



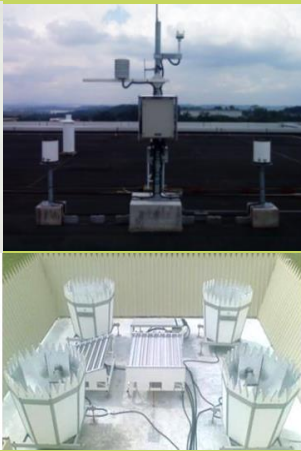
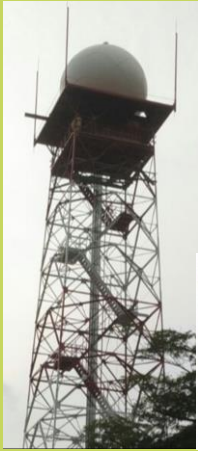
Meteorological Service Singapore's milestones over the last 50 years

Ms Patricia Ee
Director (Weather Services Department)

50th Session
ESCAP/WMO Typhoon Committee

28 Feb 2018

Significant Milestones



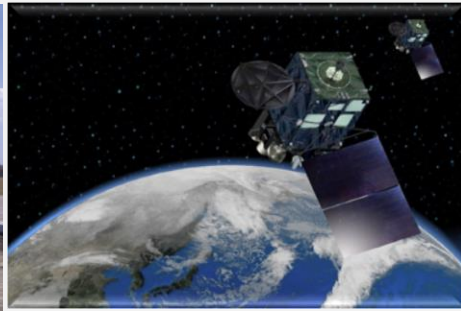
1971 – First weather radar
Today – Comprehensive observation network



1997 – National Seismic Network



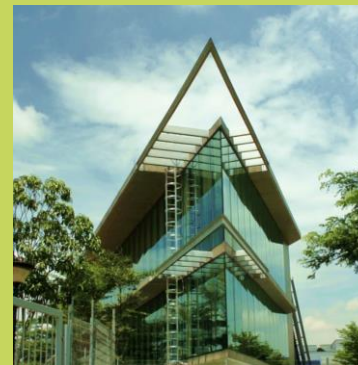
2008 – National Tsunami Early Warning System



1972 – Meteorological satellite data reception
Today – Receiving data from an array of meteorological and environmental satellites



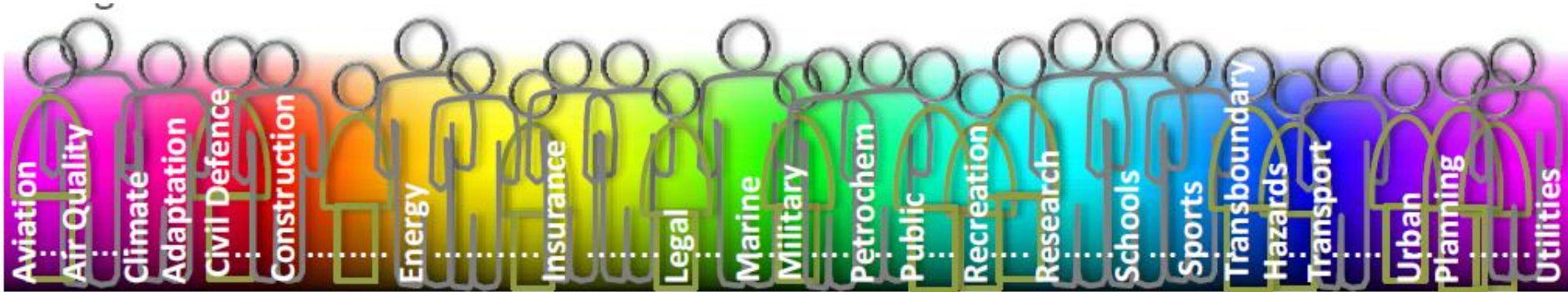
1993 – 2002 – ASEAN Specialised Meteorological Centre (ASMC) as regional centre for enhancing weather and climate prediction services, and haze monitoring



2013 – Centre for Climate Research Singapore (CCRS), focusing on research on tropical weather and climate systems

