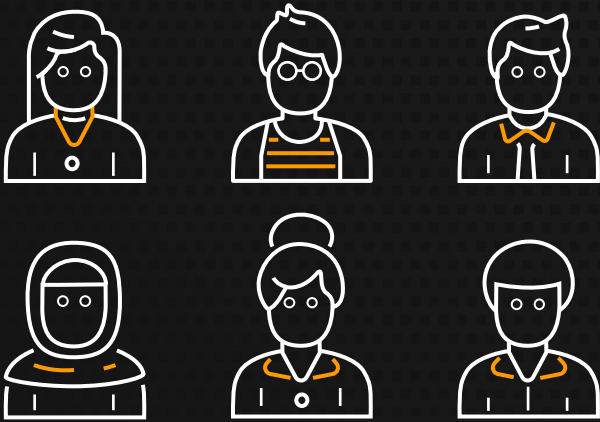


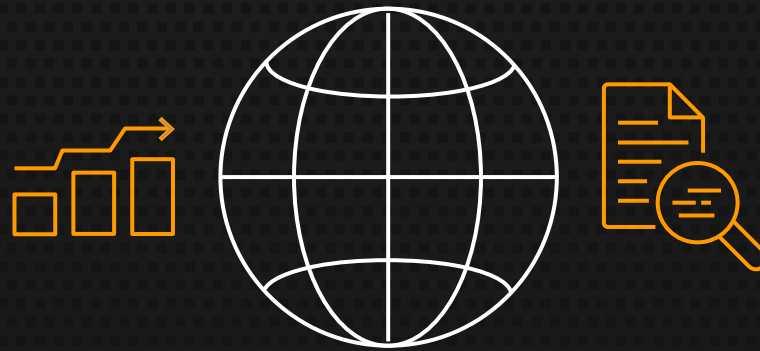


# AWS Disaster Preparedness & Response Program

# General vision of the AWS Disaster Preparedness & Response Program



People



Information

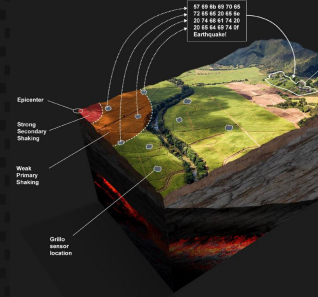


Technology

# The AWS Disaster Preparedness & Response Program has three pillars



## Innovation



## Resilience

PROJECT  
**RESILIENCE**



## Humanitarian Assistance

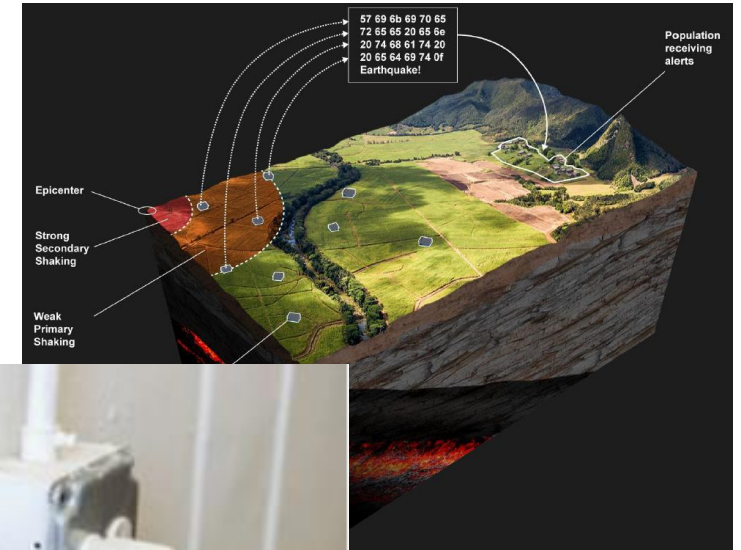
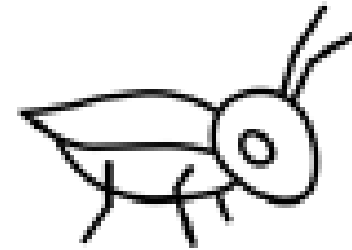




# Grillo

Earthquake Early-Warning Systems using IoT

URL: [Grillo.io](https://grillo.io)



