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Fujitsu's approaches to Climate Change Adaptation and Disaster Risk Reduction

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Beautiful paradise, Bahamas

Devastating Climaterelated Disasters worldwide

出典: 8.20 豪雨災害における避難対策検討部会

Patricia – the strongest hurricane ever recorded (Oct., 2015) The western coast/Mexico

Harvepino / Shutterstock.com



Flooding submerged large parts of the historic city (Oct., 2015) Ayuttaya/Thailand

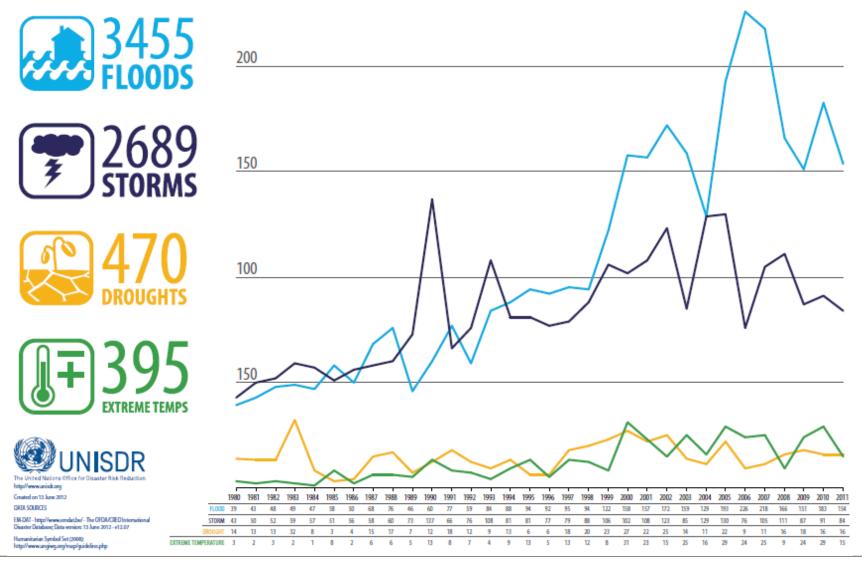
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Forest Fire - Valley And Butte Wildfires Among Most Damaging In California History (Sep., 2015)

Disaster Data & Statistics



Number of Climate-related Disasters Around the World (1980-2011)



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Weather-related financial loss worldwide Fujirsu 1980 – 2014 Percentage distribution Munich RE = Overall losses** US\$ 3,300bn 19,200 Loss events **46% 51% 41% 32%** 13% 17% **Losses in 2014 values, adjusted to inflation based on country CPI Meteorological events **Climatological events** Hydrological events (Flood, mass (Tropical storm, extratropical (Extreme temperature, storm, convective storm, drought, forest fire) movement) local storm)



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Fujitsu's Sustainability Solutions

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Our approaches to Adaptation



Disaster	Weather prediction simulation	Natural disaster simulation	
Water resource	Water Trading Management System	Material design of Water filtration and circulation systems	*
Food and Agriculture	Food and Agriculture Cloud Services (Akisai)	Agricultural land satellite analysis service	
Natural ecosystem	Biodiversity Cloud Service	Hyperspectral Vegetation maps	
Livelihood	Location data service (SPATIOWL)	Smart Grid	
Health	Regional medical network (Human Bridge)	Drug discovery simulation	azeroece 🔊



High-Performance Computer Technology

K computer takes first place in Graph 500 supercomputer ranking (June 2015)

K computer

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Global scale satellite project

103



Global Precipitation Measurement (GPM) Japan's Dual-frequency Precipitation Radar (DPR)

NASA/JAXA

Key driver of the GPM/DPR Project



GPM/DPR Mission Operations System

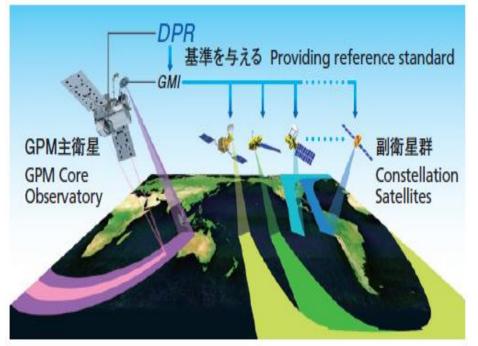


Image: state stat

The observation accuracy of the constellation satellites is calibrated and improved by the reference standard provided by the GPM core satellite. 3D of precipitation by DPR on board the GPM Core Observatory. The image shows the distribution of heavy rainfall caused by an extratropical cyclone that had developed.

