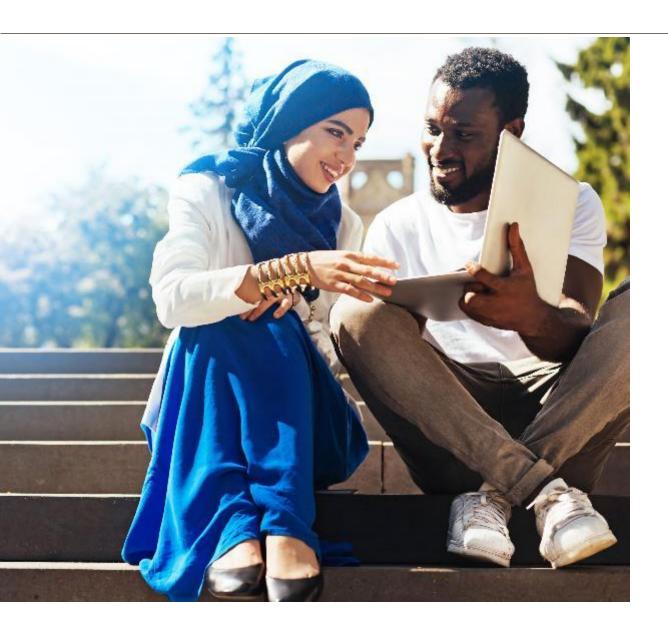


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Today's Agenda

01 Introductions

Project Objectives and Timeline

O3 Summary of Future State Recommendations

04 Next Steps

05 Q&A

Introductions

Meet the Deloitte Team



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James Qua QA Partner



LJ Filetti Project Manager



Jessica Kaplan Engagement Lead



Drew Johnson Project Consultant



Amy Wittmayer
Teaching & Learning Lead



Sanika Subhedar Project Analyst



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Campus-wide town halls create a platform for us to engage with the broader SJSU stakeholders, allowing you to offer input, ensuring your voice is heard as part of the process while fostering transparency in all our activities.

Town Hall Principles

1 > TO INFORM

 Town halls are an opportunity to provide updates on the progress and status of the LSUATS project.

2) TO BE TRANSPARENT

• Town halls allow us to share information openly about the goals, outcomes, and overall process throughout the project.

3) ► TO SHARE AND RECEIVE INPUT

• Town halls are a platform to share project outputs and findings to broader stakeholders and garner feedback.

(4) ► TO BUILD EXCITEMENT

 Town halls generate excitement and enthusiasm for the broader transformation and help build momentum and buy-in across the campus.

Project Objectives and Timeline

Project Objectives and Goals



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Based on aging academic technology, a desire to modernize, and the need to best prepare students for careers in the surrounding tech-advanced Silicon Valley community, SJSU's President's Cabinet has asked for Deloitte's support in developing the institution's academic technology strategy to lay the groundwork for the broader academic technology transformation.

Advance SJSU's mission and enable their academic technology transformation journey to best serve students and faculty by:



Providing a thorough and accurate **Current State Assessment of Academic Technology** across the institution through interviews, detailed documentation reviews, and data analysis



Developing a **Future State Strategic Vision and Plan** grounded in current state findings (incl. pedagogy and teaching and learning needs), industry leading practices and strategies, alignment on the future path forward, and gaps between the current and future state



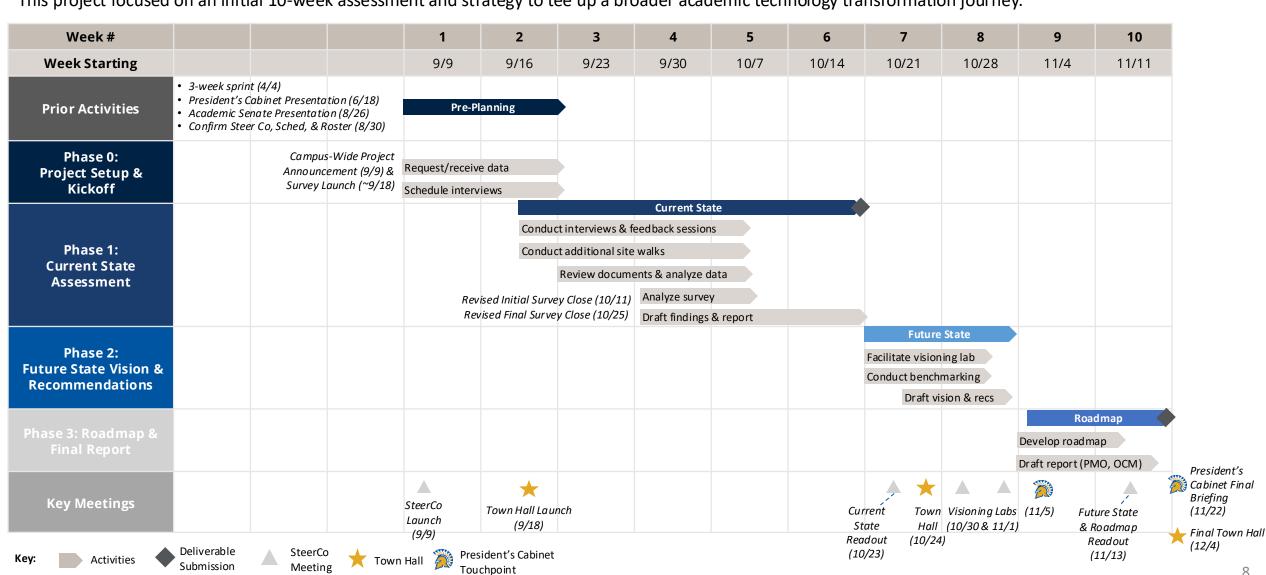
Creating a multi-year Implementation Roadmap with prioritized recommendations integrated into a timeline as well as the associated estimated costs and supporting PMO, OCM, and best practices for adoption of the long-term academic technology transformation and implementation

