

Launching disasters.data.gov

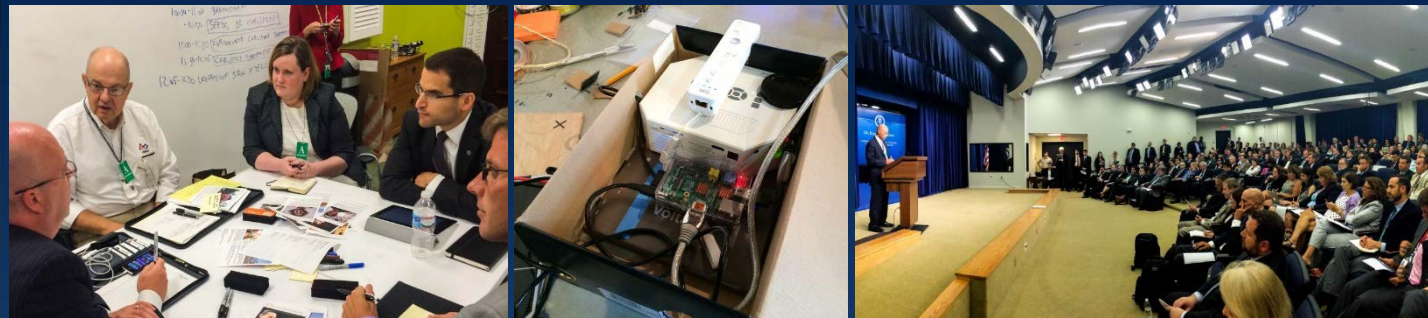
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Subcommittee on Disaster Reduction Meeting January 2015



White House Innovation for Disaster Response and Recovery Initiative



- Launched by the Administration in the wake of Hurricane Sandy to find effective ways technology can empower survivors, first responders, and government at all levels with **critical information and resources**
- Convene technologists, entrepreneurs, other stakeholders: Datapaloozas, Demo Days, workshops, commitments for open data and tools
- Disasters.data.gov is the Initiative's first major online presence



Data.gov continues to grow

The screenshot shows the White House Open Government Initiative website. At the top, it says "the WHITE HOUSE PRESIDENT BARACK OBAMA" and "Contact Us | Get Email Updates". The main navigation includes "BRIEFING ROOM", "ISSUES", "THE ADMINISTRATION", "PARTICIPATE", and "1600 PENN". The page title is "Open Government Initiative" with the tagline "TRANSPARENCY • PARTICIPATION • COLLABORATION" and a "OPEN GOV" logo. A central text block reads: "My Administration is committed to creating an unprecedented level of openness in Government. We will work together to ensure the public trust and establish a system of transparency, public participation, and collaboration. Openness will strengthen our democracy and promote efficiency and effectiveness in Government." Below this is a quote from President Obama, dated 01/23/09. The bottom section features "LATEST BLOG POSTS" with two entries: "Using Citizens Engagement to Solve National Problems" (dated June 27, 2014) and "OSTP's Own Open Government Plan" (dated June 2, 2014). There are also "PARTICIPATE NOW" buttons for "Create and Sign Petitions on WhiteHouse.gov" and "JOIN THE CONVERSATION" on "Challenge.gov".

- Data.gov platform launched in 2009 with 47 datasets: part of the Open Government Initiative
- Executive Order May 2013: Making Open and Machine Readable the New Default for Government Information <https://project-open-data.cio.gov/policy-memo/>
- As of January 2015:
 - 138,381 datasets and collections
 - 349 citizen apps
 - 409 APIs
 - 89 agencies



Today's briefing

DATA.GOV

DATA TOPICS - IMPACT APPLICATIONS DEVELOPERS CONTACT

DISASTERS

Types of Disasters - Data Get Involved - Apps & Tools Blog

This portal, first announced at the [White House Innovation for Disaster Response and Recovery Initiative Demo Day](#), features disaster-related datasets, tools, and updates on how to get involved. We look forward to your [input](#) to help make this site a valuable resource for the community.

