SAFE GROUND

CHALLENGE: Identifying Risk With Science + Communities

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TEAM: hackithicos

PROBLEMS
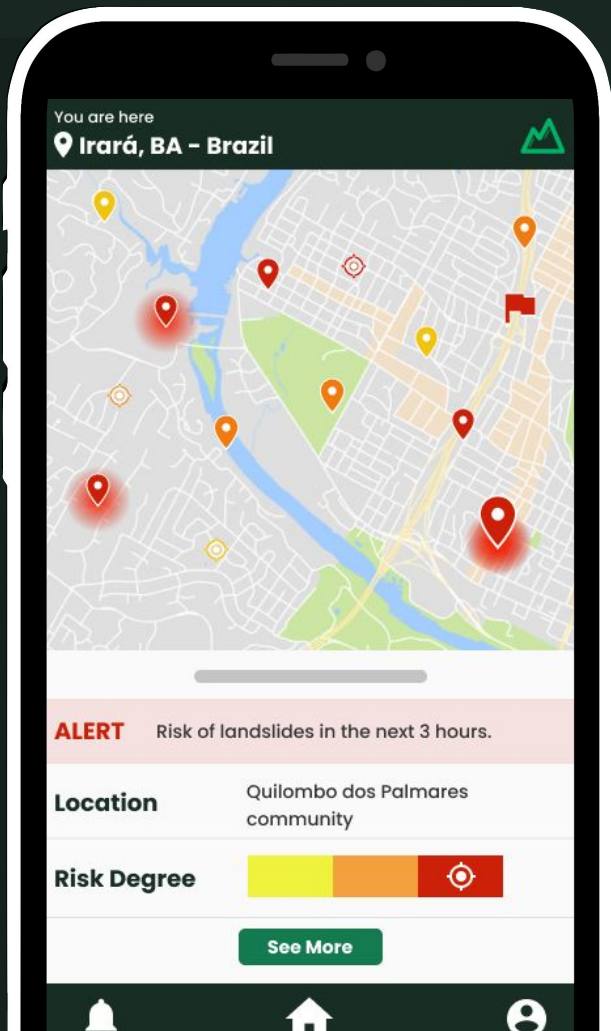
Landslides kill many people

Occurs worldwide

Interferes in the economy

Represents risks to communities

SOLUTION

Mobile app to prevent those problems
Collaborative
Real-time notifications
Self-training AI to estimate risks

Left phone screen:
- You are here
- Irará, BA – Brazil
- Location: Quilombo dos Palmares community
- Risk Degree
- Demographic Data
- 8.5 people per 8m²
- 1.200 people in a radius of 2km²
- Landslide History
- Registered on 12/20/2020 See More
- Registered on 29/11/2019 See More
- Registered on 05/12/2018 See More
- Action Area
- Make a report
- Register Incident

Middle labels:
- Register Incidents
- View the status of your location
- Landslide History
- Insert location

Right phone:
- USER EXPERIENCE
- Register Incident
- Reminder: Use this space only to make landslides related alerts.
- What happened?
- Tell us what happened.
- It was today?
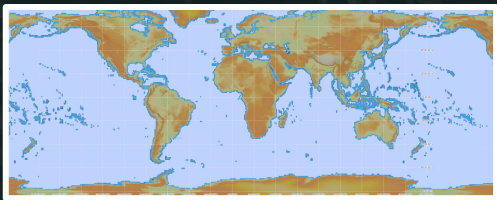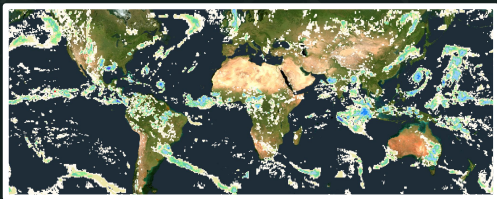- Yes No
- Date of Occurrence
- Is it happening now?
- Yes No
- Provide us the incident location
- Insert
- Finish

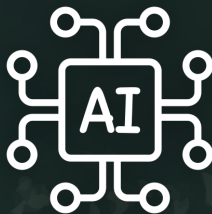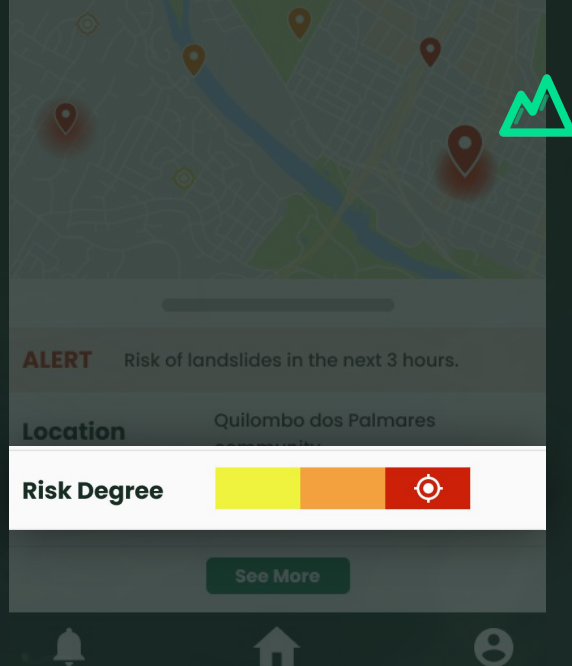
HOW?

Jaxa Alos Satellite

NASA Landslide Viewer

→

AI

Neural network techniques and cross correlation coefficients to establish the crossing of data

→

ALERT Risk of landslides in the next 3 hours.

Location Quilombo dos Palmares

Risk Degree

See More

Generates predictability of places with potential risks

History of Landslides

Interaction with Government Agencies

BENEFITS

Can save many lives

especially in rural areas and communities

Everyone learns

about risks prevention

Reduces impact on the economy

when preventing incidents

Helps local governments

detecting risks and warning them

WHAT'S NEXT

Develop a software platform together with the app for responsible government agencies to have an overview of the affected areas and take actions.

Form partnerships with companies that support the cause.

MOTIVATION

We are motivated to solve this problem mainly because it affects the favelas (poor communities) in Brazil and other communities in the world.

We think that this project should be noted primarily for helping to prevent risks in rural areas and save lives in communities.

hackithicos