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HHS emPOWER Initiative Demo: Using Medicare De-Identified and Individual Data, Maps, and Tools for Access and Functional Needs Emergency Preparedness, Response, Recovery, and Resilience Activities

DALLAS HILTON ANATOLE | APRIL 19-22, 2016

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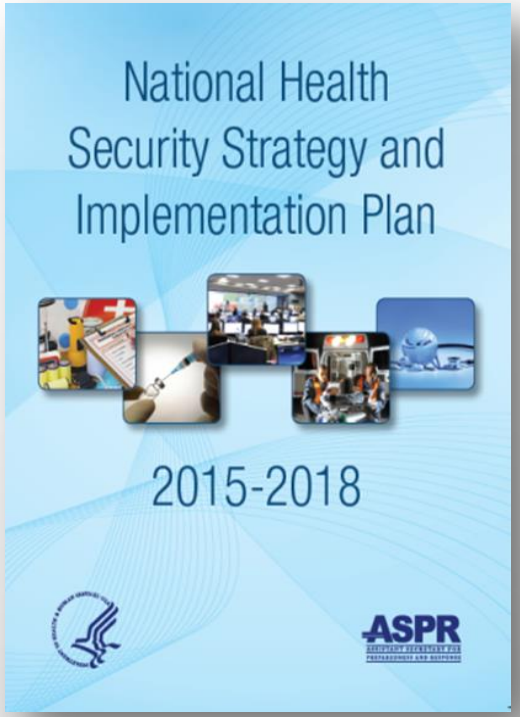
National Health Security Strategy and Implementation Plan 2015-2018

1 Build and sustain healthy, resilient communities.

2 Ensure comprehensive health situational awareness to support decision-making before incidents and during response and recovery operations.

4 Enhance the integration and effectiveness of the public health, healthcare, and emergency management systems.



URL: http://www.phe.gov/Preparedness/planning/authority/nhss/Pages/default.aspx

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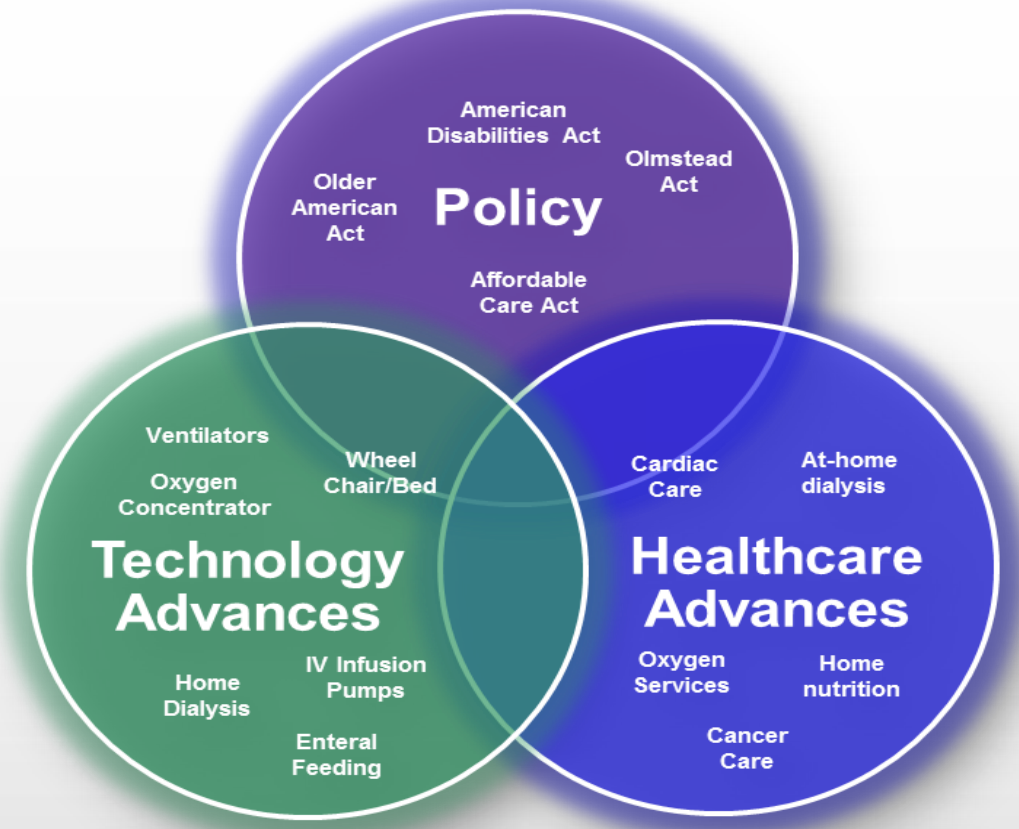
Do you know who lives in your community and what their access and functional needs are?

Can we help a community better understand how many at-risk individuals with access and functional needs rely upon electricity-dependent medical and assistive equipment, healthcare services, and their local healthcare system- daily, weekly, monthly?

Can we better understand, assess, and mitigate disaster-induced healthcare system stress and its impact on access, utilization, and health outcomes for at-risk populations with access and functional needs?



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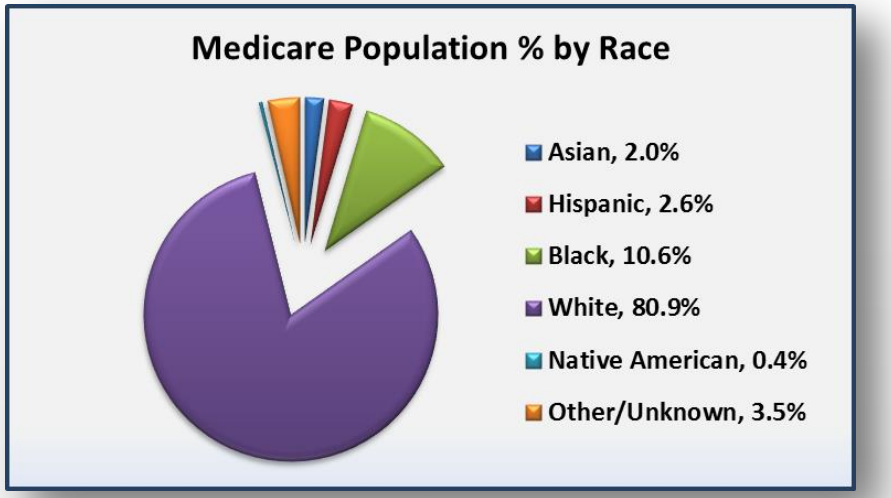
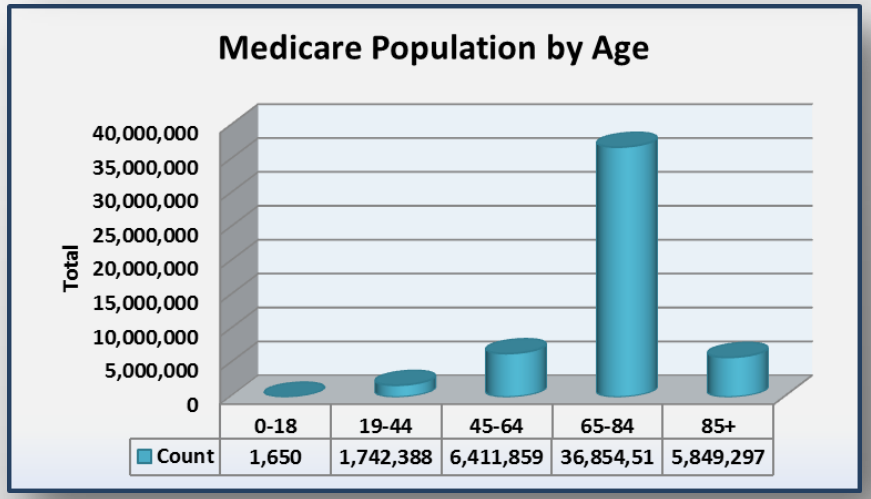
How can federal health data inform and support preparedness, response, and recovery?

- **Medicare insures 50 million Americans**
  - 50 states, 5 territories, & DC
  - 65+ years, blind, disabled adults & children
  - ~93% of dialysis-dependent end-stage renal disease population
  - ~20% of State Medicaid (mostly disabled)

- **Medicare beneficiaries may reside in:**
  - personal homes
  - residential or long-term care facilities
  - assisted living communities
  - board and care homes
  - subsidized housing communities





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White House Strong Cities, Strong Communities Initiative
" A First-in-the-Nation At-Risk Medicare Data Pilot Exercise"
City of New Orleans, June 10-11, 2013

- **611 Had a Ventilator or Oxygen Concentrator**
  - 191 homes visited, 75% response rate
  - 93% had Medicare-identified durable medical equipment (DME)

- **Individual Preparedness Findings:**
  - 15 of 611 were enrolled in NOLA's registry
  - 8 of 611 were enrolled in electric company's registry
  - 41% did not have an emergency plan
  - 55% would need assistance in an emergency

- **NOLA Emergency Response Outreach Uses:**
  - 2013 Boil Water Emergency- enteral DME
  - 2014 Ice Storm- early dialysis

Dr. Nicole Lurie, U.S. Department of Health and Human Services Assistant Secretary for Preparedness and Response, with Dr. Karen DeSalvo, Health Commissioner for the City of New Orleans Health Department in June 2013

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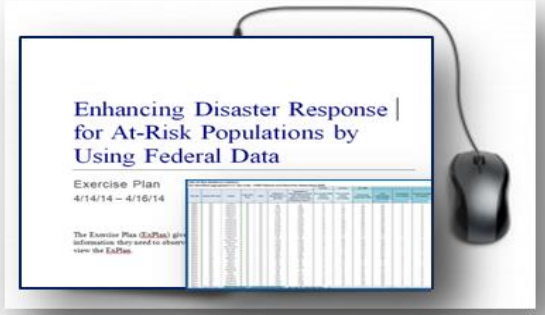
HHS emPOWER Initiative
"HHS' Data and Mapping Quality Improvement Partnership"

"Right Data, Right Person, Right Tool, Right Time"

