



StormCenter Communications





NASA Moraga-Orinda Fire District Project

Principle Investigator: Dave Jones

Phase I: Address 5 Key Pillars (Study)

Phase II: Execution of Findings

SBIR Technology Implementation



Partner

Tactical Fire Remote Sensing Advisory Committee November 29-30, 2022 Virtual Meeting













StormCenter Communications



5 Key Pillars

- Establish an instance of GeoCollaborate to build capacity and engage users
- Local outreach and capacity building within Moraga-Orinda Fire District;
- Assess data & needs within the Moraga-Orinda Fire District;
- Determine what needs to be done to increase local capacity in wildfire community
- Establish an ESIP Wildfire Cluster

Establish ESIP Wildfire Cluster

Determine How to Build Local Capacity

Assess Data Needs within District

Local Outreach & Capacity Building

GeoCollaborate Real-Time Cross-Platform Sharing









January 2023

Wildland Fire Collaboration

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ESIP Wildfire Cluster

Any community working on proactive wildfire management approaches

Any agency or org that has an interest in proactive wildfire management

Monthly meetings (virtual)

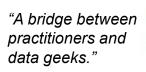
Applying geospatial tech, Al, ML for rapid testing & dissemination

Establish ESIP Wildfire Cluster

ESIP Wildfire Cluster Napkin Drawing

























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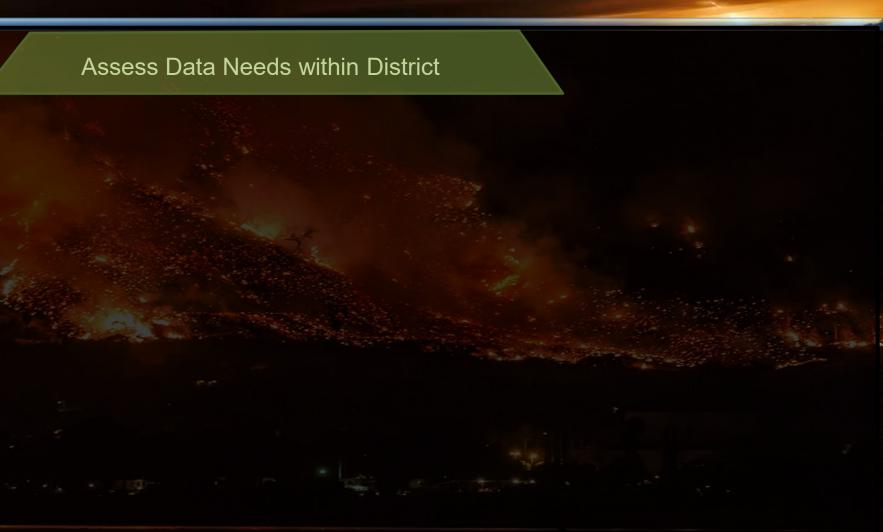


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Assess Data Needs within District



- What data is being used currently?
- What data is not available to all?
- What data would be useful?
- What data challenges exist & why?
 - Understanding
 - Timeliness / Latency







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Local Outreach & Capacity Building GeoCollaborate Real-Time Cross-Platform Sharing













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Local Outreach & Capacity Building

- How can we can improve outreach and user engagement?
- How can we best provide MOFD with the right data at the right time across the same platform collaboratively?
- Can we engage the community through existing trusted channels?
- Can the community access and trust the data?





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INFORMATION SOURCE













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building within Moraga-Orinda

Fire District:

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5 Key Pillars

- Establish an instance of GeoCollaborate to build capacity and engage users





















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5 Key Pillars

 Establish an instance of GeoCollaborate to build capacity and engage users

building within Moraga-Orinda

Assess data & needs within the Moraga-Orinda Fire District:

Determine what needs to be

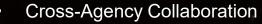
done to increase local capacity in

Establish an ESIP Wildfire Cluste



Trusted Sources





- LIVE collaboration sessions
- Data updating in Real-Time
- Human-Led Dashboards
 Prioritizing Trusted Data
- Building Community Capacity







