

# CHEMICAL SECURITY SEMINARS

#### P4 – A Platform for Public/Private Emergency Management Collaboration



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# The Consortium for Emergency Services Technology (CEST) P4 (*Public-Private Partnerships Platform*)

Enabling Public-Private Partnerships with innovative technology to build a more resilient nation

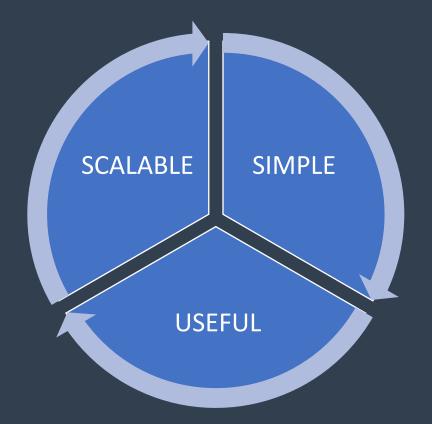


Founding Public Sector Participants



P4 as a Test Bed for an Enhanced Business Emergency Operations Concept

Improving Private
Sector Communication
& Coordination



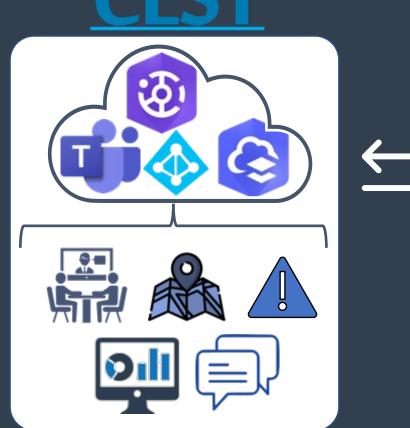






# P4 - Bridging the Gap Between Public and Private Sector in Times of Crisis







**Private Sector** 

Coordinate, Communicate, Inform

#### P4 - Framework for Public-Private Coordination











• • • Additional Apps



#### P4 - Framework for Public-Private Coordination



Event Teams are incident-specific

Channels are configured to allow conversations (including chat, video calls) and share files with trusted partners, publicly or privately.

**General**: Space for general overview, instructions, announcements

State-to-Business: For all collaboration across state and private sector

**State-to-State:** For private collaboration among state partners

**Business-Business:** For private collaboration among business partners

**Sig. Events**: For sharing alerts/warnings/incident data, automatically posted to the channel.

Private Channel – includes subset of users

> Additional channels can be added as needed.

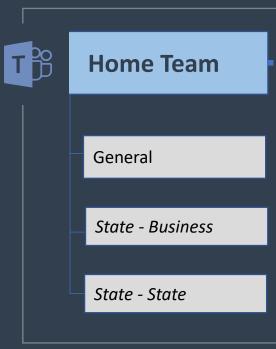
Chat: 1:1 or 1:many. This is a private conversation space, invite specific people. Chats can be named with a specific subject.

channels



#### P4 – Framework

#### **Functional Teams P3P Home Team Incident Teams** Coordinator Members



- Stakeholder team persists across incidents
- Includes all P3P members



- Functional teams persists across incidents
- Channels organized based on needs of the group.

- appropriate
- Teams are archived when Incident recovery is over

#### P4 - Current Capabilities

Integrated Teams and ArcGIS Hub, Single Sign On

Onboarding Process

P4 'Home Page'

Contact
Management
System

**BEOC Incident Reporting Form and Dashboard** 

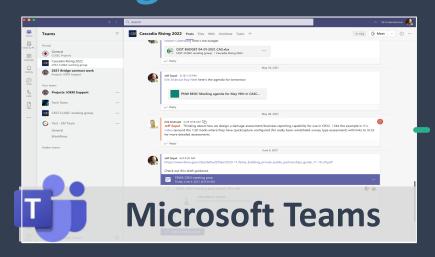
ReportBot

Bidirectional data exchange between ArcGIS and SharePoint Lists

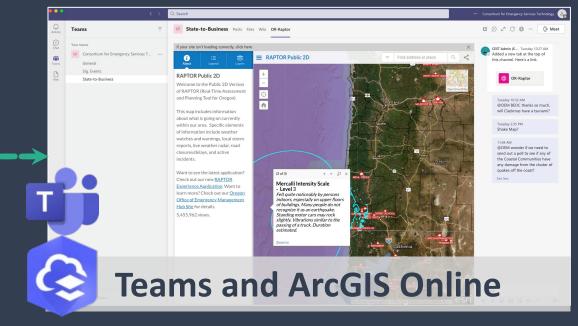
Creating / uploading files to share in a team



# P4 - Integrated Teams and ArcGIS Hub through Single Sign-on







Combining Microsoft Teams and ArcGIS
Online into a new virtual workspace



# P4 - Organization Registration process

- Registration Process invitation only
- Includes Organization Profile (primary contact, service area), Information Requirements
- Coordinator Approves Requests
- Feeds Contact Management
   System