# Flooding early warning system

Preparation, floods



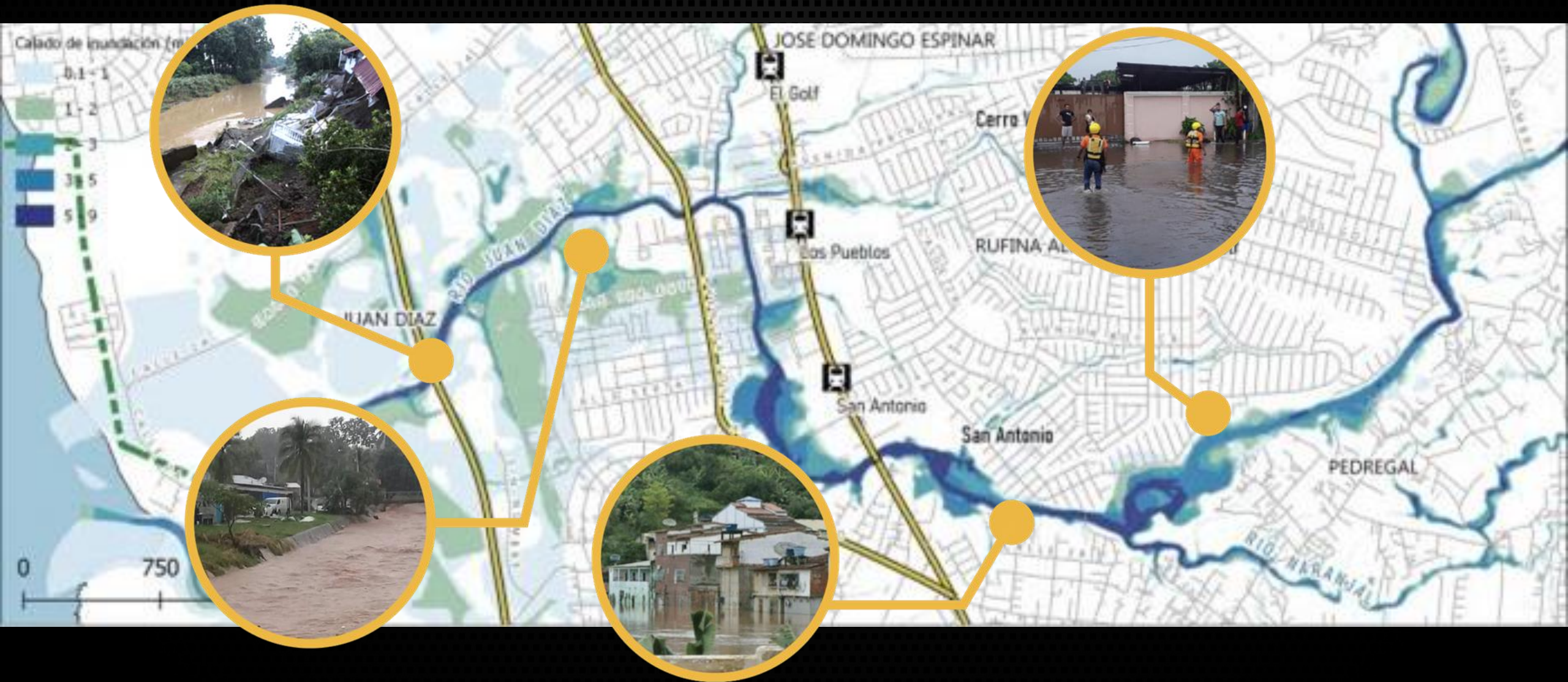
**MINISTERIO DE GOBIERNO**  
Sistema Nacional de Protección Civil



# Juan Díaz River

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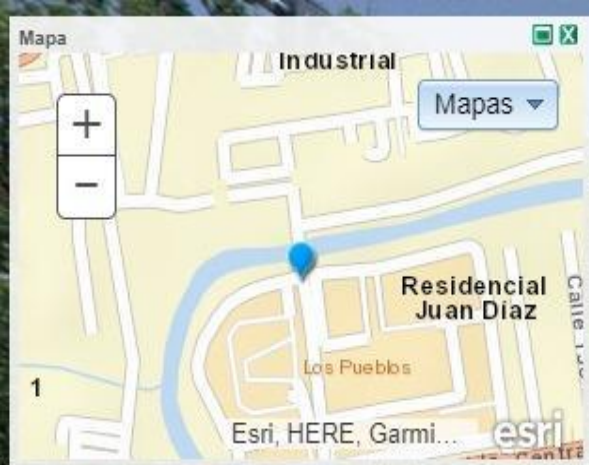




