

INFORMATION TECHNOLOGY SERVICES  
**STRATEGIC ROADMAPS**

2023 - 2026



WASHINGTON STATE UNIVERSITY  
**Information Technology Services**



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## Advancing WSU's Technology Initiatives

Information Technology Services' (ITS) continuing technology and cybersecurity efforts easily align with the newly defined strategic pillars for years to come. Centered on student success, academic excellence, innovation, and more, WSU's updated strategic pillars serve as the foundation for our technology roadmaps.

### Prioritizing Accessibility and Student Success

ITS is committed to an excellent student experience, as exemplified by two key projects:

- **Mobile Interface Upgrades:** A redesign of the mobile interface for the university's primary student information system, MyWSU, to provide a more accessible experience for essential resources.
- **Improved Evaluations:** Streamlining the course evaluation system to foster engagement and improve feedback opportunities for students and university leadership.

### Embracing Innovation

ITS is modernizing technology infrastructure to improve scalability, standardization, and governance across various services, as detailed in the planned work:

- **Migrating to the Cloud:** Moving core services to cloud environments to redefine infrastructure and enable scalable, secure, and cost-effective technology solutions.
- **Identity Access Management:** Reimagining identity access administration, automating provisioning, and online user access for strengthened security.

### Strengthening University Infrastructure Security

ITS prioritizes protecting institutional assets and reducing risk via multiple initiatives, including:

- **Legacy Service Updates:** Diminishing cybersecurity vulnerabilities due to dormant accounts and aging processes in our Microsoft 365 environment.
- **National Standards and Expertise:** Enhancing IT management, risk, and security policies and practices for the institution guided by industry-best standards.



### Leveraging Data for Institutional Goals

By optimizing existing information structures, we are harnessing data to align teaching and learning resources with WSU's strategic expectations.

ITS remains steadfast in supporting and advancing WSU's research, infrastructure, business, and academic endeavors.

**Thank you for your dedication to our shared vision.**

**Tony Opheim**

*Vice President & Chief Information Officer*

# Course Evaluation

Information Technology Services (ITS) is working to transition the course evaluation system away from the multi-instrument implementation currently in use to a standardized and consolidated service. Future work aims to improve and standardize the course evaluation system through enhanced procedures and established policies. “Years and years ago, the course evaluation system was a homegrown, in-house hosted solution,” states Gary Saunders, ITS director. “Our future work is what will take it from that to an enterprise level application, providing enterprise level data.”

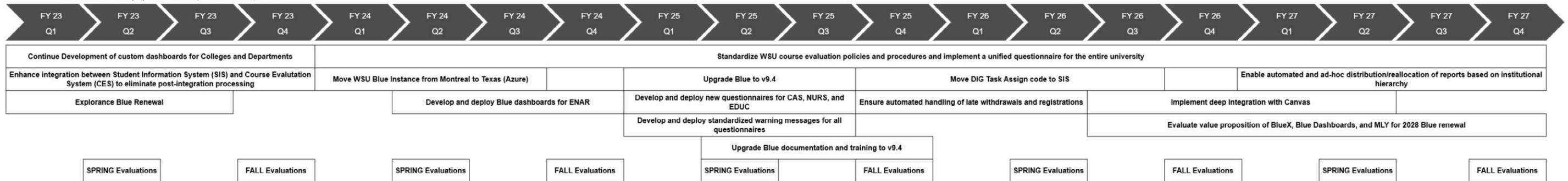
Introducing integrated dashboards and advanced AI tools will assist with analyzing qualitative feedback for complex, intricate response insights. Deeper integration with Canvas is also expected to improve response rates and foster a stronger feedback culture. “This work gets us a clean capability for students to give us their feedback, to talk to us about what is important to them, and for us to analyze and disseminate that feedback in a meaningful way. It also puts us on par with some of the best universities in the world,” asserts Sam Carpenter, ITS manager.

*“This work gets us a clean capability for students to give us their feedback [and] puts us on par with some of the best universities in the world,” asserts Sam Carpenter, ITS manager.*

## Course Evaluation Roadmap

### Goals

- Standardize WSU Course Evaluations
- Improve Response Rates
- Develop Quality Insights
- Evaluate the value proposition of BlueX, Blue Dashboard, and MLY



# Student Information System

Information Technology Services (ITS) continues to prioritize improving the myWSU experience. “myWSU is central to nearly everything we do at WSU, and it plays a critical role in connecting students, faculty, and staff. Going forward over the next several years, our commitment to improving infrastructure for all ITS services includes strengthening myWSU’s ability to support the entire WSU community across the university, college, and department levels,” stresses Gary Saunders, ITS director.

Alongside enhancing existing features and introducing new tools tailored to stakeholder needs, ITS is consistently refreshing the myWSU mobile interface as vendor-driven updates become available. Frequent updates create a more accessible experience across a wide range of devices, ensuring myWSU supports academic excellence and administrative operations at all levels for all individuals.

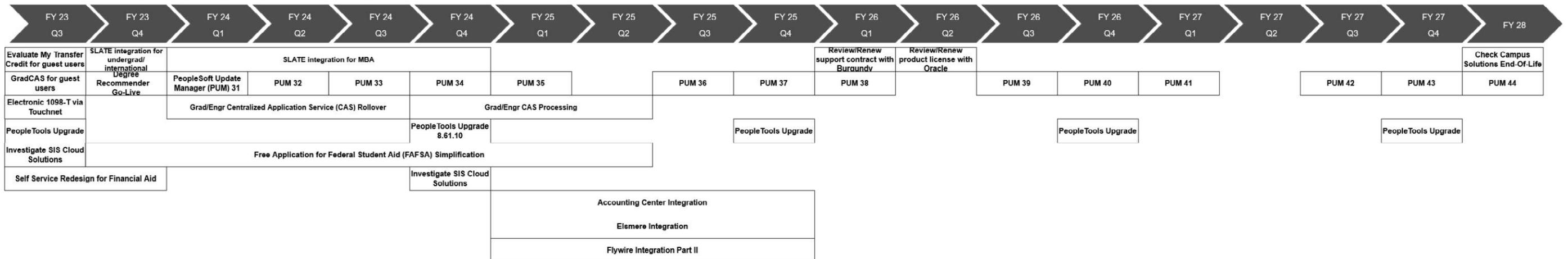


“myWSU is central to nearly everything we do at WSU, and it plays a critical role in connecting students, faculty, and staff,” stresses Gary Saunders, ITS director.

## Student Information System Strategic Roadmap

### Goals

- Lead Student Information System (SIS) operational, developmental and configuration efforts by introducing and integrating new enterprise tools and applications
- Link SIS technology changes to institutional goals with measurable objectives
- Leverage digital-outcome-driven metrics framework for higher education to identify value of investments
- Continue to Decouple the SIS by introducing new enterprise business capabilities using point solutions specific to stakeholder business models and practices





*“WSU is strongly committed to providing the best for students and faculty, and is always looking out for any new, cutting-edge technology,” affirms Anden Lewis, ITS manager.*

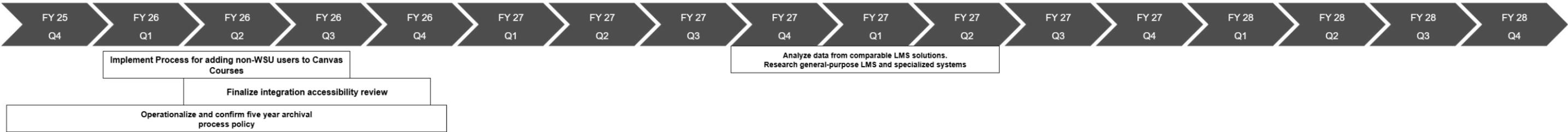
## Learning Management System

Information Technology Services (ITS) is focusing on strategic improvements to WSU’s Learning Management System (LMS). In the coming years, ITS will formalize access for non-WSU students enrolled in credit-bearing courses, streamline integration accessibility reviews, and implement a five-year archival policy for course content. These efforts aim to reduce manual workloads, improve compliance with university policies, and ensure continuous access to the learning and instructional tool.

