

Intelligence-Driven Resource Management and Mutual Aid Planning



March 31, 2020

National Alliance for Public Safety GIS (NAPSG) Foundation

napsfoundation.org | [@napsfoundation](https://twitter.com/napsfoundation)

GIS and Situational Awareness Resources for COVID-19

NAPSG Foundation COVID-19 Resources Page

- <https://www.napsfoundation.org/resources/covid-19/>

The collage features several key resources:

- Esri COVID-19 GIS Hub:** A website interface with the heading "COVID-19 GIS Hub" and the text "Get maps, datasets, applications, and more for coronavirus disease 2019 (COVID-19). Check back often—these resources will be updated with new information as it becomes available." It includes a "Request GIS assistance" button and a section titled "Understand, prepare for, and respond to COVID-19 in your community or organization." Below this is a "Novel Coronavirus (COVID-19) Situation" dashboard showing 153,527 confirmed cases, 5,733 deaths, and 144 recoveries, along with a world map of case distribution.
- IAFIC COVID-19 Fire & EMS Personnel Impact Dashboard:** A dashboard with a map of Canada and a table of personnel impact data.
- Personnel Impact Data Table:**

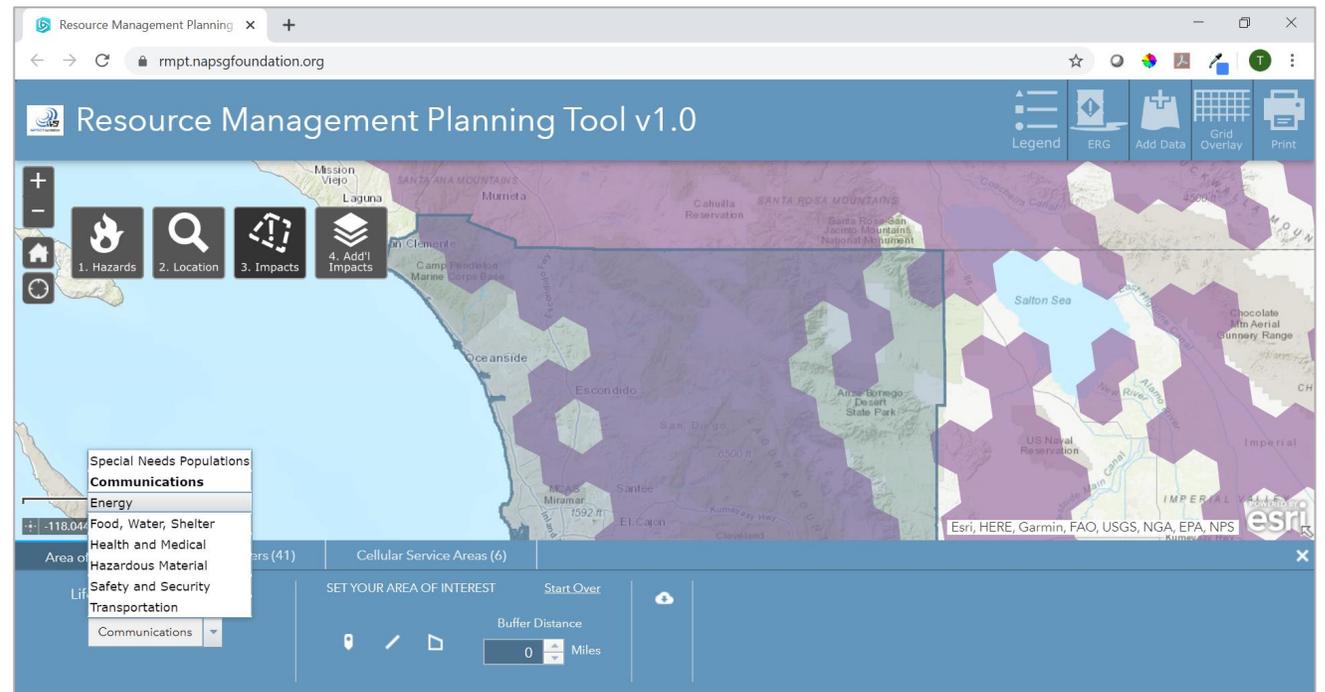
Department Reporting	Department Reporting
2,110 Filtered By Date	54 Today
Personnel Exposed 6,565 Filtered By Date	Personnel Exposed 196 Today
Total In Quarantine 2,159 Filtered By Date	Total In Quarantine 93 Today
Personnel Diagnosed 119 Filtered by Date	Personnel Diagnosed 13 Today

Today's Objectives

- **Learn how to access and use a new risk-based mutual aid planning tool to equip you with:**
 - Critical information to make better resource management decisions during preparedness, planning, and readiness.
 - Risk information for rapid integration into the planning process for resource management.
- **Learn about best practices in using core sets of data and analysis that:**
 - Provide valuable intelligence for resource planning –
 - starting in clear skies with risk assessment,
 - seamlessly moving into a strong readiness posture (long-term and short-term forecast) –
 - and into response operations involving the request and deployment of resources.
- **Gain access to the developer toolkit so that you can work with your agency's developer to:**
 - Customize the tool
 - incorporate your agency's resource inventory data,
 - integrate the tool within your existing resource management, mutual aid, and/or crisis management systems

Agenda

- Introduction to the NAPSG Foundation
- Background on Resource Management & Mutual Aid efforts @ NAPSG
- Resource Management Planning Tool:
 - Development of toolkit
 - LIVE DEMO
 - Next Steps: Integration into NMAS
 - Implementation: Developer Toolkit
- NAPSG Next Steps



About NAPSG Foundation

Our Vision

A Nation of emergency responders and leaders equipped with the knowledge and skills in applying technology and data to change the outcome for survivors.

- 501(c)(3) Non-profit organization established in 2005
- +20,000 member network: Public Safety leaders, first responders, and GIS practitioners
- Board of Directors comprised of public safety & emergency management industry leaders



ICMA

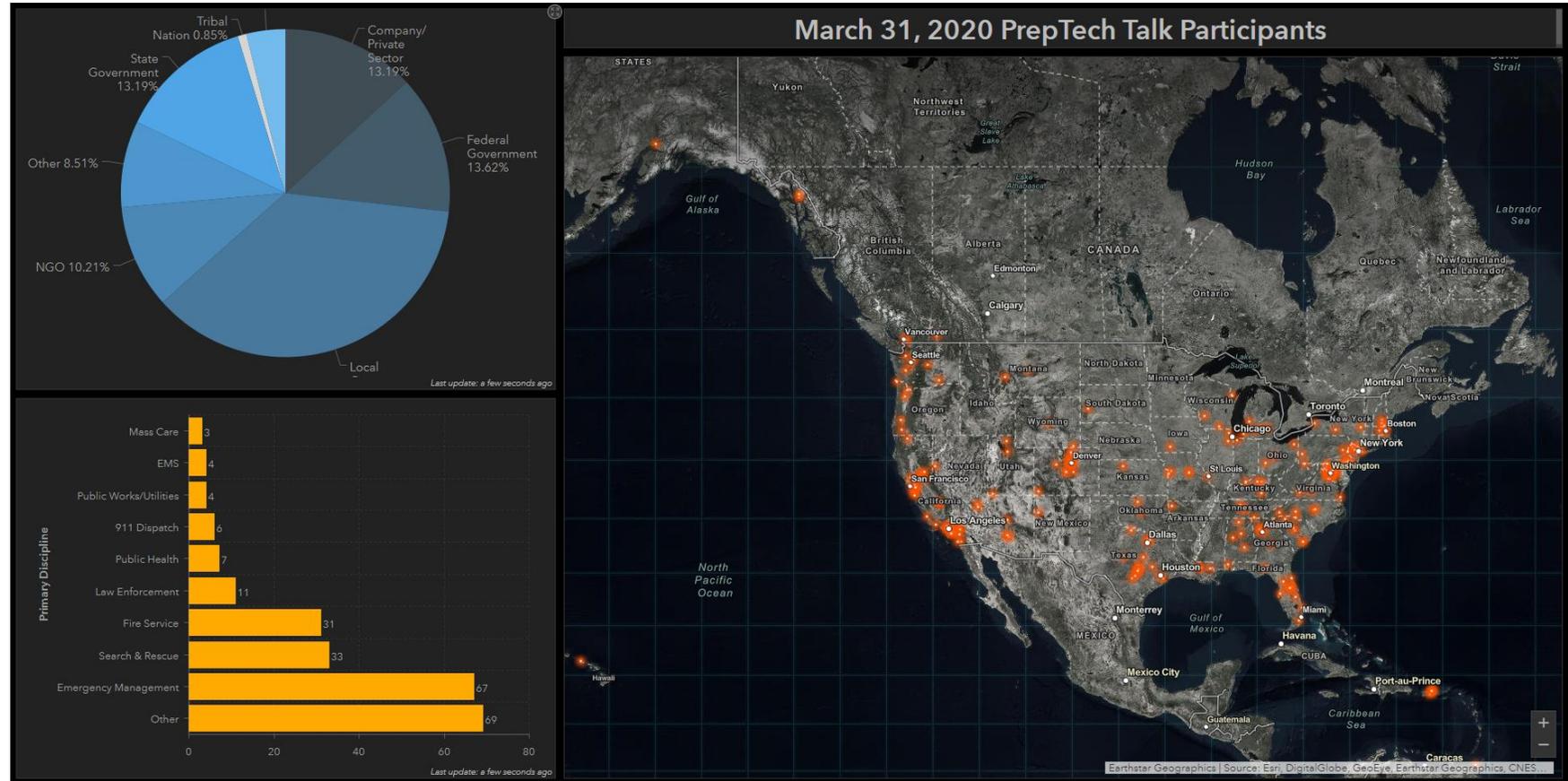


NACCHO
National Association of County & City Health Officials
The National Connection for Local Public Health



Local Focus – National Reach

- 20,000+ member network
- 12 primary national & international associations
- All disciplines
- All levels of government
- Private sector

