





- Mobile Networks may be down
- Can we trust the veracity of social media?



 Broadcast Radio has the highest uptime, but reaches only radio listeners



Paneda has developed a complete eco system using DAB technology for warning system, including dedicated receivers



IP 67

MULTI USAGE

ADRESSABLE

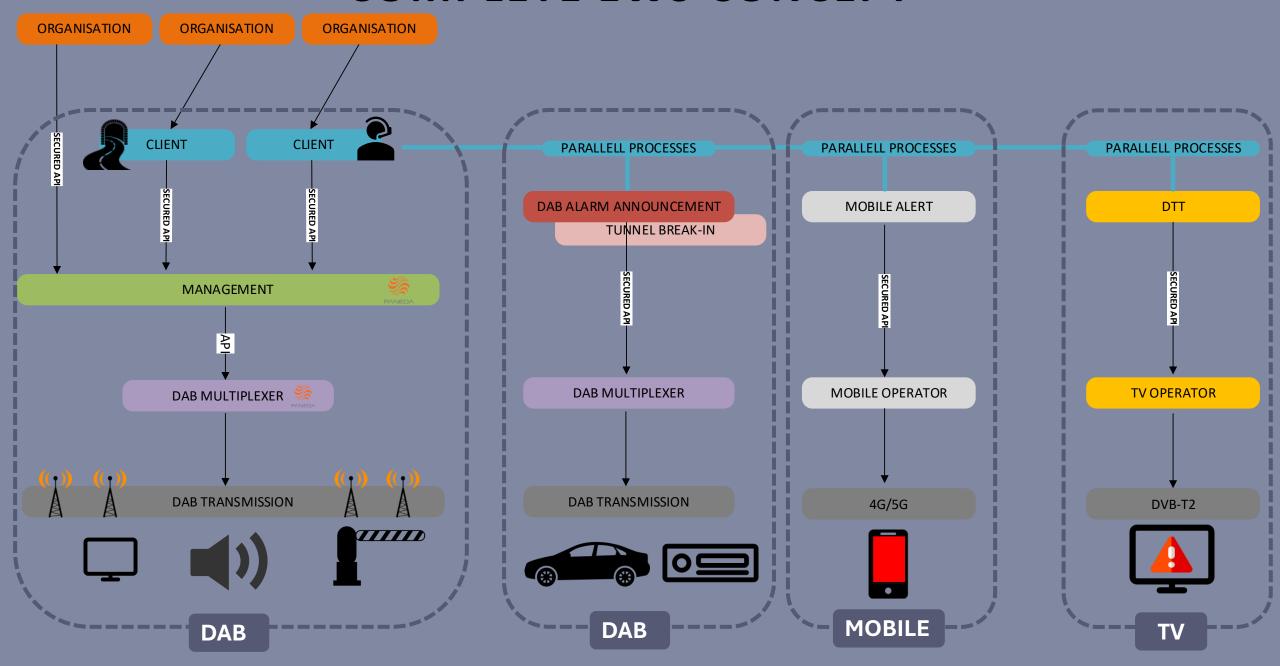






THE FLOW 10101 10101 10101 10101 10101 DAB MUX LOCATIONS SCENARIOS TERROR OSLO EARTHQUAKE BERGEN TSUNAMI TRONDHEIM INFORMATION ---> 1 SEC TRIGGER TIME < ---

COMPLETE EWS CONCEPT



CONCLUSIONS



MOBILE NETWORKS

Reaches people having instant access to a device Are in a coverage area Mobile network in operation



RADIO BROADCAST

Public Broadcasters are responsible for "Emergency population warning" Reaches people listening to radio Majority of listening is in cars



PWS

REACH MORE PEOPLE SAVE LIVES FAST!

Does not compete with other systems

Does not require Internet or mobile networks







ADDITIONAL SLIDES (NOT PRESENTED)





A REAL USE CASE

https://www.youtube.com/watch?v=QPIOV-tCaEU



1 km

PANEDA SUPPLIER OF COMPLETE TRIGGER SYSTEM

LOUDSPEAKER SYSTEM
SIREN SYSTEM
FIRE ALARM SYSTEM
SIGNS
LED
SCREENS

TRIGGERED BY DAB AND 4G/5G



LIVE FIELD TESTS

BACKGROUND

In a small city in Norway, Paneda and its partner installed 20 PWS receivers for different applications, sirens, loudspeakers, connected screens and different types of signs.

Together with a partner, also an SMS broadcast system was installed.

SCENARIO

Fire in the harbour battery park, extremely dangerous gas leakage, deadly within 2 minutes

TARGETS

To start evacuation of people to a collection point
Rescue team 9 minutes away, and most of the evacuation should have been performed by the time they arrived



SUCCESS!



CHIEF OFFICER SAYS

These type of systems plays an important role for us. When we arrived on site, most of the evacuation was done and we could focus on what we do best, save life and put out fires!

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https://youtu.be/-bAGPEbHre