ITS also plans to evaluate leading LMS platforms and emerging technologies. “WSU is strongly committed to providing the best for students and faculty, and is always looking out for any new, cutting-edge technology,” affirms Anden Lewis, ITS manager. With a forward-looking approach, ITS is working closely with academic and administrative stakeholders to ensure that future changes properly address the needs of faculty and students.

## Learning Management System Roadmap

**Goals** • Empower student learning and instructional tools through providing a proficiently administrated industry-leading Learning Management System (LMS)





## Mobile Application

Recognizing the growing reliance on mobile technology among students in higher education, Information Technology Services (ITS) remains focused on completing quarterly security patching for the Mobile WSU application.

Following a consistent process for improving the application’s backend technology ensures ITS complies with evolving mobile standards and user expectations. “With students and applicants now relying on handheld devices as their primary means of engagement, our mobile app must serve as a dependable gateway to the academic experience. Our goal is to ensure it offers timely, reliable access to the information that supports their success,” emphasizes Gary Saunders, ITS director. Mobile WSU application updates reflect ITS’ ongoing commitment to maintaining systems that meet trusted standards for security, performance, and accessibility.

*“Our mobile app must serve as a dependable gateway to the academic experience,” emphasizes Gary Saunders, ITS director.*



### Mobile Application Roadmap

**Goals** • Develop governance structure and development pipeline to enable university departments to leverage the mobile application





*“Through deeper integration with Okta, we can continue to create new processes that make transitions significantly more efficient and secure,” reports Geoff Allen, ITS manager.*

## Identity and Access Management

By further adopting Okta’s versatile tools, Information Technology Services (ITS) aims to better manage online access and align identity management with university processes and security protocols. “We see a clear need to simplify access management and data applications across the university. Through deeper integration with Okta, we can continue to create new processes that make transitions like onboarding and separation significantly more efficient and secure for supervisors and employees alike,” reports Geoff Allen, ITS manager.

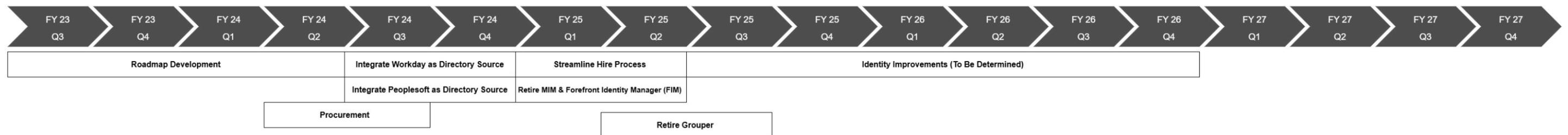
Automating procedures for adding or removing access will not only improve process reliability and ensure WSU data is accessed by appropriately authorized users, but it will also streamline identity and access management to facilitate prompt and secure resource access for new students and employees.



### Identity and Access Management Roadmap

#### Goals

- Directly connect Okta to myWSU, Active Directory, and Workday directories using Advanced Sourcing
- The new integrations replace the existing Microsoft Identity Manager (MIM) and script based integrations
- Generate artifacts documenting work performed, best practices, test plans, and procedures for use by WSU Information Technology (IT) staff going forward



## Cloud Services

The migration to Amazon Web Services (AWS) enables Information Technology Services (ITS) to redefine cloud service infrastructure and support at WSU. ITS is restructuring AWS organizations to follow a standardized model that automatically configures permissions and resource allocations based on predetermined standards. Required for high-level research contracts and funding eligibility, ITS is also prioritizing compliance with the federal Cybersecurity Maturity Model Certification (CMMC). Geoff Allen, ITS manager, highlights, “AWS provides an industry-leading infrastructure and security foundation that enables WSU to scale and meet complex requirements that are critical for supporting operations across countless business and technical areas of the university.”

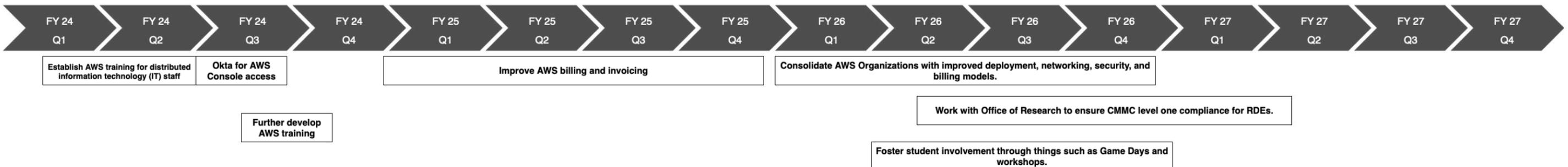
Beyond infrastructure, ITS is serving as a liaison between AWS and the campus community, facilitating support for student-led initiatives that emphasize hands-on experience with cloud technologies. Standardizing AWS, supporting federal compliance, and connecting students with real-world experience ensures WSU cloud infrastructure continues to evolve with institutional priorities.



*Geoff Allen, ITS manager, highlights, “AWS provides an industry-leading infrastructure and security foundation that enables WSU to scale and meet complex requirements.”*

## Cloud Services Roadmap

**Goals:** Use Okta for Amazon Web Services (AWS) Console access  
Improve AWS billing and invoicing





*“By adopting alternative cloud solutions, WSU can both save costs and strengthen the university’s security posture,” states ITS Director Bill Rivers.*

## Office 365 and Active Directory

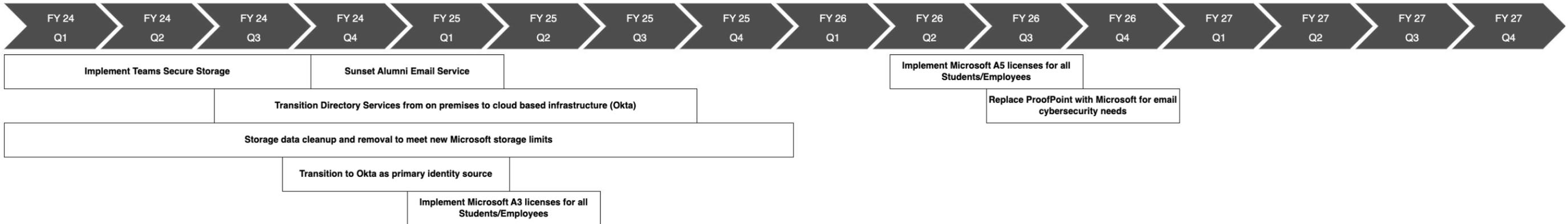
Information Technology Services (ITS) is transforming WSU’s authentication process within the active directory (AD) system by shifting from on-premise to cloud-based servers. With daily system operations managed off-site, ITS can minimize physical system upkeep and focus on advanced system configuration and data extraction. Transitioning to the cloud not only enables ITS to better serve the community through increased support availability, but it also improves system security, offers advanced features, and facilitates quicker service delivery.

