Federal GIS Conference

February 9–10, 2015 | Washington, DC

# Making Maps and Apps for Disaster Response: Lessons Learned from Past Events

Chris McIntosh - Esri

Jeff Baranyi - Esri

Chi Smith - CalOES

# Agenda

- Introduction
- Common Information Products
- Web maps
- User Guides
  - Local Impact Map
- Chi Smith, CalOES

esri Disaster Response

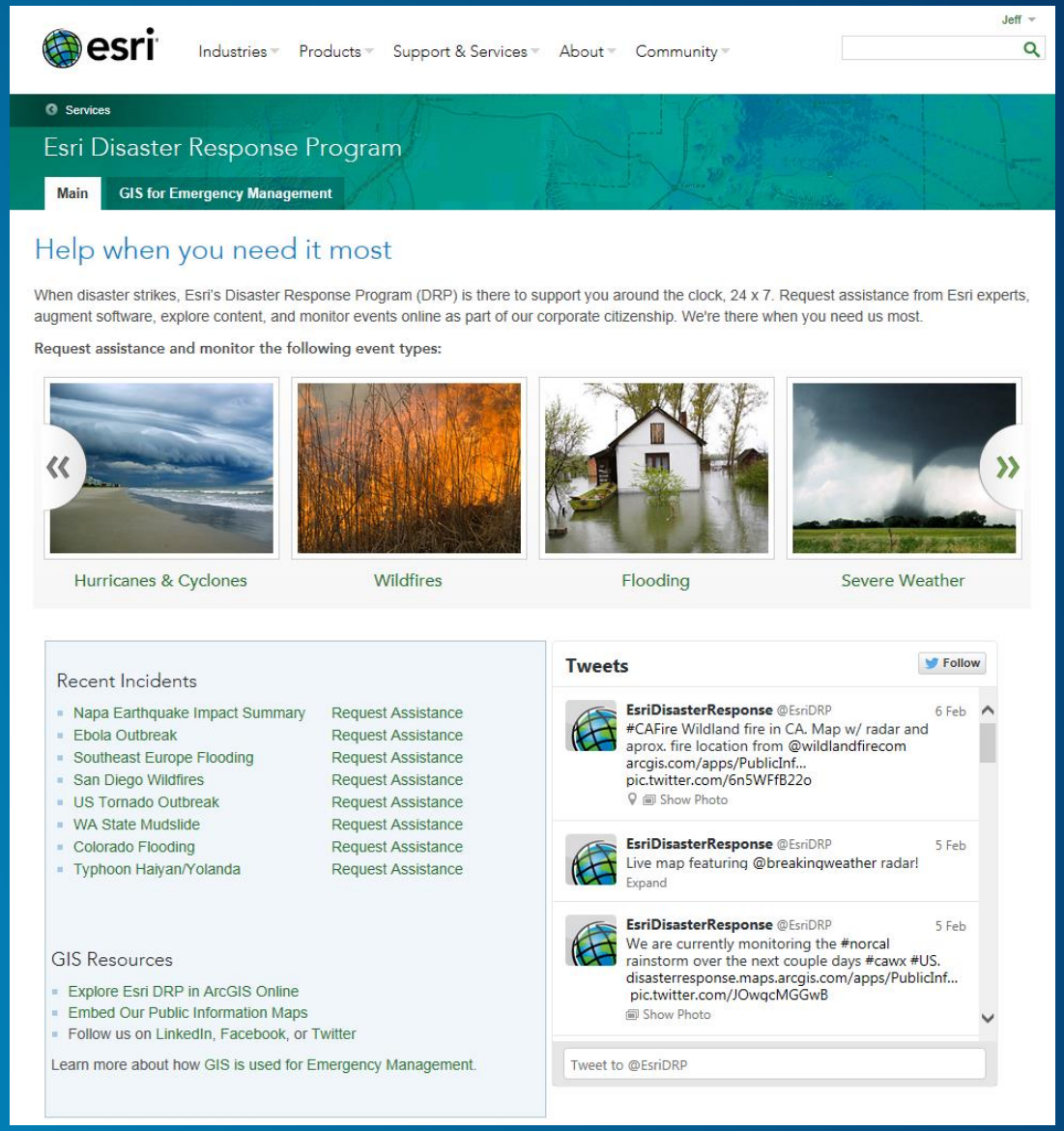
esri.com/disaster

- **Global Response**
- **Corporate Citizenship**
- Support Affected Organizations

# Esri Disaster Response Program Provides

www.esri.com/disaster

- **Software, data, maps**
- **Expertise / Remote Support**
- **Onsite help**

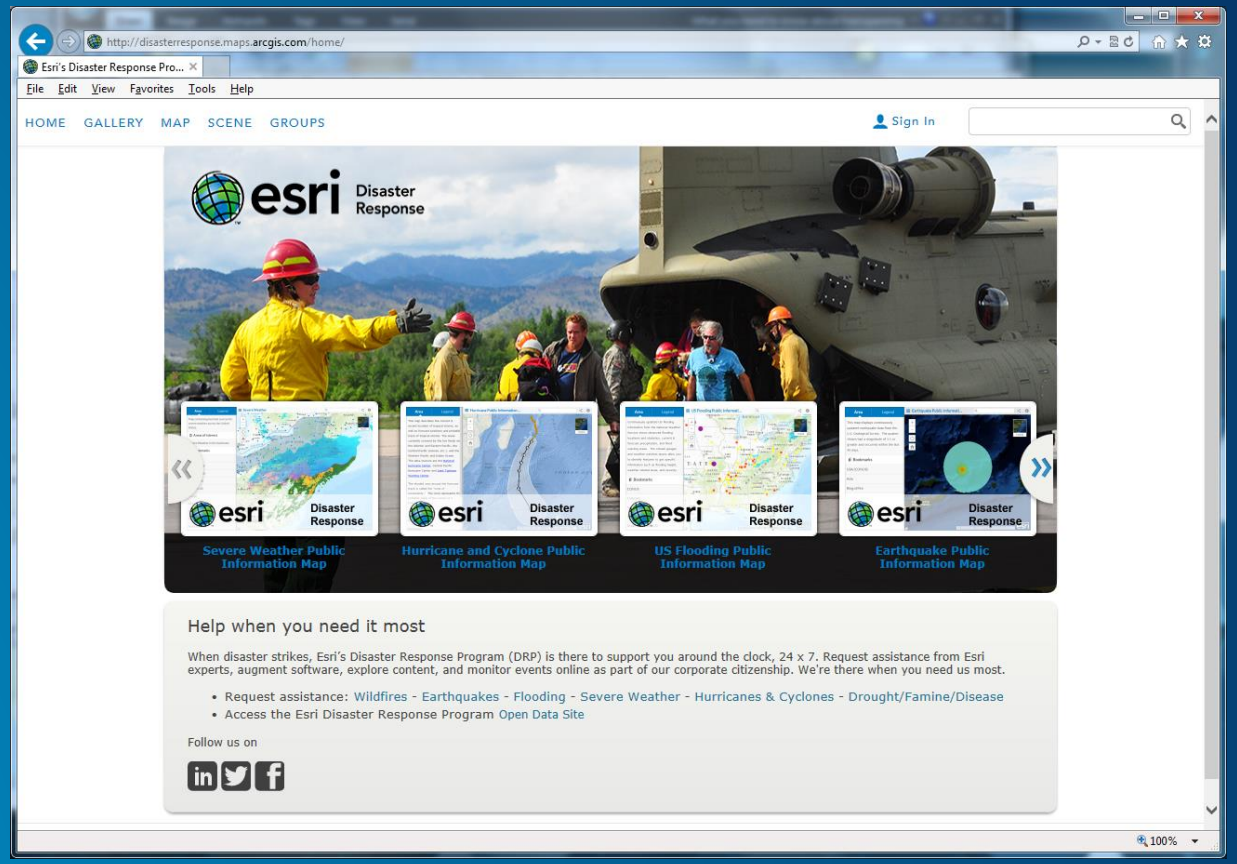


# GIS in Disaster Response

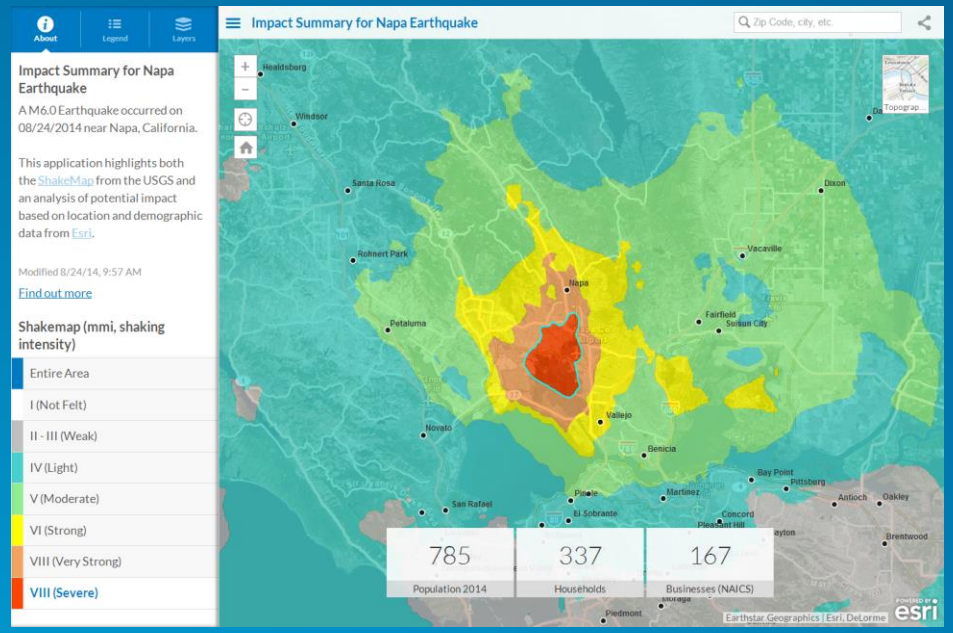
## Prepare, Respond, Recover

- Users
- Our Partners
- Esri Personnel

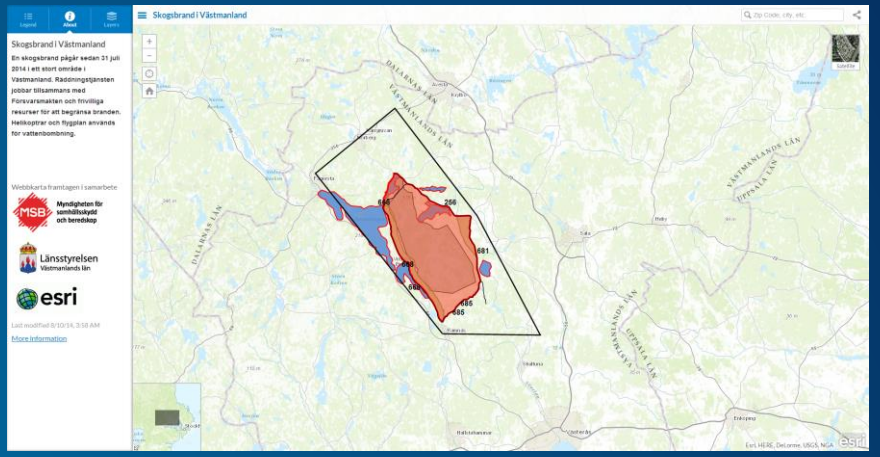
http://disasterresponse.maps.arcgis.com/home/




