



LTE Technology Provides a Rich Capability  
Set for the Transport Network

Interoperability will be Achieved Through

Defining a Complete System Architecture  
&

Implementing Effective Governance & Policy

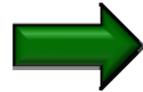
How to Ensure Nationwide Interoperability for  
Public Safety Broadband  
Utilizing  
LTE 4G Technology  
March 4, 2011

Dr. Dennis Martinez  
Chief Technology Officer  
Harris RF Communications Group

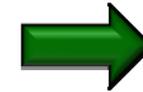
# System Evolution – Roadmap for Migration Addressing Operability & Interoperability



Today



Mid-Term



Long -Term

## Multiple Technologies Disparate Networks

LMR & Paging  
Systems



Commercial  
Cellular Data  
Services

## Hybrid Network

Legacy LMR &  
Paging Systems



Voice  
Interoperability

700 MHz Public  
Safety LTE  
Network



- Roaming
- Asset Leverage
- Services

Commercial  
Cellular Data  
Services  
(3G & 4G)

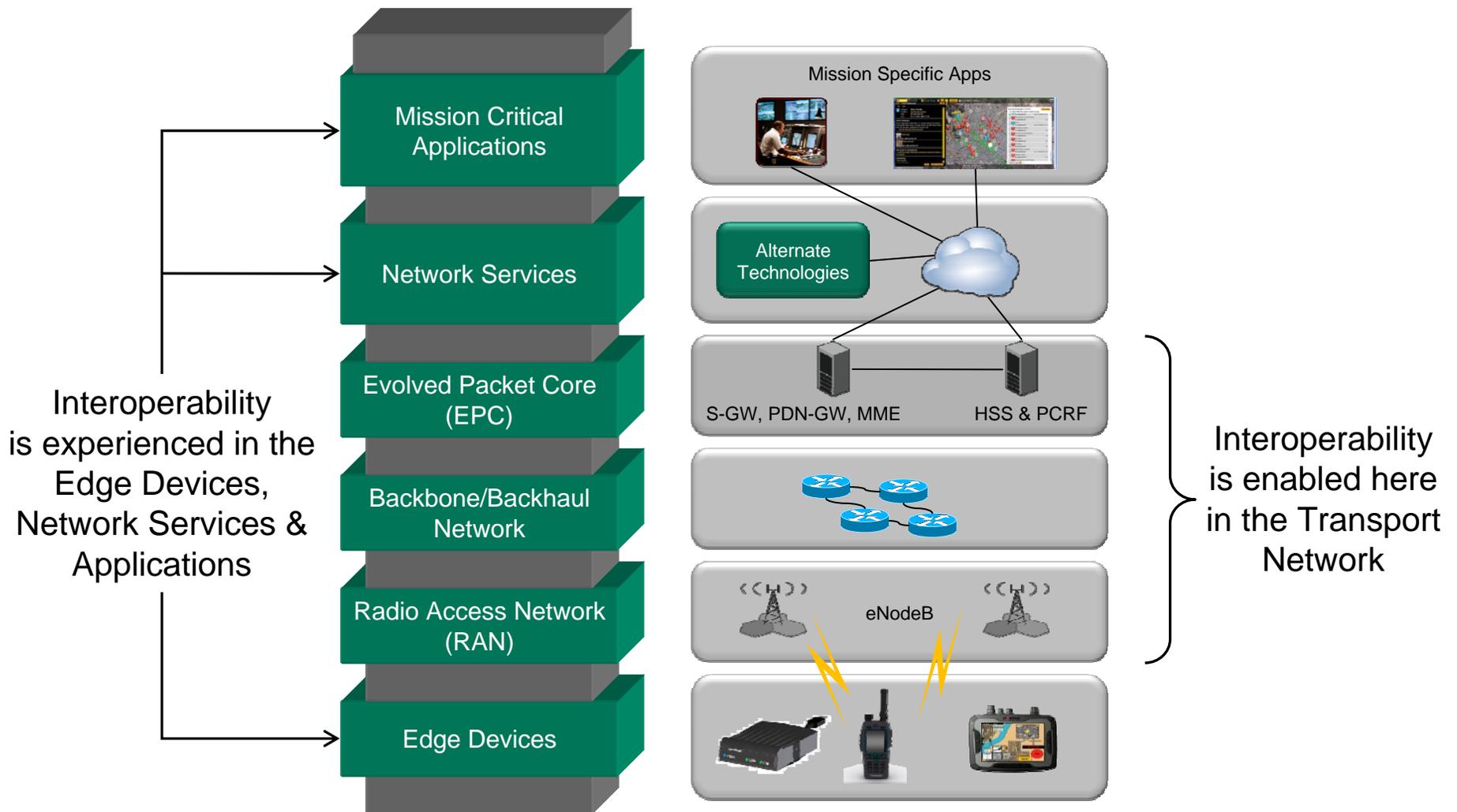
## Converged Network

National Public Safety LTE  
Network Supports:

