



AWS  
re:Invent

**STG352**

# Edge computing in disaster response with Snowball Edge

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Amazon Web Services

# Agenda

Introduction

Demo

Architecture overview

Whiteboard discussion

# Introduction

# AWS Snowball Edge

Petabyte-scale hybrid device with onboard compute and storage



## RE:INVENT 2016 LAUNCH

- 100 TB local storage
- Local compute equivalent to an Amazon EC2 m4.4xlarge instance
- 10GBase-T, 10/25Gb SFP28, and 40Gb QSFP+ networking
- Ruggedized and rack-mountable



# Camp Fire

November 07, 2018

02:26:34 PST

Duration: 1d 17h

## Overlay Layers

Maxar Open Data

Updated:



VIIRS Fire Data

Updated:



Fire Boundary

Updated:



Reported Events

Updated:



## Base Layers

MODIS Aqua

Updated:



Open Street Maps

Updated:



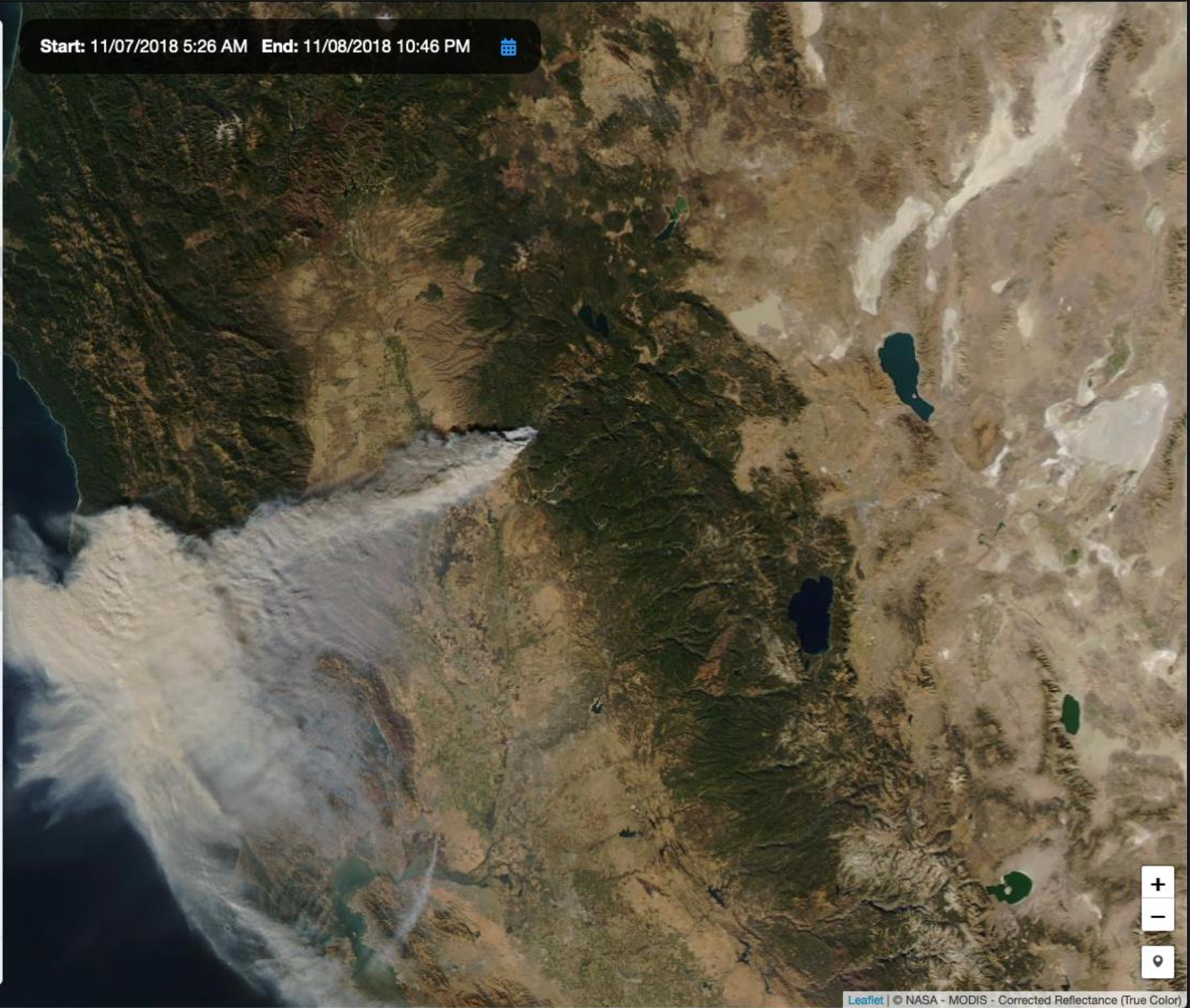
+ ADD NEW DATAPOINT

↻ SYNC

Last update: 1 hour ago

⚙ Settings

Start: 11/07/2018 5:26 AM End: 11/08/2018 10:46 PM



Leaflet | © NASA - MODIS - Corrected Reflectance (True Color)



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⚙ Settings

Start: 11/07/2018 5:26 AM End: 11/08/2018 10:46 PM

**Missing Animal** 39.79753, -121.59081

**Name:** Fido  
**Species:** Canine

**Notes:** Missing since evening of 2018-11-07  
**Contact:** (555) 324-1235  
**Reported:** 2018-11-08 05:43:44  
**Reporter:** [REDACTED]



