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Hazard *Ready*TM

Sharing Good Practice

EU Disaster Prevention Workshop in Stockholm, Sweden July 2009

Sophie Purdey

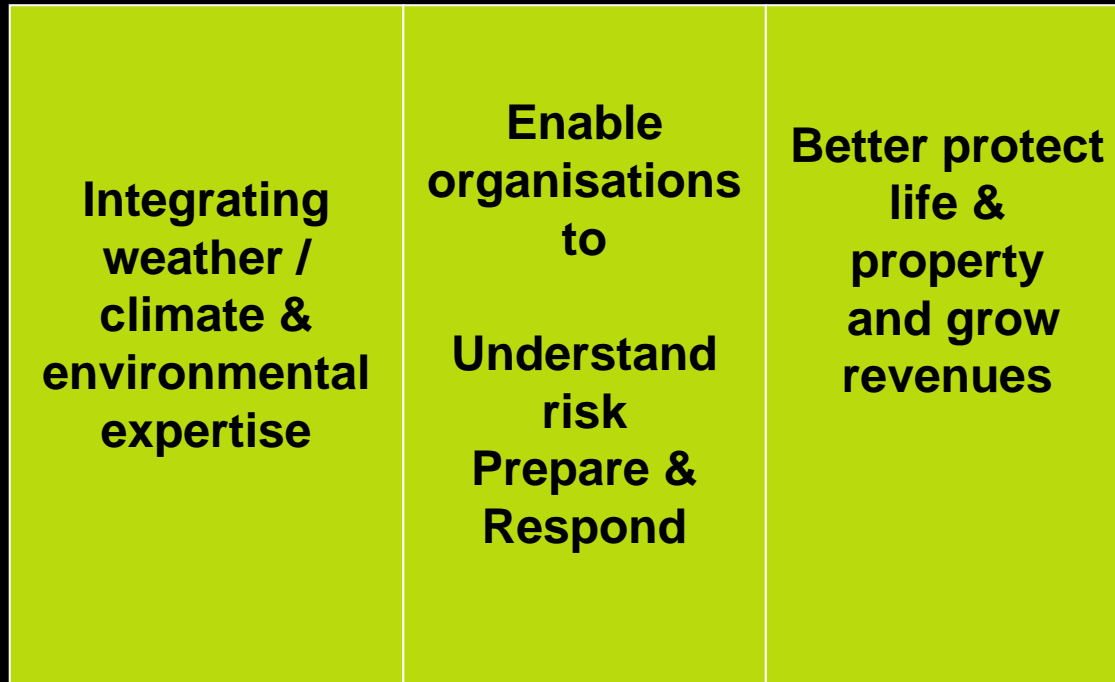
Head, Hazard Management Services



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What is it about?

