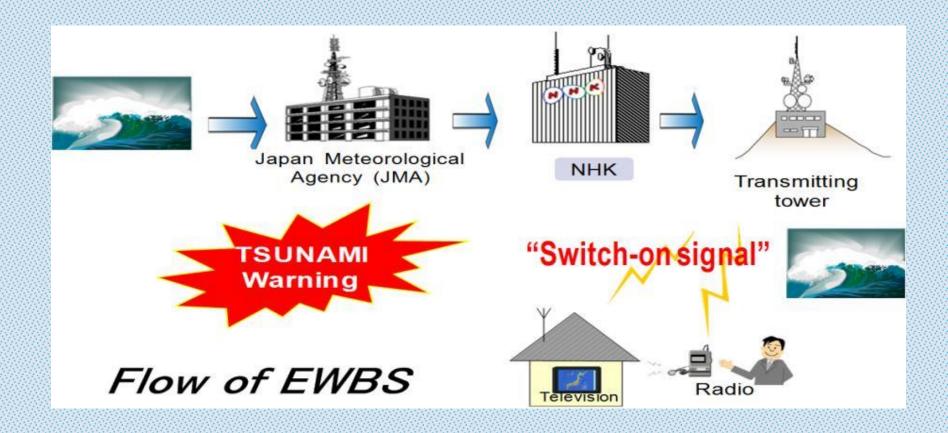
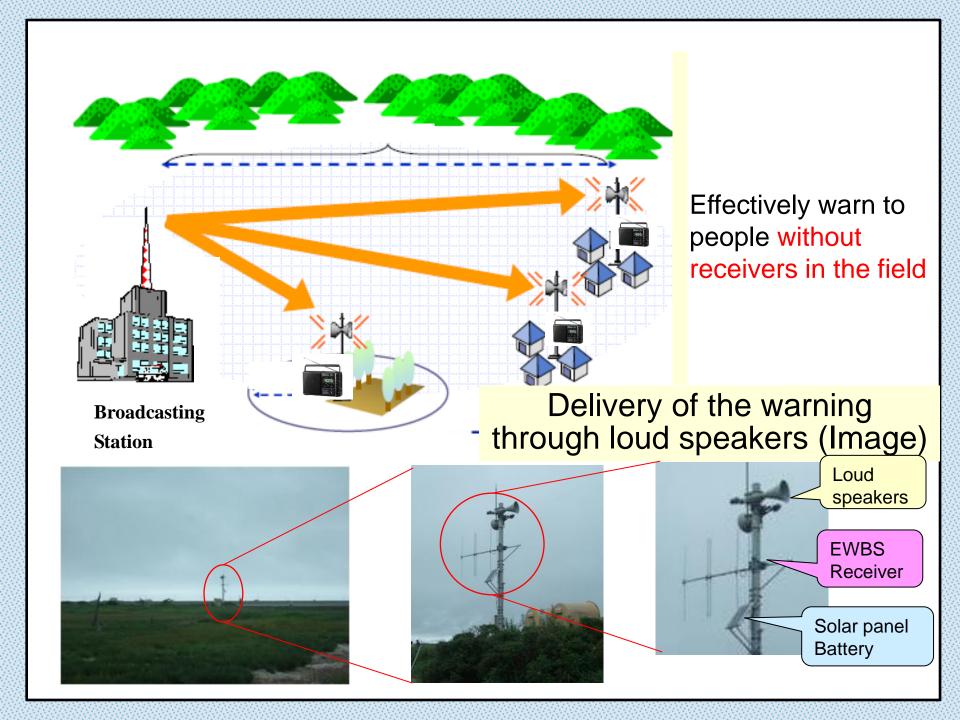
Lessons learned

Japanese experience

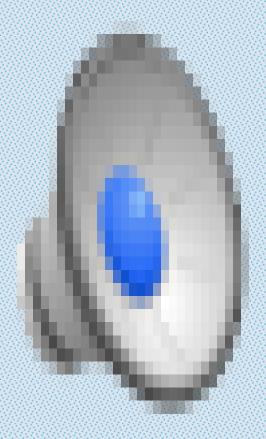
 NHK and JMA has a setup that works automatically in early warnings, specially EEW