esri Disaster Response

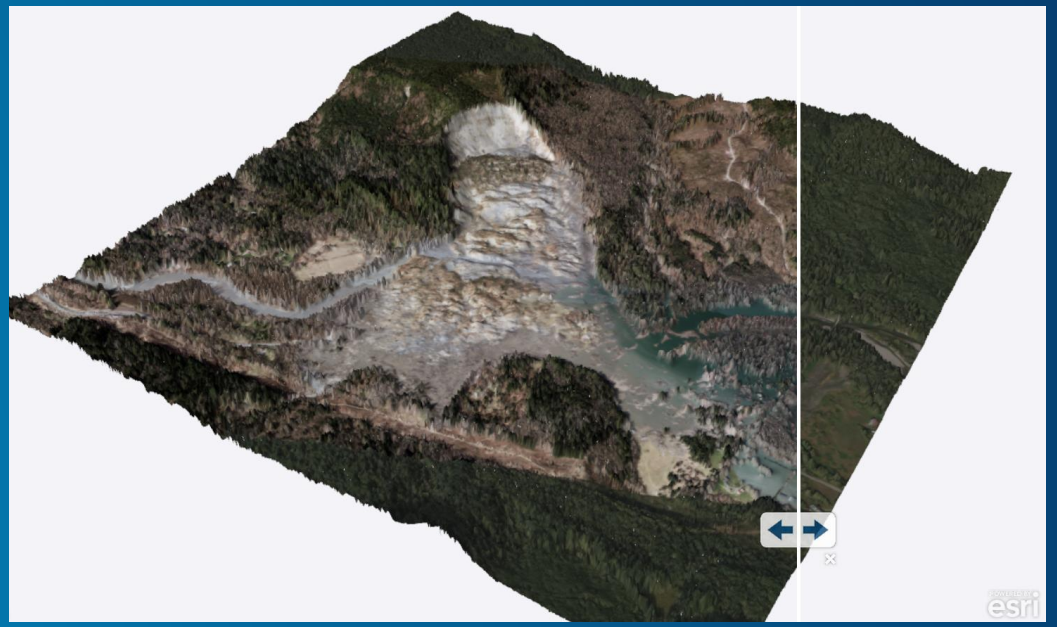



## Napa Earthquake




## Wildfires in Sweden

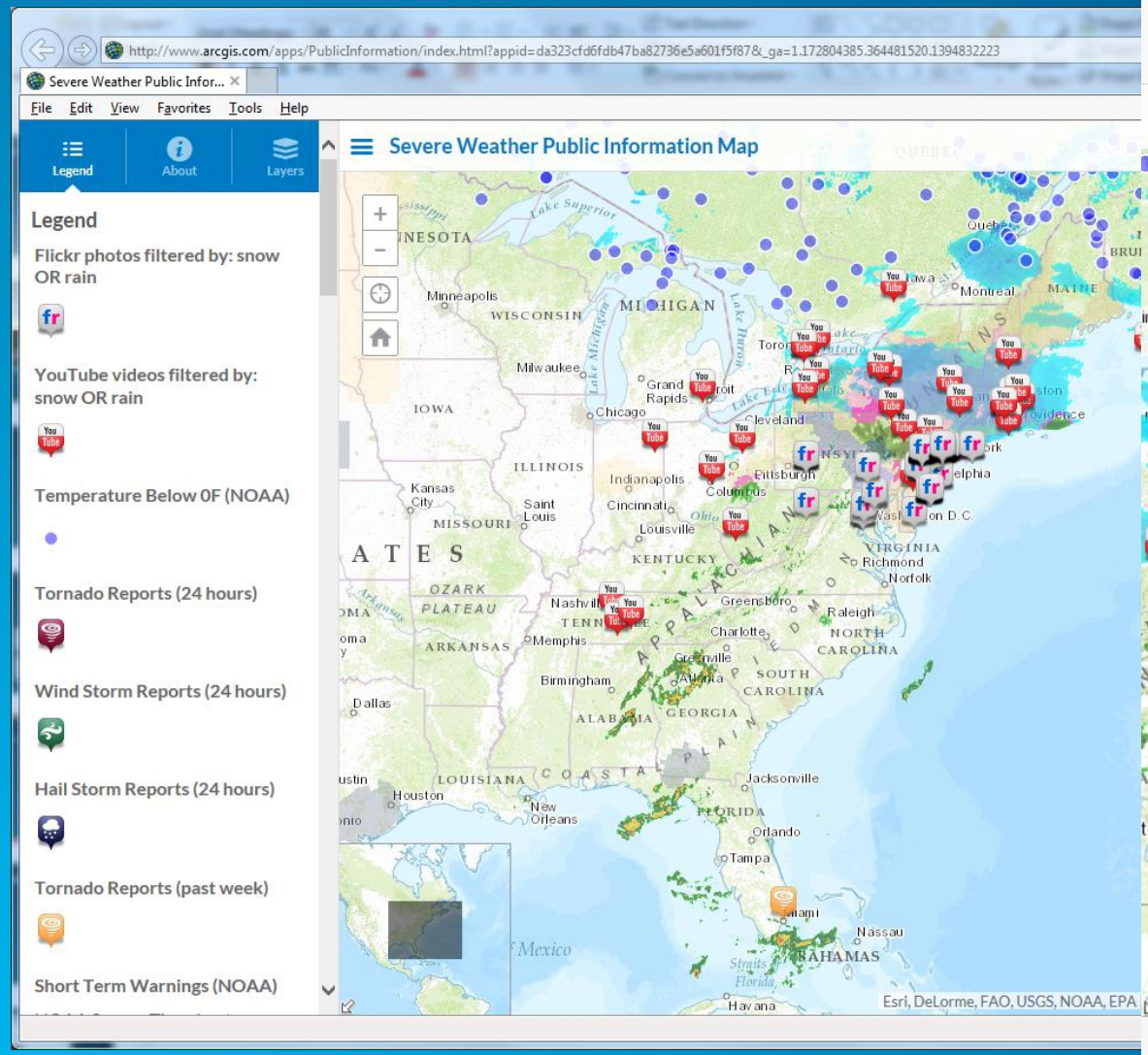
## CAPSTONE

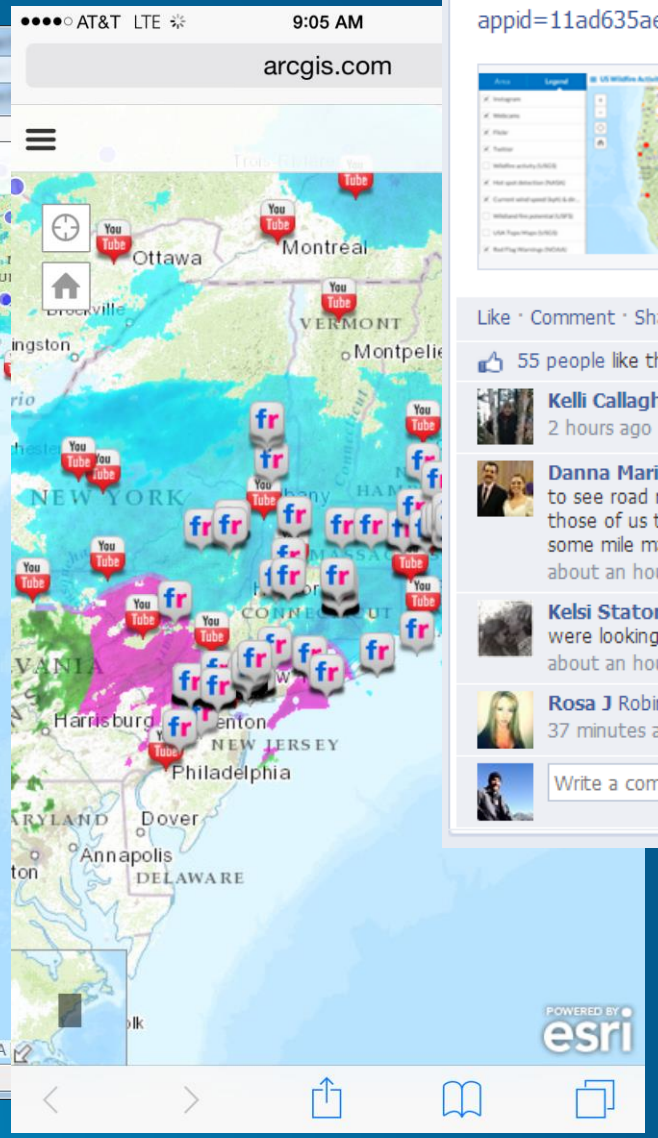



## Landslide in Oso, Washington

# Public Information Map

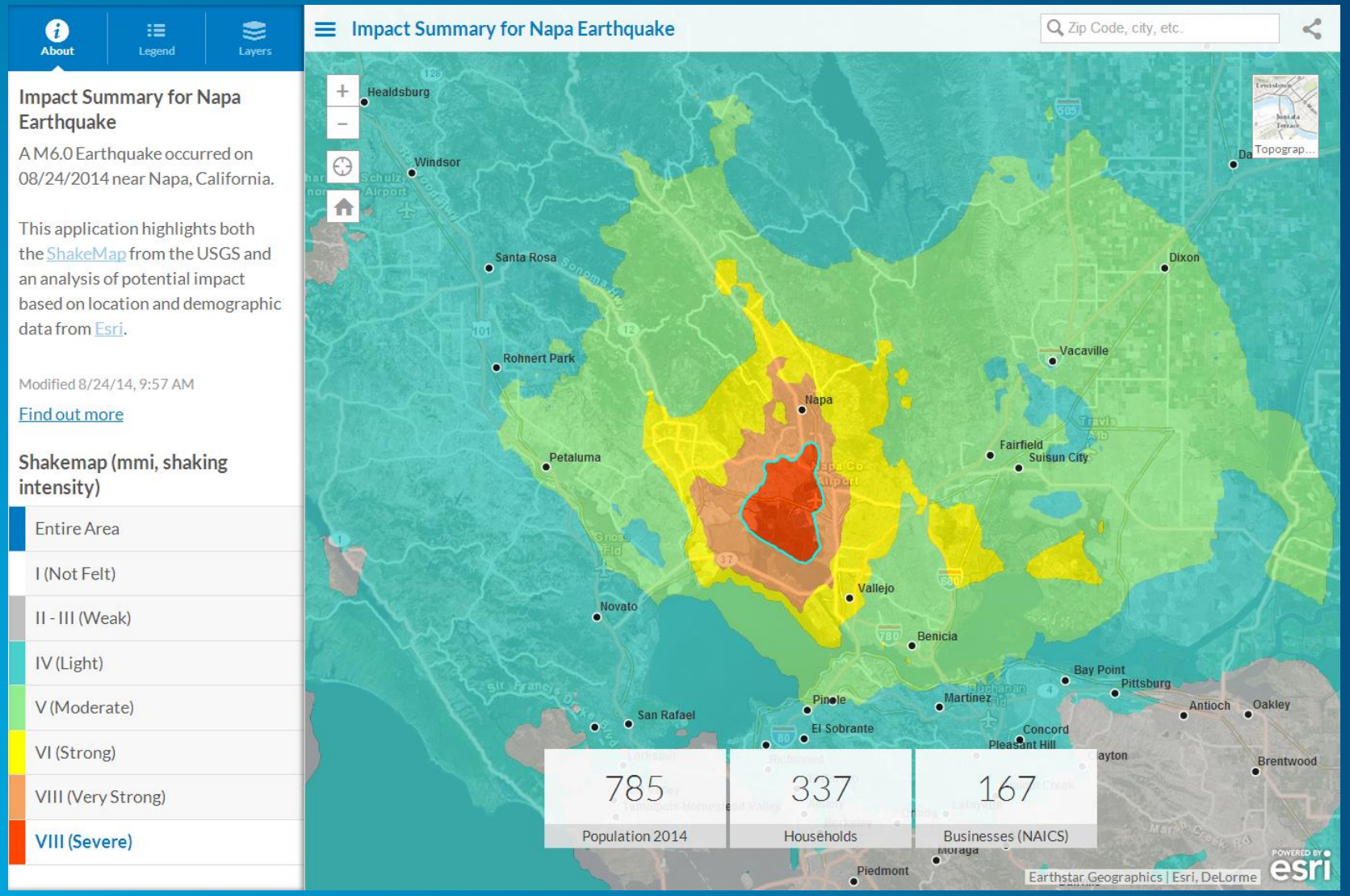
http://solutions.arcgis.com/emergency-management/help/public-information/



