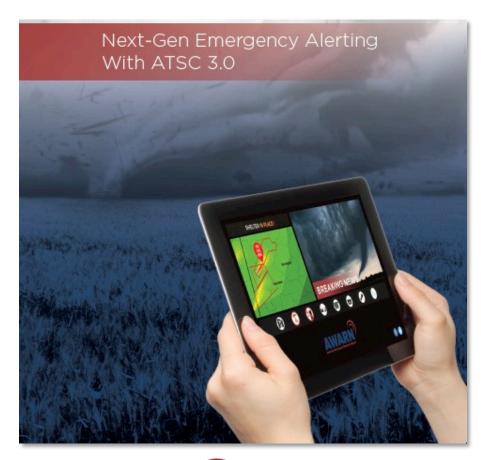
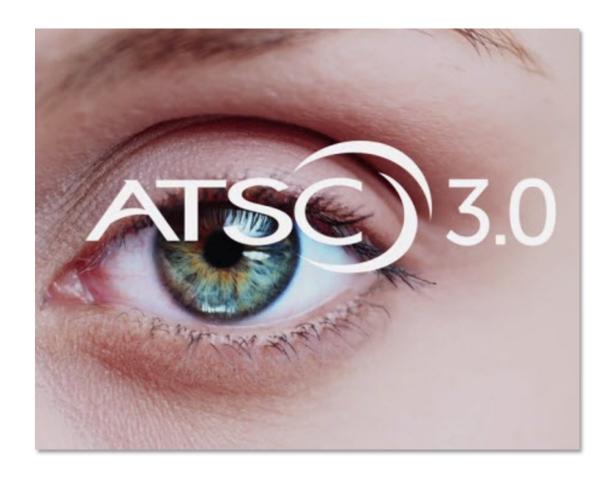


Fiona James – Deputy Director AWARN Alliance
WBA Broadcasters Clinic
October 18, 2018

## Advanced Alerting with Next Gen TV (ATSC 3.0)







#### AWARN Alliance, Public, Private, International

#### **Broadcasters (Commercial)**

Capitol Broadcasting Company
Pearl TV (8 of the largest TV groups)
Sinclair Broadcast Group
Spectrum Co.

#### **Broadcasters** (Public)

Kentucky Educational Television
KPBS/Cal State University-San Diego
UNC-TV/University of North Carolina
WKAR/Michigan State University
WNET/New York

#### **Service Providers**

Convergence Services, Inc. Lerman Senter PLLC Wiley Rein LLC

#### **National Organizations**

Consumer Technology Association
Interactive Television Alliance
National Association of Broadcasters
NTT Data Institute of Management
Consulting, Inc.

#### **Technology Providers**

Aircode
LG Electronics/Zenith
Lokita Solutions/DigiCap
NAB PILOT
ONE Media
OpenZNet
Monroe Electronics/DAS
The Weather Co/IBM
Trilithic Inc.
Triveni Digital

## AWARN Advisory Committee











Science and Technology

## AWARN Alliance – Voluntary Coalition

- No mandates
- New public service
- All-IP interoperability
- Not "fixing" EAS
- Public-private





## AWARN Alliance Goals

What Not How



### AWARN – Near Term Goals

- Support UX Style Guide Development
  - Work with ATSC, AEA I-Team, CTA, Pearl, PILOT
  - Deliver UX findings to members this November
- Engage Emergency Management Community
  - Workshops and Focus Groups
  - Outreach to national organizations
- Evangelize
  - o FCC, FEMA, other
  - Internationally
  - Broadcasting industry





#### Just In...

Cotton swipes back at Graham: At least Steve King can 'win an election in lowa'

SENATE - 13 M 53 S A GO

State Dept's most experienced sanctions negotiator quits

ADMINISTRATION - 30 M 12S AGO

Deutsche Bank flags 'suspicious transactions' tied to Kushners: report

NEWS-51M 58S AGO

Trump lawyer threatened to sue 'In

# Hawaii illustrates that America's alert system is fragile, fragment and outdated

BY JOHN LAWSON, OPINION CONTRIBUTOR -- 0 1/19/18 0 9:30 AM EST THE VIEWS EXPRESSED BY CONTRIBUTORS ARE THEIR OWN AND NOT THE VIEW OF THE HILL

