MSU IT CAMPUS NETWORK UPGRADES

In alignment with MSU's 2030 strategic plan, MSU IT is developing a strategy to modernize MSU's network by investing in infrastructure and improvements.

- Stewardship and sustainability goals focus on reducing technical debt and placing the university in a position to begin maintaining regular refresh cycles.
- Improvements will enhance the user experience in all MSU classrooms, research labs, offices, and facilities through the connectivity, reliability, and availability of secure networks.
- This initiative promotes current and next generation energy-efficient technologies and enables future growth to support the success of all Spartan students, faculty, researchers, and staff.

The following is only a snapshot, not an inclusive representation of all the work being done with this multi-year investment.

WHAT IS UPGRADING

Feedback from campus stakeholders guides our approach in modernizing MSU's network.
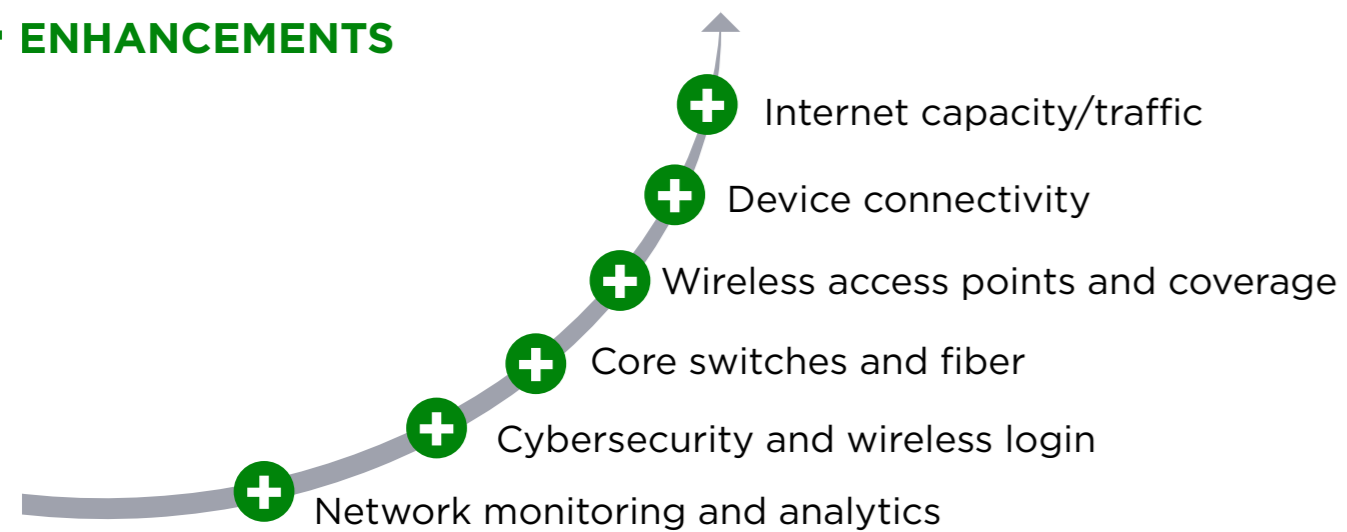
UPGRADES WILL IMPROVE:

