



TENNESSEE CONSOLIDATED NETWORK  
FOR EMERGENCY COMMUNICATIONS  
AND TECHNOLOGY



**FirstNet**<sup>®</sup>

Broadband Conference  
Data Collection Discussion

August 5, 2015

# Take-a-Ways for Data Collection



- High-level Understanding of Goals
- Familiar with Methods
  - Online Survey
  - Coverage Objective Workshops
  - Tabletop Exercises
- Knowledge of Timeline
- Ask Questions Today and Tommorrow

Tennessee Public Safety Broadband Network  
Data Collection Workbook



Commissioned by the State of Tennessee  
Department of Safety and Homeland Security

July 21, 2015

Version 6.0

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# Background - Data Collection



- The **American Taxpayer Relief Act of 2012**
- **Funding by** National Telecommunications and Information Administration
- *State and Local Implementation Grant Program - SLIGP*
- **Phase 1 – Outreach, Education, Governance**
- **Phase 2 – Data Collection, State Plan Development**

# Public Safety Input is Critical to Planning TNCNECT



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## Coverage

### Where?

- Where Needed (Objectives)
- Different Device Types
- Throughput levels

## Capacity

### How Much?

- # of Users and Devices
- Application Usage
- Data Consumption

### Network Planning

- Acquisition
- Costs to Build & Maintain
- Phased Deployment



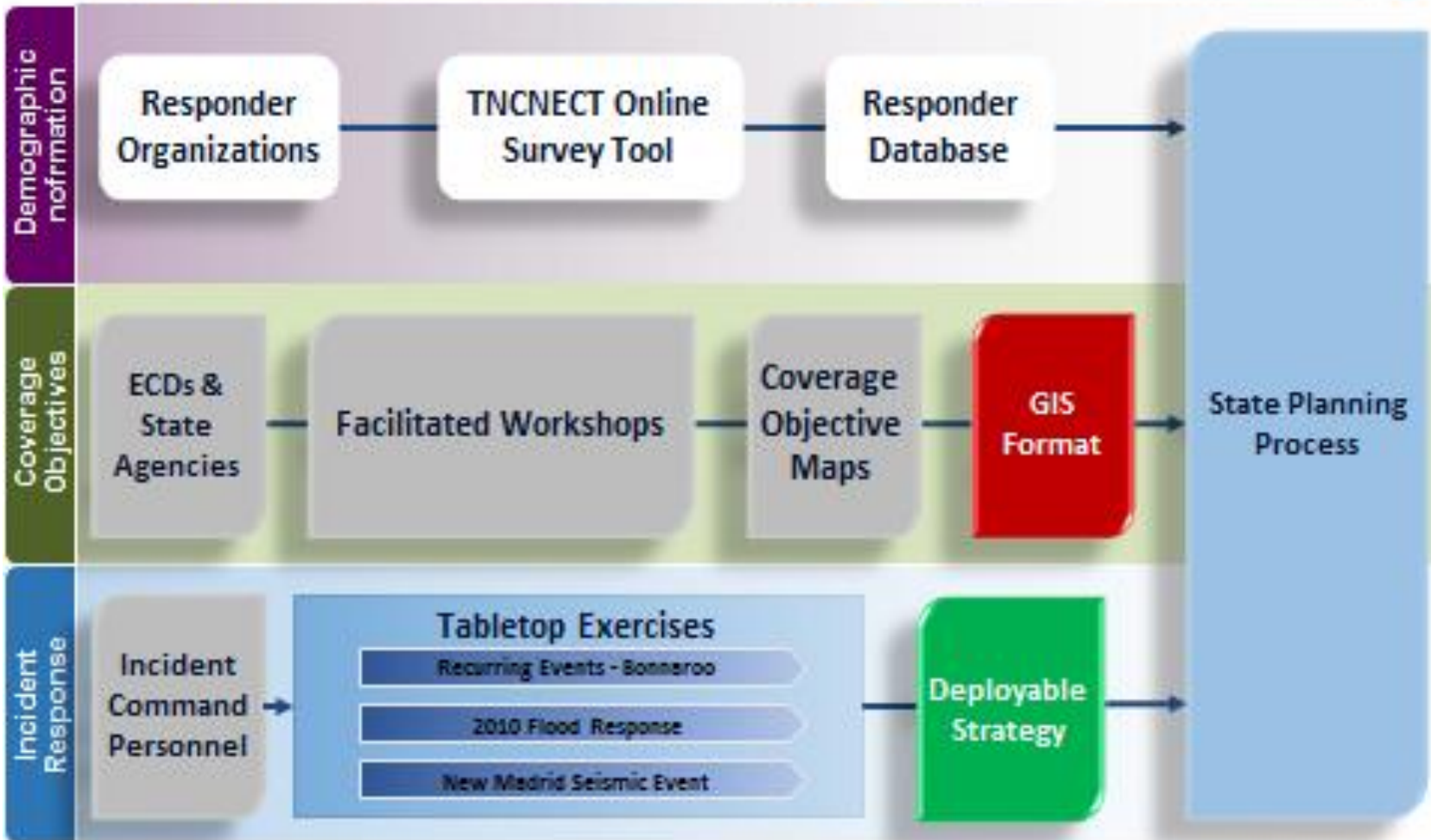
### Network Deployment

- Fixed Network
- Deployables
- User Devices

# Data Collection Methods



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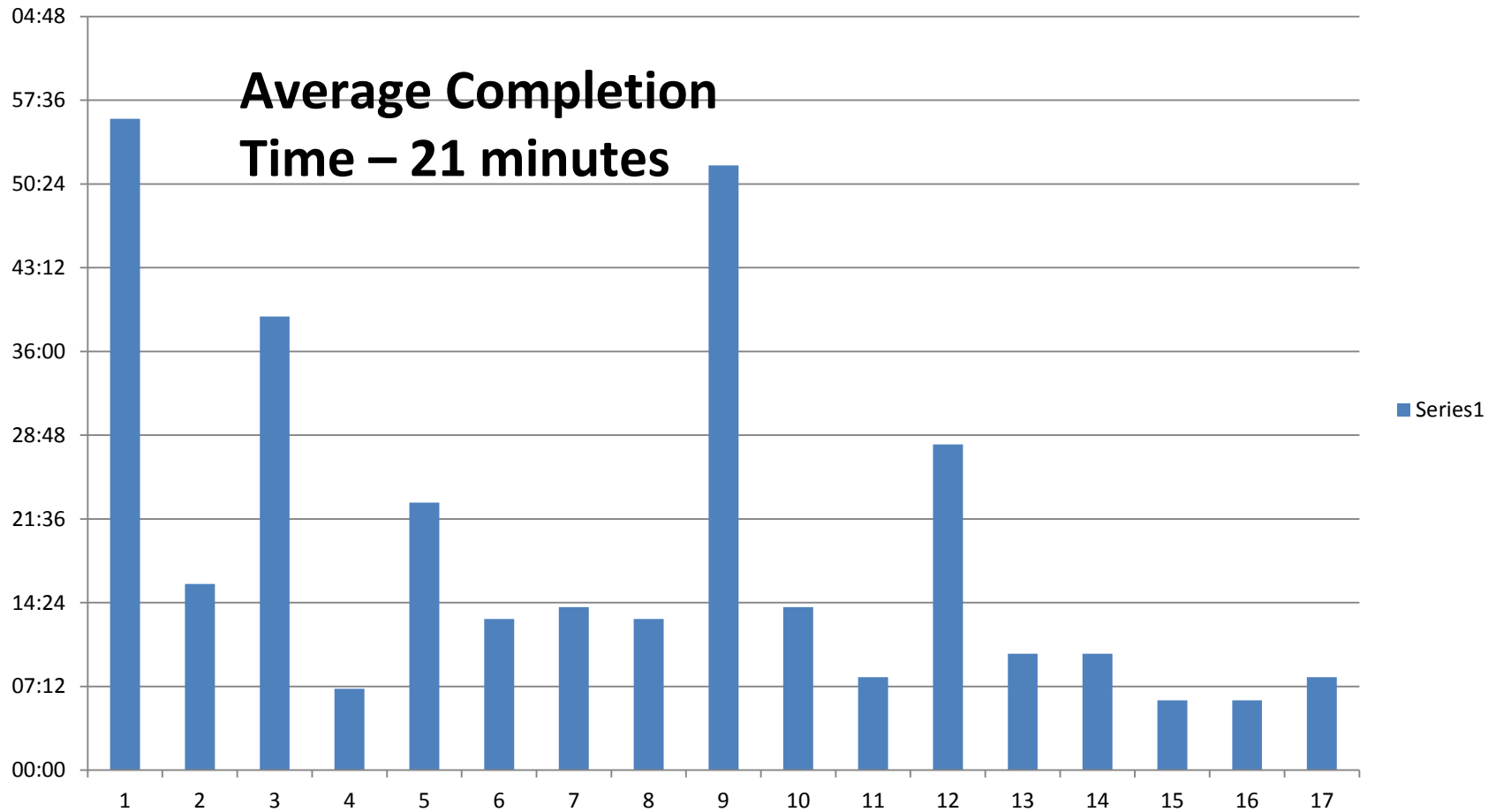


