# Emergency Warning Broadcast System (EWBS)

9<sup>th</sup> MAR. 2023

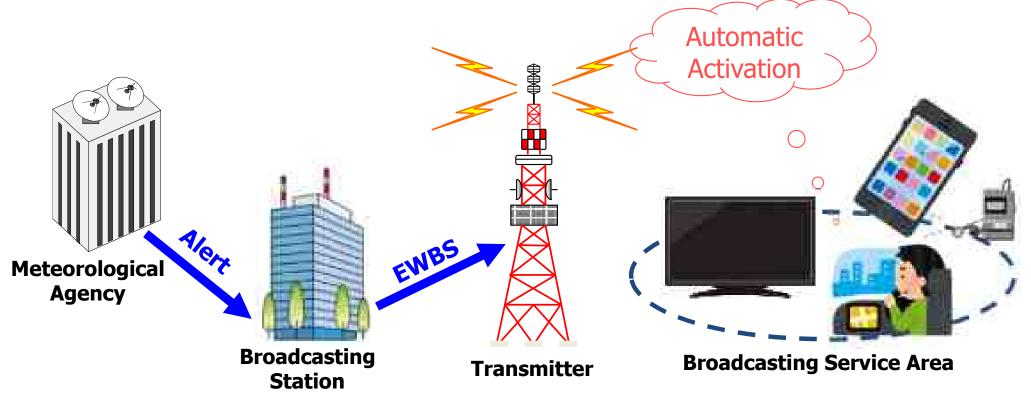
Engineering Administration Department NHK (Japan Broadcasting Corporation)

# What is EWBS ?

- Remote activation of Radio and TV receivers ready for EWBS
  - AM, FM Radio : Control signal and Alert Sound
  - Digital TV Broadcasting "ISDB-T" :

**EWBS Control (Activation Flag)** 

- In Japan, EWBS has been operated since September 1985.
  EWBS on ISDB-T has been operated since December 2003.
- EWBS test signals are monthly broadcast in Japan.



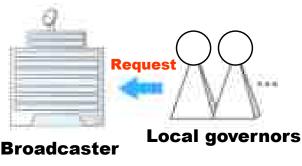
## **Operation of EWBS**

In Japan, EWBS is operated under three conditions:

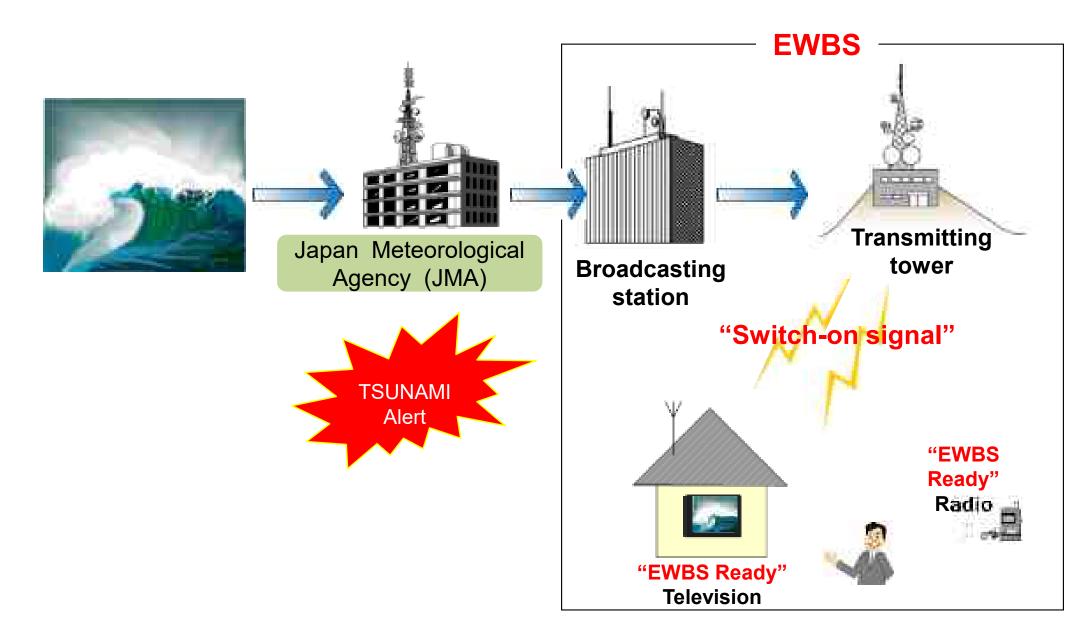
 The precaution declaration of the large-scale earthquake.

– Tsunami alert.

