Intelligent Transportation Systems
U.S. Department of Transportation

# The U.S. Department of Transportation

# 9-1-1 and the Next Generation

**Linda Dodge – ITS Joint Program Office – USDOT**
**Jenny Hansen – Contractor – NG9-1-1 Project Coordinator**
**USDOT – NHTSA**

# Overview

- ✓ Emergency Medical Services (EMS) and 9-1-1 at DOT
- ✓ Secretarial Wireless E9-1-1 Initiative
- ✓ Next Generation 9-1-1 Initiative
- ✓ National 9-1-1 Office

# 9-1-1, EMS and DOT

- Highway Safety Act of 1966
- 9-1-1 as part of the Emergency Medical Services (EMS) system
- National Highway Traffic Safety Administration (NHTSA)
  - Office of EMS: Federal EMS Lead Agency

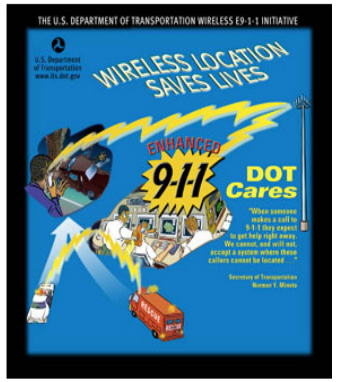
# Wireless Enhanced 9-1-1 (WE9-1-1) Initiative

## Secretary of Transportation Norman Y. Mineta:

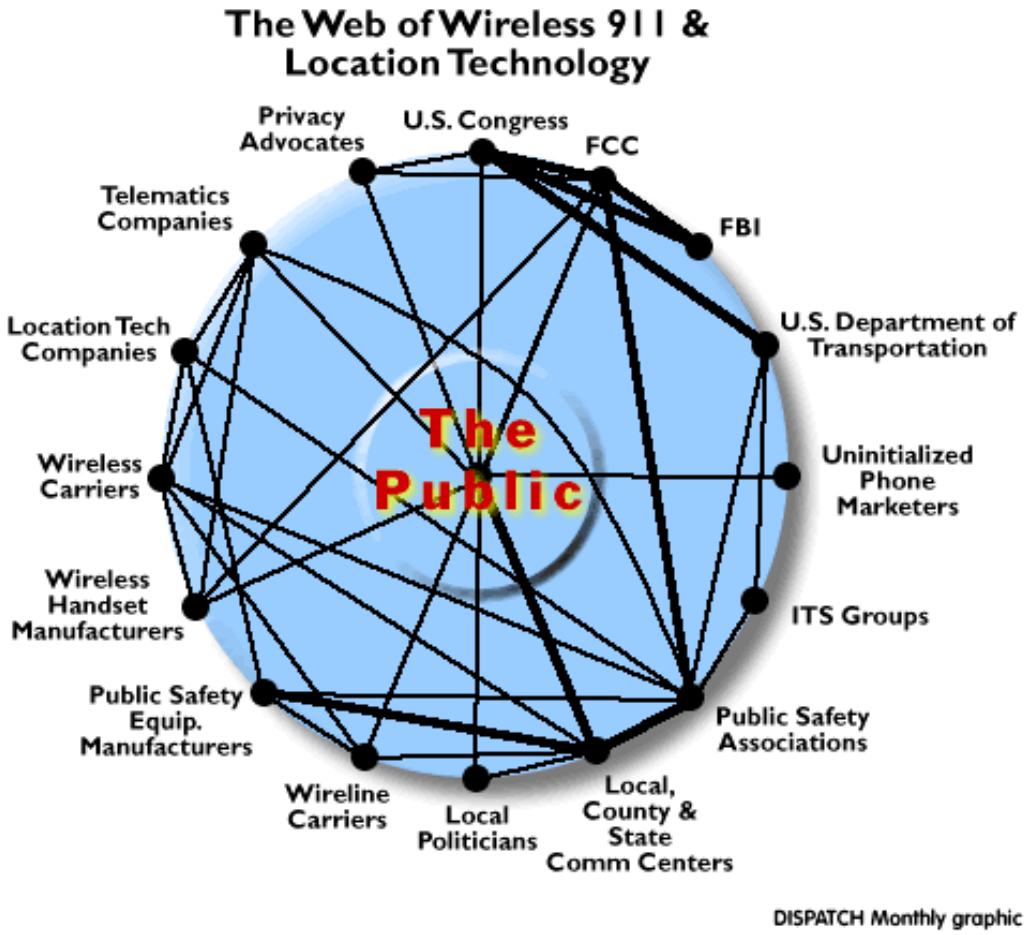
- Convened a Wireless E9-1-1 Stakeholder Summit in April 2002
- Accelerating the deployment of wireless E9-1-1
- National leadership and attention to the WE9-1-1 issue