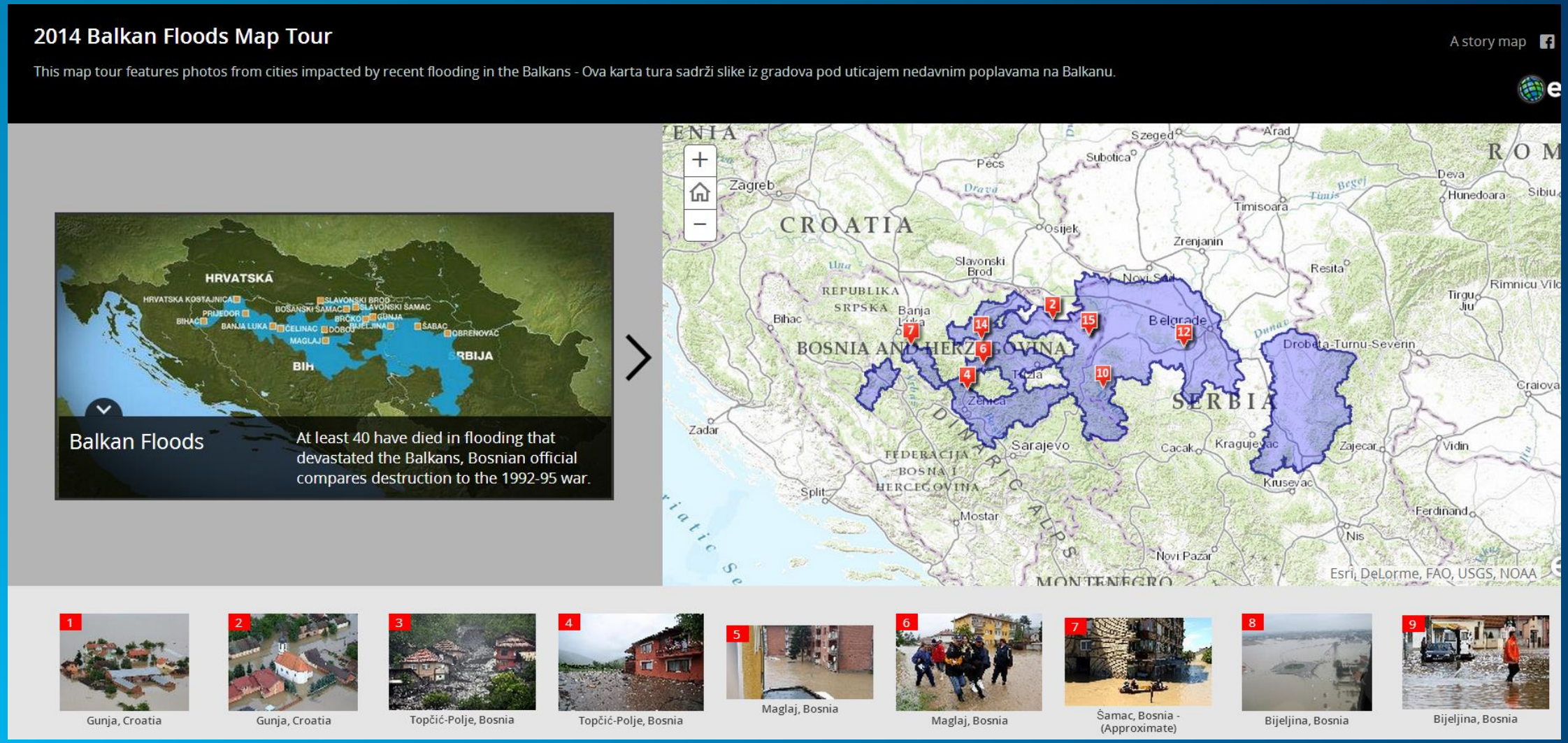
# Local Impact Map

http://solutions.arcgis.com/emergency-management/help/impact-map/

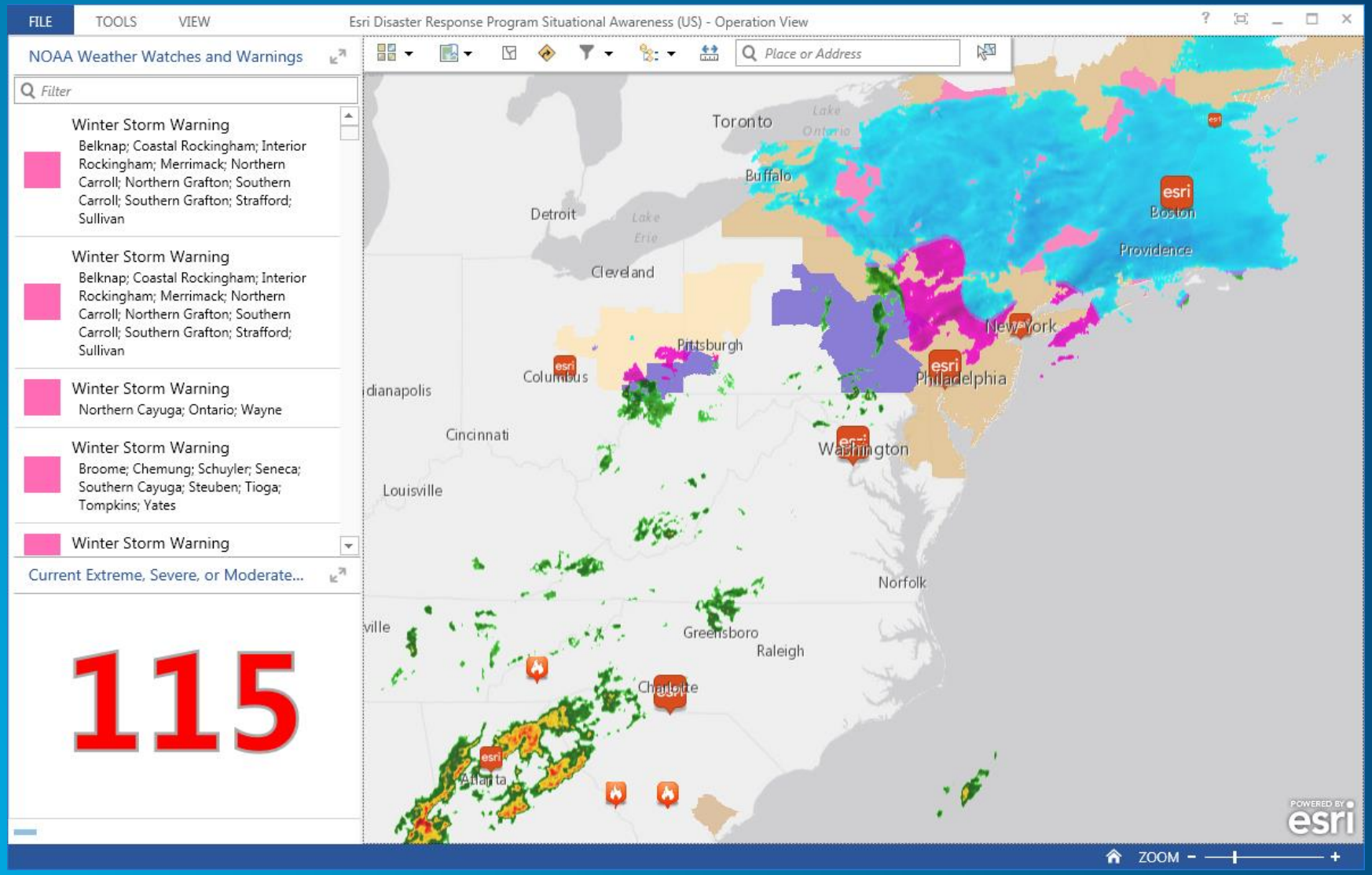


# Map Tour

http://storymaps.arcgis.com/en/app-list/map-tour/

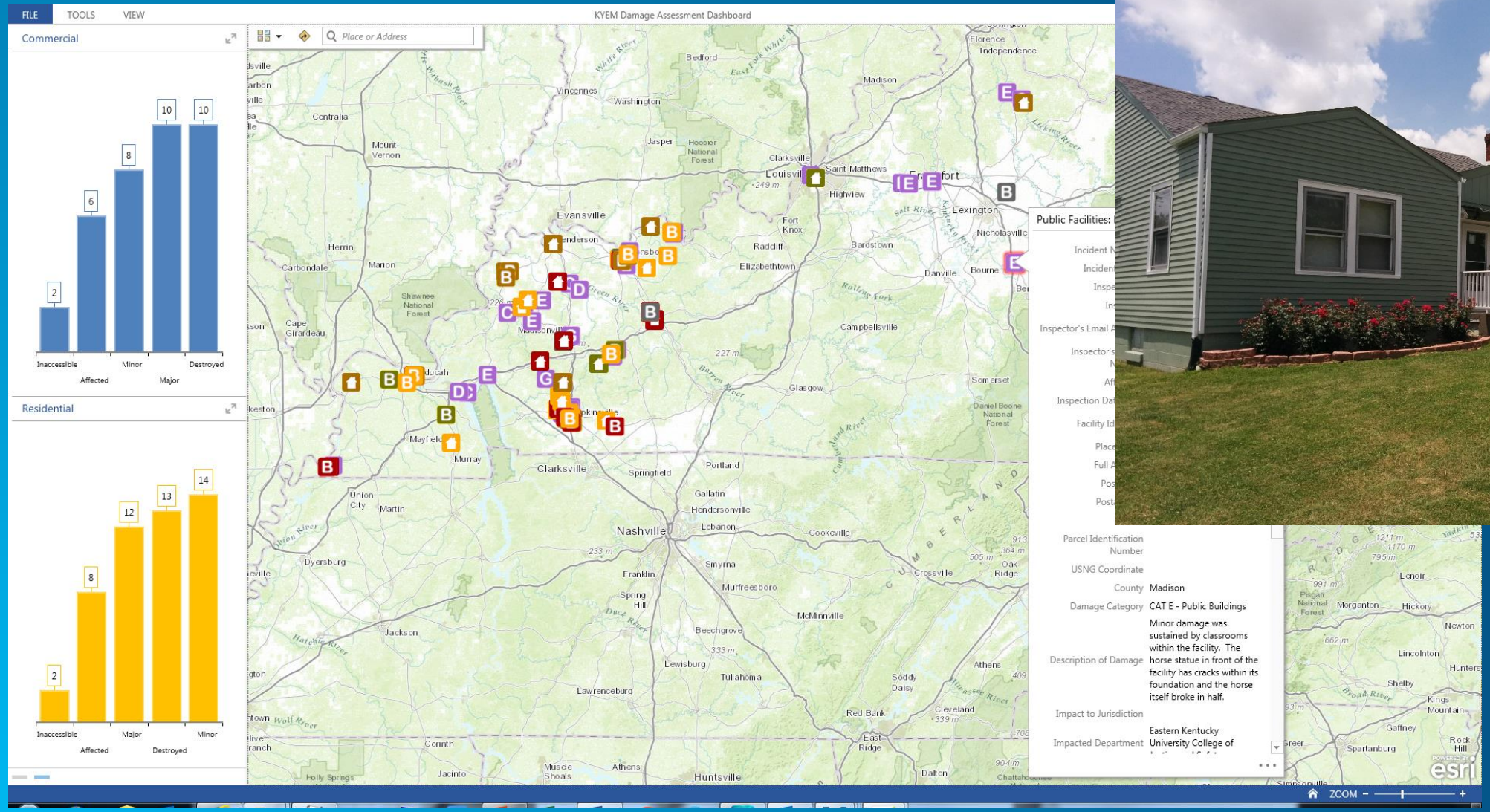