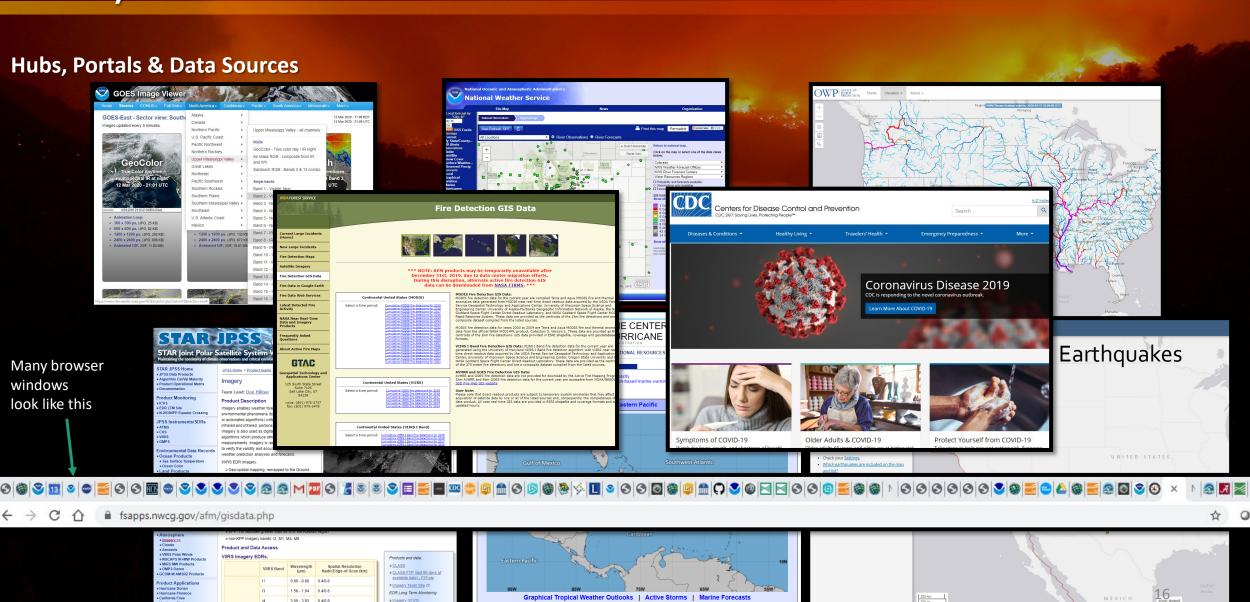








Many Websites & Data Portals Out There

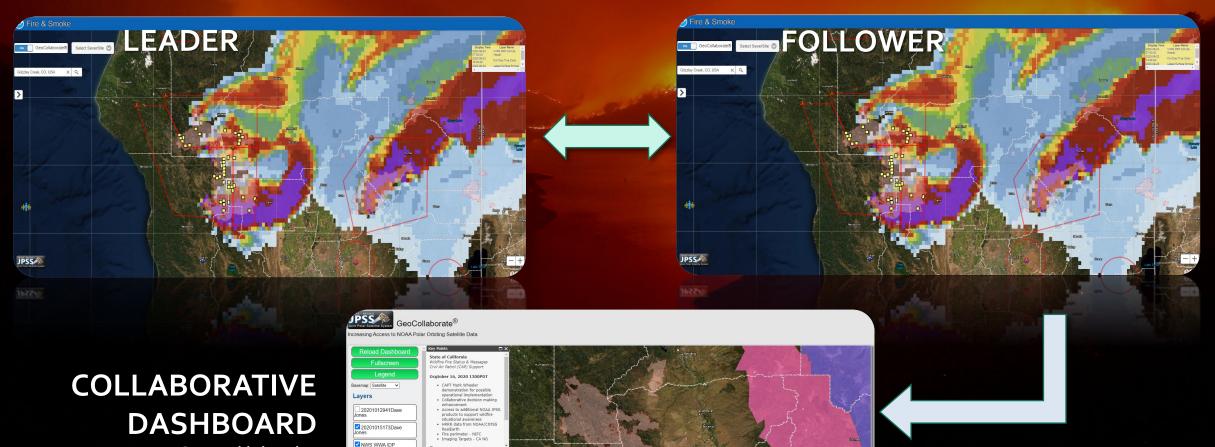


GeoCollaborate Unifies Disparate Trusted Sources





GeoCollaborate Unifies Disparate Trusted Sources



Geographic location (Area of Interest & Data Layers) can be selected by individual user

Satellite Detected Fires

US Borders NOHRSC

Drought Monitor Latest

NPP-VIIRS-TC Comp

NDBC Marine bservations

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OGC compliant data formats for rapid interoperability

*Satellite, drones, models, observations, reports, pictures Output from AI, ML – data driven decision making

"If we can get Fireline intensity, by acre as a fire is burning, and an understanding of where those pathways occurred, not just a perimeter but we're identifying the intensity of the fire within that perimeter and ranking it by doing what is needed to restore those landscapes to balance, we will limit the impacts of bad fire while using the good fire help restore the ecosystem."





Thank you!

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Thank you!

LIVE Brief Demonstration of GeoCollaborate During the Break