Key Weather Services

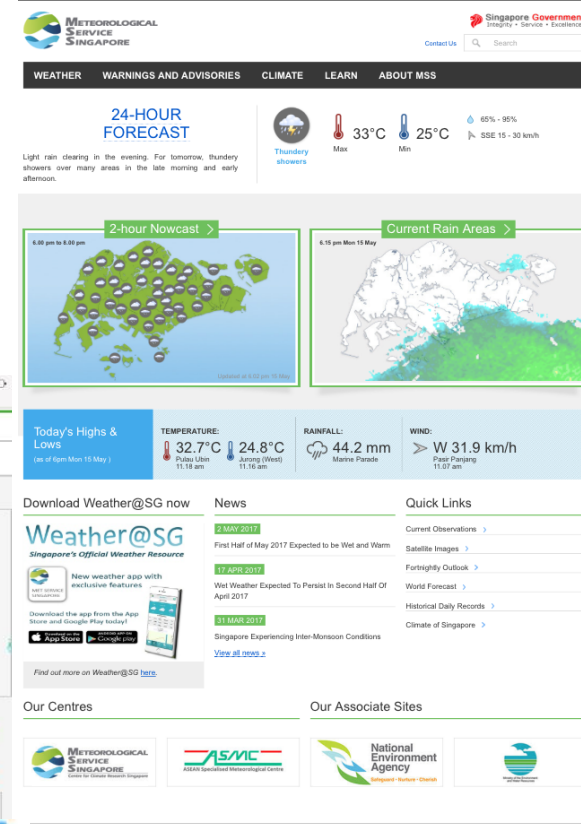
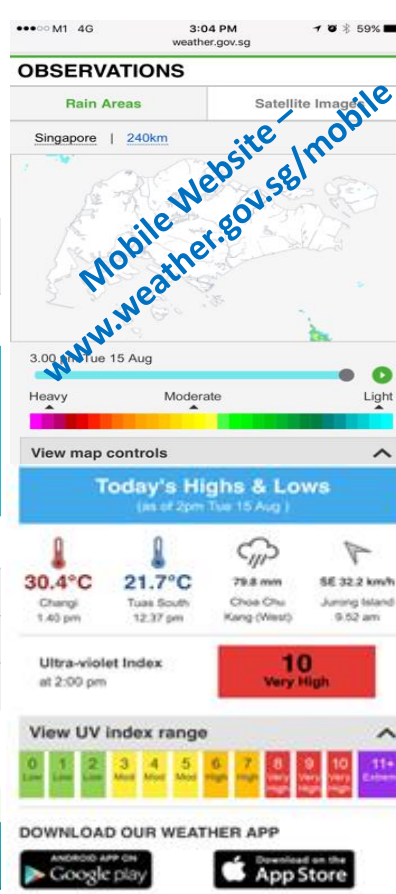
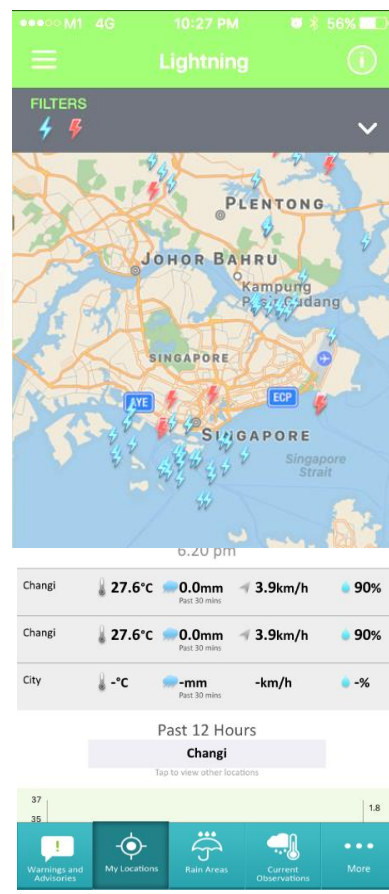
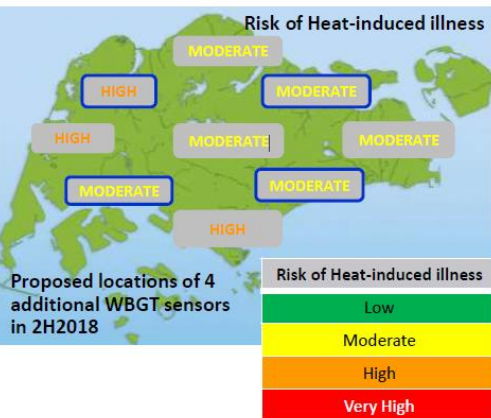
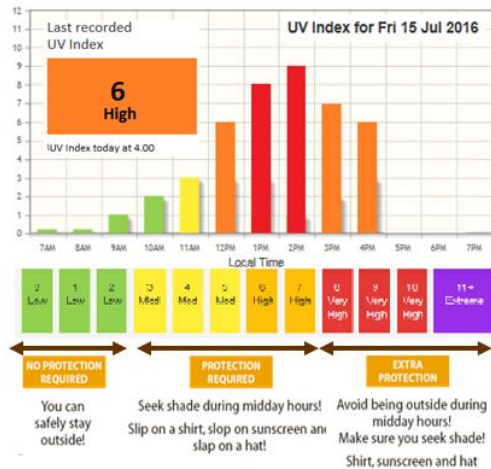
Our services serve a wide spectrum of users/customers and sectors who rely on **time-critical meteorological forecasts and information** to make important decisions in operations and planning



