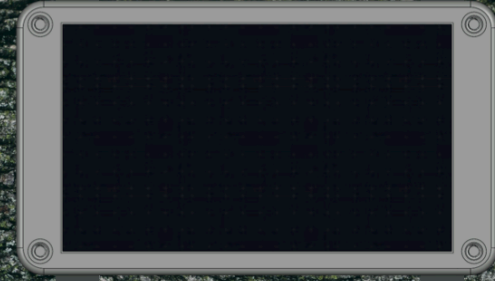


Early Wildfire Detection Device

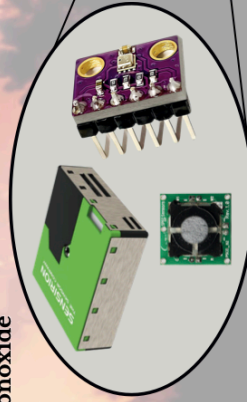
The Devastation of Wildfires

Wildfires cost the US upwards of \$800 billion annually, emit over 6 billion tons of carbon dioxide every year and bring devastation to communities. Due to increasing population and decades of inaccurate fire suppression approaches, fire seasons are becoming longer, deadlier and more likely. Wildfires often go undetected, spreading beyond controllability, endangering lives and incurring costly damages. Detection time is critical for a quick response time.



Fast Detection

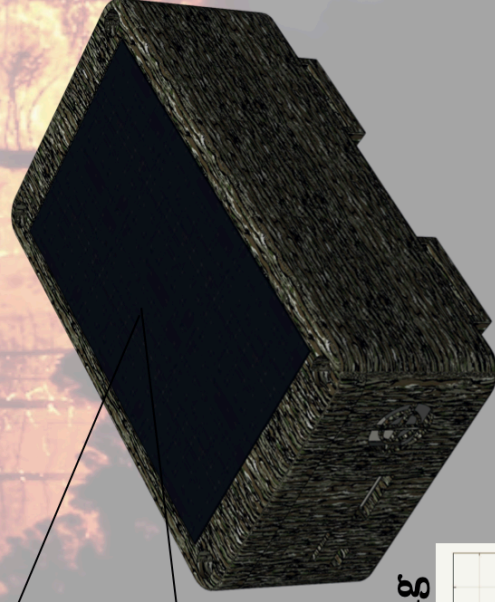
Combination of sensors:
 Temperature Humidity and Pressure
 Particulate Matter
 Carbon Monoxide
 Intake Fan



Our Solution

High Accuracy
 Dual CO and PM Sensing
 Forced Airflow

Built to Last
 Low maintenance
 Designed for harsh environments
 Solar Powered

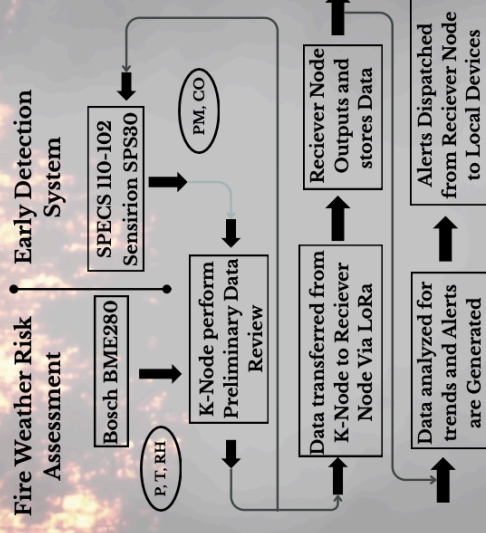


The Gap

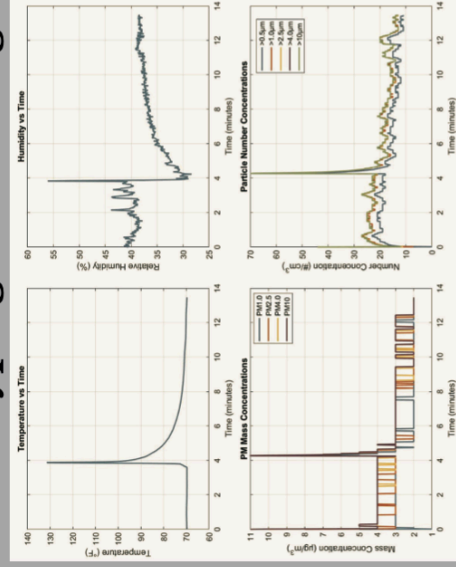
Current detection systems, such as satellites, aircraft imaging, and camera networks, are unable to consistently detect early-stage fires. Detection gaps arise from resolution limitations, poor visibility, and delays in reception. While newer fire sensing devices are beginning to be implemented throughout forests for early detection, no device comprehensively combines early combustion sensing with fire-weather monitoring or dual CO and particulate matter detection to minimize false alarms.

Efficient Communication
 Long Range radio communication
 Alerts with location
 Sensor data transmission

Implementation



Prototyping and Testing



Finding Fires Faster.
kōdama