Big Picture



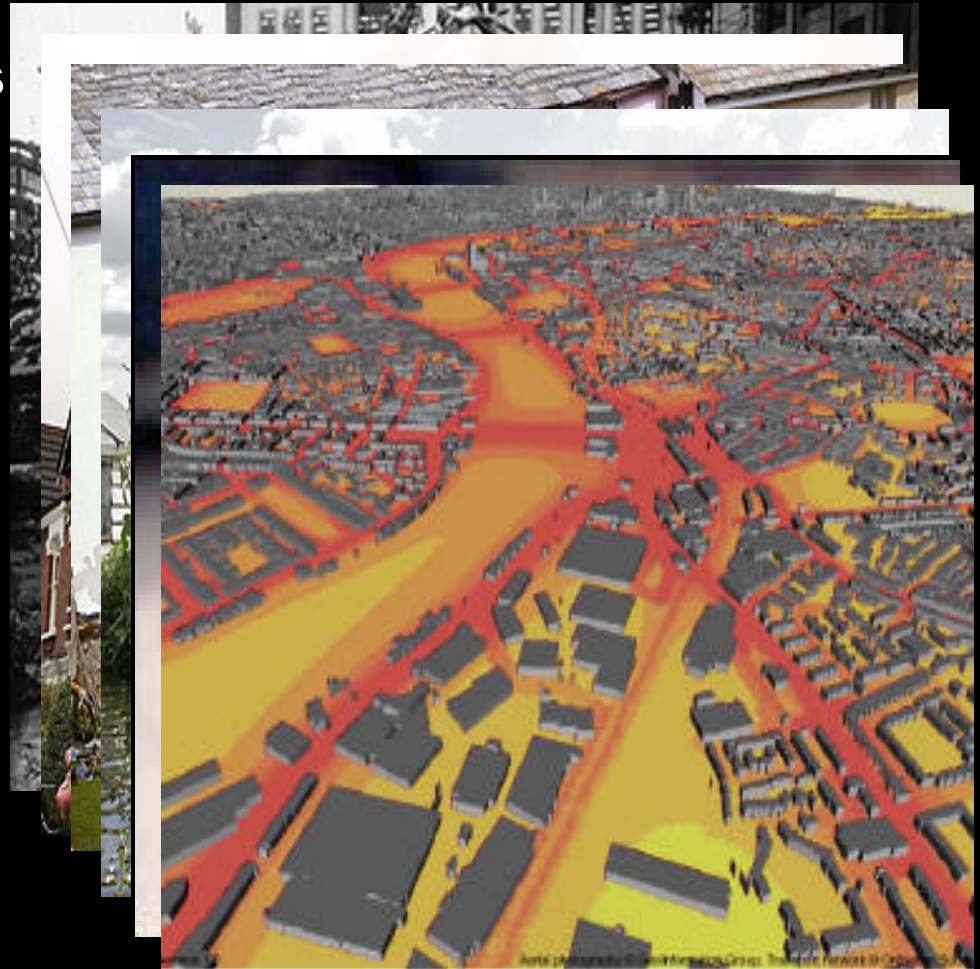


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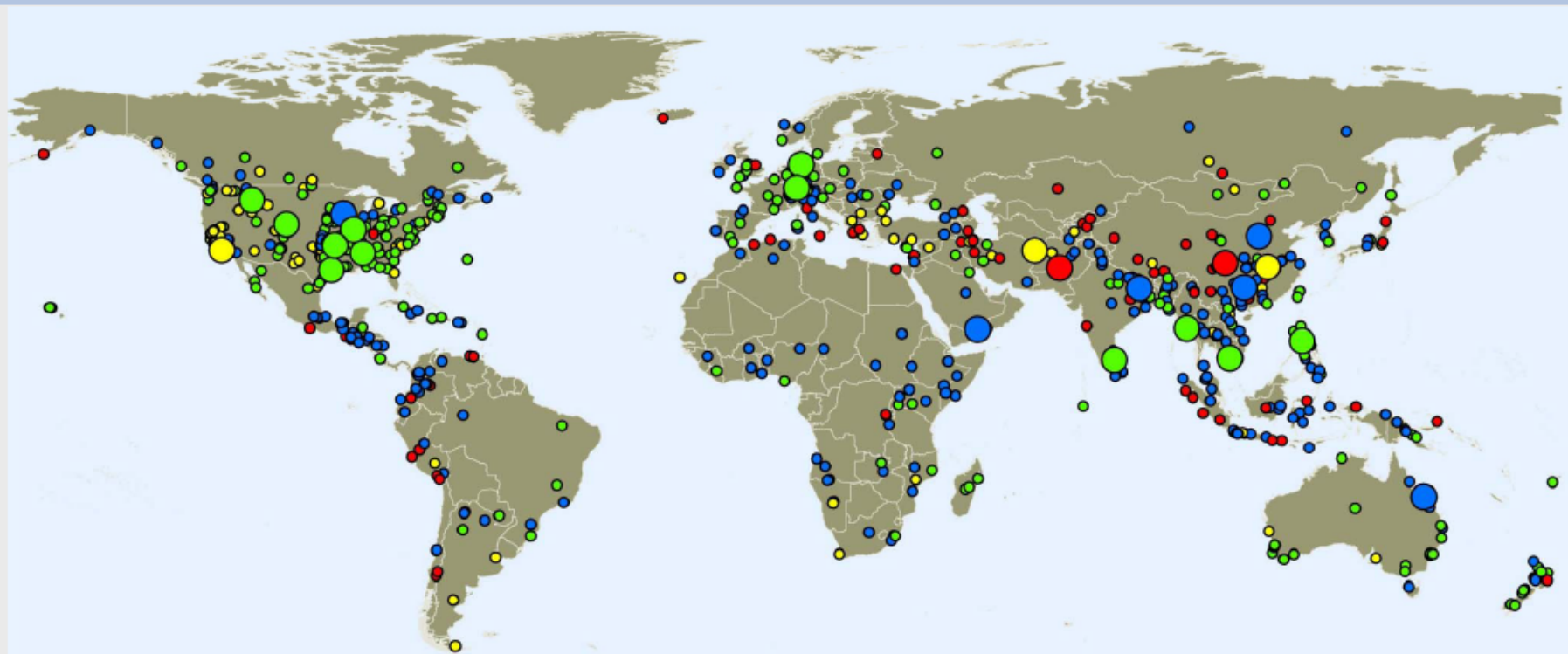
What are the drivers?

