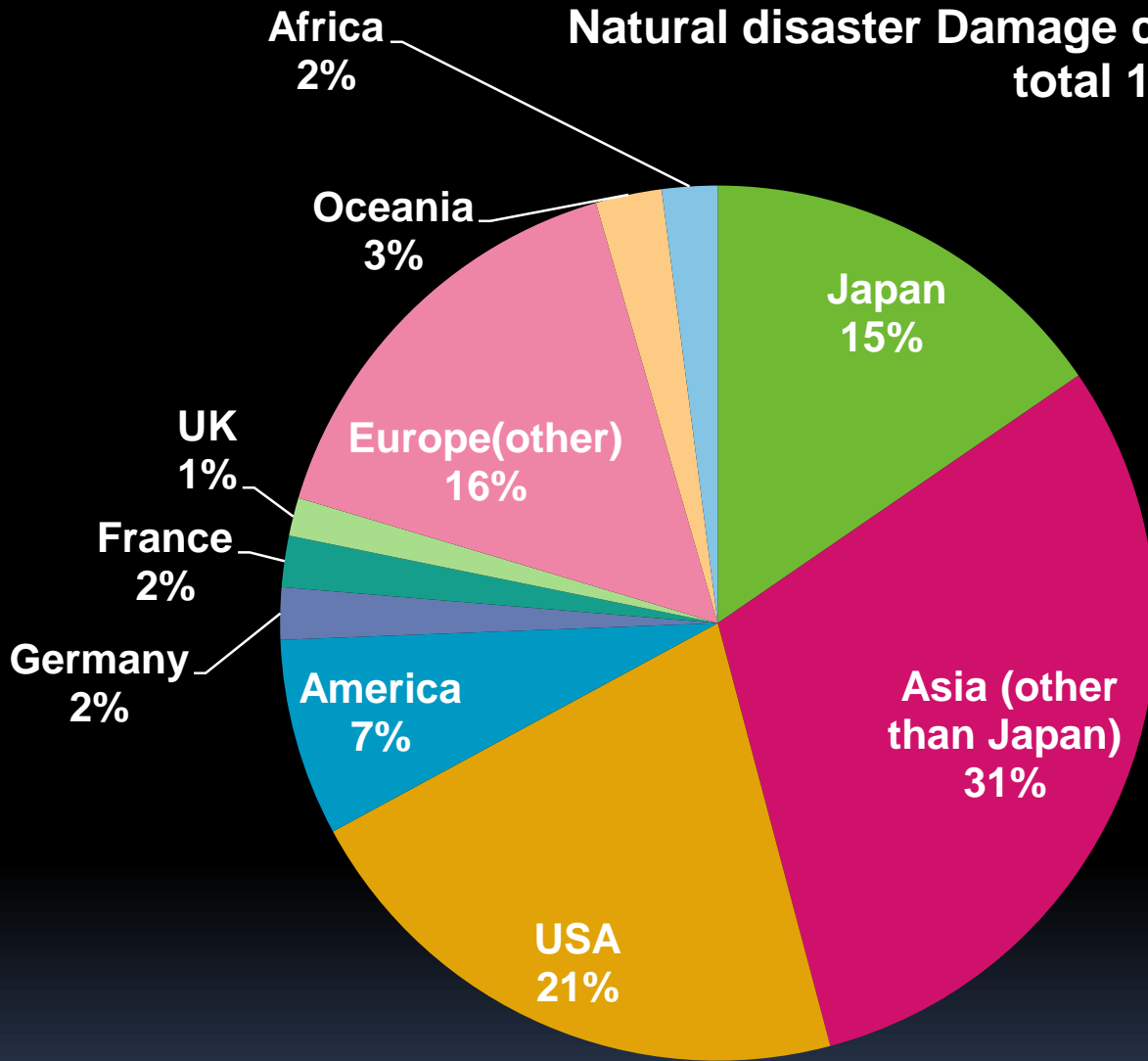
2009 Indonesia Padang Earthquake (JDR Rescue)

2011 New Zealand Earthquake(JDR Rescue)



photo credit: JICA

**Natural disaster Damage cost (1970 -2004)
total 1577billion USD**



Area of Japan is only 0.25% of the world!