DATA



TOOLS

MAPS

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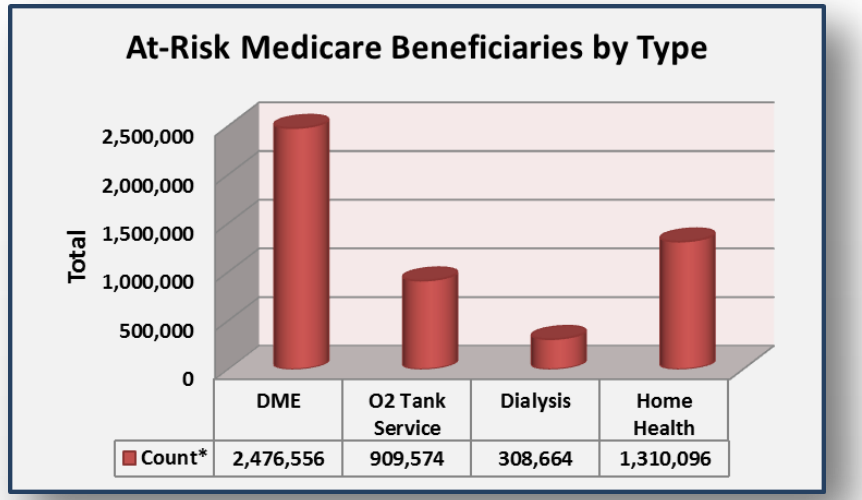
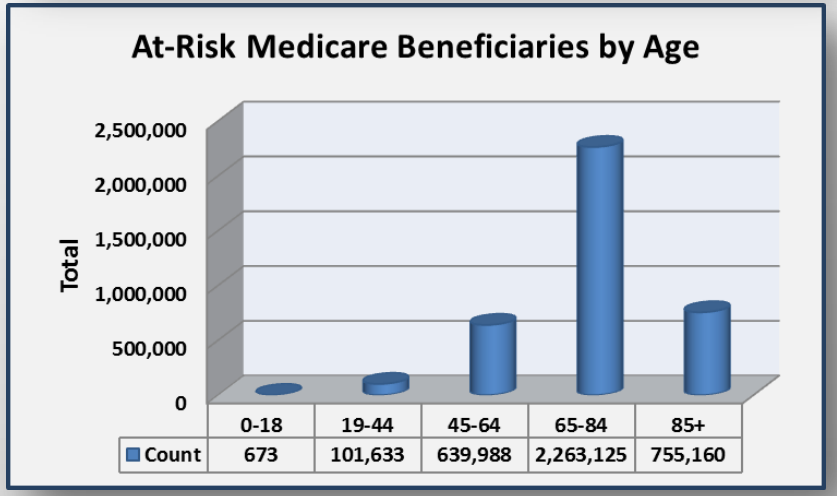
National HHS emPOWER Dataset

Data as of 1/27/2016

- **3.8M at-risk Medicare beneficiaries living at home independently**
- **Medicare at-risk data types include:**
  - Electricity-Dependent Durable Medical Equipment (DME)
    - Ventilators
    - Oxygen concentrators
    - Enteral feeding machines
    - Intravenous (IV) pumps
    - Suction pumps
    - At-home dialysis machines
    - Electric Wheelchairs/scooters
    - Electric Beds
  - Oxygen (O^2) Tank Services
  - Dialysis Services (facility/home)
  - Home Health Services
- **Medicare at-risk data types include:**
  - De-identified-restricted & public
  - Individual-restricted to public health authorities





Data as of 1/27/2016

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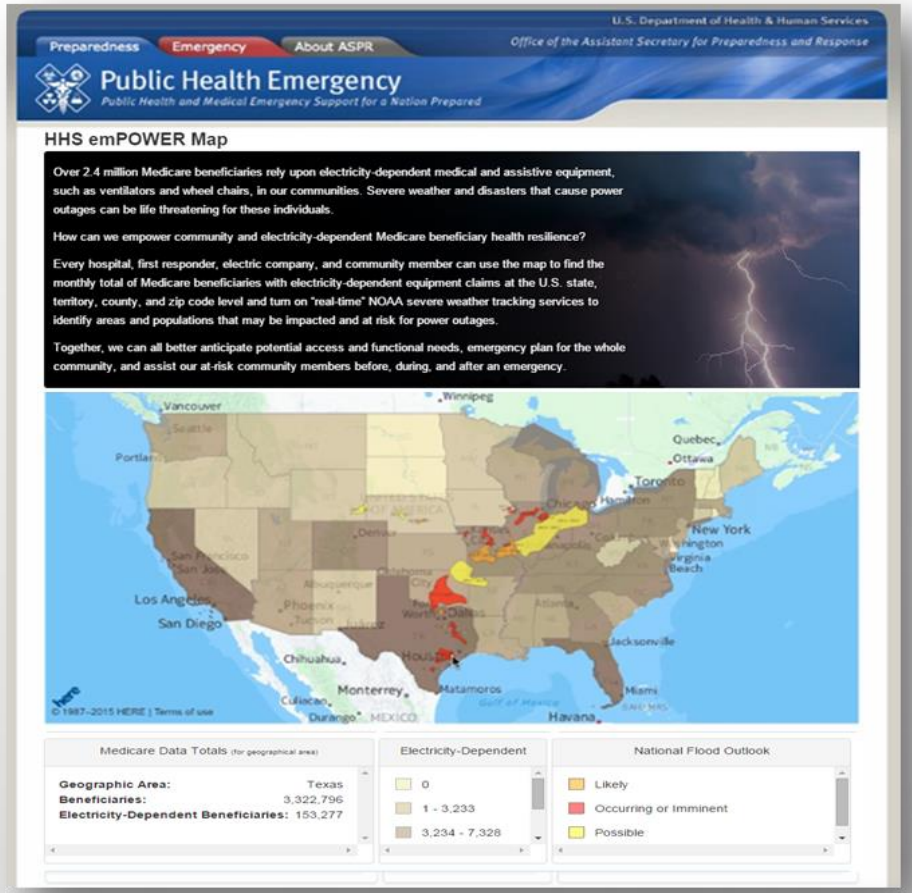
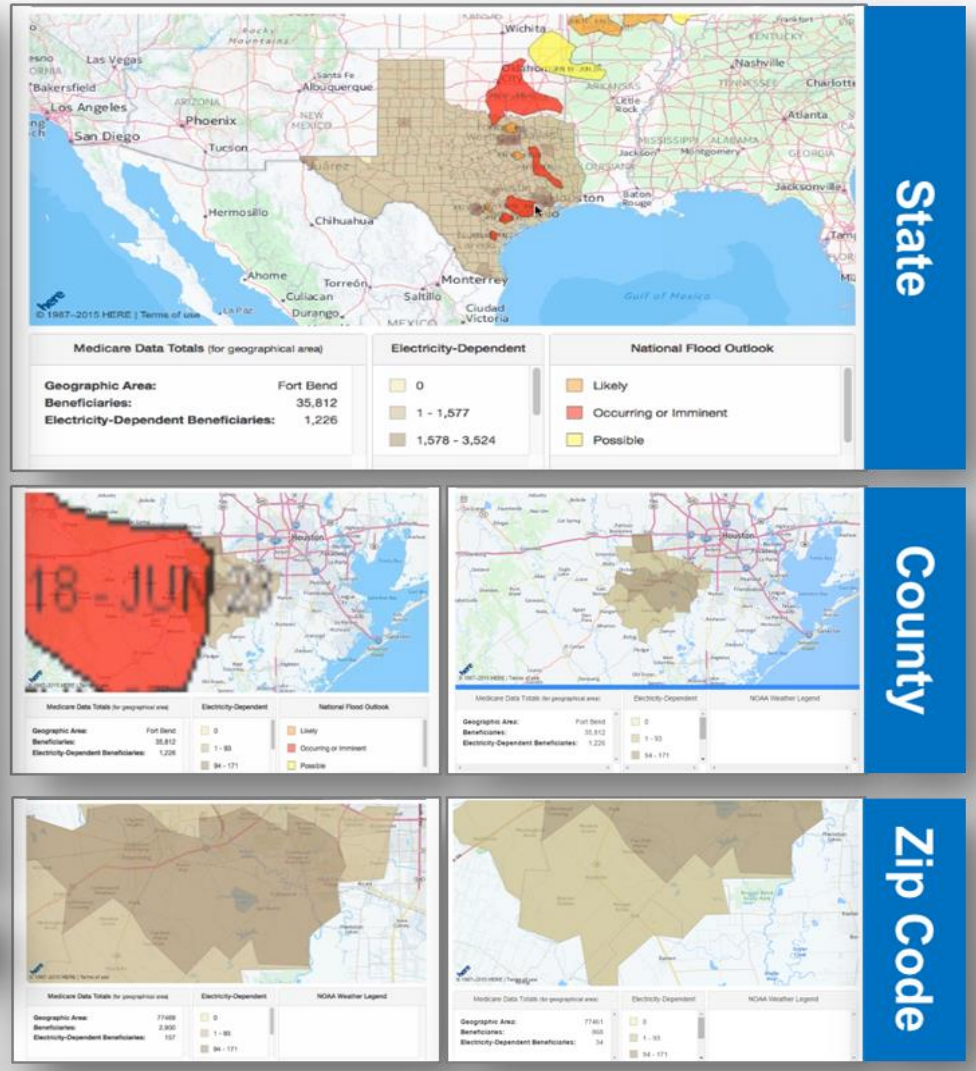
HHS emPOWER Map

Community Public Map-- People Helping People at the Zip Code Level



"Medicare Data Meets NOAA Weather Data In Your Community"



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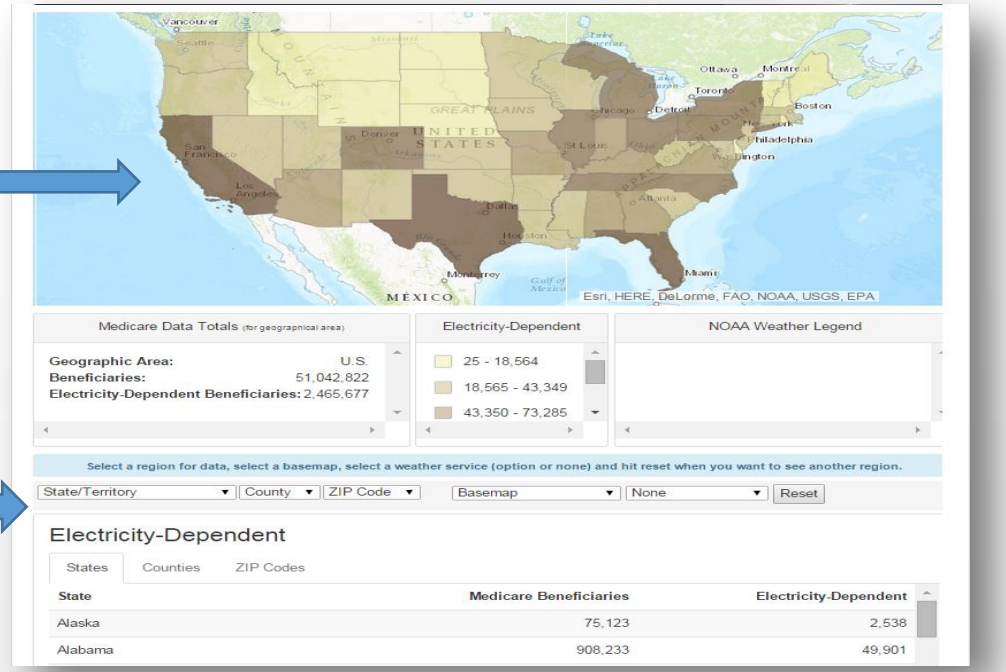
What data can I find? How can I use the HHS emPOWER Map?