- In 2008 overall global losses attributed to natural disasters were \$200bn (Munich Re)
- Past 20yrs in the EU, 953 disasters caused \$269bn (floods 40% & storms 33%) losses & 88,671 deaths
- Compared to rest of the world, economic losses per capita due to population density
- 1-Stop Shop providing multi-hazard – E2E services
- Opportunity for a strategic partnerships to add value – integrating data / mapping & expertise for the customer



Natural disasters 2008

World map



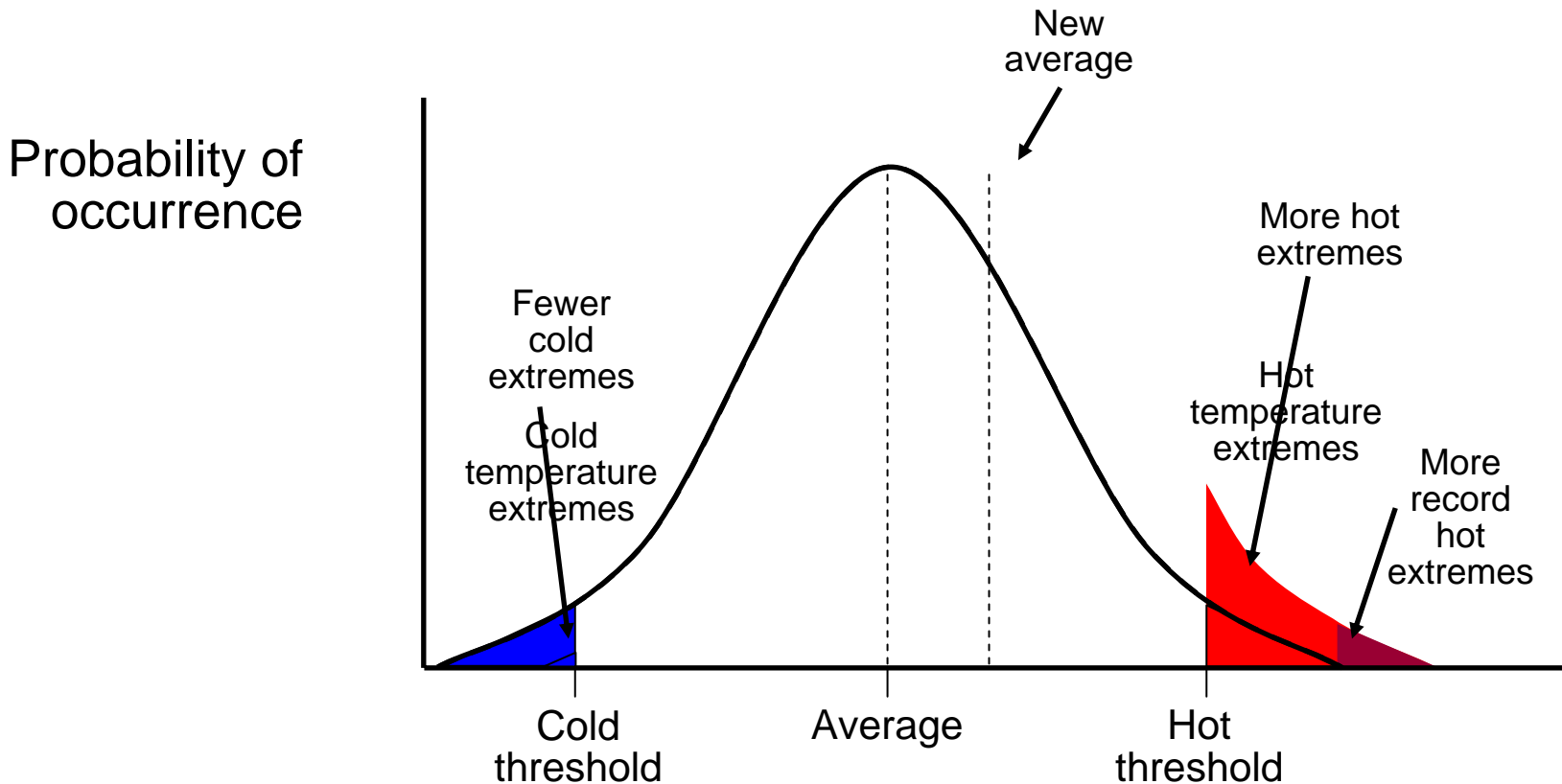
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As at: December 2008