# Situational Awareness



# Mobile Data Collection / Damage Assessment

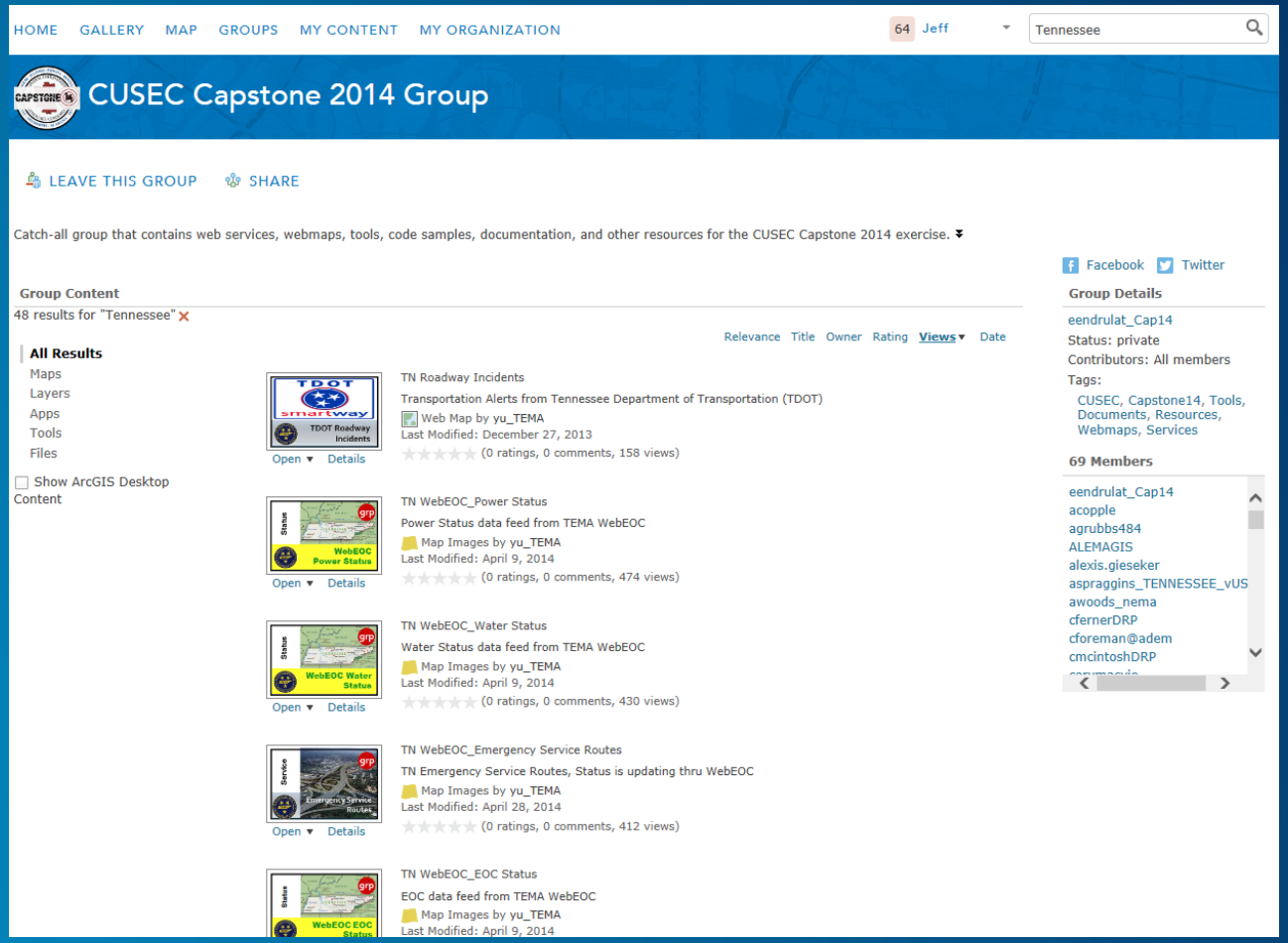
http://solutions.arcgis.com/emergency-management/help/damage-assessment/



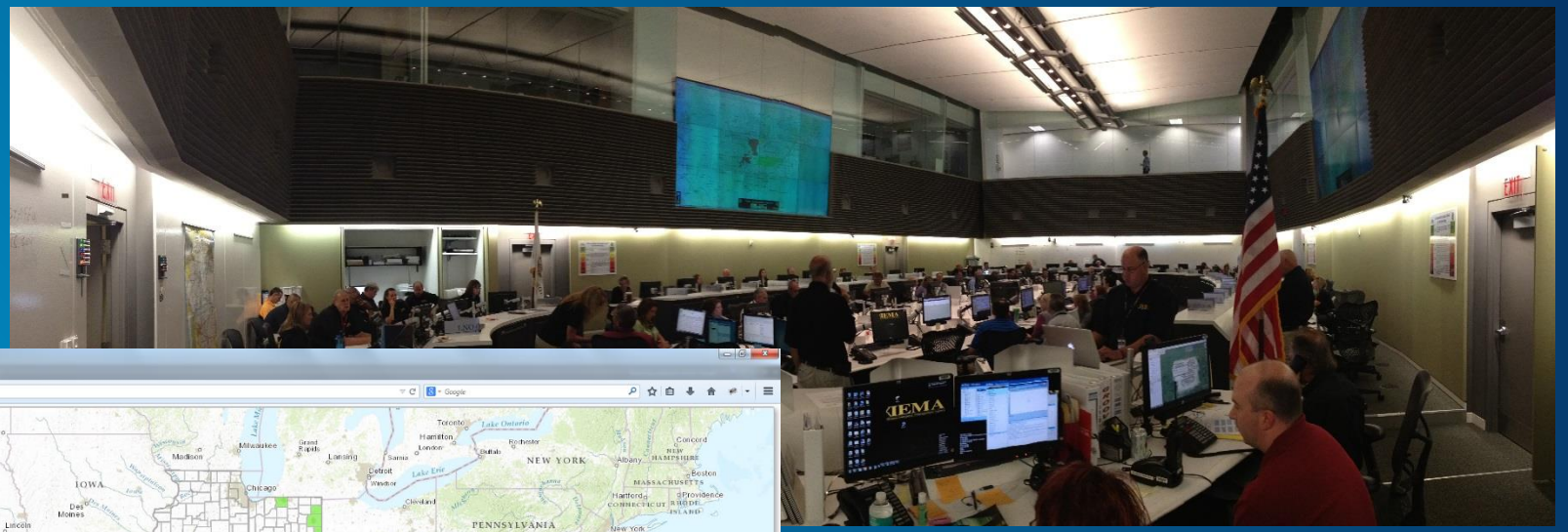
# Information Sharing

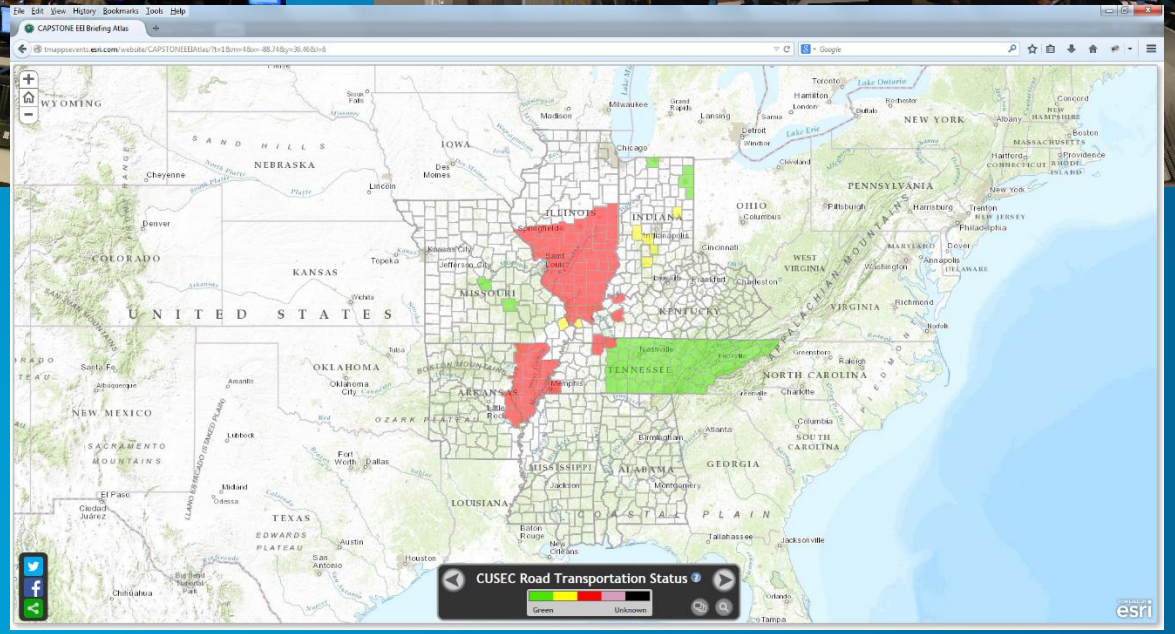
http://solutions.arcgis.com/emergency-management/help/arcgis-online-for-em/