- **De-identified Data:**
  - Monthly # Medicare beneficiaries
  - Monthly # of electricity-dependent Medicare beneficiaries- *Recent claim for 8 types of electricity-dependent durable medical equipment (DME)*
- **NOAA Severe Weather Tracking**
  - Hurricane*
  - Radar
  - Precipitation*
  - Storm Prediction*
  - Flood Outlook*
  - None- *default*
- **Background Maps (ESRI)**
  - Base map*
  - Topographic*
  - Streets*
  - Satellite*
  - Hybrid
  - Grey
  - Dark Grey
  - Oceans
  - National Geographic
  - Terrain*
  - Open Street Map

Select an Area by Hovering Your Mouse Over a State, County, and then Zip Code to find data in the Medicare Data Total Section or in the Dynamic Table Below

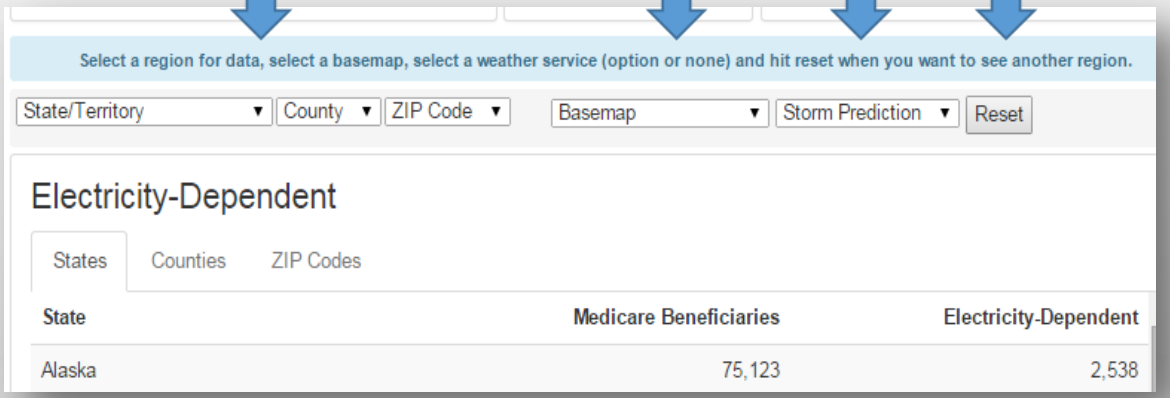


Or Use the Drop Down to Select a State, County, and then Zip Code for Data

Select Base Map

Select Weather

Reset



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Can I consume and display the HHS emPOWER Map rest service in our GIS system?

YES! First locate your GIS expert, then them the great news, and ask them to:

Go to: Geohealth.hhs.gov

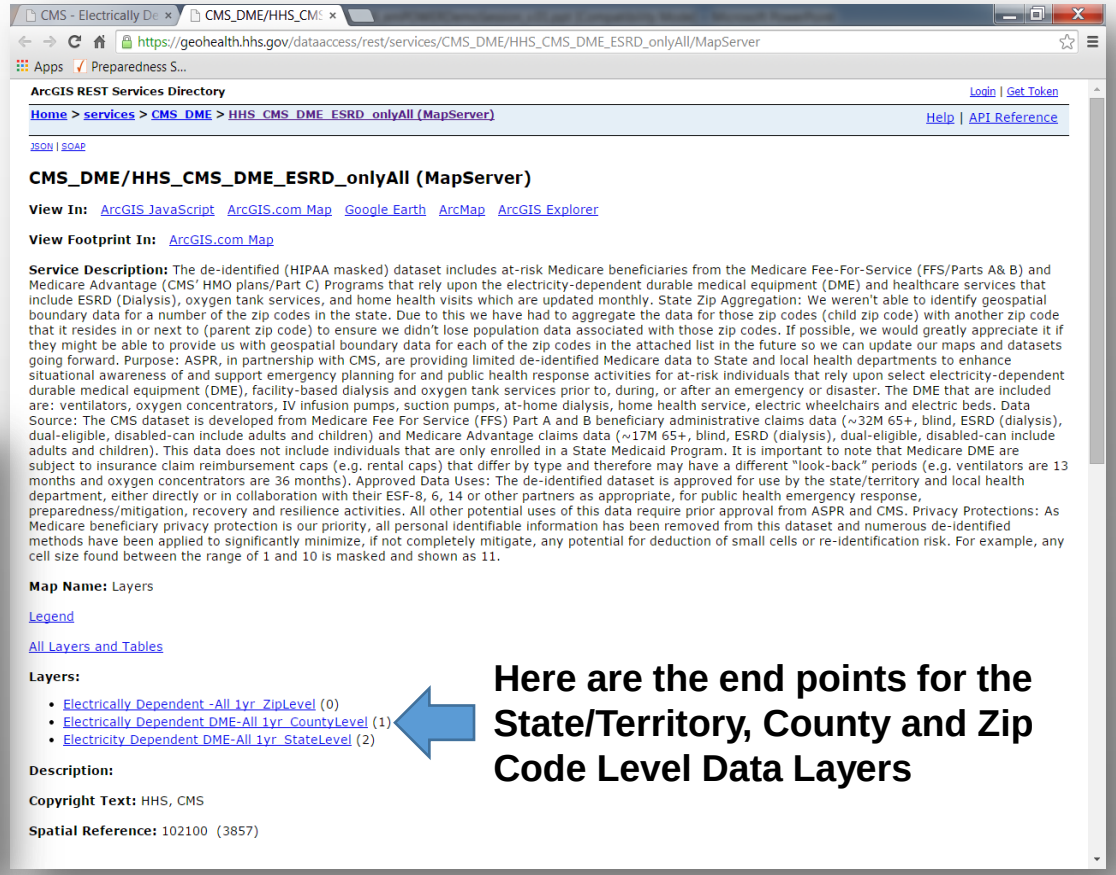
Click on More Details

Scroll to Map contents and click on the "HHS_CMS_DME_ESRD_onlyAll" for the end points

OR

Go directly to the URL:

https://geohealth.hhs.gov/dataaccess/rest/services/CMS_DME/HHS_CMS_DME_ESRD_onlyAll/MapServer



ArcGIS REST Services Directory

Home > services > CMS_DME > HHS_CMS_DME_ESRD_onlyAll (MapServer)

CMS_DME/HHS_CMS_DME_ESRD_onlyAll (MapServer)

View In: ArcGIS JavaScript ArcGIS.com Map Google Earth ArcMap ArcGIS Explorer

View Footprint In: ArcGIS.com Map

Service Description: The de-identified (HIPAA masked) dataset includes at-risk Medicare beneficiaries from the Medicare Fee-For-Service (FFS/Parts A& B) and Medicare Advantage (CMS' HMO plans/Part C) Programs that rely upon the electricity-dependent durable medical equipment (DME) and healthcare services that include ESRD (Dialysis), oxygen tank services, and home health visits which are updated monthly. State Zip Aggregation: We weren't able to identify geospatial boundary data for a number of the zip codes in the state. Due to this we have had to aggregate the data for those zip codes (child zip code) with another zip code that it resides in or next to (parent zip code) to ensure we didn't lose population data associated with those zip codes. If possible, we would greatly appreciate it if they might be able to provide us with geospatial boundary data for each of the zip codes in the attached list in the future so we can update our maps and datasets going forward. Purpose: ASPR, in partnership with CMS, are providing limited de-identified Medicare data to State and local health departments to enhance situational awareness of and support emergency planning for and public health response activities for at-risk individuals that rely upon select electricity-dependent durable medical equipment (DME), facility-based dialysis and oxygen tank services prior to, during, or after an emergency or disaster. The DME that are included are: ventilators, oxygen concentrators, IV infusion pumps, suction pumps, at-home dialysis, home health service, electric wheelchairs and electric beds. Data Source: The CMS dataset is developed from Medicare Fee For Service (FFS) Part A and B beneficiary administrative claims data (~32M 65+, blind, ESRD (dialysis), dual-eligible, disabled-can include adults and children) and Medicare Advantage claims data (~17M 65+, blind, ESRD (dialysis), dual-eligible, disabled-can include adults and children). This data does not include individuals that are only enrolled in a State Medicaid Program. It is important to note that Medicare DME are subject to insurance claim reimbursement caps (e.g. rental caps) that differ by type and therefore may have a different "look-back" periods (e.g. ventilators are 13 months and oxygen concentrators are 36 months). Approved Data Uses: The de-identified dataset is approved for use by the state/territory and local health department, either directly or in collaboration with their ESF-8, 6, 14 or other partners as appropriate, for public health emergency response, preparedness/mitigation, recovery and resilience activities. All other potential uses of this data require prior approval from ASPR and CMS. Privacy Protections: As Medicare beneficiary privacy protection is our priority, all personal identifiable information has been removed from this dataset and numerous de-identified methods have been applied to significantly minimize, if not completely mitigate, any potential for deduction of small cells or re-identification risk. For example, any cell size found between the range of 1 and 10 is masked and shown as 11.