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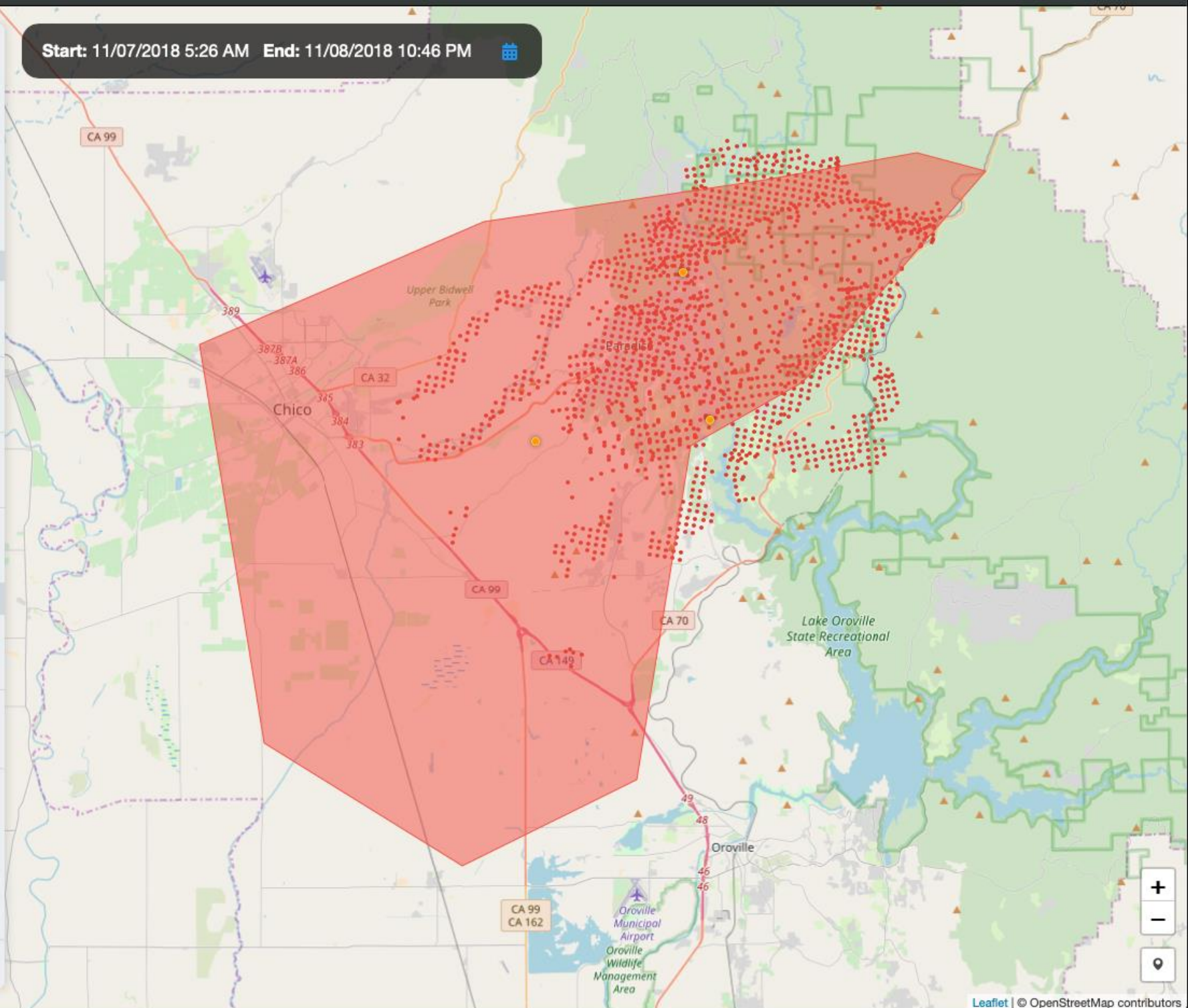
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