



# FirstNet<sup>®</sup>



## **FirstNet & NG9-1-1**

*The Future of End-To-End Public Safety Communication*

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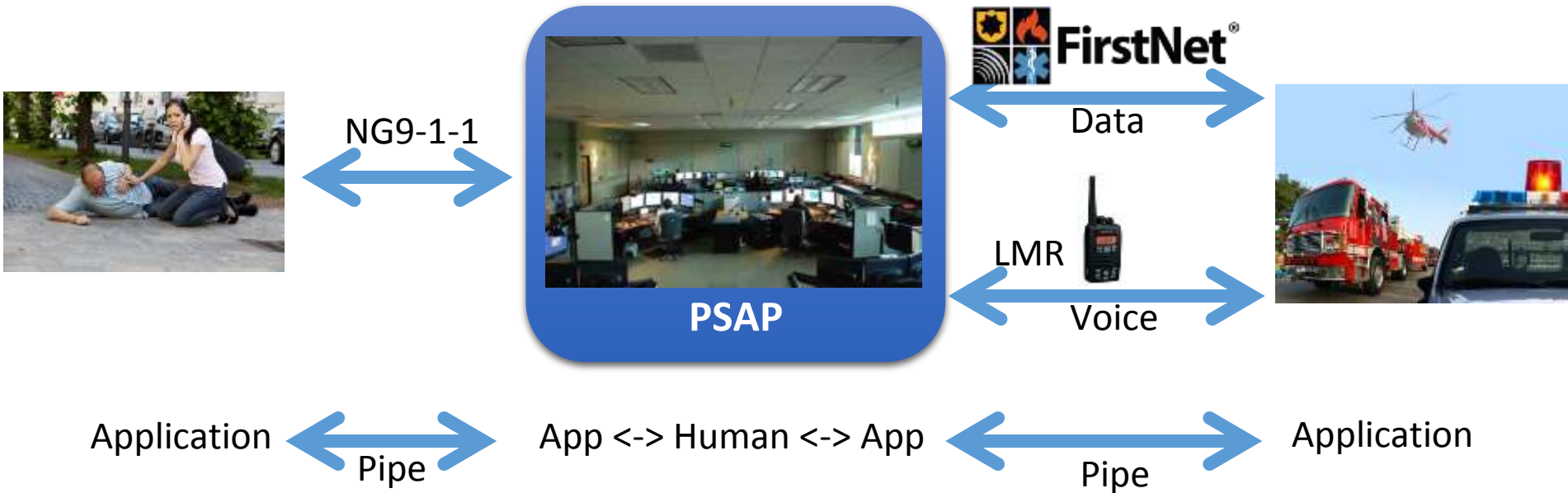
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# FirstNet & Next Generation 9-1-1

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- **Integration between FirstNet and NG9-1-1 is a critical in order to achieve success for public safety.**
- **NG9-1-1 and FirstNet represent the two halves of public safety request and response. The PSAP is the nerve center in the middle.**
- **PSAPs will be more than simply call taking or dispatching centers.**
- **The use of standards based, non-proprietary approach is important.**