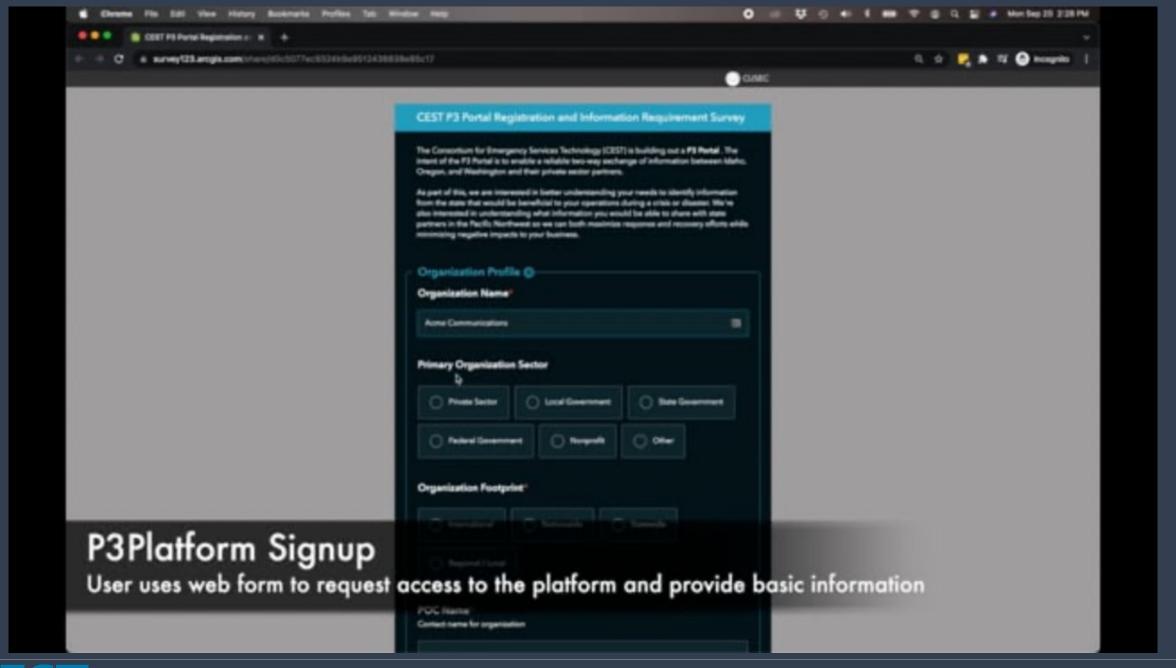


#### **BEOC Registration and Information Requirement Survey**

The Consortium for Emergency Services Technology is building out a **Virtual Business Emergency Operation Center**. The intent of the VBEOC is to enable a reliable two-way exchange of information between IOEM and our private sector partners.

As part of this, we are interested in better understanding your needs to identify information from the state that would be beneficial to your operations during a crisis or disaster. We're also interested in understanding what information you would be able to share with state partners in the Pacific Northwest so we can both maximize response and recovery efforts while minimizing negative impacts to your business.

Acme	e Food						
Busin	ess Secto	or*					
Cons	umer Good	s		•			
Busin	ess Foot	orint*					
0	Internatio	nal	○ Nati	onwide	•	Statewide	
0	Regional	/ Local					
Selec	t which s	tates y	our busin	ess opera	ites in:		
	Idaho		Oregon		Vashingto	0	





#### CEST Membership Request for Acme Communications







Ray Admin <RayAdmin@cestp3.onmicrosoft.com>

2:36 PM (2 minutes ago)







Welcome!

to me \*

Your request to join the Consortium for Emergency Services Technology Public-Private-Partnership Portal (CEST P3 Portal) has been approved! This Portal is being developed through the combined efforts of <u>Public and Private Sector collaborators</u>, and will be tested during the Cascadia Rising 2022 exercise.

#### Next Steps:

You will receive an email from Microsoft (invites@microsoft.com) shortly, with a link to accept your invitation to the CEST P3 Portal. When you receive that email, please click 'Accept Invitation' to finish setting up access. If you don't receive the invitation, please check your Spam/Junk mailbox.

