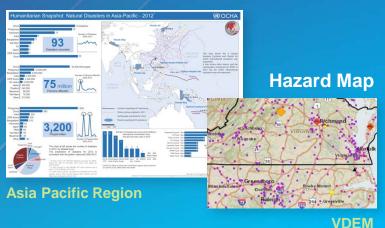


Plenary Presentation: Esri's Public Safety Assistance Program— How We Can Help You

Chris McIntosh, Esri
Jon Pedder, Esri
Desiree Kocis, GIS Coordinator, Massachusetts Emergency Management Agency

Planning for and Managing Emergencies (Incidents)

Asia-Pacific Natural Disasters



Interior Geospatial Emergency Management



U.S. Department of the Interior USGS

Risks from Sea Level Rise



New York City, Jersey City

Documenting Storm Damage



U.S. Department of the Interior / Urban Forestry Administration, Washington, DC

Storm Threat to Energy Infrastructure



U.S. Energy Information Administration

Posted Warnings



National Weather Service

Typhoon Damage Assessment

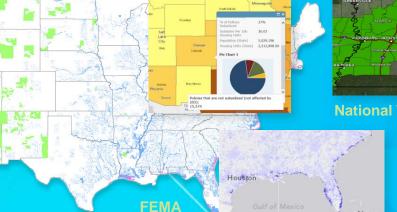


Standby Task Force / GIS Corps

Typhoon Response

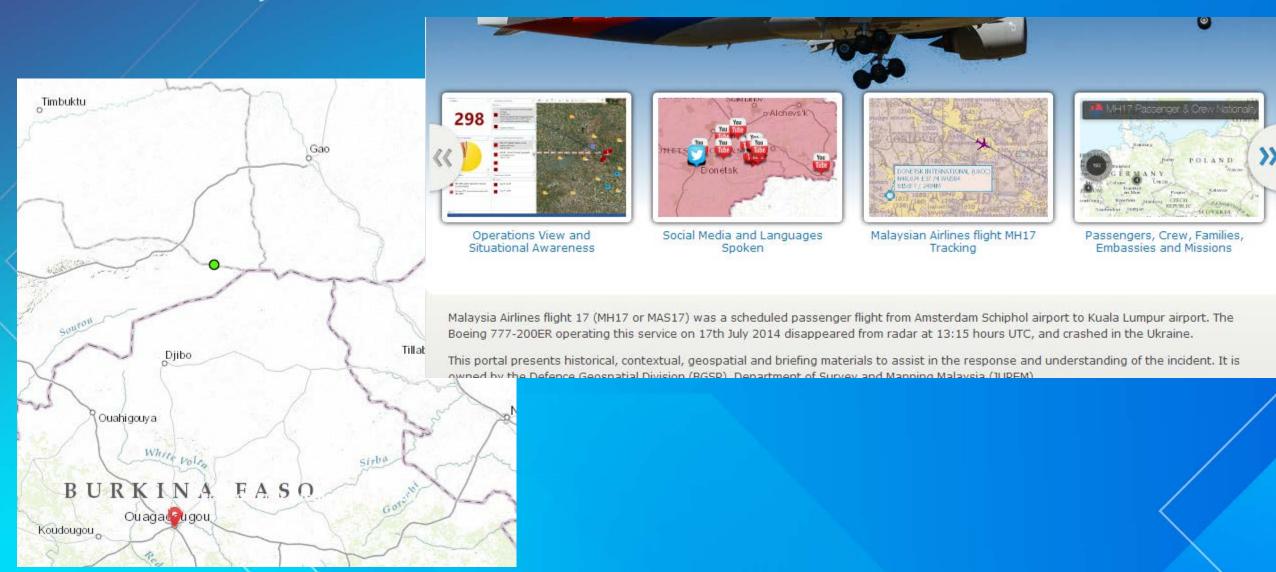


World Vision

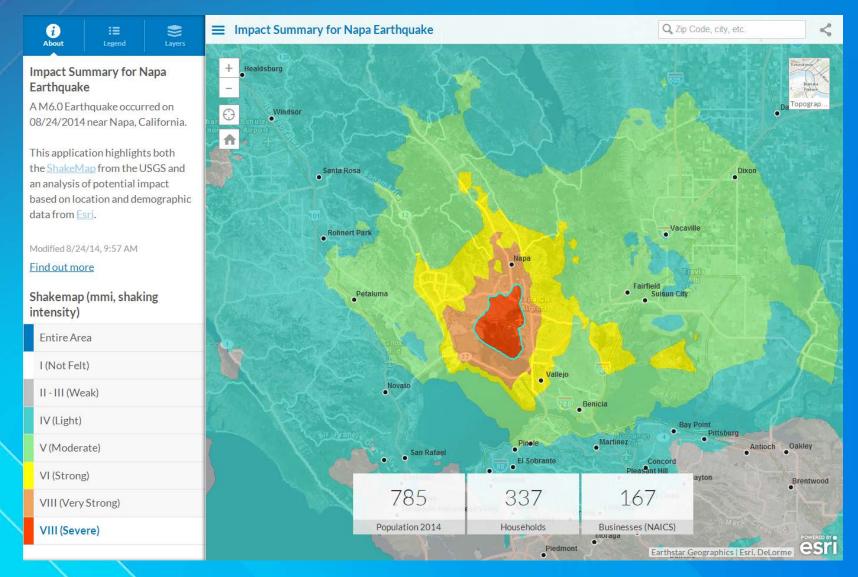


Flood Planning

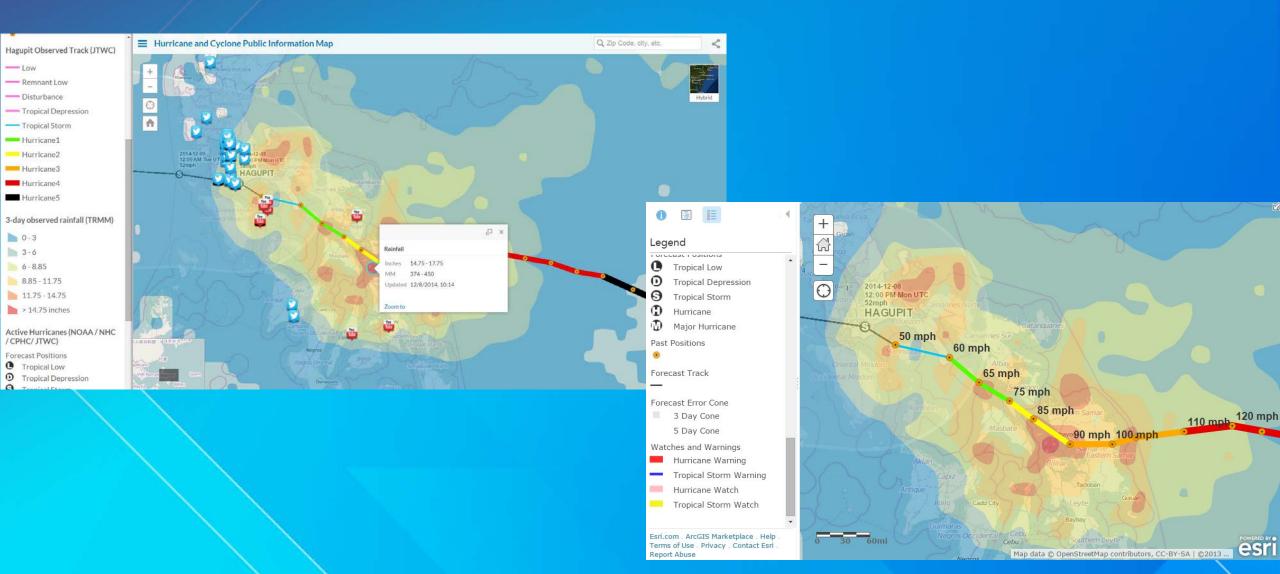
MH-17 - Last day of UC 2014



Napa Earthquake



Hagupit/Ruby PH Rainfall (December 2014)



Hagupit/Ruby PH Rainfall

map or the colored categories below to see how people live in the affected region.

Rainfall: NASA <u>Tropical Rainfall Measuring</u> (TRMM) <u>information</u> and <u>data source</u>

Population & Households: Esri Demographics, <u>information</u> and <u>data</u> source

This app was made using the <u>Impact</u> <u>Summary template</u> in ArcGIS Online.

