WILDFIRE DETECTION AND MONITORING

CITIZEN ENGAGEMENT

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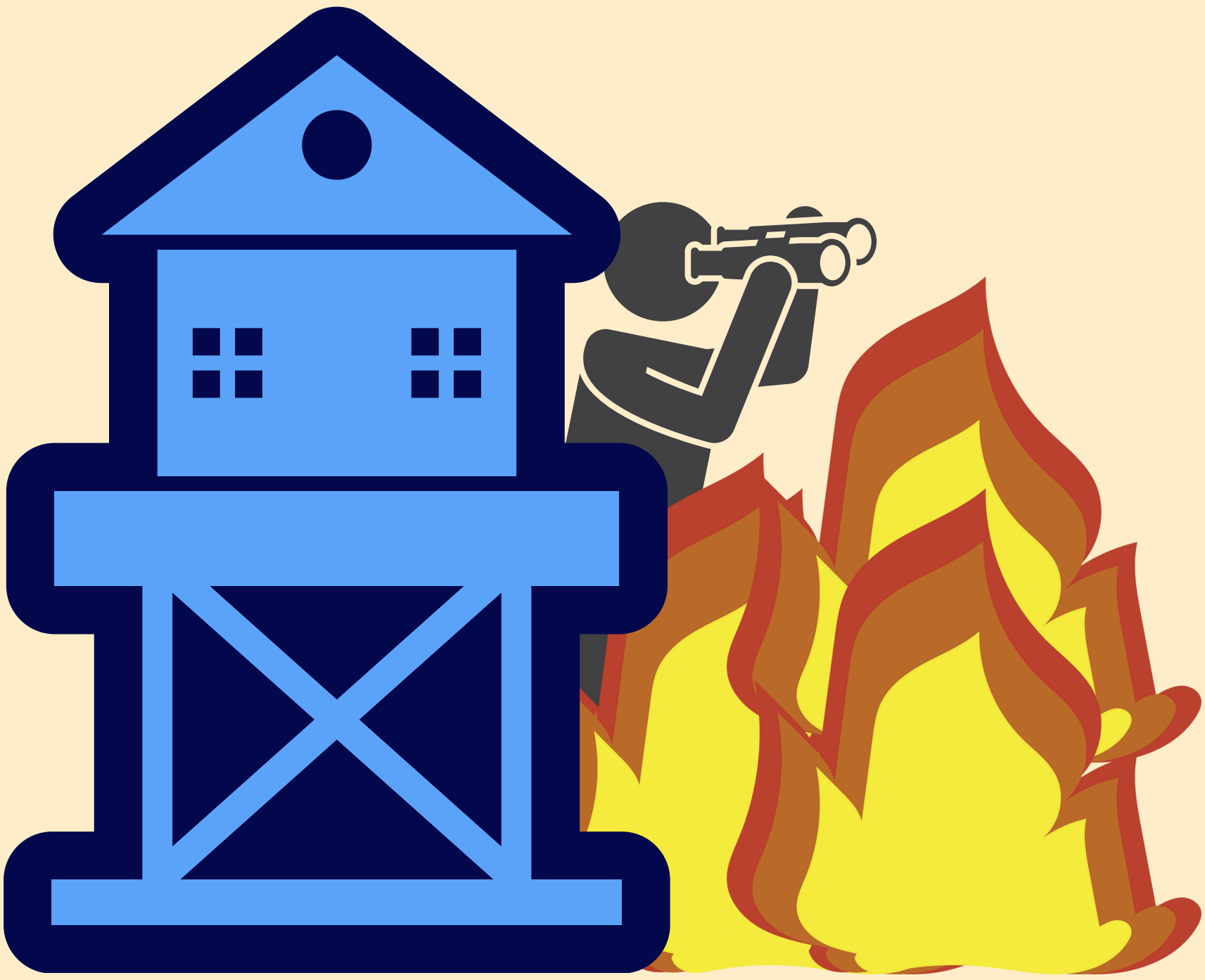
EARLY WARNING SYSTEMS

Remote Sensing

Using satellite imagery, drones, and aircraft to detect wildfires early and monitor their progression.

Fire Lookout Towers

Installing lookout towers in strategic locations to spot and report wildfires quickly.