Map of Current Disaster Declarations (view larger map or get the data)

esri

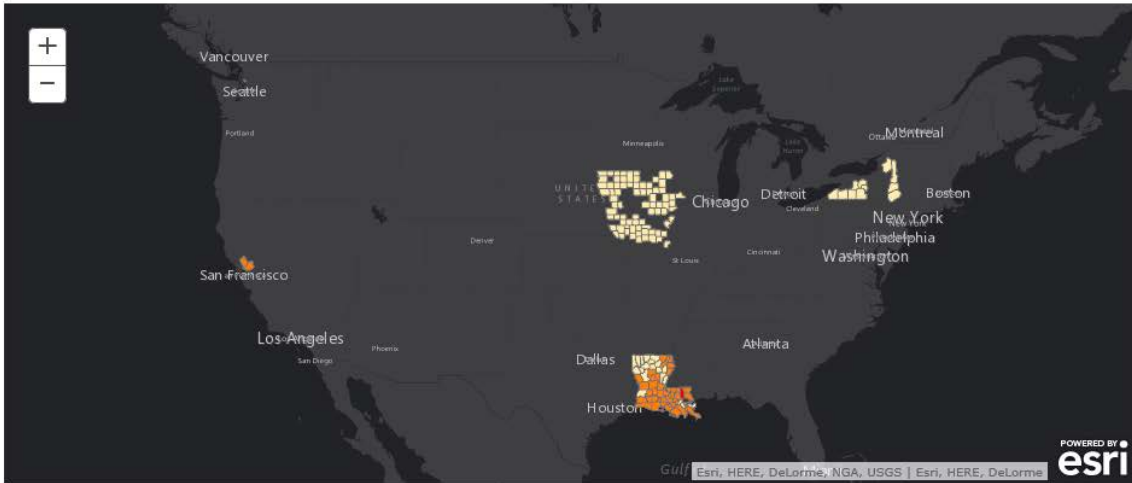
- Demo / walk through of [disasters.data.gov](#) features unveiled Dec. 15, 2014
- Feedback and discussion on future updates: how to make the site most useful
- Q&A and best practices from [data.gov](#) team



DISASTERS

- [Types of Disasters ▾](#)
- [Data](#)
- [Get Involved ▾](#)
- [Apps & Tools](#)
- [Blog](#)

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Map of Current Disaster Declarations ([view larger map](#) or [get the data](#))

FEATURED DATA

Watches, Warnings, and Advisories

National Weather Service Storm Prediction Center feed of watches, warnings and advisories that are currently in force in the United States.

National Structures Dataset (NSD)

The United States Geological Survey (USGS) structures data includes the name, function, location, and other characteristics of facilities, collected based on disaster planning and emergency response needs.

Next Generation Radar (NEXRAD)

Localtime: Map of weather radar sites gives access to data and products jointly owned by the National Oceanic and Atmospheric Administration, Federal Aviation Administration, and Department of Defense.

[See More](#)

FEATURED TOOLS



Twilio is open sourcing a **Rapid Response Kit** for developers to stand up communications solutions during an emergency response, featuring SMS-powered volunteer signup and survivor surveys, flexible push and pull conference calling, and phone tree configuration. Users can start with \$500 free credit by visiting Twilio.org to clone or download the Rapid Response Kit.



TaskRabbit Needs for First Responders is a web portal offering a real-time marketplace to connect local service providers with those that need assistance, without any fees. Those interested in joining the pilot program can email DisasterRelief@TaskRabbit.com.



The **American Red Cross** provides different disaster preparedness apps in English and Spanish to deal with first aid emergencies, weather emergencies, and natural disasters. Users can download the apps for free at <http://www.redcross.org/mobileapps>.

[See More](#)

GET INVOLVED

With the launch of disasters.data.gov, the Administration is announcing new opportunities and ways to get involved:



Call to Action for Data Stewards: Help us build a culture of open data to empower technologists, entrepreneurs, governments, volunteers, survivors, and community leaders with information that can improve disaster preparedness.



Innovator Challenge: The Administration is unveiling Innovator Challenges that highlight pressing needs from the disaster preparedness community. The first challenge asks innovators across the Nation, "How might we leverage real-time sensors, open data, social media, and other tools to help reduce the number of fatalities from flooding?"



Join the Movement: Whether you're visiting this website as a tech entrepreneur, developer, hardware tinkerer, journalist, government official, survivor, first responder, or another role, there are numerous ways to join the Innovation for Disaster Preparedness effort.