Once you've accepted the invitation, you will be able to access the P3 Portal Stakeholder Team. Please explore the channels, and post a message in the

Say Hello 🚗 Channel

#### P3P New User Sign-In

New user receives emails with instructions & link to accept CEST membership

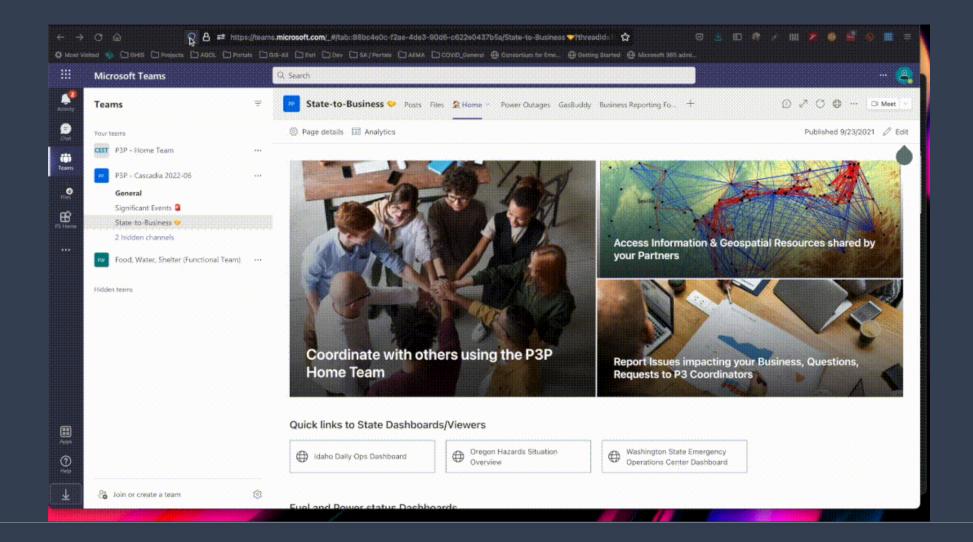


## P4 - Organization Registration process

Applicant is notified that they are approved to join P4