Frightening things in Japan

Earthquake

Thunder

Fire

Fathers

地震・雷・火事・親父

Frightening things in Japan

Earthquake 

Thunder

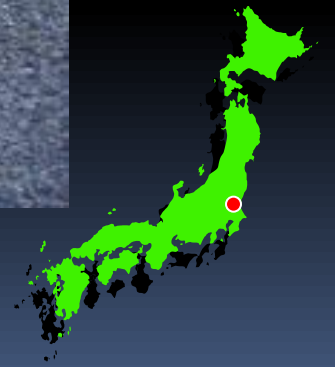
Fire

Typhoon

地震・雷・火事・親父

The Kaname stone.

要石



the Kashima Shrine.



Japan has accumulated knowledge and has developed technology to reduce earthquake damage.

Why do many earthquakes occur in Japan ?



Japan is surrounded by active faults.

-Active fault

Japan has accumulated knowledge and has developed technology to reduce earthquake damage.

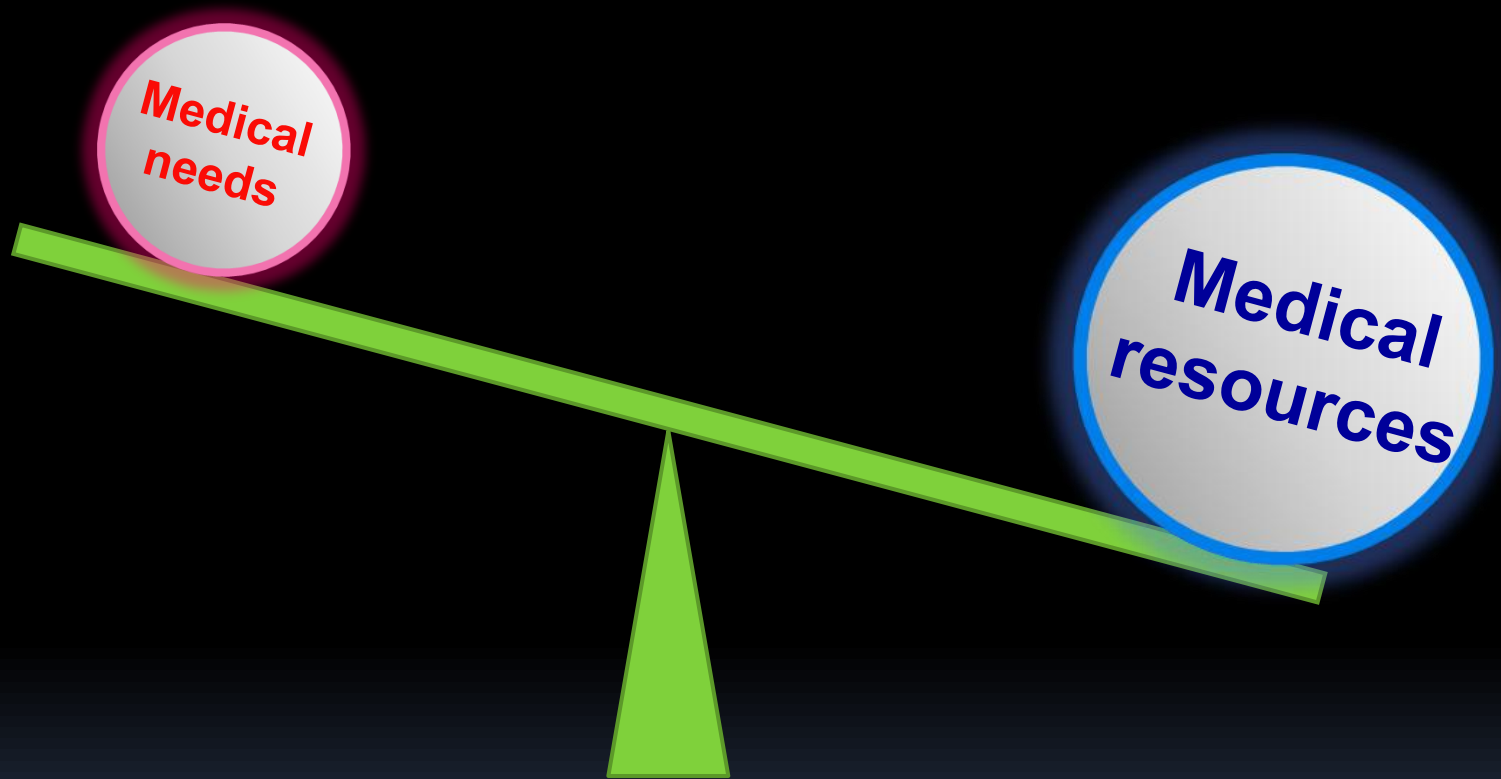
We have been plagued with earthquakes since ancient times.

