Gov. Chris Christie | Lt. Gov. Kim Guadagno | Dir. Chris Rodriguez

NJOHSP

Office of Homeland Security and Preparedness

Broadband Technology Outreach Initiative

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Workshop Agenda

- History of FirstNet: legislation, governance, funding
- JerseyNet: framework, regional development
- JerseyNet: deployable systems
- Next Steps

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Module One:
History of FirstNet

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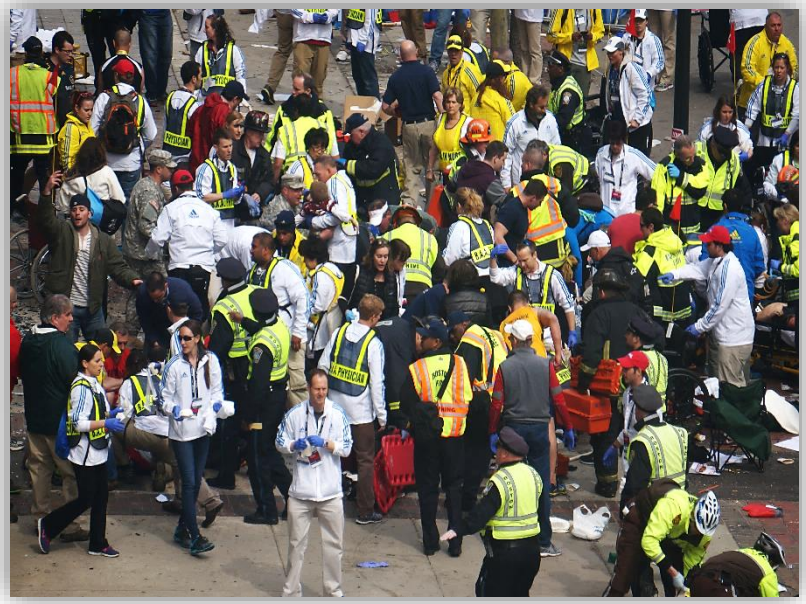
FirstNet Beginnings

- 9/11 Commission recommended a nationwide interoperable public safety communications network
- February 2012: Middle Class Tax Relief and Job Creation Act created the First Responder Network Authority (FirstNet)
- FirstNet was established to create, deploy, operate, and maintain a nationwide communication network

FirstNet Goals

- First responder dedicated network
- Secure network operations
- Flexible capabilities:
  - Manages multiple (100+) events simultaneously
  - Operates in high demand situations
  - Functions in areas with no commercial service



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FirstNet

Governance:

Build, deploy, and operate network

Technology Advisory Board defines requirements for FirstNet

Funding:

Capital expenditure for nationwide FirstNet buildout $6.5 billion

New Jersey received:

$39.9 million for JerseyNet

$2.7 million for FirstNet planning implementation

Spectrum:

Public safety is dedicated 20 MHz

700 MHz narrowband available for LTE

Secondary Use:

Authorized in legislation

Details yet to be determined

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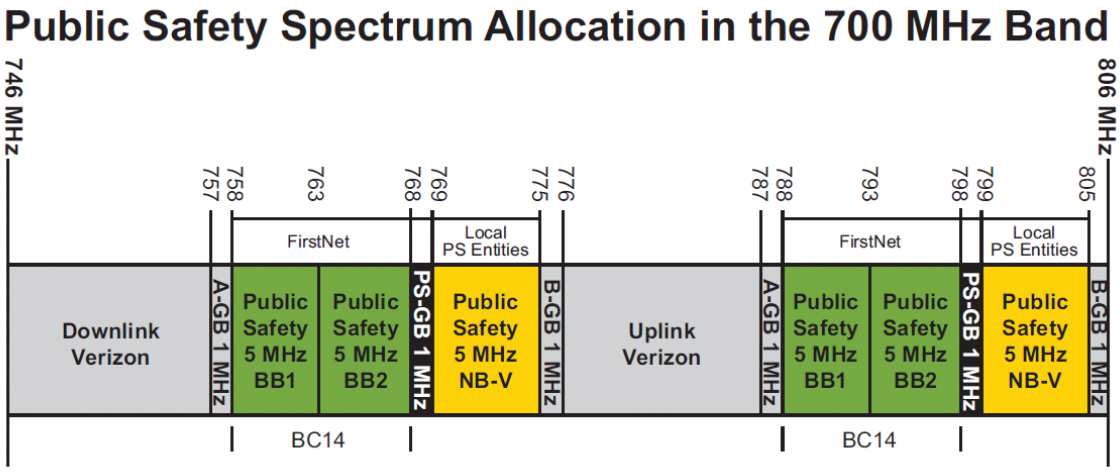
Bandwidth Allocation



Public Safety 700 MHz Allocations

Total Allocation		34 MHz
Broadband Portion	(10 x 10)	20 MHz
Narrowband Portion	(6 x 6)	12 MHz
Guardband Portion	(1 x 1)	2 MHz

Legend

FirstNet = First Responder Network Authority
PS Entities = Public Safety Narrowband Licencees