## Juan Diaz River

UNIDAD DE OBSERVACIÓN EN SOCIEDAD, AMBIENTE Y ORDENAMIENTO TERRITORIAL



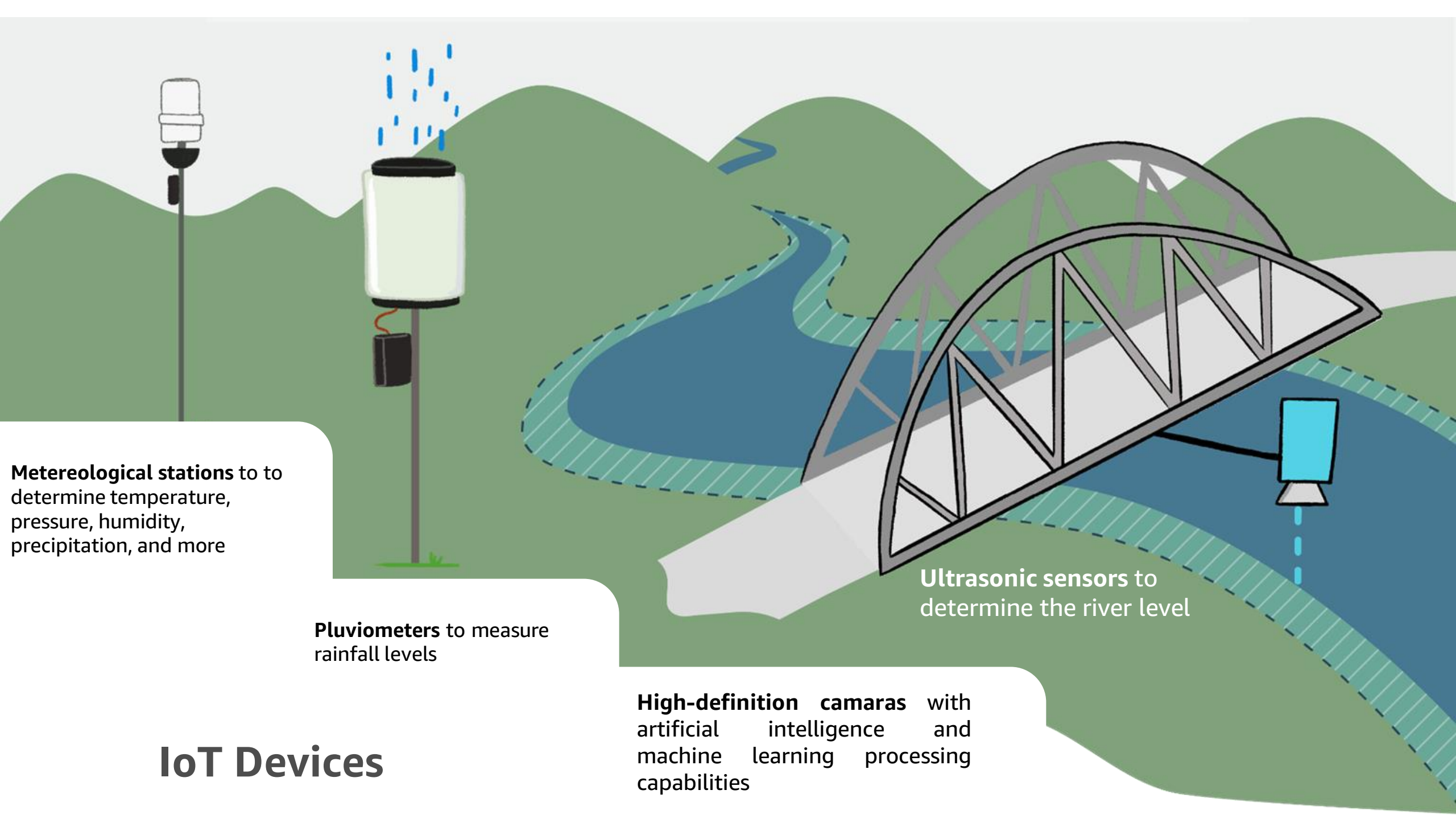




**Rainy season**







**Meteorological stations** to to determine temperature, pressure, humidity, precipitation, and more

**Pluviometers** to measure rainfall levels

**Ultrasonic sensors** to determine the river