Map Name: Layers

Legend

All Layers and Tables

Layers:

- Electrically Dependent -All 1yr ZipLevel (0)
- Electrically Dependent DME-All 1yr CountyLevel (1)
- Electricity Dependent DME-All 1yr StateLevel (2)

Description:

Copyright Text: HHS, CMS

Spatial Reference: 102100 (3857)

Here are the end points for the State/Territory, County and Zip Code Level Data Layers

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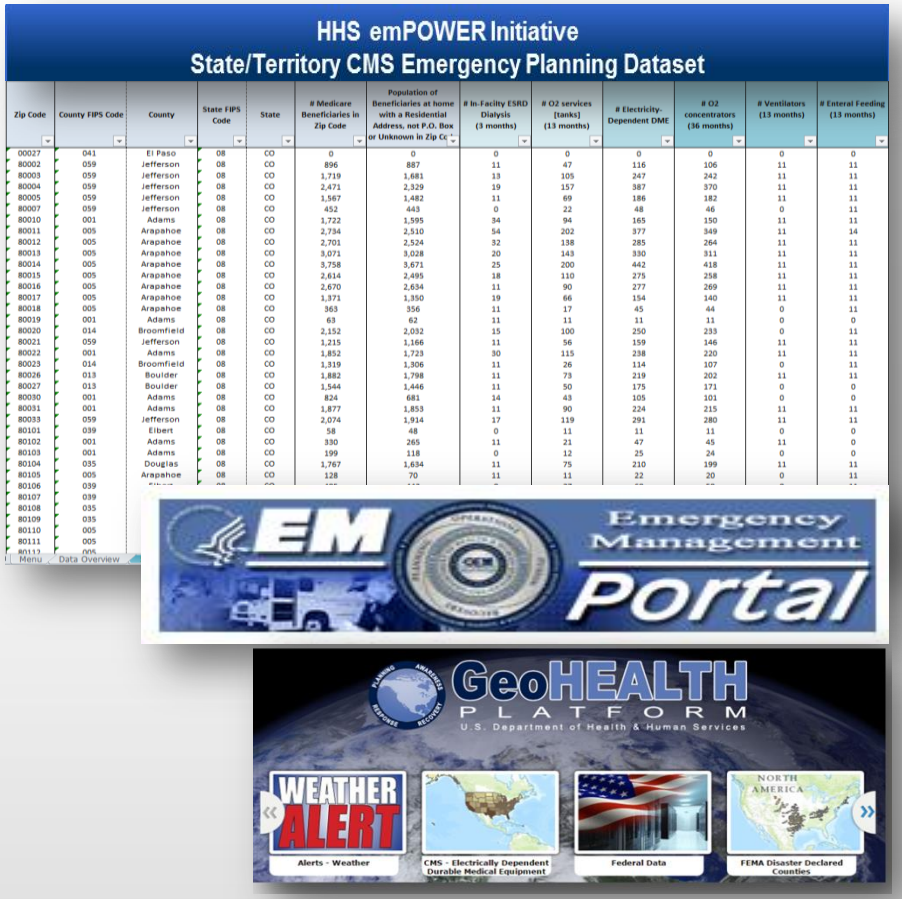
HHS emPOWER Initiative
State Health Department De-identified Emergency Planning Datasets

- **Provides more granular de-identified data:**
  - Medicare totals by type of DME and healthcare services
- **Sample Use Cases:**
  - Informing power restoration prioritization decision making at all levels
  - Identifying optimal locations, support, and power needs for multiple devices in general population shelters
  - Assessing potential transportation needs for evacuating or transport to healthcare providers (e.g. dialysis)
  - Anticipating potential EMAC requests for at-risk populations residing by borders
  - Sets the stage for life-saving assistance



http://geohealth.hhs.gov/arcgis/home/

HHS emPOWER Initiative
State Health Department De-identified Emergency Planning Dataset

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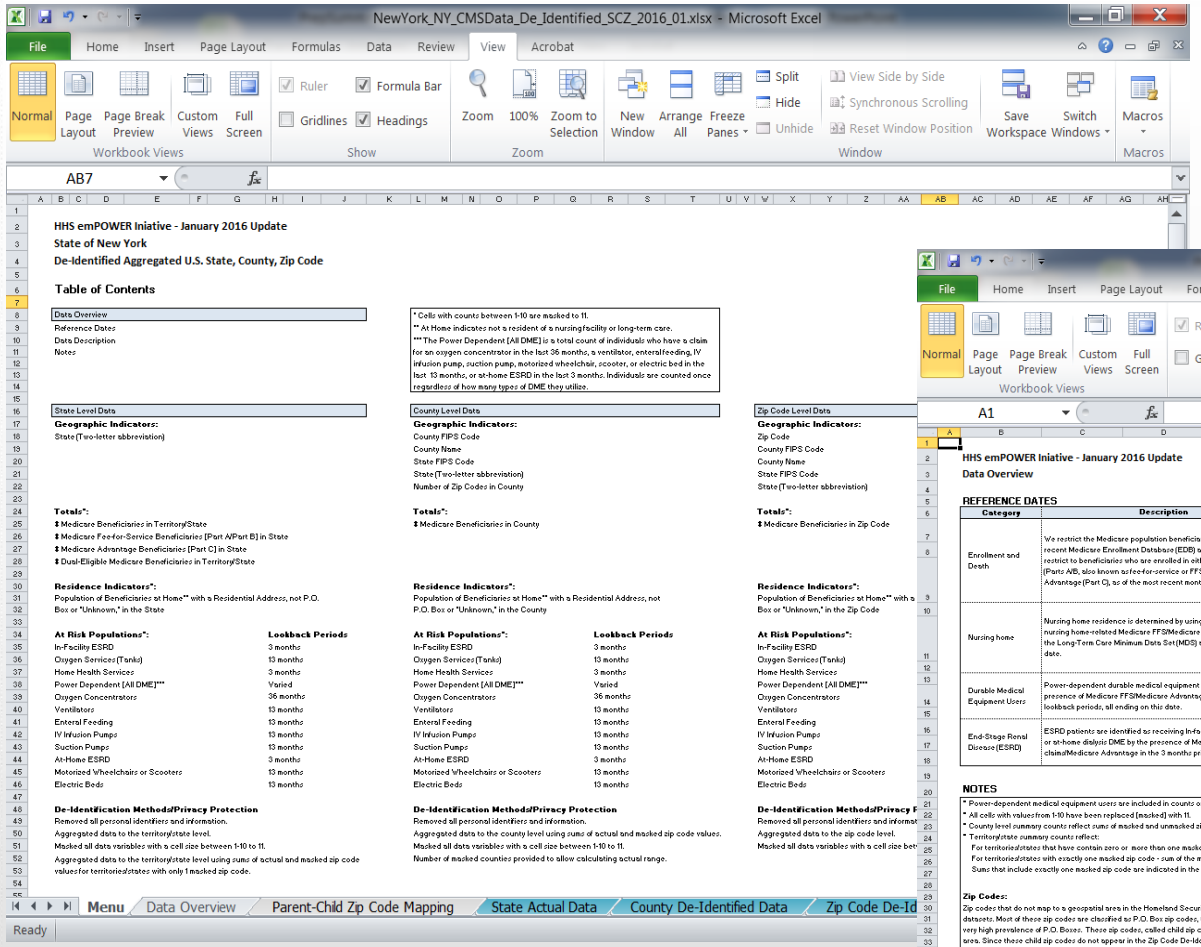
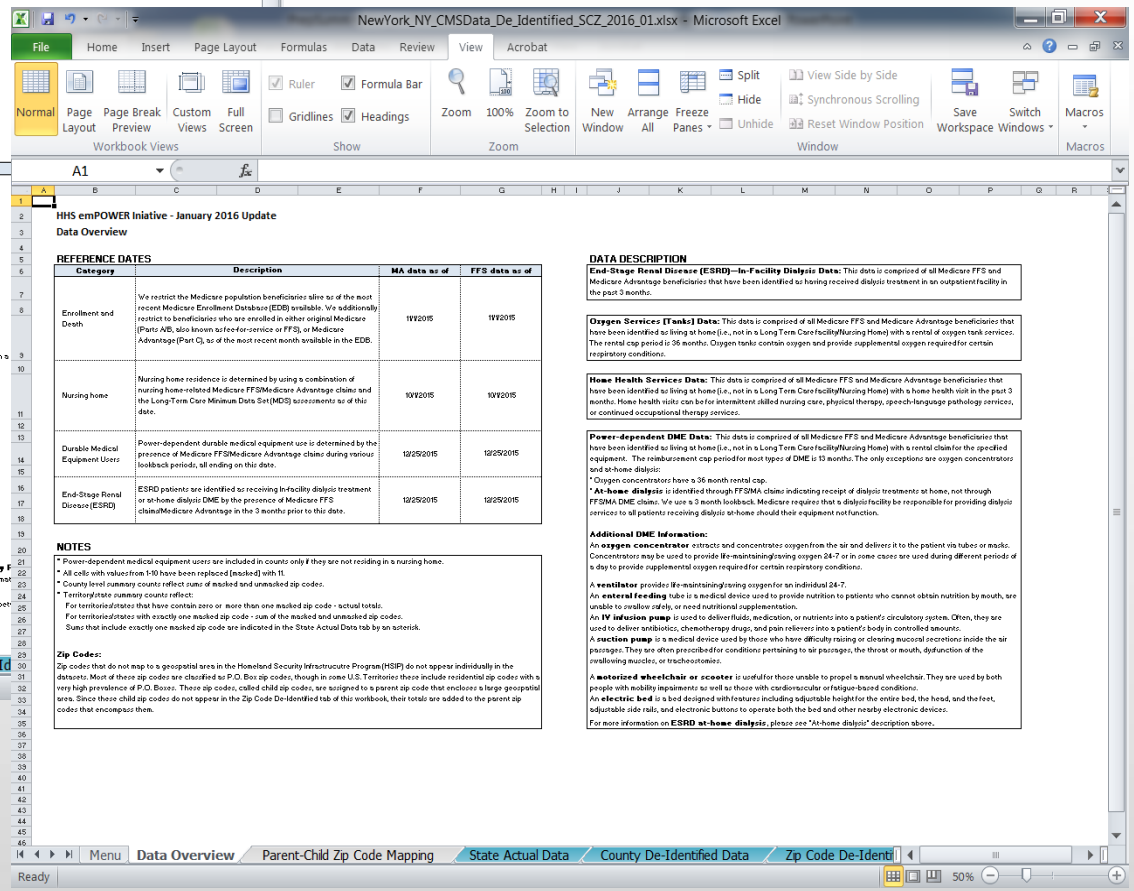