# Data Collection Demographics



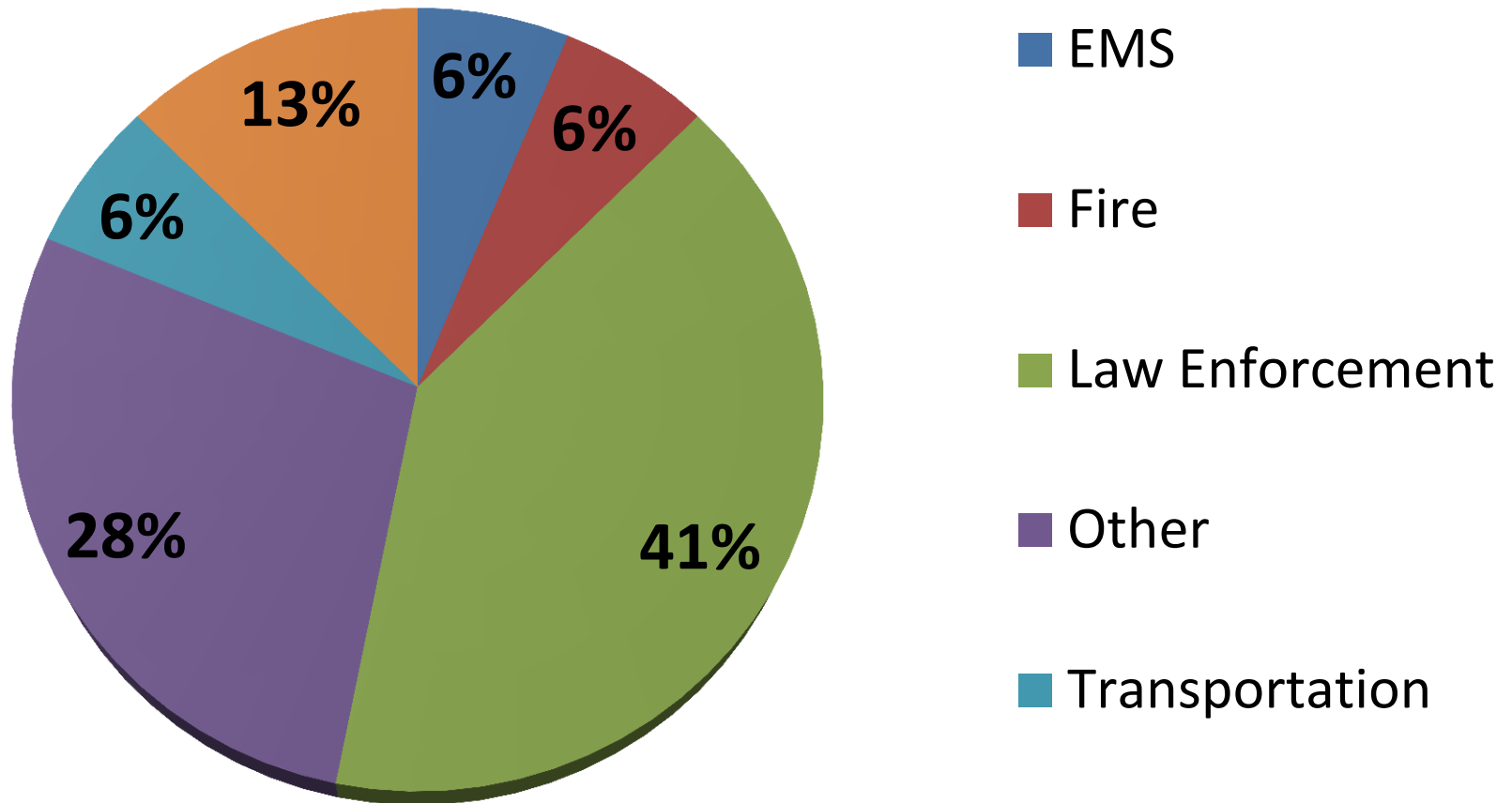
- [TNCNECT Online Survey](#)
- 36 Questions
- Modeled on Best Practices
- Demographics Database
- Analytics