49 SHARES



G+ PLUSON

© Getty Images



# 'Presidential Alert' Goes to Millions of Cellphones Across the U.S.



Cellphones across the United States — and some other wireless devices, like the Apple Watch — received the debut test message from the Wireless Emergency Alert System on Wednesday. There is no way to opt out. FEMA



## Resilience: Communities and Individuals

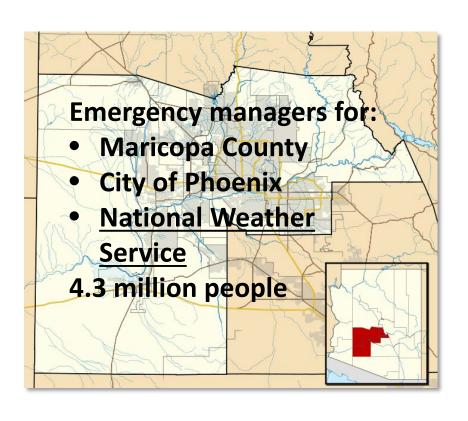
- Technological Integration
  - o Phone, text, email
  - o TV radio, siren, alert alternatives
  - o Social media
- Social integration
  - o Family, friends
  - Neighbors
  - o Co-workers
- Mental and physical adaptive capacity

Dr. Jessica Jensen, NDSU 2018



## UX Workshops and Focus Groups



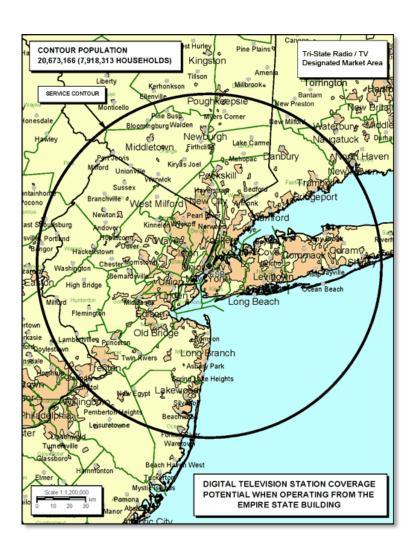




# Third Focus Group – New York City OEM

- EM's from Tri-State Area
- AMBER alert coordinators
- Big City Emergency Managers
   (15 largest) meeting week before invited
- Select NYC O&O and other news stations invited





## Focus Group Team

- John Lawson, Executive Director, AWARN Alliance
- Fiona James, Deputy Director, AWARN Alliance
- Ron Prater, Executive Director, Big City Emergency Managers
- Jeannette Sutton Ph.D., Associate Professor University of Kentucky, Risk and Disaster Communication
- Azita Manson, Principal, OpenZNet
- Dewey Reid, Consultant Executive Creative Director,
   CNN