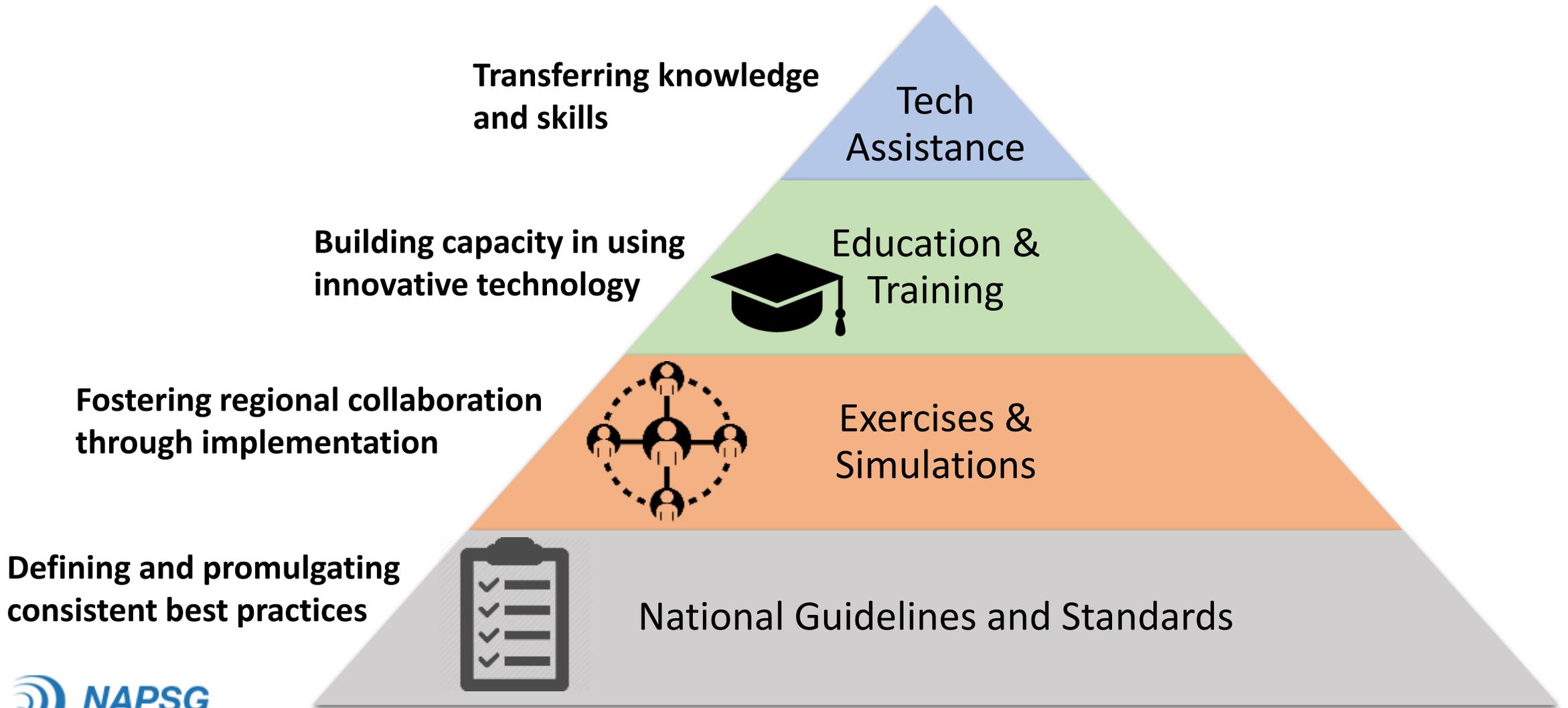


From Preparedness through Response and into Recovery

First Responders, Operators, and Decision Makers have access to and know how to use the **right actionable information at the right time**



How Do We Do It



Resource Library

RESOURCES

Welcome to NAPSG's Resource Library. Here you can access all of the key resources that NAPSG makes available to the community at no cost, to support you and your agency in advancing the use of location-enabled decision support tools.

The Resource Library is organized by resource category. Simply click on the Category of interest and begin exploring available resources. You can also search for resources by entering-in a keyword into the search box in the upper right hand side.

SEARCH RESOURCES

All Categories

SEARCH

Best Practices and Standards

Education and Training

Event Proceedings and Materials

Qualifications and Credentialing

Guidelines and Templates

Symbol Library

US National Grid Resources

Safe & Resilient Toolkit

<https://www.napsgfoundation.org/all-resources/>

Innovative Mutual Aid Policy and Technology Program

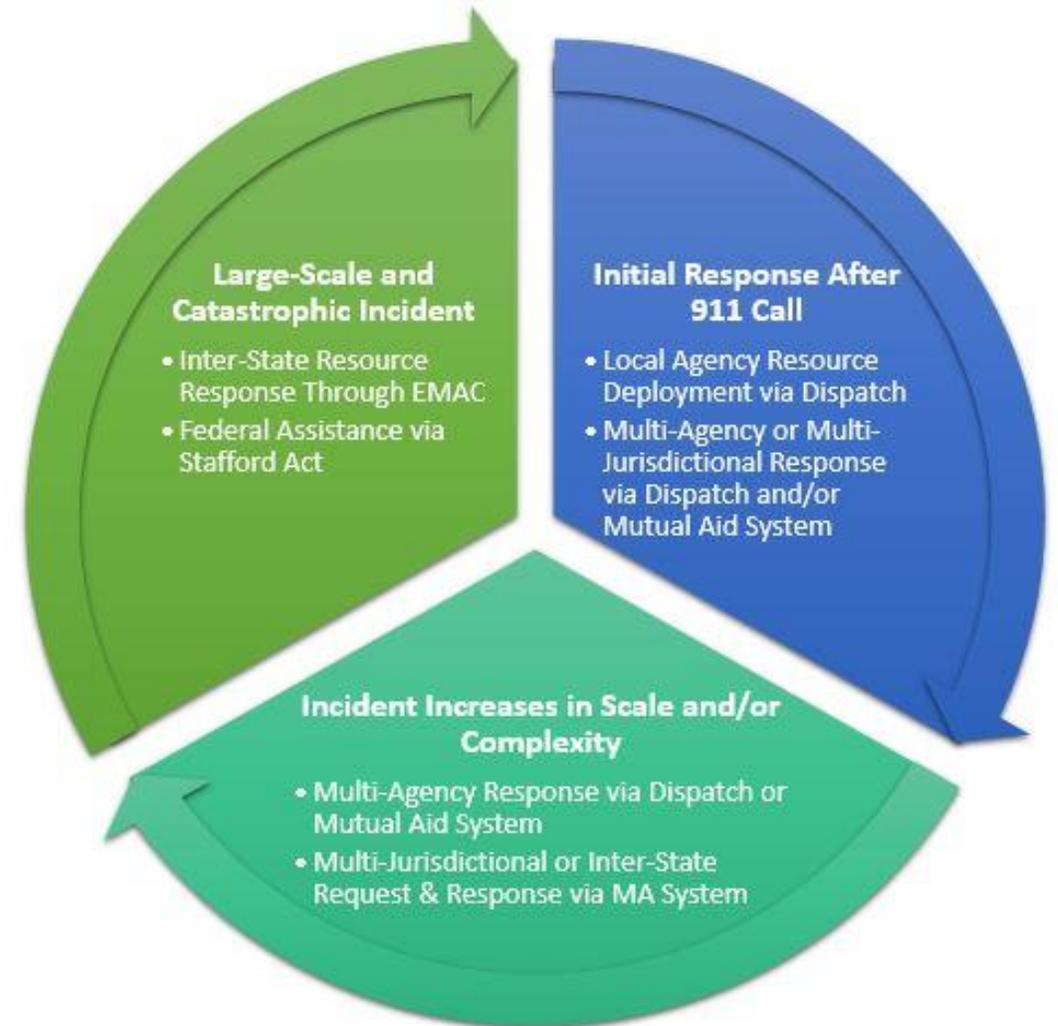
Goal: Build from lessons learned in recent incidents and exercises to address some of the most pressing needs and requirements around innovative technology, policy, and capacity building for mutual aid identified by the first responder community.

Related Initiatives

- Crisis Management and Mutual Aid Policy and Technology Coordination
- Implementing Information Sharing Standards for Crisis Management and Mutual Aid Technology
- Standardized Mutual Aid Planning Toolkit
- Innovation Summit for Preparedness & Resilience (InSPIRE)

Challenge

- Mutual aid is critical for effective unified response to and recovery from emergencies and planned events
- While many mutual aid technology systems are in-use today, there is no clear national standard or framework by which these systems can be integrated to support operational workflows



Stakeholder Engagement

- Requirements gathering process focused on leader/decision maker needs at the local level while ensuring a national perspective.
- Virtual Meetings and Live Demonstrations
 - Reviewed and analyzed existing and emerging tools and indices that can support resource management and mutual aid planning
 - Developed local use cases for risk-based planning efforts
- In-Person Stakeholder Work Session: March 2019
 - Defined specific resource planning and functionality needs and requirements
 - Identified and prioritize information and data needs for resource planning and mutual aid
 - Define roadmap for prototyping suite of tools

Name	Affiliation
TJ Lyon	ESF 4/9 Coordinator, Florida State Fire Marshal's Office
Chad Beam	South Carolina State Emergency Response Task Force
Kevin Lauer	Tennessee Division of Emergency Management
Tony Bateman	City of Charlotte Emergency Management, North Carolina
Scott Ehlers	City of Clearwater Fire/Pinnellas County Fire & Emergency Management, Florida
Joe Calnan	Frenchtown Rural Fire District, Montana
Mark Novak	Vail Fire Department, Colorado
Eric Shreve	Arizona Department of Emergency and Military Affairs
Chief Kim Zagaris	California Governor's Office of Emergency Management
Jeff Dulin	IAFC
Amber Wells	IAFC
David Halstead	NAPSG Foundation
Rebecca Harned	NAPSG Foundation
Tricia Lawson	NAPSG Foundation
Paul Doherty	NAPSG Foundation

Mutual Aid Tools/Data Reviews

- Reviewed and assessed existing planning-related tools to determine if an existing tool already exists that fulfills the requirements.
 - Mutual Aid Resource Planner (MARP)
 - Standardized Unified Modeling, Mapping, and Integration Toolkit (SUMMIT)
 - Prioritizing Operations Support Tool (POST)
 - Hazard Explorer Tool
 - Resilience and Planning Tool
- Reviewed nationally available risk and resilience indices and data, to determine applicability to resource management and mutual aid planning.
 - National Risk Index
 - South Carolina's Community Resilience Index
 - Community Resilience Index
 - National Hazard Exposure Layer

Resource Management Information Needs

• People



- Population #
- Special Needs Population
- Access to transportation
- Age 65 & over
- Age 15 & under
- Access & functional needs
- Language
- Access to internet



• Special Needs Infrastructure

- Elementary Schools
- Junior High / Middle Schools
- Private Schools
- Prisons
- Nursing Homes
- Juvenile Detention Centers
- Child Care Centers



• Housing



- Number of structures
- Types of structures
 - Residential
 - Commercial
 - Industrial
- Mobile Homes

• Transportation

- Bus Routes
- Bus Locations
- Train Routes
- Train Locations
- Bridges
- Air Navigation Transponders



• Communications



- Cell Tower
- Carrier
- What do they service? – shared by local gov

• Health & Medical



- Hospitals
 - Critical care population and types of critical care
 - Type of hospitals – Level 1 Trauma Centers
 - Bed Count (dynamic if possible)
 - Generators
- Dialysis Centers
- Locations



- Service area
- Back-up power
- First Net
- Tower Data (Chad)
 - National UTAC, VTAC
 - ARES
- HAM Radio
- Radio Caches

• Energy



- Fueling Sites/Gas Stations
- Emergency Generator Power
- Capacity
- Access from the interstate
- Power Plants (substation)
 - Type of Power
 - Interdependencies: Where is the power is coming from

- Total number of patients per day they see
- Nursing Homes
 - Pop count
 - Generators
- Special Healthcare Needs

– where it is going to?