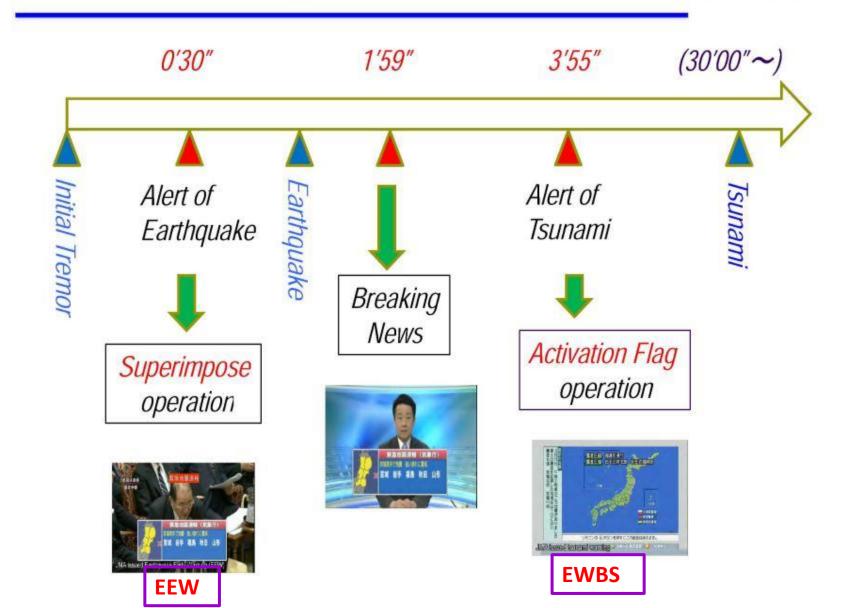
Japanese experience

- The Great Eastern Earthquake and Tsunami of March 2011
- NHK relayed the earthquake early warning 1-3sec after the earthquake was felt
- Followed with seismic information in 30-60sec
- Started breaking news within 2mins of the first warning
- Issued the first Tsunami warning within 4mins



NHK's Broadcasting on 11th March, 2011





One of the surveys conducted

Asked how they got tsunami information

Answers	Kamaishi	Natori
Radio	12%	39%
Fire station's or municipal information vans	10%	25%
Families or neighbors	3%	25%
Television	5%	10%
One-Seg (mobile TV)	3%	6%
Anti-disaster wireless (loud speaker)	78%	4%

(Multiple answers allowed)

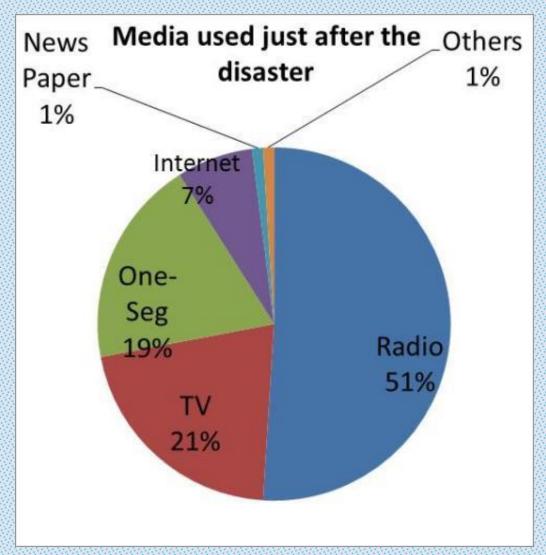
One of the surveys conducted

Asked what they should do to save them from tsunami

- Take refuge on higher hilltop as soon as possible after experiencing any big quake near coast.
- Make any ways to get tsunami alert, disaster information or the like more promptly in any situation such as losing electricity.
- Construct facilities such as breakwaters able to resist tsunami.
- Build shelters enough to be able to accommodate refugees.
- Make it more accurate to predict or forecast tsunami.

(The majority answers when multiple answers allowed)

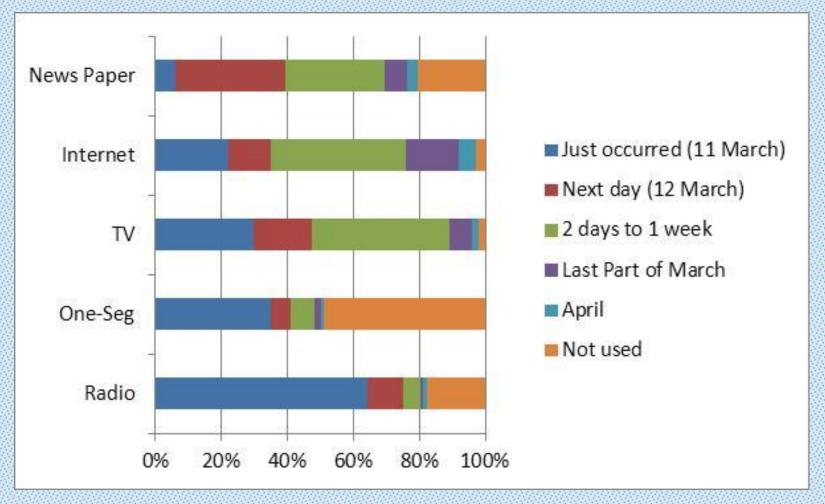
Survey Results by NHK Broadcasting Culture Research Institute



^{*} From more than 3000 respondents

Survey Results by NHK Broadcasting Culture Research Institute

How they used media after the disaster



^{*} From more than 3000 respondents

Did a sense of crisis reach to audience?