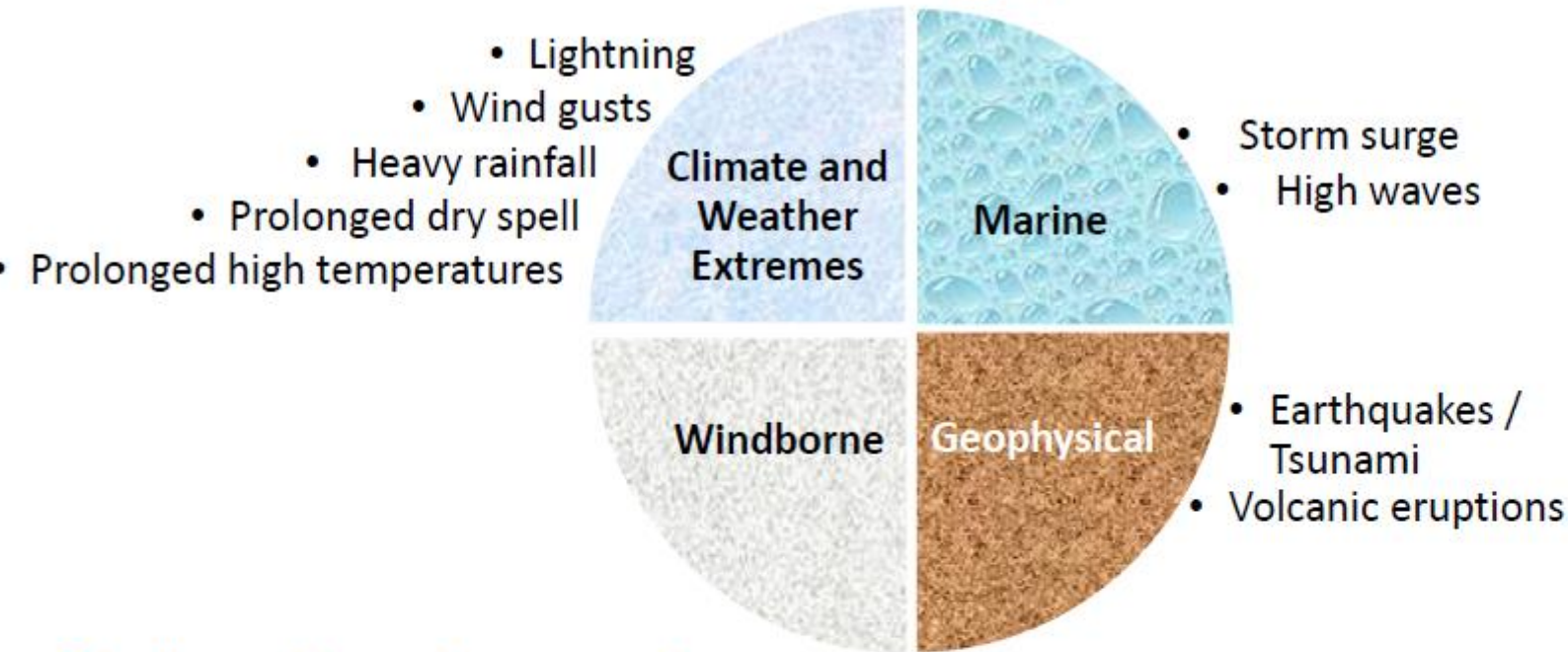
- **Weather Forecast and Warning Services**
- **Monitoring and Early Warning Of Multi-Hazards**