The Great Hanshin-Awaji Earthquake

**January 17, 1995,
the largest
earthquake
disaster occurred
in Japan after
World War II.
6,437 people were
killed.**

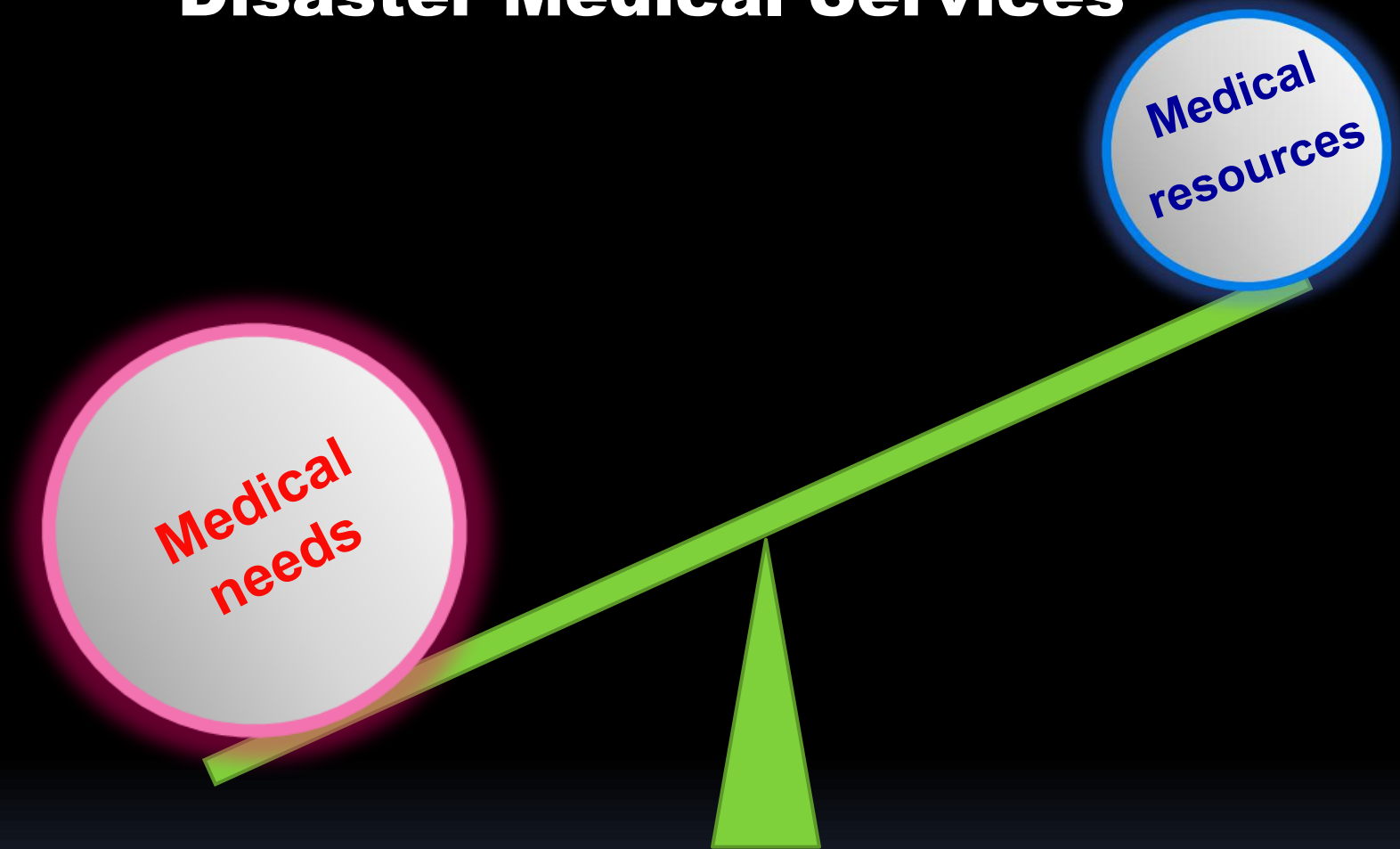


Normal (Emergency Medical Services)



The best for a victim