High-Level Timeline



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This project focused on an initial 10-week assessment and strategy to tee up a broader academic technology transformation journey.



Summary of Future State Recommendations

SJSU's Vision for Academic Technology and Learning Spaces



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The future state vision detailed below has been developed based on a comprehensive collection of information gathered from the Steering Committee visioning

labs, survey responses, and stakeholder interviews.



What does the future hold?

- Flexible Learning Infrastructure: Create adaptable learning spaces that can seamlessly transition between various instructional and work modes without requiring additional planning or manpower.
- Comprehensive Student Support: Implement systems and resources to ensure that every student feels supported in achieving academic success, fostering an inclusive and supportive educational environment.
- Workforce-Ready Learning Opportunities: Provide hands-on learning experiences with cutting-edge technology that students will encounter in the workforce, aligning with SJSU's motto of powering Silicon Valley.
- **Expanded Technology Access:** Ensure that technology and network connectivity are accessible not only on the SJSU campus but also beyond, to bridge the digital divide and support every member of the SJSU community.
- **Showcase Event Spaces:** Develop dedicated event spaces that effectively highlight and showcase SJSU's diverse offerings and institutional strengths.

SJSU should offer state-of-the-art, collaborative, experiential, and inclusive learning spaces that support pedagogy.

We should align to our byline and brand of powering Silicon Valley.

We want to showcase the capabilities SJSU has, but currently don't have a space to do that.



Summary of Future State Recommendations



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By focusing on the following recommendations, SJSU will enable an academic technology and learning space transformation. Note: the recommendations are mapped back to addressing the opportunities identified in the current state report. More details on how these initiatives were prioritized can be found in the implementation & roadmap section.

Academic Technology



1.1 Confirm Minimum Viable Classroom (MVC) with Campus Stakeholders



1.2 Academic Technology Refresh Strategy



1.3 Student Technology Requirements in Syllabus



Physical Classroom and Infrastructure



3.1 Physical Learning Space Upgrade Plan



3.2 Wireless Connectivity



Academic Operations and Support



2.1 Academic Technology Support



2.2 Learning Space Scheduling



Academic Strategy



4.1 Teaching and Learning Strategy



Funding



5.1 Academic Technology and Learning Space Budget and Funding Model

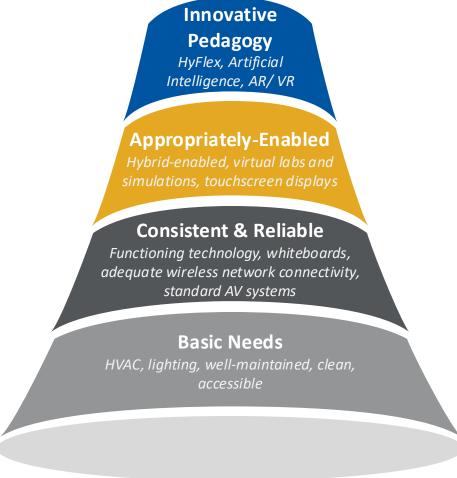


Minimum Viable Classroom (MVC) Concept | Recommended Approach



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The MVC concept will allow SJSU to create a flexible, cost-effective learning space baseline equipped with essential technologies that enhance teaching and student engagement. It ensures that classrooms meet the basic needs of students & faculty, are adaptable to various teaching methods, and can be quickly upgraded or scaled to meet evolving educational needs.