• Hazardous Materials

- EPA Tier 2 Sites
- ERG
- Wastewater

• Safety & Security

- Police Stations
- EOC
- Fire Stations
- Potential Staging Area Locations – Truck Stops, etc
- Joint Reception, Staging, Onward Movement, and Integration Plan



Sheltering

- National Potential Shelters Locations
 - Backup power
 - Capacity
- Supermarkets
- Food Distribution Hubs
- Drinking Water Pumping Station Locations
- Drinking Water Treatment Plants
- Drinking Water Storage /Towers
- Drinking Water Sources/Reservoirs



• Food, Water, &

Mutual Aid Planning Tool Information Needs

Special Needs Population

- Est. Pop
- Est Pop > 65
- Est Pop <17
- Est Pop w/Disability
- Language
- No Vehicle
- Detention Centers
- Mobile Home Parks
- Child Care Centers



Communications

- Cell Towers
- Cell Service Areas



Energy

- Power Plants
- Electric Holding Co



Food, Water, and Shelter

- Public Schools



Health & Medical

- Dialysis Centers
- Hospitals – Type

Hazardous Materials

- FRP Facilities
- ERP Facilities



Safety & Security

- Fire Stations
- Law Enforcement
- Local EOCs



Transportation

- Public Transport Facilities



Mutual Aid Planning Steps

Resource Management

Mutual Aid

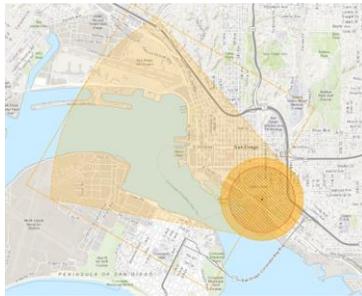
STEP 1
Identify the Hazard

choose a hazard to analyze



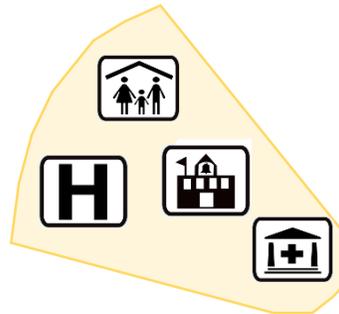
STEP 2
Identify Location

identify your "incident area"



STEP 3
Understand Impacts

intersect & calculate community impacts



- 3 Shelters
- 5 Hospitals
- 15 Schools

Est Population: 37,540

STEP 4
Identify the Resources Needed

calculates resource needs

- 2 USAR Teams
- 1 SWAT Team
- 5 HAZMAT

STEP 5
Assess Available Resources

system assesses available resources and identifies gaps

Required to respond

Resources Available

Needed via Mutual Aid

STEP 6
Implement

adjust & document or order resources



Mutual Aid Planning Steps

Resource Management

Mutual Aid

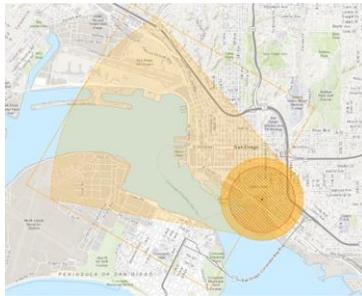
STEP 1
Identify the Hazard

choose a hazard to analyze



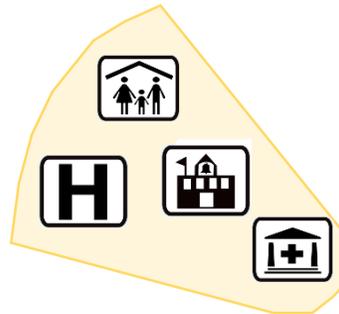
STEP 2
Identify Location

identify your "incident area"



STEP 3
Understand Impacts

intersect & calculate community impacts



- 3 Shelters
- 5 Hospitals
- 15 Schools

Est Population: 37,540

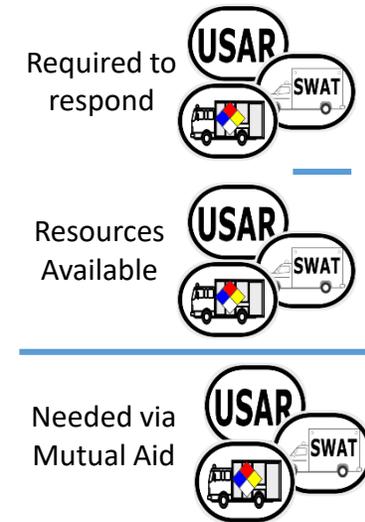
STEP 4
Identify the Resources Needed

calculates resource needs

- 2 USAR Teams
- 1 SWAT Team
- 5 HAZMAT

STEP 5
Assess Available Resources

system assesses available resources and identifies gaps



STEP 6
Implement

adjust & document or order resources



NMAS
Request. Locate. Deploy.

Resource Management Planning Tool

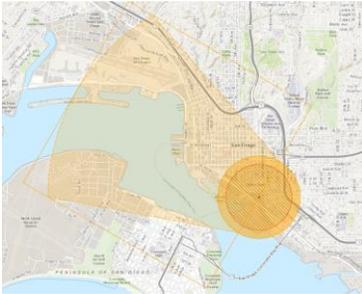
STEP 1 Identify the Hazard

choose a hazard to analyze



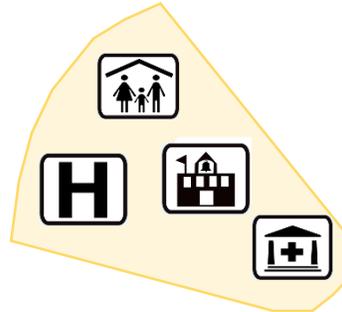
STEP 2 Identify Location

identify your "incident area"



STEP 3 Understand Impacts

intersect & calculate community impacts



- 3 Shelters
- 5 Hospitals
- 15 Schools

Est Population: 37,540

STEP 4 Identify the Resources Needed

calculates resource needs

- 2 USAR Teams
- 1 SWAT Team
- 5 HAZMAT

STEP 5 Assess Available Resources

system assesses available resources and identifies gaps

Required to respond

Resources Available

Needed via Mutual Aid

STEP 6 Implement

adjust & document or order resources



Resource Management Planning Tool

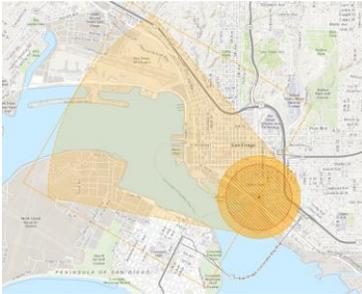
STEP 1 Identify the Hazard

choose a hazard to analyze



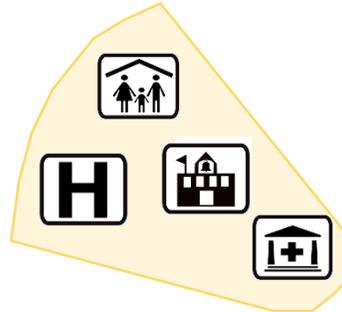
STEP 2 Identify Location

identify your "incident area"



STEP 3 Understand Impacts

intersect & calculate community impacts



- 3 Shelters
- 5 Hospitals
- 15 Schools

Est Population: 37,540

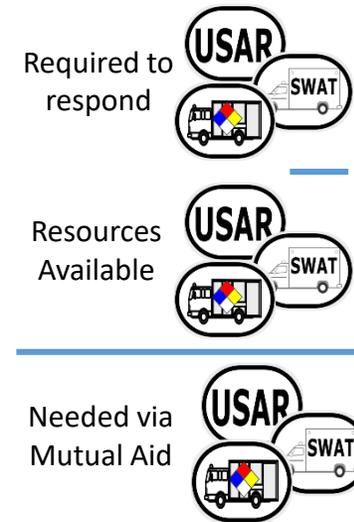
STEP 4 Identify the Resources Needed

calculates resource needs

- 2 USAR Teams
- 1 SWAT Team
- 5 HAZMAT

STEP 5 Assess Available Resources

system assesses available resources and identifies gaps



STEP 6 Implement

adjust & document or order resources



Resource Management Planning Tool

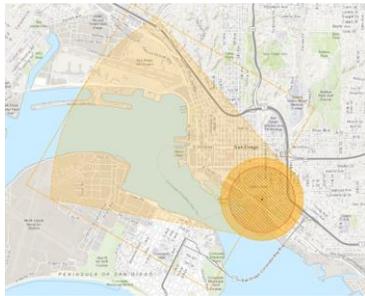
STEP 1 Identify the Hazard

choose a hazard to analyze



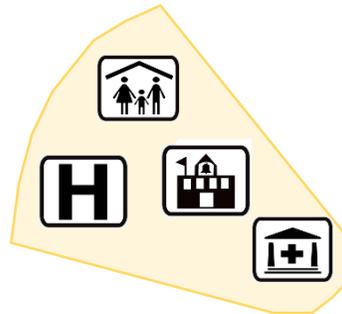
STEP 2 Identify Location

identify your "incident area"



STEP 3 Understand Impacts

intersect & calculate community impacts



- 3 Shelters
- 5 Hospitals
- 15 Schools

Est Population: 37,540

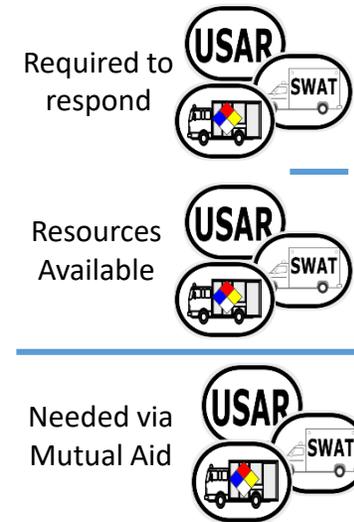
STEP 4 Identify the Resources Needed

calculates resource needs

- 2 USAR Teams
- 1 SWAT Team
- 5 HAZMAT

STEP 5 Assess Available Resources

system assesses available resources and identifies gaps



STEP 6 Implement

adjust & document or order resources



Resource Management Planning Tool

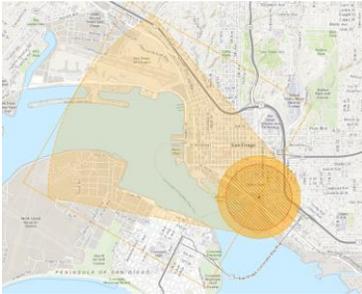
STEP 1 Identify the Hazard

choose a hazard to analyze



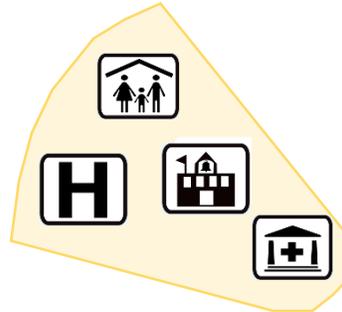
STEP 2 Identify Location

identify your "incident area"