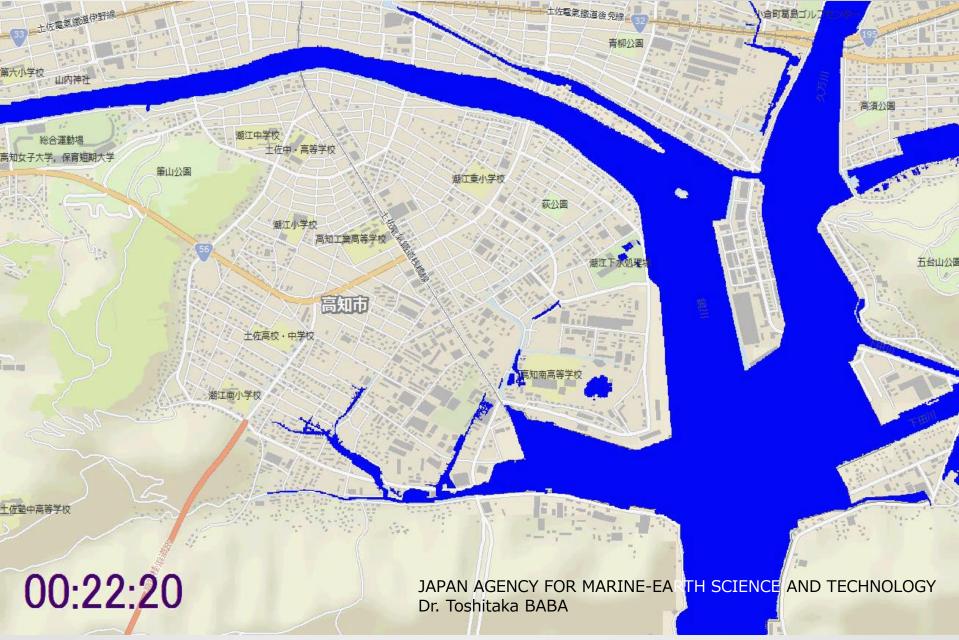


Anti-disaster Simulation Technology

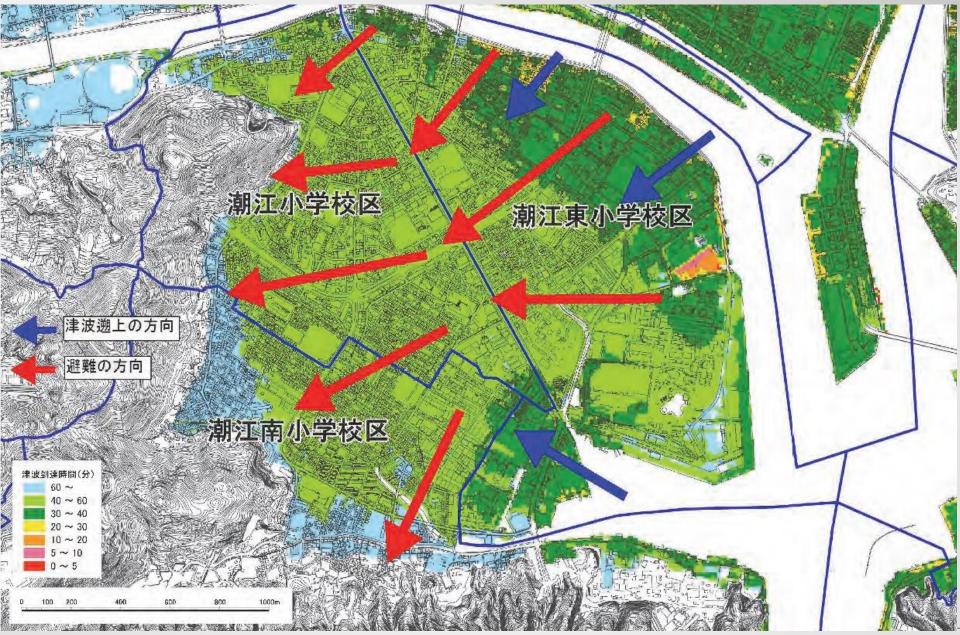


High-Tide/Tsunami Impact Simulation





Hazard Map created by local governmentuinsu





Mobile Telecom. Technology

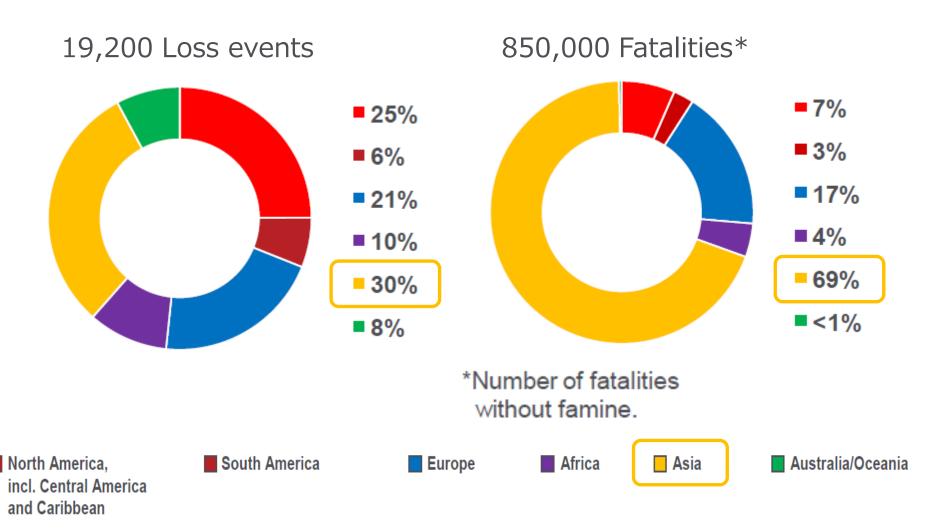


Weather-related fatalities worldwide