Examples of Learning Space-type Considerations

Smaller Classrooms

Single Projector
Display, A/V User
Connections,
Interactive
Whiteboards, Lecture
Capture Systems,
Modular Furniture,
Charging Stations

Large Lecture Halls

High-definition
Projectors &
Screens, Integrated
Surround Sound
System, Digital
Document Cameras,
Microphone
Options, Lighting
Options

Lab Spaces

3D Printers and Scanners, Computer-Aided Design (CAD) software, Robotics Kits & Components, Laser Cutters & CNC machines

Innovative Tech Pilot Spaces

Virtual Reality (VR) & Augmented Reality (AR), Internet of Things (IoT) development kits, High-performance Computing Workstations, Artificial Intelligence (AI) & Machine Learning (ML) Platforms

Tiering of How to Prioritize Learning Space Upgrades



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When exploring which learning spaces to upgrade to achieve MVC and/or pilot investments, SJSU should consider prioritizing and tiering learning spaces based on these five dimensions and questions. Which spaces host the largest volume of **Highest Impact** faculty and students and are most utilized? & Utilization Which spaces do not have pre-existing **Spaces** infrastructure needs (e.g., HVAC, Wi-Fi, For the investment, lighting)? which spaces will yield **Foundational Return on** the highest and best Infrastructure Investment outcomes (e.g., **Prioritization of** student outcomes, **Upgrades** and utilization, multi-**Pilots** purpose, branding) for the cost required? Leadership Are faculty and college **Equity** leadership aligned on **Prioritization** the importance and Are there equity gaps nature of the upgrade? among colleges or students that should be addressed?

Recommendations by Quadrants – Definitions

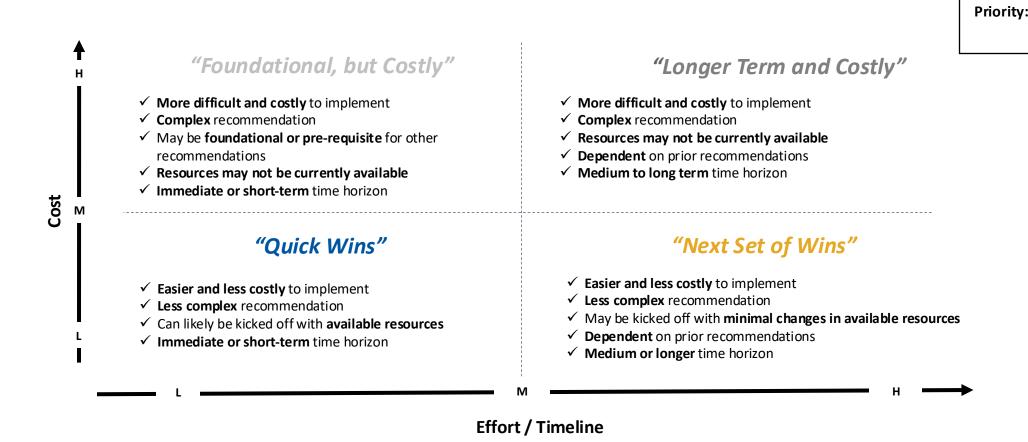


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Now

Next Later

SJSU recommendations were placed in quadrants based on priority, effort / timeline, and cost, and then subsequently laid out on the 3-year implementation roadmap. See the four quadrant categories below.