- Featured data, tools, ways to get involved, and blogposts all accessible from main page scrolling and navigation tabs



DISASTERS

Types of Disasters ▾

Data

Get Involved ▾

Apps & Tools

Overview

Earthquakes

Floods

Hurricanes

Severe Winter Weather

Tornadoes

Wildfires

- Series of “landing pages” for different types of disasters – more categories to be added

- Brings together data, apps/tools, ways to get involved (e.g., future Tornado-related challenge statements would be linked to landing page)



DISASTERS

[Types of Disasters ▾](#) [Data](#) [Get Involved ▾](#) [Apps & Tools](#) [Blog](#)

Tornadoes

Tornadoes are created from powerful thunderstorms, and can devastate a neighborhood in seconds with whirling winds reaching 300 miles per hour. Here you'll find a "starter list" of tools and open data that can support communities in the event of a tornado. If there are additional free tools or open data that can be shared, please email us at disastertech@ostp.gov.

FEATURED DATA

[Database of Tornado, Large Hail, and Damaging Wind Reports](#) Composite track information regarding tornadoes, large hail, and damaging winds for the period 1950-2006.

[Severe Weather Data Inventory \(SWDI\)](#) This is an integrated database of severe weather records for the United States.

[United States Tornado Touchdown Points](#) This map layer shows tornado touchdown points in the United States, Puerto Rico, and the U.S. Virgin Islands, from 1950 to 2004.

[See More](#)



Federal datasets are subject to the U.S. Federal Government **Data Policy**. Non-federal participants (e.g., universities, organizations, and tribal, state, and local governments) maintain their own data policies. Data policies influence the usefulness of the data. [Learn more](#) about how to search for data and use this catalog.

**Order by:**

Datasets ordered by Popular

Topics:

[Disasters](#)**Filter by location**[Clear](#)

112 datasets found

FEMA National Flood Hazard Layer - Web Map Service (WMS) 🔥

Federal Emergency Management Agency, Department of Homeland Security — "FEMA NFHL" is a general application that provides for the display of flood hazard zones, floodways, Coastal Barrier Resources System and Otherwise Protected Area...

[KMZ](#)**Federal**

DISASTERS

[Types of Disasters](#) [Data](#) **[Get Involved](#)** [Apps & Tools](#) [Blog](#)

Get Involved

Strengthening our Nation's resiliency, disaster preparedness, and recovery. Every member contributes, including individuals, communities, the private and non-profit organizations, and all levels of government.

Whether you're a data steward who can help address disaster preparedness challenges, an innovator who can help address disaster preparedness challenges, or a community leader who can help address disaster preparedness challenges, we are excited to work with you.

Overview

Call to Action: Open Data

Innovator Challenge

Join the Movement

responsibility. Every member contributes, including individuals, communities, the private and non-profit organizations, and all levels of government.

Whether you're a data steward who can help address disaster preparedness challenges, an innovator who can help address disaster preparedness challenges, or a community leader who can help address disaster preparedness challenges, we are excited to work with you.

With the launch of disasters.data.gov, the Administration is announcing new opportunities and ways to get involved:



Call to Action for Data Stewards: Building a Culture of Open Data

Data sets relevant to disaster preparedness (including prevention, protection, mitigation, response, and recovery) have traditionally been closed by default to the public. To help empower technologists, entrepreneurs, governments, volunteers, survivors, and community leaders with information that can improve individual and community preparedness, the Administration is working with stakeholders to open a series of disaster related data sets:

- Locations of schools and childcare centers





Calling All Data Stewards: Help Build a Culture of Open Data

Data sets relevant to disaster preparedness (including prevention, protection, mitigation, response, and recovery) have traditionally been closed by default to the public. To help empower technologists, entrepreneurs, governments, volunteers, survivors, and community leaders with information that can improve individual and community preparedness, the Administration is working with stakeholders to open a series of disaster related data sets:

- Locations of schools and childcare centers
- Locations of hospitals and medical care facilities
- Locations of nursing homes
- Locations of PODs (Points of Distribution) for emergency supplies in the wake of a disaster
- Neighborhood names / borders
- Evacuation routes and pick-up sites
- Locations of food trucks
- Data about which local businesses are open in the wake of a disaster
- Data and metrics about how open data sets are used

If you are a data steward interested in joining this Call to Action, please contact the White House Innovation for Disaster Response and Recovery Initiative at disastertech@ostp.gov.