- ArcGIS Online Model Organization
- Governance
- Tagging Scheme



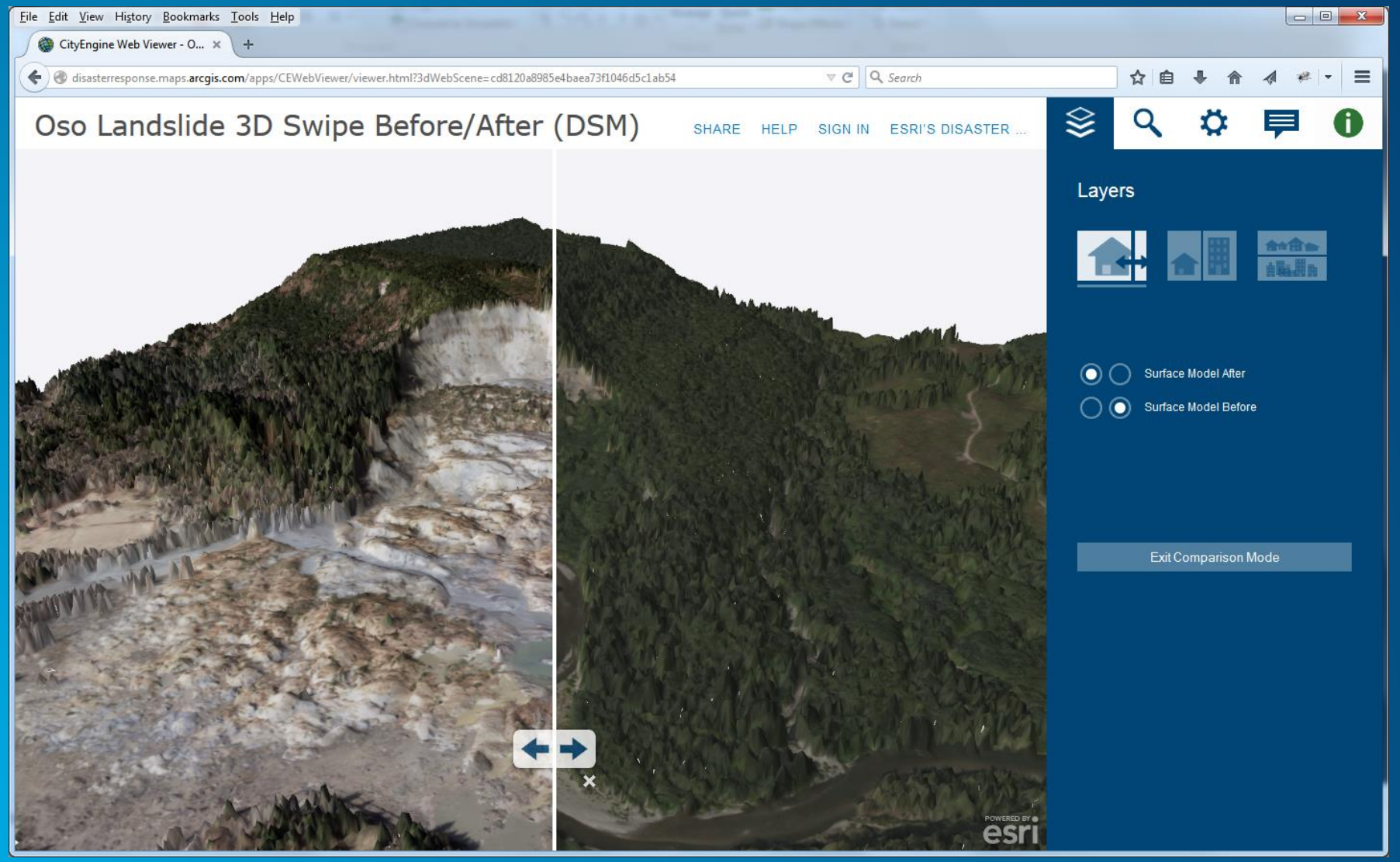
# Briefing Presentations




Illinois

# Pre and Post Event Imagery



# Successful Response Starts with a Web Map

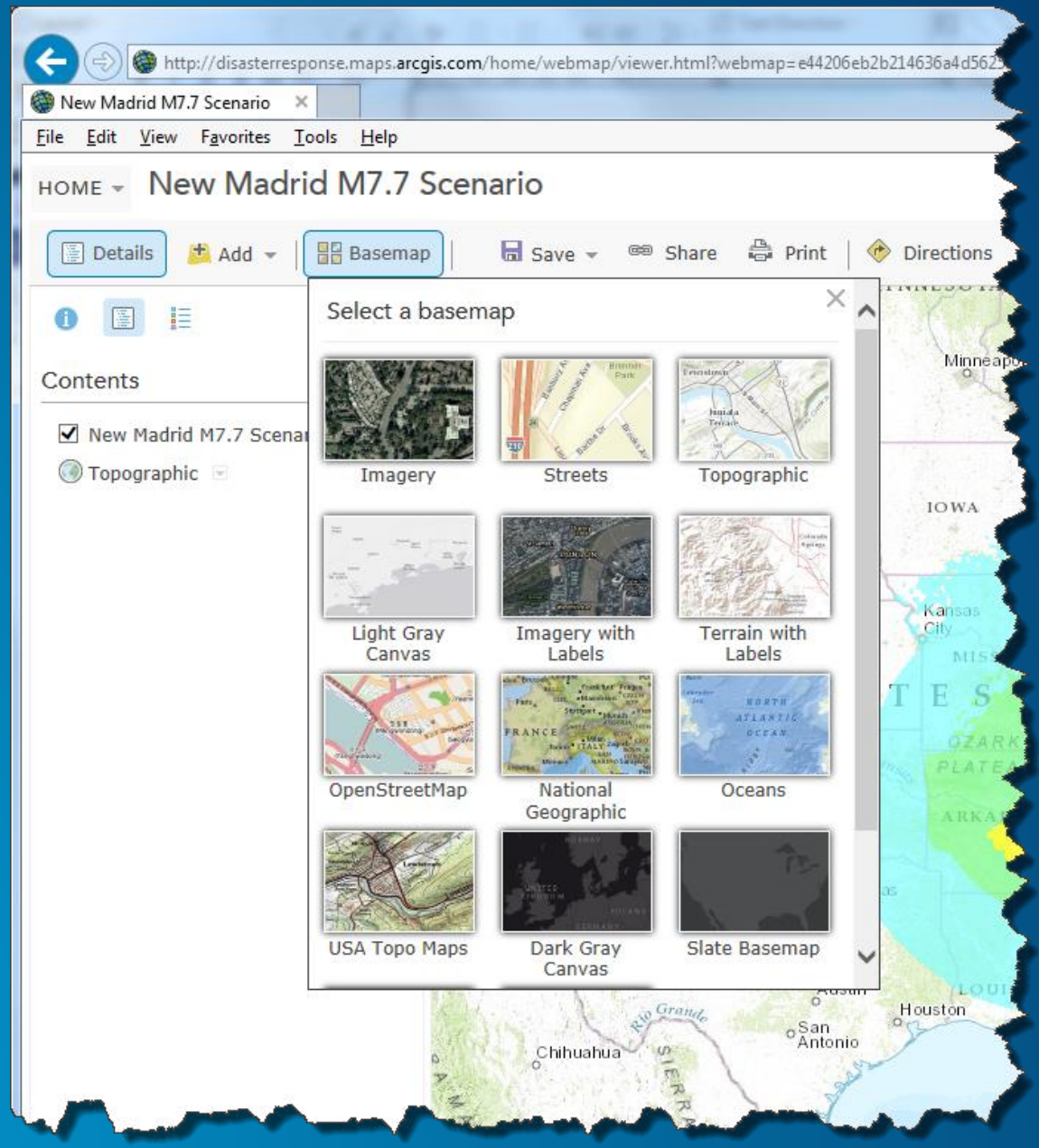
## Get to know the web map

- Content
- Style
- File
- Tools
- Configuration

# Content

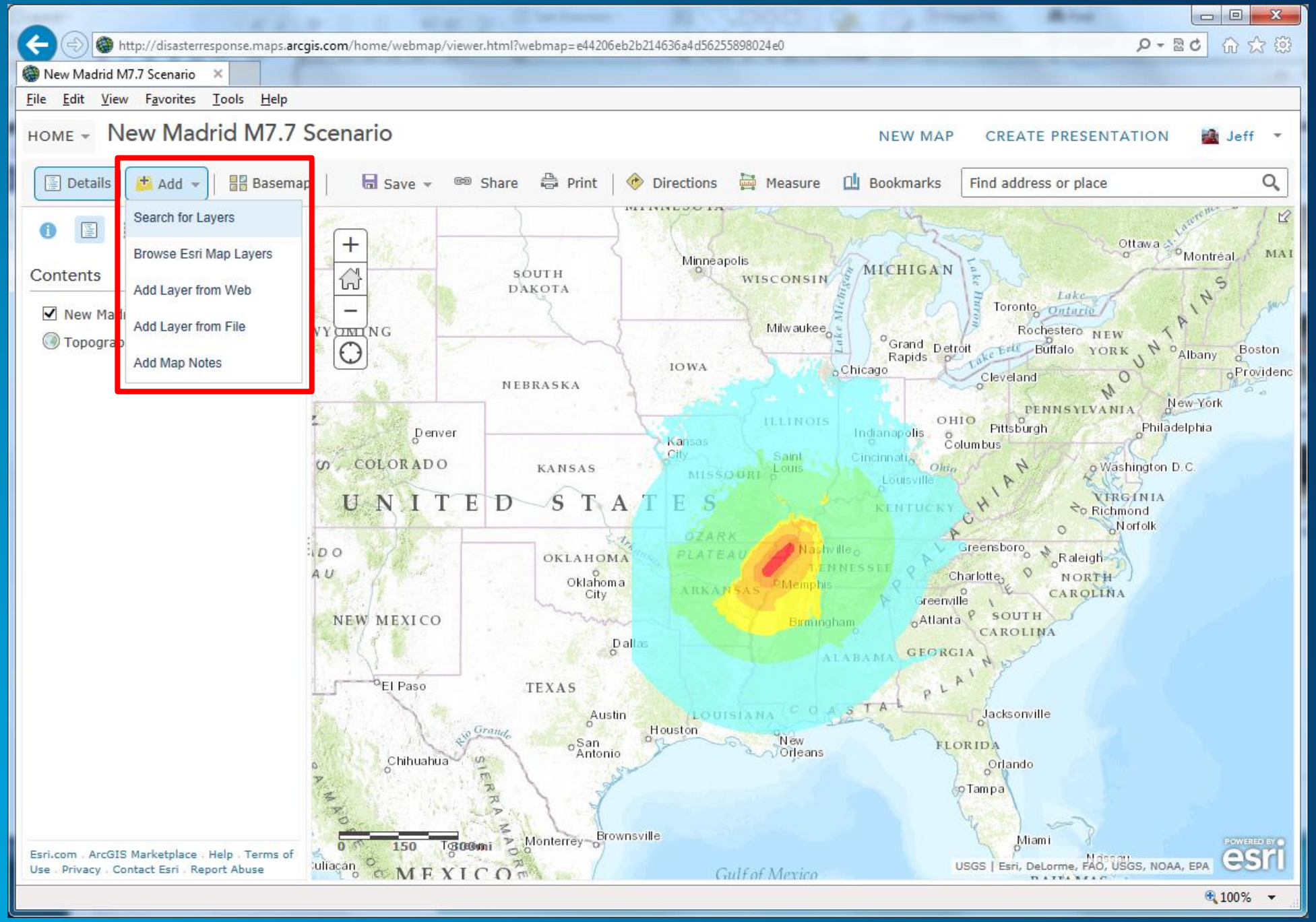
## Basemaps

- **ArcGIS Online**
- **Use your own**



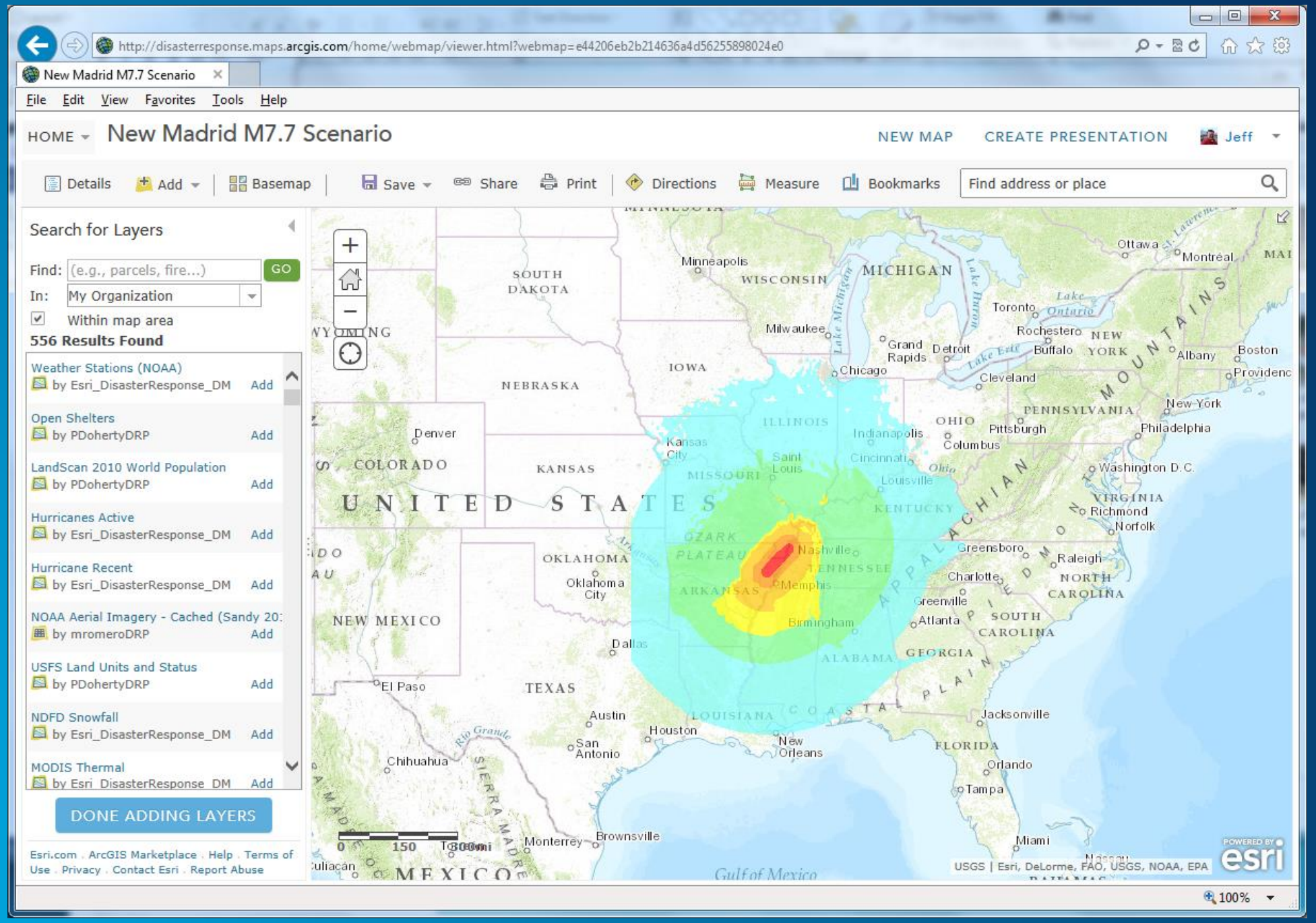
# Content

## Layers



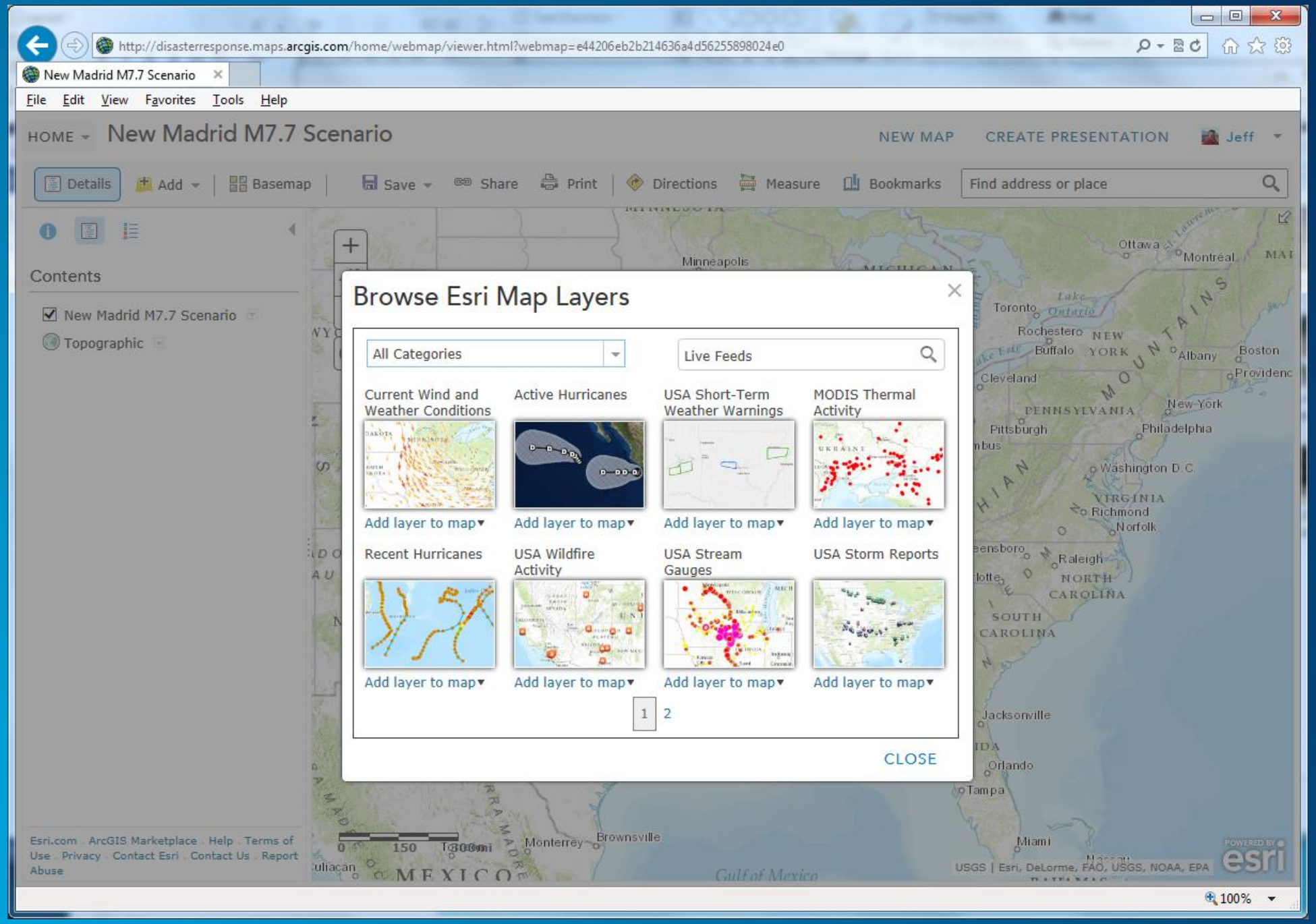
# Content

## Layers



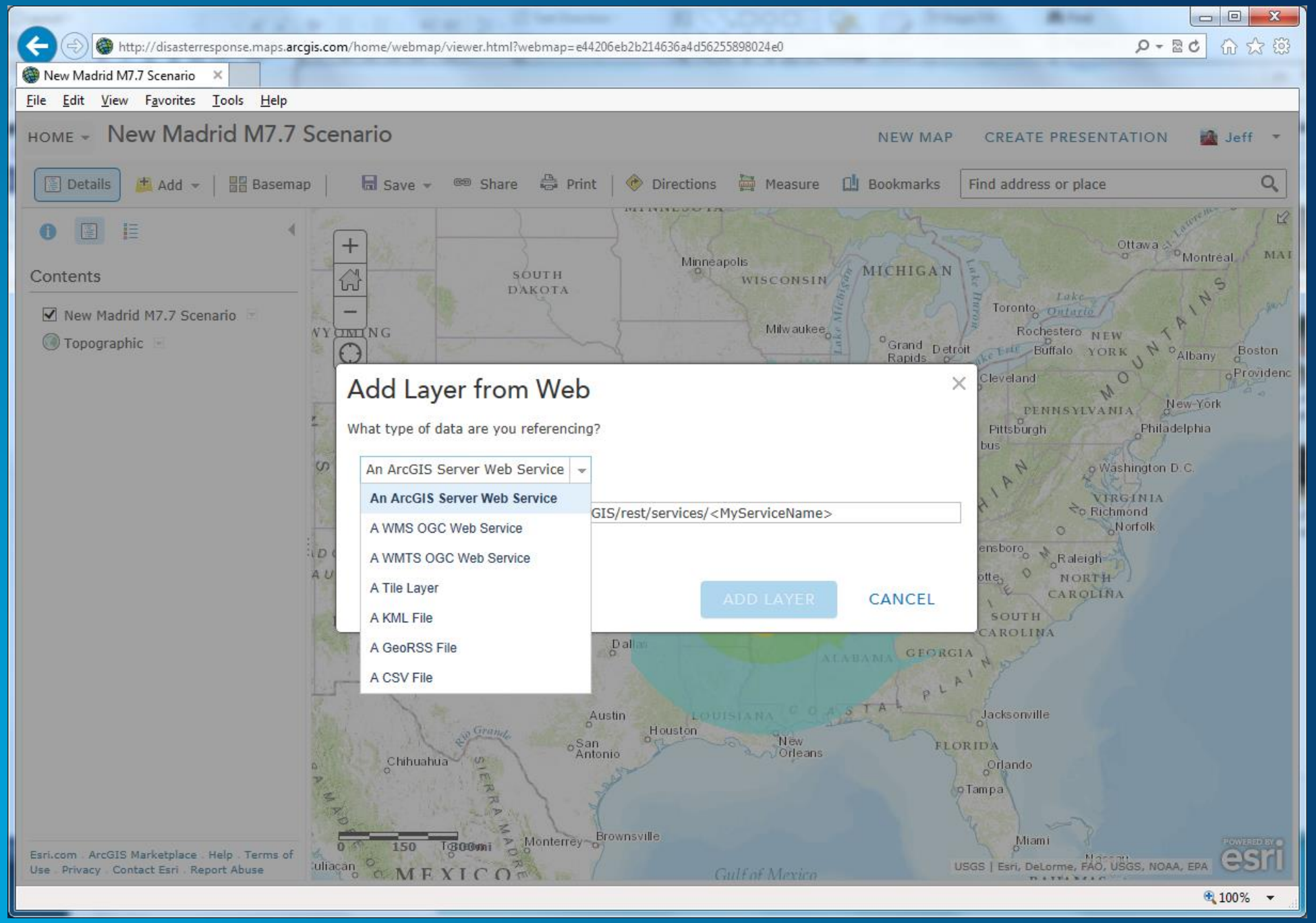
# Content

## Layers



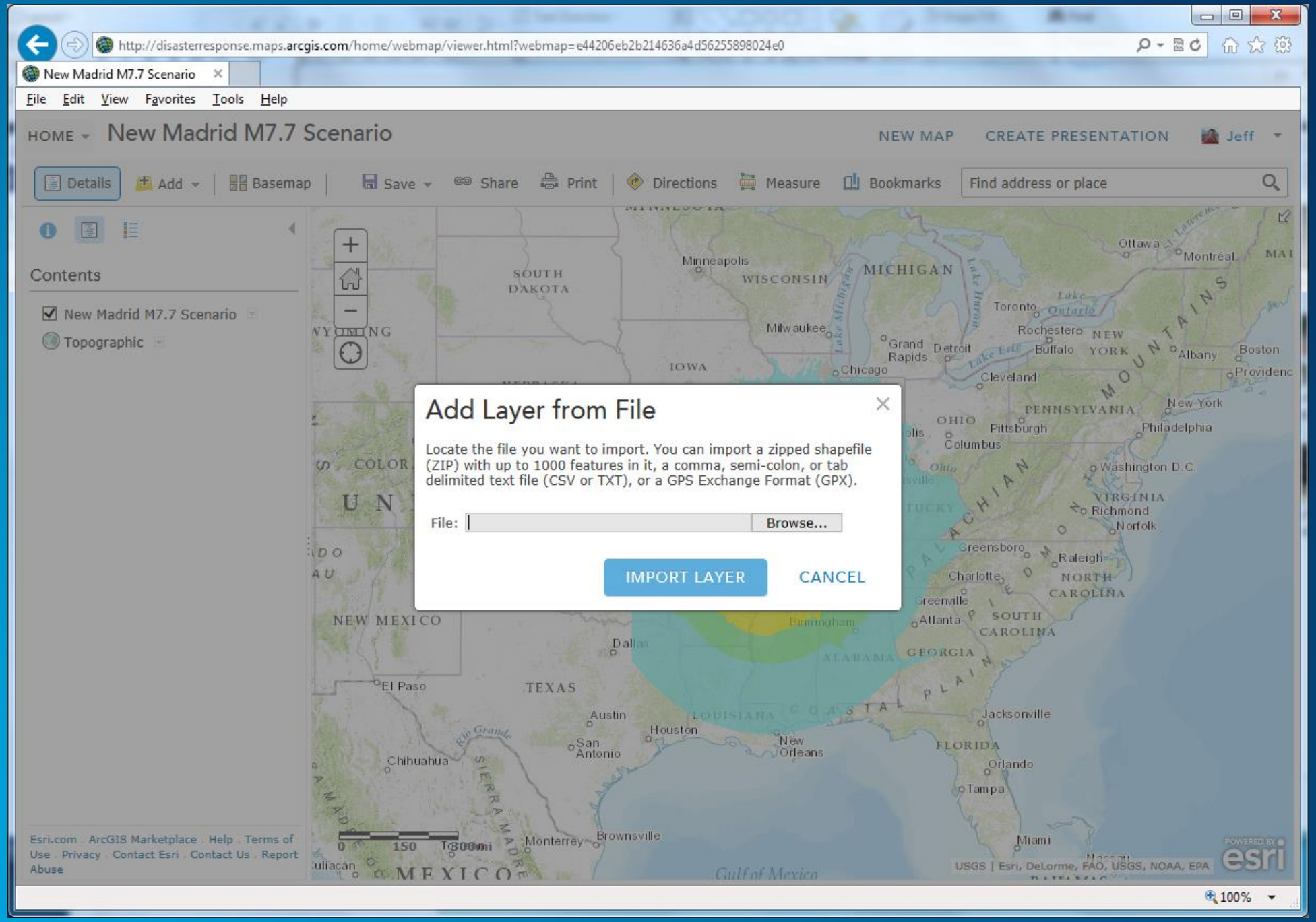