As expected with automating the provisioning and deprovisioning of alumni email accounts to reduce opportunities for cyber attackers to access WSU’s Office 365 system, retiring legacy services and embracing cloud solutions secures the university against potential cyber threats. “Balancing stakeholder needs with security considerations is critical as we move forward with retiring legacy services. By adopting alternative cloud solutions, WSU can both save costs and strengthen the university’s security posture, safeguarding our systems against vulnerabilities and ensuring their integrity,” states ITS Director Bill Rivers.

### Office 365/Active Directory Roadmap

- Goals**
- Migrate existing service functions to modern cloud services and align services with direction of other enterprise services
  - Enable institution to manage endpoints from cloud-based services
  - Enable areas and colleges to manage their own resources in accordance with WSU policy and state requirements
  - Retire services that are legacy in nature or underutilized
  - Improve service offerings with modern cloud solutions

- New Capabilities**
- Role Based Access Control in Azure Active Directory (AD), Office 365, and cloud Software as a Service (SaaS) AD Domain Services (DS) originating from Okta
  - Automated provisioning and deprovisioning of licenses
  - More robust, discreet, and customizable service management and entitlement
  - Greatly improved security in functionality, features, and reduced attack surface
  - Identity based data management and removal



## Control-M, A BMC Solution

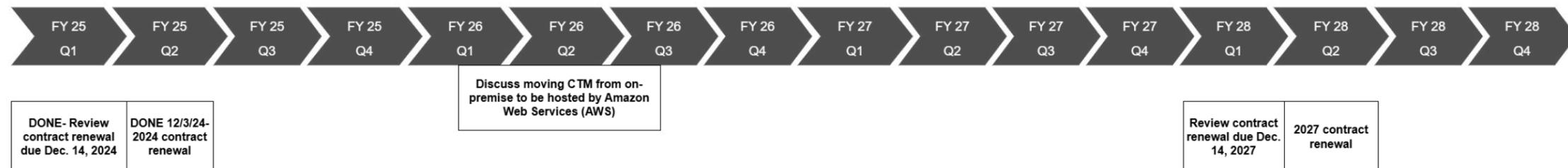
Information Technology Services (ITS) is planning to transition support for Control-M, WSU's primary scheduling application for business and administrative staff, to a cloud-based server. Offering a more stable data environment, cloud support improves Control-M operations by ensuring unexpected service outages and scheduled maintenance do not delay batch job processes. ITS Associate Director Jen Steffan clarifies, "Transitioning batch job dependencies to an automated support server in the cloud will reduce system downtime, lessen manual monitoring requirements, and improve our team's efficiency. Moving to the cloud will ultimately introduce smoother operations to minimize impact on the WSU community." "Routine server upgrades and application patches being managed by a cloud provider will allow us to continue improving other parts of the batch job process and job execution," adds Monica Burleson, ITS system administrator.



*ITS Associate Director Jen Steffan clarifies, "Moving [batch job dependencies] to the cloud will ultimately introduce smoother operations to minimize impact on the WSU community."*

## Control-M, BMC Roadmap

- Goals**
- Move toward hosted solution for Control-M (CTM) Servers vs. having on WSU campus, thereby reducing downtime experienced due to WSU maintenance schedules.
  - Ability for external areas to have their own process flows to monitor and run as desired. With that comes training, security settings established and active monitoring.



## Atlassian Data Center

Information Technology Services (ITS) is reshaping Data Center services using modern technical practices and a new governance framework that defines best practices for building and implementing new processes and tools in Jira and Confluence. ITS' governance framework not only encompasses utilizing resources effectively, managing risks, ensuring system security, and meeting user expectations, but it also represents WSU's ongoing effort to clearly define how university systems are monitored, used, and altered. ITS is also exploring the benefits of supporting the Atlassian Data Center in a cloud environment. "We aim to optimize the durability, availability, and serviceability of ITS systems

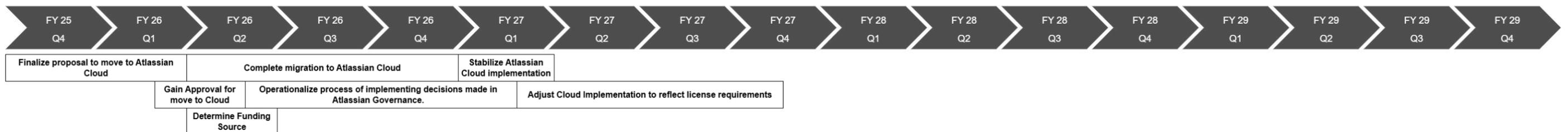
while carefully balancing cost, time, and resources. By identifying how best to support the Data Center so that it can be as available and functional as possible for everyone who needs it, we can provide reliable systems that effectively serve the diverse needs of WSU Atlassian users," states ITS Director Justin Hughes.

*"We aim to optimize the durability, availability, and serviceability of ITS systems while carefully balancing cost, time, and resources," states ITS Director Justin Hughes.*



### Atlassian Data Center/Cloud Roadmap

- Goals**
- Upgrade Jira/Confluence to Atlassian Cloud for a more cost effective implementation
  - Strengthen our overall Atlassian support model through professional training and certification



# Information Security Program Policies and Compliance Program Development

Information Technology Services (ITS) is proactively improving the university's information security program through extensive review, development, and implementation of official WSU policy. Using the National Cyber Security Review (NCSR) and the National Institute of Standards and Technology (NIST) 800-53 standard as the foundation for WSU's information security policy, ITS is identifying opportunities to improve existing and develop new policies to refine governance and better address potential security risks. "It is our intent to create a mechanism that gives researchers, technical users, and business units clear guidance on security policies and compliance actions. With clear steps on how to comply with policy, ITS can help university members understand their current security maturity and identify opportunities to improve future initiatives," states Chief Information Security Officer (CISO) Michael Walters. This approach promotes transparency and emphasizes the importance of risk assessment and collaboration to enhance security measures at WSU.



*"With clear steps on how to comply with policy, ITS can help university members understand their current security maturity," states Chief Information Security Officer (CISO) Michael Walters.*

## Information Security Program Policies & Compliance Program Development

- Goals**
- Alignment with National Institute of Standards and Technology (NIST) Standards: Ensure that all policies and standards are in sync with NIST 800-53, incorporating the latest security controls and guidelines
  - Enhanced Security Posture: Strengthen the organization's security posture by addressing gaps, vulnerabilities, and emerging threats
  - Risk Mitigation: Identify and mitigate risks by updating policies to reflect current security challenges
  - Consistency and Clarity: Provide clear, consistent, and actionable guidance to employees, contractors, and stakeholders. Updated policies ensure everyone understands their roles and responsibilities.