STEP 3 Understand Impacts

intersect & calculate community impacts



- 3 Shelters
- 5 Hospitals
- 15 Schools

Est Population: 37,540

STEP 4 Identify the Resources Needed

calculates resource needs

- 2 USAR Teams
- 1 SWAT Team
- 5 HAZMAT

STEP 5 Assess Available Resources

system assesses available resources and identifies gaps

Required to respond

Resources Available

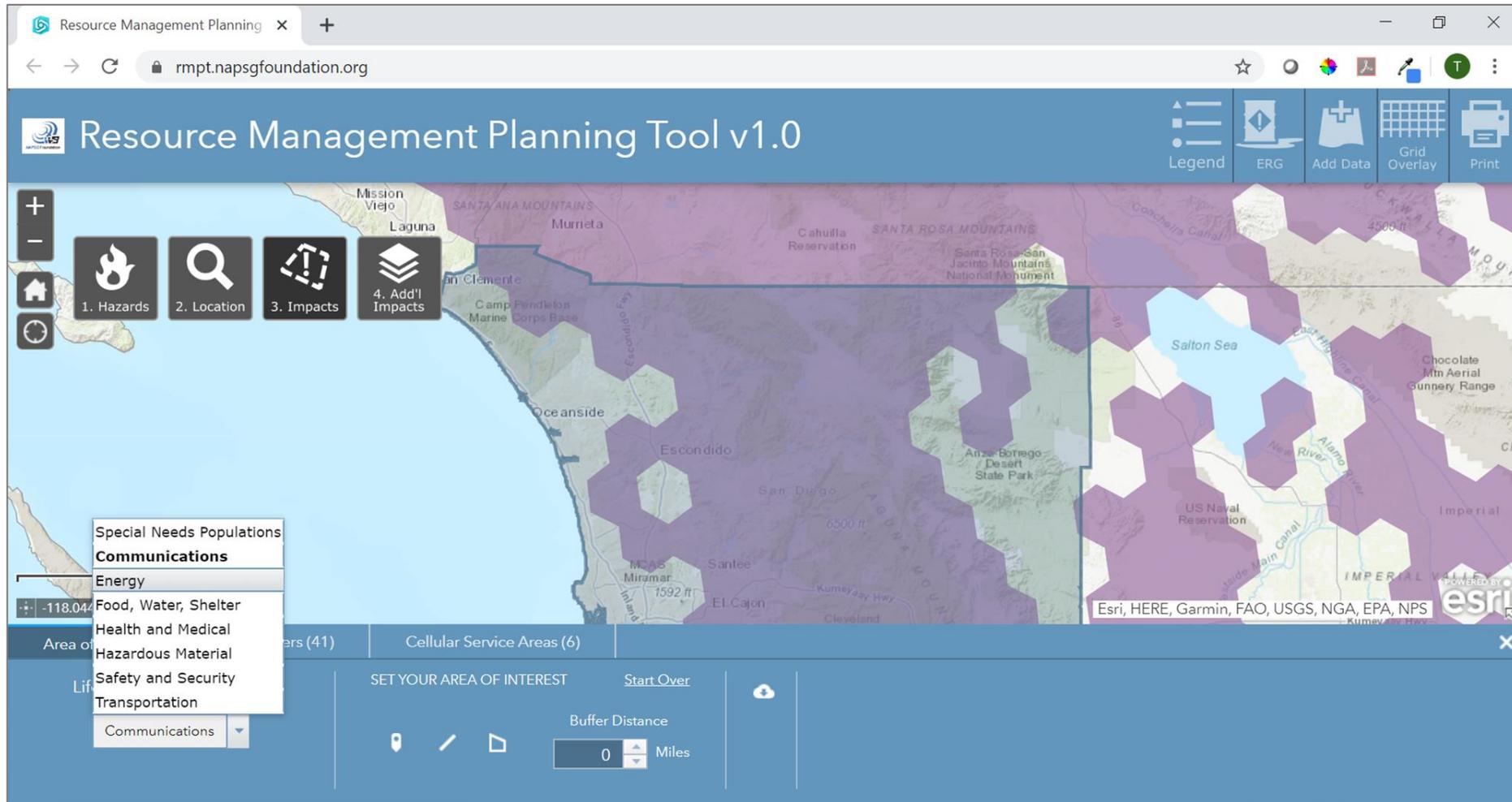
Needed via Mutual Aid

STEP 6 Implement

adjust & document or order resources



Resource Management Planning Tool v1.0

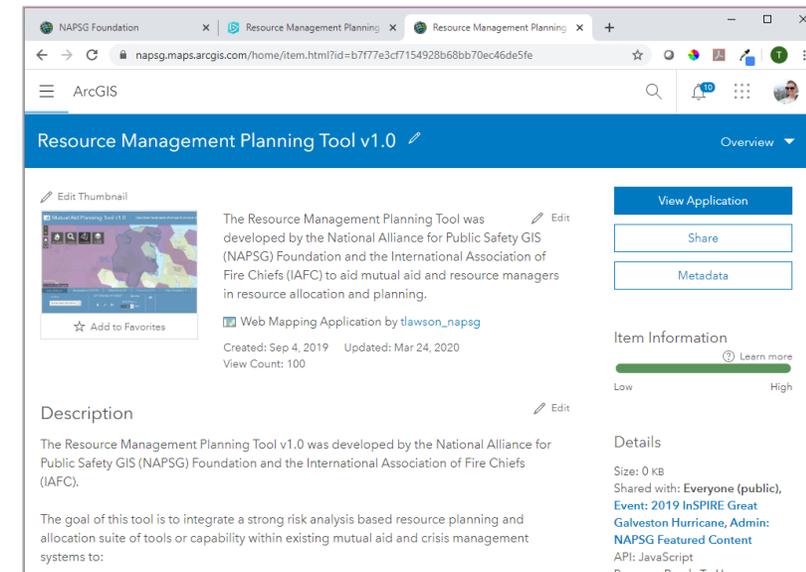
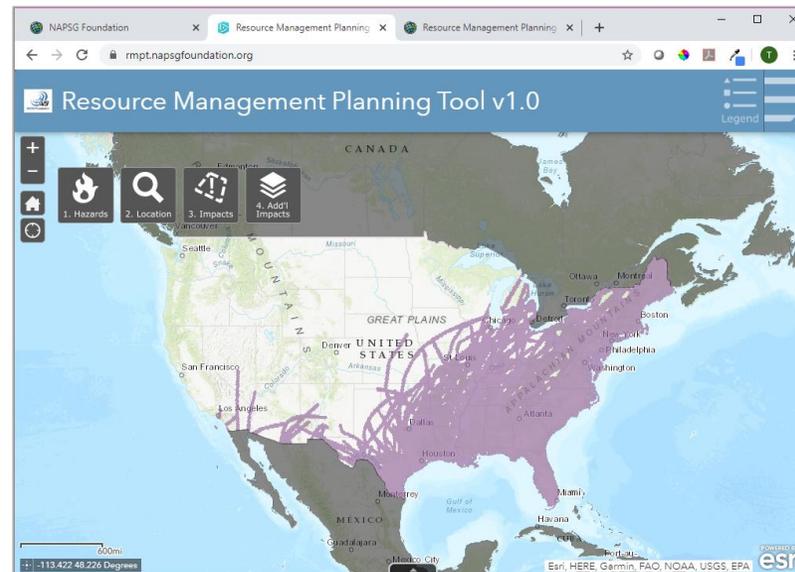
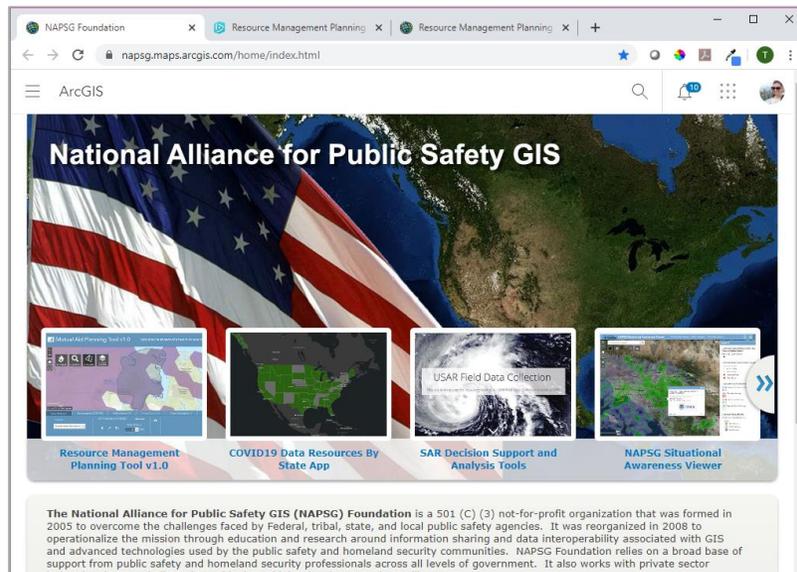


How to Access the Resource Management Planning Tool v1.0

<https://rmpt.napsgfoundation.org/>

- NAPSAG AGOL

- Homepage: <https://napsg.maps.arcgis.com/home/index.html>
- Item Page: <https://napsg.maps.arcgis.com/home/item.html?id=b7f77e3cf7154928b68bb70ec46de5fe>



Resource Management Planning Tool v1.0

Legend ERG Add Data Grid Overlay Print

+
-
🏠
🕒

- 1. Hazards
- 2. Location
- 3. Impacts
- 4. Add'l Impacts



App State ×

Click to restore the map extent and layers visibility where you left off.

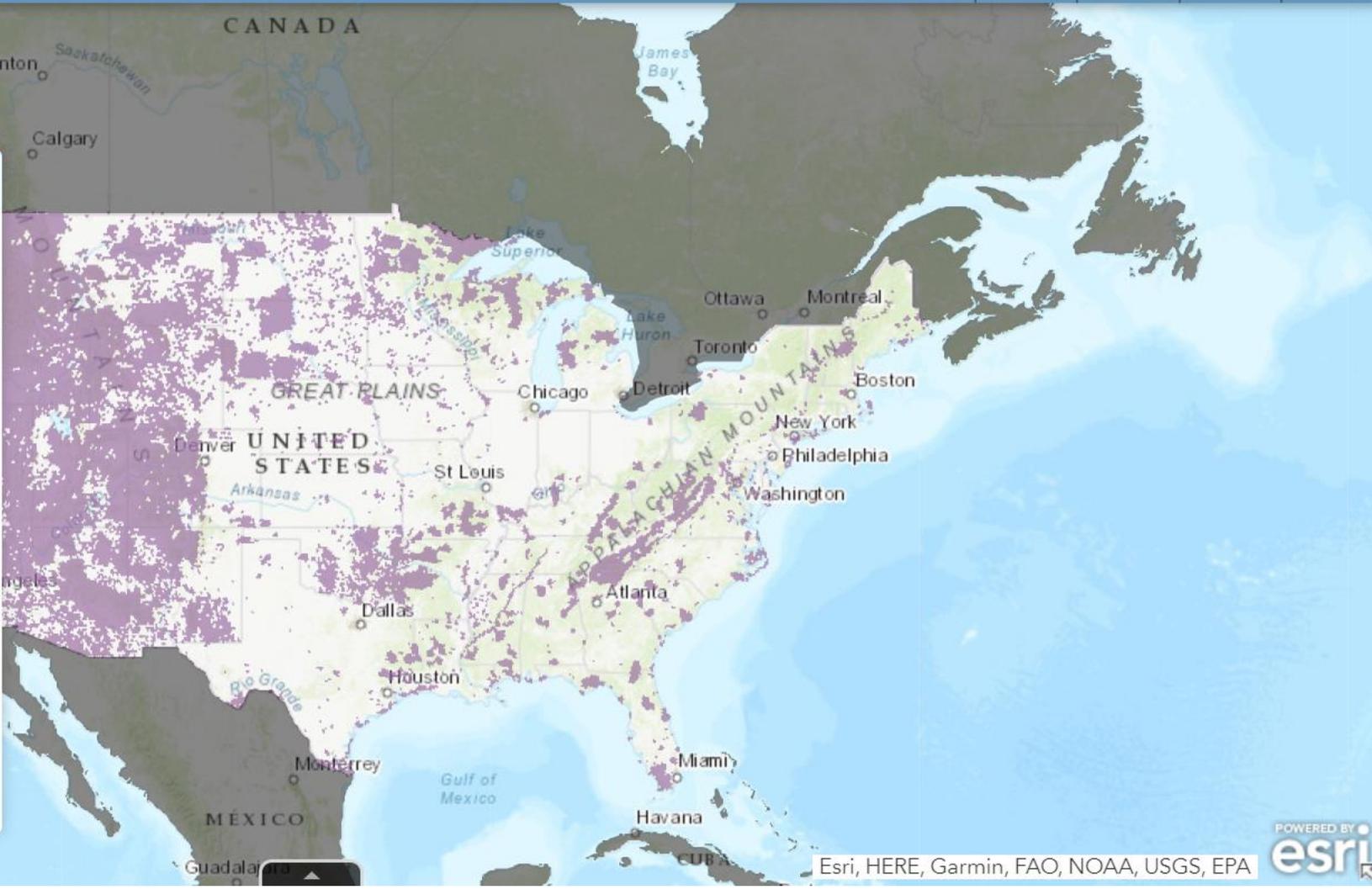
Resource Management Planning Tool v1.0

Legend ERG Add Data Grid Overlay Print

+
-
🏠
🕒

Explore Hazards [X]