Disaster Medical Services



The best for the greatest number of victims.

JAPAN Disaster Medical Assistance Team

*Enhancement of emergency medical
care of 48 hours from disaster*

= Preventable Trauma Death =

Japan DMAT 703 Team

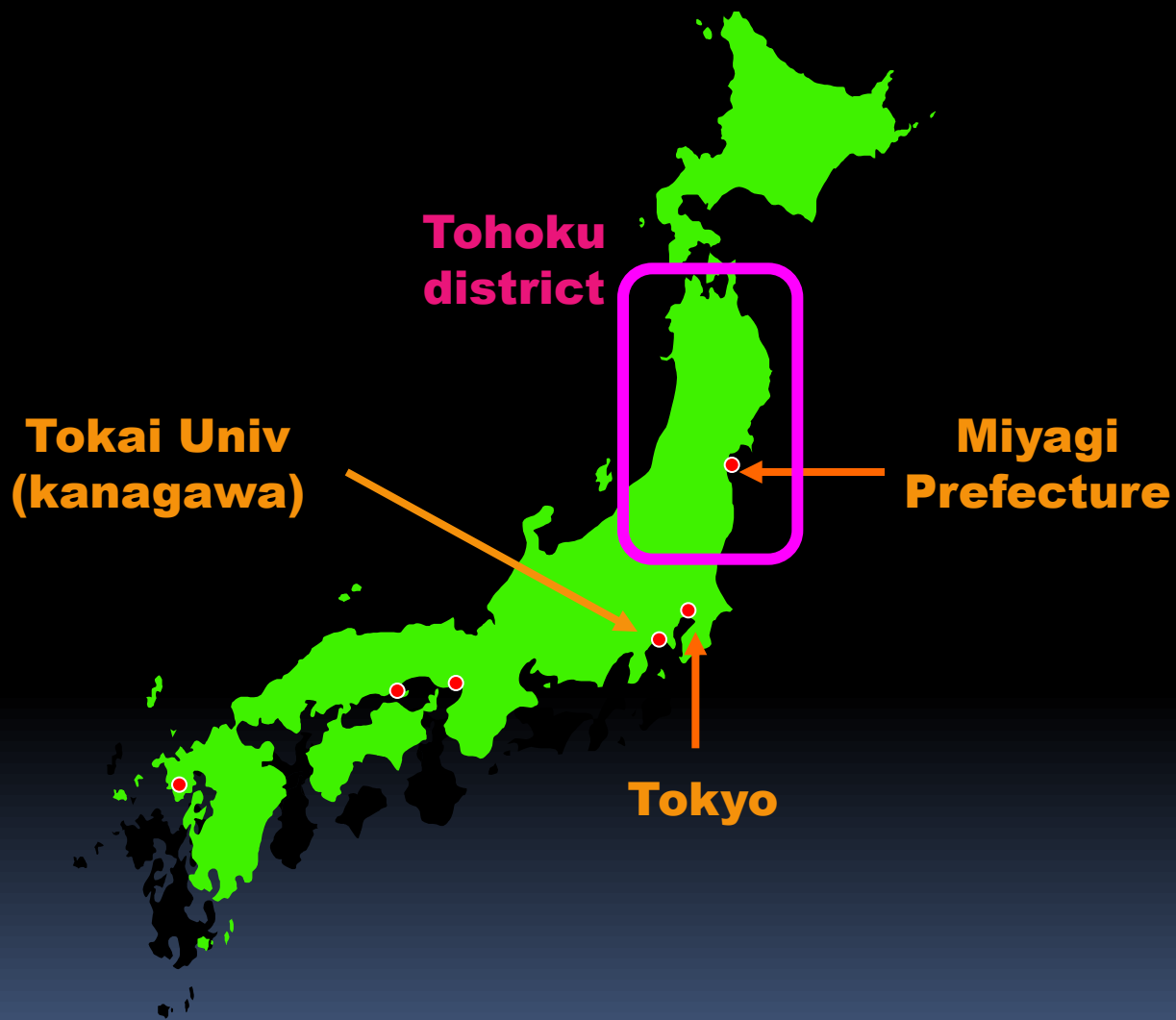
(Apr 2010)

