



# Hampton Roads Interoperable Communications System

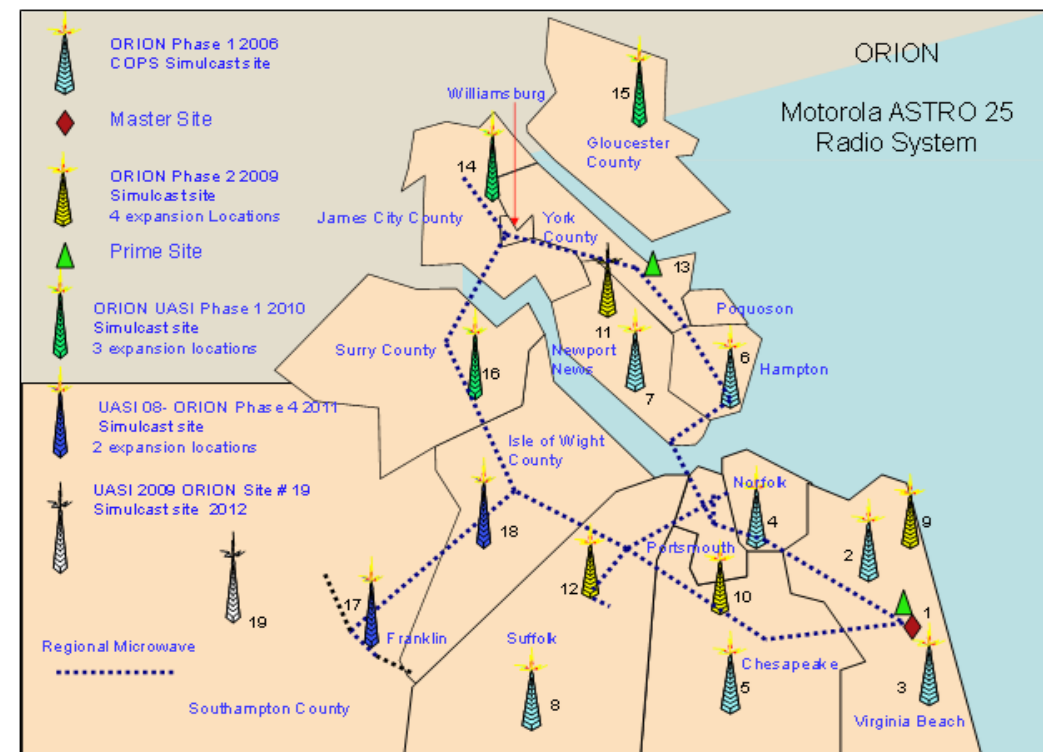


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# Interoperability in Hampton Roads

Interoperability is a communication lifeline that connects users in an emergency

- In 2005, Hampton Roads was on the forefront of addressing this critical need of first responders when they envisioned the Overlay Regional InterOperability Network (ORION).
- The buildout was funded by Homeland Security Urban Area Security Initiative (UASI) grants.
- Originally designed for the 7 cities of Chesapeake, Hampton, Newport News, Norfolk, Portsmouth, Suffolk, and Virginia Beach.



