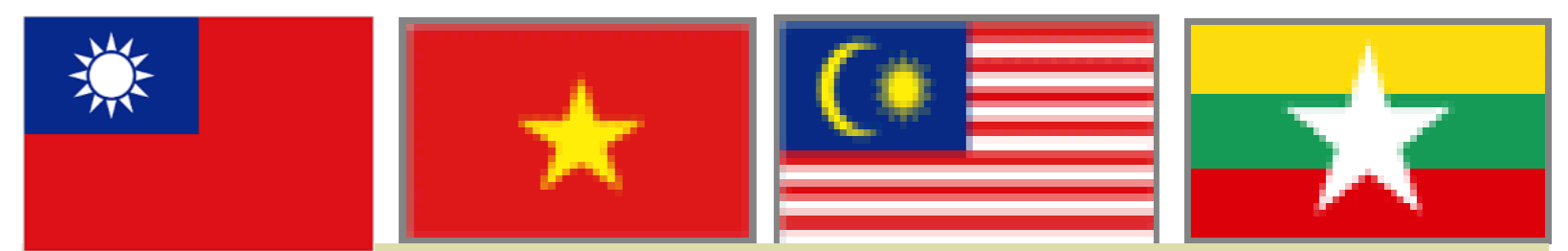


Behind the disaster in Sanriku

March 11, 2011



Presented By **Group II :**
Hiroshi, Ace, Lester, Khin

School/ Factors

Okawa Elementary School

Arahama Elementary School

Photo Of School



Location And Natural Environment

Ishinomaki City, Miyagi Prefecture,



Distance from the coast: 4km
Geomorphology: there is a river in front of the school;

Sendai City, Miyagi Prefecture, Japan



Distance from the coast: 0.7km
Geomorphology: is located in a plain

Experience Of Tsunami

There was an EQ happened on 3/9, 2011, Tsunami occurred also (MAX: 0.5m in other site of Ishinomaki City)

→ They hardly think Tsunami will hit the school.

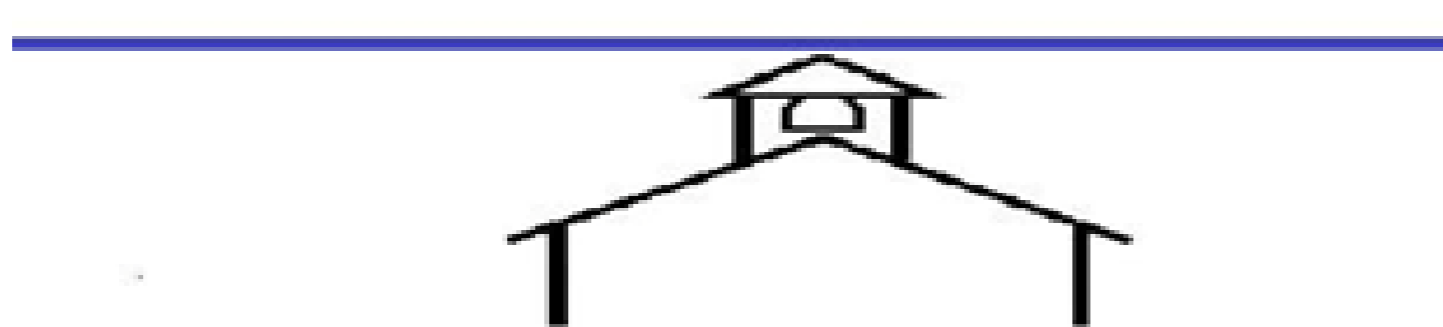
1978 Miyagiken-oki EQ happened

→ place for evacuation such as hill is needed
→ Building of new school building, with four stories