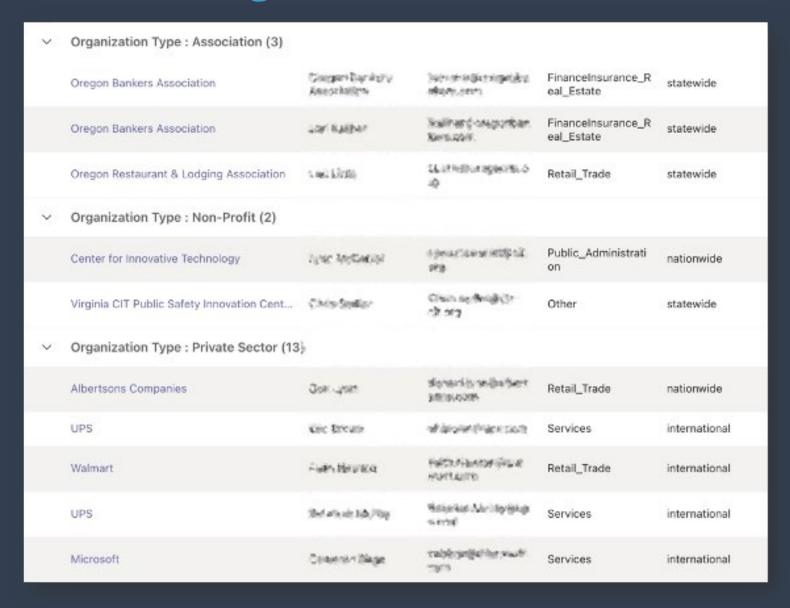


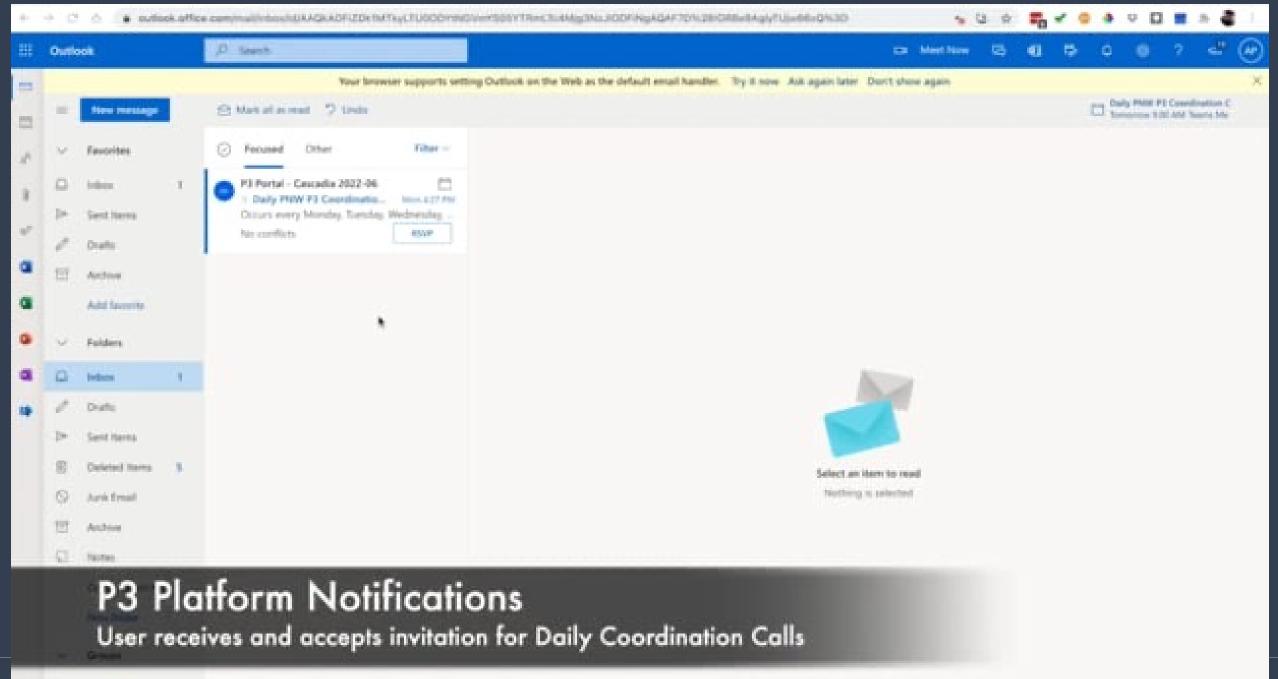
#### P4 - Shared Situational Awareness





#### P4 – Contact Management List

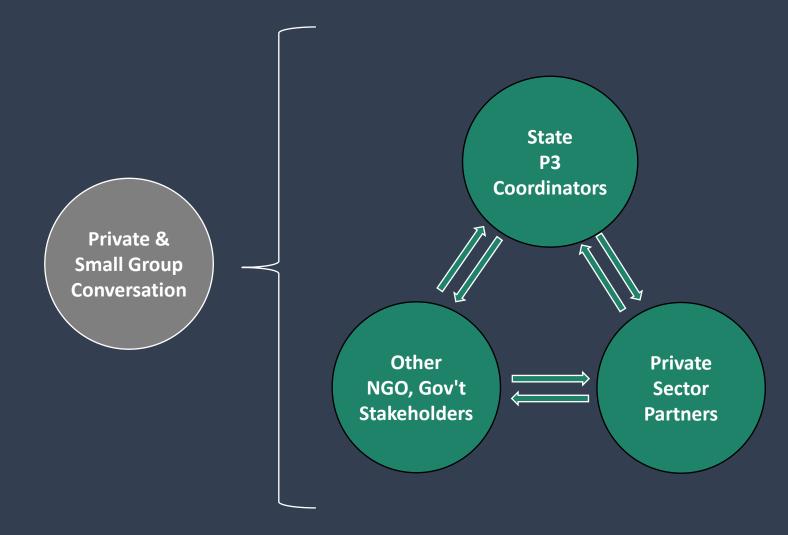




New group

#### P4 - Communicate and coordinate with channels or small groups

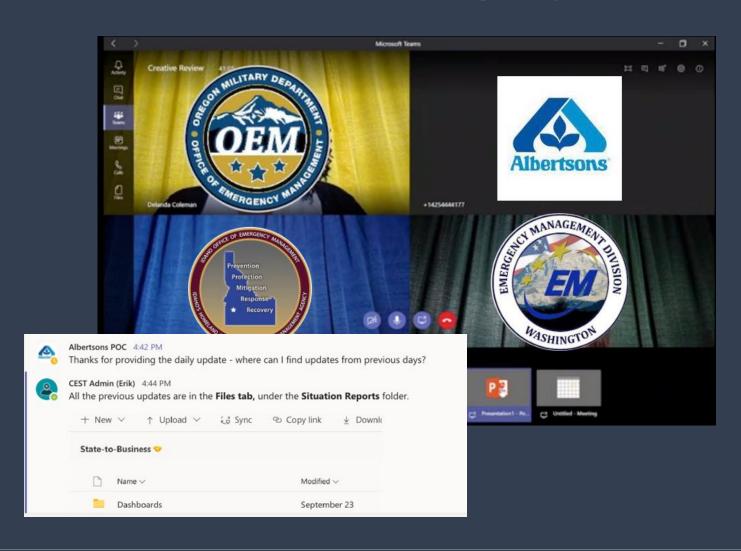
- Voice / VideoConferencing
- Threaded chat messages
- Communication integrated file sharing, information products