# Content

## Layers



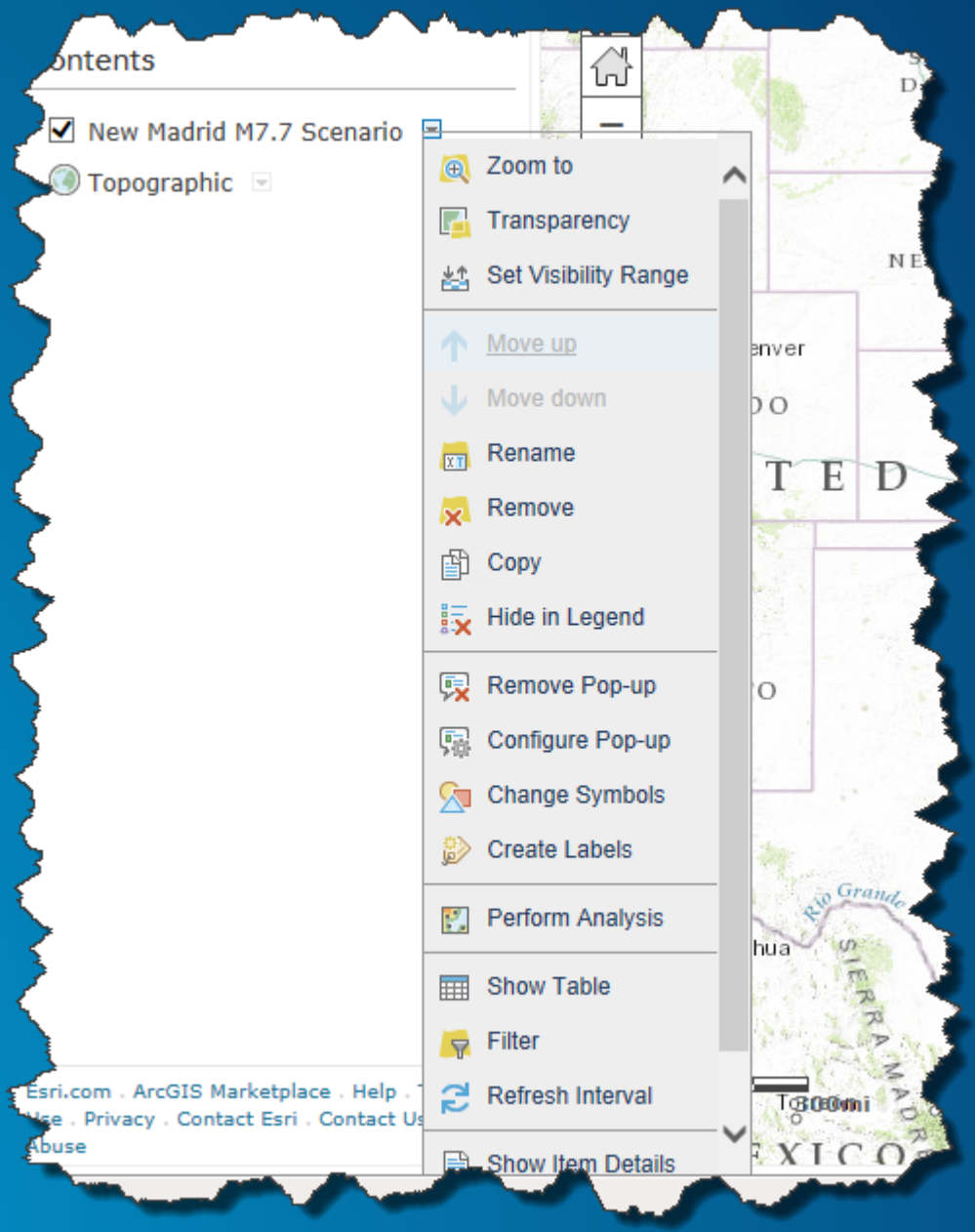
# Content

## Layers



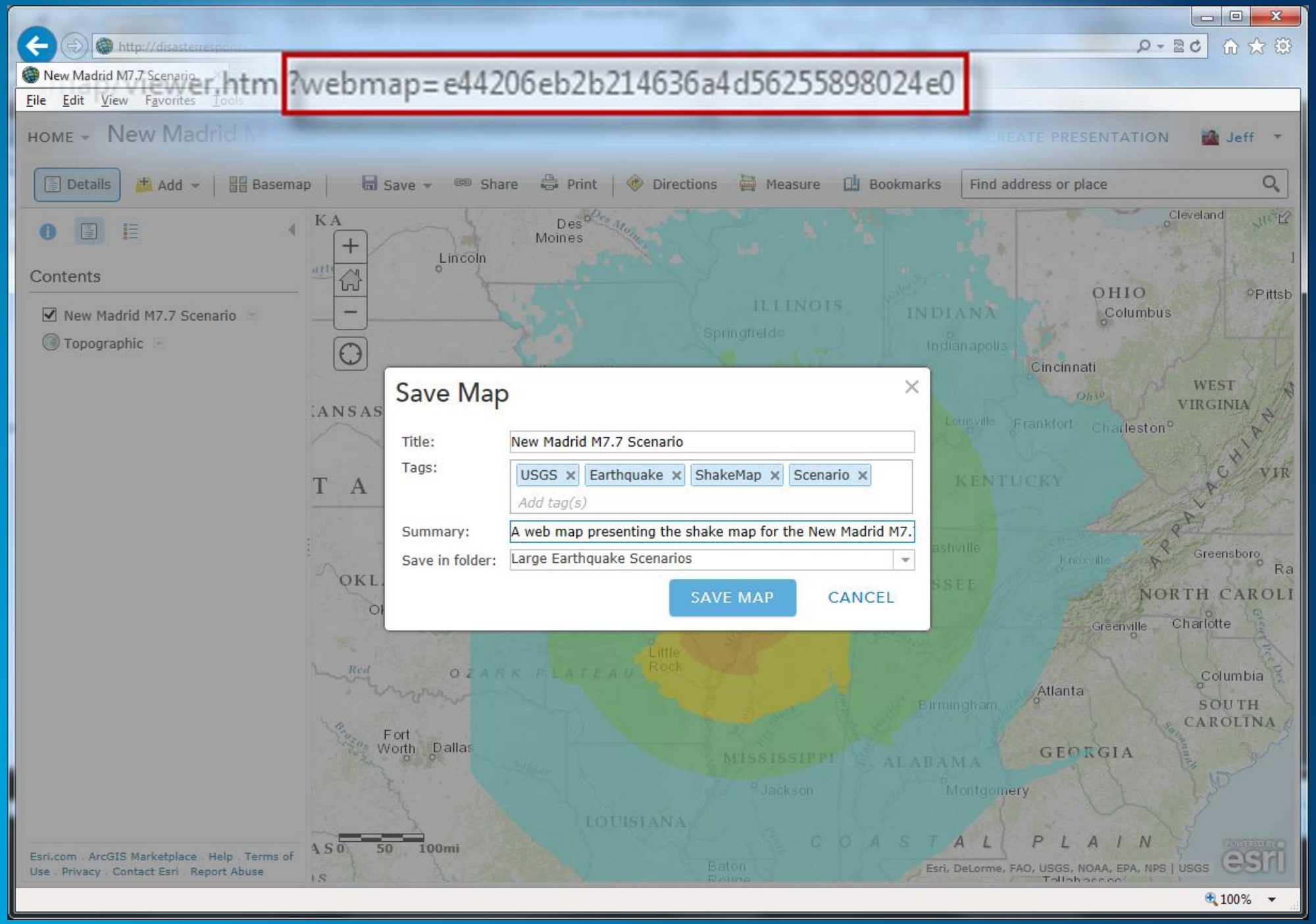
# Style

- Transparency
- Visibility range
- Pop-up
- Symbols
- Labels
- Filters
- Refresh Internal



# File

## Id


New Madrid M7.7 Scenario
viewer.htm?webmap=e44206eb2b214636a4d56255898024e0
File Edit View Favorites Tools
HOME
CREATE PRESENTATION
Jeff
Details
Add
Basemap
Save
Share
Print
Directions
Measure
Bookmarks
Find address or place
Contents
New Madrid M7.7 Scenario
Topographic
Save Map
Title:
New Madrid M7.7 Scenario
Tags:
USGS
Earthquake
ShakeMap
Scenario
Add tag(s)
Summary:
A web map presenting the shake map for the New Madrid M7.