Menu Tab



Data Overview Tab

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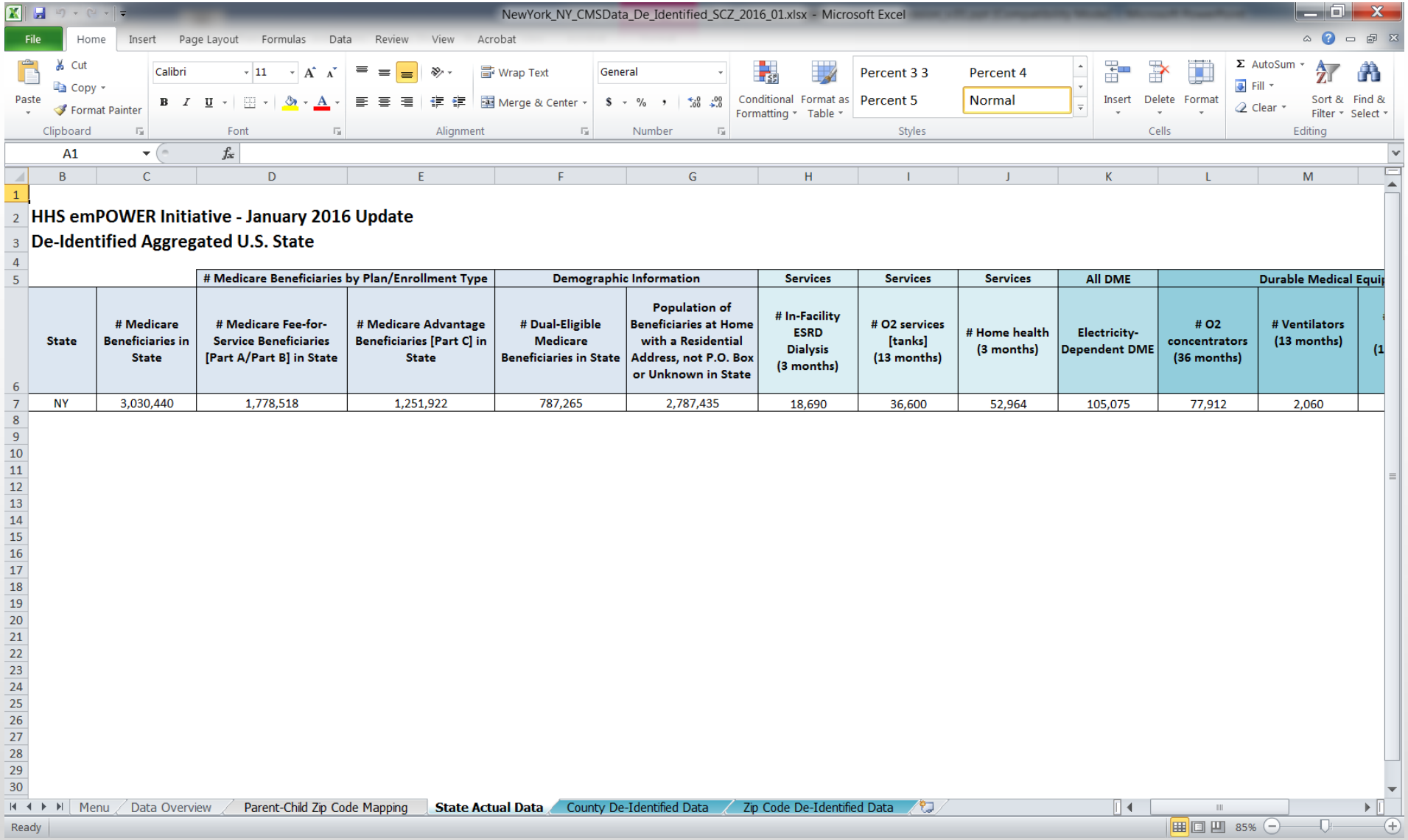
State Health Department De-identified Emergency Planning Datasets



HHS emPOWER Initiative - January 2016 Update

De-Identified Aggregated U.S. State

		# Medicare Beneficiaries by Plan/Enrollment Type		Demographic Information		Services	Services	Services	All DME	Durable Medical Equip		
State	# Medicare Beneficiaries in State	# Medicare Fee-for-Service Beneficiaries [Part A/Part B] in State	# Medicare Advantage Beneficiaries [Part C] in State	# Dual-Eligible Medicare Beneficiaries in State	Population of Beneficiaries at Home with a Residential Address, not P.O. Box or Unknown in State	# In-Facility ESRD Dialysis (3 months)	# O2 services [tanks] (13 months)	# Home health (3 months)	Electricity-Dependent DME	# O2 concentrators (36 months)	# Ventilators (13 months)	(1
NY	3,030,440	1,778,518	1,251,922	787,265	2,787,435	18,690	36,600	52,964	105,075	77,912	2,060	

State Tab

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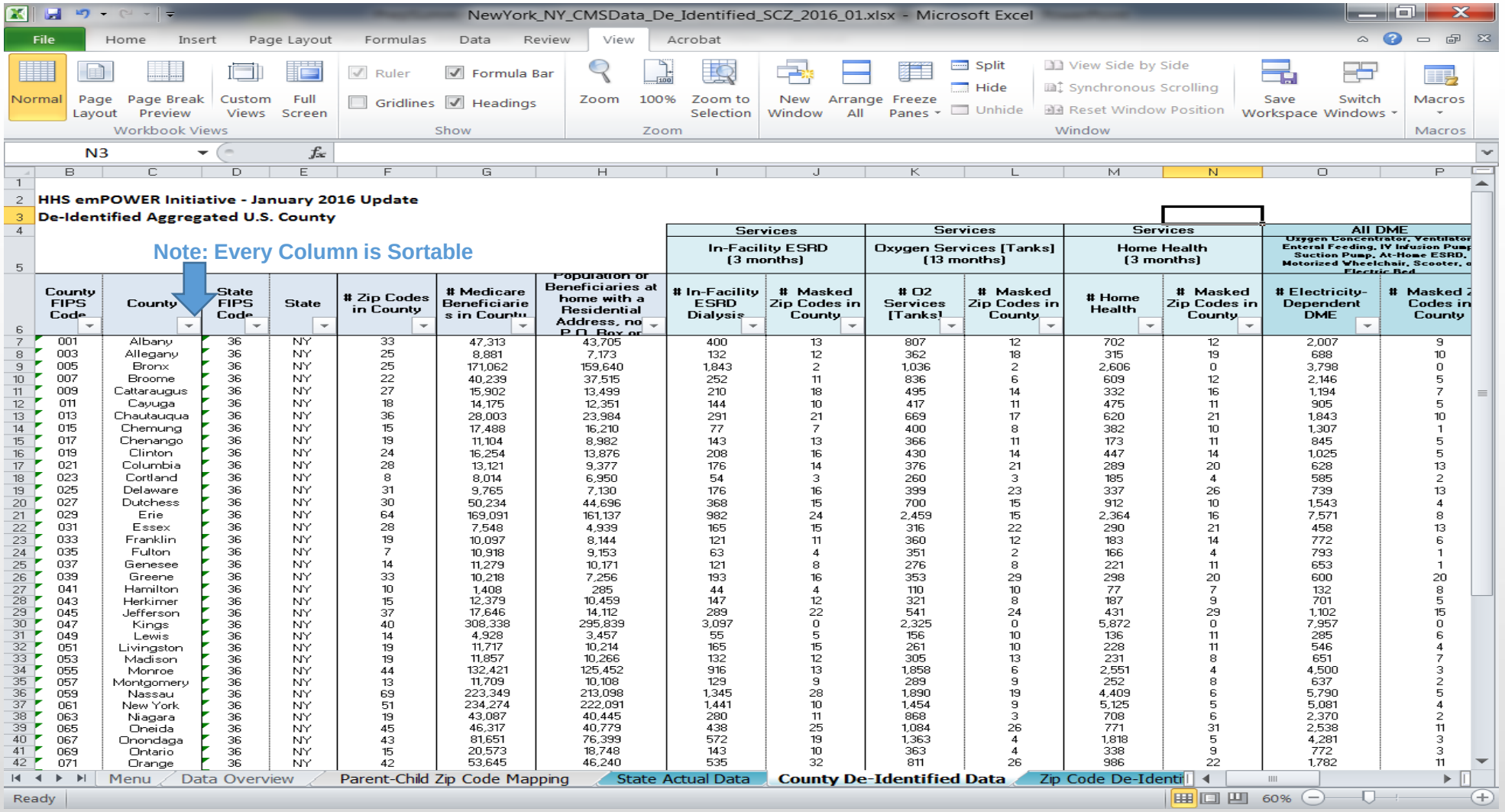
State Health Department De-identified Emergency Planning Dataset



County Tab

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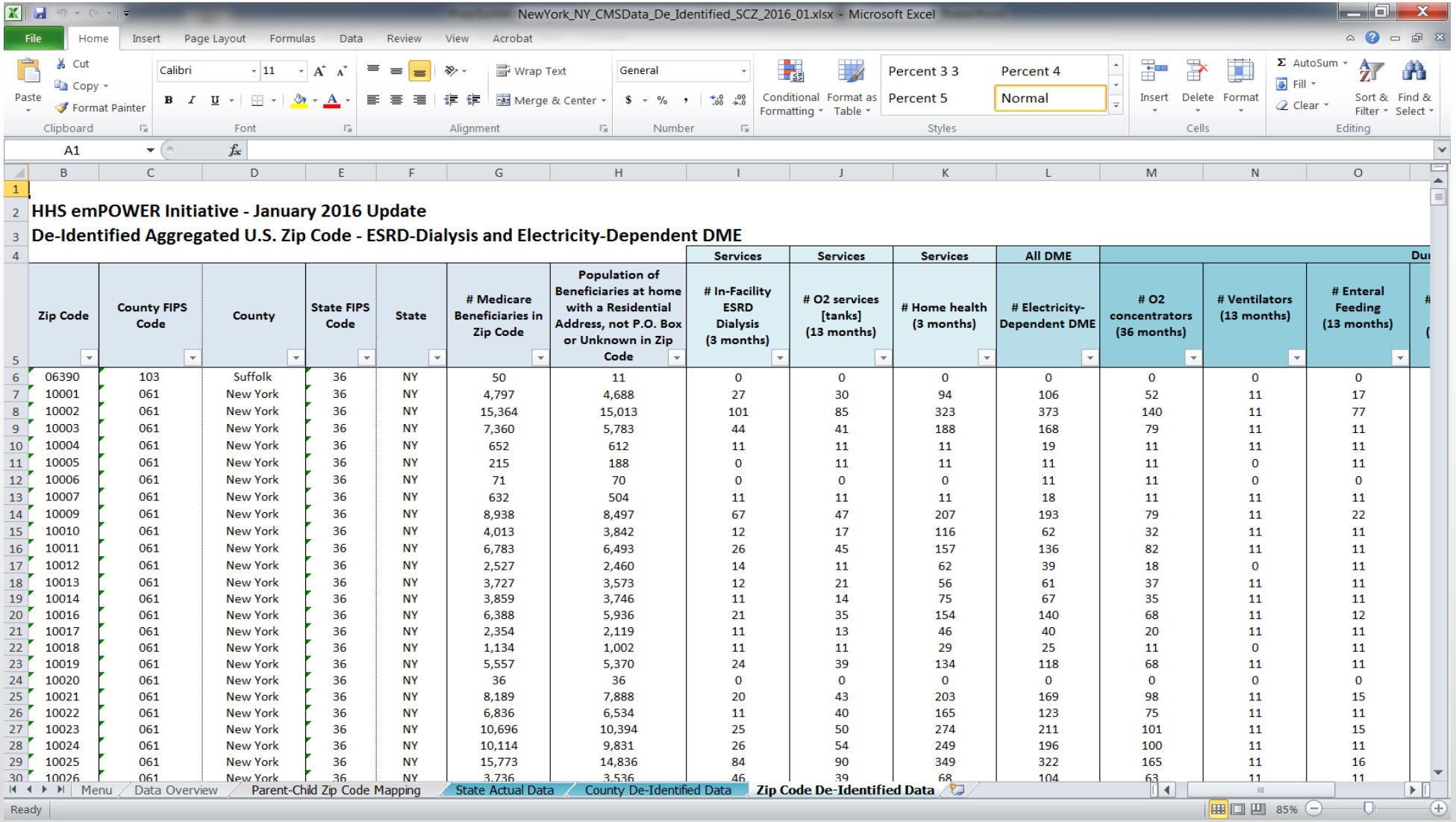
State Health Department De-identified Emergency Planning Dataset



