



Gov. CHRIS CHRISTIE | Lt. Gov. KIM GUADAGNO | Dir. CHRIS RODRIGUEZ

**NJOHSP**

**OFFICE OF HOMELAND SECURITY AND PREPAREDNESS**

# Broadband Technology Outreach Initiative - JerseyNet

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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





# FirstNet

## Governance:

Build, deploy, and operate network  
Technology Advisory Board defines requirements for FirstNet

## Funding:

Capital expenditure for nationwide buildout \$7 billion  
New Jersey received:  
\$39.9 million for JerseyNet  
\$2.7 million for state/local implementation

## Spectrum:

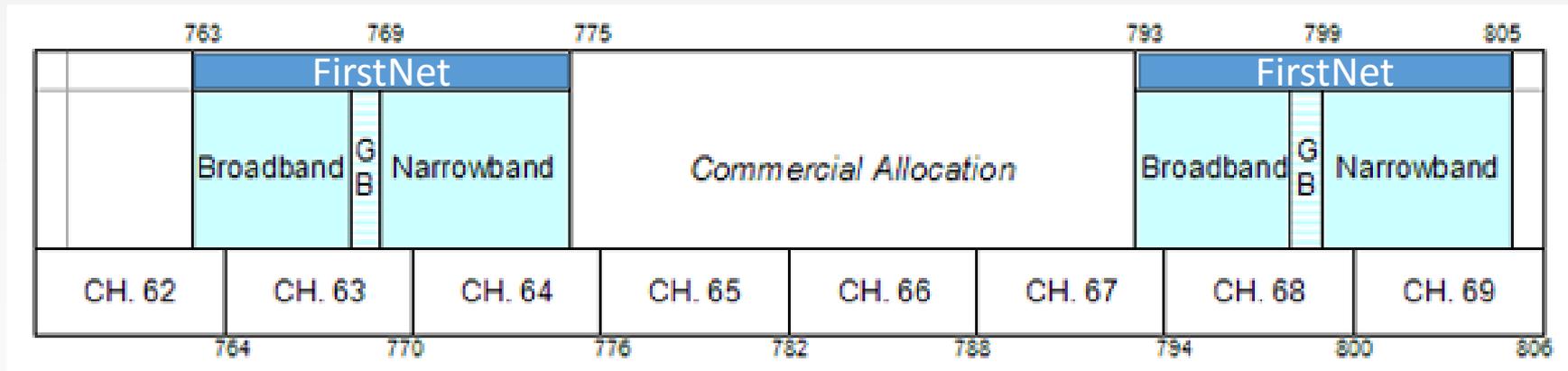
Public safety is dedicated 20 MHz  
700 MHz narrowband available for LTE