O Urged to evacuate 21 times during the 30 min. before tsunami waves arrived.

"please evacuate to higher ground quickly..."

- ⇒ Was it able to urge a more critical feeling to the viewers than past tsunamis?
- O Efforts to report the facts objectively.

 "Change of a tide level cannot be checked yet"

 "For the moment, there is no information on damage"
 - → "Normality bias" had been intensified?
 - O Was the graphics effective enough?

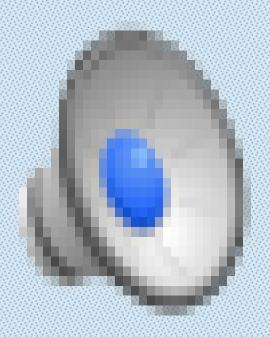


Improvement of tsunami warning broadcast

Wording of major tsunami warnings

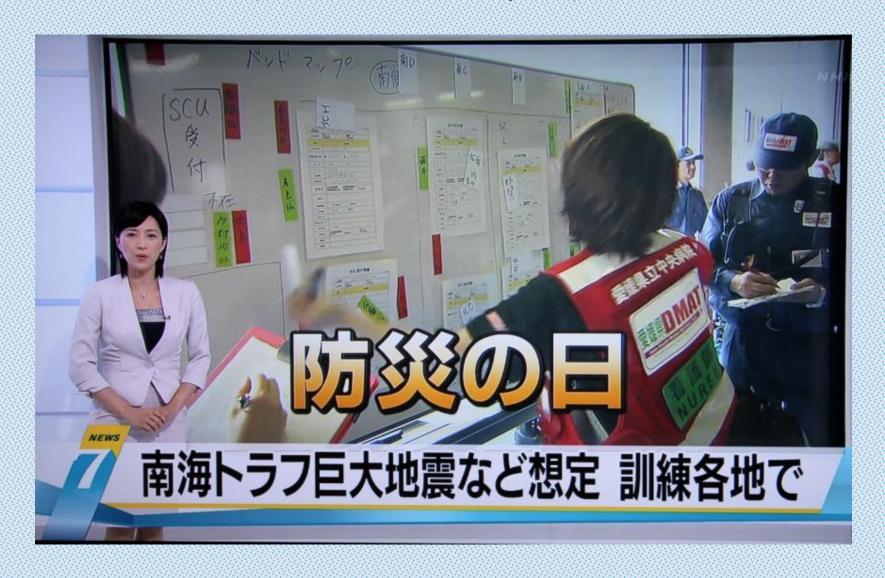
- 1) More assertive "Major tsunami is coming!"
- 2) More imperative "Evacuate immediately!"
- 3) Sense of urgency "Evacuate to save your lives!"





Disaster-Prevention Day

(NHK News, Sep. 1)





Improving weather reporting

- NHK spends 80 min. a day in total for weather information
- We allocate more time when severe weather is expected
- Weather caster call for attentions and preparedness.







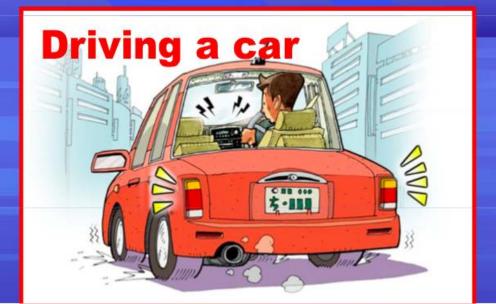
Every Night Drill, NHK Broadcast Center

- Overnight-shift news and engineering staff, conduct routine exercise every midnight according to the manual.
- The fundamentals of disaster-prevention reports include delivering information from JMA accurately and promptly and to urge the audience to remain calm.

Educating the public









Philippines experience



Media integration

- Media integration is key to improving the disaster preparedness of societies
- We need to work more closely with other stakeholders
- Someone has to take the lead in integrating the SOPs
- Some sort of regulation needs to be in place from the authorities



Thank you