

### **Reaching People with Disabilities: Wireless Emergency Alerting and Accessibility**

Georgia Emergency Preparedness Coalition for Individuals with **Disabilities and Older Adults** June 30, 2015 DeeDee Bennett & Salimah LaForce





Georgia Center for Advanced Tech Communications Policy

D. BENNETT







## **Research Projects**



Why?



Emergency information is critical

- **FCC** FCC requires disability access to warn the public
- □ 91% of American adults own a cell phone (Pew Research)
- 95% of people with disabilities use wireless products (our survey)
- □ Many U.S. federal and state websites are inaccessible
- Information is posted online on websites or social media platforms





## Accessible WEA Messages

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### Wireless Emergency Alerts (WEA)





- Sent to your cell phone
- Appear as child abduction, weather emergencies, or presidential alerts
- No need to subscribe
- The messages are free
- 90 character limit
- Does not include internet links



### Wireless Emergency Alerts (WEA), Part 2

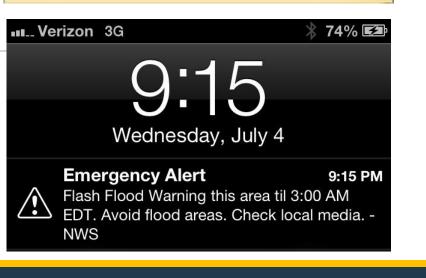
#### **AMBER Alert**

Acworth, GA AMBER Alert: LIC/ (GA) White Range Rover



#### Severe Alert

Flash Flood Warning this area til 3:15 AM EDT. Avoid flood areas. Check local media. -NWS







## 2014 Survey

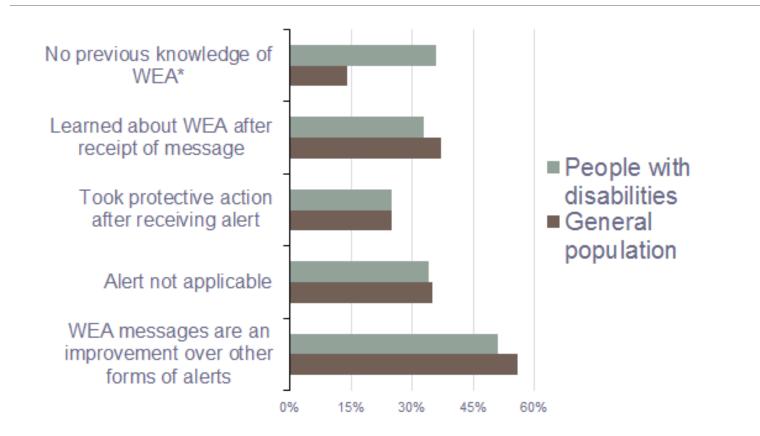
- The purpose of the survey is to assess awareness, use, and subsequent protective action after receipt of a WEA message.
- Over 1800 respondents
- 18% persons with disability
  - 24% caregiver for person with disability

Participant Profile		
Total	1,830	
With Disability	321	
Caregivers	202	
Age Range	18-92	
Average Age	50	





## WEA Survey Highlights



#### \*p-value less than .05





### Additional Features (all respondents)

Feature	Ν	Percent
Icons, graphics, and maps	1150	73%
Internet Link	1056	67%
Live Video/Audio Streaming	651	41%
ASL	178	11%
Other	151	9%



### Top 4 sources for alerts

#### **GENERAL POPULATION**

#### **PEOPLE WITH DISABILITIES**

- 1. Email 30%
- 2. Subscription-based Emergency Text – 26%
- 3. Television 25%
- 4. NOAA Weather Radio 24%

24% did not receive alert from another source

- 1. Email 14%
- 2. Television 13%
- **3.** Social Media 11%
- 4. Subscription-based Emergency Alert – 10%

9% did not receive an alert from another source





## 2015 Survey

- The purpose of the survey is to assess awareness, use, and subsequent protective action after receipt of a WEA message.
- 1334 respondents
- 55% persons with disability
  - 18% caregiver for person with disability

Participant Profile		
Total	1334	
With Disability	55%	
Caregivers	16%	
Age Range	19-94	
Average Age	51	