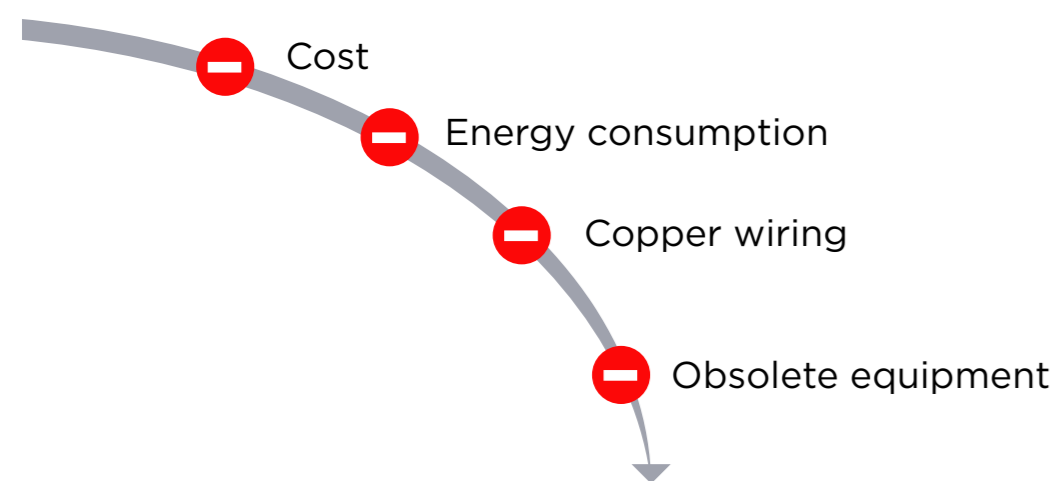CONNECTIVITY AND RELIABILITY

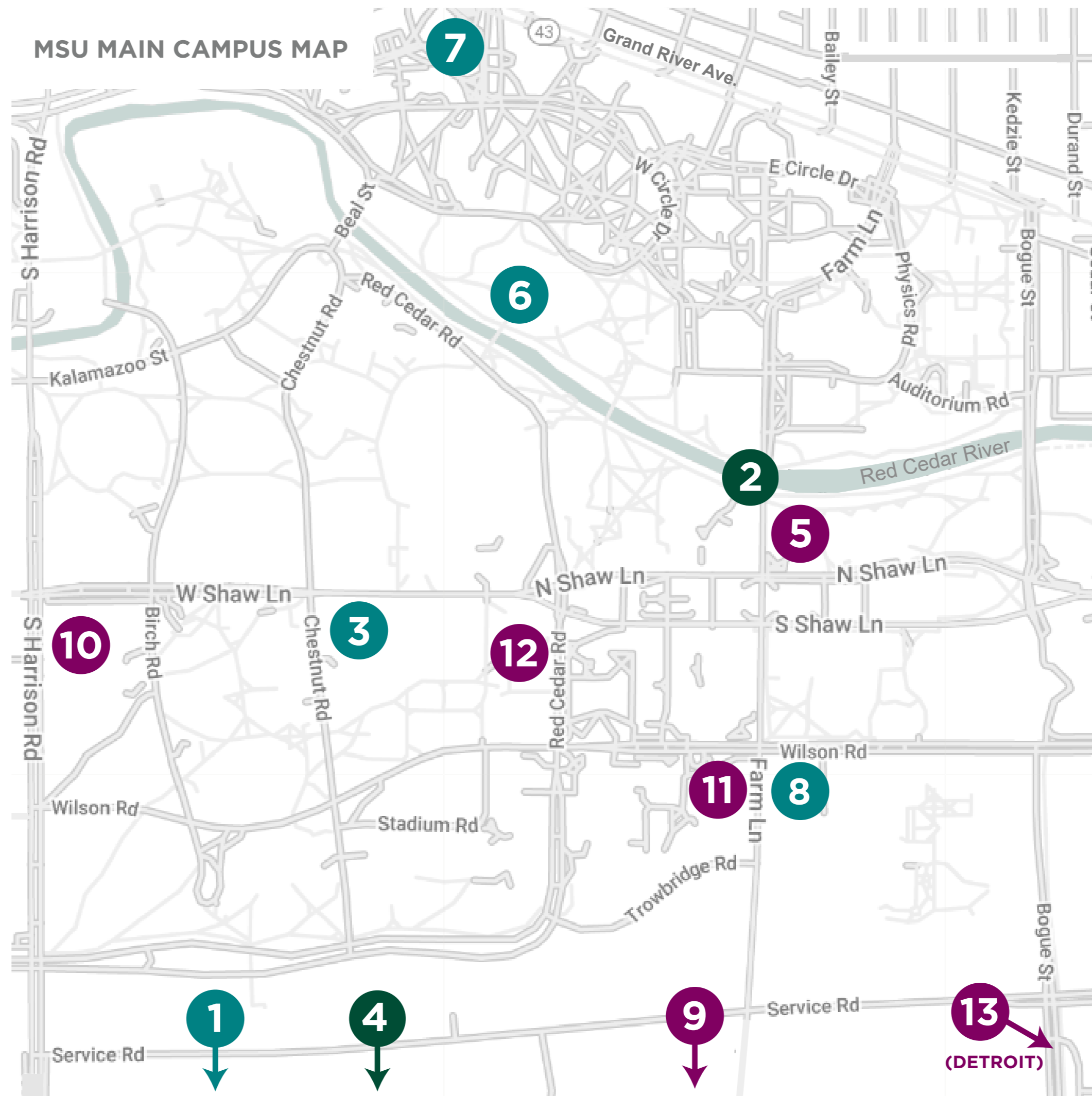SECURITY AND RESILIENCY

SPEED AND CAPACITY

SUSTAINABILITY

+ ENHANCEMENTS

- Internet capacity/traffic
- Device connectivity
- Wireless access points and coverage
- Core switches and fiber
- Cybersecurity and wireless login
- Network monitoring and analytics

− REDUCTIONS

- Cost
- Energy consumption
- Copper wiring
- Obsolete equipment

WHERE UPGRADES ARE OCCURRING

MSU MAIN CAMPUS MAP

NEW BUILDINGS

New fiber optics, copper wiring, and equipment including network switches and wireless access points.

EXISTING BUILDING IMPROVEMENTS

Upgrade fiber optics, copper wiring, and wireless solutions for high-performance networking and increased bandwidth. Improve equipment including network switches and wireless access points. Helps energy efficiency to reduce consumption and costs.

OTHER CAMPUS ENHANCEMENTS

FARM LANE BRIDGE FIBER
New fiber infrastructure to support future network growth and improve connection speeds.

MSU DATA CENTER GENERATOR & IPF RESILIENT CONNECTION
New generator adds redundancy for power systems serving critical computing services, removes points of failure, and ensures availability during emergencies.

Updated August 2024

WHEN UPGRADES ARE HAPPENING

2024

1. HORSE TEACHING AND RESEARCH CENTER FIBER ✓ COMPLETED

2. FARM LANE BRIDGE FIBER ✓ COMPLETED

3. DUFFY DAUGHERTY FOOTBALL COMPLEX RENOVATION ✓ COMPLETED

4. INSTALL MSU DATA CENTER GENERATOR & IPF RESILIENT CONNECTION

5. MULTICULTURAL CENTER

2025

6. LIBRARY SPECIAL COLLECTIONS RENOVATION

7. CAMPBELL HALL

8. PLANT SCIENCES GREENHOUSE

9. DAIRY RESEARCH FACILITY

2026

10. STUDENT RECREATION & WELLNESS CENTER

2027

11. PLANT & ENVIRONMENTAL SCIENCE BUILDING

12. ENGINEERING & DIGITAL INNOVATION CENTER

13. DETROIT RESEARCH BUILDING