

What U.S. Adoption of AACN Means

Laurie Flaherty, Coordinator, National 911 Program USDOT, NHTSA Office of EMS

Agenda:

- Description of the Challenge
- Status of 911 & Efforts to Date
- Emergency Medical Services & Efforts to Date







National 911 Program



Mission: To provide Federal leadership and coordination in supporting and promoting optimal 911 services. This Federal "home" for 911 plays a critical role by coordinating 911 efforts, creating 911 resources, and administering the 911 Grant Program.

EMS Program

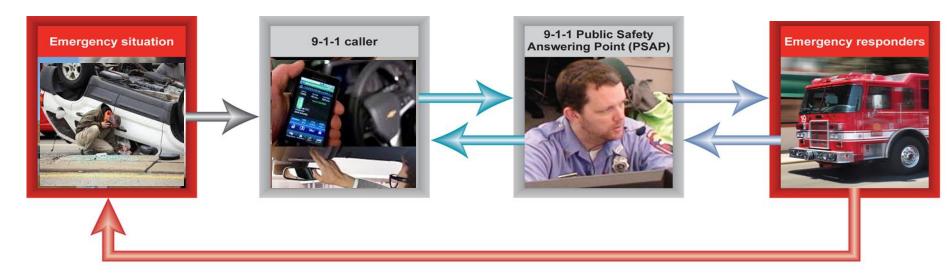


Mission: To reduce death and disability by providing leadership and coordination to the EMS community in assessing, planning, developing and promoting comprehensive, evidence-based EMS and 911 systems.



More Complicated than other Auto-"centric" Issues





To be successful, must be adopted by:

- 1) Auto Industry
- 2) 911 Community
- 3) Emergency Medical Services & Trauma Services





The U.S. 911 System

- More than 240 million calls per year
- 70-80% of calls from Cell Phones
- 6,000-7,000 Public Safety Answering Points (PSAPs)
 - 66-75% are small (2-5 seats)
 - <10% are very large (e.g., NYC, Chicago)</p>
 - Very decentralized governance and operation (state/local)
- Protocol driven (opportunity***)



Transition of the 911 System

Legacy 911	Next Generation 911
Virtually all calls are voice callers via telephones using analog lines to access PSAP.	Voice, text, or video information, from many types of communication devices, sent over IP networks
Most information transferred via voice, very limited data capability	Advanced data sharing is automatically performed
Callers routed through legacy selective routers, limited forwarding / backup ability	Physical location of PSAP becomes immaterial, callers routed automatically based on geographic location, enhanced backup and resiliency
Only back-up: PSAP next door (maybe) Connection to other PSAPs: None	Multiple back-up possibilities Connection to all other PSAPs
Limited ability to handle overflow situations, callers could receive a busy signal	PSAPs able to control call congestion treatment, including dynamically rerouting callers



Status of Next Generation 911 Deployment

Data Element	2011 Data by Reporting States	2013 Data by Reporting States	2014 Data by Reporting States	2015 Data by Reporting States
Statewide NG911 Plan Adopted	9 of 27	15 of 39	19 of 42	20 of 46
Statewide Request for Proposal Released	Not Reported	13 of 36	18 of 42	19 of 46
State Contract Has Been Awarded	Not Reported	13 of 29	16 of 42	18 of 46
Statewide Installation and Testing	Not Reported	9 of 30	11 of 42	17 of 46



Percentage of PSAPs States that are connected to Operational Emergency Services IP Network

Of the 45 reporting States:

- 10 States have 100% of PSAPs connected
- 10 States have some of PSAPs connected
- 19 States do not have PSAPs connected
- 6 States are "unknown" State did not respond to this data element.



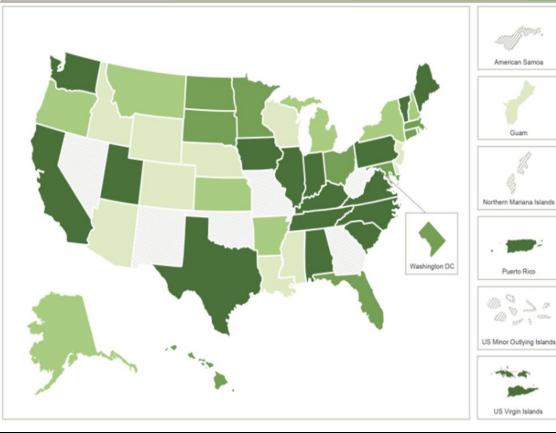
Operational Next Generation 911 Components

No Data Provided

States that Have Adopted a NG911 Plan

States Seeking Proposals States with NG911 Implementation in Progress

States with Operational NG911 Systems



Operational NG911 Systems defined as processing voice calls (ANI & ALI) using IP infrastructure

**States may not have completed implementation statewide



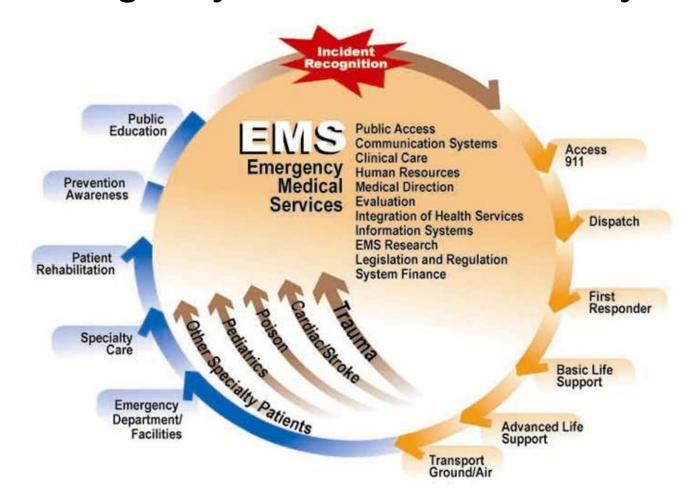


U.S. EMS System

- More than 21,000 state licensed local EMS agencies (National EMS Assessment 2011)
- Almost 1 million licensed EMS Professionals (NASEMSO survey 2009)
- 37 million calls for EMS service in 2009, resulting in 28 million transports (NASEMSO, 2009)
- Very decentralized governance and operation (state/local)
- Evidence-based practice & protocols (EMS Medical Directors ER docs) (opportunity***)
- Trauma System a subset of the EMS system (Trauma Surgeons)



The Emergency Medical Services System





Guidelines for Field Triage of Injured Patients 2011

Step One Vital Signs

Blood pressure, Respiratory rate, Level of consciousness

Step Two Signs of Obvious Injury

Penetrating injuries, Chest deformity, 2 long-bone fractures

Crushed or mangled extremity, Amputation, Pelvis fractures

Open or depressed skull fracture, Paralysis

Step Three Mechanism of Injury

Falls (Adults: >20 feet; Children: >10 feet),

High-risk auto crash (>12 inches Intrusion, Ejection,

Passenger Death, Vehicle telemetry data consistent with a

high risk of injury, Auto vs. pedestrian/bicyclist thrown,

Motorcycle crash >20 mph

Step Four Special Considerations

Elderly, Children, Burns, Pregnancy, Medical Conditions,\

EMS judgment