Modified 12/8/14, 3:51 PM

Find out more

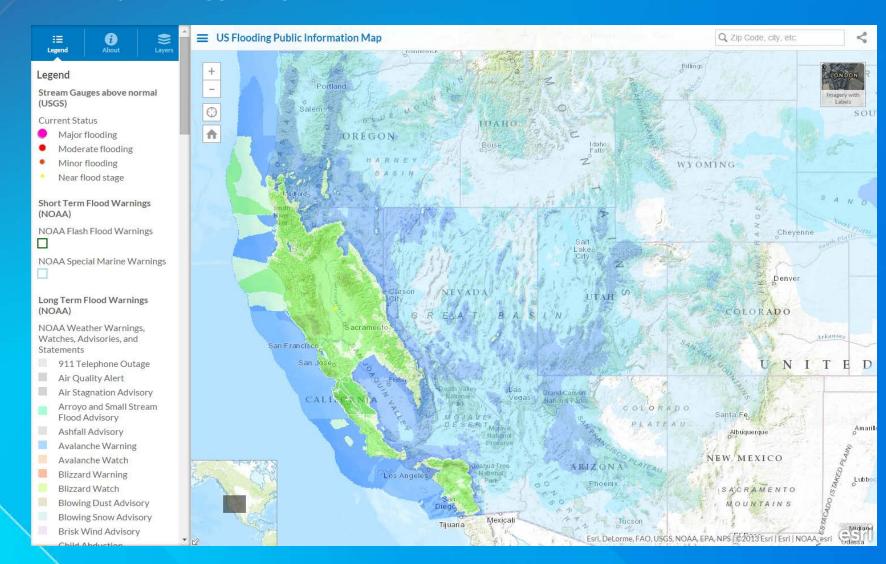
Rainfall (inches)

0 - 0.3"