## System Information Technology Vulnerability Management Program Development

Information Technology Services (ITS) is implementing an automated enterprise vulnerability management program to improve WSU’s current information technology vulnerability practices. ITS is refining response strategies to identify vulnerabilities, treatment plans for critical vulnerabilities, and timelines for remediating vulnerabilities to enhance WSU’s security posture. “With ITS serving as the principal model for a true automated vulnerability program, it is our goal to deploy an enterprise vulnerability management program that ensures risk is mitigated to the fullest extent,” emphasizes Chief Information Security Officer (CISO) Michael Walters.

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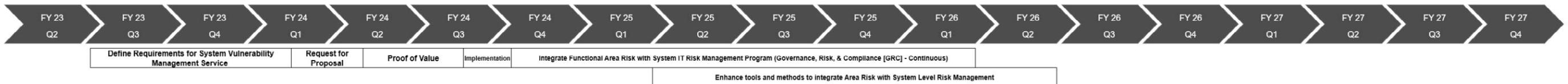
ITS is also expanding its program focus to include the capture, measurement, and reporting of functional security metrics for vulnerability management and extended security intelligence and monitoring. By aligning these efforts with the top risks facing higher education, WSU is better equipped to evaluate whether its security tools, investments, and methods are individually and cohesively effective.



### System Information Technology Vulnerability Management Program Development

#### Goals

- Minimize Response Time: The program strives to reduce the time it takes to respond to critical security situations. Swift action ensures that vulnerabilities are addressed promptly and potential threats are mitigated.
- Prevent Breaches: By identifying, assessing, and addressing potential security weaknesses, the program aims to minimize the likelihood of breaches. Proactive vulnerability management helps prevent unauthorized access and data compromise.
- Maintain Compliance: Organizations use vulnerability management to maintain compliance with security standards and regulations. Regular assessments and remediation efforts ensure alignment with industry best practices and legal requirements.
- Reduce Attack Surface: The program seeks to minimize the overall attack surface by prioritizing vulnerabilities based on risk and exposure. By addressing known vulnerabilities, organizations can enhance their security posture and protect critical assets.
- Integrate Functional Area Risk with IT Risk Management, focusing on collaboration across TVM, XSIAM, SOC, and GRC to capture and report security metrics, ensuring alignment with top higher ed risks.
- Integrate Quantitative Methods (FAIR) to identify and manage WSU’s Top Level IT Risks.





## System Information Technology Risk Management

Information Technology Services (ITS) is advancing how information technology risk is identified, evaluated, and managed at WSU. Ensuring the integrity and confidentiality of WSU systems and data, ITS is adopting a new quantifiable risk framework for a transparent and defensible approach to cyber risk management. “The FAIR [Factor Analysis of Information Risk] cyber risk quantification framework allows ITS and WSU to respond more effectively to evolving regulatory pressures, complex threat landscapes, and leadership demand for risk-based decision-making,” explains Steven Conover, ITS team member.

ITS is creating a mechanism for business decision-makers, executives, signature authorities, and those involved in institutional strategy “to know what their accountability and responsibility is with respect to data and security. The flow of information about data, where data is, and who is ultimately responsible for making decisions with respect to data is becoming clearer,” says Chief Information Security Officer (CISO) Michael Walters. As leadership, leadership collaboratives, and data owners across the system receive risk information, WSU can apply improved risk management principles to decisions by evaluating the potential impact on systems, services, colleges, or the university.



*“The flow of information about data, where data is, and who is ultimately responsible for making decisions with respect to data is becoming clearer,” says Chief Information Security Officer (CISO) Michael Walters.*

### System Information Technology Risk Management

- Goals:**
- Control and Protection: To manage, control, and protect the information technology (IT) environment, ensuring the security and stability of systems and data
  - Integrity, Confidentiality, and Availability: To maintain the integrity, confidentiality, and availability of IT services. This involves safeguarding sensitive information, preventing unauthorized access, and ensuring uninterrupted service delivery.
  - Effective Risk Identification and Management: The program aims to identify and manage risks effectively, ensuring that potential threats are addressed proactively. This includes assessing vulnerabilities, analyzing impact, and implementing risk mitigation measures.
  - Transition from a traditional compliance-first model to a quantifiable, transparent, and defensible approach to cyber risk management.



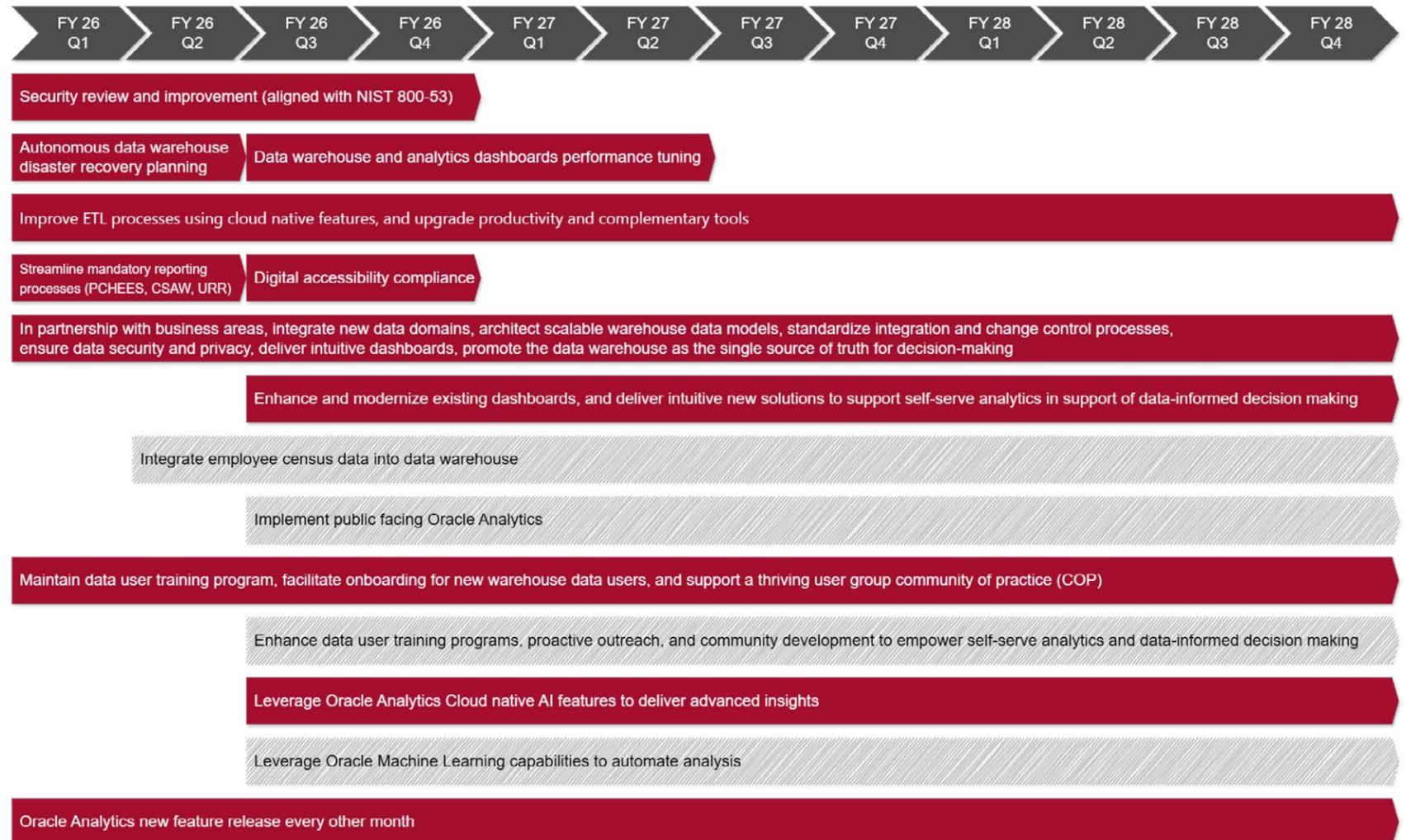
## Reporting and Analytics

Information Technology Services (ITS) is improving data management and analytics services at WSU to meet a growing demand for secure, accessible, and actionable data. To protect institutional data, ITS is continuing disaster recovery planning and implementing a comprehensive security review aligned with federal standards. ITS is also optimizing workflows for improved reliability and streamlining processes to ensure consistency and trust in university data.

