

STATE OF OHIO
MARCSIP Business Plan/Rollout
 April 4, 2013 – Local Government Officials Conference Columbus, Ohio

SHARED COMMUNICATIONS SERVICES FOR OHIO PUBLIC SAFETY in the 21st Century
 SHARED SERVICES—Saves Money, Maximizes Interoperability, SAVES LIVES




MARCS TODAY

- **Statewide, robust, stable platform**
 - Over 40,000 radios activated
 - *Originally designed for 8,500*
 - 700 user agencies
 - *Original design – 8 agencies!*
- **Solid Infrastructure**
 - 218 towers statewide
- **Reliability maintained**
 - 22,160,009 minutes airtime
1/1/12 – 1/1/13
 - 95,662,823 push-to-talks
- **Continued high performance**
 - Average Grade of Service – 99.89%
 - Maximum hourly Utilization – 57.3917



MARCS CHALLENGES

- **ECONOMICS**
 - 1337 Radio Systems in Ohio results in duplicative spending, reduces/negates interoperability
- **CAPACITY**
 - Current MARCS platform service has met growth needs but is out of Radio IDs.
- **LIFECYCLE SUPPORT**
 - Current MARCS platform – core parts availability is a critical issue.
- **NARROWBANDING**
 - Federal mandate means many agencies are faced with large scale upgrades – MARCS needs to be a viable option, and is!



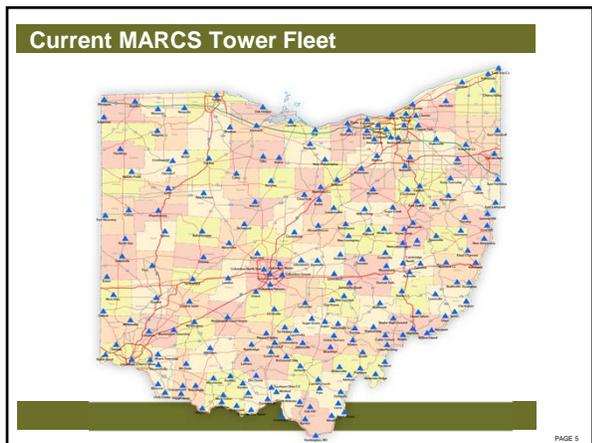


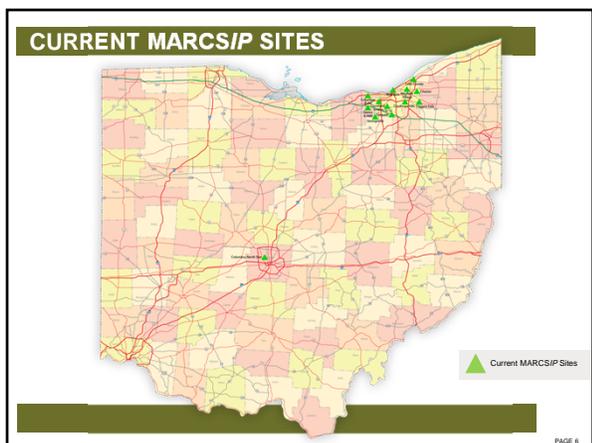

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MARCS'S SOLUTION

- **STATEWIDE PROJECT 25 STANDARD UPGRADE**
 - Project 25 upgrade to improve interoperability and eligibility for future federal grants.
 - Upgrade is fully P-25 compliant, meeting all standards, including capability of migration to P-25 Phase 2.
- **SYSTEM OF SYSTEMS**
 - Reduce the number of autonomous infrastructures by connecting and sharing network capacity. System capacity grows to 128,000 IDs.
 - #1 Strategic and Tactical Goal, Ohio Statewide Communications Interoperability Plan (SCIP)
- **RANK ORDER PHASED**
 - Phases will be implemented first in areas of critical need.
- **REUSE OF EXISTING HARDWARE**
 - Reuse of existing hardware has been emphasized to maximize cost savings.





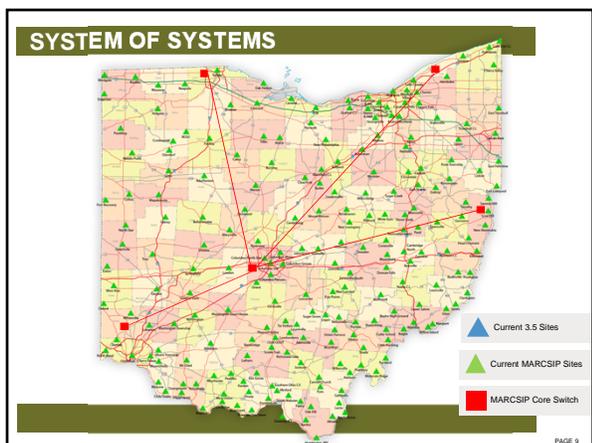


Where most needed first!