MD 1463

Nurse 1774

Logi 1101





**Tohoku
district**

**Tokai Univ
(kanagawa)**

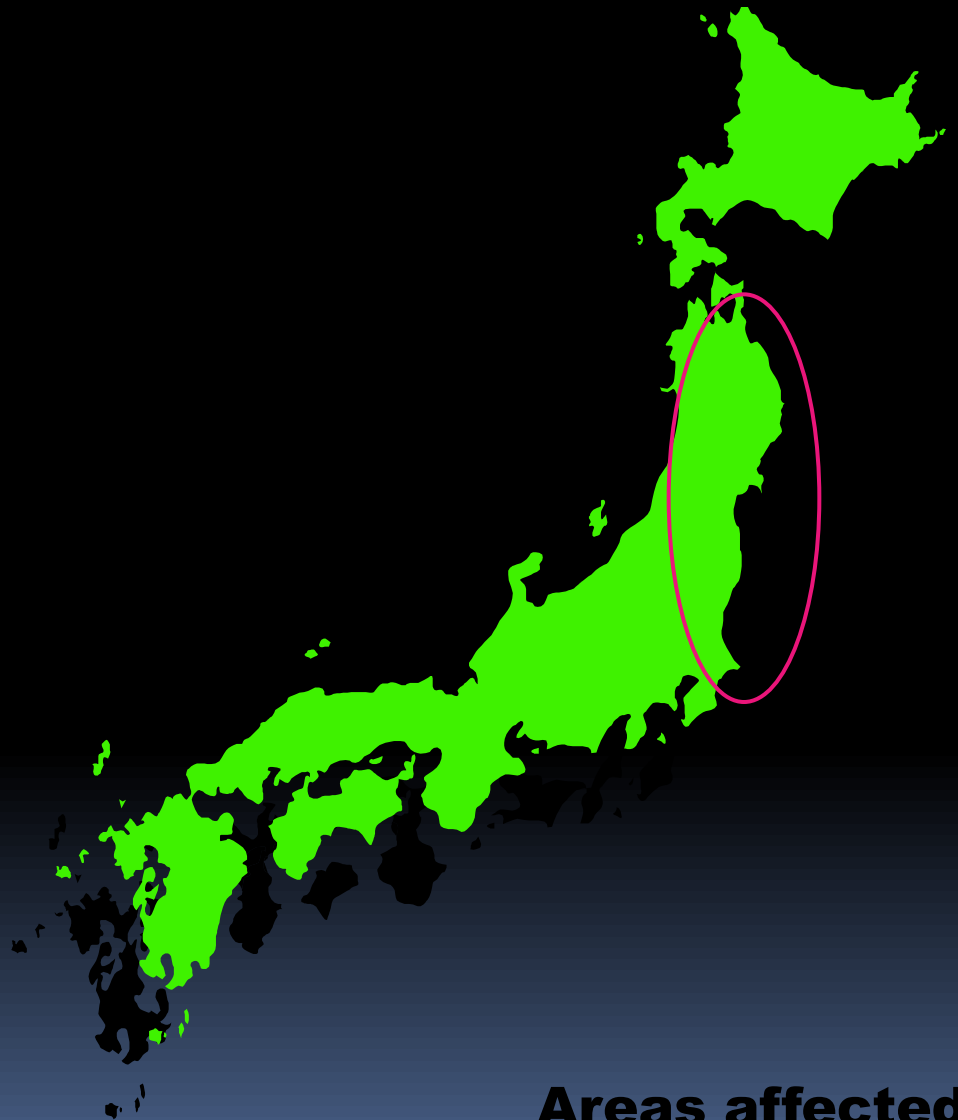
**Miyagi
Prefecture**

Tokyo



The Great East Japan Earthquake is a complex disaster that consists of an earthquake, a tsunami, and a nuclear power plant accident.

Tsunami



Areas affected by Tsunami

Earthquake



(Iwanuma City)





**Private house
(Minami-sanriku Town)**



**Private house
(Iwanuma City)**



Nuclear power plant accident



Tsunami

津波



(Ishinomaki City)

Tsunami

津波



(Onagawa-Town)

Tsunami

津波



(Natori City)

Tsunami

津波



(Minami-sanriku Town)

Why weren't we prepared
for this disaster?

想定外

Souteigai (Unexpected)



Unexpected?

Jun 15, 1896 22,066 people dead

March 3, 1933 3,000 people dead

:

July 3, 1993

The Okushiri Island Tsunami (Japan)

December 26, 2004

The Indian Ocean tsunami

Messages from the ancestors



Configuration factors of disaster risk

Hazard 

Earthquake tsunami

Exposure

(Population, assets)



Vulnerability

(Population, assets)



(Minami-sanriku Town)

