**TRB EMS Subcommittee ANB10(5)** 

## EMS Safety Summit 2012 Safety Systems, Strategies and Solutions

Response, Emergency Staging, Communications, Uniform Management, and Evacuation (R.E.S.C.U.M.E.) Linda D. Dodge ITS Joint Program Office, US DOT

> February 29th , 2012 TRANSPORTATION RESEARCH BOARD of the NATIONAL ACADEMIES

### Response, Emergency Staging, Communications, Uniform Management, and Evacuation (R.E.S.C.U.M.E.)

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### **Dynamic Mobility Applications**

 Expedite development, testing, commercialization, and deployment of innovative mobility applications Transformative Mobility Applications

- · Create applications using DCM data environments
- · Develop and assess decision support applications
- · Demonstrate promising applications
- · Determine infrastructure requirements

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### **Application Bundles**

 Expedite development, testing, commercialization, and deployment of innovative mobility applications



Applications

- Create applications using DCM data environments
- · Develop and assess decision support applications
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# Incident Scene Pre-Arrival Staging Guidance for Emergency Responders (RESP-STG) • Situational awareness info to

- Situational awareness info to responders while en route
- Input to responder vehicle routing, staging and secondary dispatch decisions
  - Staging plans
- Satellite imagery
- GIS data
- Current weather data
- Real-time modeling outputs







### Incident Scene Work Zone Alerts for Drivers and Workers (INC-ZONE)

- Two components
- Alerts drivers of lane closings and unsafe speeds for temporary work zones
  - Could be augmented with merging and speed guidance to drivers.
- Warns on-scene workers of vehicles with trajectories or speeds that pose a high risk to their safety



# Next Generation 911 Initiative

### Long Term Goal:

To enable the general public to make a 911 "call" (any real-time communication – voice, text, or video) from any wired, wireless, or Internet Protocol (IP)-based device, to the PSAP, and enable data sharing with the emergency communication network

#### **Major Milestones:**

- National architecture and high-level design for NG911 System
- Proof of Concept Demonstration
- Transition plan for NG9-1-1 implementation







## Summary: DMA – R.E.S.C.U.M.E.

- Early 2012: Implement the Open Source Portal
- Early 2012: Continuing to engage stakeholders on DMA program direction
- May 2012: Complete ConOps for each bundle
- June 2012: Develop Phase 2 Integrated Research Plan
- September 2012: Procure and begin developing selected DMA bundles
  - Challenges
  - Small Scale Field Tests
  - Simulation Studies