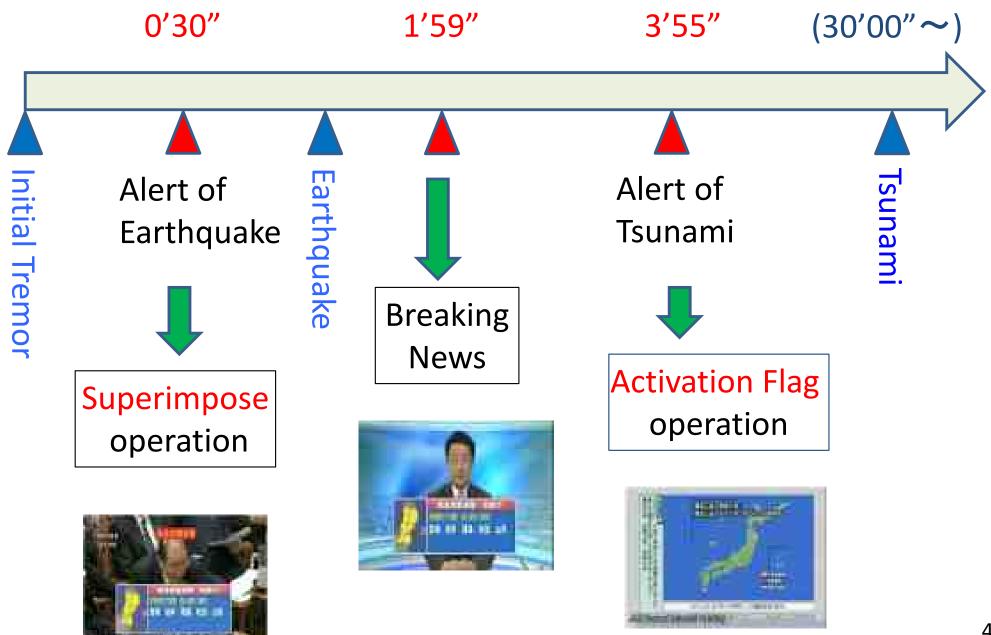
The local governor's request for an emergency warning broadcast.