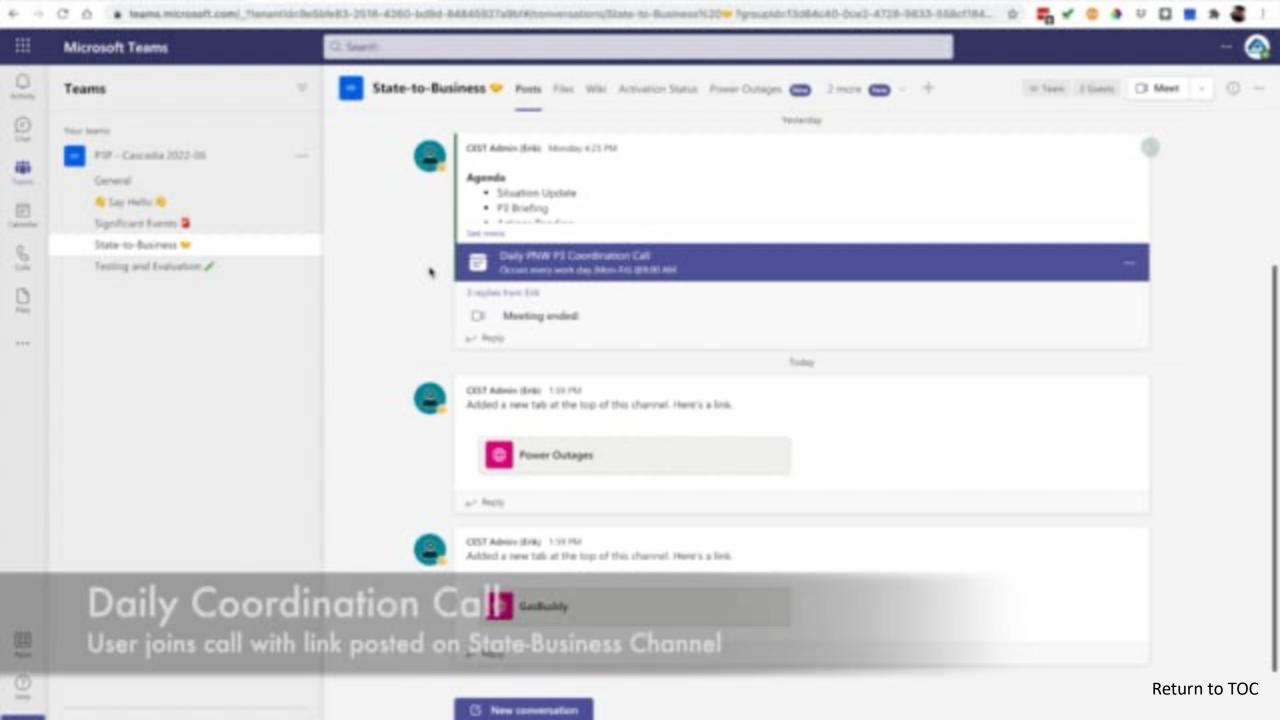


#### P4 - Communicate and coordinate with channels or small groups

- Voice / Video
   Conferencing
- Threaded chat messages
- Communication integrated file sharing, information products







# P4 - Business Incident Reporting

- Issues impacting (or having potential to impact) business
- Requests for assistance
- Offers of donations, goods/services
- Questions for state partners