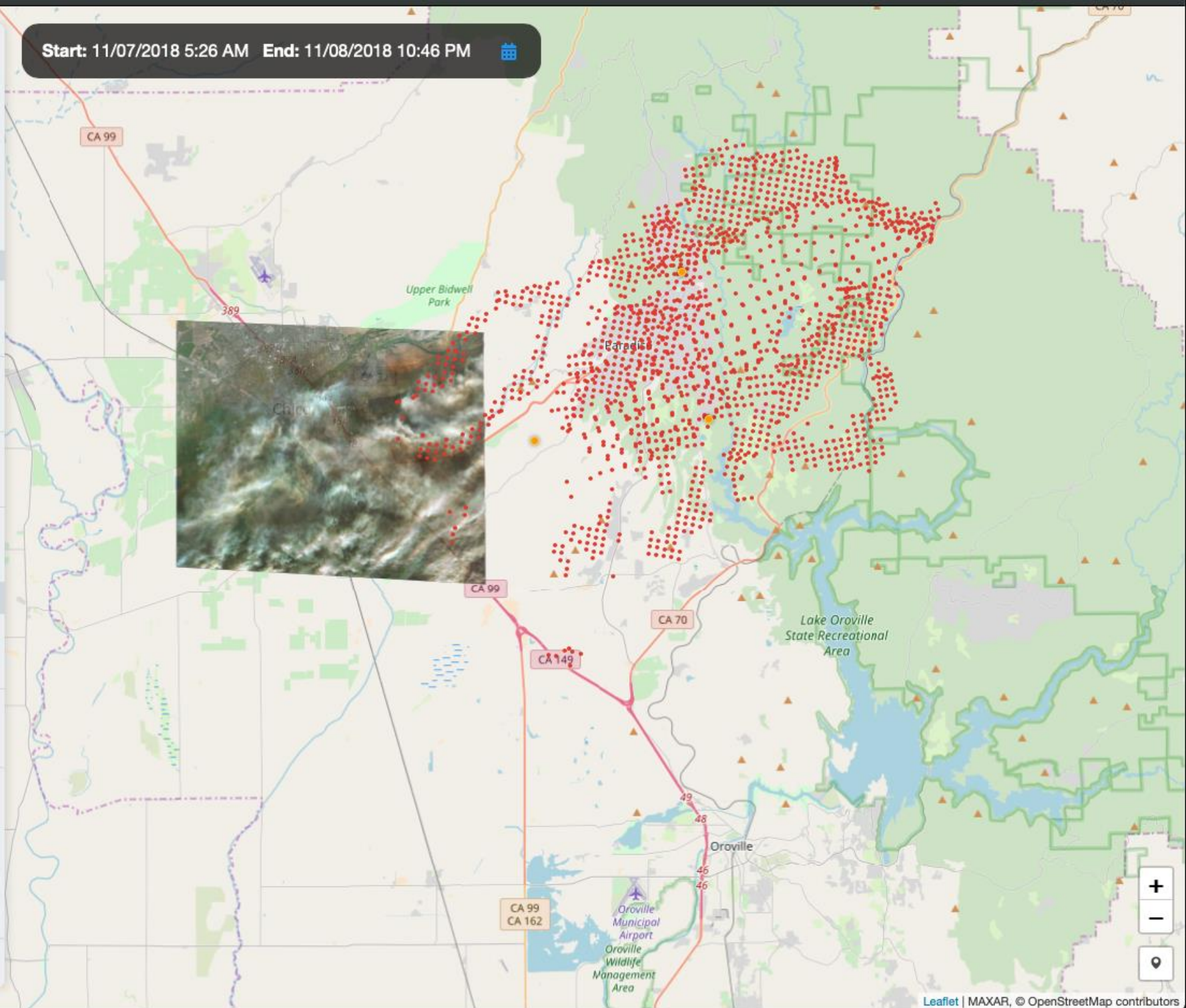
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⚙ Settings