level

**High-definition camaras** with artificial intelligence and machine learning processing capabilities

## IoT Devices



# Pluviometers

## Ultrasonic sensors



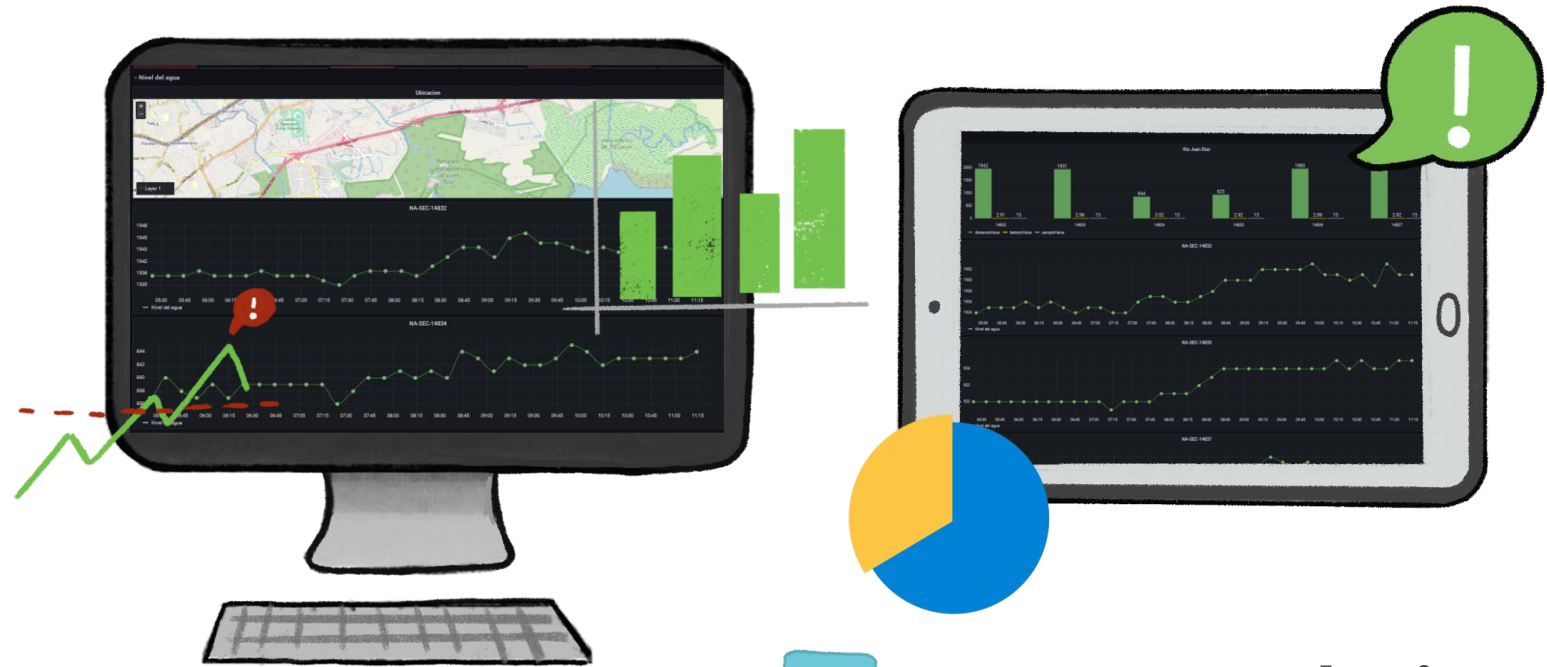
## Meteorological stations



## Gateways LoRaWAN



Dashboards allows us to perform these analyzes and visualize the data easily and quickly