Weather Forecast and Information Services

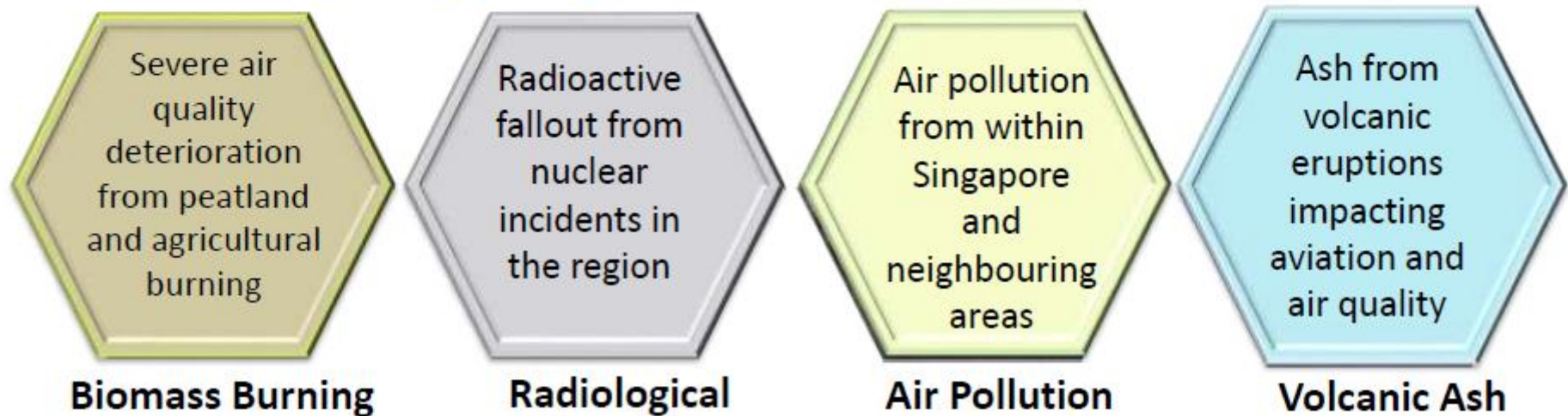
- Updating through online and mobile applications for timely dissemination



Multi-Hazard Warnings/Advisories



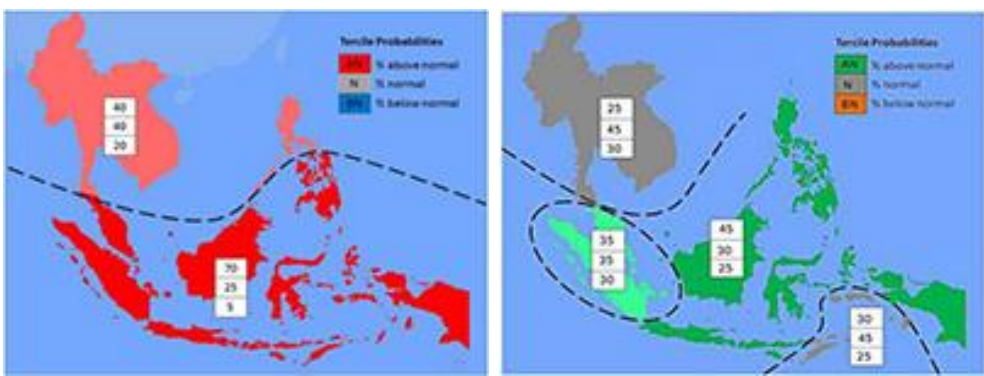
Windborne hazards are growing concern



These hazards are characterised by:

