



A real-world example of desired technical integration for situation monitoring

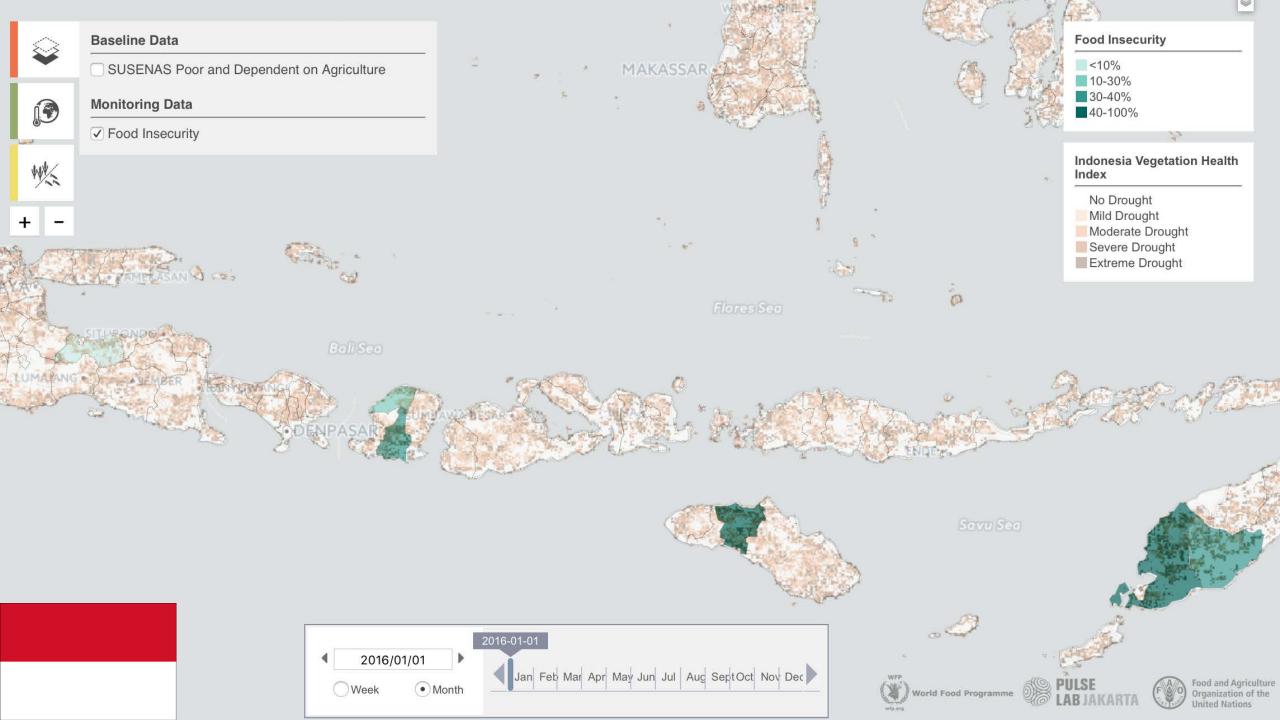
Beijing, China Oct.24 2017



What is PRISM?

Platform for Real-Time Information and Situation Monitoring (PRISM)

- A map-based platform that **monitors (near) real-time** weather/environmental conditions and their **impact on livelihoods and food security**;
- First pilot designed for the **2015 El Niño drought** in Indonesia
- Adopted by both Indonesia and Sri Lanka till 2017



What is PRISM?

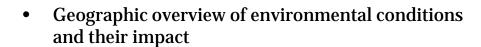


What are the impacts or potential impacts of weather/environmental conditions?











Rapid access to information and analysis

• Faster decision-making response

How does PRISM work?