## Data analysis

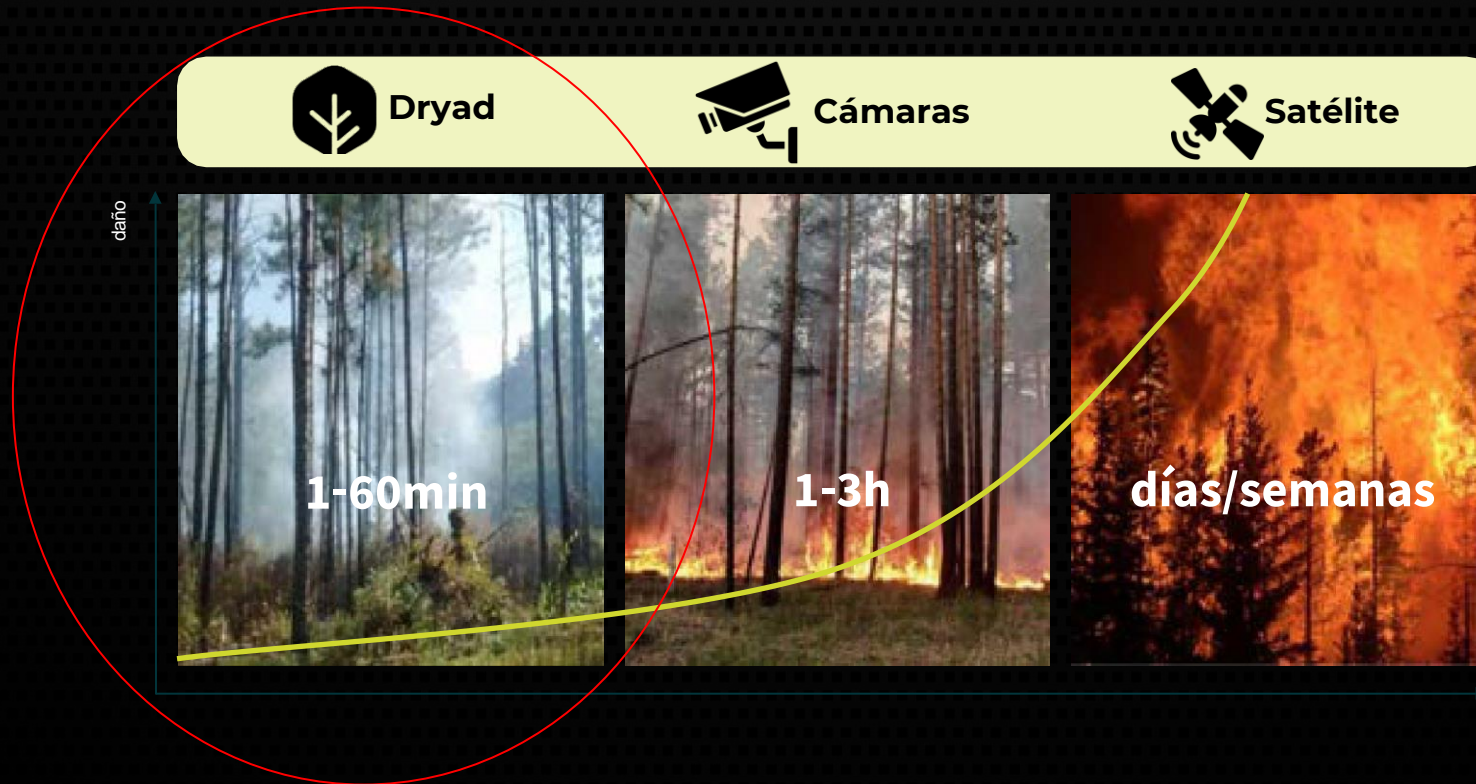
- **Predictive analyses** of the basin
- **Comprehensive study** of the city's water resources
- **Historical behavior** of the river
- **Informed decision making**



