Office of Access and Functional Needs

Using GIS to Meet CA’s Disability Resource Needs During Disasters

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Presentation Outline

- The Office of Access and Functional Needs (OAFN)
- Integrating response
- The challenge of time
- Identifying assets/resources
- The Cal OES AFN Web Map
- Tour/scenario
- Next steps
- Questions
Access and Functional Needs (AFN)

Individuals who have:

• Developmental, intellectual or physical disabilities
• Chronic conditions or injuries
• Limited English proficiency

And/or…

Individuals who are:

• Older adults, children or pregnant
• Living in institutionalized settings
• Low income, homeless and/or transportation disadvantaged
Every Disaster is Different
In All But One Way…
Cal OES – Office of Access and Functional Needs (OAFN)

Established in 2008 to identify the needs of people with disabilities and others with access and functional needs before, during, and after a disaster.

OAFN integrates disability needs and resources into emergency management systems and offers guidance to emergency managers, planners, service providers.
2015 Butte/Valley Fires
California State Operations Center (SOC)
Portable Accessible Showers
Remember
The Power of Water
How do we integrate AFN into emergency planning?

Together!
The Primary Challenge

- **Time**
  - It took too much time to *identify* which AFN-related assets/resources were needed
  - It took too much time to *locate* where AFN-related assets/resources were
  - Once identified and located, it took time to procure/*deploy* assets/resources
Continuous Improvement

- **Disaster Response: Key Components**
  - The capability to rapidly **identify** needed assets/resources
  - The capability to rapidly **locate** needed assets/resources
  - The capability to rapidly **deploy** needed assets/resources

- **Disaster Response: Key Understandings**
  - Assets/resources are needed before, during and after disasters
  - Assets/resources are limited in number and availability
  - Assets/resources are critical to an effective response and essential to supporting individuals with AFN
A Better Way

• The Cal OES Access and Functional Needs Web Map
What’s the AFN Web Map?

- Think “Google Earth”
  - When I want pizza, I type “Domino’s Pizza”
  - Pins drop showing me all restaurant locations
  - I see what’s close by and evaluate where I want to go based on traffic, neighborhood, etc.
  - Placing my cursor over a pin calls up store address, website, phone number, business hours, etc.
  - All this enables me to make an informed decision
  - All my pizza needs are met
Now replace “pizza” with Access and Functional Needs-related assets and resources
We Started With the Statistics

- Using data from the U.S. Census, we identified the following information for the state of California:
  - Total state population
  - Total number of individuals in CA with a disability
  - Disability type (hearing, vision, cognitive and ambulatory)
  - Ethnicity
  - Language
  - Age
Identifying AFN “Resources” by Type and Location

• For our purposes, we defined “resources” as the personnel or facilities available for assignment in disaster response

Personnel:
  – ASL Interpreting Services
  – CERT Programs
  – Language Translation Services
  – Regional Centers

Facilities:
  – California Fairgrounds & Expos
  – National Shelter System (American Red Cross)
  – National Shelter System (non-ARC)
Identifying AFN “Assets” by Type and Location

- For our purposes, “assets” refer to equipment or supplies
  - Accessible Hygiene Resources
  - Accessible Transportation
  - Assistive Technology
  - Independent Living Centers
The California AFN Web Map

Vision

To develop a web map, which would contain geographically searchable AFN-relevant information categorized into substantive and meaningful areas in such a way as to forever change how we integrate the needs of individuals with disabilities and access and functional needs before, during and after disasters.
Let’s take a tour!
AFN Web Map Symbols

Legend

OAFN - County Statistics
- Accessible Hygiene Resources
- Accessible Transportation
  - Total Vehicles
    - Greater than 100
    - > 50 to 100
    - > 25 to 50
    - > 10 to 25
    - Less than 10

American Sign Language Interpreting Services
- Assistive Technology
- California Fairgrounds and Expos
- Independent Living Centers

Language Translation Services
- National Shelter System - Other Shelters
- National Shelter System - Red Cross Shelters

Regional Centers
- Regional Centers
- Counties above State Disability rate of 10.3%
  - Percentage
    - > 20% to 22.8%
    - > 16% to 20%
    - > 13% to 16%
    - >10.2% to 13%

Cal OES
GOVERNOR'S OFFICE OF EMERGENCY SERVICES
Sacramento County

Fire Scenario

• There is a wildfire in Sacramento County.

• No disaster declaration.

• Given the rate of speed, there may be an evacuation within a few hours.
Fire Scenario

- The Web Map provides countywide stats outlining total population and the percentage of individuals with a disability.

- Here we see that Sacramento County has 1,450,277 people; 12.9% of which have a disability.
Sacramento County (3 of 9)

Fire Scenario

- The Web Map breaks down disability by type
- Here we see that 4.7% have hearing difficulty;
- 4.9% have vision difficulty;
- 5.1% have cognitive difficulty; and
- 5.2% have ambulatory difficulty.
Sacramento County (4 of 9)

Fire Scenario

The Web Map also provides overviews on:

- Ethnicity
- Language(s) spoken at home
- Age

<table>
<thead>
<tr>
<th>Sacramento County - Ethnicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>White: 59.7%</td>
</tr>
<tr>
<td>Black or African American: 10.1%</td>
</tr>
<tr>
<td>American Indian and Alaska Native: 0.9%</td>
</tr>
<tr>
<td>Asian: 14.8%</td>
</tr>
<tr>
<td>Native Hawaiian and Other Pacific Islander: 1.0%</td>
</tr>
<tr>
<td>Hispanic or Latino (of any race): 22.1%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sacramento County - Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speak only English: 68.7%</td>
</tr>
<tr>
<td>Speak a language other than English: 31.3%</td>
</tr>
<tr>
<td>Spanish: 13.1%</td>
</tr>
<tr>
<td>Other Indo-European languages: 7.5%</td>
</tr>
<tr>
<td>Asian and Pacific Island languages: 10.0%</td>
</tr>
<tr>
<td>Other languages: 0.7%</td>
</tr>
</tbody>
</table>
In this scenario, I now know I’m going to need the following:

- Accessible transportation
Fire Scenario

In this scenario, I now know I’m going to need the following:

- ASL Interpreters
Fire Scenario

In this scenario, I now know I’m going to need the following:

- Language translators
Fire Scenario

I’m also going to want to check in with the local Regional Center
National Shelter System - Red Cross Shelters

PIONEER ELEMENTARY SCHOOL
5215 HAMEL STREET
DAVIS, CA 95618
530-757-5480

Operating Agency: American Red Cross
Suitability: Suitable for evacuation

Accessible Hygiene Resources

Grainger Industrial Services
3691 Industrial Blvd
West Sacramento, CA 95691
(800) 225-5994

Website
Unlocking Access
Trinity County
What's next?
Greatness
Data Sharing

• The Web Map is a work in progress
  – It is populated by Cal OES as we become aware of assets and resources in the state

• Local and regional stakeholders
  – Download instructions from our website on how to easily submit info to us about the assets and resources in your area
  – We will upload the data to the Web Map for all to use

• Evolution
  – As you submit data, the Web Map will become the comprehensive, definitive AFN-specific tool for emergency managers

And through it all, we become a safer, more resilient California.
Conclusion

• **The utility of the Web Map**
  – As we use it; preparedness and partnership will increase
  – And as they do; response will improve

• **End state**
  – As response improves; lives will be changed and improved
  – We become a safer, more resilient *California*.  
  – We become a safer, more resilient *nation*. 
Cal OES Access and Functional Needs Web Map

Here’s the link to the web map: http://tinyurl.com/CAafnWebMap
Office of Access and Functional Needs

Questions?

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