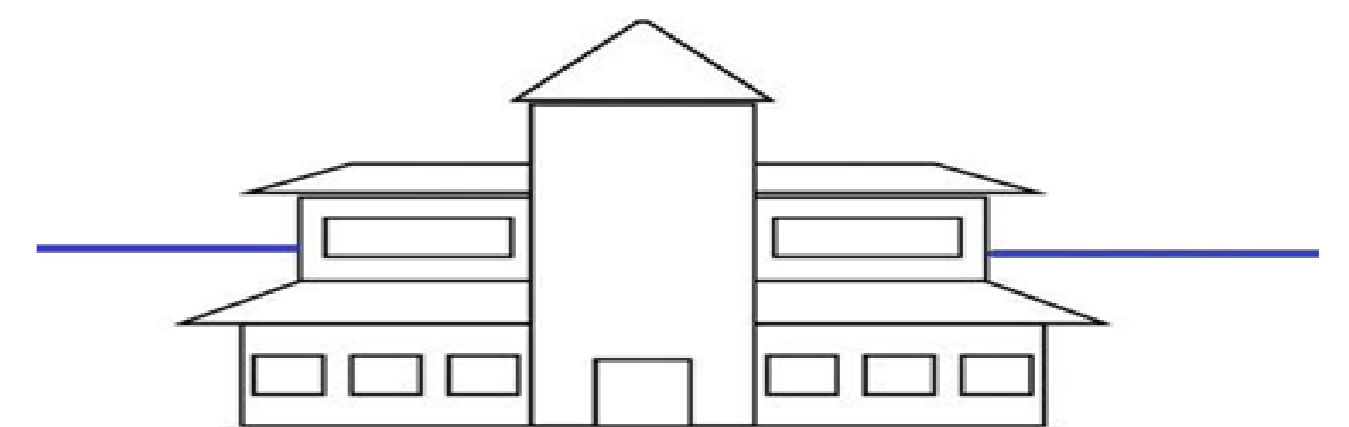
2010 Chilean EQ, Tsunami came also

→ designed as an evacuation place
→ preparation of stockpile for at least 3 Days

The height of Tsunami: 4m above the yard



The height of Tsunami: 0.4m above 2F



Action After EQ And heard the alert Of Tsunami

In the beginning, principal select to evacuate to yard instead of moving to the hill behind the school.

50min. after EQ, the evacuation begins again

→ decide to move from yard to other place

1min. later, the Tsunami hit

→ 1/11 teacher; 4/78 student survived.

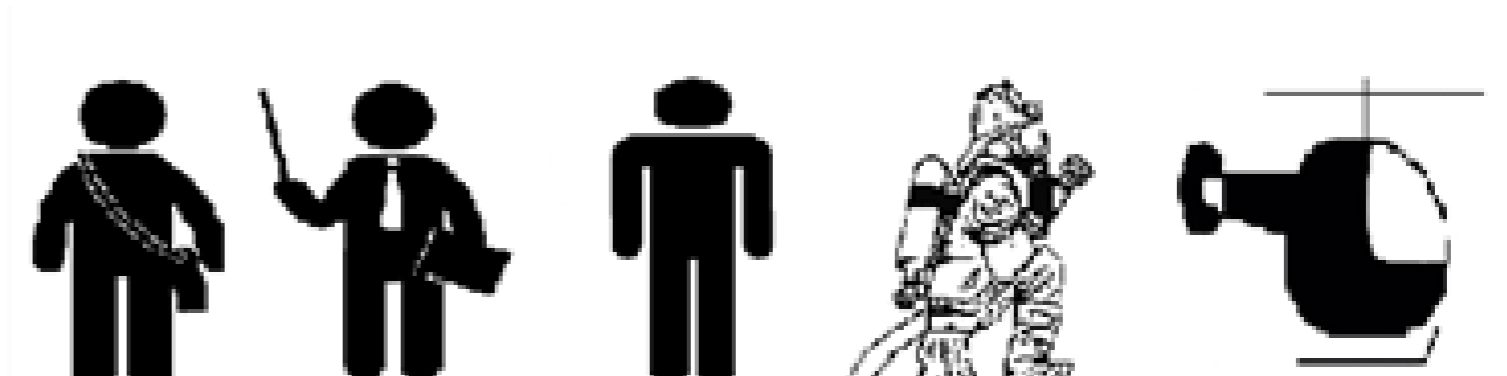
The evacuation begins

→ move to the 3 or 4F of the school building

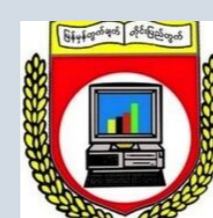
25 min. after EQ, the start of allowing the resident to move in.

45 min. later Tsunami hit the school on 2F,

Everyone is safe.



Stakeholders



Reference:

Maps of Miyagi Prefecture
<http://www.abysse.co.jp/japan/pref/miyagi.html>

<https://www.youtube.com/watch?v=swNFnP8R4vI>

Geospatial Information Authority of Japan (searched on 3/09, 2017)

Ishinomaki City

<http://maps.gsi.go.jp/#14/38.549844/141.444941/&base=std&ls=std&disp=1&vs=c1j010u0f0>

Sendai City

<http://maps.gsi.go.jp/#13/38.216874/140.979996/&base=std&ls=std&disp=1&vs=c1j010u0f0>