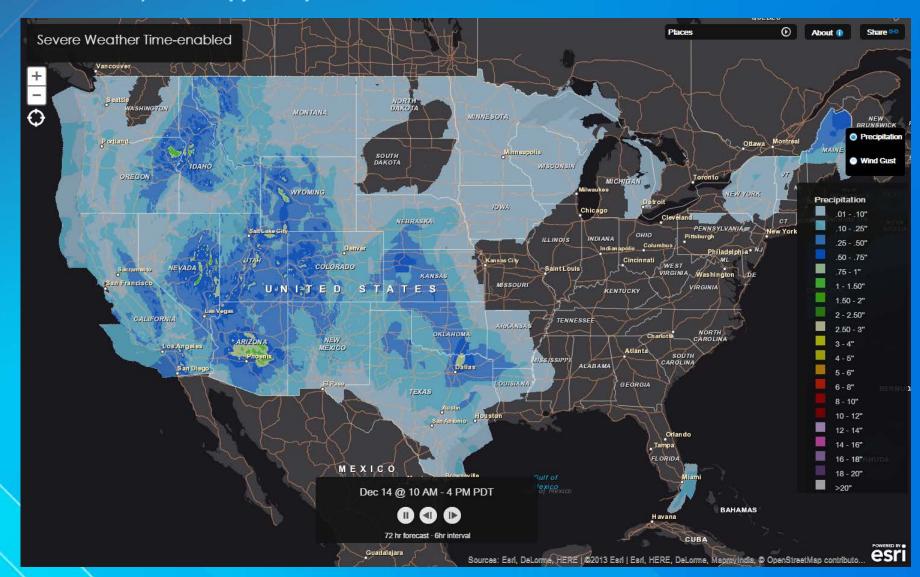
3-6



CA Floods (December 2014) – Pineapple Express

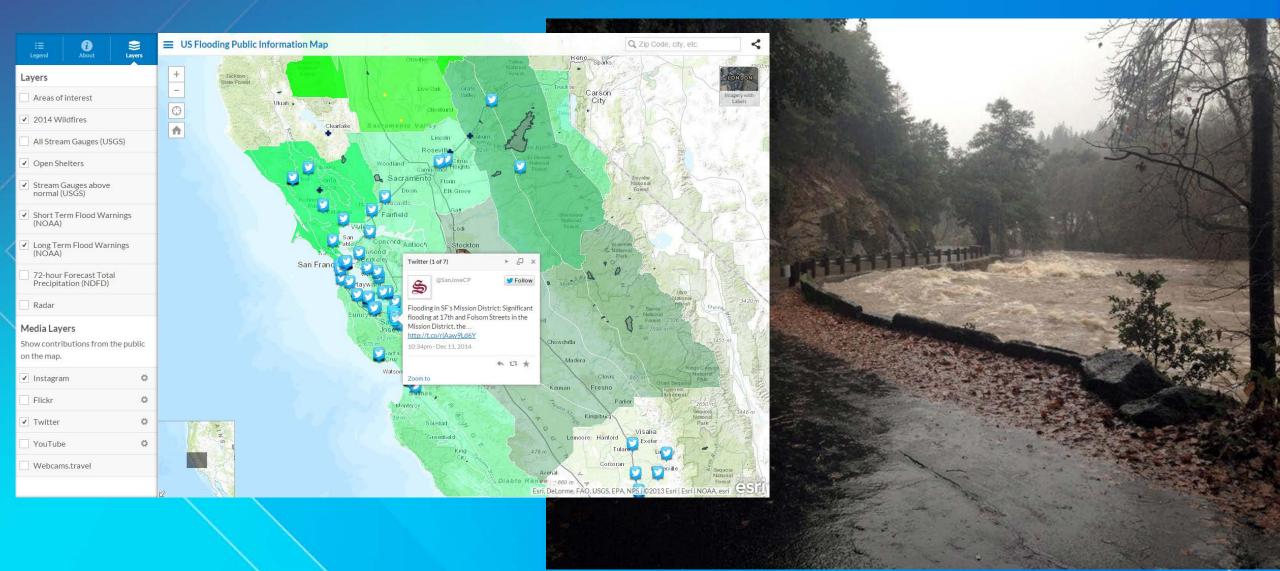


CA Floods (December 2014) – Pineapple Express

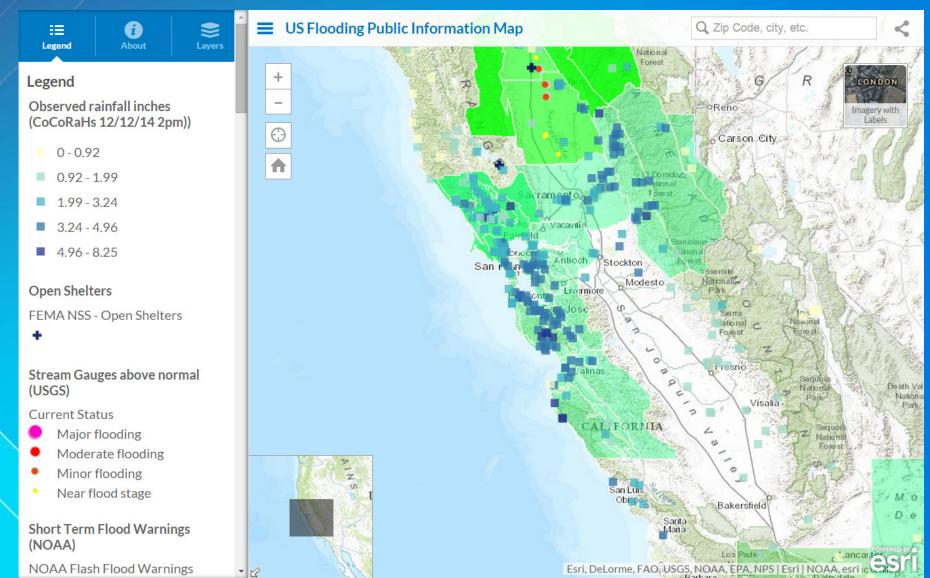


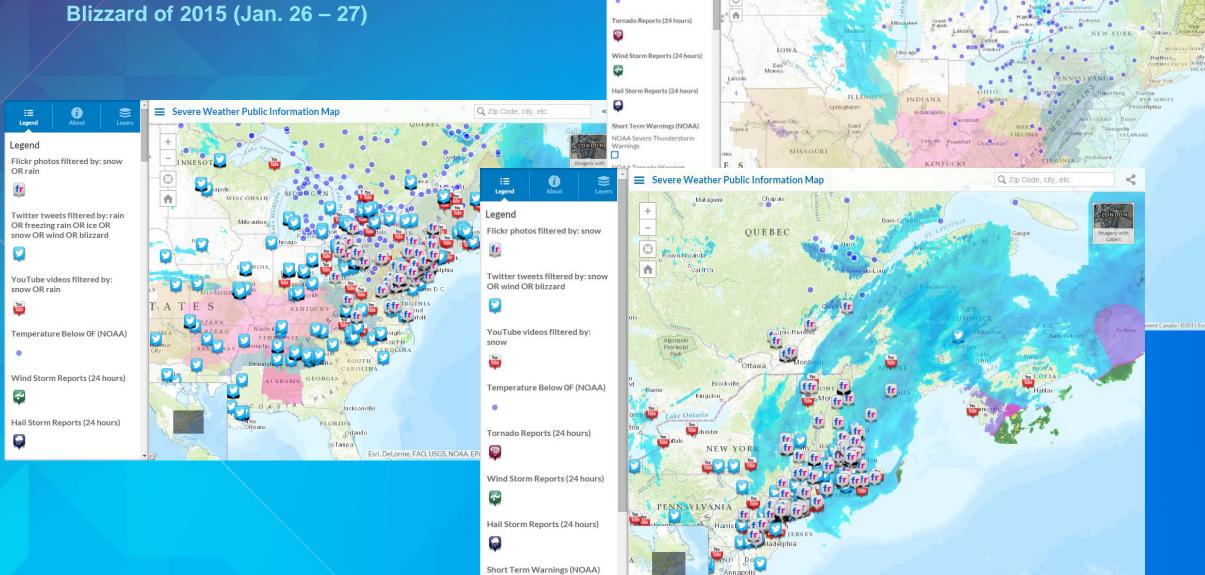
CA Floods (December 2014) – Pineapple Express

Dunsmuir, CA



CA Floods (December 2014) – Pineapple Express





NOAA Severe Thunderstorm

Warnings

Temperature Below OF (NOAA)

Severe Weather Public Information Map

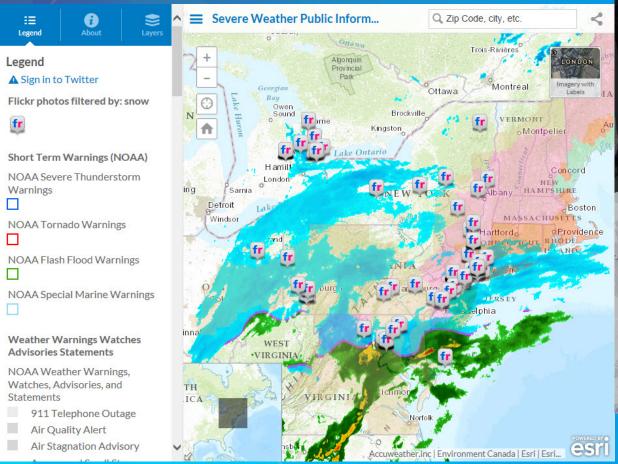
Esri, DeLorme, FAO, USGS, NOAA, EPA, NPS | Accuweather.inc | Environm.

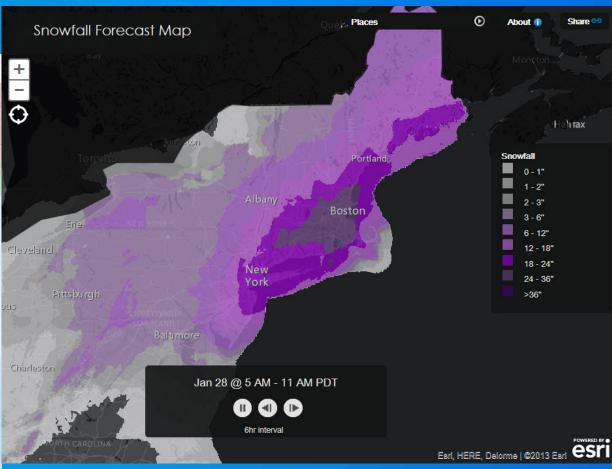
Blizzard of 2015 (Jan. 26 - 27) Snowfall Forecast Map ■ 2015 Blizzard Impact Summary Map Q Zip Code, city, etc. 2015 Blizzard Impact Summary Map This map displays the snow totals reported during the January 2015 blizzard that impacted the Rochester Northeastern U.S. 18 - 24" The storm total data was acquired NOAA (http://www.srh.noaa.gov/). Modified 1/28/15, 4:57 PM Find out more 48 Hour Snowfall Total 1 inch + 2 inches + Jan 28 @ 10 AM - 4 PM PDT 3 inches + 000 4 inches + Esri, HERE, Delorme | ©2013 Esri esri Philadelphia 6 inches + 74.8m 32.1m 5.6m 8 inches + **February 2015 – Forecast TIM** Total Housing Units **Total Businesses** 10 inches +