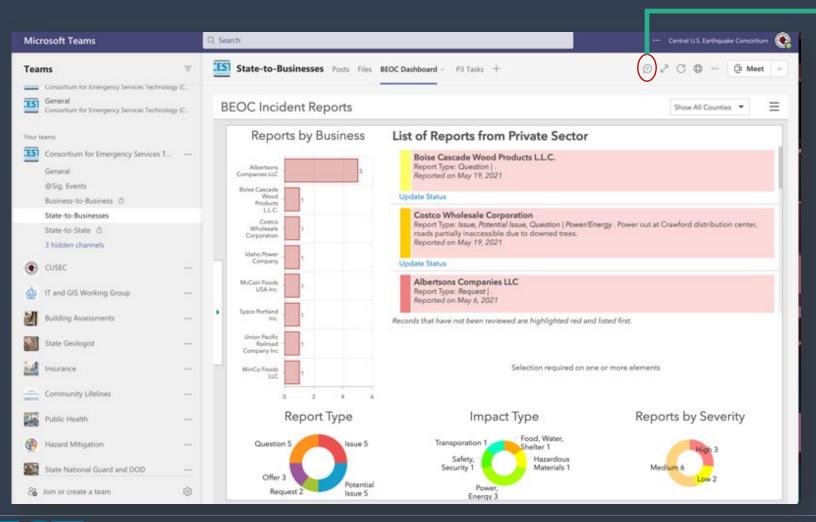
#### **CEST Business Reporting Form**



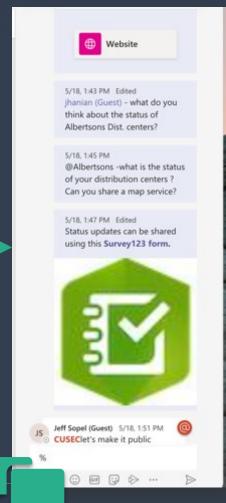


#### P4 – Business Incident Reporting

**ArcGIS Information Products Integrated Seamlessly into Teams** 

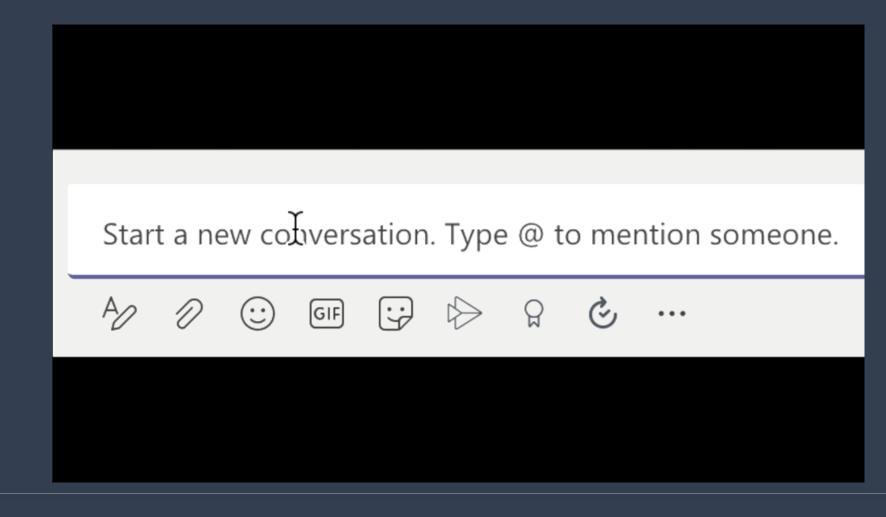


Enabling Conversation Thread around events in a Dashboard



# P4 - ReportBot

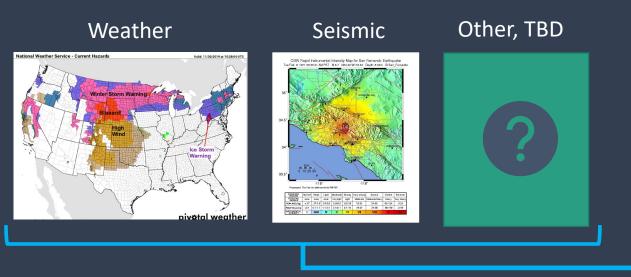
- Reports generated as cards in Teams, PDF files
- Triggers: On-demand,
   Scheduled or by predefined criteria

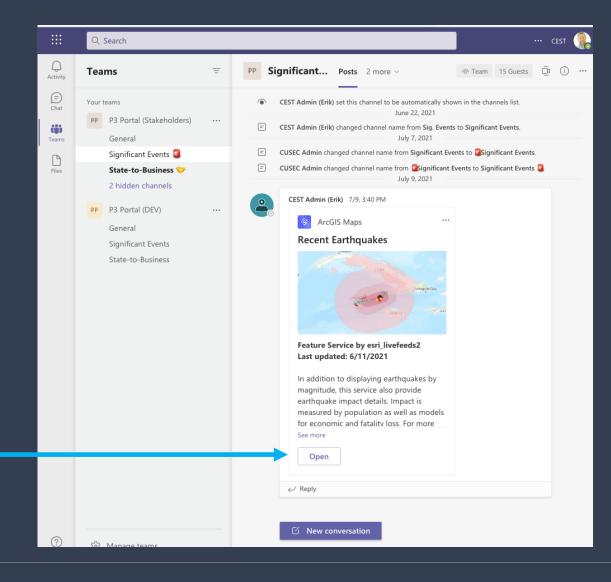




## P4 - ReportBot

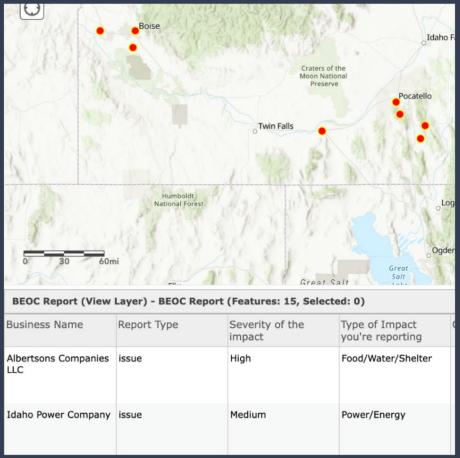
 Integrated information feeds tailored to public and private sector users