# Demographic Information Analytics





# Demographics Responding Organizations



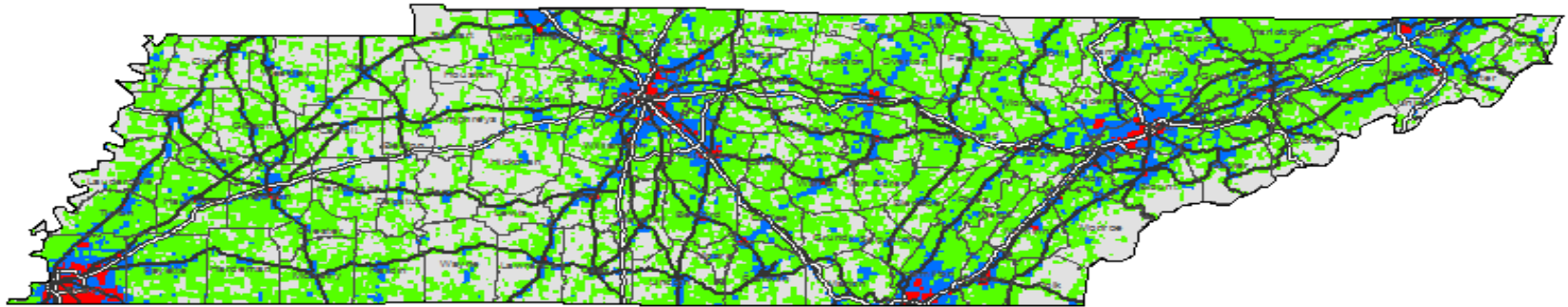


# Demographics Survey Analytics

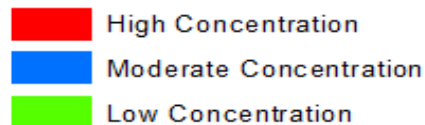


- Organizations 17
- Full Time Employees 6,066
- Data Devices 8,348
- Devices/User 1.4
- Data Usage 6.3 GB/mo.
- Cost/Device \$39/mo.