BB = Broadband
NB-V = Narrowband Voice (e.g., P25 systems)
PS-GB = Public Safety Guardband

FCC allocated spectrum to public safety for broadband data sevices
Commercial Mobile Carriers

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Module Two: JerseyNet Framework Regional Development

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JerseyNet Coverage

Jurisdictions: Blackwood, Camden City, Cherry Hill, Lindenwold, Mount Ephraim, Voorhees, Runnemede

Jurisdictions: Absecon, Atlantic City, Pleasantville

Jurisdictions: Bloomfield, Clifton, Garfield, Lyndhurst, Montclair State University, Newark, North Arlington, Paterson, Nutley, Wallington, Morristown

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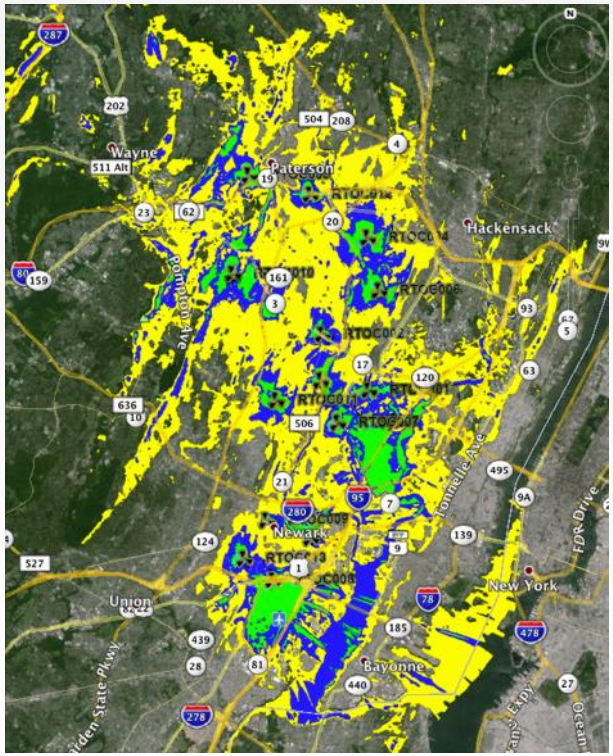
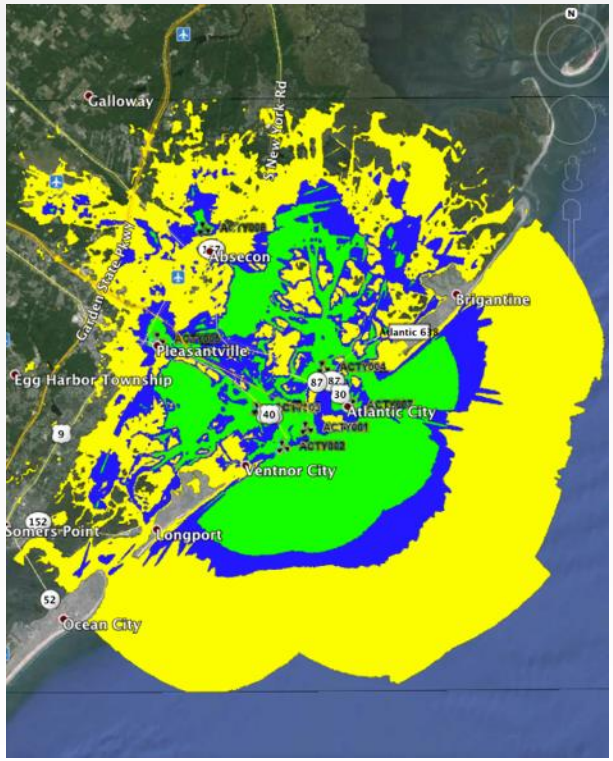
JerseyNet Coverage

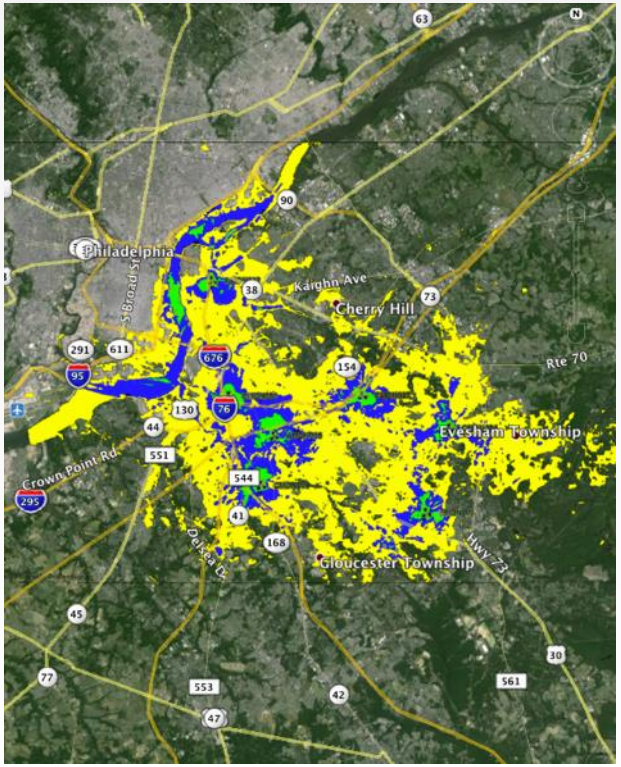
Route 21



Atlantic City



Camden



In-Building Cellular

Outdoor Cellular

Vehicle Modem

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JerseyNet Buildout

- Network Operations Center (NOC):
  - Central command
  - Monitors all deployable systems
- Each region consists of:
  - One System on Wheels (SOW)
  - Multiple Cells on Wheels (COW)
- SOWs and COWs are deployable networks