# ORION Challenges

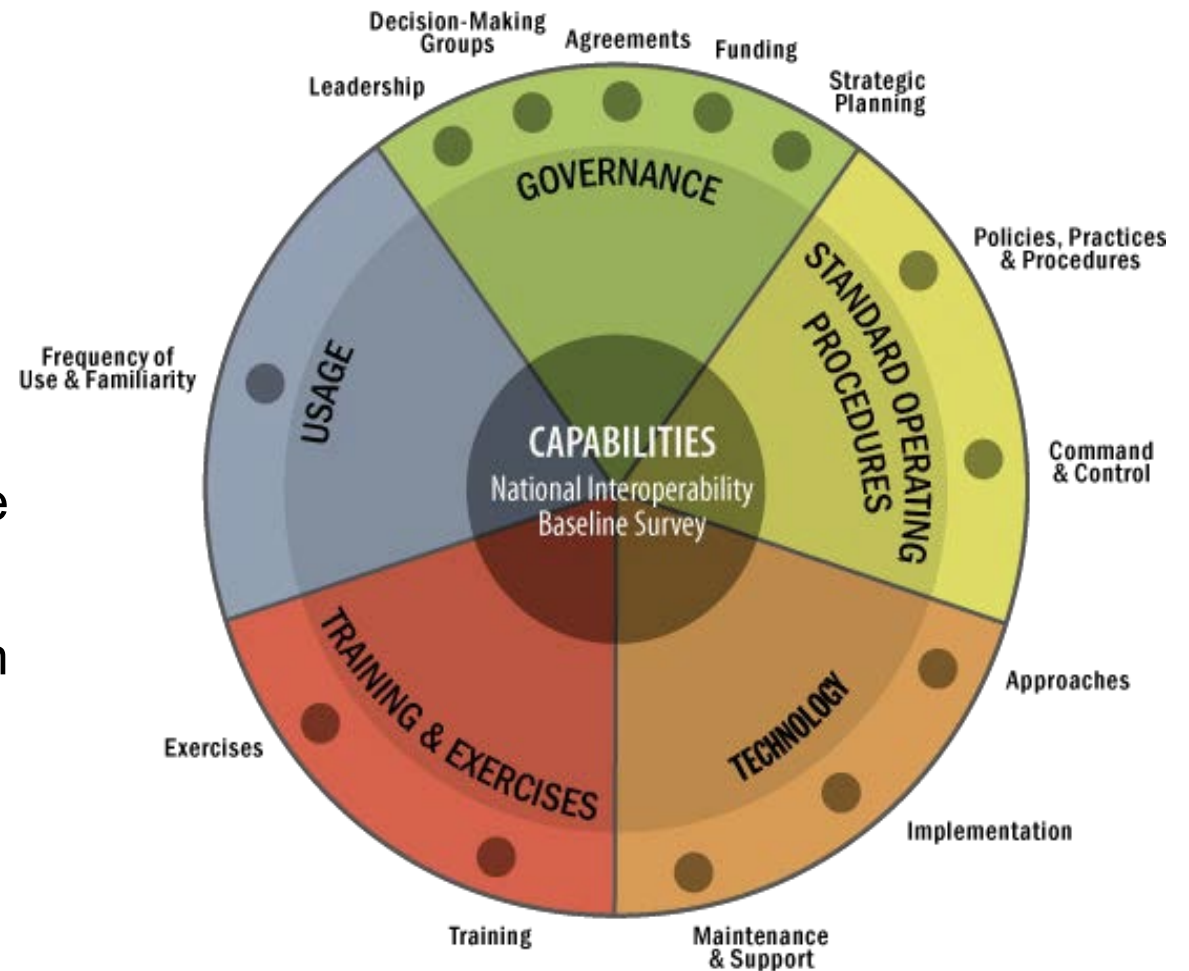
***2019 ORION  
Stakeholders  
provided all data  
which is the  
foundation of the  
Assessment***

- Need additional capacity
- Need improved coverage (north and west)
- Need portable coverage
- Need to own frequencies
- Need sustainable financial model
- Need reliable maintenance by all localities
- Need structured governance
- Need user training

# Strategic Plan

## 2021 Hampton Roads Interoperability Planning

- Develop a clearly articulated vision and mission for Interoperability
- Develop the goals necessary to prioritize that vision and mission
- Develop technology implementation plan
- Develop governance implementation plan
- Develop costs and funding models



**Solution that Benefits all Hampton Roads jurisdictions**

# Recommended Interoperability Approach

## Hampton Roads - Integrated Regional Interoperable Systems

- Leverages existing jurisdiction's infrastructure
- Leverages existing jurisdiction's portable coverage footprint
- ISSI Technology connects Hampton Roads jurisdictions
- Provides seamless interoperability throughout Hampton Roads
- Provides interoperability with State and Federal partners
- Leverages regional financial resources
- Creates structured maintenance
- Creates structured governance & training

*HR-IRIS provides a sustainable interoperability solution, benefiting all Hampton Roads jurisdictions.*