Central to this work is a commitment to position the data warehouse and analytics services as the university's trusted source of truth. "Our goal is to provide a secure, reliable platform that empowers the WSU community to access trusted data and perform meaningful analysis in a self-service way," asserts Corinna Lo, ITS manager. By enhancing dashboard usability, expanding training resources, and advancing analytics tools, ITS ensures the community can use accurate data with confidence to support projects, research, and strategic initiatives across WSU.

*"Our goal is to provide a secure, reliable platform that empowers the WSU community to access trusted data," asserts Corinna Lo, ITS manager.*

## Analytics Roadmap



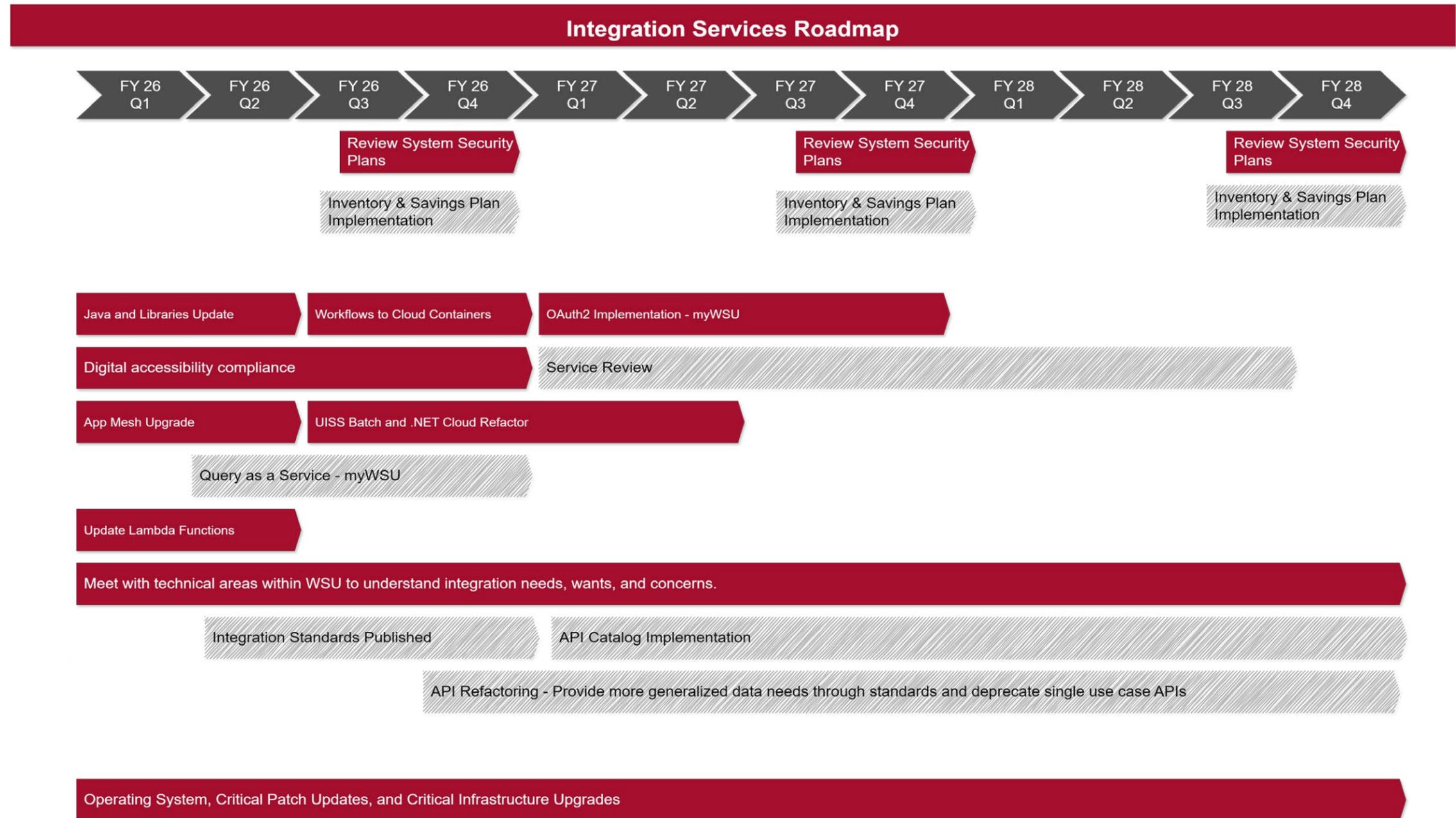
# Integration Services

With a listening-first approach, Information Technology Services (ITS) is refining integration services at WSU through active engagement with colleges and departments to better identify needed services and opportunities for improvement. Justin Hughes, ITS director, underscores, "Our biggest objective is to align and deliver integration services based on what users really need. Focusing on solutions that matter most to our stakeholders instead of relying on what we assume is necessary is our priority."



Recent infrastructure improvements have also created new opportunities to modernize and optimize integration architecture. To support scalable, efficient, and secure integrations, ITS is reviewing security and savings plans, exploring new technologies, and expanding operational tooling. With nearly every university system relying on timely data exchange, integrations are critical for ensuring WSU services remain connected, resilient, and capable of supporting institutional initiatives.