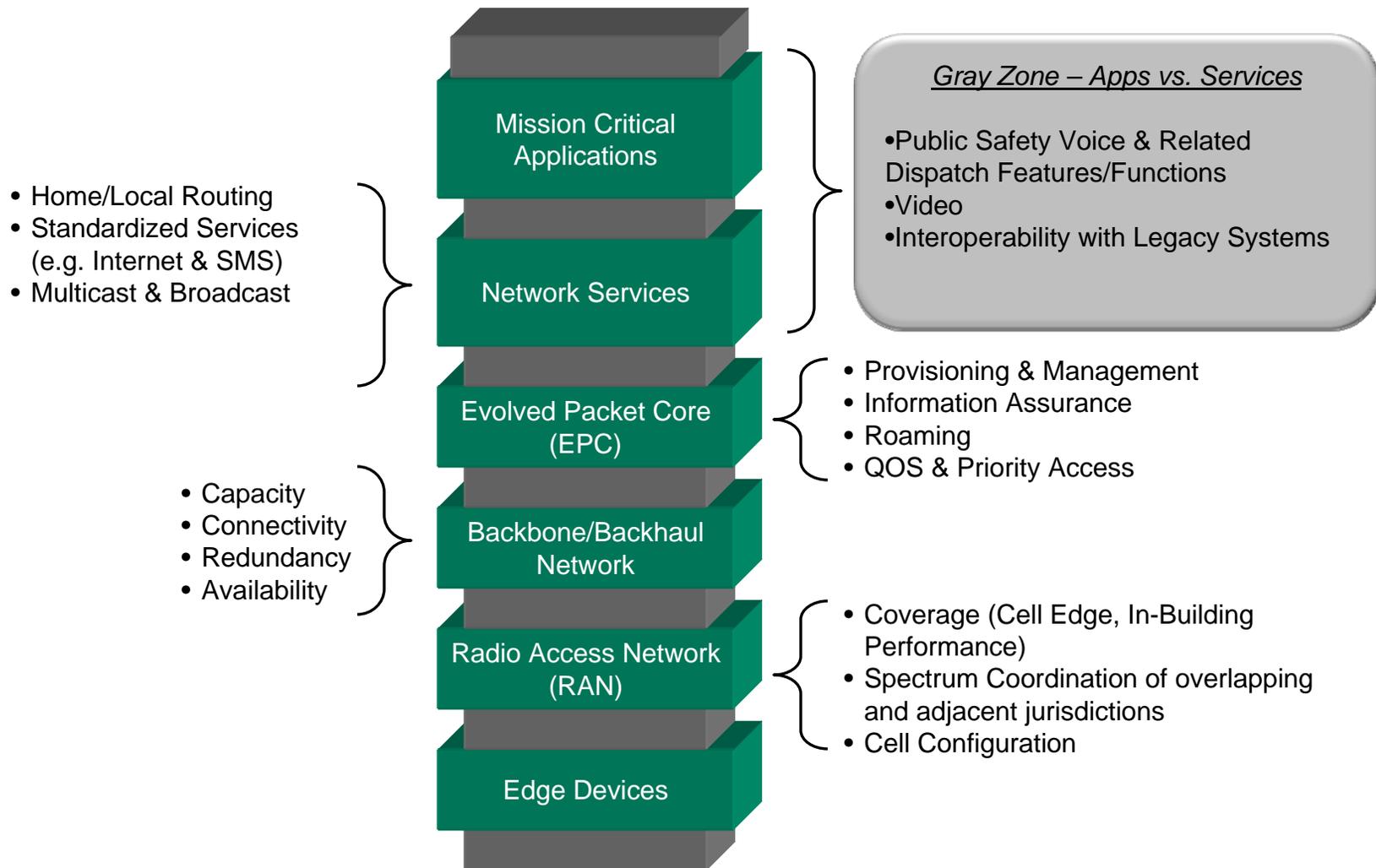
- Mission Critical Voice & Data
- Nation-wide Roaming
- Public Safety Grade – Availability & Service Levels
- Interoperability with Relevant Alternate Technologies



# Interoperability Spans the Whole Vertically Integrated Solution



# Interoperability Domains



# Sample Template for Building an Interoperable Network of Networks



## Regional Scope

## National Scope

