

HABITAT

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Current Situation

Australia is facing one of the worst wildfires seen in decades, with large areas of the country devastated

Wildfires are one of the unpredictable effects of global warming which require urgent prevention and control measures



Our Solution

Habitat is a web app which helps people and authorities with wildfire prevention and quickly take actions to control wildfires



Prevention

Habitat uses NASA's Water Vapour (1 month - TERRA/MODIS) data to identify dry areas prone to wildfires

Authorities and citizens can use the map on the admin page to be aware of possible wildfire locations and be ready for evacuation of people and animals



Wildfire Reporting

Habitat provides a platform for citizens to report new wildfires along with the exact location, time and date

Authorities are alerted through the app and they can check the new wildfires reported on a map and take necessary actions for management

Once the wildfire is taken care of, it can be marked as resolved



Data & Technologies used

Back-end: PHP

Front-end: HTML, CSS, Bootstrap Framework

Database: MySQL

Map plotting: OpenStreetMap and Plotly.js

Humidity Map: NASA Water Vapor (1 month - TERRA/MODIS)



Thank you!