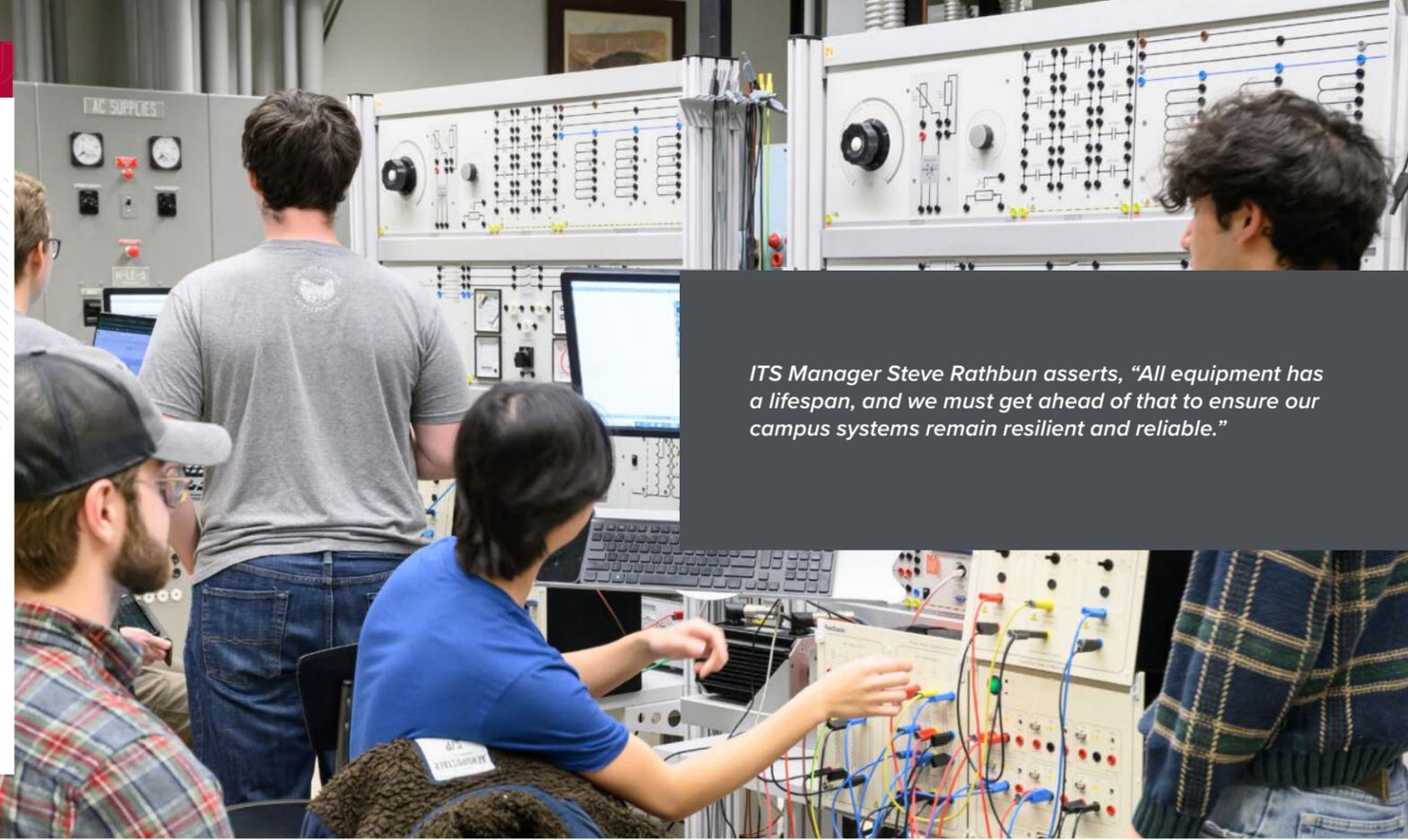
*Justin Hughes, ITS director, underscores, "Focusing on solutions that matter most to our stakeholders instead of relying on what we assume is necessary is our priority."*



# Network Engineering

Information Technology Services (ITS) continues to strengthen WSU's network infrastructure through a series of strategic upgrades and systemwide improvements. Ongoing efforts include the housing network refresh, which supports student connectivity and is coordinated in partnership with Student Affairs, along with planning for a distribution infrastructure refresh at WSU Pullman. ITS Manager Steve Rathbun asserts, "The purpose of completing infrastructure refreshes is to proactively anticipate and prevent system failures. All equipment has a lifespan, and we must get ahead of that to ensure our campus systems remain resilient and reliable."

Firewall replacements at WSU Pullman, Spokane, Vancouver, Everett, Tri-Cities, and the Seattle TierPoint site, along with the replacement of Splunk infrastructure with the Palo Alto XSIAM platform, are projected to save the university \$2.5 million over the next five years while improving risk assessment and protecting confidential data. Additional efforts include out-of-band network upgrades, which enable remote access to critical systems during outages, and wireless infrastructure improvements. Together, these initiatives establish a secure, high-performing network environment across the WSU system.

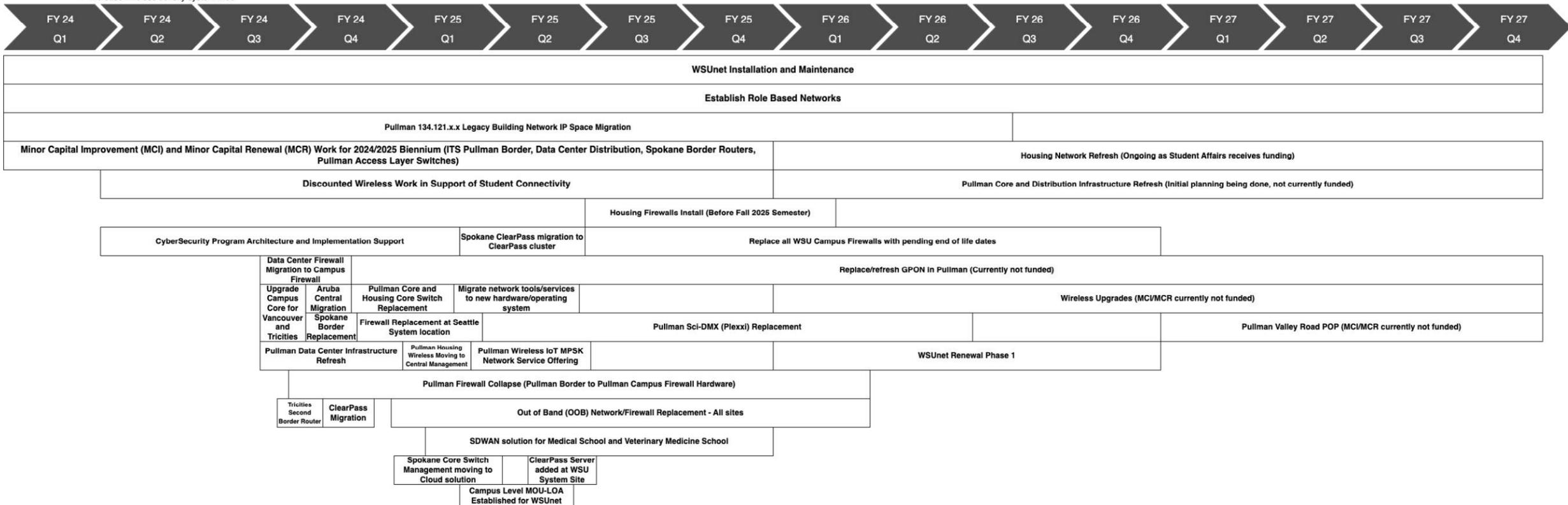


ITS Manager Steve Rathbun asserts, "All equipment has a lifespan, and we must get ahead of that to ensure our campus systems remain resilient and reliable."