								Services	Services	Services	All DME			Du
	Zip Code	County FIPS Code	County	State FIPS Code	State	# Medicare Beneficiaries in Zip Code	Population of Beneficiaries at home with a Residential Address, not P.O. Box or Unknown in Zip Code	# In-Facility ESRD Dialysis (3 months)	# O2 services [tanks] (13 months)	# Home health (3 months)	# Electricity-Dependent DME	# O2 concentrators (36 months)	# Ventilators (13 months)	# Enteral Feeding (13 months)
6	06390	103	Suffolk	36	NY	50	11	0	0	0	0	0	0	0
7	10001	061	New York	36	NY	4,797	4,688	27	30	94	106	52	11	17
8	10002	061	New York	36	NY	15,364	15,013	101	85	323	373	140	11	77
9	10003	061	New York	36	NY	7,360	5,783	44	41	188	168	79	11	11
10	10004	061	New York	36	NY	652	612	11	11	11	19	11	11	11
11	10005	061	New York	36	NY	215	188	0	11	11	11	11	0	11
12	10006	061	New York	36	NY	71	70	0	0	0	11	11	0	0
13	10007	061	New York	36	NY	632	504	11	11	11	18	11	11	11
14	10009	061	New York	36	NY	8,938	8,497	67	47	207	193	79	11	22
15	10010	061	New York	36	NY	4,013	3,842	12	17	116	62	32	11	11
16	10011	061	New York	36	NY	6,783	6,493	26	45	157	136	82	11	11
17	10012	061	New York	36	NY	2,527	2,460	14	11	62	39	18	0	11
18	10013	061	New York	36	NY	3,727	3,573	12	21	56	61	37	11	11
19	10014	061	New York	36	NY	3,859	3,746	11	14	75	67	35	11	11
20	10016	061	New York	36	NY	6,388	5,936	21	35	154	140	68	11	12
21	10017	061	New York	36	NY	2,354	2,119	11	13	46	40	20	11	11
22	10018	061	New York	36	NY	1,134	1,002	11	11	29	25	11	0	11
23	10019	061	New York	36	NY	5,557	5,370	24	39	134	118	68	11	11
24	10020	061	New York	36	NY	36	36	0	0	0	0	0	0	0
25	10021	061	New York	36	NY	8,189	7,888	20	43	203	169	98	11	15
26	10022	061	New York	36	NY	6,836	6,534	11	40	165	123	75	11	11
27	10023	061	New York	36	NY	10,696	10,394	25	50	274	211	101	11	15
28	10024	061	New York	36	NY	10,114	9,831	26	54	249	196	100	11	11
29	10025	061	New York	36	NY	15,773	14,836	84	90	349	322	165	11	16
30	10026	061	New York	36	NY	3,736	3,536	46	39	68	104	63	11	11

Zip Code Tab

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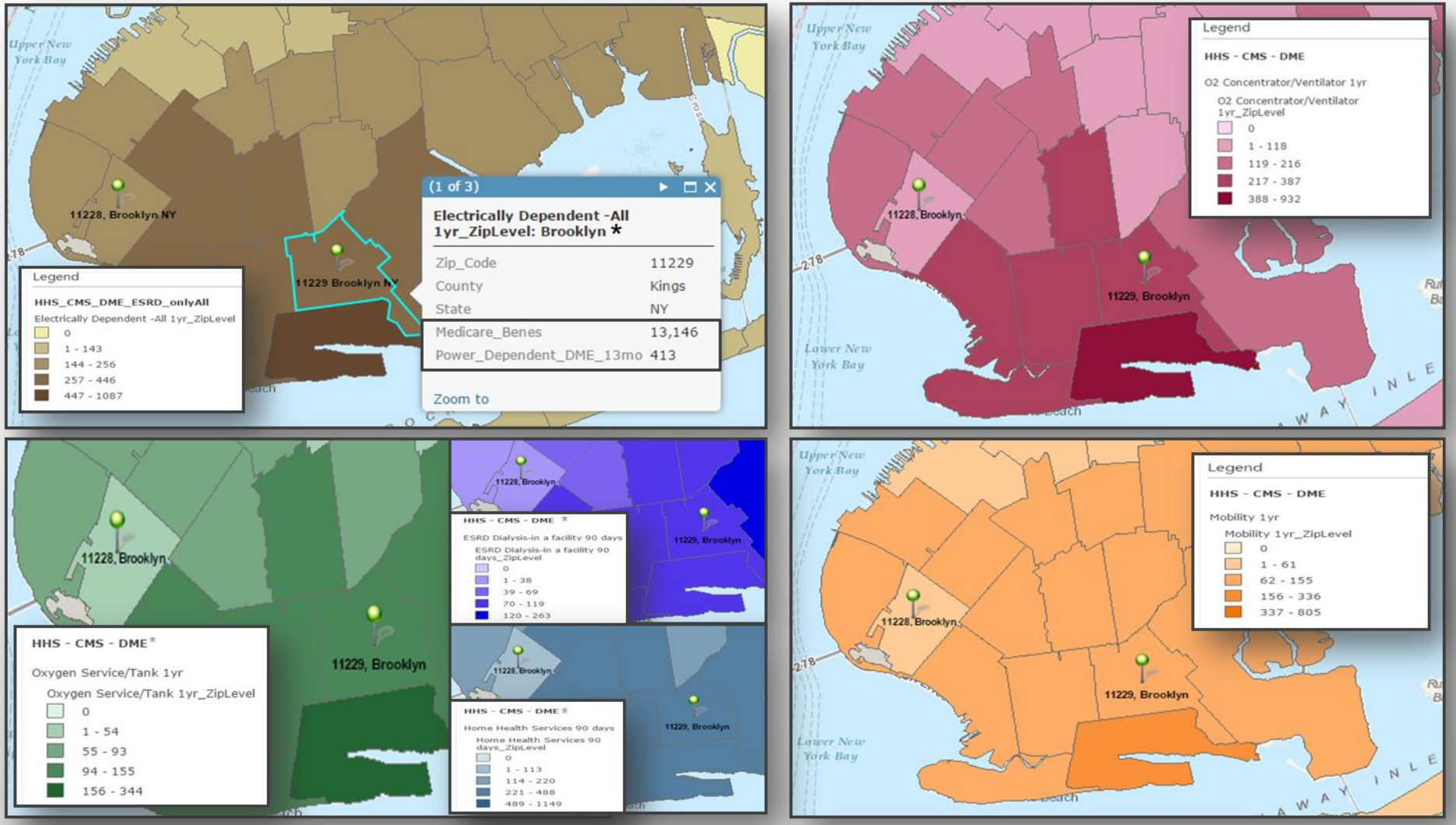
HHS EmPOWER Data At Work In GeoHealth
Informing Local Planning Scenarios & Response Decision Making



* *Adjusted Totals- Medicare beneficiaries are only counted once even if they have multiple types of durable medical equipment (DME) or healthcare service*

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HHS emPOWER Initiative
Emergency Response Outreach Individual Dataset

- **Purpose is to conduct outreach prior to, during, or after an incident, public health emergency, or disaster that may adversely impact at-risk populations**

- **Examples of individual outreach use cases:**
  - HHS approved preparedness exercises:
    - *City of New Orleans, State of Arizona, Broome County/New York State, New York City**
  - HHS approved emergencies:
    - *Flint Michigan Water Emergency, Virginia and NYC Winter Storm Jonas Emergency, City of New Orleans Boil Water Emergency, Dialysis/Ice Storm Emergency*
    - *Future Responses*

- **Public health authorities that meet HIPAA requirements can submit a request to HHS via their ASPR Regional Administrator (RA)/Emergency Coordinators (RECs)**