Stay tuned to our [blog](#) to find out how cities across the nation are stepping up to this Call to Action!





Innovator Challenge: How Might We Help Reduce Flooding Fatalities?

Floods, especially flash floods, kill more people each year than hurricanes, tornadoes, or wind storms on average. Historically, over half of all flood deaths have occurred when vehicles are swept away due to moving water. You can find more about flood damage and data from [Ready.gov/floods](https://www.ready.gov/floods), the National Oceanic and Atmospheric Administration's [Flood Safety Page](#), and our [Floods](#) page.

An example of the toll of flash flooding can be seen from recent experiences in Arizona:

We've seen first-hand the deadly results of flash floods. The challenge is knowing where and when exactly the floods will take place and staying in front of the impending natural disaster. With no control over mother nature, we must continue to be aggressive with our preventative messaging through both traditional and social media, constantly highlighting the dangers of flash flooding.

Once the flooding does take place, it is imperative that all departments, from public safety to transportation, have enough resources on hand and the flexibility to move resources as necessary.

We have always had to play defense with regards to nature and what it brings to us in the way of the monsoon rains, but with social media and real time updates through the National Weather Service, we have the opportunity to be on offense in both predicting where the danger will be and educating the public on those dangers.

-Deputy Chief Chris Anderson,
Operations / Emergency Management, Tucson Fire Department

To help share existing and emerging solutions that can help, we are asking innovators across the nation: "How might we leverage real-time sensors, open data, social media, and other tools to help reduce the number of fatalities from flooding?"





Join Us: Innovation for Disaster Preparedness

In addition to the showing support for our [Call to Action for Data Stewards](#) and our first [Innovator Challenge](#), there are many other ways to get involved:

- Share your tech and innovation news, ideas, and more on social media with [#disastertech](#)
- Consider how technology and innovation can support [building a kit and making a plan](#)
- Download free [apps & tools](#) that can help with disaster preparedness
- Learn how you can participate in America's [PrepareAthon!](#) and visit [Ready.gov](#) for tips and updates
- Share an Innovator Challenge statement or any ideas where innovations in technology can be applied to improve disaster preparedness by emailing disastertech@ostp.gov

Developers can also:

- Use our open datasets to provide products or services for disaster preparedness
- Build upon existing open source apps and tools
- Host a data jam or civic hackathon to build solutions for identified challenges
- Share your projects with us at disastertech@ostp.gov

Tech Entrepreneurs can also:

- Host a workshop for defining challenge statements and potential solutions
- Host a data jam or civic hackathon to build solutions for identified challenges
- Have a conversation with innovation experts, discussing technology gaps and opportunities
- Share your projects with us at disastertech@ostp.gov

Government Officials can also:

- Identify and share challenge statements with us at disastertech@ostp.gov
- Consider how innovation and technology can help your team and any collaborative projects



DISASTERS

Types of Disasters - Data Get Involved - Apps & Tools Blog

Apps & Tools

The [White House Innovation for Disaster Response and Recovery Initiative](#) was first launched by the Administration in the wake of Hurricane Sandy to find the most effective ways technology can empower survivors, first responders, and local, state, tribal, territorial, and Federal Governments with critical information and resources.

This page features apps and tools shared at the White House Innovation for Disaster Response and Recovery [Demo Day](#) to help address the challenges that severe weather and other disasters can pose to our communities.

In response to the Administration's call to better prepare and empower survivors and communities in the wake of a disaster, the public and private sectors announced the following technology initiatives and platforms:

Sharing economy and technology platform innovations to support survivors



Yammer Survivor Network hosts private, online community spaces to serve as connection points and support networks for survivors and responders as they recover and rebuild.



TaskRabbit Needs for First Responders is a web portal offering a real-time marketplace to connect local service providers with those that need assistance, without any fees. Those interested in joining the pilot program can email DisasterRelief@TaskRabbit.com.



Airbnb, a community marketplace for housing, will pre-identify and activate hosts for displaced persons and disaster service workers when an emergency occurs. To learn more and engage this initiative, contact emergencyresponse@airbnb.com.