## Network Engineering Roadmap

### Goals

- WSUnet installation and maintenance
- Role based network implementation
- Discounted Wireless to the departments in support of the students
- Migration to Mist Wireless and Mist Wired Assurance
- Increase wireless density system wide





*“We are continuously working to refresh and maintain our network infrastructure [to give] our students access to the resources they need,” points out Kevin Ring, ITS manager.*

## Designers and Technicians

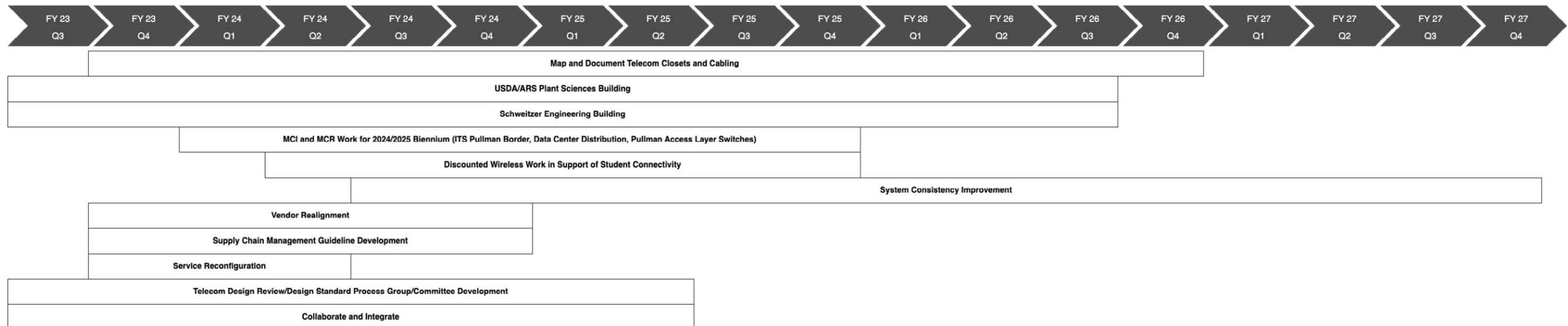
Information Technology Services (ITS) introduced a new initiative that reduces the cost of wireless services for WSU departments seeking wireless improvements in areas designated for student life and learning. With the increased affordability of wireless upgrades, departments can now improve connectivity in locations where students have expressed concerns about wireless coverage and performance. Offering state-of-the-art infrastructure in partnership with the United States Department of Agriculture (USDA), ITS is also designing and maintaining the network capabilities within Pullman’s new plant sciences building, ensuring robust performance and reliability that will facilitate significant research for WSU and USDA Agricultural Research Service (ARS) scientists in the coming years.

“Even as a large campus, we are continuously working to refresh and maintain our network infrastructure. It’s a constant cycle of maintenance and enhancement, all aimed at giving our students access to the resources they need—improved performance, wireless coverage, and connectivity that supports their academic growth and success,” points out Kevin Ring, ITS manager.

### Designers/Technicians Roadmap

#### Goals

- Discounted Wireless to the departments in support of the students
- United States Department of Agriculture (USDA)/Agricultural Research Service (ARS) Plant Sciences Building
- Minor Capital Improvement (MCI)/Minor Capital Renewal (MCR) Work





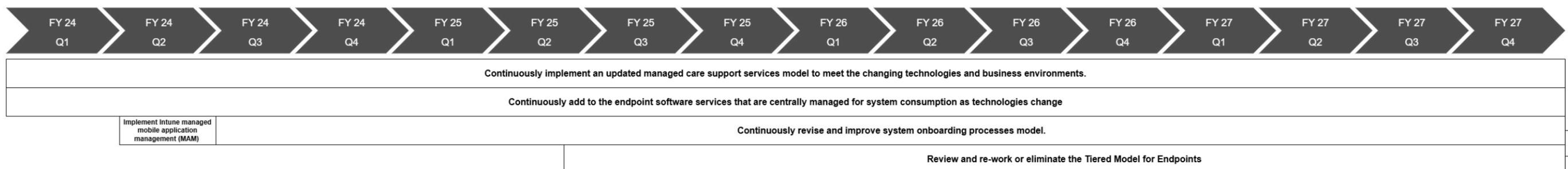
## Endpoint Management

Information Technology Services (ITS) is improving user access and application installation on university-owned devices with Intune, a central endpoint management solution. Expanding access to device and application management services to additional WSU support areas furthers the protection of university data stored on various devices. ITS is also working to offer services that allow departments to implement security products that simplify administrative access on computer devices, providing greater risk management and data protection for all WSU users and systems. “Improved management of university-owned systems across campuses will allow us to better understand where WSU data resides, who has access to it, and what users can do with it. Advanced system management enables us to focus on reducing risk to university data and preventing the accidental exposure of sensitive information,” explains Bill Rivers, ITS director.

*“Advanced system management enables us to focus on reducing risk to university data and preventing the accidental exposure of sensitive information,” explains Bill Rivers, ITS director.*

### Endpoint Management Roadmap

- Goals**
- Develop and maintain system wide endpoint baselines and software for consistency of risk management
  - Expand customer base as requested across Pullman Campus
  - Provide additional centrally managed, automated services for the management of endpoints across WSU



## Telecommunications

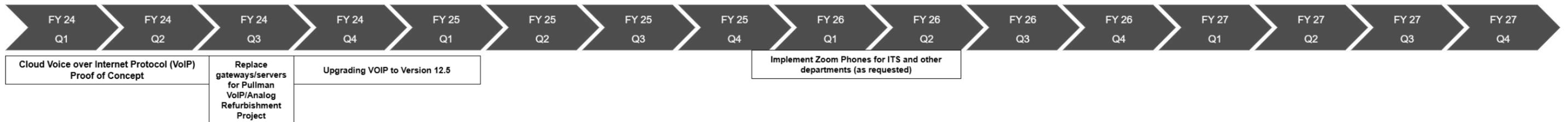
Information Technology Services (ITS) is upgrading WSU phone systems to better support the hundreds of thousands of calls the campuses receive. Upgraded phone systems will facilitate uninterrupted internal university communications and offer stable connections for improved communication with external vendors and community members. “Even with other digital communication tools, our phone system generates over 100,000 calls a month. In fact, our number one use of the system is WSU’s [Social and Economic Sciences Research Center]. This center makes thousands of phone calls a day, and with an upgraded system, we can continue supporting initiatives like those of the SESRC that promote the success of the university,” underscores Randolph Cross, ITS manager.

*“With an upgraded system, we can continue supporting initiatives like those of the [Social and Economic Sciences Research Center] that promote the success of the university,” underscores Randolph Cross, ITS manager.*



### Telecommunications Roadmap

**Goals:** Maintain Pullman & Everett Telecom services as required  
Offer centralized Phone services to other campuses as requested



## High-Performance Computing and Service Level Agreement Uninterruptible Power Supplies

Information Technology Services (ITS) plays a significant role in maintaining high-performance computing (HPC) for researchers to compress and analyze extensive data sets by providing uninterrupted power supplies, supporting backup power needs, purchasing equipment, and offering Kamiak hardware management. Recognizing an increasing demand for electrical loads, ITS expects to upgrade and modernize the system's infrastructure and electrical supply capabilities. ITS Director Bill Rivers explains, "It is critical we align electrical power with any new equipment. In knowing the energy and heat our HPC supercomputers use, we need to make sure WSU systems dissipate power correctly to allow the service and its backup functions to operate without interruption." Redesigning the electrical capabilities and downtime in ITB will also enhance Kamiak's efficiency. "As Kamiak grows, we must grow with it. Researchers are working with millions of data sets, and it is critical for WSU to have computers capable of processing that scale of information. With improved Kamiak support, we will enable faster data analysis and the handling of larger data sets, directly heightening our research capabilities," adds Rivers.