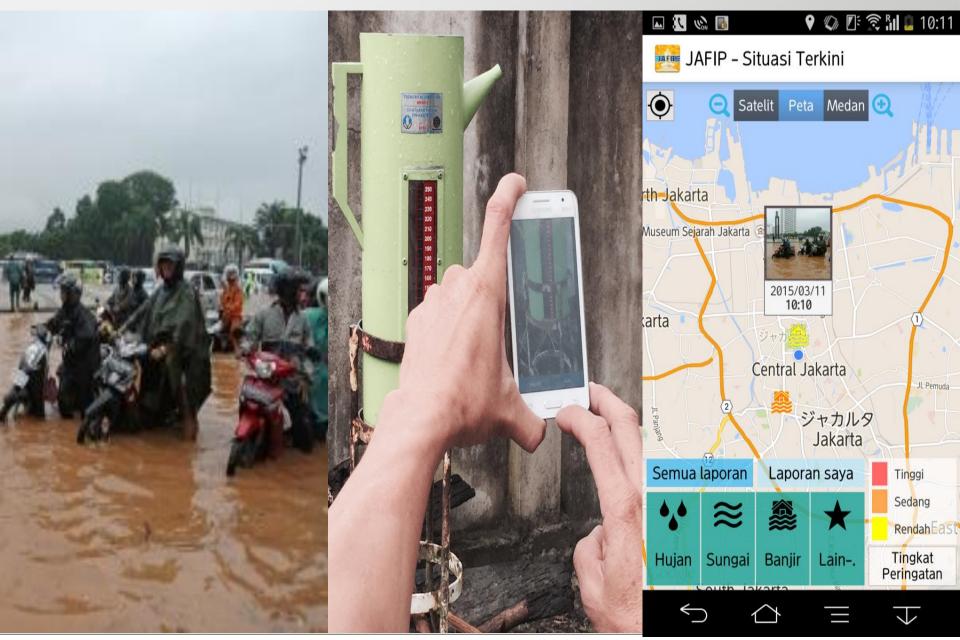
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Munich RE 🗐

1980 – 2014 Percentage distribution



Disaster Prevention System based on smartphones Fujirsu



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for sustainability and beyond...

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