The end vision of IPAWS is to deliver coordinated messages over more channels to more people, anywhere, anytime.
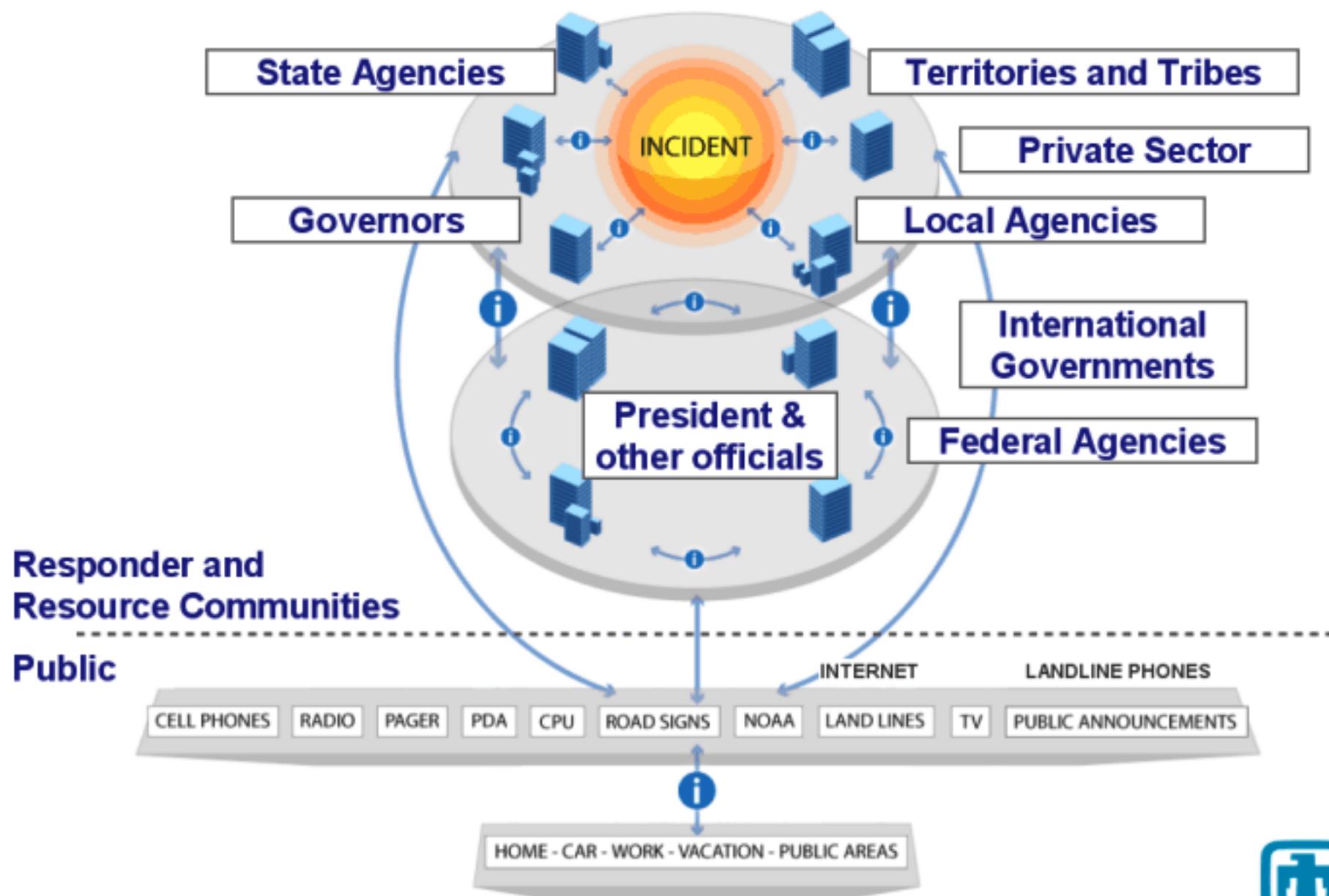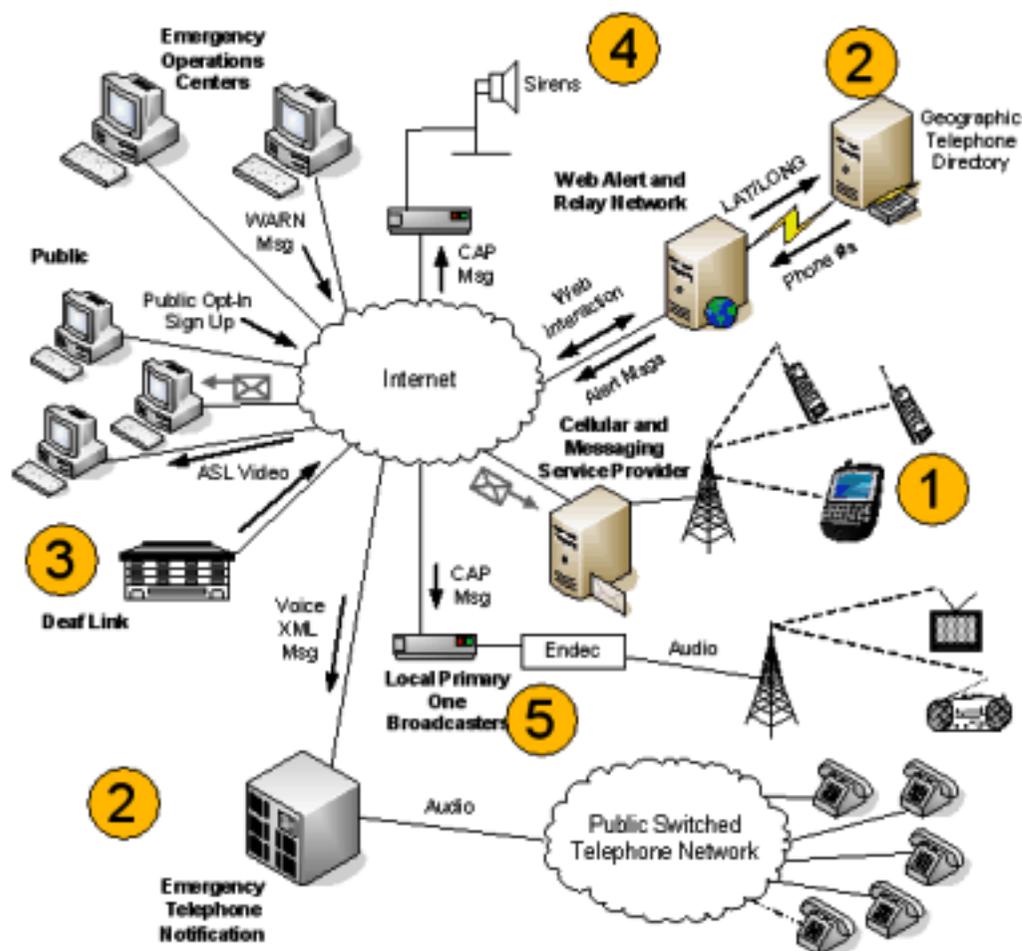

