

S&T Programs: Preparedness & Response

DHS University Network Summit Washington, DC

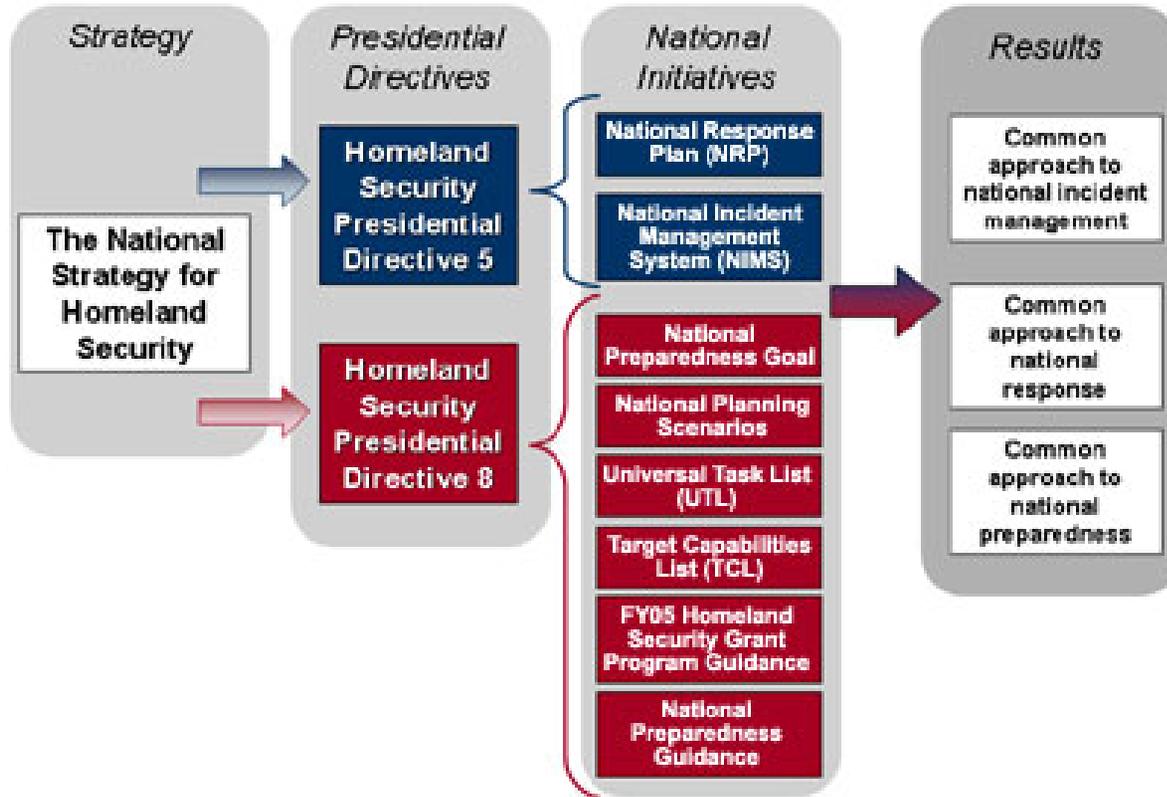
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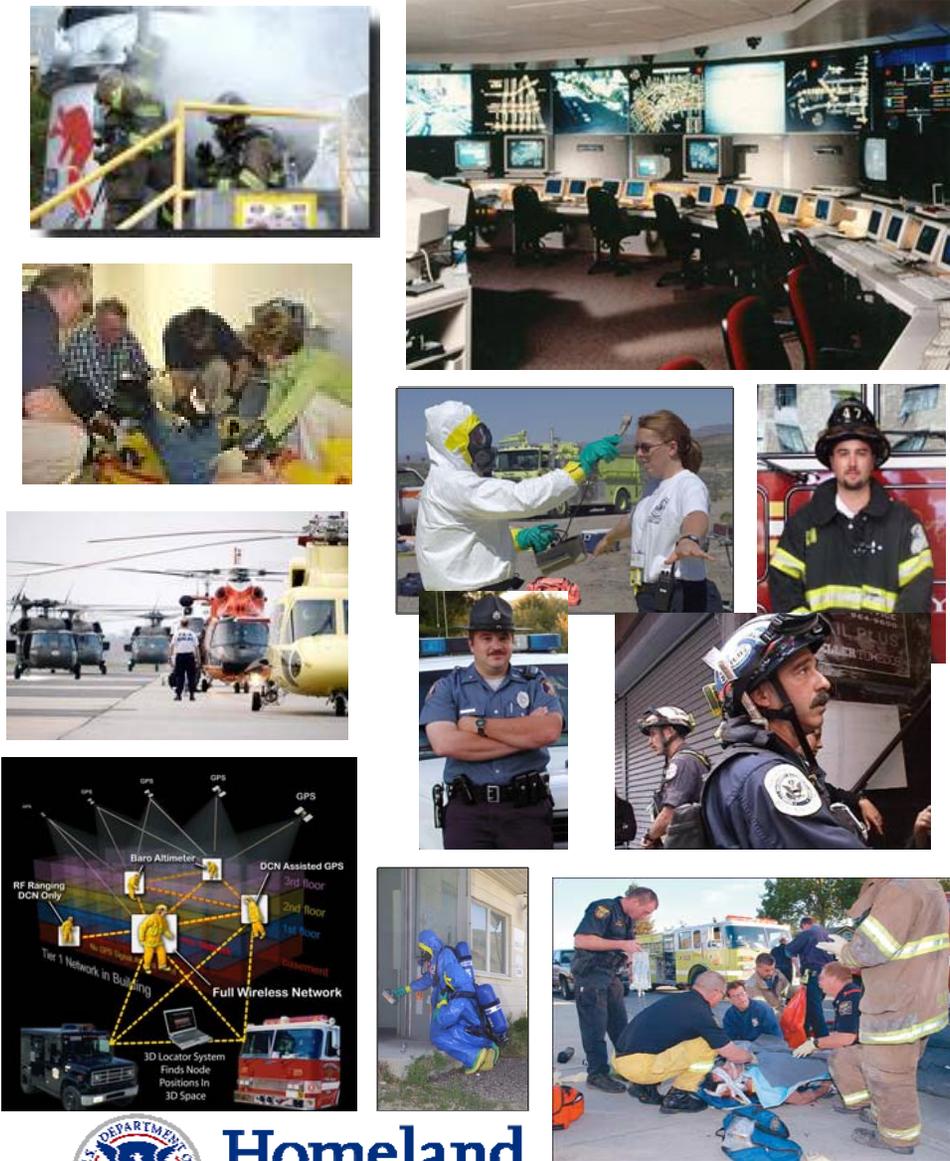
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Overview