## ROI for Broadcasters and CE Industry

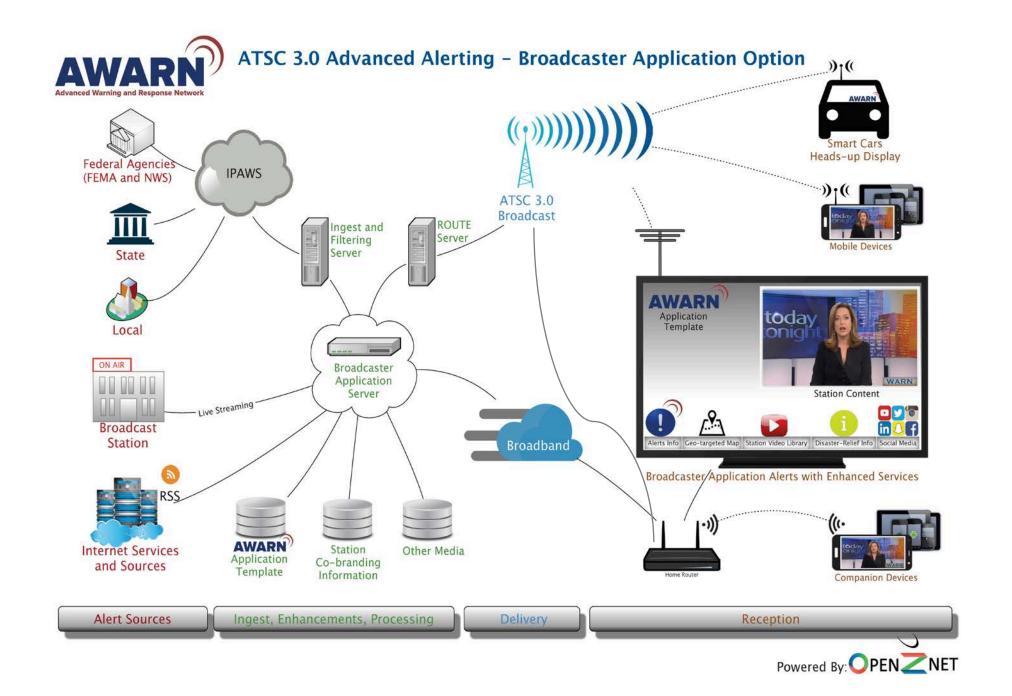
- Keeps eyeballs on large screen in emergencies
- Fulfills promises to FCC and pre-empts regulation
- Renews stations' "first-informer" role for the 21st Century
- Encourages consumer adoption of smart TV's
- Creates demand for getting broadcaster signals on mobile devices
- Supports hybrid alerting with OTT and mobile services



# Advanced Warning and Response Network (AWARN): Major Upgrade to U.S. Alerting

- Geo-targeting reduces over-alerting
- Rich media photos, video, maps, evacuation routes
- Multilingual and accessible
- Deep indoor and mobile reception
- Device wake-up capability
- All IP integration with with other networks and social media
- Scalable to an unlimited number of devices
- Resilient operates when cellular fails and grid is down
- Frees-up 911 and other vital 2-way communications





## Northern California Wildfires, October 2017



# **Emergency alerts draw complaints in fast-moving wildfires**

By Paul Elias and Michael R. Blood | AP October 12 at 9:37 PM

SANTA ROSA, Calif. — The story is repeated again and again: The dead of night, no warning, then panic after realizing the smoke and flames were approaching...

Washington Post



# Gatlinburg Wildfires, Nov-Dec 2016



"If you tell people to evacuate in 90 characters without giving them instructions, all you're going to do is make the situation worse."





## Wireless Infrastructure Vulnerability



"Raging California wildfires burned 80 cell towers, hampering evacuation alerts"

- Mashable, October 17, 2017



## Sometimes People Cannot Even Call

#### Percent Cell Sites Out-of-Service By County

9/11/2017 11:33:38 AM



The day after Hurricane Irma hit Southwestern Florida, only one full power station (out of 96) was off-the air in Florida, none in the Miami-Dade DMA.