# WE9-1-1 Initiative: Accomplishments

- **Priority Action Plan**
  - Product of Steering Council and Expert Working Group
- **Technical Assistance Products for PSAPs**
  - Clearinghouse; videos; PSAP survey and database
  - Produced under contract with NENA
- **Technology Innovation Roundtable**
  - Reexamination of WE9-1-1 technological approaches
  - Led to Next Generation 9-1-1 Initiative




# NG9-1-1 Project: An Impact Statement



# NG9-1-1 Project: Today and Tomorrow

| Today's 9-1-1 | Future 9-1-1 |
|---|---|
| Primarily voice calls via telephones. | Voice, text, or video from many types of communication devices |
| Minimal data | Advanced data capabilities |
| Local access, transfer, and backup | "Long distance" access, transfer, and backup |
| Limited capability for emergency notification | Location-specific emergency alerts possible for any networked device |

# Consensus within the 9-1-1 Community

NG9-1-1

Capitalize on advances in technologies that provide:

- ✓ Quicker and more accurate information to responders
- ✓ Better and more useful forms of information
- ✓ More flexible, secure and robust PSAP operations
- ✓ Lower capital and operating costs

# NG9-1-1 Project: The Goal

## Long Term Goal:

To design a system that enables the transmission of voice, data or video from different types of communication devices to the Public Safety Answering Points (PSAPs) and onto emergency responder networks.

## Major Milestones:

- National architecture and high-level design for NG9-1-1 System
- Proof of Concept
- Transition plan for NG9-1-1 implementation

# NG9-1-1 Project: Program Plan

- **Engage stakeholders**
  - Public and Private Agencies
  - Create Partnerships
  - Connecting the Dots

- **Establish the vision**
  - National Architecture (*Internetwork*)


- **Define the future**
  - Collaboration
  - Shared Systems
    - Full Autonomy at the Local Level
    - Robust Network
    - Continuity of Operations

# NG9-1-1 Initiative: Design Assumptions

NG9-1-1

- Access to emergency services will occur within a broader array of interconnected emergency networks
- The system must support the transmission of voice, text, images and other data from all types of communication devices
- Will build on existing IP-based functionality already inherent in the Internet and similar packet-based infrastructure
- Will require new emergency response network architecture to be designed, along with new and modified standards

# NG9-1-1 Initiative: IACP Considerations

- The ability to generate and communicate new data and information about an event
- More effective incident management
- Safer First Responders
- Fault tolerant, flexible infrastructure in place to support flow of multi-media forms of data and information from and to all types of devices

# NG9-1-1 Project: Current Activity

- RFP closed: July 6, 2006 (4:15 p.m.)
  - http://www.fbo.gov/spg/DOT/FHWA/OAM/DTFH61%2D06%2DR%2D00030/SynopsisP.html
- Evaluating the proposals
- Continue engaging the stakeholders (public and private)
- Conduct meeting of Federal agencies
- Continue monitoring standards development activities
  - Provide the bridge between this initiative and on-going IP-telephony standards development and related activities

# National 9-1-1 Office



## *ENHANCE 911 Act of 2004* (PL 108-494)

- Federal 9-1-1 responsibilities:
  - Formal program and policy coordination across federal agencies.
  - Federal funding support to PSAPs and related state and local agencies for E9-1-1 deployment and operations.

# ENHANCE 911 Act (PL 108-494)

- Requires NHTSA and NTIA to coordinate on 9-1-1 (FCC and DHS)
  - Create an E9-1-1 Implementation Coordination Office (ICO)
  - Establish a joint program to facilitate coordination and communication
- DOT is <u>authorized</u> up to $250 million per year for five years for the grant program *(no funds appropriated)*

# ENHANCE 911 Act (PL 108-494)

- Assist state level E9-1-1 coordination.
- Collect information on E9-1-1 practices, procedures and technologies.
- Provide technical assistance to state-level E9-1-1 entities
- Administer a grant program for “Phase II E9-1-1 Implementation”

# Current Related Legislation

- **H.R. 5252**
  - NATIONAL REPORT- 18 months after the enactment, the National 911 Implementation and Coordination Office shall develop a report to Congress on migrating to a national IP-enabled emergency network capable of receiving and responding to **all** citizen activated emergency communications.

# NG9-1-1: It's Not Just Telephones Anymore

**Would You Like to be Added to the Project Email Distribution List?**

**Do You Have Any Questions?**

**Do You Have *Best Practices* to Share?**

**Linda Dodge**
Linda.Dodge@dot.gov

**Jenny Hansen**
Jenny.Hansen@dot.gov

http://www.its.dot.gov/ng911

NG9-1-1