



<http://www.pscr.gov>

Public Safety Communications Research Program  
Department of Commerce – Boulder Labs

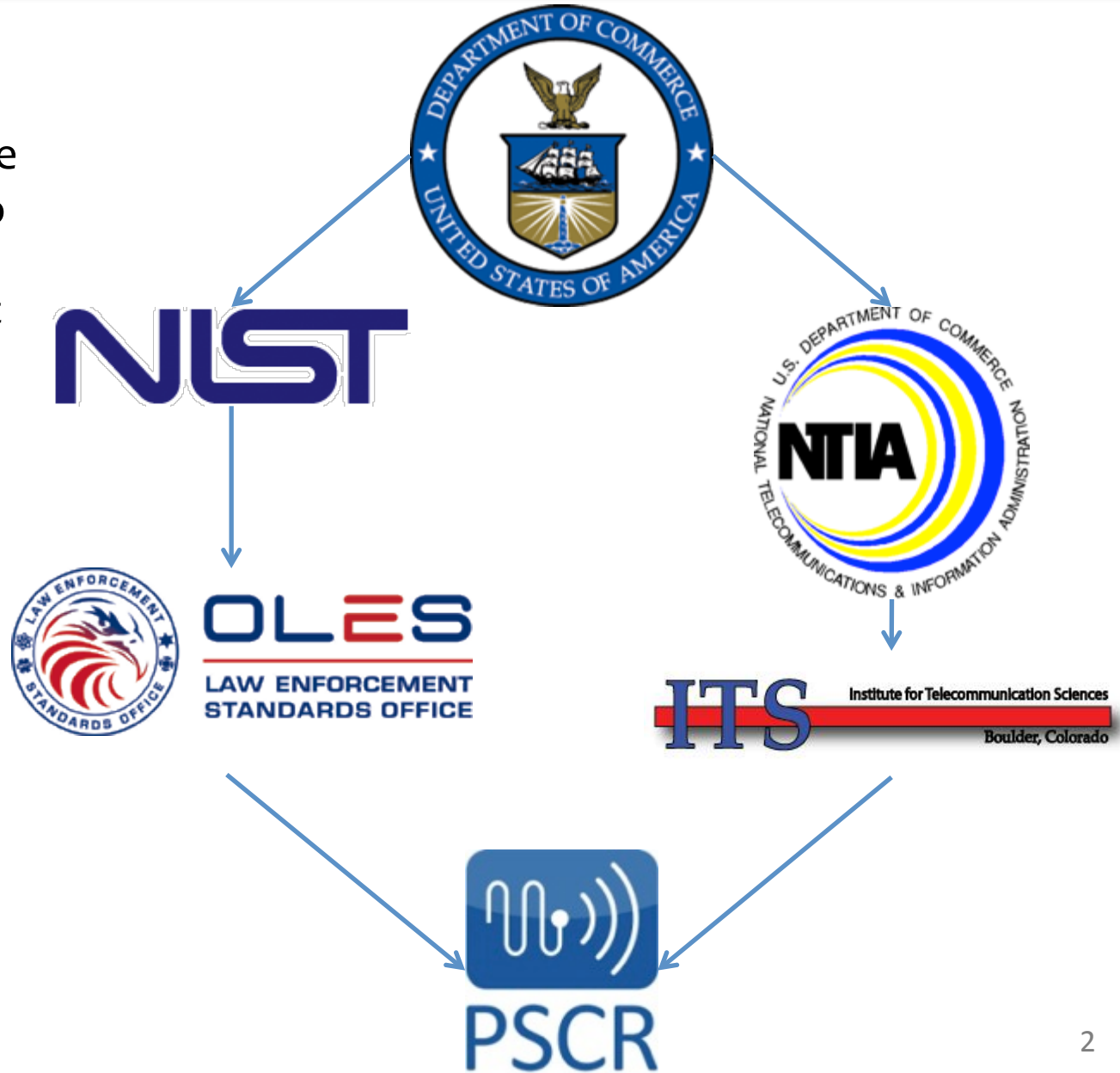


# Public Safety Communications Research Program

Located at the  
Department of Commerce  
Boulder Labs in Colorado

The PSCR Program is a joint  
effort between:

NIST's  
Office of Law  
Enforcement Standards  
(OLES)  
and  
NTIA's  
Institute for  
Telecommunication  
Sciences  
(ITS)



# PSCR Portfolio

<b>LMR Standards and Technologies</b>	<b>Broadband Standards and Technologies</b>	<b>Emerging Standards and Technologies</b>
P25 Standards and CAP	Demonstration Network	Bridging LMR & LTE
P25 Test Tools and Simulation	Requirements and Standards	Video Quality
Public Safety VoIP	Mission Critical Voice	Security
Audio Quality	Modeling and Simulation	
RF Propagation Studies		

# DHS Office of Interoperability

- Public Safety LTE Broadband Requirements
  - Quantitative Launch Statement of Requirements
  - Public Safety Grade definition
  - LTE Console
- Modeling and Simulation
  - Network resiliency
  - Performance sensitivity
  - Small cell deployment
- Broadband Demonstration Network
  - Boomer cell deployment
  - RF Load testing
  - Indoor
- Security Research and Testing
  - Network interface and Mobile Application security efforts
  - Identity Management
- P25 CAP Transition
- Video Quality
- LMR to LTE Interface
- Customs and Border Patrol



# DHS Office of Emergency Communications

- Project plans pending for:
  - Testing and Evaluation
  - Modeling and Simulation
  - Public Safety LTE Broadband Standards
- User travel

# FirstNet

- Testing and Evaluation
  - Priority
  - Pre-emption
  - Quality of service
- Modeling and Simulation
  - Incident scenarios
  - Models for spectrum sharing
- Public Safety LTE Broadband Standards
  - Mission critical Push-to-Talk
  - Group communications efficiency
  - Direct mode
- PTCRB
- ETSI Core Network and IOT
- Satellite investigation

# R&D Roadmap Workshop

- November 13-15, 2013
- Goal
  - Highlight needs for public safety broadband research and development (R&D) beyond the short term horizon (18-24 months) and begin to identify research areas that need to be developed over the long term (5-10+ years) in order for a public safety broadband network to fulfill its ultimate goals.
- Outcomes
  - Enhanced collaboration among the Public Safety, Public Sector, and Vendor communities
  - Identification of R&D areas that need to be developed to support fulfillment of National Public Safety Broadband Network goals
  - Input from the stakeholder community on prioritization of R&D efforts
  - Understanding of current efforts related to future broadband capabilities
- Next Steps
  - Data Analysis and Organization
  - Further Public Safety Input and Review
  - Roadmap Framework to be completed by early 2014
  - Updating Public Safety Scenarios



Thank You!

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For Additional Information:

<http://www.pscr.gov>