Medical

Logistics


Logistics paralysis



No gasoline

Sendai City, March 20

Logistics paralysis

A photograph showing a person sitting at a table in a dark room. The room is dimly lit by a candle on the table and a lantern. The person is looking down at something on the table. The background shows a window and some shelves with items on them.

Rolling blackouts

Yamagata City, March 14

A gymnasium is a treasure-trove



May 4, 2011 Minamisanriku Town

We need professional management of logistics.

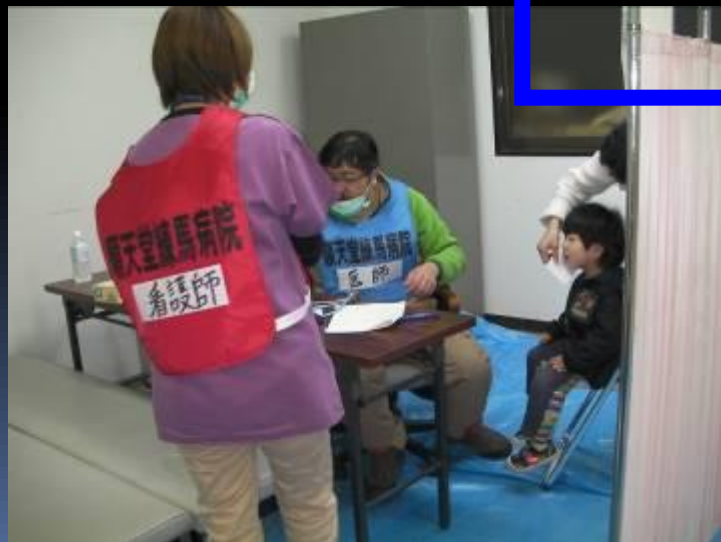


May 4, 2011 Minamisanriku Town

Disaster medical assistance



Logistics



Is Japan a dangerous place to live?



Disaster prevention



Disaster Mitigation

Natural phenomena ≠ Disaster

- *Do not forget lessons from our ancestors.**
- *The next generation should learn from our experiences.**
- *Do not fight against nature.
We can not defeat it.**



**Spring is coming soon!
(February 2012 , Kanagawa)**

**Thank you for your
attention.**



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