## Secondary Use:

Authorized in legislation  
Details yet to be determined



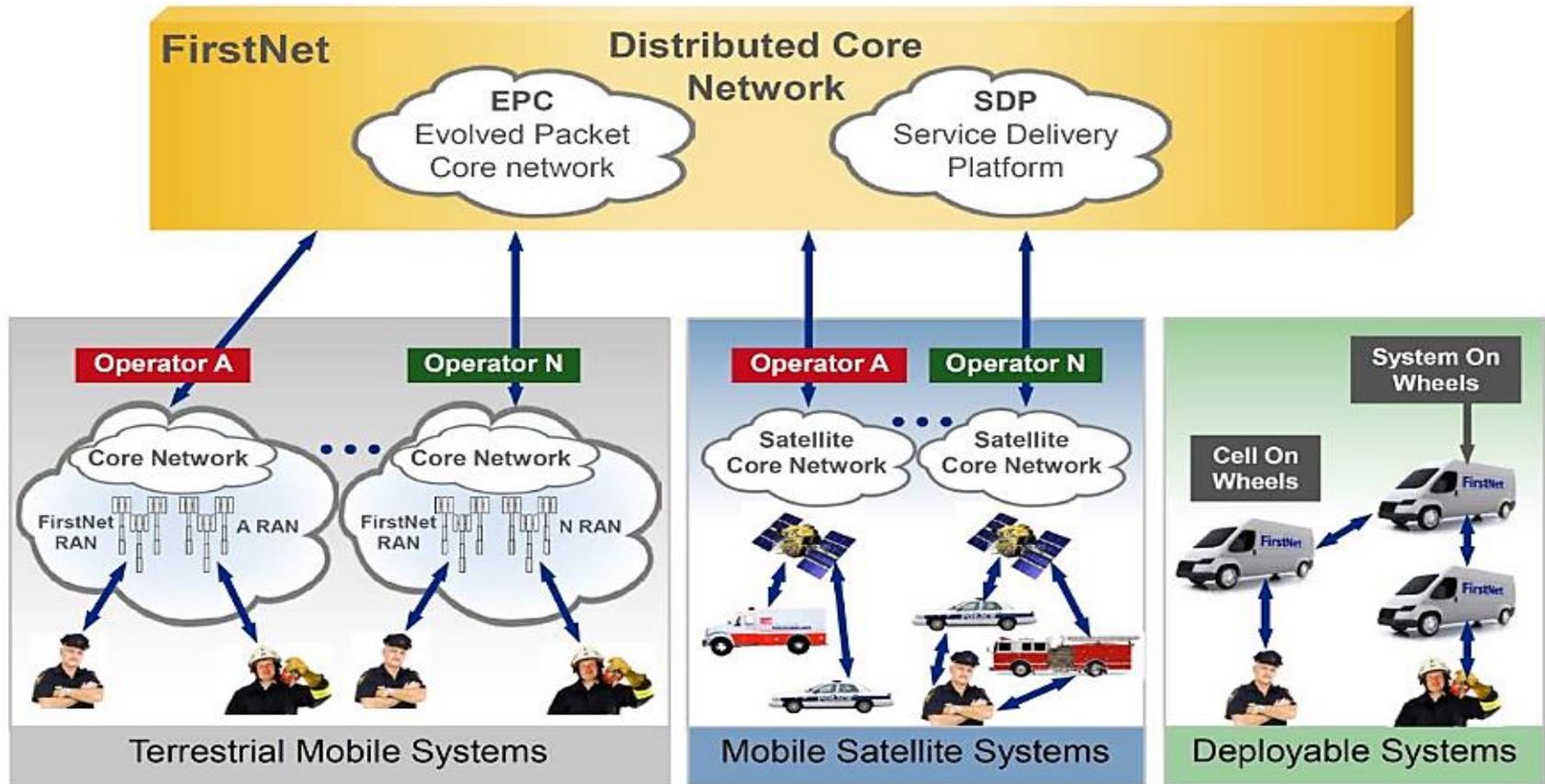
# Bandwidth Allocation



- FirstNet Allocation Broadband 763-775 and 793-805 MHz



# FirstNet Vision



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# Module Two: JerseyNet Framework Regional Development

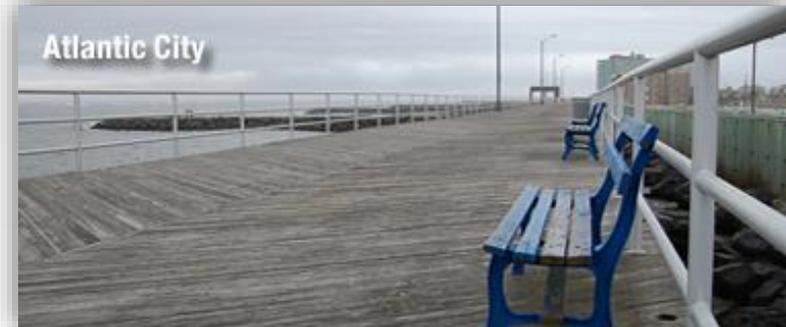
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# JerseyNet Coverage



**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, and Wallington



# JerseyNet Buildout

- Network Operations Center (NOC):
  - Central command
  - Monitors all deployable systems
- Each region consists of:
  - One System on Wheels (SOW)
  - Multiple Cell 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 & Beach Concert

- 160,000+ attendees



## Miss America Beauty Pageant

- 100,000+ attendees



## Philadelphia Papal Visit

- 800,000+ attendees



# 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



# Handheld Devices



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# Module Three: JerseyNet Deployable Systems



# Cell on Wheels Trailer

- Transportable, inclement weather resistant
- Range three to five miles
- Sixty foot telescoping tower
- Two person setup - two parking spaces
- NetGuardian security system
- 72 hour self sustaining power

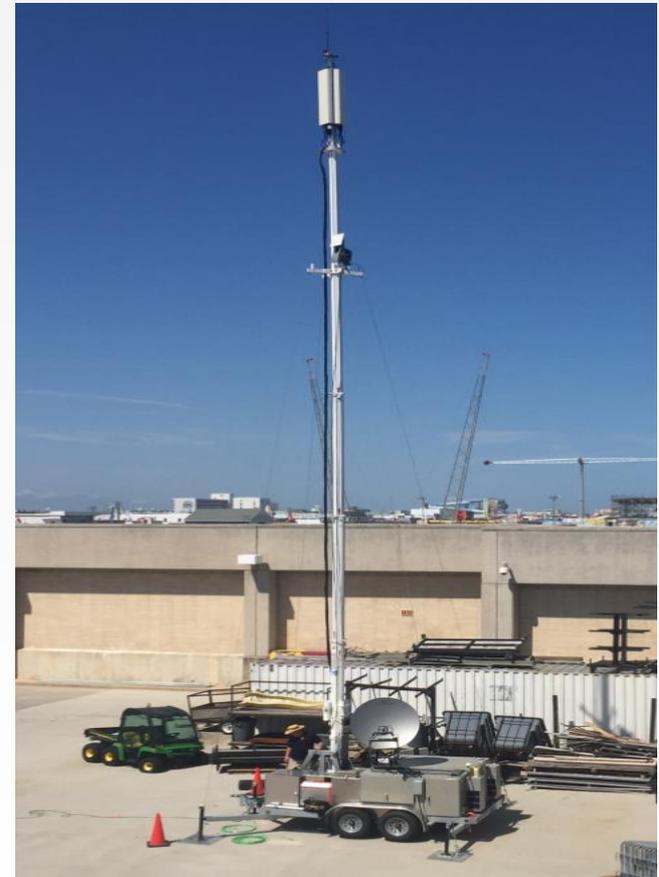


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# System on Wheels Trailer

- Transportable, inclement weather resistant
- Sixty foot telescoping tower
- Two person setup - two parking spaces
- NetGuardian security system
- 72 hour self sustaining power
- Satellite connectivity
- Self sustaining networking
- Mutualink integration



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# System on Wheels Van

- Sixty foot telescoping mast
- Range three to five miles
- Microwave link
- Equipped with end-user devices
- 24 hour self-sustaining power



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# System on Wheels Tahoe

- Highly mobile – four wheel drive
- Range one to three miles
- Multiple network capabilities
- Single sector antenna
- Self-sustaining power
- Equipped with end-user devices



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# JerseyNet Trailer Protection Electro Magnetic 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
- Cell on Wheels and System on Wheels provide high capacity, low latency, voice, video and data
- Fosters a common operating picture



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# Module Four: Next Steps



# FirstNet State Plan Next Steps

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# Contact Information

For additional information please visit:  
[njohsp.gov/jerseynet](http://njohsp.gov/jerseynet)

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[JerseyNet@njohsp.gov](mailto:JerseyNet@njohsp.gov)