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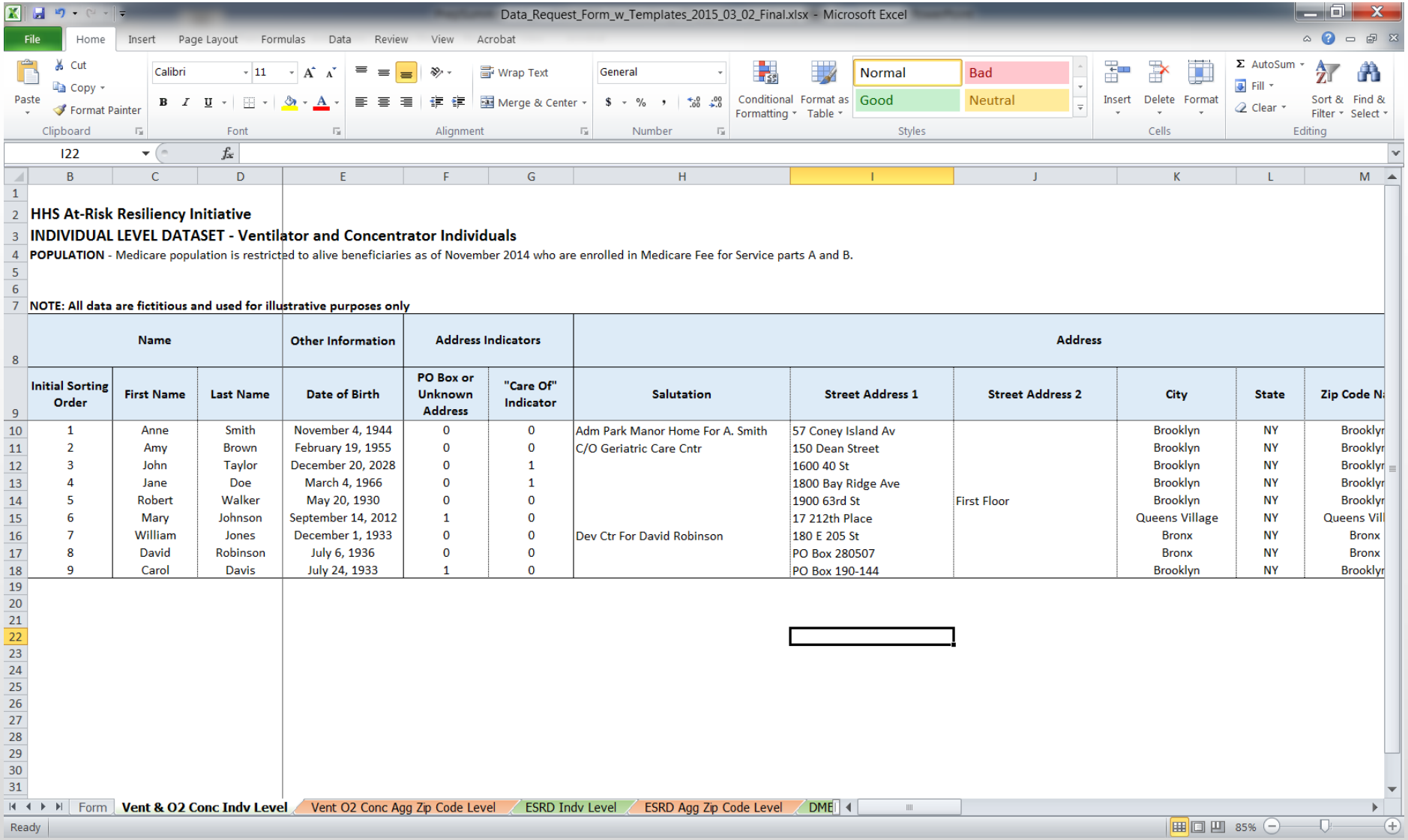
HHS emPOWER Initiative
Public Health Authority Emergency Response Outreach Individual Dataset (Sample)



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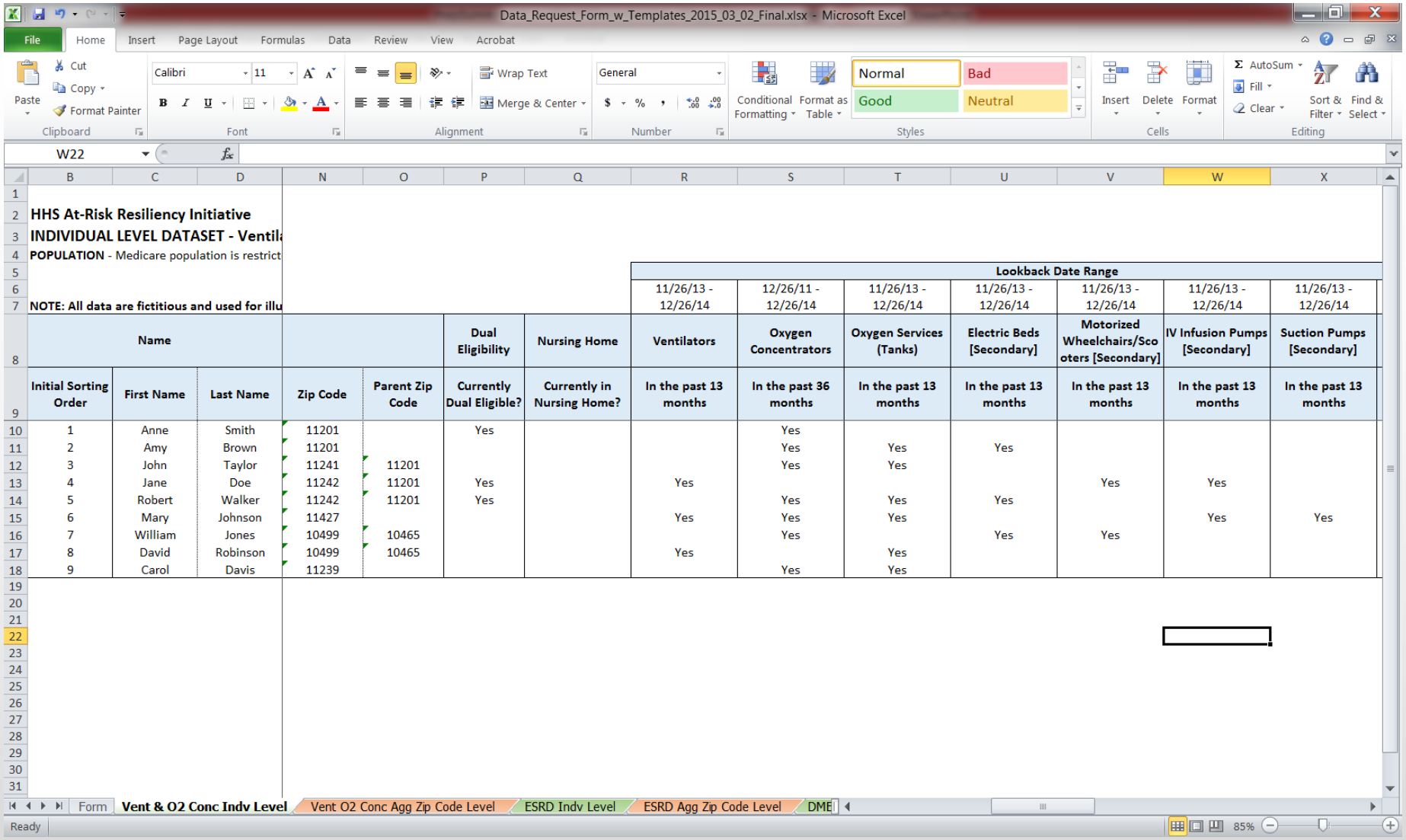
HHS emPOWER Initiative

Emergency Response Outreach Individual Dataset Sample -*Continued*



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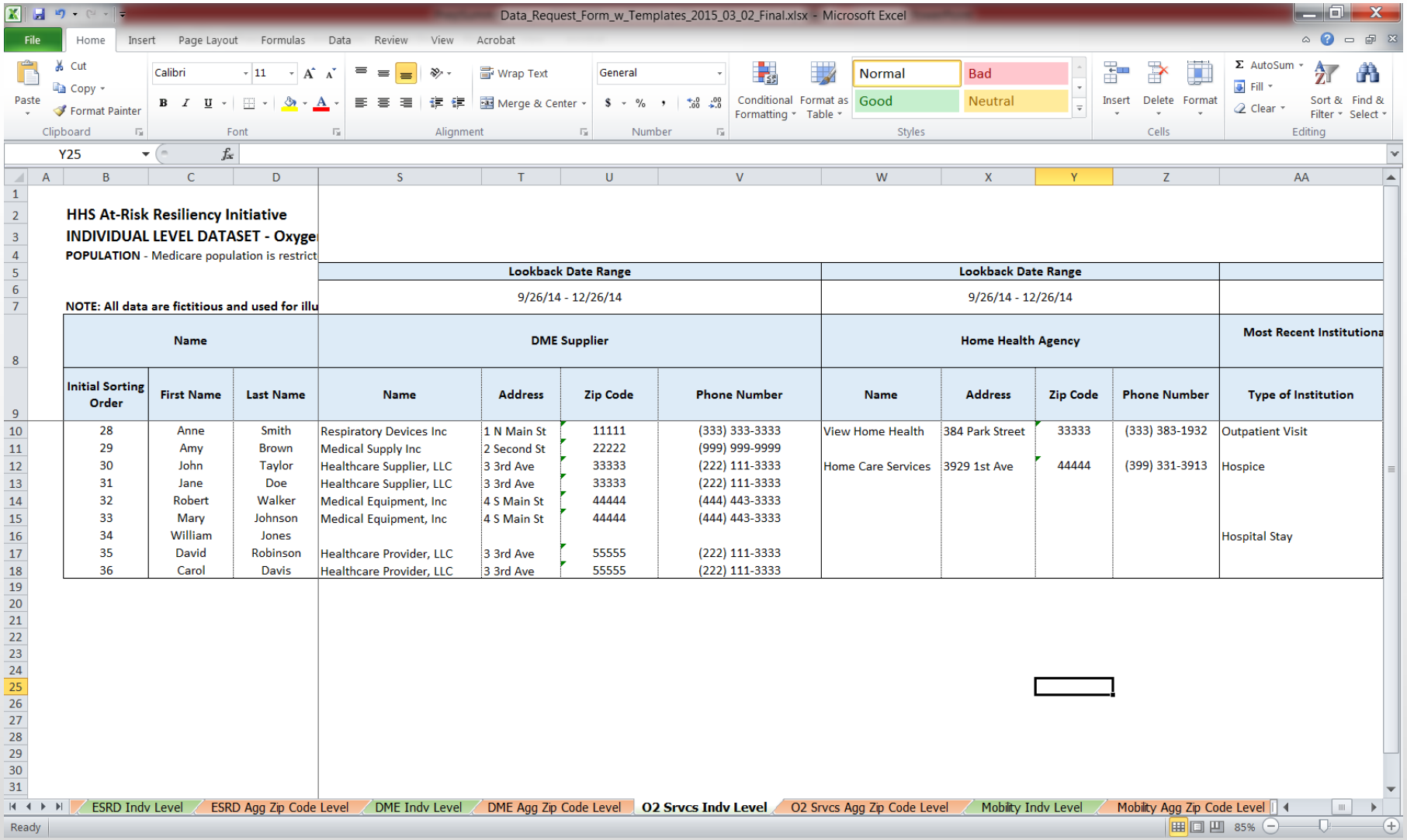
Emergency Response Outreach Individual Dataset Sample-*Continued*



