



State Interoperability Executive Committee

April 9, 2024 9:00 am – 11:00 am



Agenda



- Welcome & Introduction
 - Review agenda
 - Member News and Information Roundtable
 - Approval of Feb. 13 meeting minutes
- WSP LMR Strategic Plan Tom Wallace
- SCIP Updates Bill Kehoe/Jon Lee
- SWIC Updates Jon Lee
- Carrier Update Carrier Representatives
- Good of the Order / Public Comment



Review Feb. 13 Minutes

Washington State Patrol Land Mobile Radio (LMR) Strategic Plan

Aligning Investments with Business Needs

April 2024

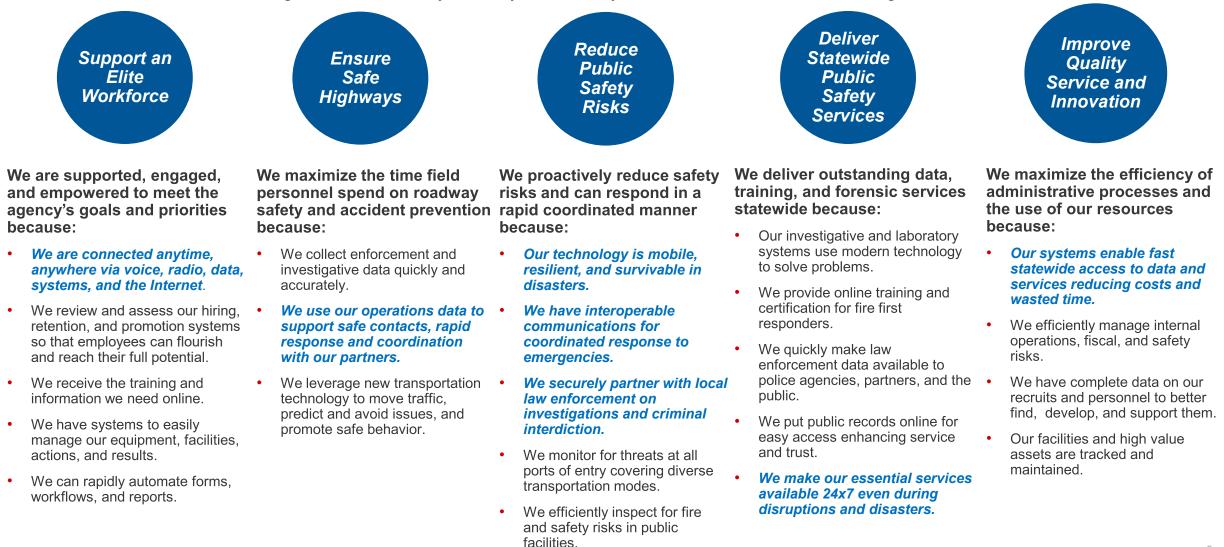






WSP's Technology Vision

WSP technology enables strategic planning, tactical efficiency and operational effectiveness while promoting transparent accountability and risk mitigation in the delivery of safety and security services to the citizens of Washington State.





WSP's LMR Technology Strategies Support Agency Outcomes

Technology Roadmap Strategies



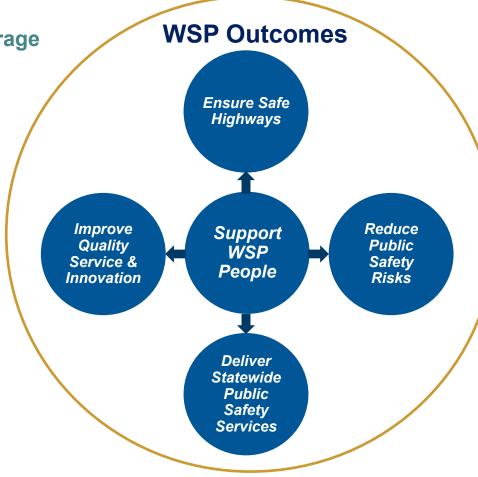
Increase Statewide Coverage

 Subscribers have maximum connectivity to dispatch and supporting users for safety and coordination.