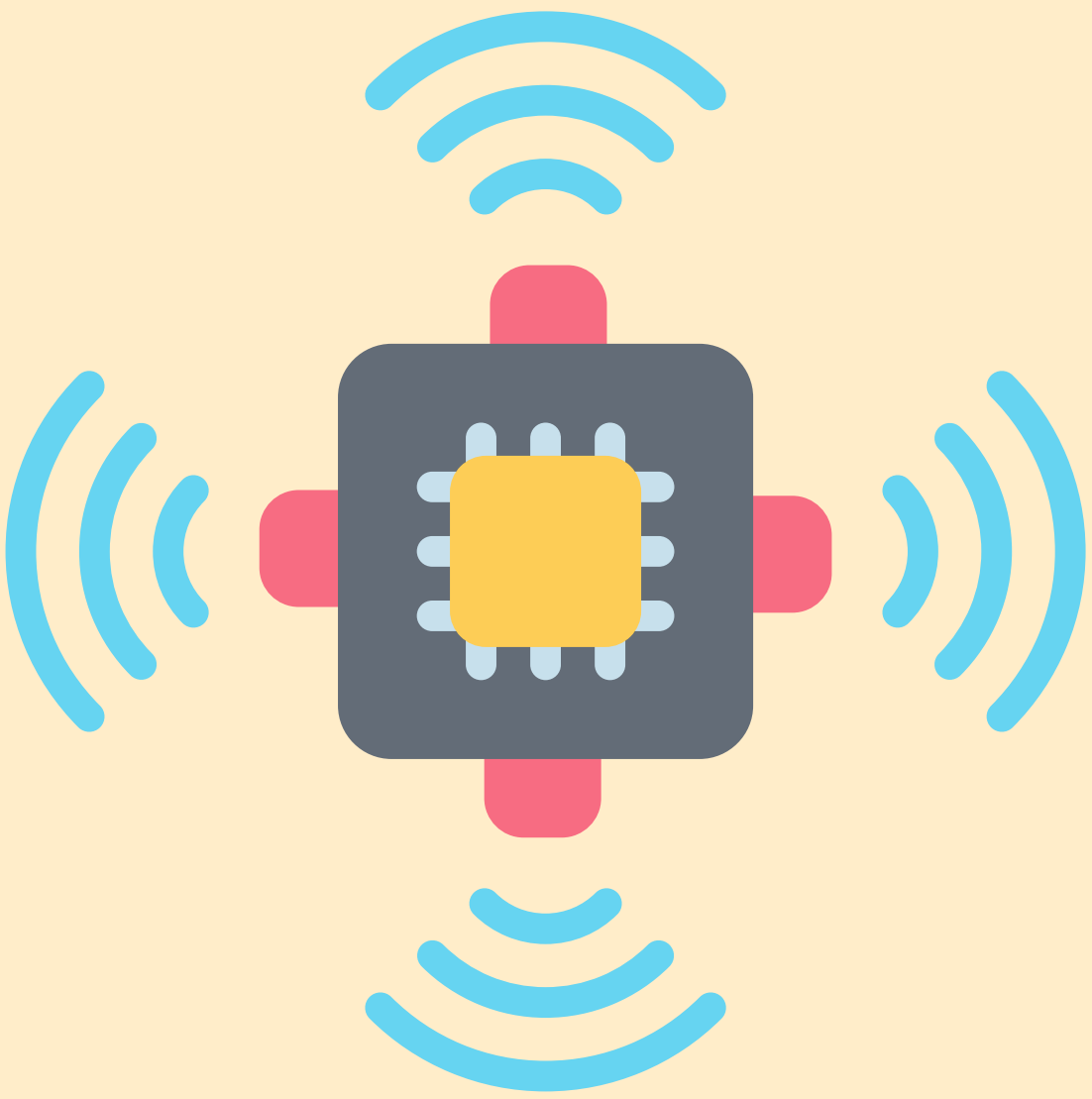


Fire Weather Forecasting

Monitoring weather conditions, such as temperature, humidity, and wind speed, that influence fire behaviour to predict wildfire risk and inform firefighting units.

Ground-Based Sensors

Networks of sensors placed in forests or high-risk areas detect changes in temperature, humidity, and smoke. These sensors can trigger alerts when conditions indicate a fire may be starting. Remote cameras on towers or mountaintops provide continuous visual surveillance of fire-prone areas.



Social Media and Crowdsourcing

Modern wildfire detection also relies on crowdsourcing through platforms where individuals report fire sightings or unusual smoke activity. Authorities can act on these early reports for quick response.