# Initial Coverage Objectives for Tennessee



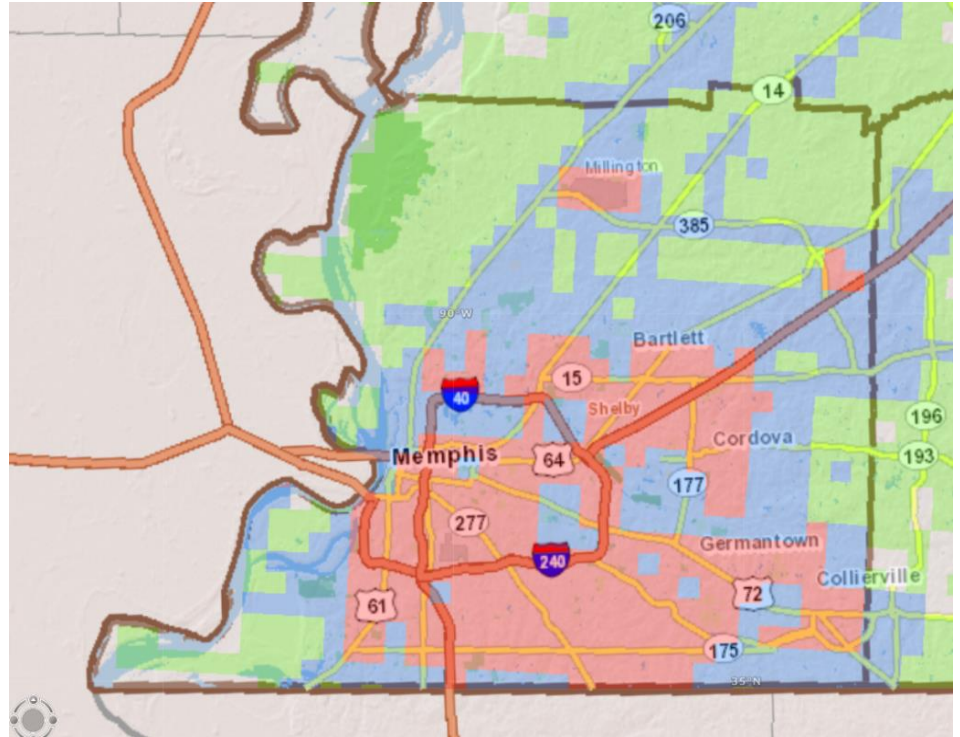
- Employee counts for LE, Fire, EMS agencies
- Public Safety / High Risk Areas of Interest
- US Population
- Developed Areas / Buildings (Land Use)
- Roadways
- Calls for Service Data