Improve Reliability

- The subscribers will have a reliable LMR network in the event of a large-scale disaster.
- The state will have a sustainable lifecycle schedule to allowing planning and funding.
- System administrators will be able to troubleshoot and support the LMR network meeting industry standards and scalability.



Simplify Useability

- Subscribers use industry best practices channel nomenclature, making interoperability more scalable and sustainable
- Users are provided a standardized code plug allowing them to move across the state without the need for reprogramming
- Dispatchers can intuitively use dispatch consoles and associated tiles while providing emergency services support.
- All subscribers are trained to the same repeatable standards allowing confidence in the use and function of the tools provided



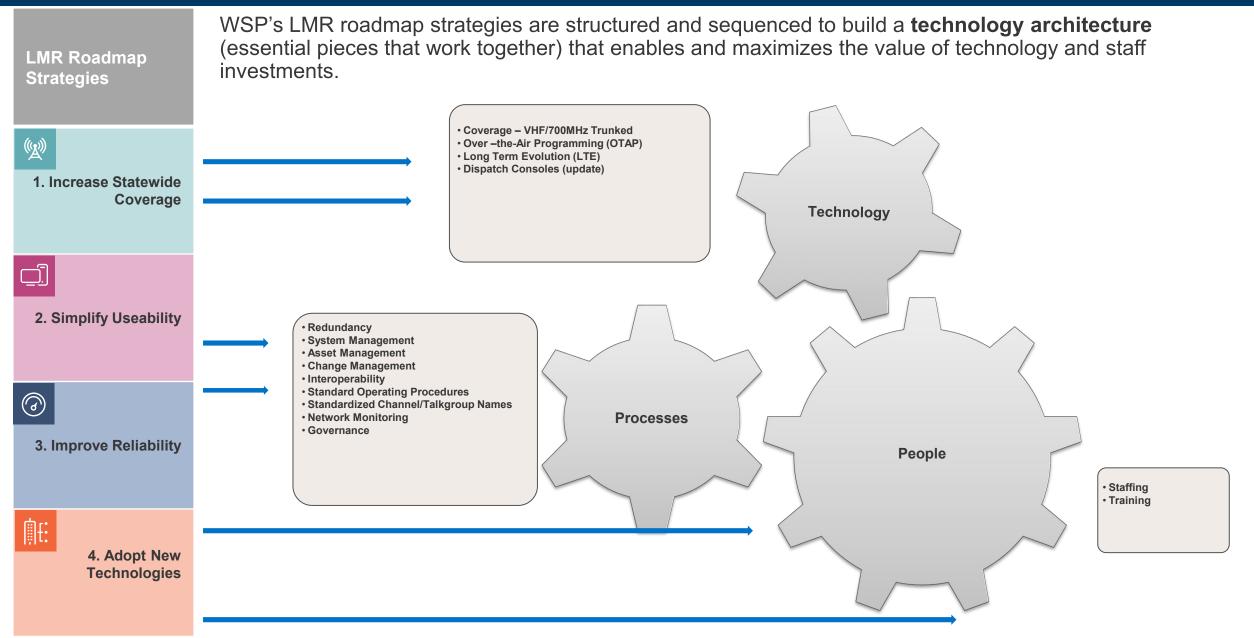
Adopt New Technologies

 Emerging technologies will be continually evaluated and implemented, allowing increased coverage, simplified useability, improved reliability, and reduction of operational costs.