- Flood Hazard Exposure
- Hazmat Hazard Exposure
- Hurricane Hazard Exposure
- Landslide Hazard Exposure
- Storm Hazard Exposure
- Tornado Hazard Exposure
- Tsunami Hazard Exposure
- Volcano Hazard Exposure
- Wildfire Hazard Exposure



Resource Management Planning Tool v1.0

Legend ERG Add Data Grid Overlay Print

+
-
🏠
🕒

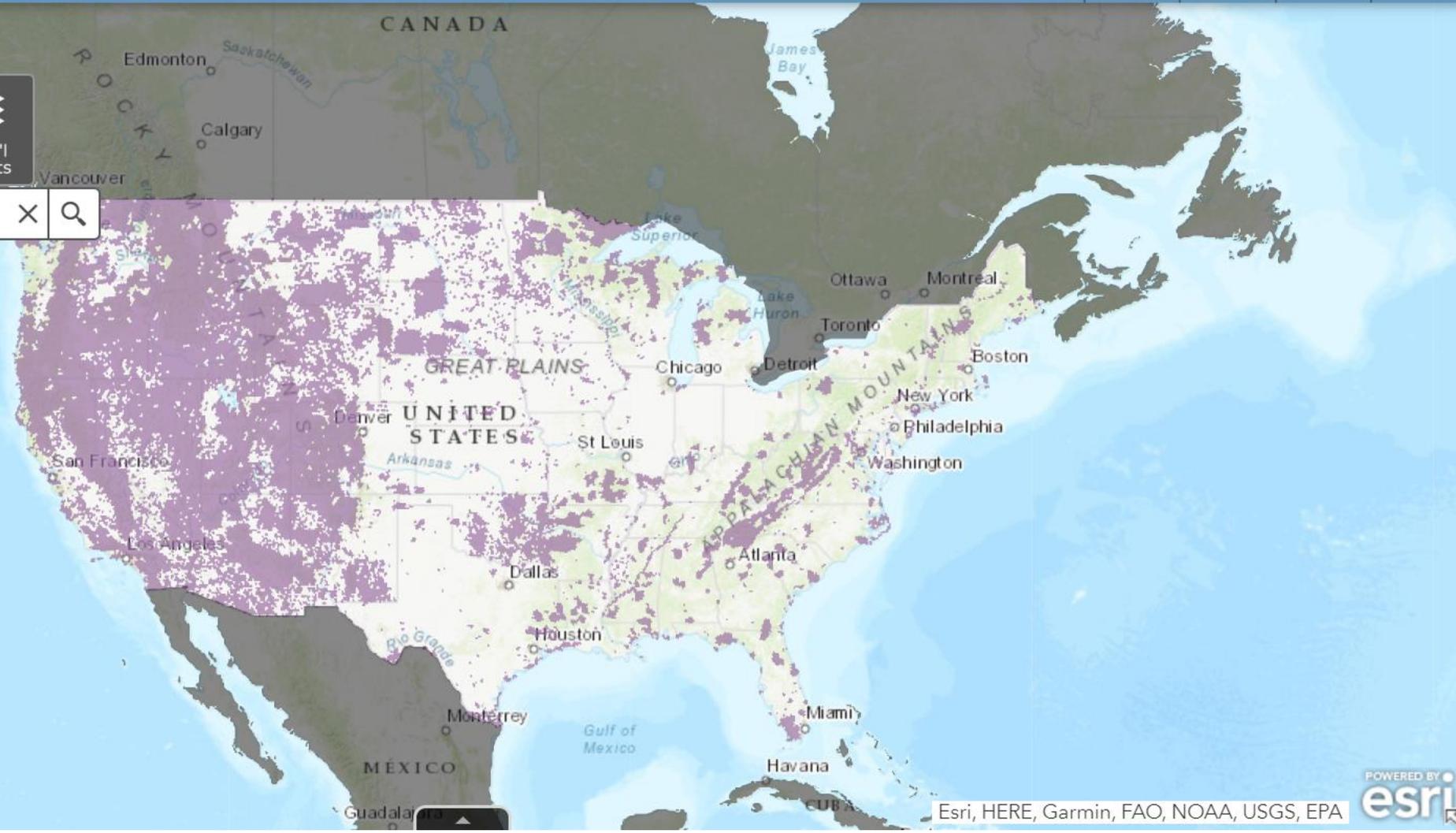
1. Hazards

2. Location

3. Impacts

4. Add'l Impacts

San Diego X 🔍



600mi
-155.258 45.677 Degrees

Resource Management Planning Tool v1.0

Legend ERG Add Data Grid Overlay Print

Map navigation controls: zoom in (+), zoom out (-), home, refresh.

1. Hazards 2. Location 3. Impacts 4. Add'l Impacts

San Diego X Q
Show search results for San Di...

San Diego

County Name	San Diego
State Name	California
FIPS	06073
Population (2017)	3,328,647
Pop. per Sq. Mi.	785.70

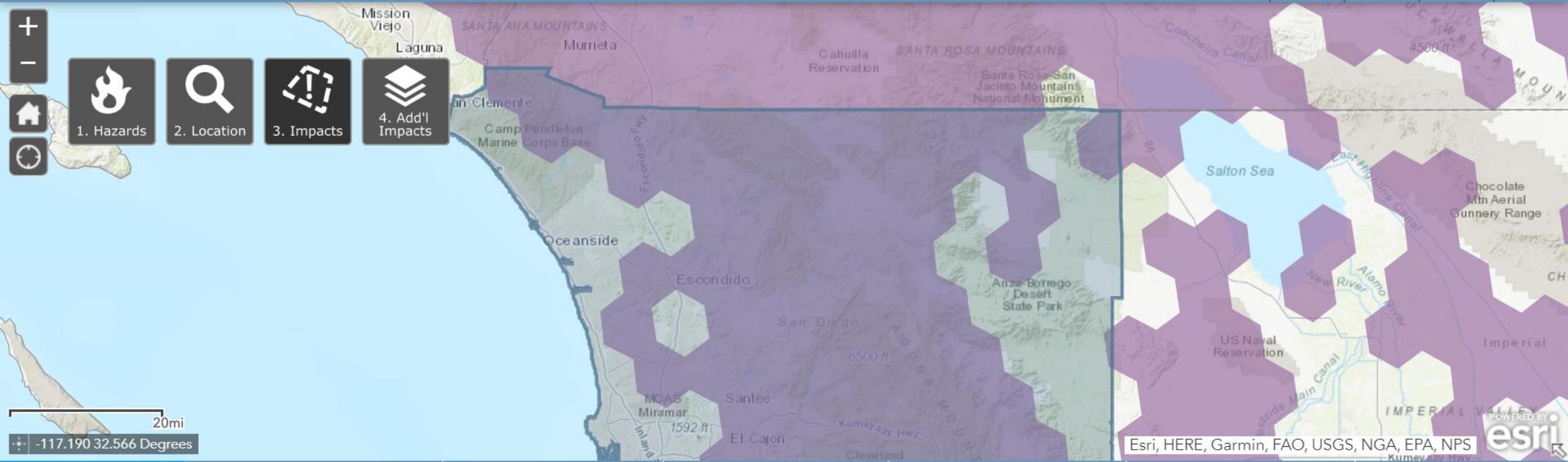
[Zoom to](#) ...

Pan to
Add a marker
Set Location
View in Attribute Table

20mi
-116.816 32.950 Degrees

Resource Management Planning Tool v1.0

Legend ERG Add Data Grid Overlay Print



Area of Interest | Demographics (CDC SVI) | Public Schools (768) | Private Schools (255) | Prison Boundaries (25) | Nursing Homes (265) | Mobile Home > X

Lifeline

Special Needs Populations ▾

SET YOUR AREA OF INTEREST [Start Over](#)

Buffer Distance

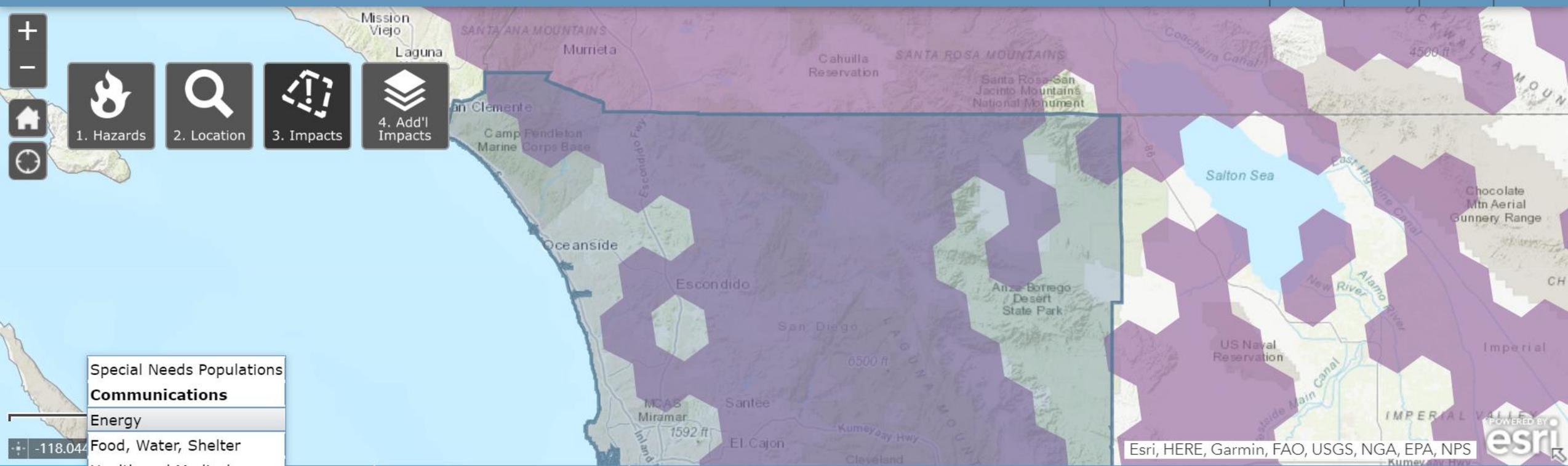
0 Miles

Resource Management Planning Tool v1.0

Legend ERG Add Data Grid Overlay Print

+
-
Home
Refresh

- 1. Hazards
- 2. Location
- 3. Impacts
- 4. Add'l Impacts



- Special Needs Populations
 - Communications**
 - Energy
 - Food, Water, Shelter
 - Health and Medical
 - Hazardous Material
 - Safety and Security
 - Transportation
- Communications

