



Early Warning System – A Solution

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Early Warning System – Forecast



Primary hazard intensity

(like weather forecast, cyclone track forecast)



Secondary hazard intensity

(like flood flow and inundation forecast, landslide and avalanche forecast, cyclone wind and surge forecast)

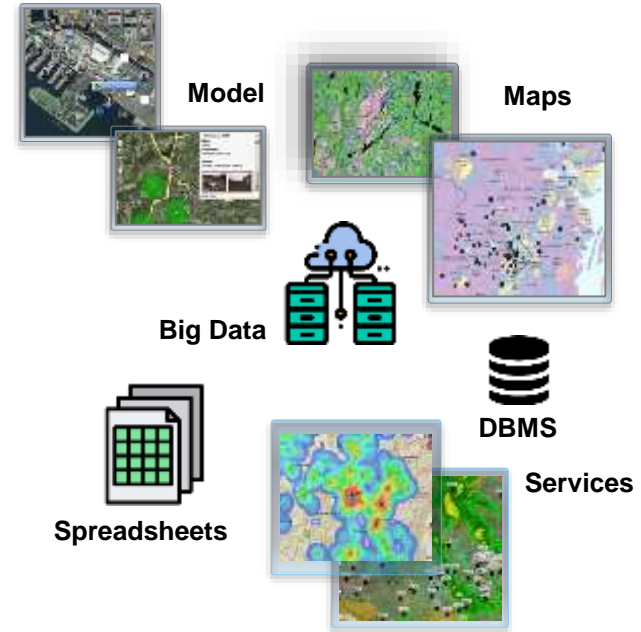
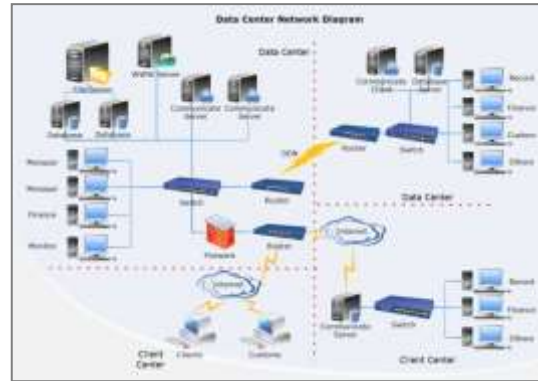


Impact severity

Based on hazard forecast estimates the potential impact on buildings, infrastructure and population

Early Warning System – A Solution

- Sirens
- Imagery
- Camera Feed
- Drones
- On Site
- Sensor Networks
- Social Media



Warning

COMMAND & CONTROL



Models Used in Forecasting



Numeric Models

- Weather models
- Hydrological and hydraulic models
- Cyclone wind and surge models
- Etc.



AI / ML Based Models

- Neural networks based models for landslide and avalanche
- Correlation and Regression based models
- Etc.

Early Warning Systems - A Key Tool to Reduce the Impact of Climate Change-induced Disasters

Moderator



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