- Source: FCC Hurricane Irma Communications Status Report for Sept. 11



## **Emergency alerts could soon interrupt streaming services like Netflix, Spotify**

Bill would require online streaming services to carry broadcast emergency alerts

By: Nikki Schenfeld

Posted: Jul 19, 2018 05:56 PM HST Updated: Jul 19, 2018 06:15 PM HST

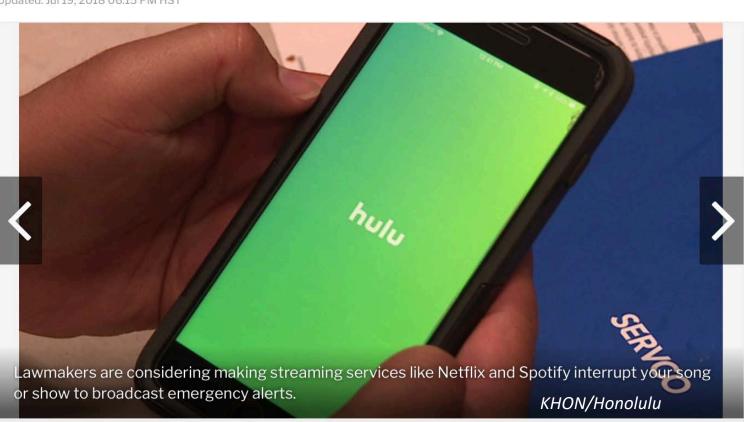