Area of Interest (41) Cellular Service Areas (6)

SET YOUR AREA OF INTEREST [Start Over](#)

Buffer Distance

0 Miles

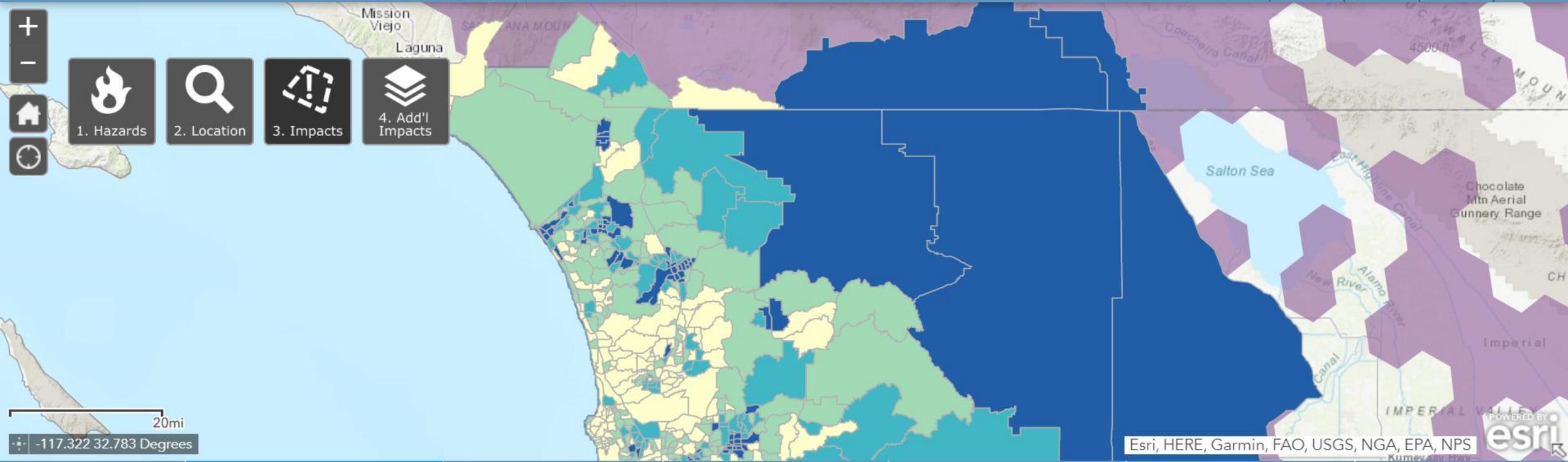
Esri, HERE, Garmin, FAO, USGS, NGA, EPA, NPS

Resource Management Planning Tool v1.0

Legend ERG Add Data Grid Overlay Print

+
 -
 🏠
 🔍
 📐
 📄

1. Hazards
 2. Location
 3. Impacts
 4. Add'l Impacts



Area of Interest	Demographics (CDC SVI)	Public Schools (768)	Private Schools (255)	Prison Boundaries (25)	Nursing Homes (265)	Mobile Home
Estimated Total Population	Estimated Daytime Population	Est Pop Over Age 65	Est Pop Under Age 17	Est Pop with a Disability	Est Pop Instit	
3,255,336	3,225,289	390,598	746,290	297,304	93,8	

Resource Management Planning Tool v1.0

Legend ERG Add Data Grid Overlay Print

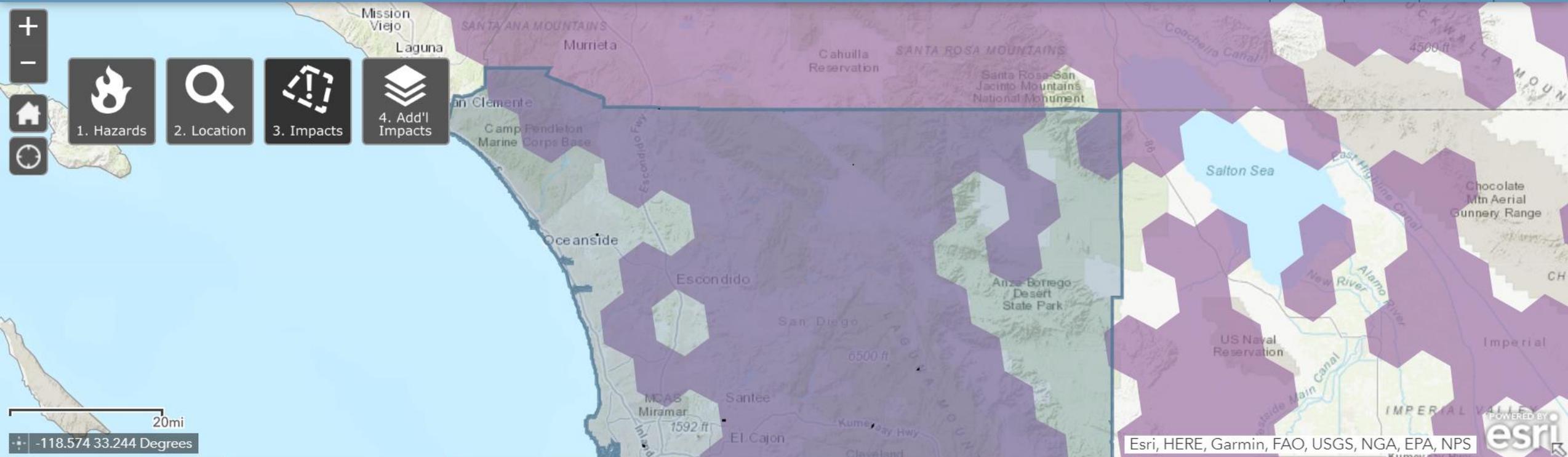
+

-

🏠

🕒

- 1. Hazards
- 2. Location
- 3. Impacts
- 4. Add'l Impacts



20mi

-118.574 33.244 Degrees

ographics (CDC SVI)	Public Schools (768)	Private Schools (255)	Prison Boundaries (25)	Nursing Homes (265)	Mobile Home Parks (394)	Child Car
Security Level JUVENILE	Security Level MAXIMUM	Security Level MEDIUM	Security Level MINIMUM	Security Level NOT AVAILABLE		
5	6	5	6	3		

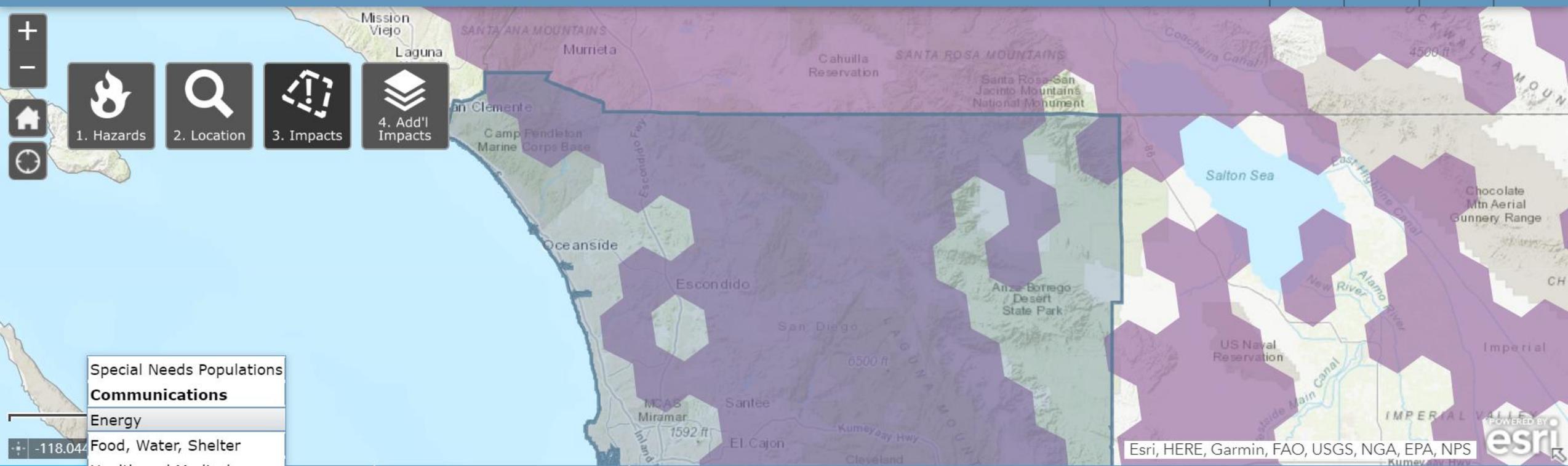
Esri, HERE, Garmin, FAO, USGS, NGA, EPA, NPS

Resource Management Planning Tool v1.0

Legend ERG Add Data Grid Overlay Print

+
-
Home
Refresh

- 1. Hazards
- 2. Location
- 3. Impacts
- 4. Add'l Impacts



- Special Needs Populations
 - Communications**
 - Energy
 - Food, Water, Shelter
 - Health and Medical
 - Hazardous Material
 - Safety and Security
 - Transportation
- Communications

Area of Interest (41) Cellular Service Areas (6)

SET YOUR AREA OF INTEREST [Start Over](#)