February 2015 – ISM

12 inches +

Blizzard of 2015 (Jan. 26 - 27)

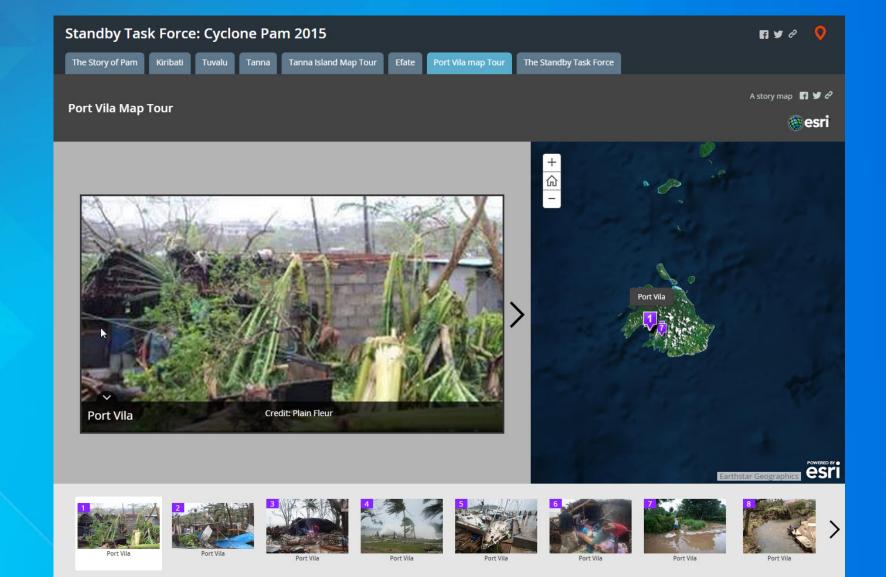




January 26, 2015 – Forecast TIM

January 26, 2015 – Severe Weather PIM

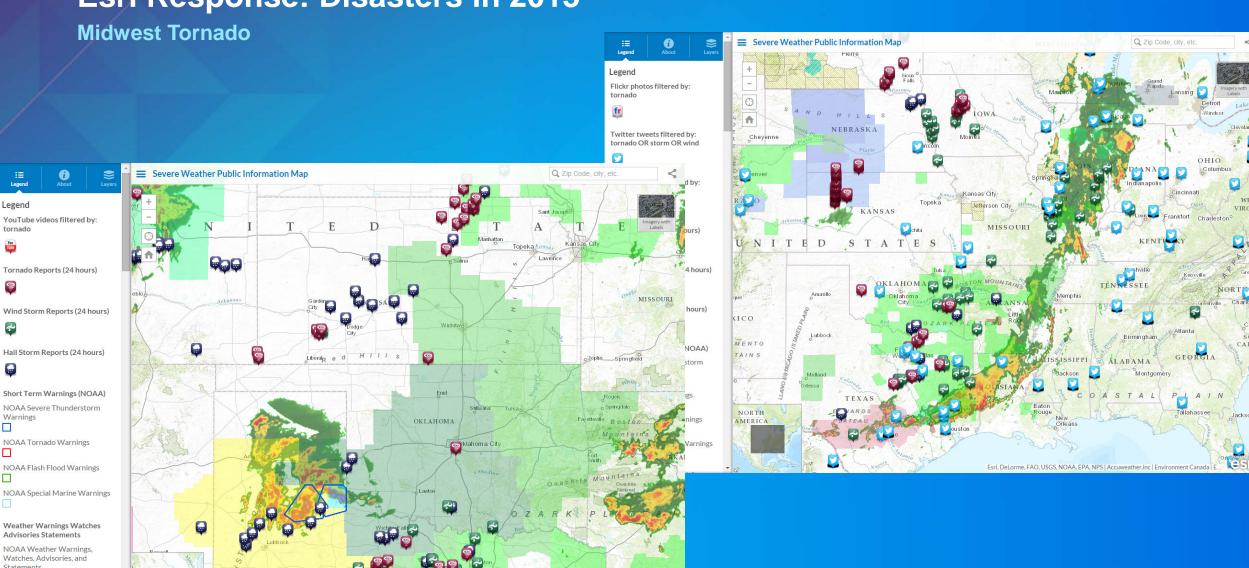
Cyclone Pam



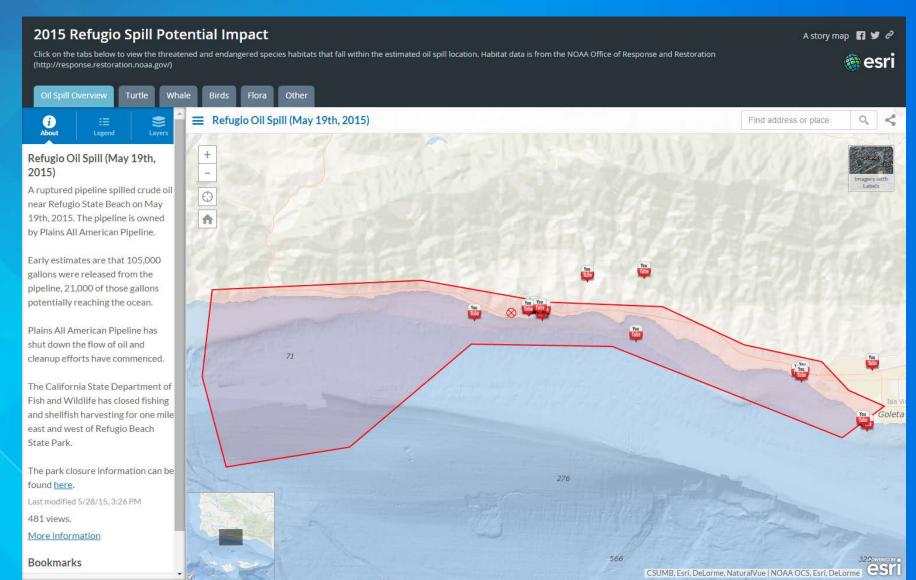
911 Telephone Outage

Air Quality Alert
Air Stagnation Advisory
Arroyo and Small Stream

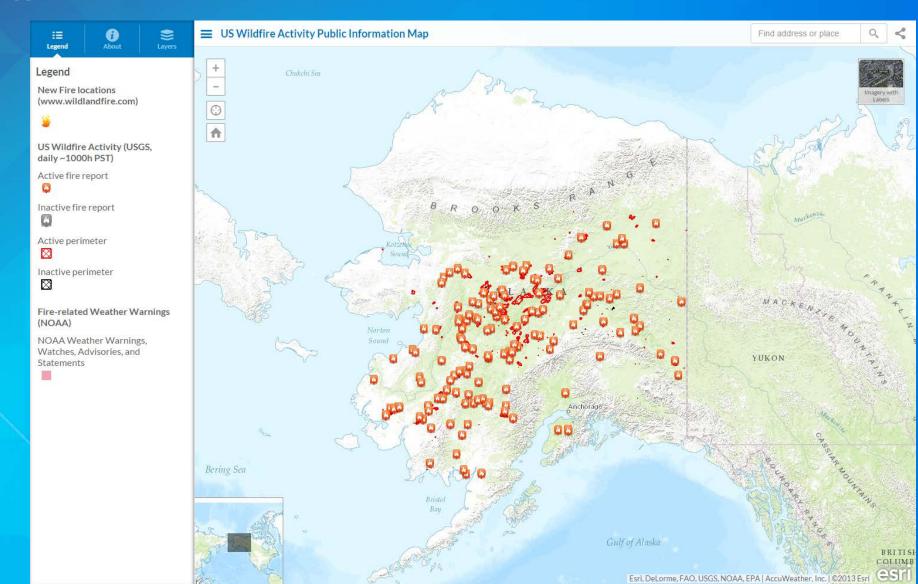
TATES



Oil Spill - Santa Barbara, CA



Alaska Wildfires



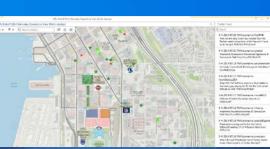
Supporting Special Events

Sporting Venues



Conferences/Conventions







Incidents/Events – A Common Problem

- Sharing static, dynamic and other data across organizations and departments – shared situational awareness
- Integrating and analyzing data to provide actionable information
- Deploying mission-based (easy-to-use) applications
- Disseminating information to multiple devices



Similar Patterns

- Dissimilar events
 - Boston Marathon, 35,000 runners, 26.2 miles
 - Richmond Raceway (NASCAR), 400 acre site

Analysis Field Visualization Constituent Location Data Management Enablement Enablement (Operational Engagement Awareness) Complete and Integrated Workflows Get information Get feedback and make Collect, organize, and Transform data into Disseminate information Enhance other into and out of the field exchange data actionable information where and when it is needed informed decisions business systems ...