- 750 natural hazard losses
- Costliest/Deadliest events

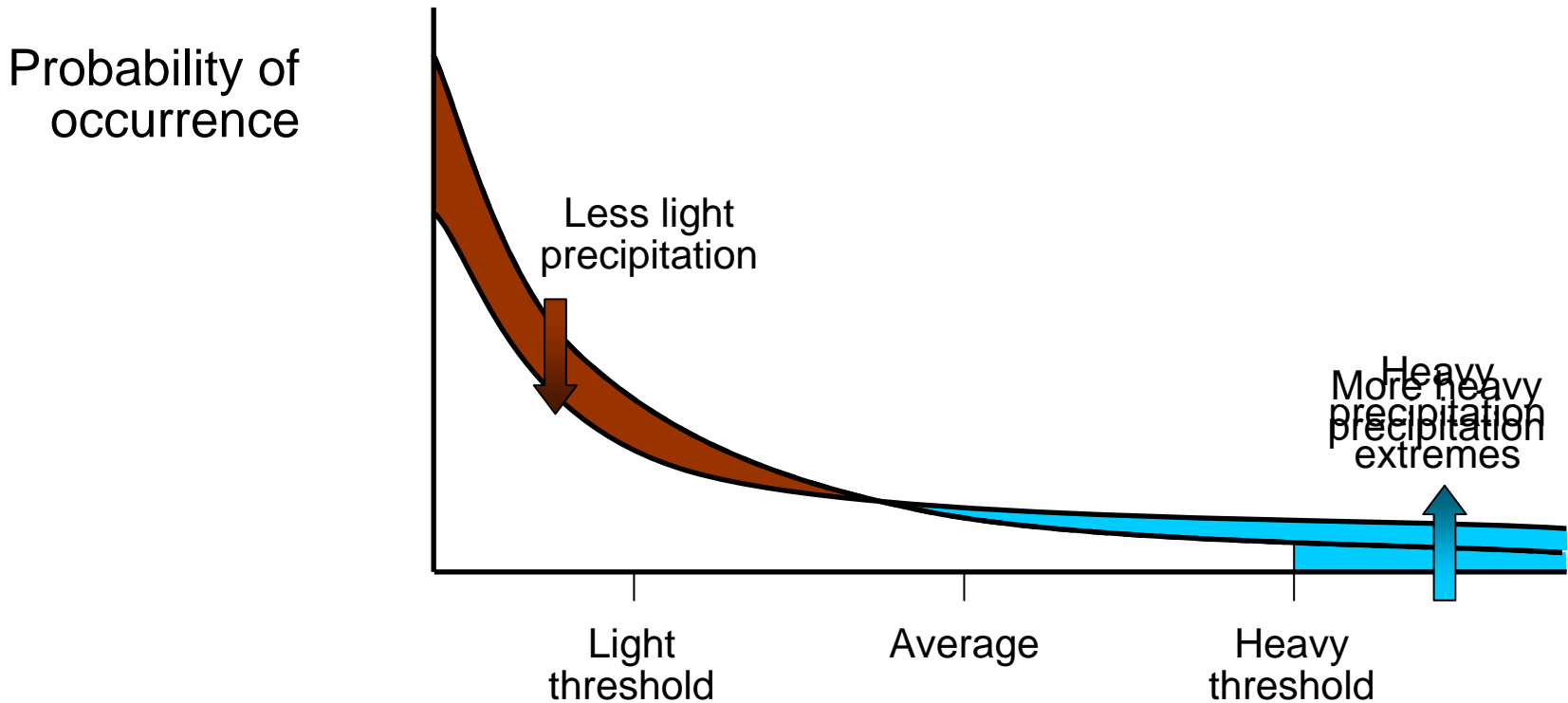
- **Geophysical**
(earthquake, tsunami, volcanic activity)
- **Meteorological** (storm)
- **Hydrological**
(flood, mass movement)
- **Climatological**