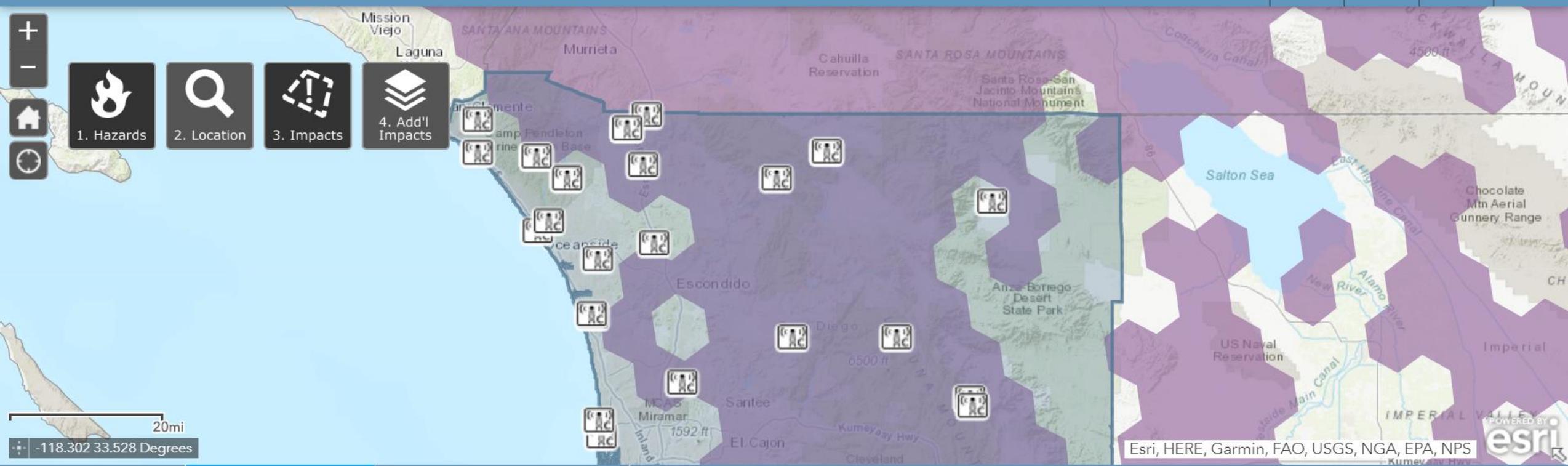
Buffer Distance

0 Miles

Esri, HERE, Garmin, FAO, USGS, NGA, EPA, NPS

Resource Management Planning Tool v1.0

Legend | ERG | Add Data | Grid Overlay | Print



Map navigation controls: Zoom in (+), Zoom out (-), Home, Refresh, Full Screen

- 1. Hazards
- 2. Location
- 3. Impacts
- 4. Add'l Impacts

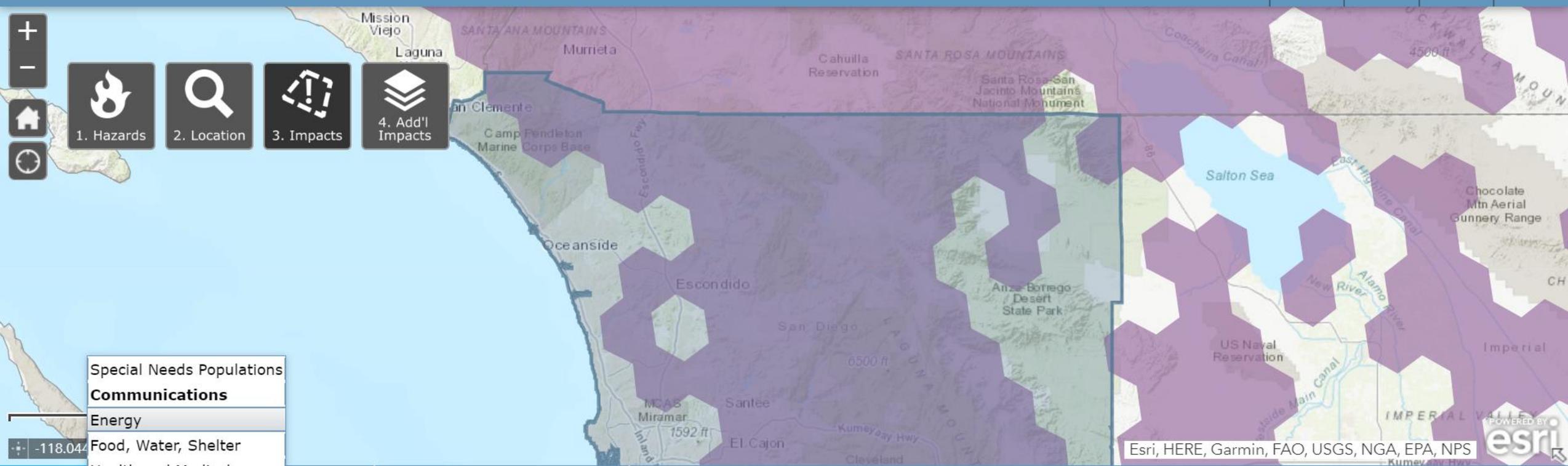
20mi
-118.302 33.528 Degrees

Area of Interest	Cell Towers (41)	Cellular Service Areas (6)
	Licensee: NEW CINGULAR WIRELESS PCS, LLC 18	Licensee: VERIZON WIRELESS (VAW), LLC 23

Esri, HERE, Garmin, FAO, USGS, NGA, EPA, NPS

Resource Management Planning Tool v1.0

Legend ERG Add Data Grid Overlay Print



- Special Needs Populations
 - Communications**
 - Energy
 - Food, Water, Shelter
 - Health and Medical
 - Hazardous Material
 - Safety and Security
 - Transportation
- Communications ▾

Area of Interest (41) Cellular Service Areas (6)

SET YOUR AREA OF INTEREST [Start Over](#)

Buffer Distance

0 Miles

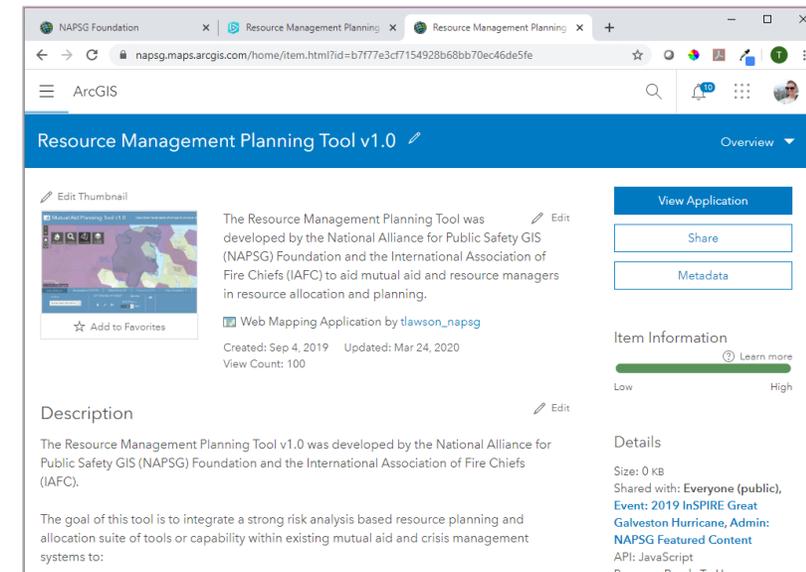
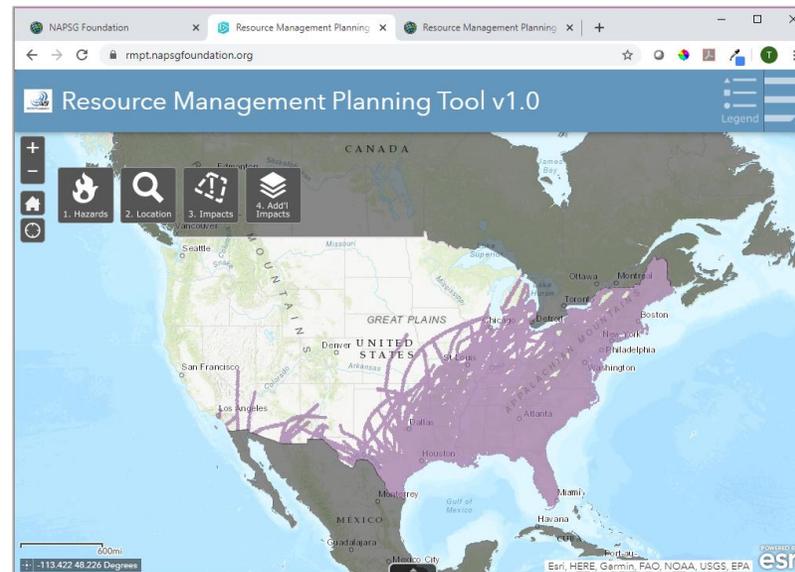
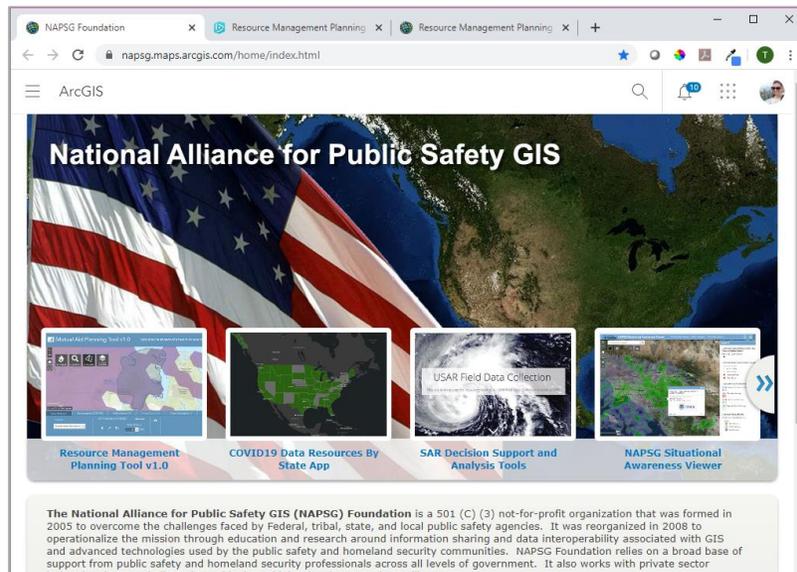
Esri, HERE, Garmin, FAO, USGS, NGA, EPA, NPS

How to Access the Resource Management Planning Tool v1.0

<https://rmpt.napsgfoundation.org/>

- NAPSAG AGOL

- Homepage: <https://napsg.maps.arcgis.com/home/index.html>
- Item Page: <https://napsg.maps.arcgis.com/home/item.html?id=b7f77e3cf7154928b68bb70ec46de5fe>



Resource Management → Mutual Aid Planning Tool

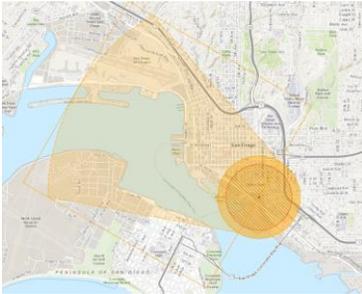
STEP 1 Identify the Hazard

choose a hazard to analyze



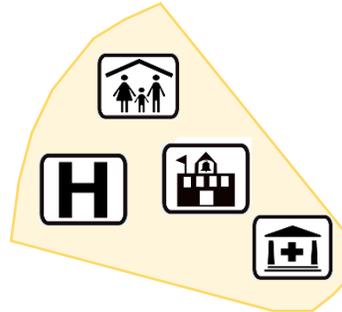
STEP 2 Identify Location

identify your "incident area"



STEP 3 Understand Impacts

intersect & calculate community impacts



- 3 Shelters
- 5 Hospitals
- 15 Schools

Est Population: 37,540

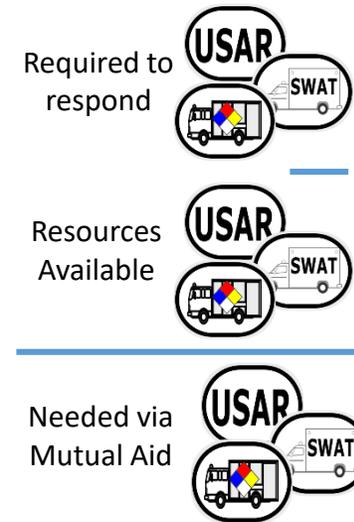
STEP 4 Identify the Resources Needed

calculates resource needs

- 2 USAR Teams
- 1 SWAT Team
- 5 HAZMAT

STEP 5 Assess Available Resources

system assesses available resources and identifies gaps



STEP 6 Implement

adjust & document or order resources



Resource Management Planning Tool + National Mutual Aid System (NMAS)

