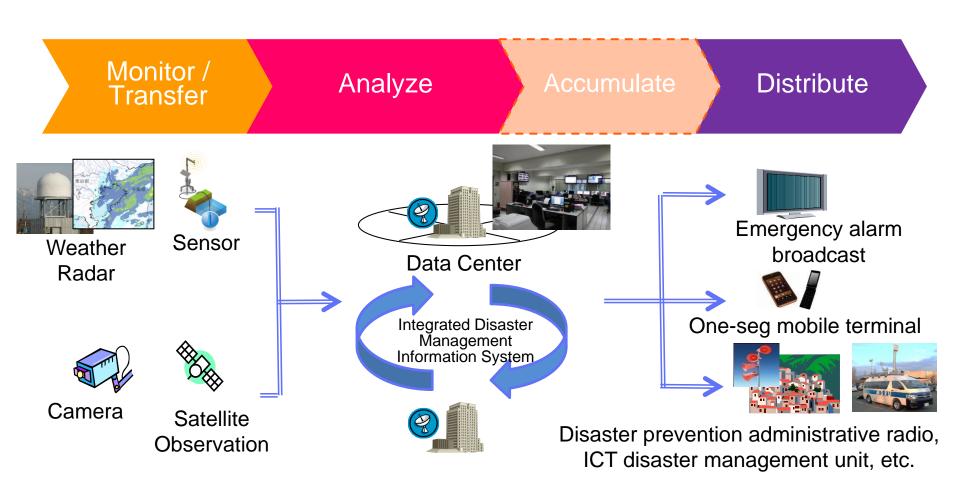


ICT for Disaster Management



- ➤Information distribution is an important factor for disaster management.
- ➤ Effective and efficient disaster management is made possible by ICT.
- ➤ICT for disaster management can be classified into 4 stages.

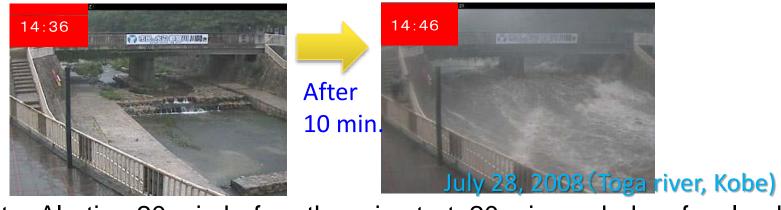




Real-time bigdata analysis



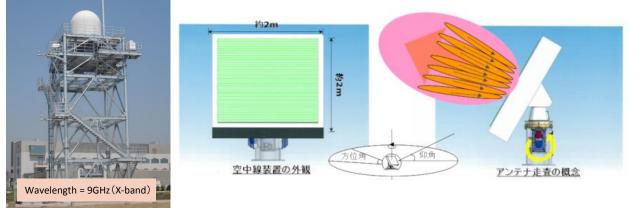
For Localized torrential rainfall



 Target > Alerting 20 min before the rain start. 20 min = a baby of a cloud grows up to a cumulonimbus and start to rain.

Censor > Phased Array Weather Rader: X-band radar to find particles of

water in air with 3-D.



 Challenge > Bigdata analysis (collect, transfer, calculate, store) in realtime. Data size = 500MB/30sec, 1.5TB/day. Real-time = 1min.



SNS as a sensor for disaster management



- Under a disaster, SNS (e.g. twitter) is a useful tool to share information between victims, their families, rescues and governments. However...
- Challenge > large, massive, mess, non-structured data.
- DISAANA (DISaster information ANAlyzer)



- Basically Real-time QA service using Twitter
- Available for public use through the Web and smartphones
- The government used DISAANA to collect the victims' needs in the damaged area and local governments were instructed according to the DISAANA's output