State Agencies

Territories and Tribes

INCIDENT

Private Sector

Governors

Local Agencies

International Governments

President & other officials

Federal Agencies

Responder and Resource Communities

Public

INTERNET

LANDLINE PHONES

| CELL PHONES | RADIO | PAGER | PDA | CPU | ROAD SIGNS | NOAA | LAND LINES | TV | PUBLIC ANNOUNCEMENTS |

HOME - CAR - WORK - VACATION - PUBLIC AREAS

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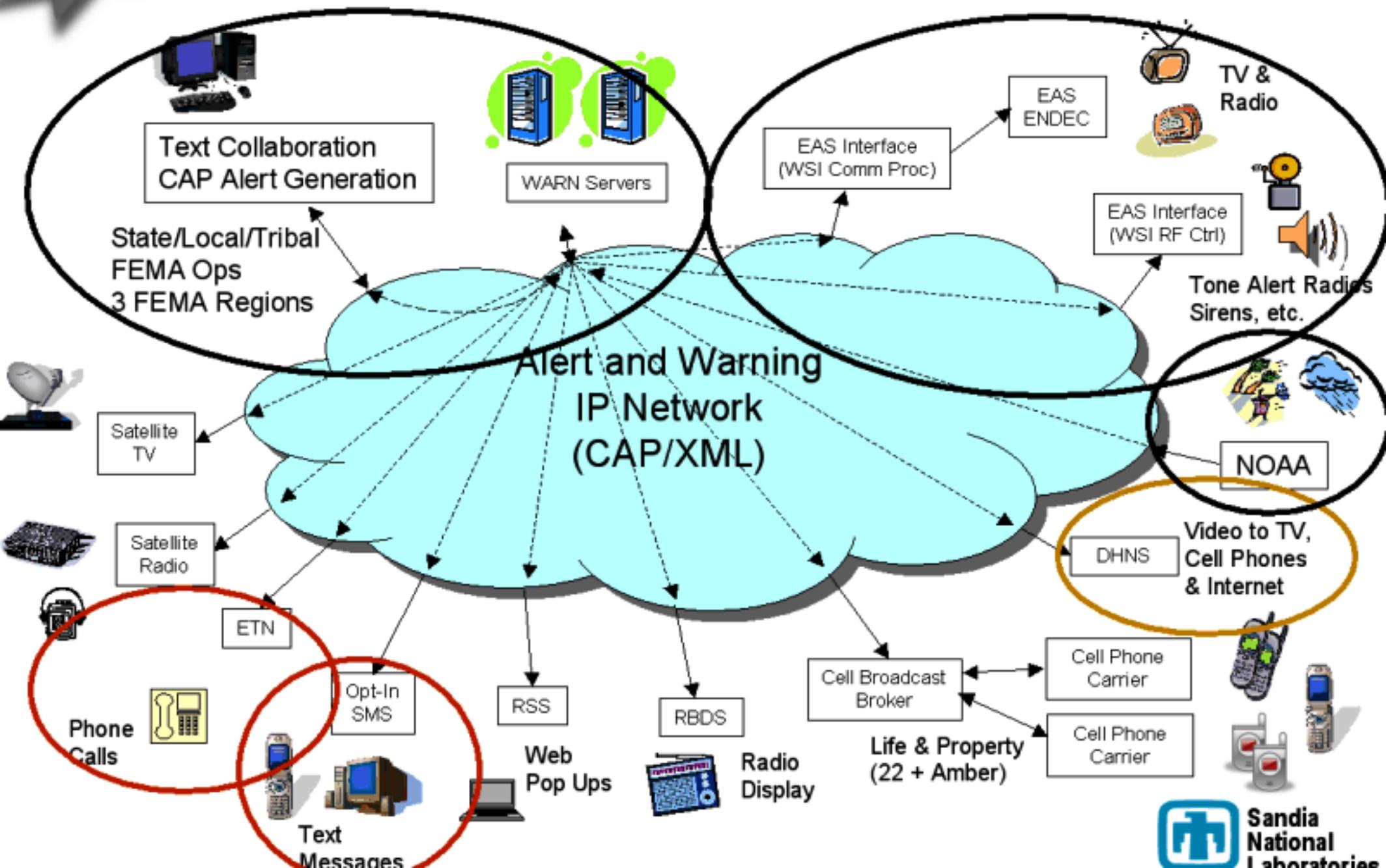# Initial pilot project focused on three hurricane states

Capabilities …

1. Web Alert and Relay Network (WARN) Opt-in provides the ability for the public to sign up to receive alert and warning messages.

2. Emergency Telephone Notification (ETN) provides automated calling of all residents in a selected geographic area.

3. Deaf and Hard of Hearing Notification System (DHNS) provides emergency information to the hearing impaired community using American Sign Language videos using the Internet and personal communication devices.