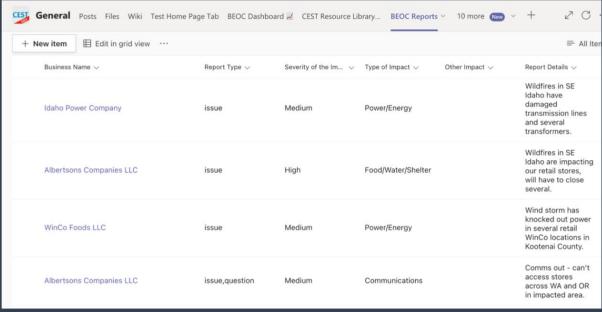




#### P4 - Bi-Directional Data Exchange





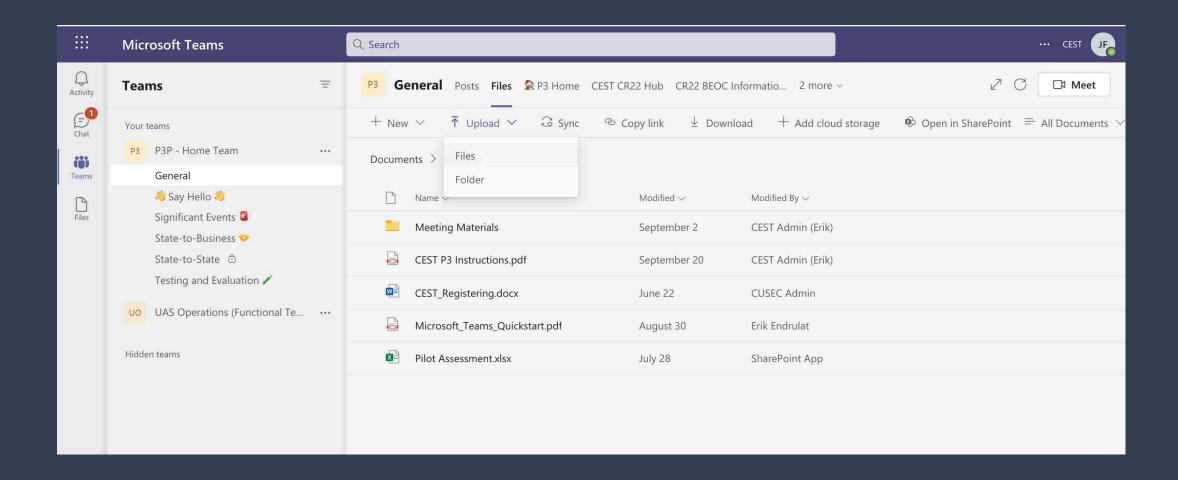


SharePoint List in Teams

ArcGIS Online Feature Service



#### P4 - Creating or uploading files to share with a team





## P4 – Work in Development

Mission Tracking

Polling

Group Assignments



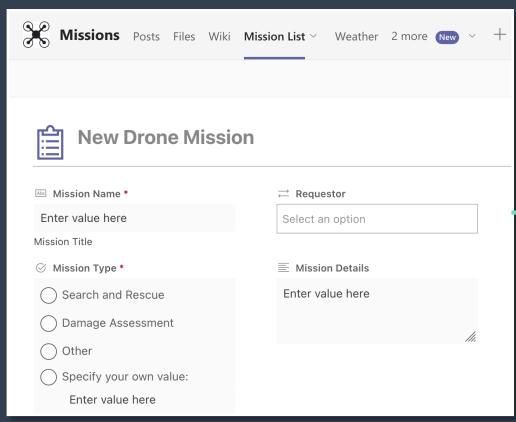
#### P4 - UAS Mission Tracking Use Case Virginia VIPC, VDEM, York Co Fire

- Request for assistance received by state coordinators
- State coordinator assigns mission to mutual aid
- Rapid response team accepts mission
- Team coordination associated with a mission
- Mission stakeholders added to the communications
- Mission reporting / video streaming / etc.