Implementation Overview WSPLMR Strategic Plan

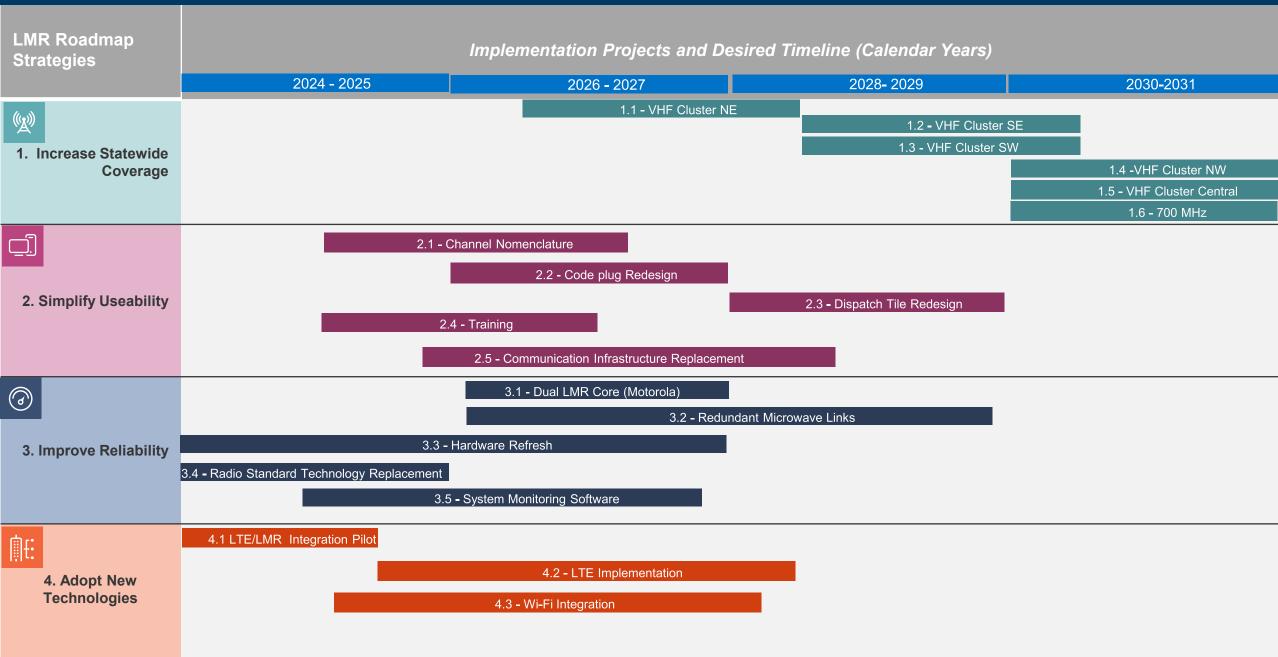
WSP LMR Strategic Plan – Implementation Overview





Washington State Patrol LMR Strategic Plan – Implementation Overview







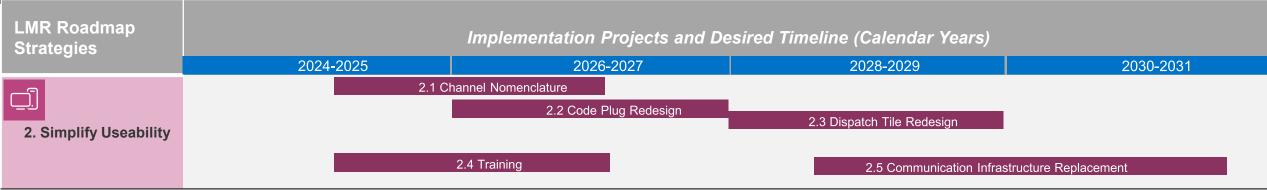
LMR Roadmap Strategies	Implementation Projects and Desired Timeline (Calendar Years)			
	2024-2025	2026-2027	2028-2029	2030-2031
المیں 1. Increase Statewide Coverage		1.1 - VHF Cluster NE	1.2 - VHF Cluster SE	
			1.3 - VHF Cluster SW	
				1.4 - VHF Cluster NW
				1.5 - VHF Cluster Central
				1.6 - 700 MHz

Strategy 1 ensures we have cost effective LMR coverage approaching the goal of 90% for mobiles. The prioritized installation/expansion of five regional VHF clusters will increase coverage in order of importance/return on investment. Strategy timeline is based on approved Decision Package beginning 25-27 Biennium.