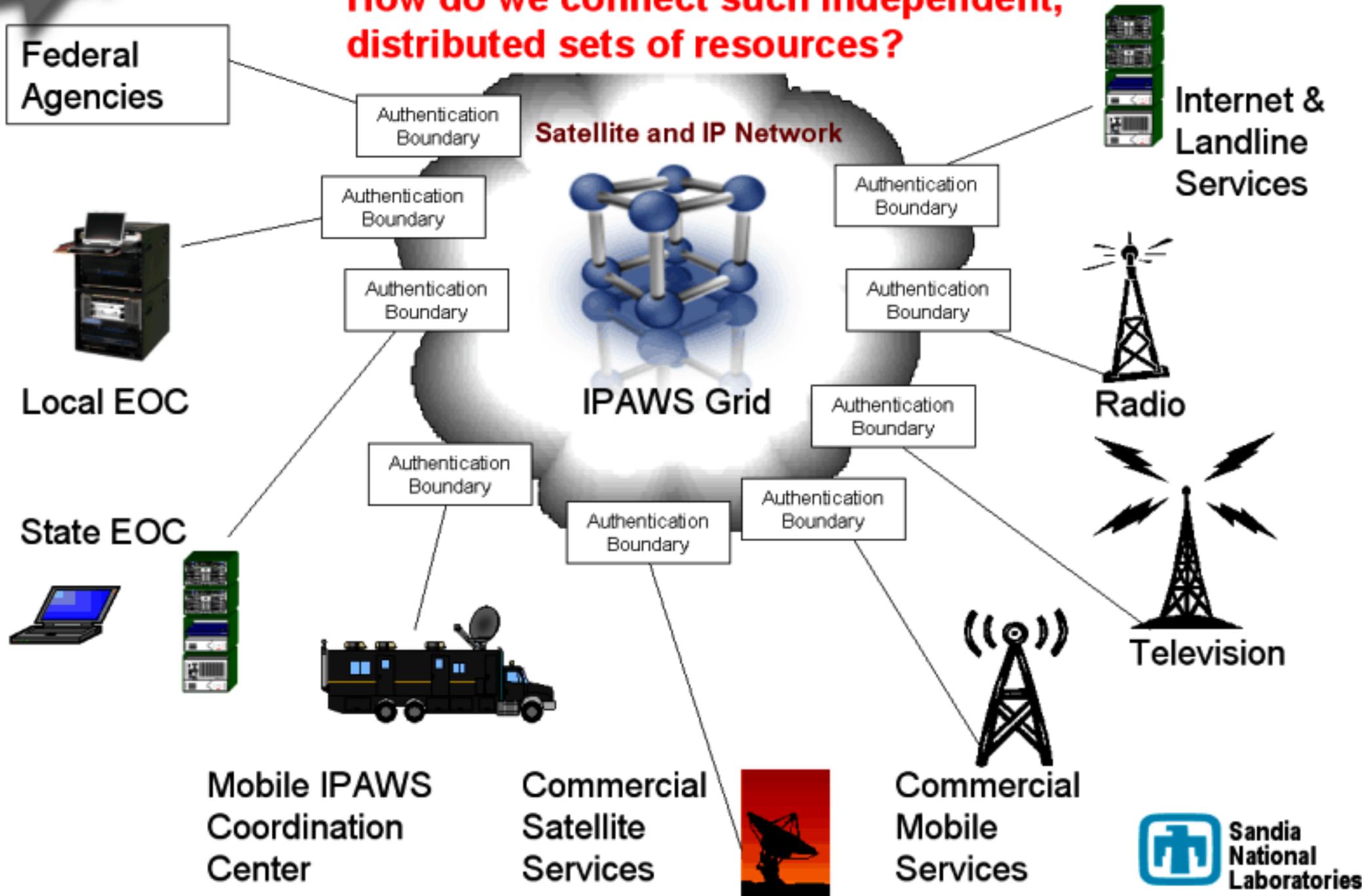**Additional capabilities being fielded include:**

4. Emergency Operations Centers (EOC) ability to remotely activate sirens and other equipment.

5. Capability for EOCs to issue an alert or warning over the Internet to State or local broadcasters.

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IPAWS Pilot Capability for Hurricane Season '07

Text Collaboration
CAP Alert Generation

WARN Servers

State/Local/Tribal
FEMA Ops
3 FEMA Regions

EAS Interface
(WSI Comm Proc)

EAS ENDEC

TV & Radio

EAS Interface
(WSI RF Ctrl)

Tone Alert Radios
Sirens, etc.

Satellite TV

Alert and Warning
IP Network
(CAP/XML)

NOAA

Satellite Radio

DHNS

Video to TV, Cell Phones & Internet

ETN

Opt-In SMS

RSS

RBDS

Cell Broadcast Broker

Cell Phone Carrier

Cell Phone Carrier

Phone Calls

Text Messages

Web Pop Ups

Radio Display

Life & Property
(22 + Amber)

IPAWS Connecting Communities

How do we connect such independent, distributed sets of resources?

Federal Agencies

Authentication Boundary

Authentication Boundary

Authentication Boundary

Satellite and IP Network

IPAWS Grid

Local EOC

State EOC

Authentication Boundary

Mobile IPAWS Coordination Center

Commercial Satellite Services

Authentication Boundary

Commercial Mobile Services

Internet & Landline Services

Authentication Boundary

Authentication Boundary

Authentication Boundary

Authentication Boundary

Radio

Television

Sandia National Laboratories

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- ## FEMA IPAWS Web Site
  - http://www.fema.gov/emergency/ipaws/

- ## IPAWS Supplier Web Site
  - http://public.ca.sandia.gov/IPAWSsuppliers/

- ## OASIS Web Site
  - http://www.oasis-open.org/home/index.php

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