Save in folder:
Large Earthquake Scenarios
SAVE MAP
CANCEL
Des Moines
Lincoln
Springfield
Indianapolis
Cincinnati
Columbus
Cleveland
Pittsb
Louisville
Frankfort
Charleston
Knoxville
Greensboro
Greenville
Charlotte
Atlanta
Birmingham
Columbia
Little Rock
Fort Worth
Dallas
Jackson
Montgomery
ILLINOIS
INDIANA
OHIO
WEST VIRGINIA
KENTUCKY
NORTH CAROLI
SOUTH CAROLINA
GEORGIA
MISSISSIPPI
ALABAMA
LOUISIANA
OZARK PLATEAU
APPALACHIAN
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Esri, DeLorme, FAO, USGS, NOAA, EPA, NPS | USGS
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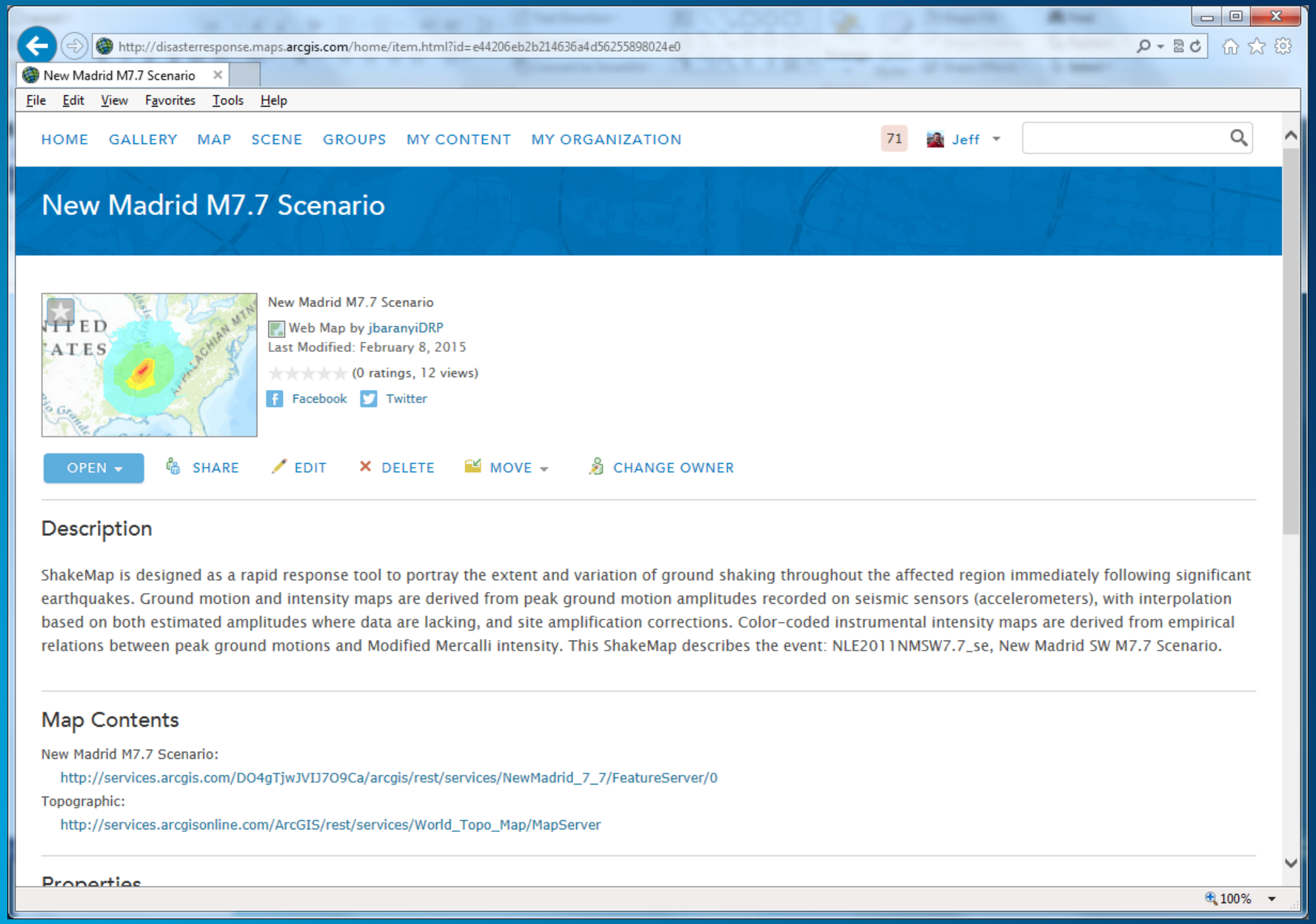
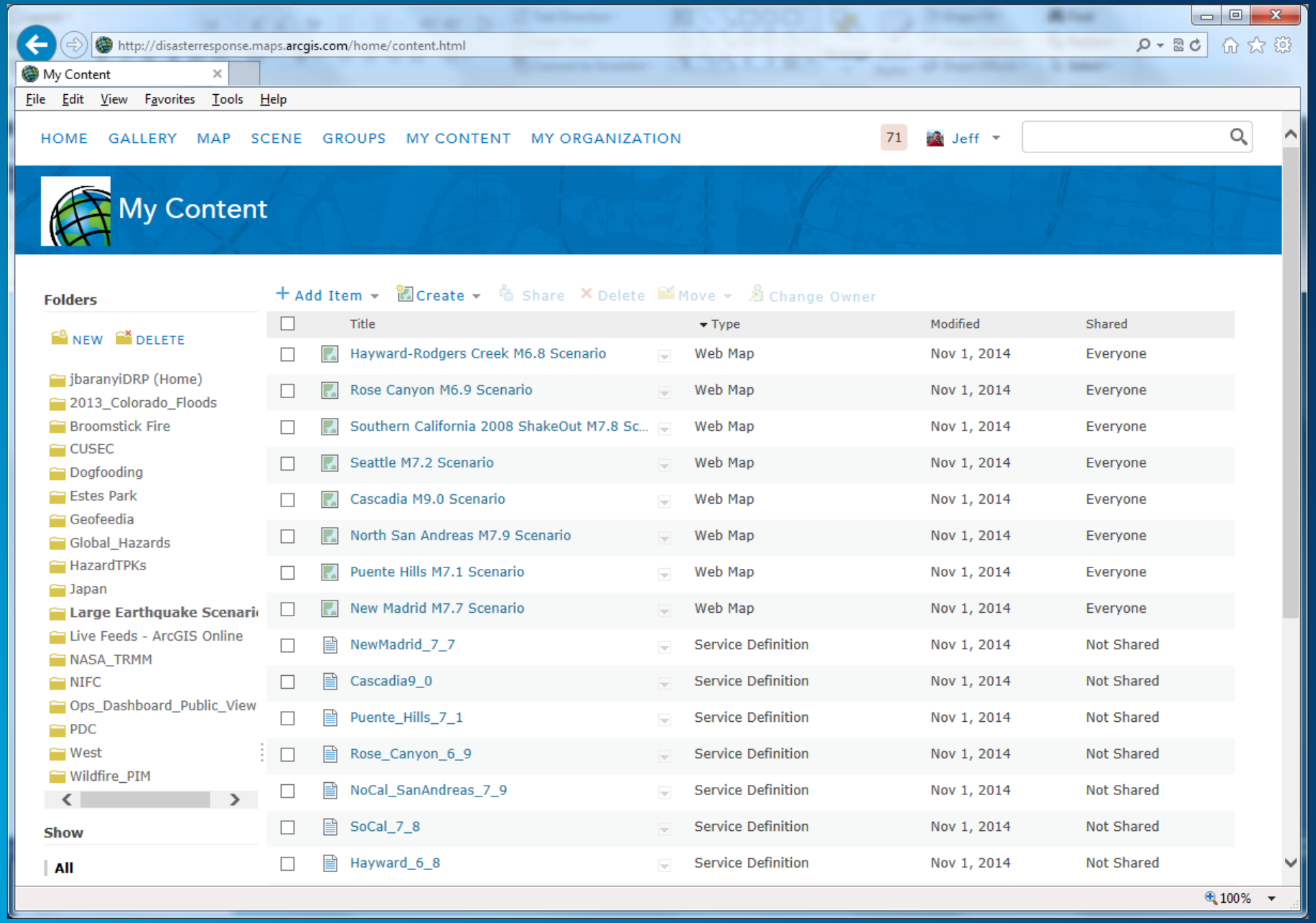
# File