Boston Marathon 2015

- Shared situational awareness between multiple agencies
 BRIC, MEMA, Boston City EOC
- True, real-time "common" operational data layers

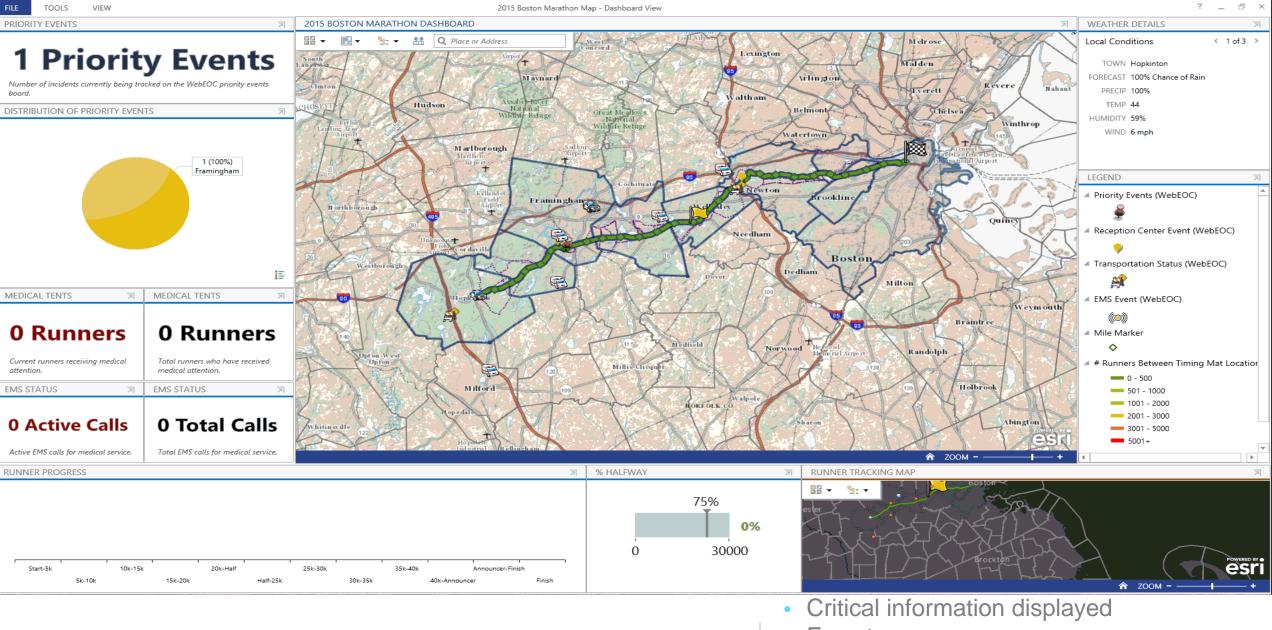






The Current State

- Critical information lost
- Hard to use
- Difficult to share and collaborate
- Not dynamic for current conditions



The Future State

- Easy to use
- Easy to share and collaborate
- Dynamic



Search for open data

- + Q

Q SEARCH WITHIN MAP

Esri Disaster Response Program

When disaster strikes, Esri's Disaster Response Program (DRP) is there , augment software, explore content, and monitor events online as part of our corporate citizenship. We're there when you need us

Featured Datasets



Incident Data

Data created or edited in support of an



Base Data

Data layers that exist before the incident and that are used to provide the base features for mapping.



Live Data

Data that is constantly updated at the source and dynamically changes its geography and/or attributes.



EsriDisasterResponse

Tweet to @EsriDRP

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www.esri.com/disaster

Help when you

When disaster strikes, E experts, augment softwa



Products Support & Services About Community

Services

Esri Disaster Response Program

GIS for Emergency Management

Help when you need it most

When disaster strikes, Esri's Disaster Response Program (DRP) is there to support you around the clock, 24 x 7. Request assistance from Esri experts, augment software, explore content, and monitor events online as part of our corporate citizenship. We're there when you need us most.

Request assistance and monitor the following event types:









⊠ y in **f** Follow Esri DRP:

Flooding

Severe Weather



Understanding our world.