Start: 11/07/2018 5:26 AM End: 11/08/2018 10:46 PM



### Event

☐ Missing Person

☐ Missing Animal

Reporter

Time of Event

2019-10-17T22:17

Lat

39.7295

Lng

-121.634

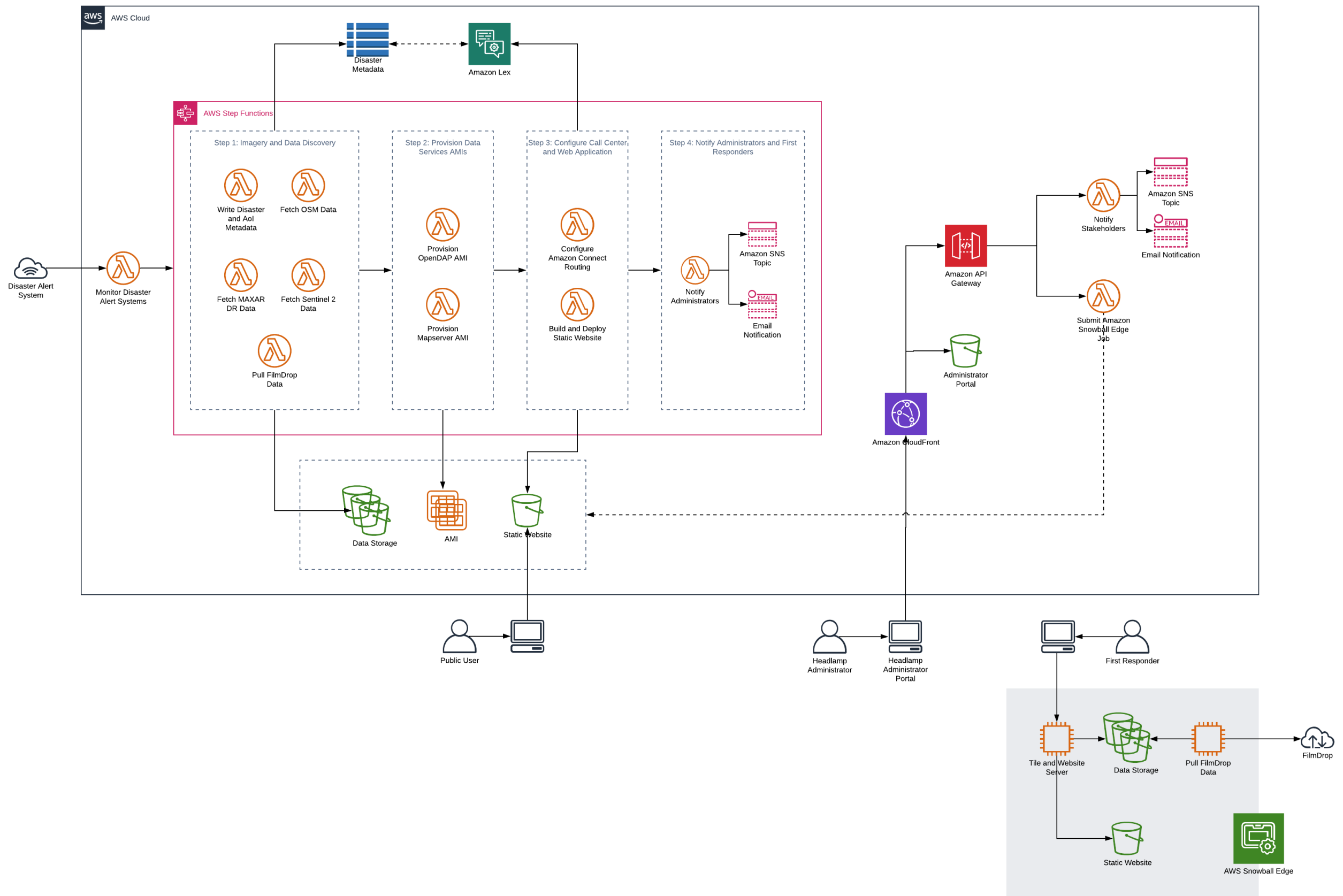
SUBMIT



# Demo

# Architecture overview





# Whiteboard discussion



# Thank you!

**Dan Pilone**

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**Jeremiah Dunham**

dunham@amazon.com



Please complete the session  
survey in the mobile app.