## Properties



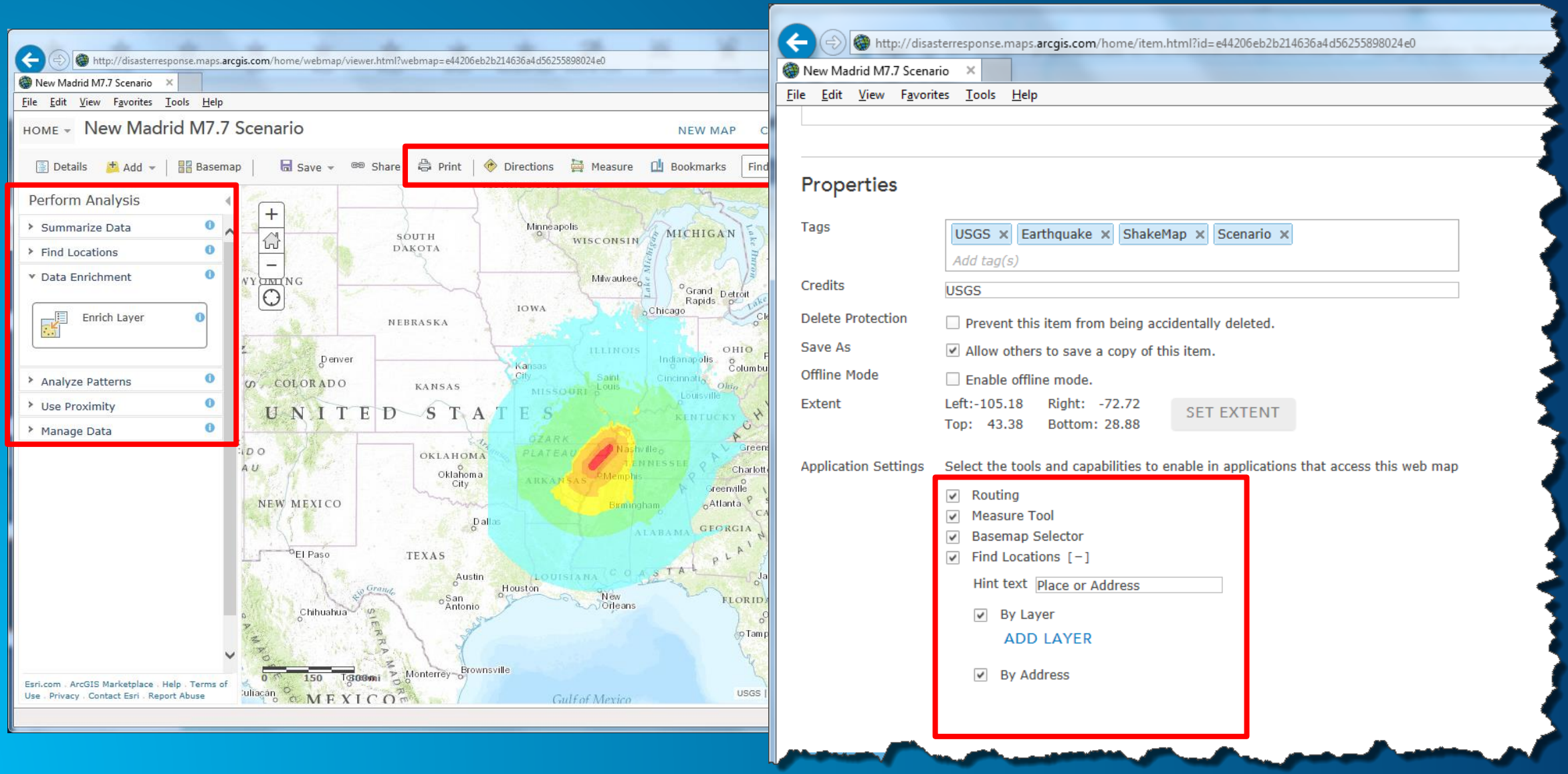
# File

## Stored in the cloud



# Tools

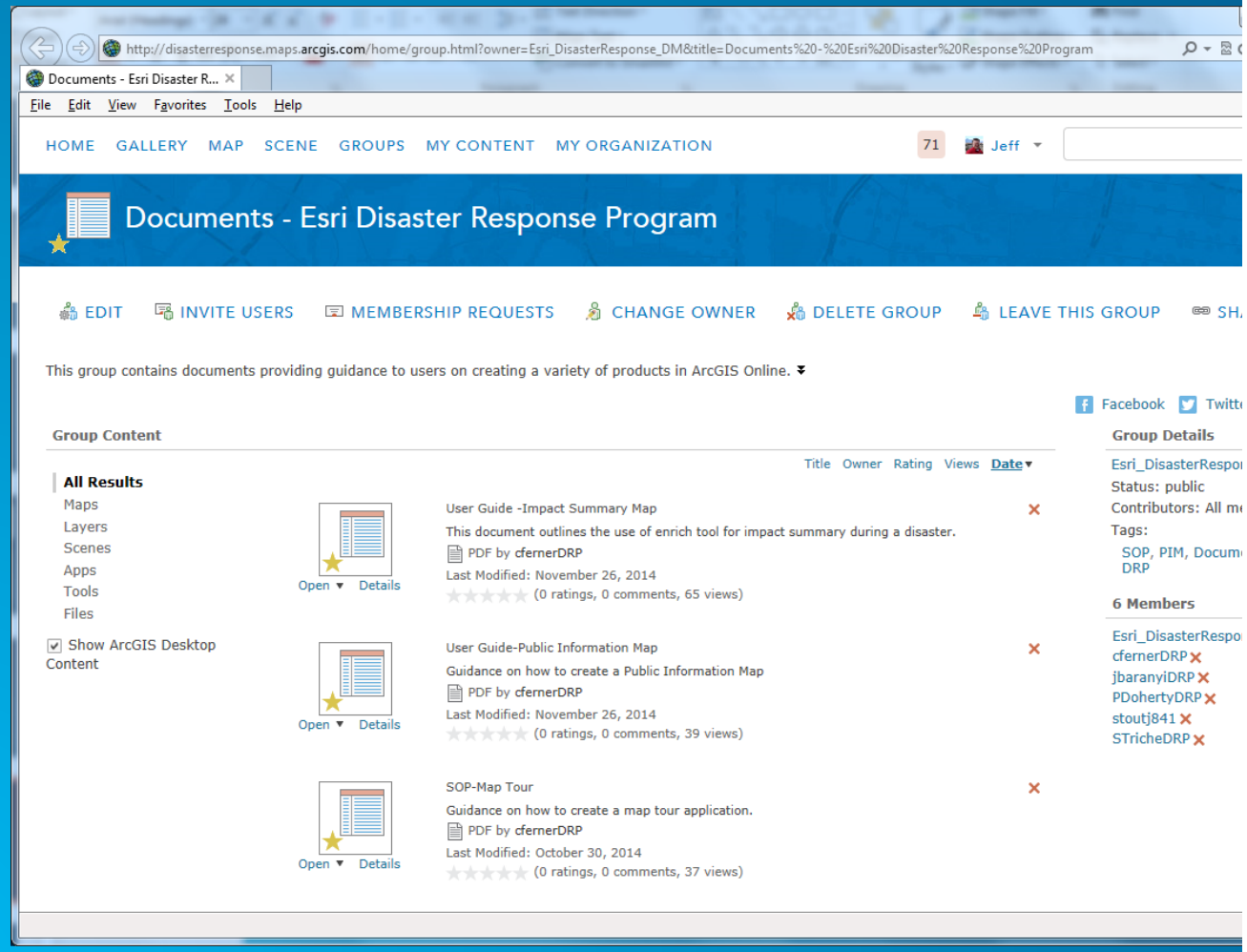
## Map tools, analytic tools, and application tools to help you get your job done



# Web Maps Drive the Configuration of ArcGIS Apps

# User Guides - http://bit.ly/XTeDsB

## Documents to help guide to make common products




Public Information Map

August 28, 2014

### Public Information Map

A Public Information Map is any map that generally allows a non-GIS audience to view data that is available publically and related to an ongoing or forecasted incident / event. For example, on www.esri.com/disaster we have public information maps that are produced using an ArcGIS Online web map and the Public Information Template.

In this section we present a few options:

- Create A New Public Information Map
- Manage an Existing Public Information Map (Esri Disaster Response Program example)
- Embed A Public Information Map

**Why use the ArcGIS Online Public Information Template?**

With the Public Information template, your web app can display data layers, detailed information as well as what people are saying through location-based social media (Flickr, Twitter, and Instagram). Mapping the social data provides insight into what people are saying and where they are saying it. The recent redesign of this template includes a responsive design, addition of Instagram as a feed, a new configuration wizard, and a few enhancements made by our Users. Responsive web design indicates that an application will fluidly change and *respond* to fit any screen or device size. This allows for a more elegant application and often provides a simpler and concise interface for the end user.

**Resources for Public Information Template:**
ArcGIS For Emergency Management-Public Information Map - http://solutions.arcgis.com/emergency-management/help/public-information/

# User Guides

- Public Information
- Impact Summary Map
- Map Tour
- Situational Awareness
- Field Data Collection
- Planning Maps / Assignments
- Crowd Sourcing
- Briefing Presentations
- Briefing Journals
- Information Sharing / Collaboration
- Pre and Post Event Imagery

# Local Impact Map User Guide

- Enrich Impact Area
- Make a web application
- Configure the Local Impact Map

# Chi Smith

GIS Manager, CalOES

# Questions?

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February 9–10, 2015 | Washington, DC

esri

# Don’t forget to complete a session evaluation form!

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# Print your customized Certificate of Attendance!

Printing stations located on L St. Bridge, next to registration

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# GIS Solutions EXPO, Hall D

Monday, 12:30pm – 6:30pm

Tuesday, 10:45 AM–4:00 PM

- Exhibitors
- Hands-On Learning Lab
- Technical & Extended Support
- Demo Theater
- Esri Showcase

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# Networking Reception:

## *National Museum of American History*

Tuesday, 6:30 PM–9:30 PM

Bus Pickup located on L Street

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Understanding our world.