# Ultra-early detection of wildfires



# Time is critical





# Dryad Silvanet™



Sensors

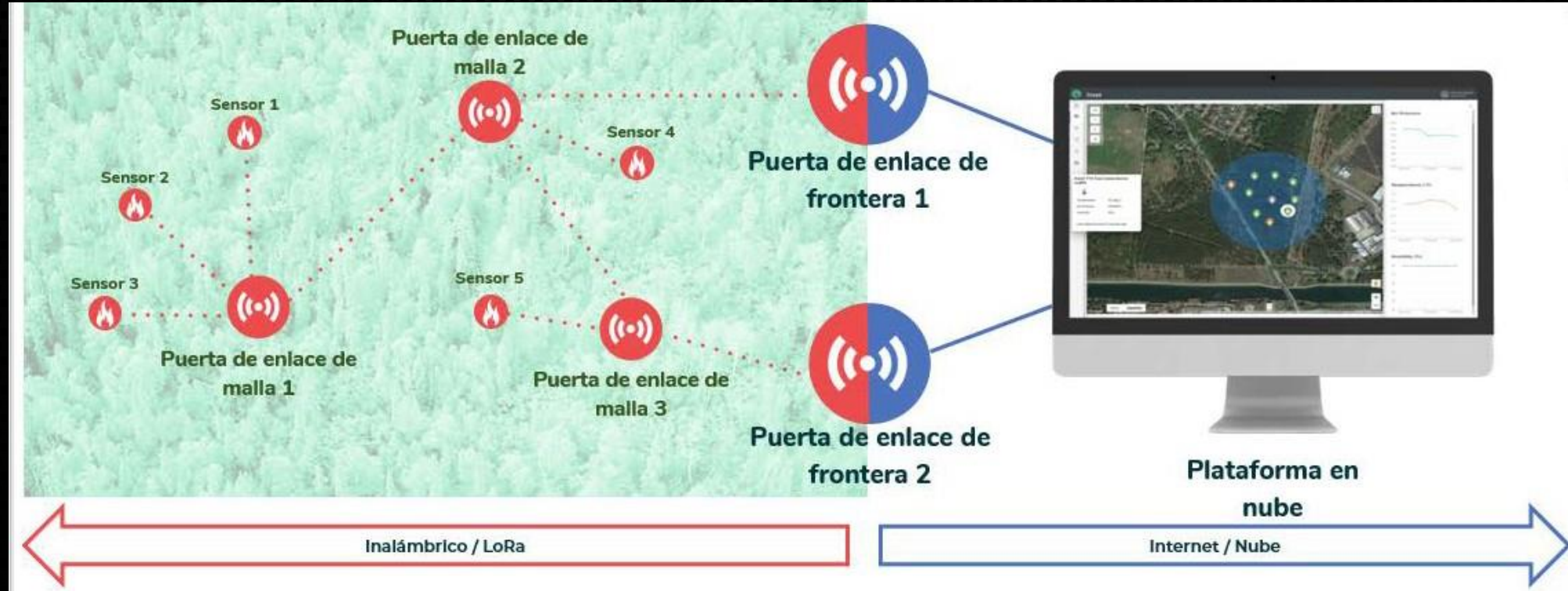


Gateway



Dashboard

# IoT Network





# The AWS Disaster Preparedness & Response Program has three pillars



## Innovation

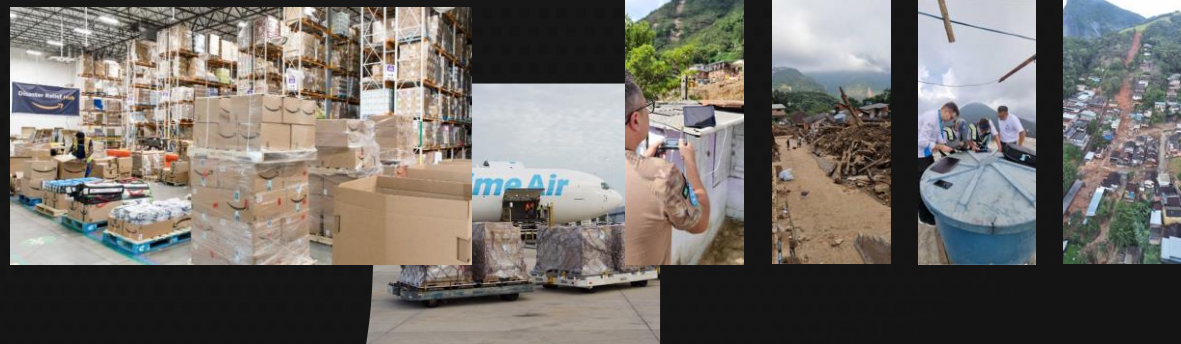


## Resilience

PROJECT  
**RESILIENCE**



## Humanitarian Assistance



# Chubut, Argentina.



***"We thank you for the support you have given us to overcome the challenging time we had after the attack on the Government House that caused the total destruction of our servers (...) if we have had to buy the equipment to replace and regenerate a structure today we would be still in the purchasing process"***

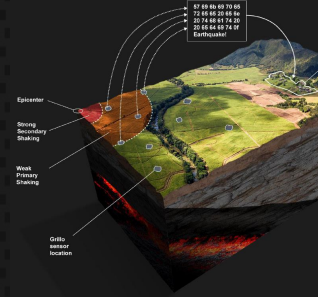
*Secretario de Gestión Pública & Modernización del Estado,  
Sergio De Cicco, June 2022, 6 months after the incident*



# The AWS Disaster Preparedness & Response Program has three pillars



## Innovation



## Resilience

PROJECT  
**RESILIENCE**



## Humanitarian Assistance



# Compute at the edge

Hurricane Dorian, 2019, Bahamas &  
Landslides, 2022, Petropolis (Rio de  
Janeiro), Brazil







# Thank you

Camila Saad

[saadcami@amazon.com](mailto:saadcami@amazon.com)