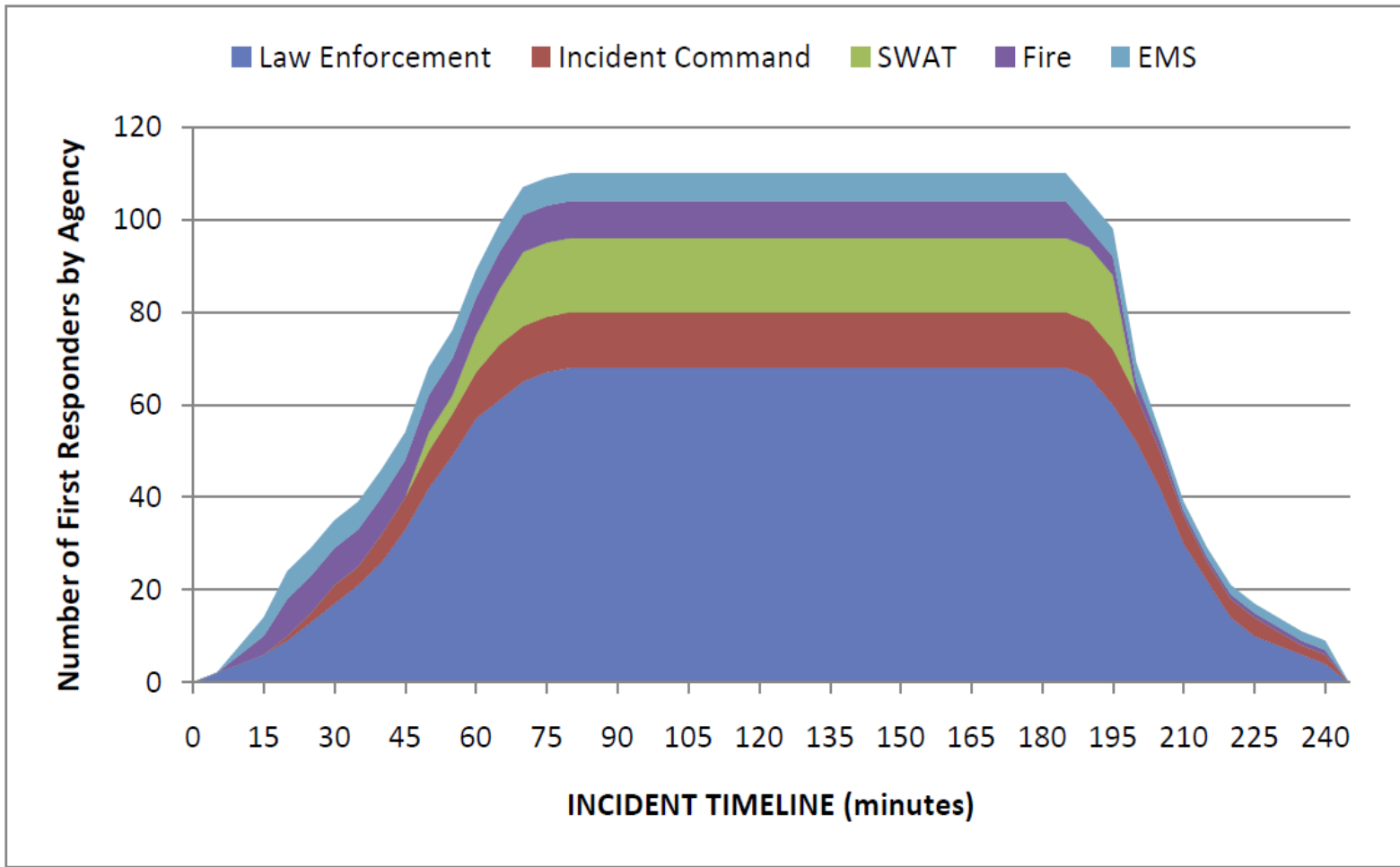


# ECD & State Agency Workshops

- End user local knowledge
- Tourist/Recreational Areas
- Evacuation routes
- Large Temporary Venues
- Mass Transit Routes
- Highly Navigable Waterways
- Other



# Incident Response – Tabletops



**Leverage PSCR Models for Data Calculations**



# Sample Prioritization Factors

1. → Population Density—choose <u>one</u> for each county	Risk
Dense Urban	Very High
Urban	High
Suburban	Medium
Rural-Suburban	Medium
Rural	Low
Frontier	N/A