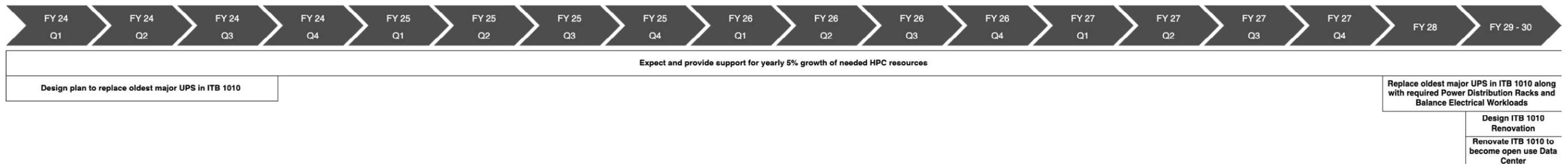


*"With improved Kamiak support, we will enable faster data analysis and the handling of larger data sets, directly heightening our research capabilities," says ITS Director Bill Rivers.*

### High Performance Computing/Service Level Agreement Uninterruptible Power Supply Roadmap

#### Goals

- Redesign and upgrade the electrical supply capabilities and replace aging infrastructure in Information Technology Building (ITB) 1010 as necessary
- Continue to support the backup power needs and expansion of High Performance Computing (HPC) and Service Level Agreement (SLA) customer's equipment
- Consolidate four Uninterruptible Power Supplies (UPS) down to two modular and more efficient UPS' and provide redundant power to all racks
- Replace old circuit breaker panels with modular Power Distribution Racks





*Jeremy Movius, ITS manager, asserts, "We are constantly working to maintain the current needs of the university while proactively upgrading aging equipment to prevent failures."*

## Data Center Operations

Information Technology Services (ITS) is making more changes to improve infrastructure use and support, in addition to planned high-performance computing (HPC) work. ITS is adopting new server backup software that protects against ransomware by securing backups from deletion or alteration, ensuring data integrity. To better address the increasing demand for centralized, large-scale storage solutions from university departments, ITS is expanding service level agreement (SLA) file server capacities. ITS is also upgrading sensors and cameras in ITS' primary DataCenter and major communications facilities across campus to better monitor environmental conditions and offer improved security. Jeremy Movius, ITS manager, asserts, "Our mission is to keep operations running as smoothly as possible and to ensure our work supports all of the core infrastructure for ITS, our SLA customers, and our partners across other campuses. We are constantly working to maintain the current needs of the university while proactively upgrading aging equipment to prevent failures and avoid service interruptions for students and staff."

### Data Center Operations Roadmap

- Goals**
- High Performance Computing (HPC)/Service Level Agreement (SLA) Project
  - Minor Capital Improvement (MCI)/Minor Capital Renewal (MCR) Work for 2024/2025 Biennium



HPC/SLA Uninterruptible Power Supply (UPS) Project

MCI and MCR Work for 2024/2025 Biennium (Disaster Recover Backup and Everett Virtual Storage Area Network [vSAN] Host Replacement)

- Data Center Upgrade (\$1,500,000 required from FY28/29 MCR Funds)
- New UPS for Information Technology Building (ITB) 1010 (\$750,000 required from FY28/29 MCR Funds)
- University File Server (\$300,000 required from FY28/29 MCR Funds)
- ITS Data Center and Major Communications Facilities (MCF) Monitoring (\$60,000 required from FY28/29 MCR Funds)
- Security and Network Operation Center (SNOC) Video Wall (\$60,000 required from FY28/29 MCR Funds)



## Project Management Services

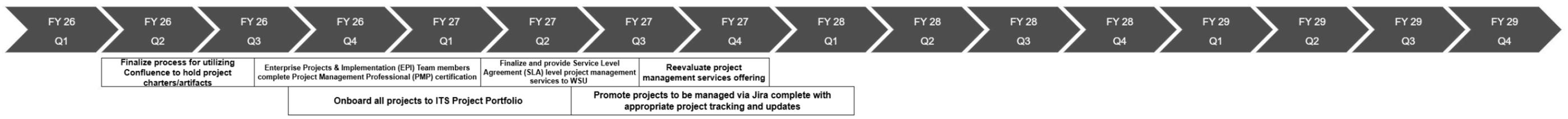
With a focus on efficient project completion, Information Technology Services (ITS) is establishing clear guidelines for project support and implementing structured review processes for improved request management. Promoting timely task progression within new projects, ITS is increasing project management certifications and enhancing awareness of ongoing projects among support teams.

Anden Lewis, ITS manager, affirms, “We are committed to supporting the successful implementation of projects and initiatives to deliver a better application and system experience for the entire university community.” To achieve this, ITS is not only developing policy documentation to effectively manage and track project work, but is also working to establish a refined project management framework through effective stakeholder communication, timely updates, and enhanced risk management.

*Anden Lewis, ITS manager, affirms, “We are committed to supporting the successful implementation of projects and initiatives to deliver a better application and system experience.”*

### Project Management Services Roadmap

**Goals** • Efficiently and effectively provide project management services to high impacting ITS projects.



## Our Mission & Vision

Information Technology Services (ITS) is dedicated to providing innovative and reliable technology that supports the academic, research, and administrative needs of the university community.

Our mission is to empower faculty, staff, and students with accessible technology and systems, excellent customer support, and secure solutions which advance knowledge in a rapidly changing world.

Our vision is to be a leading IT organization within the land grant public university sector, known for our commitment to collaboration, excellence and innovation. We strive to create a culture of continuous improvement, seamlessly integrating technology into all aspects of campus life from teaching and learning to research and administration.

### To achieve this vision, we will focus on the following areas:

- **Infrastructure and Security:** Ensure that our IT infrastructure is secure, reliable, and adaptive, supporting the ever-expanding needs of the community.
- **Data Management and Analytics:** Develop and implement data management and analytics solutions which enable informed decision-making, that supports student success.
- **User Experience:** Enhance the user experience by providing intuitive, responsive, accessible technology tools and resources for all members of our community.
- **Technology Integration:** Incorporate technology into all aspects of campus life, from teaching and learning to research and administration, to create a seamless, integrated technology ecosystem supporting collaboration and innovation.
- **Continuous Improvement:** Foster a culture of continuous improvement by regularly reviewing and updating our IT strategies and plans, and by seeking feedback and input from stakeholders across the university.

By dedicating our efforts to mastering these key areas, we ensure that ITS meets the evolving needs of our community and grows into a leading IT organization within the land grant public university sector.

## Our Values

We prioritize transparency and partnership to enhance the educational and business experience. As part of our commitment, we live out these values:

- **Respect:** consideration and acceptance of all differences and capabilities
- **Personal integrity:** behaviors and actions align with our personal values, principles, and ethics which are focused on transparency and accountability
- **Collaboration:** working together as equals across the system to facilitate excellence in all areas
- **Inclusiveness:** equitable access to opportunities and resources for all individuals, regardless of their background, identity, or circumstances
- **Responsiveness:** quick, reliable, positive action in support of customer needs
- **Empowerment:** equipping the community with technology tools and support to meet academic and business goals
- **Creativity:** exploring innovation through technologies and partnerships





*Dedicated to providing innovative and reliable technology  
that supports the academic, research, and administrative  
needs of our university community.*



WASHINGTON STATE UNIVERSITY  
**Information Technology Services**