#### Example Flow of Emergency Warning Broadcasting System (EWBS) Operation in JAPAN

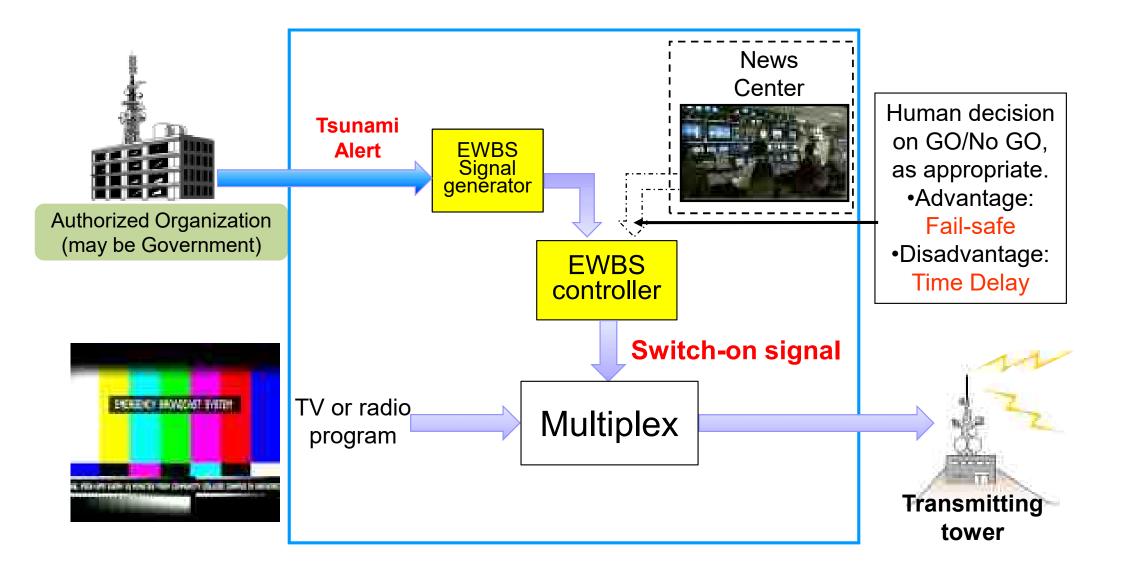


## NHK's Broadcasting on 11th March, 2011

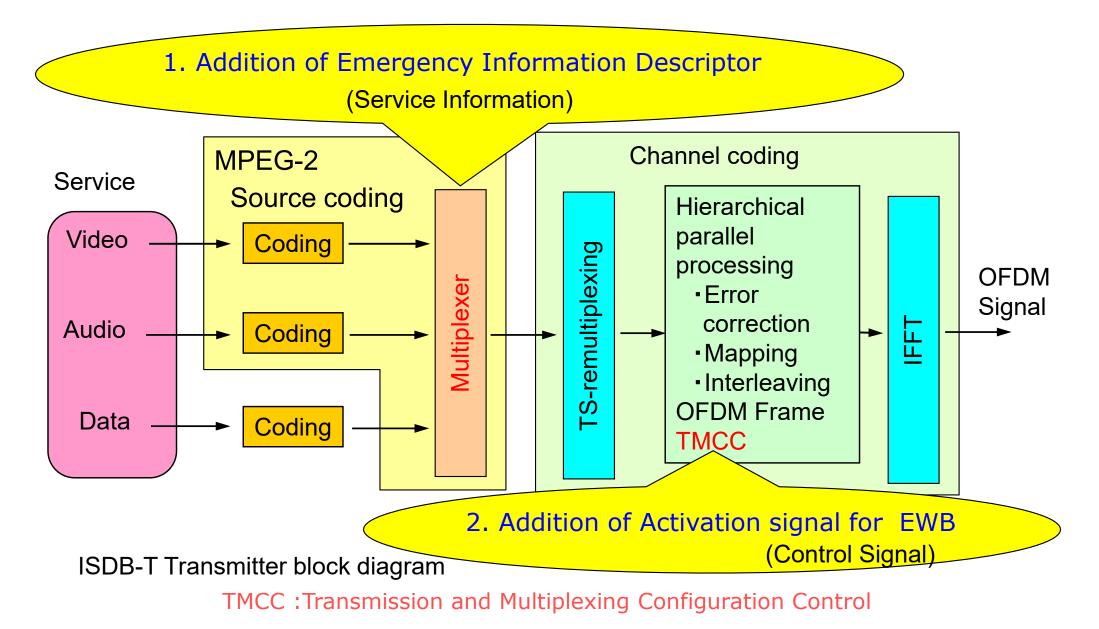


## NHK's Broadcasting on 11th March, 2011



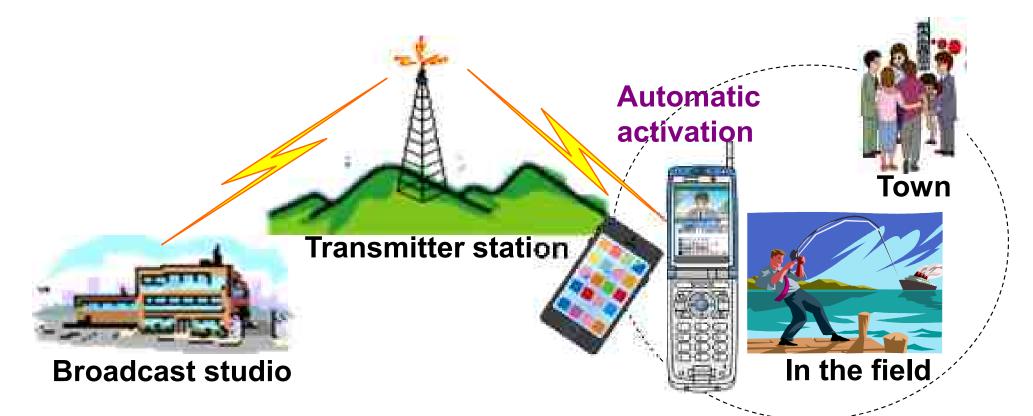


#### TWO EWBS signals on ISDB-T system



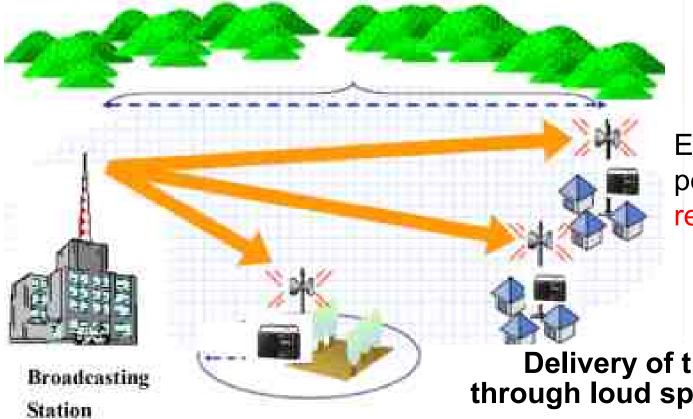
## **One-Seg service and EWBS**

- One-Seg service commenced on 1<sup>st</sup> April, 2006
  - One-Seg service is capable of transmitting EWBS



People can get disaster information quickly anywhere if cellular phones equip with One-Seg receivers capable to receive EWB

### Example of Delivery of Warning using EWBS



Effectively warn to people without receivers in the field

**Delivery of the warning** through loud speakers (Image)



## Thank you for your attention