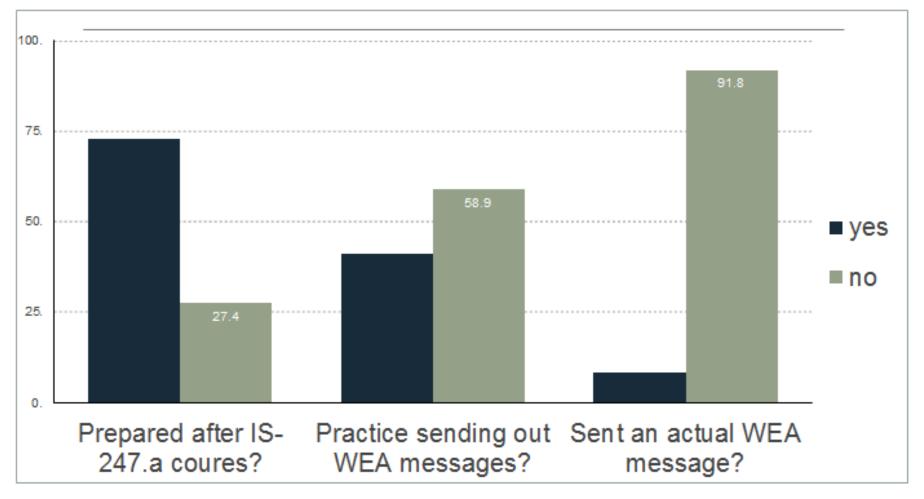
### Alert Authorities Use of WEA

- 139 respondents of 425 alert authorities.
- 68% county-level representation.
- Multiple Regions
  - Rural, suburban, urban or coastal.
- 91% public information non-accessible.
- 7% send messages in another language.

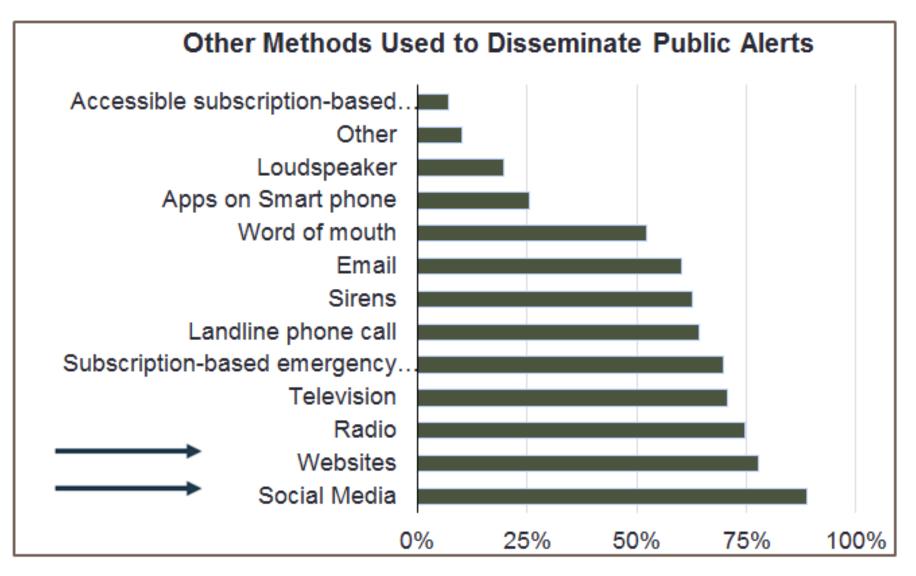




### Alert Authorities Use of WEA

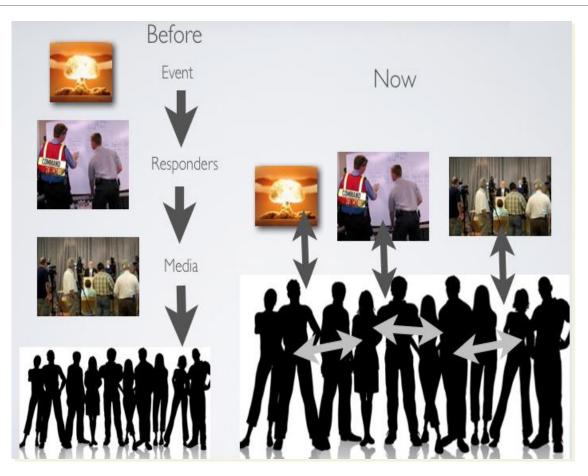








### The Paradigm has Changed





# WEA Findings (public)

- Barriers to access were similar among people with and without disabilities
- WEA messages are an improvement over other means of emergency alerts
- Prior to taking our survey not everyone was aware of WEA
- Additional features are needed
- Social media is increasing in importance among people with disabilities
- No significant difference between the groups regarding protective action



### WEA Findings (Alert Authorities)

- Majority of authorities are not using IPAWS for WEA
  - Require additional training
  - Would like the ability to test the system
- Additional features are required
- Significant rise in the use of Websites and Social Media for alerting
- Often not considering the needs of people with disabilities for alerting



## For More Information

### Handouts online (<u>www.cacp.gatech.edu</u>)

- 12 Considerations for Accessible Emergency Communications
- Common Misconceptions Regarding People Who are Deaf and Rely on ASL
- Accessibility Guidelines for Print and Electronic
  Documents



Contact Us: www.cacp.gatech.edu www.wirelessrerc.gatech.edu

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