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JerseyNet Deployments

Baltusrol PGA Championship

- 80,000+ attendees

Atlantic City Air Show and Beach Concert

- 160,000+ attendees

Miss America Beauty Pageant

- 100,000+ attendees

Philadelphia Papal Visit

- 800,000+ attendees

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Evolution of Devices

- Mobile incident command support
- Band 14 or commercial network capable
- Legacy equipment or stand alone system
- Interagency communications capable
- Currently operational

Smartphones
- LTE, 3G, Satellite

Portable Routers
- LTE, 3G, Satellite

Tablets
- LTE, 3G, Satellite

Radio Interoperability
- Links mission critical radios on various frequencies

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Module Three:
JerseyNet Deployable Systems

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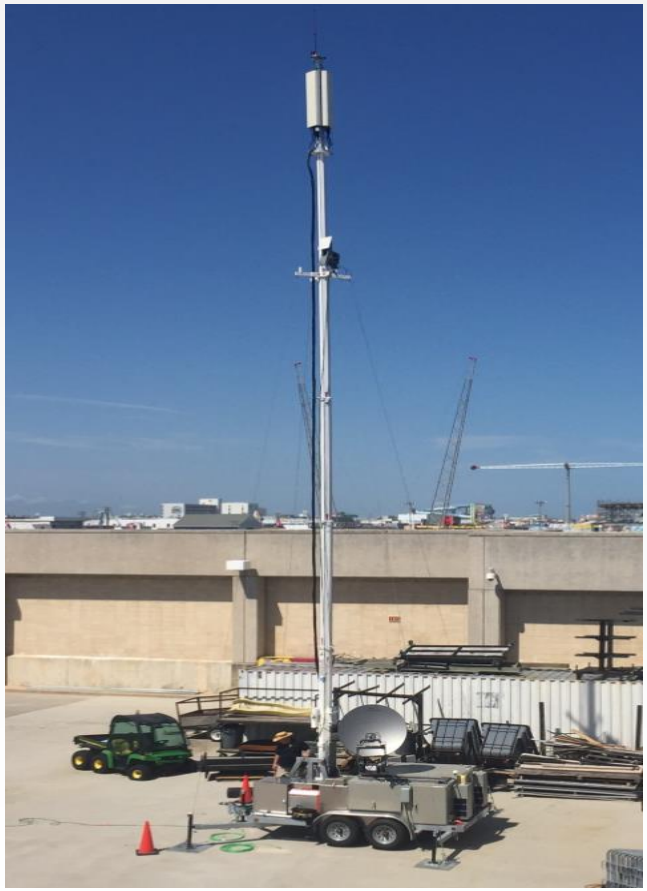
System on Wheels Trailer

- Transportable, inclement weather resistant
- Provides dedicated, secure wireless coverage over a three to five mile range
- Sixty foot telescoping tower with 98 MPH wind rating
- Two person setup - two parking space footprint
- Accessible for 6’-6” parking garage deployment
- 72 hour self-sustaining generator power
- Provides satellite connectivity to the Internet
- Microwave capacity connects to all Cells on Wheels (COWs) within the region.



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Cell on Wheels Trailer

- Transportable, inclement weather resistant
- Extends secure wireless coverage range an additional three to five miles
- Sixty foot telescoping tower with 98 MPH wind rating
- Two person setup - two parking space footprint
- Accessible for 6’-6” parking garage deployment
- 72 hour self-sustaining generator power

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System on Wheels Van

- Sixty foot telescoping mast
- Provides dedicated, secure wireless coverage over a three to five mile range
- Satellite connectivity to the Internet
- Equipped with cache of user devices

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System on Wheels Tahoe

- Highly mobile - four wheel drive
- Provides dedicated, secure wireless coverage over a one to three mile range
- Satellite connectivity to the Internet
- Equipped with cache of user devices

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JerseyNet Trailer Protection Electromagnetic Pulse

Faraday cages protect SOWs and COWs from electromagnetic radiation

Faraday Cage

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JerseyNet Conclusions

- Deployable public safety data network
- Delivers advanced LTE broadband communications statewide
- Cells on Wheels and Systems on Wheels provide high capacity, low latency, voice, video and data
- Fosters a common operating picture

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Module Four:
Next Steps

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FirstNet State Plan Next Steps

Click here to access the FirstNet video

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Contact Information

For additional information please visit:

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Or contact us via email:

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