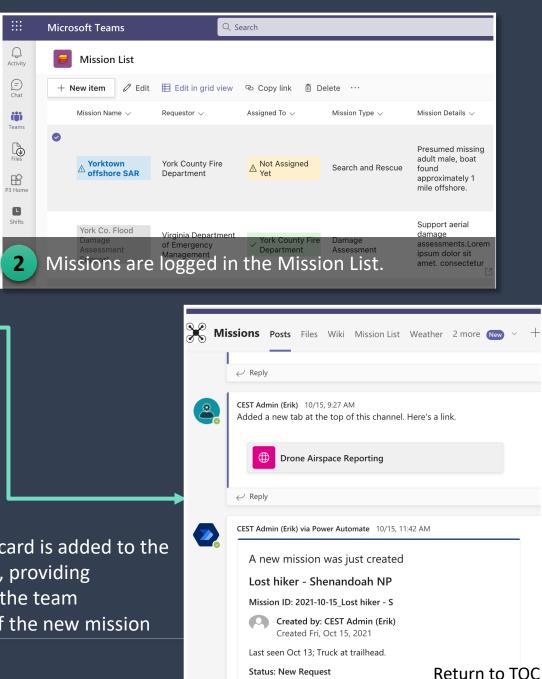




#### P4 - UAS Mission Tracking



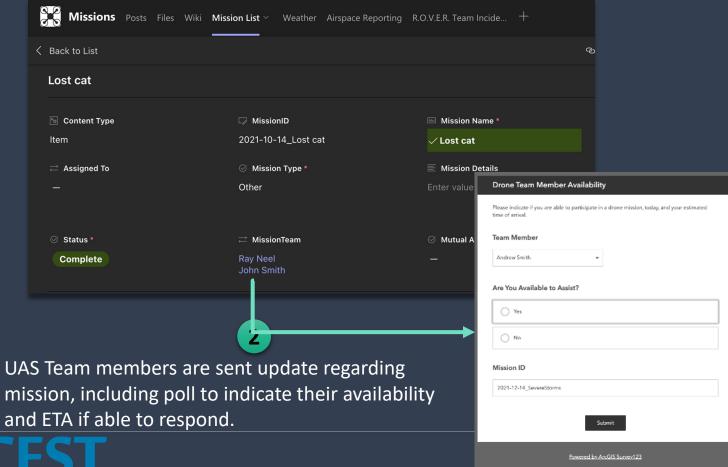
A new Mission is added using the easy-touse data entry form. *Requestor, Assigned To* and *Mission Team* fields are populated from registered users in the Drone Partner list. An adaptive card is added to the Mission Post, providing members of the team awareness of the new mission

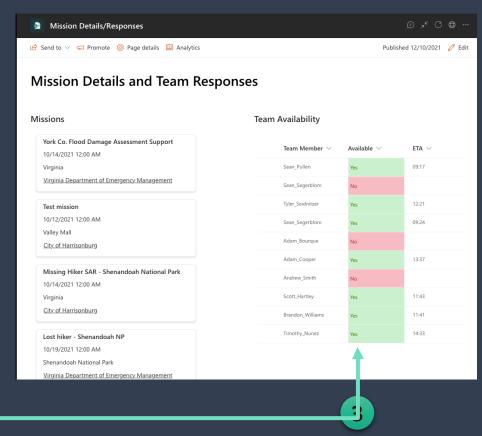




#### P4 - Polling

A new Mission is created

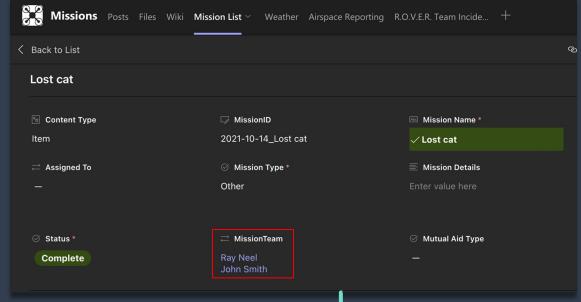




Mission Details page in P4 updated with availability of UAS Team Members to respond. UAS Team Lead can assemble team based on this information.

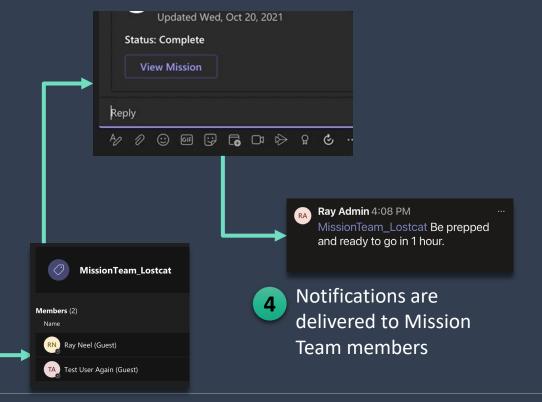
#### P4 - Group Assignments

A Mission Team is assembled based on those available to respond



A Group Tag is generated using the Mission Name, and the team members are added to it. Any time the team is updated, the Group Tag is refreshed

The new Group Tag is named "MissionTeam" plus the name of the Mission. It can now be called to get the attention of those involved in the Drone Mission





#### The Consortium for Emergency Services Technology (CEST)

#### Example of CEST P4 in Use

Significant Earthquake triggers new P3 Platform workspace, notifications sent to CEST P3 users based on earthquake event.

Waivers are shared with private sector partners (e.g., re-entry waivers supporting Mass Care response operations, weight-limit and driver hour waivers for Transportation.

The P3 Platform is used to conduct daily PPP briefings, bringing in real-time damage assessments of key private sector infrastructure (banking, food service)















Location and extent of modeled damages, casualties, Lifeline Status, food-water-shelter needs, and Evacuation plans shared.

Company Y offers to provide a staging area for the POD, along with an offer to supply ice and pallets of water.

Thank you!

Questions?

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