- **Immediate Needs**
 - Sandusky County
 - Fayette County
 - Morrow County
 - Jackson County
- **Additional Zone Core**
 - Jefferson County
- **Heavy Local Use Sites**
 - Northwestern Ohio
- **BIDP Sites**
 - Ottawa & Erie Counties
- **Institutions**
 - Lima, Toledo, Marion, Marysville
- **Schools – to – PSAPs??**
- **Continued Rollout**
 - "Building the plane as we fly it!"







NPSBN

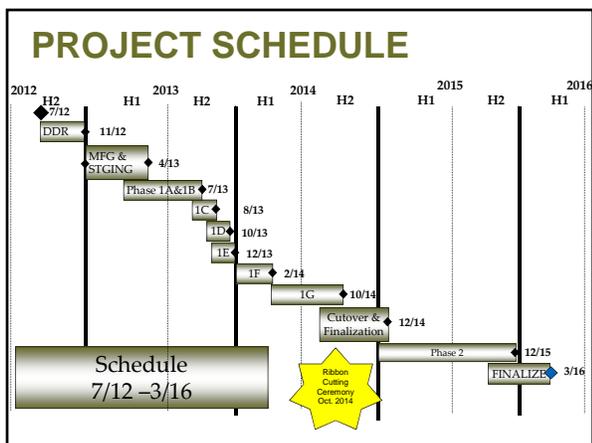
- Nationwide Public Safety Broadband Network
- Established by passage of the 2012 Middle Class Tax Relief and Job Creation Act of Congress
- \$7B "Startup" funding
- FirstNet Board Established
- \$125 M in grants from NTIA, starting in 2013
- Ohio's point of contact – OSIEC – J. Leutz, member
- Envisioned result – nationwide broadband network reserved for public safety
- Public/Private partnership envisioned
- More questions than answers @ this time!!



LTE OPTION INCENTIVE

- LTE Option bundled with P25 System
 - Core located at the SOCC
- 4 Remote Sites
- Motorola Push to Talk (MPTT)
 - Connection between Project 25 Voice System and LTE System
- Motorola VPN (MVPN)
- 90 Vehicular Modems
- 10 USB Dongles
- 50 Handheld Devices





MARCSIP Results

- **Statewide Project 25 Standard Upgrade**
 - Project 25 upgrade meets required eligibility for future federal grants.
- **System of Systems**
 - Reduce the number of autonomous infrastructures by connecting and sharing network capacity.
 - Meets Ohio SCIP Strategic Goal #1 and Tactical Goal #1.
- **Exponential Increases in Capability and Capacities**
 - Radio ID's up to 128,000
 - Talk path capacity
 - Portable radio coverage
- **The Bottom Line**
- ***Saves taxpayer's dollars – Maximizes interoperability – SAVES LIVES***



MARCSIP Partnership Tiers

- **Tier 1 – Basic Subscriber**
 - Purchase radios, pay annual maintenance fees
- **Tier 2 – Enhanced Local Infrastructure**
 - Local partner funds enhanced capacity/coverage
 - MARCSIP rebates 50% of costs via user fee rebate
- **Tier 3 – Connecting P-25 Zone Controllers**
 - Lucas & Butler Counties
- **Tier 4 – Sharing Core Resources**
 - County/Regional tower farms connected to MARCSIP Zone Controller – generates cost avoidance
- **Tier 5 – Shared Zone Controllers**
 - Lake/Cuyahoga & Jefferson Counties



MARCSIP Financing

- **COPS Funded**
 - Up to \$90,000,000.00
 - Approved by Controlling Bd. – 5/21/12
 - Upgrade Starts 7/1/12!
- **Debt Reduction**
 - Via maintenance fees from end users
- **Future Upgrades**
 - Software refreshes, TDMA (narrowbanding of 700 MHz)
 - Infrastructure – also via maintenance fees
- **Goal**
 - 50,000 additional radios (&/or radio proxies) on system within next five years, allowing current \$20/mo maintenance fee to remain stable



MARCSIP – Partnership Support

- Warren County Tier 4 Partnership
- Greene County Tier 2 Partnership
- Licking County Tier 2 Partnership
- Morrow, Fayette, Sandusky, Clinton, Clark
- Lake, Geauga, Cuyahoga
- Stark, Summit, Portage
- Butler, Lucas, Hamilton, Franklin
- Lake, Jefferson, YOU??



MARCSIP – Partnership Support

- Please help spread the word!
- Shared Services, 21st Century “System of Systems” concept critical to more effective governmental spending & public safety communications!
- *Please* do not consider a new radio system, or an upgrade to existing systems, or additional “interoperability band-aids” without considering and contacting MARCSIP!
- Outreach Points?
- Who/what are we missing?



MARCSIP - Discussion

- Questions?
- Answers!
- Follow-up
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- 2/17/52!!