 Automates data acquisition and processing

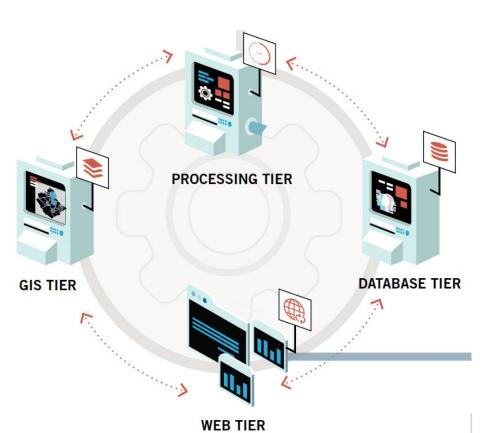








 Combines multiple data streams into single interactive framework





 Visualizes information and analysis on a multi-layer, interactive map

How does PRISM work?

Economic Vulnerability + Drought Exposure → Impact & Geographic priorities



- Poverty data
- Income Source



Meteorological drought

- Standardized precipitation index
- Rainfall anomaly
- # days since last rain

Agricultural Drought

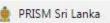
- Enhanced Vegetation Index
- Vegetation Condition Index
- Temperature Condition Index
- Vegetation Health Index



- Crop land (hectares affected)
- Distribution of affected population

Further link to...

- Market price data
- Disaster history
-







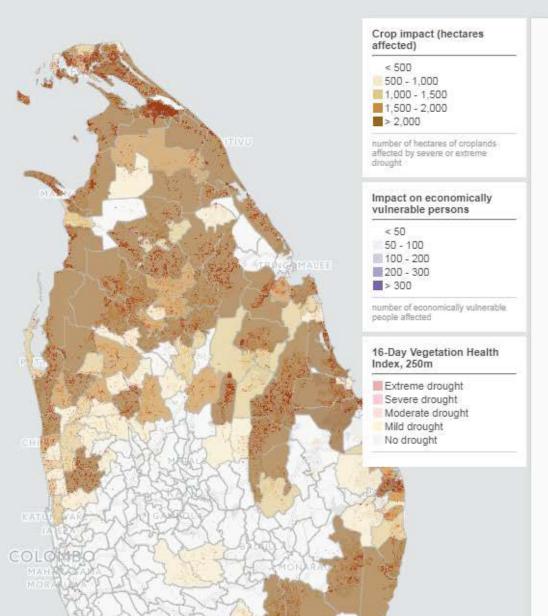


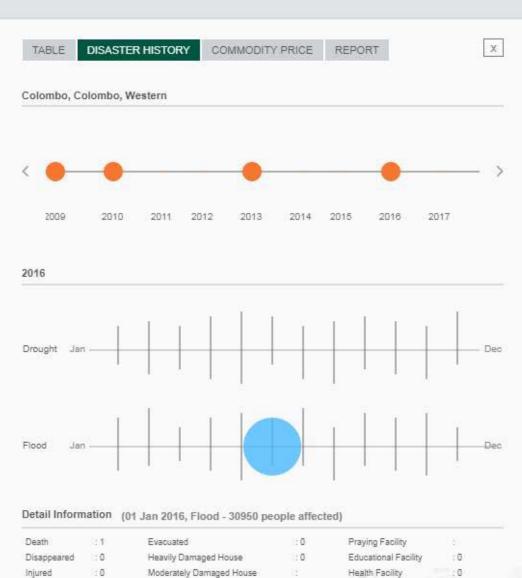


① 220.247.217.242/prism/









: 0

Crop Damages (ha)

Injured

Suffered

: 30950

Lightly Damaged House

: 0

PRISM: An integration

Multiple data sources integrated into one system

- 1 Satellite
 - GPM IMERG (Precipitation)
 - CHIRPS (Precipitation)
 - MODIS MOD11C3 (Land surface temperature)
 - MODIS MOD13A3 (Vegetation)
 - MODIS Croplands
- 2 Survey
 - Mobile data collection
- **3** Social Statistics
 - Poverty
 - Agriculture dependent
 - Disaster history
- 4 Crowdsource
 - Premise market price data

An integrated mindset to produce evidencebased knowledge