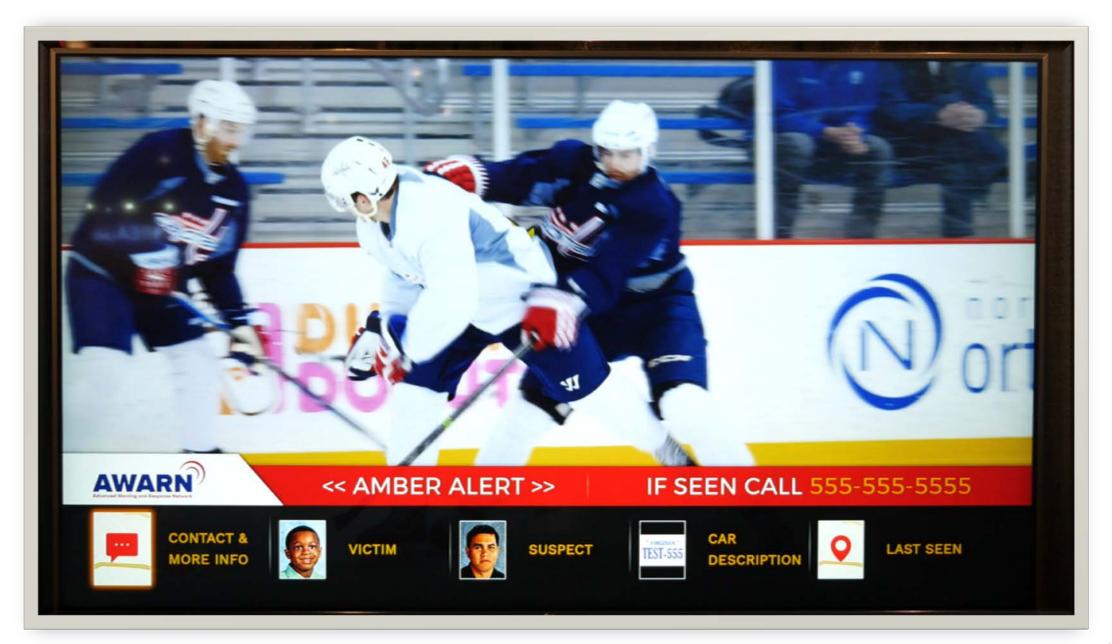




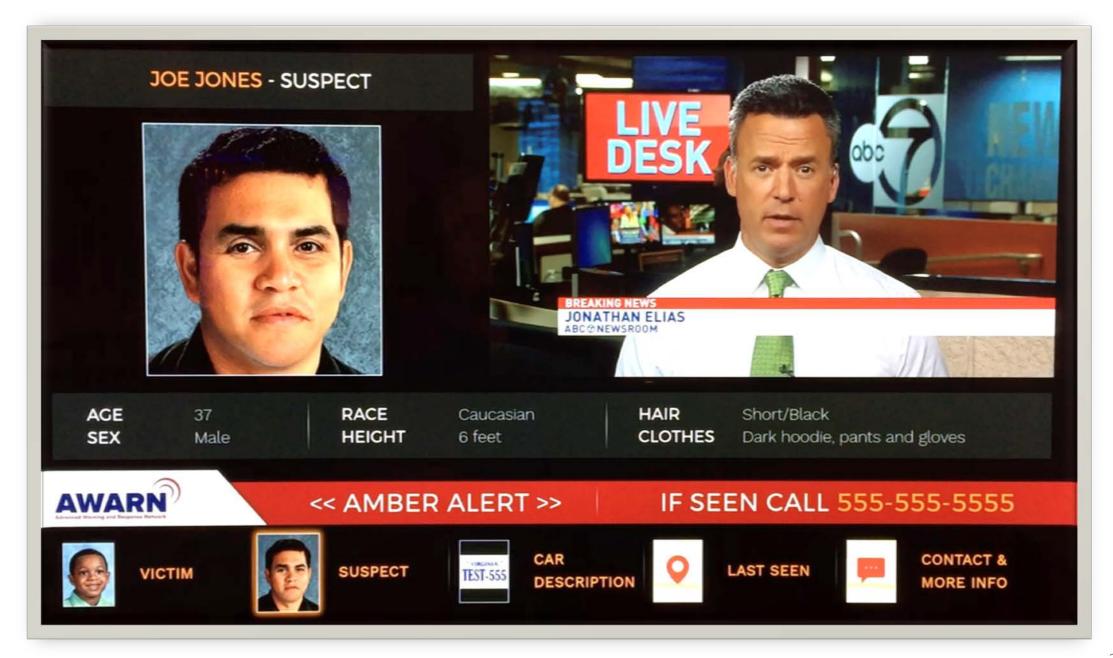


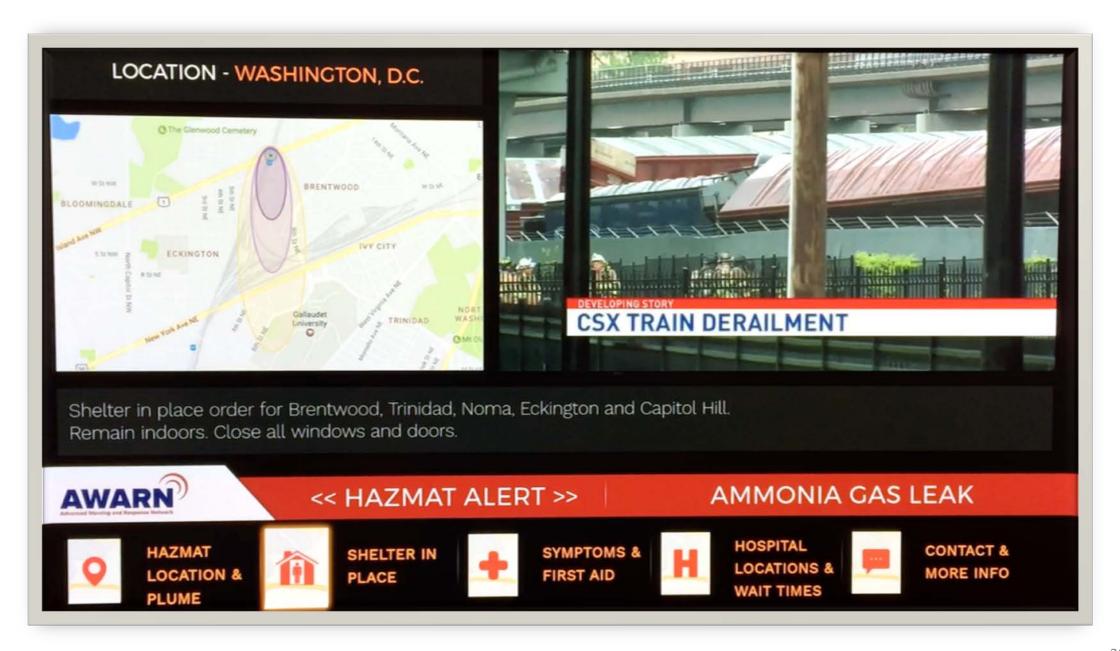


**Emergency Alert Details** A CIVIL AUTHORITY HAS ISSUED A CHILD ABDUCTION EMERGENCY FOR THE FOLLOWING **COUNTIES/AREAS:** New Jersey; AT 10:46 PM ON OCT 14, 2014 EFFECTIVE UNTIL 11:46 PM. Page 1 of 2