# Basic Architecture

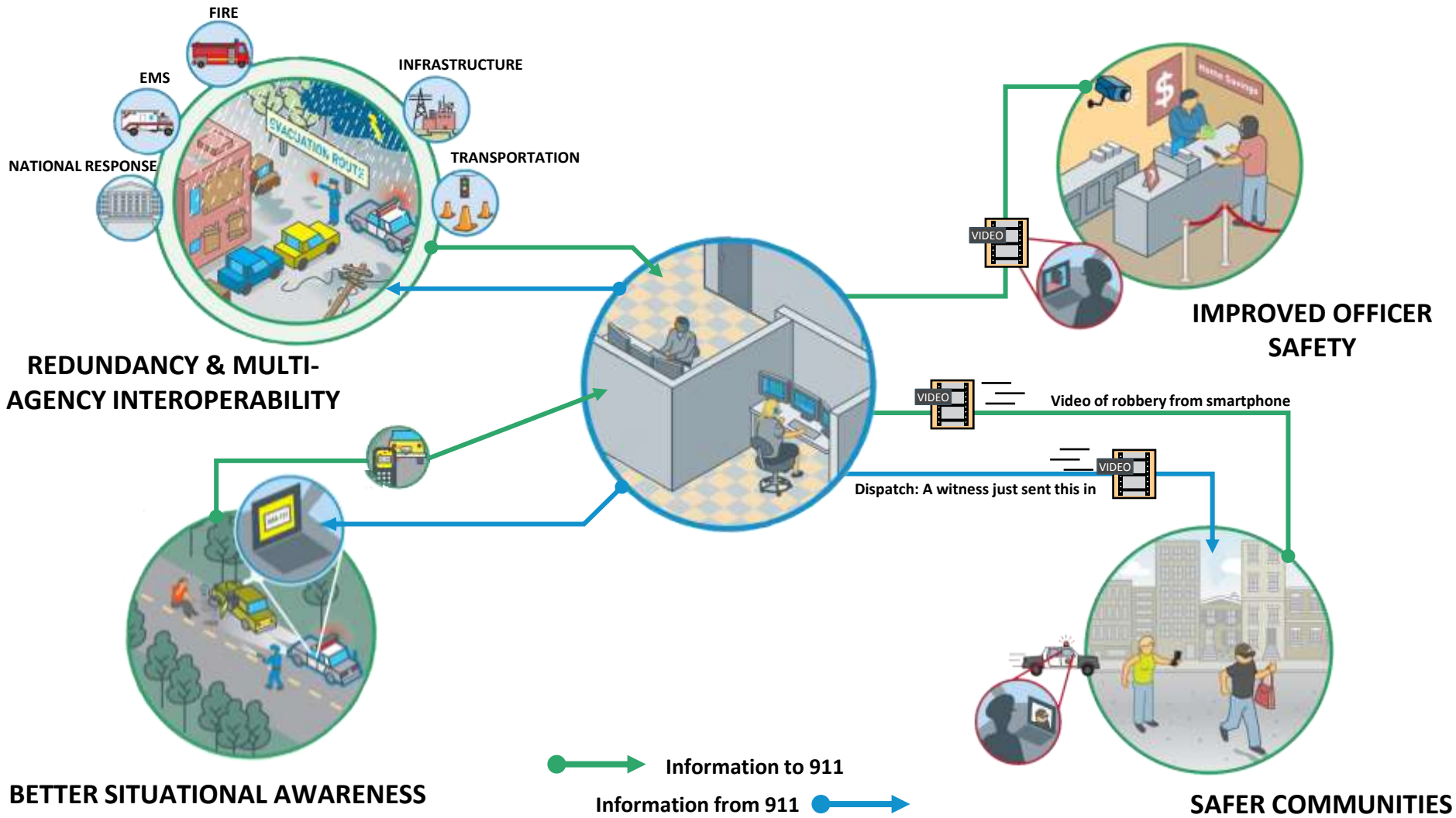


The **PSAP** Integrates **NG911** and **FirstNet**

## FirstNet Shared Goals With NG9-1-1

- Technology Modernization: Both represent efforts to update voice centric legacy systems to IP based architecture to allow telecommunicators and first responders to leverage information in multiple media formats
- National Focus: Both aim for broadband connectivity in urban, rural, remote communities
- Improved Emergency Response: Both seek to enhance communications and coordination of responses to requests for public safety assistance
- Planning & Governance: Both require planning and governance to ensure successful deployments

# Scenarios and Goals for the Continuum of PS Response



# Questions for the Future

- Data Interoperability, Standardization and Interchange
  - NG911 -> PSAP -> Responder
  - NG911 -> PSAP -> ESINET -> PSAP -> Mutual Aid Responder
  - Responder ->PSAP -> ESINET -> PSAP -> Mutual Aid Responder
  - VHS or Beta
- What technology is needed in a PSAP to open a photo or video, make a decision on its value and potentially send it to a responder or save it to an archive as evidence?
- What Standard Operating Procedures, Multi-Disciplinary Planning and training is required to enable the “Telecommunicator of the Future”

# How Do We Get There

- Define the Data Interchange that must exist within a PSAP to ensure that a call for service artifact can be received from NG911, processed by the PSAP and sent to a First Responder.
- Prepare the PSAP to make this exchange with technology and standard operating procedure
- Integrate NG911 to the PSAP
- Integrate FirstNet to the PSAP
- Train and Equip the Telecommunicators
- Launch the service



# NG9-1-1 Security

- With advancement of technology comes an increased threat of infiltration and exploitation of the system
- NG9-1-1 systems and ESINets will be vulnerable to the same threats as existing IP networks and systems
- Must consider shared architectures and approach
- Training and awareness are important considerations
- Our people, not just the equipment, are key
- There are resources “out there”
  - TFOPA work underway
  - NIST, US-CERT, DHS all have products available

# *What is the Common Denominator During an Emergency?*

***ALL Emergencies are LOCAL.***

***Interoperability of both voice and  
data services is critical as incidents  
unfold and expand.***

***Next Generation services can  
provide that interoperability***



# NG9-1-1 Transition

*Evolution* not Revolution