Secretary Chertoff DHS Priority Goal #10: Ensure that Americans and their governments at all levels are ready for catastrophic incidents (man-made and natural) and are capable of responding to and recovering effectively. DHS will comprehensively strengthen and exercise its preparedness and emergency management capabilities and will assist our Federal, State, local, and private sector partners in doing the same

Preparedness and Response at a Glance



- **Objectives**
 - ◆ Enhance the Nation’s capability to prepare for, respond to and recover from all-hazards emergencies through development and deployment of enabling technologies

- **Program Elements**
 - ◆ Incident Management and Decision Support
 - ◆ P&R Technologies
 - ◆ Advance Concepts and Systems
 - ◆ Regional Technology Integration

- **Customer**
 - ◆ Federal Emergency Management Agency (FEMA)
 - ◆ Preparedness Directorate’s Grants & Training
 - ◆ Chief Medical Office

- **End-User**
 - ◆ 44,000 Emergency Response Organizations
 - ◆ 18,000 Law Enforcement Agencies
 - ◆ 30,000 Fire Departments
 - ◆ 83,000 Local Governments

Big Picture

- ◆ **P&R programs will enhance situational awareness and preparedness to improve response and recovery**
 - Common Architectural framework for management and sharing of incident information
 - Training and decision analysis for emergency response community
 - Tracking, Locating, and Monitoring first responders on scene
 - Next-Gen equipment and tools for first responders
 - Incident Logistics and Resource Tracking System
 - Improved regional preparedness through technology integration, testing, and evaluation



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P&R Programs (1)

- **Unified Incident Command and Decision Support**
 - Open-architecture NIMS Compliant Framework
 - Gather and share mission critical incident information
 - Manage incident resources and seamlessly communicate
 - Scale from local incidents to incidents of national significance
- **Training, Exercise and Lessons Learned**
 - Simulation driven virtual/live/constructive emergency response exercise
 - Decision making, consequences, and causes and effects analysis



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P&R Programs (2)

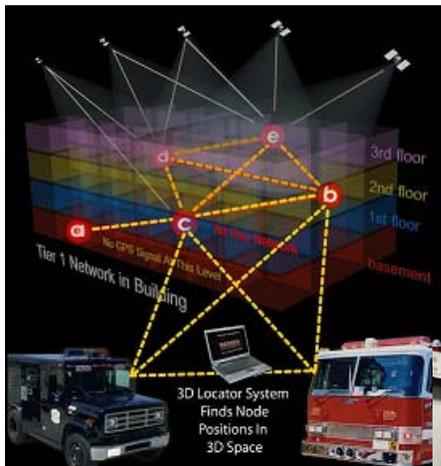


- **Advanced 3-D Locator System**

- 3-D location, tracking, and monitoring inside and outside of structures

- **Resource Awareness Data Portal**

- Interconnected knowledge base for emergency responders communities in urban areas (starting with Tampa)



- **Regional Technology Integration**

- Deploy innovative technologies across the nation
- Test and evaluate integrated technologies (sensors, info sharing, training, etc.) in multi-county/multi state large urban areas
- Validate and prove they can be transitioned to other small/large jurisdictions



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P&R Programs (3)

- **Personal Protection Equipment**
 - Multi-functional/multi-threat protective materials and material systems
 - Multi-hazard environments resulting from natural and man made events

- **Monitoring Health and Stability of Structures**
 - Identifies/Notifies of structural collapse in real-time at a distance

- ***And many more ...***



Q & A



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