## UX Focus Groups - Scope

ATSC 3.0-based broadcast receivers







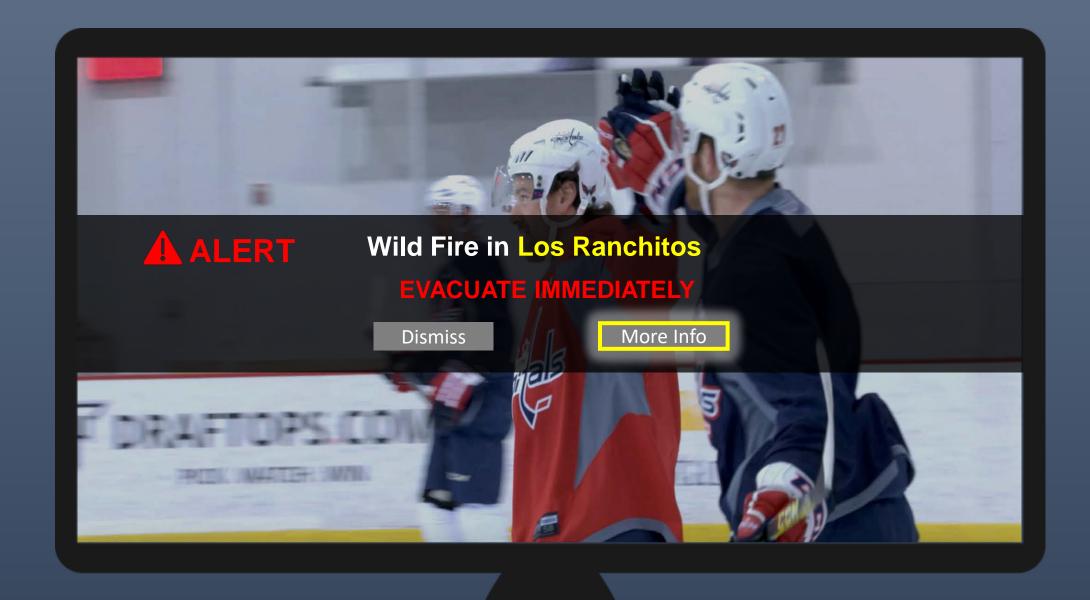


## Option 1









#### WILD FIRE in Los Ranchitos

**Evacuate Immediately** 

**Avoid Road Closures Temecula Parkway** 

Seek Shelter @ Temecula Valley High School



#### WILD FIRE in Los Ranchitos



Shelter @ Temecula Valley High School 31555 Rancho Vista Rd, Temecula, CA

**Avoid Road Closures Temecula Parkway** 





#### WILD FIRE in Los Ranchitos

**Evacuate Immediately** 

**Avoid Road Closures Temecula Parkway** 

Seek Shelter @ Temecula Valley High School



#### WILD FIRE in Los Ranchitos



#### **Evacuation Route**

**Avoid Road Closures Temecula Parkway** 







#### WILD FIRE in Los Ranchitos

**Evacuate Immediately** 

**Avoid Road Closures Temecula Parkway** 

Seek Shelter @ Temecula Valley High School





# Wireframes



### **ALERT Description < locations>**

#### **IMMEDIATE ACTION**

|  | Instruction/Info 1 |             |  |
|--|--------------------|-------------|--|
|  | Instruction/Info 2 |             |  |
|  | Instruction/Info 3 | Video/Map   |  |
|  | Instruction/Info 4 | Video/iviap |  |
|  | Instruction/Info 5 |             |  |
|  | Instruction/Info 6 |             |  |

...scrolling information...

## **ALERT Description < locations>**

**IMMEDIATE ACTION** 

Details for highlighted instruction

Video/Map

Legend 1

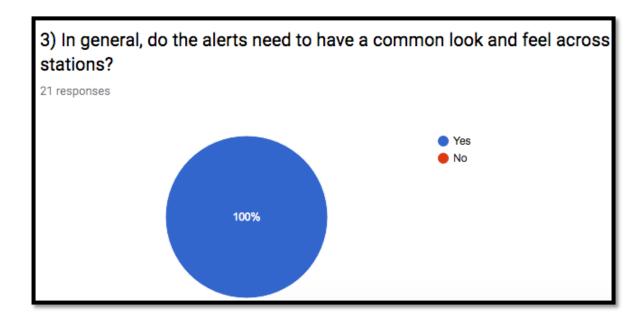
Legend 2

Legend 3

...scrolling information...

# "Macro" findings (preliminary)

- Imminent Threat Alerts only most severe and urgent
- Geo-targeting essential to reduce over alerting
- Optional station co-branding and PIP
- Need for "common look and feel" for alerts
  - Across stations, devices, and regions





## Consistency

"First, the public must know what emergency alerts are—what they sound or look like and what they signify."