- 1.1 VHF Cluster NE includes installation/expansion of fifteen VHF transmit (TX) and receive (RX) sites. The cluster will improve key areas for District 4. 1.1 is the preliminary step, demonstrating the viability of the strategy and the first financial leg funded gate in the roadmap.
- 1.2 VHF Cluster SE includes six VHF TX/RX sites. This cluster will improve key areas in D3 and D4 and continues the phased approach of VHF expansion in low coverage areas of the state.
- **1.3** VHF Cluster SW will be conducted simultaneously with 1.2 and includes fourteen VHF TX/RX sites. This cluster will improve key areas in D5 and D8.
- **1.4** VHF Cluster NW includes five VHF TX/RX sites to benefit D7 and D8 (currently benefits from some 700 MHz sites)
- **1.5** VHF Cluster Central includes ten VHF TX/RX sites (currently benefits from some 700 MHz sites)
- **1.6** 700 MHz expansion on the I-5 and I-90 corridors

Washington State Patrol LMR Strategic Plan – Implementation Projects

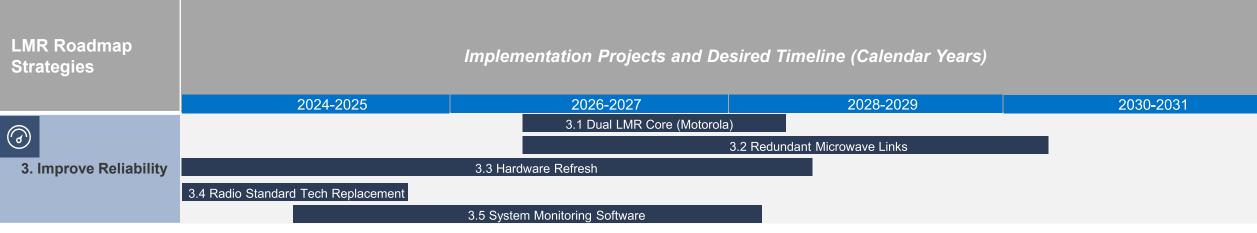




Strategy 2 builds on the other strategies to enable future technology support. Useability, Interoperability, and Scalability are key outcomes of this strategy. Internal restructure and formalization will enable ease of subscriber use (both internal and external) allowing increased support while reducing Total Cost of Ownership.

- 2.1 Channel nomenclature due to the complexities of inconsistent channel/talk group naming the WSP will incorporate the channel nomenclature defined within the APCO/NPSTC Standard Channel Nomenclature for Public Safety Interoperability Channels Standard.
- 2.2 Code Plug Redesign We will work with Allied agencies to reduce the complexity and duplications between partner agencies.
- 2.3 Dispatch Tile Redesign District tiles are at capacity and not able to incorporate additional technologies, such as LTE.
- 2.4 Training will address subscriber, dispatch, system administration and repeatable practices ensuring consistent statewide application.
- 2.5 LMR Infrastructure Replacement addresses end of life hardware such as consolettes.



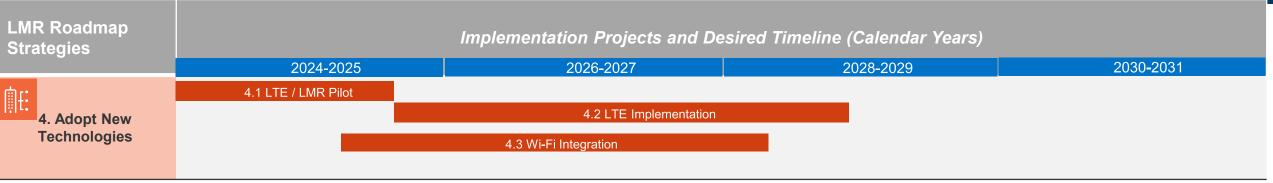


Strategy 6 recognizes an ongoing need to create administrative systems that work productively and consistently across the agency. Every WSP division has expressed needs for these systems. This strategy will ensure both reliability and useability into the future.

