Data Integrated UAV for Wildfire Management



Wildfire Response

- Improve detection to assist coordination
- Low smoke provide
 Arial imaging of situation
- High smoke locate the front of the fire

Application

- 1 drone per Fire
 department along with
 a support hub
- Data collected through sensors will used to identify crucial trends

Impact

- Improve response time
- Increase firefighter safety
- Efficient management of fire control

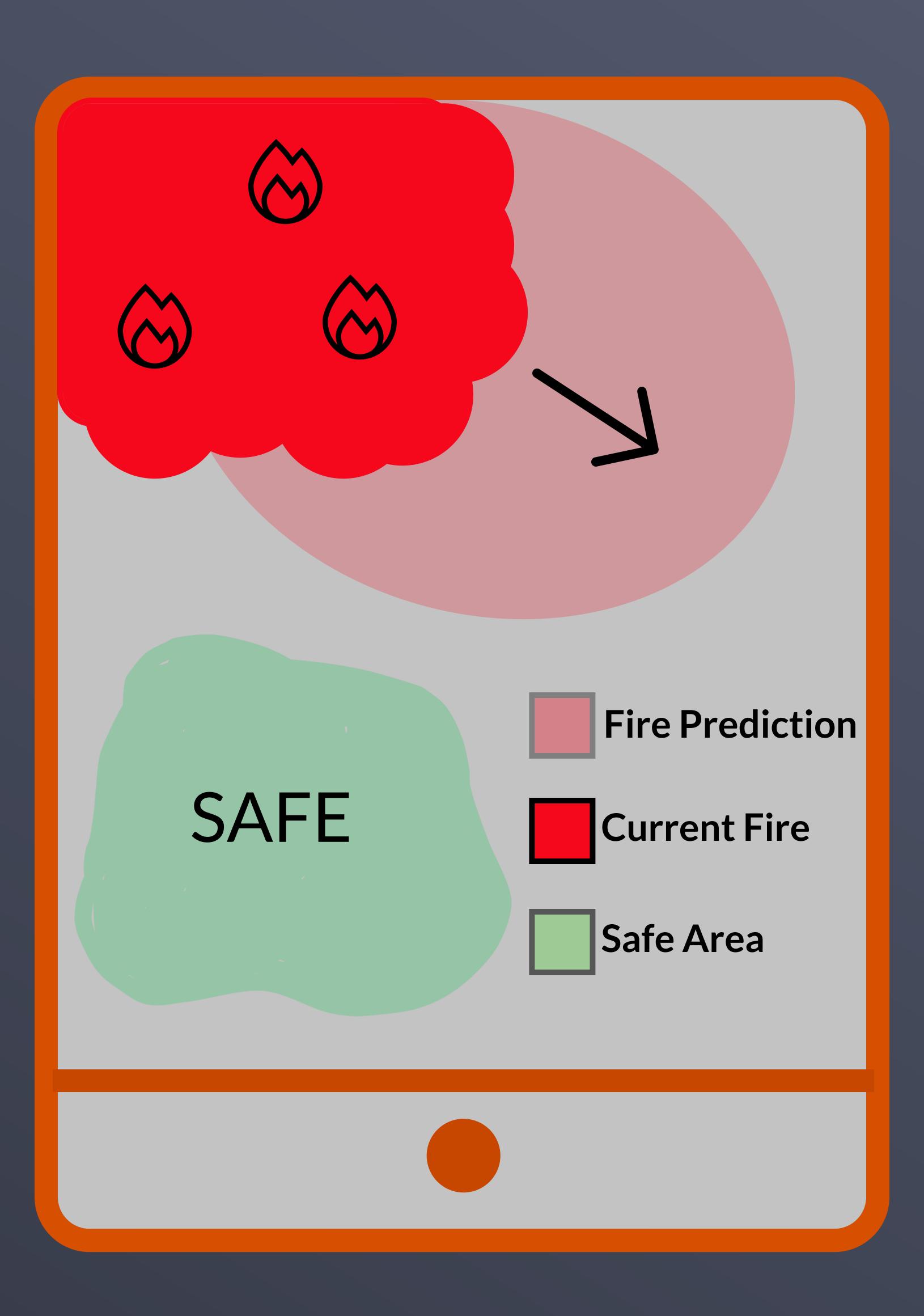
Technology

Data simulation & prediction anaylsis

 Use multispectral imaging and/or disposable sensor data to map fire paths and behavior

Long distance drone

- Multispectral imaging
- Payload capable
- Vertical take off & landing
- Max speed: 74+ mph
- 10+hrbattery



Return on Investment for Fire Departments



Saving time - potentially lives



Prevent infrastructure/environmental damages



Decrease time at the emergency scene



Year-round use - locating & delivering packages for people in need

Disposable fire detection sensors

- Local temperature sensor
- Microcontroller
- Radio transceiver (Bluetooth)





2024

Drone & camera

technology ready

Begin developing

2029

Begin testing drone + sensor system, begin analyzing data received from basic testing

2034:

Applying analysis methods to realtime scenarios, system integration with fire departments, cross agency communication established

2035:

Full technology
integration and use in
real wildfire scenarios



sensors