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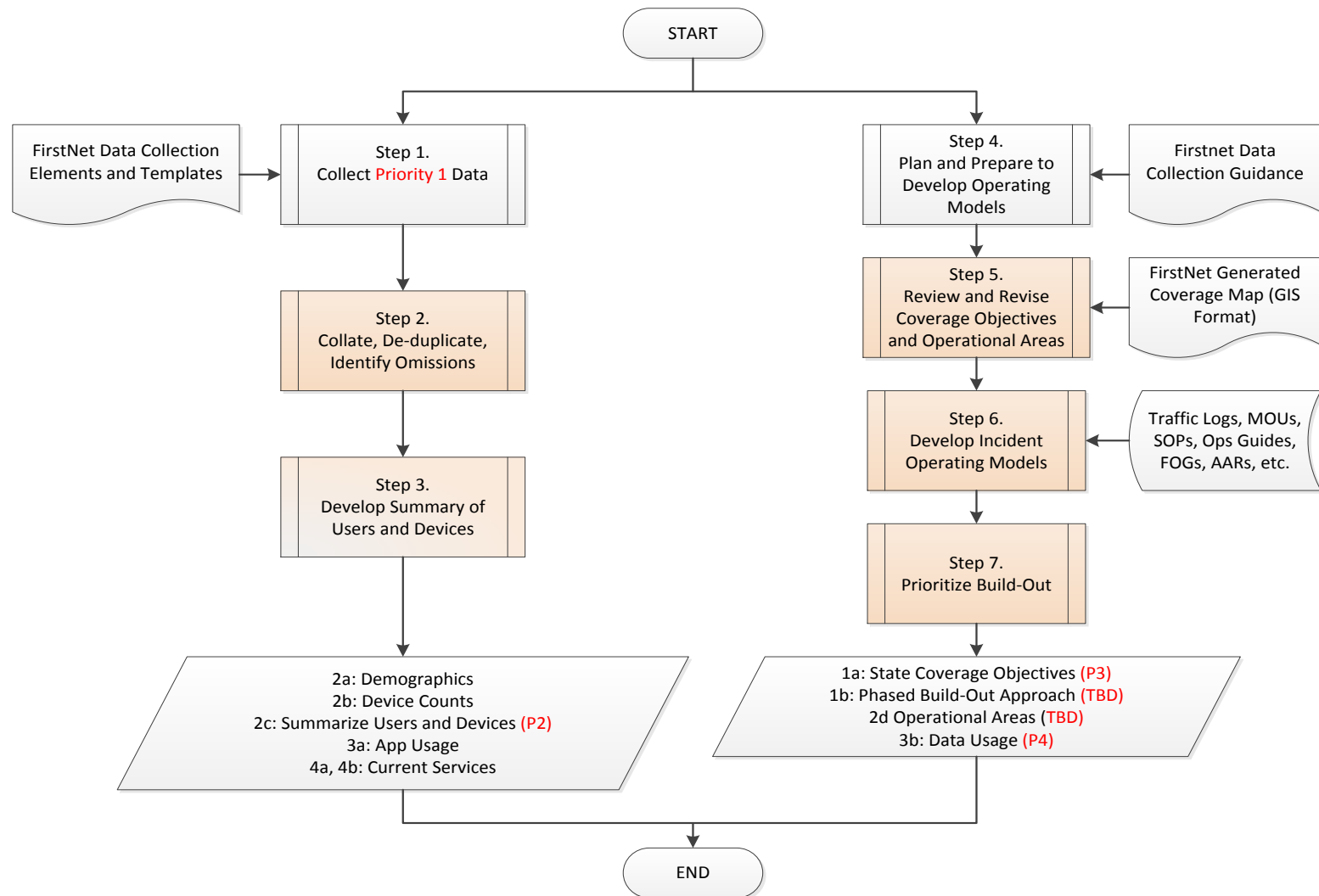
2. → Borders and Ports—Rate Each as follows: -Very High, High, Medium, Low, Very Low, None	Description
International Border/Port(s) of Entry	National Border, State Border, Sea Ports, International Airports

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3. → Critical Infrastructure—Rate Each as follows: -Very High, High, Medium, Low, Very Low, None	Description
Military	Bases, facilities, infrastructure, weapons depots
Space	Space centers, launch facilities
Energy Infrastructure	Energy Production, Transport, Distribution
Public Safety Infrastructure	PSAPS, Operations, Network Infrastructure
Government	Continuity of Operations, Continuity of Government
Transportation	Major highways and routes, railroads, airports, heliports, intra-modal, water navigation routes

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# Defined Data Collection Process





# Discussion