- 3.1 Invest in a geographically separated core. The separated core will provide system backup in the event of a failure of the primary core. The agency will engage in researching and procurement of a cloud-based core in support of the state's cloud initiative.
- 3.2 WSP will increase the microwave backhaul presence and design by implementing redundant microwave links to 29 existing and proposed paths, increasing its resiliency.
- 3.3 WSP will continue implementing funded projects for LMR Hardware Refresh through the end of the 25-27 biennium. This will complete the replacement of all Radio Base Stations, Alternative Power Units, and Microwave Radios at 100+ WSP radio sites.
- 3.4 WSP will continue to procure and deploy the funded project for replacement of all Motorola mobile and portable radios.
- 3.5 Implement and configure a Manager of Managers (MOM) capability for incorporating multiple monitoring systems into a highlevel management system. This capability will be increasingly important to facilitate effective network management.

Washington State Patrol LMR Strategic Plan – Implementation Projects



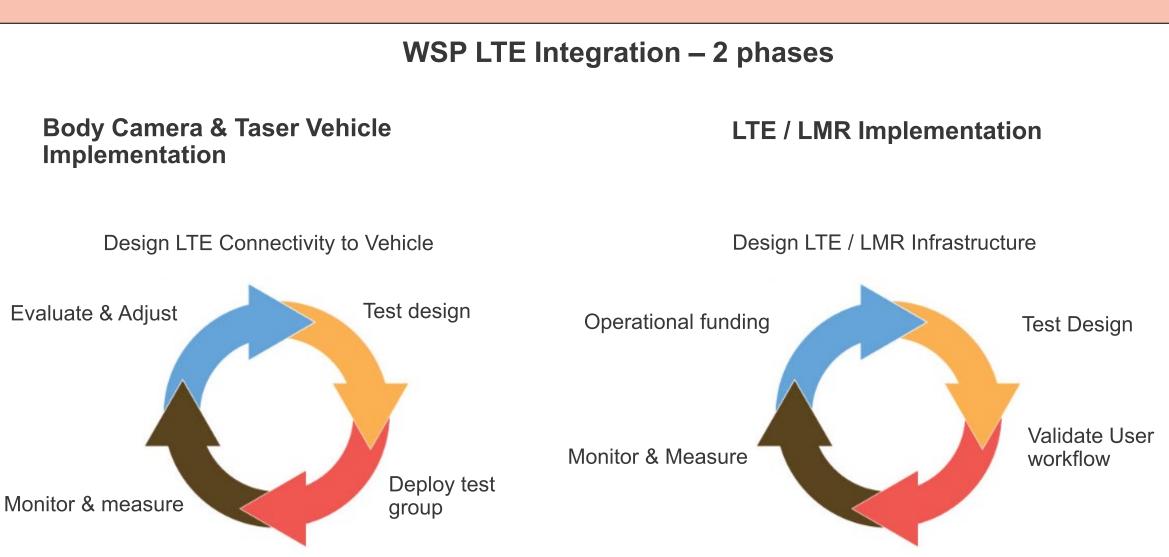


Strategy 4 will look to emerging technologies to further enhance coverage, useability, and reliability. Focus will continue to be Interoperability strategy, Cost of Ownership, and Return on Investments.

- 4.1 Long-Term Evolution (LTE) technologies in public safety use cases. We will continue to test, pilot, review capabilities, user workflows, and integration options to supplement the existing WSP LMR network (VHF and 700 MHz). Impacted stakeholders include subscribers, communications, and allied agencies.
- 4.2 Based on success and approvals, we will shift from pilot strategies to an implementation plan. Due to associated costs to both the LTE and LMR platforms, funding will be required for a phased implementation.
- 4.3 The current subscriber procurement includes Wi-Fi technology in both the mobile and portable radios. We will adopt the new capabilities in both platforms. Vehicles with routers, will extend coverage to portables within range where LMR coverage is poor. We will look to allow the subscribers to connect to local Wi-Fi (WSP, hospitals, schools, etc.).

WASHINGTON STATE PATROL

4. Adopt New Technologies



Deploy Test group







SCIP Updates





SWIC Updates

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Carrier Updates





Public Comment