Crowdsourcing to improve disaster response and recovery



GeoQ crowdsources geo-tagged photos of disaster-affected areas to assess damage over large regions. Programmers can use the existing services and add features to customize the GeoQ code for



SeeClickFix provides a database of citizen requests to help generate clear and actionable data on the state of infrastructure in the wake of a disaster. To learn more visit <http://en.seeclickfix.com/>.



The Incident Waste Declaration Support Tool (I-WA STE) offers emergency responders, industry representatives, and officials reliable information on waste characterization, treatment, and disposal

- Links and information about Apps & Tools featured at the July 2014 Demo Day



HIGHLIGHTS

Launching Disasters.Data.Gov to Empower First Responders and Survivors with Innovative Tools and Data

Strengthening our Nation's resilience to disasters is a shared responsibility, with all community members contributing their unique skills and perspectives. Whether you're a data steward who can [unlock information and foster a culture of open data](#), an innovator who can help [address disaster preparedness challenges](#), or a volunteer ready to [join the "Innovation for Disasters" movement](#), we are excited for you to visit the new [disasters.data.gov](#) site, launching today.

[Read more](#)

[More Highlights](#)

UPDATES

"Lantern Live" Mobile App Lights Way for Citizens Impacted by Disasters

November 21, 2014 *By Brian Forde, Denise Ross, and Derek Frempong*

In the wake of Hurricane Sandy, seemingly simple tasks such as refueling your car, were incredibly difficult. Few tools existed to determine which gas stations had fuel and the power to pump that fuel. To help address this problem, the U.S. Department ...
[Continued](#)

Hardware Hacking for Disaster Response in Red Hook, Brooklyn

November 7, 2014 *By Meredith Lee, Rafael Lemaitre, and Brian Forde*

On October 10 – 11, technologists, entrepreneurs, and innovators across the public and private sectors participated in the first Civic Hardware Hackathon for Disaster Preparedness in support of the [White House Innovation for Disaster Response and Recovery Initiative](#). Co-hosted by the [Department of Homeland Security Science and Technology Directorate](#), [Federal Emergency Management Agency \(FEMA\)](#), [The Feast](#), [IDEO](#), and [Intel](#), the two-day ... [Continued](#)

More than 1,500 people participate in the White House Innovation for Disaster Response and Recovery Demo Day

August 4, 2014 *By Meredith Lee, Heather King, and Brian Forde*



Today's briefing

DATA TOPICS - IMPACT APPLICATIONS DEVELOPERS CONTACT

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- Demo / walk through of [disasters.data.gov](#) features unveiled Dec. 15, 2014
- Feedback and discussion on future updates: how to make the site most useful
- **Q&A and best practices from data.gov team**



The home of the U.S. Government's open data

Here you will find data, tools, and resources to conduct research, develop web and mobile applications, design data visualizations, and more.

GET STARTED

SEARCH OVER 104,942 DATASETS



BROWSE TOPICS



Agriculture



Climate



Education



Energy



Finance



Geospatial



This is a public dashboard showing how Federal agencies are performing on the Open Data Policy. [Learn more](#)

Previous Milestone: The milestone selected is the most recently complete one. The status of each field won't be final until a few weeks after the milestone has passed

Selected: Milestone 5 - November 30th 2014 ▾

CFO Act Agencies	Leading Indicators Strategy [ⓘ]						Public Data Listing Metrics [ⓘ]	
	Enterprise Data Inventory	Public Data Listing	Public Engagement	Privacy & Security	Human Capital	Use & Impact	Public Datasets	Valid Metadata
Department of Agriculture							499	100%
Department of Commerce							372	100%
Department of Defense							373	99.7%
Department of Education							227	100%
Department of Energy							296	100%
Department of Health and Human Services							1064	97.3%
Department of Homeland Security							322	100%



U.S. Geological Survey, Department of the Interior

http://www.usgs.gov/ The USGS is a federal science agency that provides impartial information on the health of our ecosystems and environment, the natural hazards that... [read more](#)

Topics

Climate

Contact

<http://www.usgs.gov/ask/>

Share on Social Sites

 Google+

 Twitter

 Dataset

USGS US Topo Map Collection

 Updated: Jan 02, 2015

Layered GeoPDF 7.5 Minute Quadrangle Map. Layers of geospatial data include orthoimagery, roads, grids, geographic names, elevation contours, hydrography, and other selected map features. This map depicts geographic features on the surface of the earth. One intended purpose is to support emergency response at all levels of government. The geospatial data in this map are from selected National Map data holdings and other government sources.