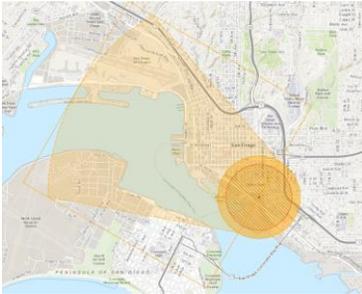
STEP 1 Identify the Hazard

choose a hazard to analyze



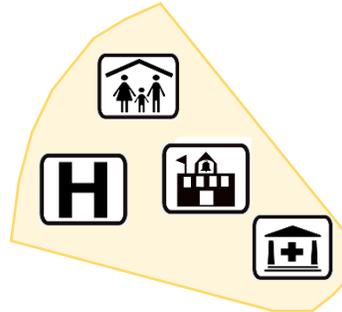
STEP 2 Identify Location

identify your "incident area"



STEP 3 Understand Impacts

intersect & calculate community impacts



- 3 Shelters
- 5 Hospitals
- 15 Schools

Est Population: 37,540

STEP 4 Identify the Resources Needed

User identifies resource needs

- 2 USAR Teams
- 1 SWAT Team
- 5 HAZMAT

STEP 5 Assess Available Resources

User assesses available resources and identify gaps

Required to respond



Resources Available



Needed via Mutual Aid



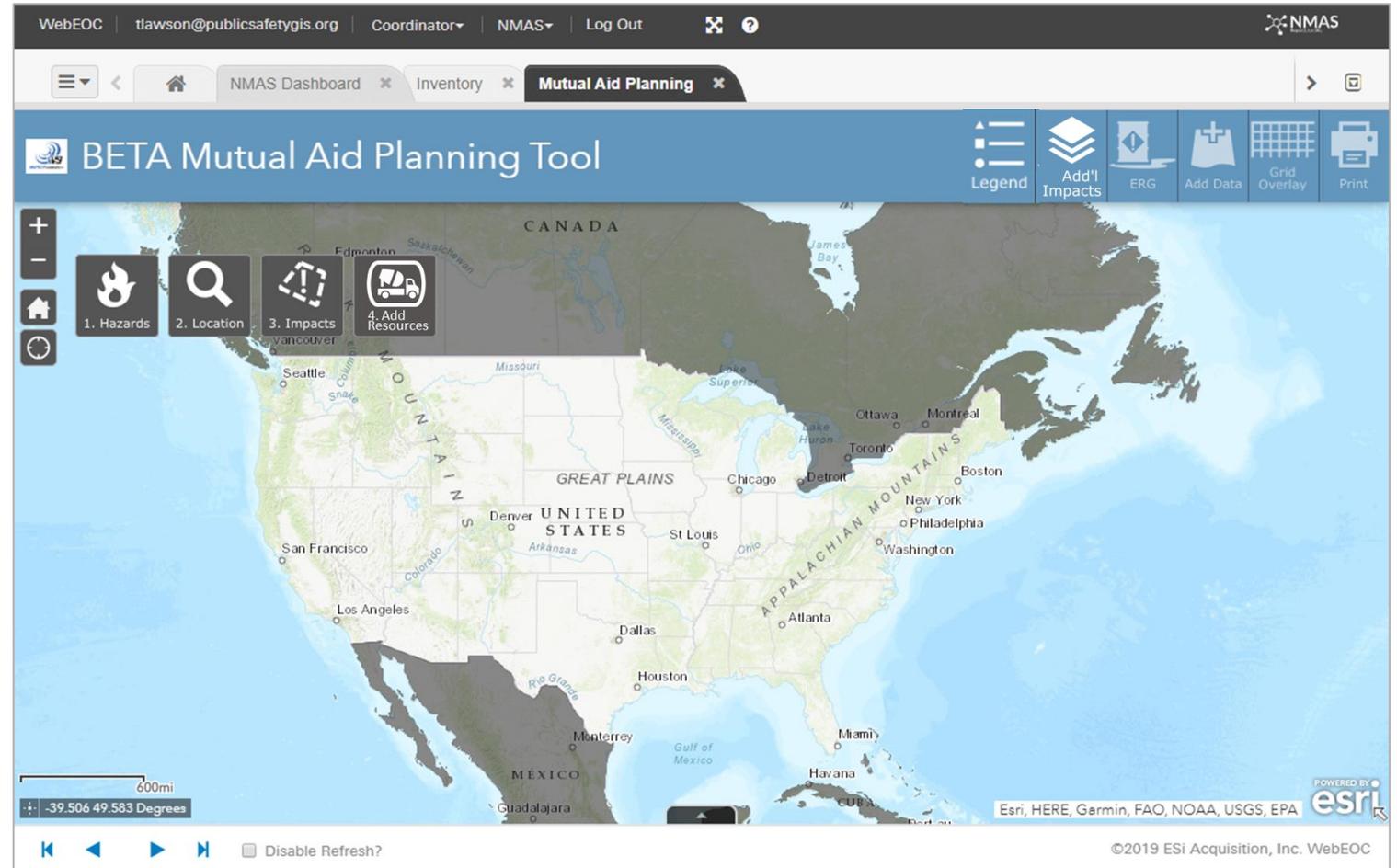
STEP 6 Implement

adjust & document or order resources



Resource Management Planning Tool + National Mutual Aid System (NMAS)

- Currently in the NMAS exercise environment
- Working towards full integration
- Coming Fall 2020!
- More Information on NMAS available at <https://www.iafc.org/topics-and-tools/nmas>



RMPT is Available to Integrate in Any System

- Integration with NMAS serves as an example
- RMPT is agnostic and interoperable with all open standards-based resource management and mutual aid technology systems
- Application and code **available to ALL** agencies and organizations
- Publicly available at no cost
 - There are no licensing agreements or costs associated with using the web-based tool or code

Access the Developer Toolkit!

<https://github.com/NAPSG/RMPT-Developer-Toolkit>

- Download all code to implement at your home agency
- Included:
 - Code for custom AGOL Webapp Builder
 - Supports ability to add and edit “buckets” of information / data

NAPSG / RMPT-Developer-Toolkit

Watch 1 Star 0 Fork 0

Code Issues 0 Pull requests 0 Actions Projects 0 Wiki Security Insights Settings

About

Tricia Lawson edited this page 3 minutes ago · 2 revisions

The Resource Management Planning Tool v1.0 was developed by the National Alliance for Public Safety GIS (NAPSG) Foundation and the International Association of Fire Chiefs (IAFC).

The goal of this tool is to integrate a strong risk analysis based resource planning and allocation suite of tools or capability within existing mutual aid and crisis management systems to:

- Enable risk information to be rapidly integrated into existing crisis management and mutual aid systems
- Increase the accessibility and usage of risk and resource information within existing systems to improve decision making prior to and during an event
- Enable operators and decision makers to make better resource management decisions during the preparedness phase through readiness and in response in an event requiring mutual aid
- Stakeholders identified a 6-step process for successful resource and mutual aid planning. This tool helps to address steps 1 - 3.

STEP 1 Identify the Hazard
Choose a hazard to analyze

STEP 2 Identify Location
Identify your "incident area"

STEP 3 Understand Impacts
Intersect & calculate community impacts

STEP 4 Identify the Resources Needed
Calculates resource needs

STEP 5 Assess Available Resources
System assesses available resources and identifies gaps

STEP 6 Implement
Adjust & document or order resources

This project focuses on these steps.

Your Ideas and Feedback on RMPT

- We need YOUR feedback!
- After using the tool, complete a short questionnaire providing your feedback and suggestions for improvement
 - Provided Feedback at:
<http://survey.constantcontact.com/survey/a07egj1a3vzjz8w3jij/start>
- Improvements to RMPT will be made based on YOUR input!

What's Next?

- Next PrepTech Talk:

April 16, 2020

Future First Responder: Accelerating
Public Safety Communications Research



- InSPIRE

Salt Lake City, UT

October 27-29 2020



<https://www.napsgfoundation.org/events/>

What's Next?

The screenshot shows the NAPSG Foundation website's Events page. The header includes the NAPSG Foundation logo, navigation links (HOME, ABOUT US, WORK WITH US, RESOURCES, EVENTS, NEWS), and social media icons for Facebook, Twitter, and YouTube. The main content is divided into three sections: IN-PERSON EVENTS, VIRTUAL EVENTS, and EVENT ARCHIVE. The IN-PERSON EVENTS section features a table with one entry for a workshop at Texas A&M University, Galveston, from Nov. 12-14, 2019, with a 'Register Now' link. Below this is a 'PrepTech Talks' logo. The VIRTUAL EVENTS section has a table with one entry for a virtual event on Sept. 19, 2019, titled 'Learn the Latest in Preparedness Technology and Tools', with a 'Register Now' link. The EVENT ARCHIVE section has a table with two entries: one for a virtual event on September 5, 2019, titled 'Get Smart on Information Sharing Standards for Crisis Management', with a 'Slide deck & Recording' link, and another for a completed event from August 21-22, 2019, in Frankfort, KY, titled 'National Mutual Aid Technology Exercise (NMATE)'. To the right of these tables is a 'WHAT SHOULD I EXPECT?' section with two paragraphs of text. The first paragraph describes the workshop structure, and the second lists topics like GIS use in incident management. A final paragraph mentions opportunities to meet professionals and contribute to emerging guidelines.

EVENTS

IN-PERSON EVENTS

Date	Location	Event	Registration
Nov. 12-14, 2019	Texas A&M University, Galveston	 INSPIRE Innovation Summit for Preparedness & Resilience	Register Now!

PrepTech Talks

VIRTUAL EVENTS

Date	Location	Event	Registration
Sept. 19, 2019	Virtual	Learn the Latest in Preparedness Technology and Tools	Register Now!

EVENT ARCHIVE

Date	Location	Event	Resources
September 5, 2019	Virtual	Get Smart on Information Sharing Standards for Crisis Management	Slide deck & Recording
August 21-22, 2019	Frankfort, KY	National Mutual Aid Technology Exercise (NMATE)	Event Completed

WHAT SHOULD I EXPECT?

Each workshop is run by a team of state & local public safety & GIS practitioners from each region - through our Regional Leadership Teams. The training sessions offer new insight on how to operationalize geospatial technology to enhance daily operations. Each workshop features presentations on best practices in each region, moderated discussions on challenges, new ideas for information sharing, and networking time to build relationships with your regional community.

Topics include how GIS is used to collect accurate preplan data, analyze risk and assess deployment capability, and access real-time information for incident management. Other benefits of attending include opportunities to:

- Meet and see how public safety professionals are using GIS.
- Contribute to emerging GIS guidelines and model practices.

<https://www.napsgfoundation.org/events/>

Questions

Rebecca Harned: rharned@publicsafetygis.org

Tricia Lawson: tlawson@publicsafetygis.org

Key Links

RMPT Page - <https://www.napsgfoundation.org/resources/rmpt/>

- **Resource Management Planning Tool:** <https://rmpt.napsgfoundation.org/>
- **Developer Toolkit:** <https://github.com/NAPSG/RMPT-Developer-Toolkit>
- **Feedback Questionnaire:** <http://survey.constantcontact.com/survey/a07egj1a3vzjz8w3jij/start>