# HR-IRIS Advantages for Region

## HR-IRIS Basic

- System of Systems **Interoperability**
- Consistent support and maintenance
- Provide Redundancy / Backup
- Secured frequencies (800MHz) and improved capacity
- Improved infrastructure coverage
- **Seamless Roaming - Interoperability**

## HR-IRIS Enhanced

- System of Systems **Interoperability**
- Consistent support and maintenance
- Provide Redundancy / Backup
- **Enhanced** infrastructure capacity (800/700MHz)
- **Enhanced** infrastructure coverage (core cities)
- **Seamless Roaming – Interoperability**
- Support Virginia Port Authority – Capacity & Coverage
- Support State & Federal Agencies – Capacity & Coverage

# HR-IRIS Costs & Funding Approach

## ➤ Funding Methodology

- ✓ Establish equitable jurisdiction cost model
  - Per Capita
  - Per Unit
  - **Blended (60% / 40%)**
- ✓ Modified based on participation
- ✓ Offset by grant funding

## ➤ Cost Breakdown

- ✓ Initial Implementation
- ✓ 10 Year Maintenance

JURISDICTION / AGENCY	HR-IRIS Basic		HR-IRIS Enhanced	
	Implementation Value	10 Year Maintenance Value	Implementation Value	10 Year Maintenance Value
	\$8,500,000.00	\$1,500,000.00	\$13,300,000.00	\$2,900,000.00
Chesapeake	\$ 1,096,112	\$ 193,432	\$ 1,715,094	\$ 373,968
Franklin	\$ 28,868	\$ 5,094	\$ 45,171	\$ 9,849
Gloucester County	\$ 143,735	\$ 25,365	\$ 224,903	\$ 49,039
Hampton	\$ 1,016,434	\$ 179,371	\$ 1,590,420	\$ 346,783
Isle of Wight County	\$ 94,026	\$ 16,593	\$ 147,123	\$ 32,079
James City County	\$ 297,093	\$ 52,428	\$ 464,863	\$ 101,361
Newport News	\$ 1,115,375	\$ 196,831	\$ 1,745,234	\$ 380,540
Norfolk	\$ 1,061,359	\$ 187,299	\$ 1,660,715	\$ 362,111
Poquoson	\$ 58,998	\$ 10,411	\$ 92,314	\$ 20,129
Portsmouth	\$ 424,807	\$ 74,966	\$ 664,698	\$ 144,934
Smithfield	\$ 26,105	\$ 4,607	\$ 40,846	\$ 8,906
Southampton County	\$ 55,958	\$ 9,875	\$ 87,557	\$ 19,091
Suffolk	\$ 359,077	\$ 63,367	\$ 561,850	\$ 122,509
Surry County	\$ 21,579	\$ 3,808	\$ 33,765	\$ 7,362
Virginia Beach	\$ 2,025,526	\$ 357,446	\$ 3,169,352	\$ 691,062
Williamsburg	\$ 68,883	\$ 12,156	\$ 107,781	\$ 23,501
Windsor	\$ 9,261	\$ 1,634	\$ 14,490	\$ 3,160
York County	\$ 546,210	\$ 96,390	\$ 854,658	\$ 186,354
Eastern Shore	\$ 3,373	\$ 595	\$ 5,278	\$ 1,151
FBI	\$ 4,497	\$ 794	\$ 7,037	\$ 1,534
Fort Eustis/Langley	\$ 15,741	\$ 2,778	\$ 24,630	\$ 5,370
Matthews County	\$ 1,124	\$ 198	\$ 1,759	\$ 384
Norfolk Airport	\$ 12,368	\$ 2,183	\$ 19,352	\$ 4,220
Nightingale	\$ 1,124	\$ 198	\$ 1,759	\$ 384
Regent	\$ 5,622	\$ 992	\$ 8,796	\$ 1,918
Riverside Health	\$ 1,124	\$ 198	\$ 1,759	\$ 384
USCG	\$ 5,622	\$ 992	\$ 8,796	\$ 1,918
<b>TOTALS</b>	<b>\$ 8,500,000</b>	<b>\$ 1,500,000</b>	<b>\$ 13,300,000</b>	<b>\$ 2,900,000</b>

**Interoperability succeeds when the whole community contributes!**