Collection

This dataset is a collection of other datasets.

Downloads and Resources



WAF 

Web Accessible Folder

 Download



ArcREST 

TNM US Topo Availability Web Map Services

 Visit page



CSW 

ScienceBase OGC-CSW interface for harvesting the collection

 Download



Department of Energy

Publisher

Department of Energy

Contact

[Buildings Performance Database Contact](#)

Share on Social Sites

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License

License Not Specified



Dataset

Buildings Performance Database

 Restricted Public  Updated: [Dec 25, 2014](#)

The Buildings Performance Database (BPD) unlocks the power of building energy performance data. The platform enables users to perform statistical analysis on an anonymous dataset of tens of thousands of commercial and residential buildings from across the country. Users can compare performance trends among similar buildings to identify and prioritize cost-saving energy efficiency improvements and assess the range of likely savings from these improvements. ## Key Features ## - The BPD contains actual data on tens of thousands of existing buildings -- not modeled data or anecdotal evidence. - The BPD enables statistical analysis without revealing information about individual buildings. - The BPD cleanses and validates data from many sources and translates it into a standard format. ## Analysis Tools ## Peer Group Tool. Allows users to peruse the BPD and create peer groups based on specific building types, locations, sizes, ages, equipment and operational characteristics. Users can compare the energy use of their own building to a peer group of BPD buildings. Retrofit Analysis Tool. Allows users to analyze the savings potential of specific energy efficiency measures. Users can compare buildings that utilize one technology against peer buildings that utilize another. Coming Soon! Data Table Tool. Allows users to generate and export statistical data about peer groups. Financial Forecasting Tool. Forecasts cash flows for energy efficiency projects. Application Programming Interface (API). Allows external software to conduct analysis of the BPD data.

Downloads and Resources

 [Bldgs Perform](#) 

 [Visit page](#)

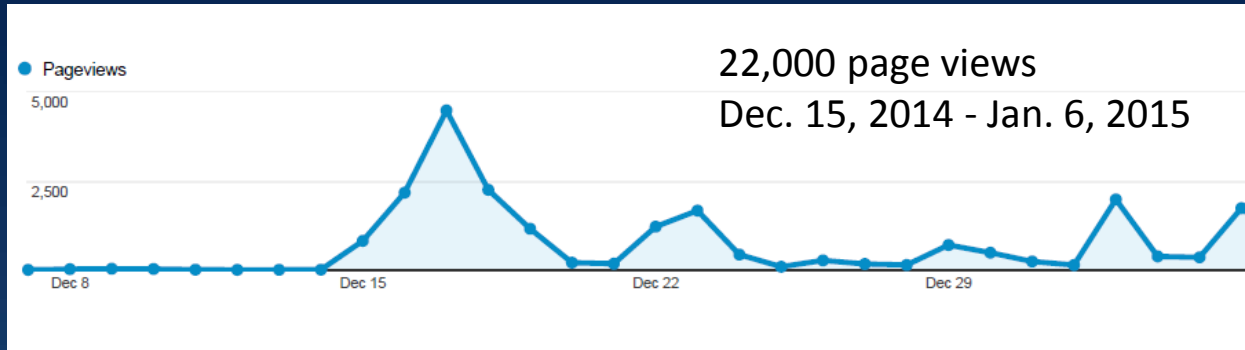
 [Web Page](#)

 [Download](#)

 [Landing Page](#)

 [Visit page](#)

Engagement / Initial Metrics



- Most visited: Apps & Tools, Call to Data Stewards, Innovator Challenge, Earthquakes
- Twitter pick-up: 5-10x more impressions than average (~3-4000 vs. ~500)
- Coverage from tech sector, neighborhoods/ cities/ states/ regions/ nations/ global, faith-based communities, government, academia, non-profits, Emergency Management Magazine, FedScoop, StateScoop, ExecutiveGov, Forbes
- Social media in English, Spanish, French, Japanese, Dutch, Portuguese



Resources

- Agency Open Data POCs
- Project Open Data & Dashboard
- data.gov/FAQ
- data.gov/contact and [@usdatagov](https://twitter.com/usdatagov)
- **disastertech@ostp.gov**