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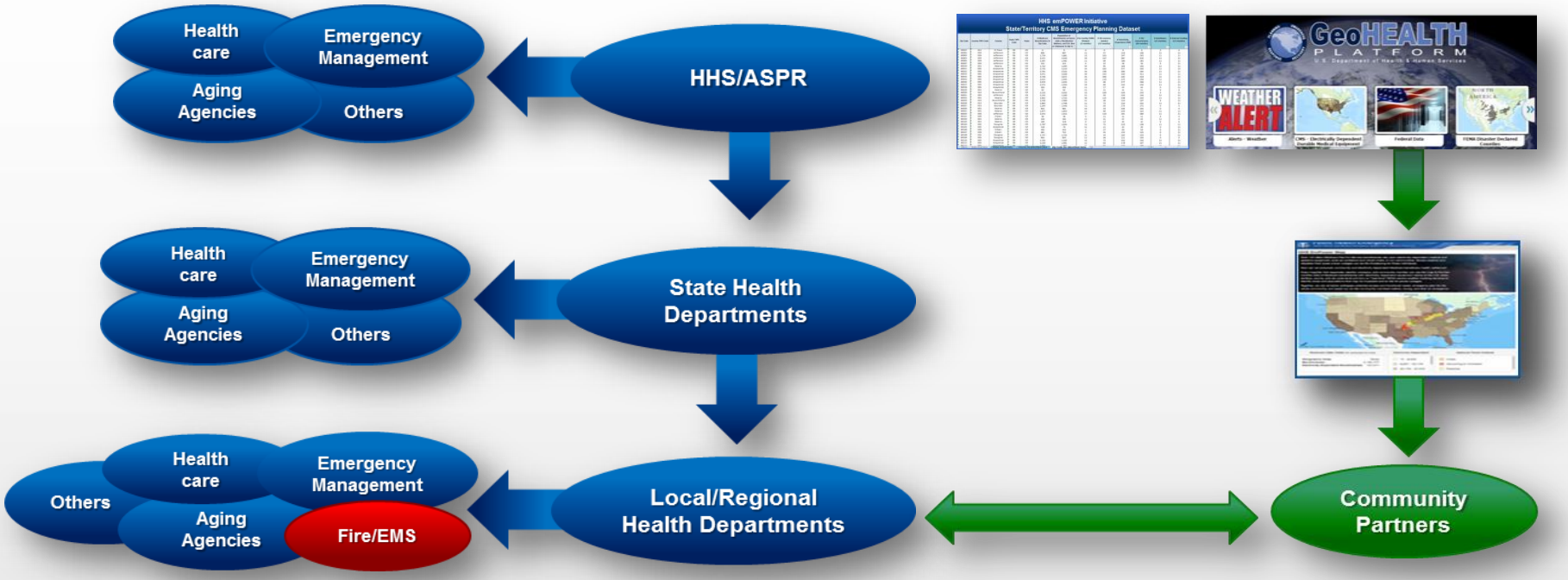
Integrating Public Health, Emergency Management, Healthcare, & Aging Systems



Pre-Event Emergency Planning (De-identified):

- Population-Based Situational Awareness
- Emergency Planning Activities & Plans
- Develop Systems, Processes & Triggers
- Identify Resources for Scenarios
- Sets Stage for Life-Saving Outreach
- Other Considerations

Emergency Response & Notification (De-identified/Individual):

- Activate Emergency Plans
  - Population Based
  - Individual Outreach
- Deploy Emergency Response Assets
- Activate Communications Network
- Other Considerations

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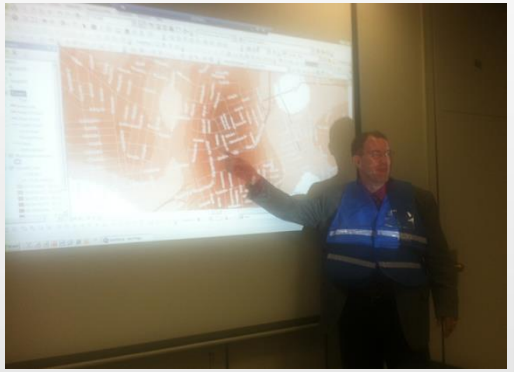
HHS emPOWER Data in Action

How can emPOWER data and tools inform and support emergency preparedness, response, recovery and resilience activities in your communities?



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Disasters Happen Locally

Major natural disasters that have impacted Broome County, New York:

- 2006 Flood
- 2011 Flood

Challenges faced prior to, during and after the disasters:

- Identifying the needs and locations of populations/ individuals with access and functional needs
- Healthcare infrastructure and continuity of healthcare
- Hospital /Emergency Medical Services (EMS) Surge
- Determining medical and other needed supplies
- Power restoration
- Evacuation needs
- Shelter needs

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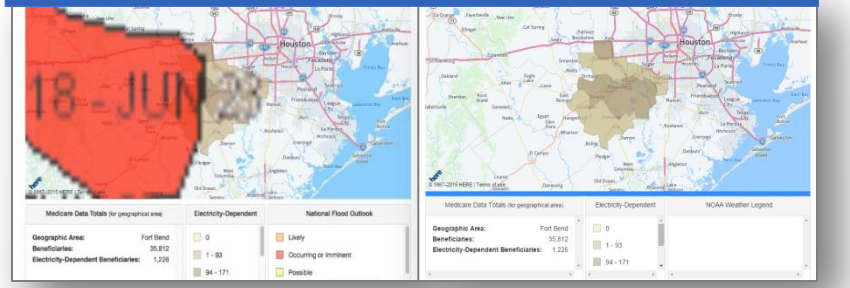
How is the HHS emPOWER Map helping Broome County?

- **HHS emPOWER Map provides a starting point for estimating the electrically-dependent population within our community**

- **Informing planning activities to better support:**
  - Community awareness and support
  - Evacuation
  - Medical and other supplies
  - Hospital/ EMS system surge
  - Shelter locations
  - Populations affected

- **Informing communication activities:**
  - Targeted public communications
  - Foster ‘s community discussion, engagement, and understanding

HHS emPOWER Map



HHS emPOWER Map- Fort Bend, Texas
Electricity-Dependent & NOAA Flood Outlook, 2015

Broome County, NY 2011

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How is the HHS emPOWER de-identified data helping Broome County?

- **HHS emPOWER de-identified data can:**
  - Enhance our population-based situational awareness of healthcare and electricity-dependent populations
  - Inform emergency planning activities to identify needs, better develop processes & triggers, identify community resources
  - Enhance understanding and integration of public health, emergency management, healthcare and aging service responses
    - Better anticipate where we may need to anticipate evacuation needs and life-saving outreach to at-risk populations.
    - Anticipate potential surge on our healthcare and EMS systems
    - Better identify locations and needs for shelters, medical supplies, and other resources

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How is the HHS emPOWER individual level data helping Broome County?

- **Individual data was exercised in April 2014**
- **Future emergency response uses, include but are not limited to:**
  - Emergency warnings
  - Field response outreach
  - Evacuation

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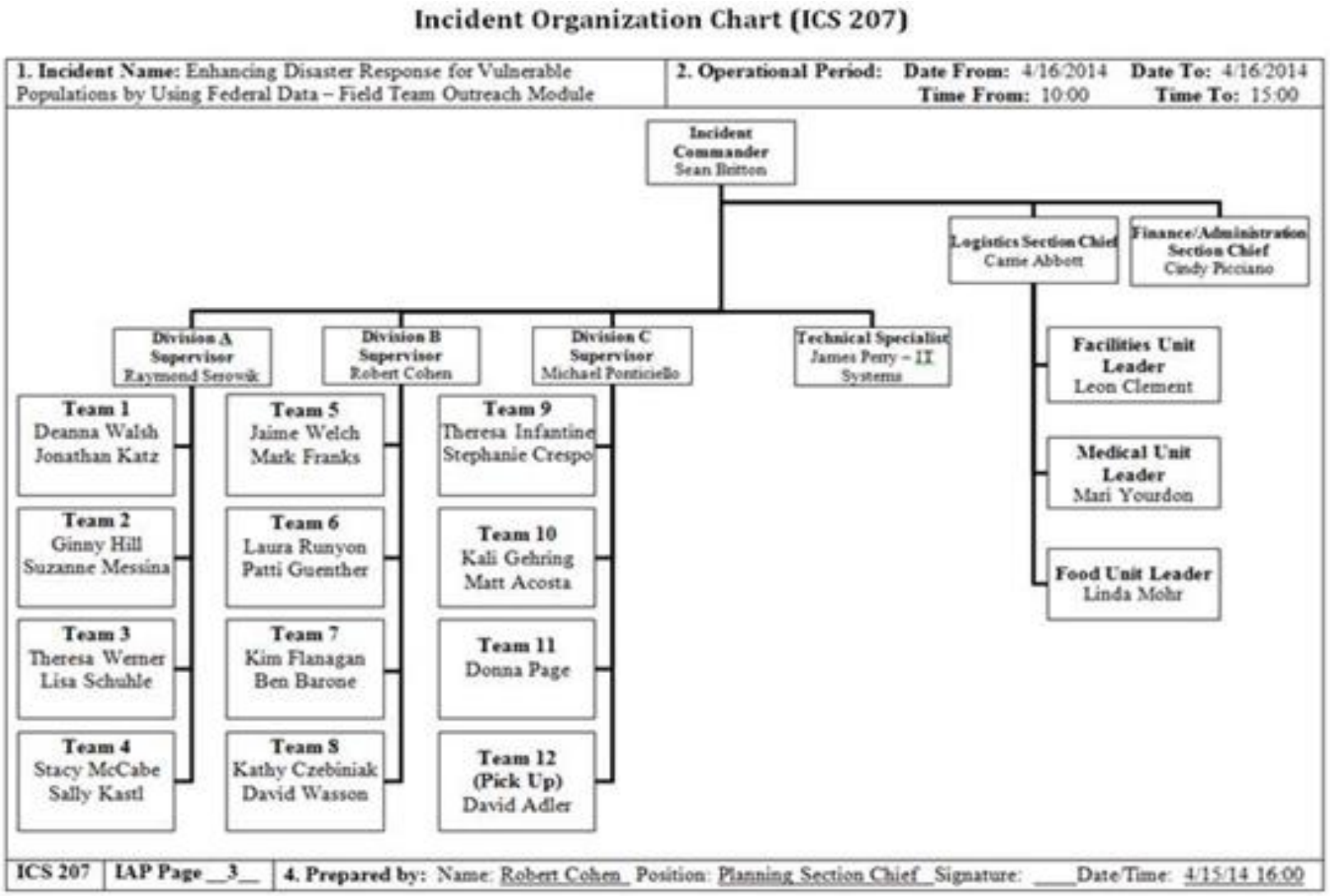
Overview of our Incident Command Structure for Broome County At-Risk Exercise



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Questions?

Contact Information

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HHS GeoHealth Platform: www.geohealth.hhs.gov
HHS Technical Resources Assistance Center and Information Exchange (TRACIE) https://asprtracie.hhs.gov/
HHS Response and Recovery Resources Compendium: http://www.phe.gov/emergency/hhscapabilities/Pages/default.aspx

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