(extreme temperature, drought, wildfire)

Increase in probability of extremes in a warmer climate



(After IPCC 2007 & Karl et al. 2008)

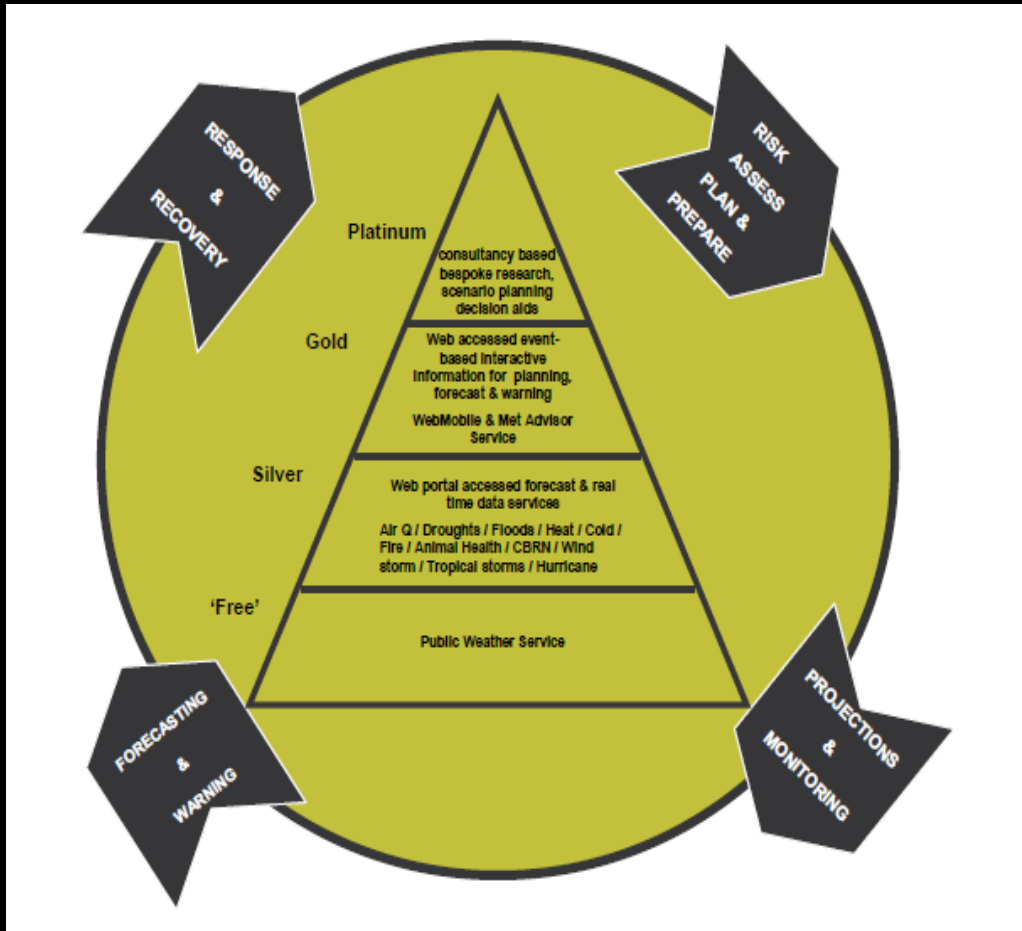
Increase in probability of extremes in a warmer climate