- FCC Commissioner Brendan Carr, July 12, 2018



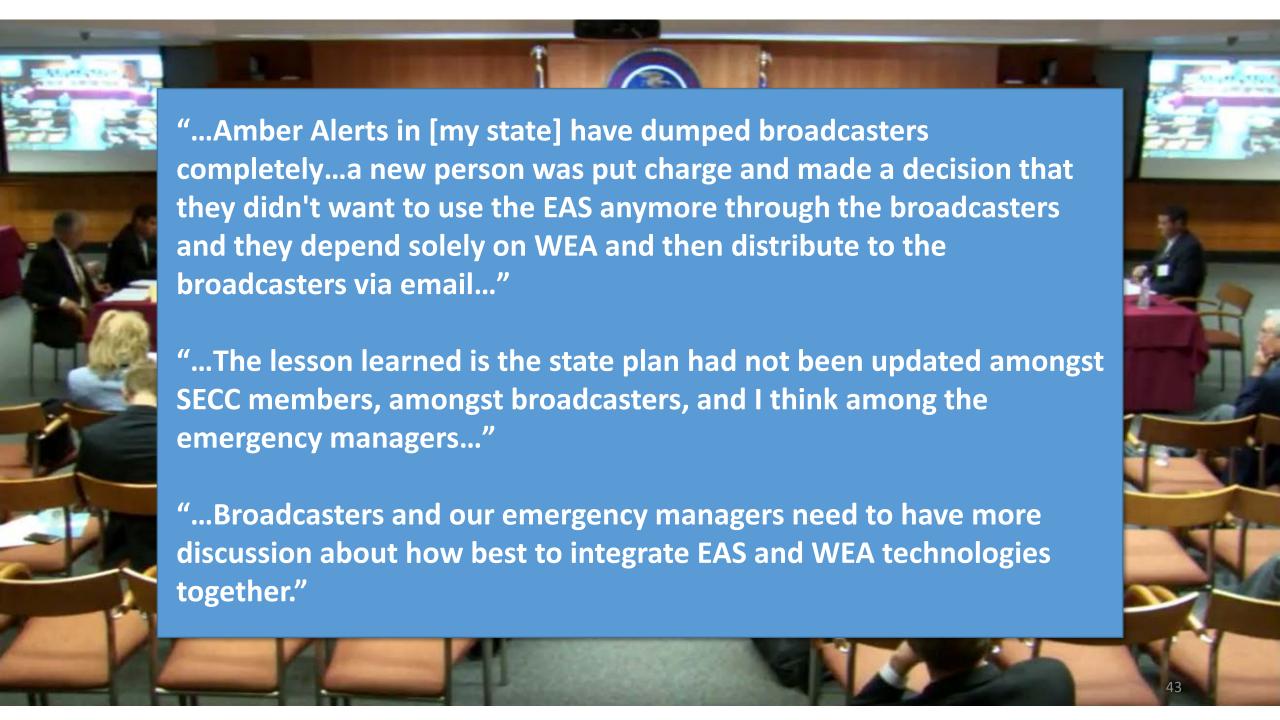
Amendment of Part 11 of the Commission's Rules Regarding the Emergency Alert System, PS Docket No. 15-94; Wireless Emergency Alerts, PS Docket No. 15-91



## FCC Emergency Alerting Roundtable, May 2018







## Continued/Renewed SECC Engagement

- Current negotiations/agreements EAS "auto-forward" event codes
- Future AEA template agreements



## Proposed Direction for 2019

- Partner for usability testing with consumers
- Deliver style guide/best practices to Alliance members
- Research interfaces between alert originator and ATSC 3.0 stations
  - Current and cloud-based
- Facilitate conversations between emergency managers and stations
- Continue evangelization with FCC, broadcasters, and internationally



## The "Ask"



To Join the AWARN Alliance!

State Broadcaster Association Membership Dues Rate 2019 = \$2,500



### Contact Us

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Please join our networks on LinkedIn.





Fiona James – Deputy Director AWARN Alliance
WBA Broadcasters Clinic
October 18, 2018