- Sudden onset
- Swift transport
- Uncertainty at source

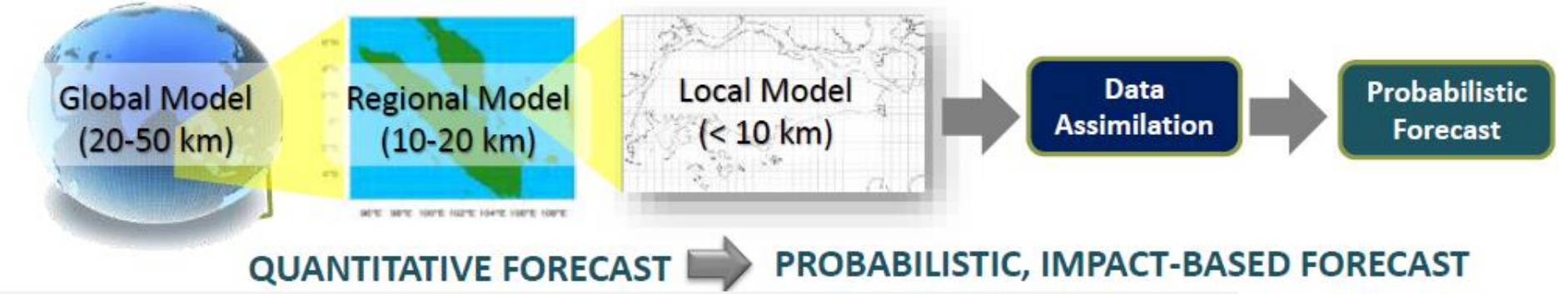
Enhancing Capabilities to Improve Forecast Services



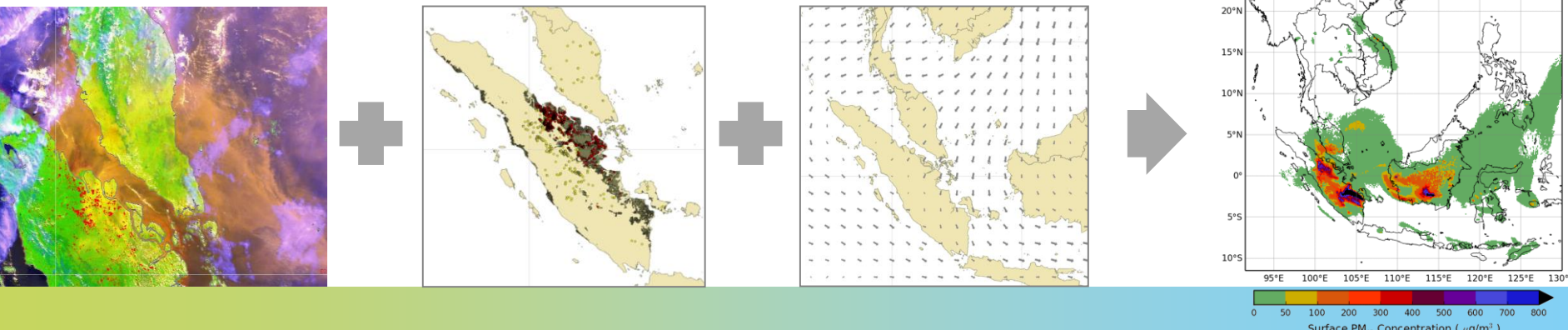
Better and improved Seasonal and Sub-seasonal forecasts to anticipate extreme conditions and climate variability



Enhanced Numerical Weather Prediction (NWP) Modelling capabilities, focusing on the tropics



Applied Modelling – Downstream applications utilising NWP information





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