(After Karl et al. 2008)

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The Idea



The Hazard Ready initiative is exploring the potential for:

- Multiple natural & man-made hazard management services
- Life cycle of event management
- Strategic partnerships



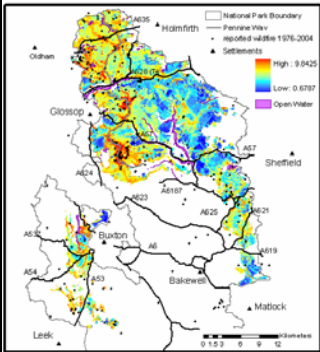

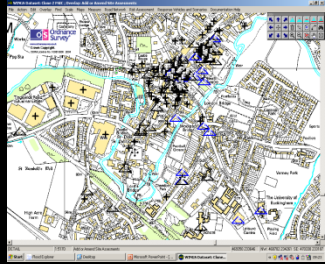

Hazard *Ready*[™] Potential Offerings

- One Stop-Shop for natural & man-made hazard services
- Basic information layer
- Value Added layers to inform vulnerability mapping
- Decision Aid Tools for planning & response
- Dependency Analysis to aid response & recovery planning
- Site or thematic bespoke risk assessment
- Specialist expert advice & interpretation
- Training
- Global capacity building

Hazard *Ready*TM Scenario - wildfires

“The best prediction to date suggests a 3-4C increase for the UK by 2040, this could equate to 120 000 additional wildfire calls across the country”

Source: CFA climate change conference

Risk, Assess and plan	Monitoring	Warning	Response
			
<p>Risk map of wildfire occurrence produced from multi-criteria modelling and past fire records</p>	<p>Satellite imagery coupled with geographical data layers and decision aid monitoring and detection tools ensures fast response times</p>	<p>Integrated into Fire service operational system the user is able to interact and overlay hazard ready services to produce bespoke, tailored warnings and impact assessments</p>	<p>Response is immediate and targeted. Information fed into a mobile data terminal available on the road or in the field will help the fire service get to the location on time.</p>



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Settings

Map Styles

- Hybrid
- Map
- Satellite
- Terrain

Map Controls

- Show Map Scale
- Show Overview Map
- Show Position Control
- Show Zoom Control

Map Effects

- Monochrome
- Reset
- Reset

Legend



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Real Time Hazards

- Air Quality
- Coastal Flooding
- Drought
- Earthquakes
- Forest Fires
- Locust
- Pluvial Flooding
- Tsunami
- Volcanoes

Active Alerts

Biological

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Thankyou

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