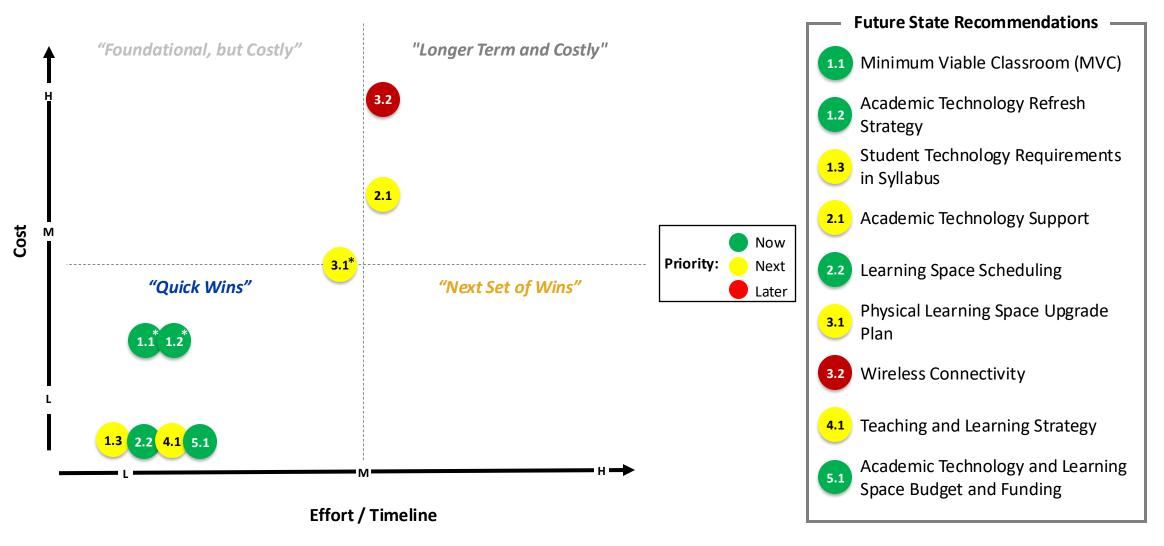


Recommendations by Quadrants



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The recommendation priority, effort / timeline, and cost were determined via conversations with SJSU leadership and past experiences on similar engagements.



Next Steps

Next Steps



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Launching and operating an academic technology program with nine projects is a significant undertaking and invites the questions: What do we do now that we have these recommendations? Where do we go from here?

- **~**
- Seek broader
 stakeholder
 feedback on
 Future State
 Recommendations
 during final Townhall
 on December 4.
- 2 Present Future State report to President's Cabinet on December 9 for final confirmation and prioritization.
- 3 Mobilize overarching governing body to continue the academic technology transformation journey
- 4 **Begin** on prioritized quick wins (e.g., MVC, Academic Technology Refresh Strategy, Learning Space Scheduling)

Remain Informed and Engaged



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The project team has created a website for sharing information, providing updates and event reminders, and for gather input and feedback into the project.

Visit Project Website





The Deloitte team will be available following today's town hall to answer questions or collect feedback to inform the overall effort.

Chat Live



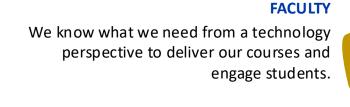
Q & A

Appendix

The Importance of Stakeholder Engagement – Everyone Needs a Seat at the Table



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STUDENTS

As undergraduate and graduate students, we would like a consistent and equitable experience and something that meets our different needs in terms of learning styles and modalities.

PROSPECTIVE STUDENTS

We want to visit campus and classes and be excited about the innovative use of technology.

RESEARCHERS

We need specific technology to engage in our research activities.

UNIVERSITY LEADERSHIP

As CFO, VPSA, Deans, and other leaders, we need technology that supports our overall mission and vision and meets the needs of our students, faculty, and staff.

PROVOST

We need technology that enables teaching and learning, and we want to design the classroom of the future.

FACILITIES

We understand our physical building structures, the pipeline of construction projects, and the underlying infrastructure supporting the classrooms.

IT LEADERSHIP

We want to select academic technology that is integrated, scalable, forward-thinking, and easy to use as well as easy for our staff to support.

In addition to engaging a diverse group of stakeholders, the project is led by a diverse Steering Committee:

Bob Lim Sehtej Khehra Jennifer Redd Traci Ferdolage
Kim Knight
Sahithya Swaminathan

Stefan Frazier Kara Li Ignacia Villavelazquez-Hill

Current State Assessment: Foundation of Findings

Inputs Overview



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Summary information on the four sources of input can be found below with more details later in the presentation.

Data Request

15+

Data sources gathered and analyzed

 Historical data and reports: Classroom technology spending, maintenance processes, and University policies

- Utilization and scheduling data: classroom usage and Lecture Room Inventory (University & college-managed)
- Hardware and software inventory: IMS service catalog, AV inventory lists, and schedule management software
- **Stakeholder-provided data:** Past benchmarking studies and feedback surveys specific to their college or unit

Campus-Wide Survey

Survey Response Distribution

97
61
119
Students Admin & Staff Faculty

- A campus-wide survey was conducted to gather comprehensive feedback from the SJSU community.
- The survey received a total of 277 responses, providing valuable insights.
- The survey was **open for a duration of four weeks** to ensure ample participation.
- **Distribution methods included** a QR code, publication on the project website, and email dissemination.

்ரி Interviews & Town Hall

- A diverse group of interviewees was selected to participate in confidential interviews focused on learning spaces and academic technology.
- Conducted interviews with 100+ individuals across more than 10
 departments and colleges, ensuring a comprehensive understanding
 of various perspectives.
- Hosted an in-person Town Hall on 9/18 with 45+ participants, fostering open dialogue and community engagement.

Site Walks

- Conducted site walks on two separate occasions, visiting nine buildings across the campus and covering several different colleges.
- Focused on observing a broad range of learning space types, including laboratories, small and large lecture rooms, and the Student Union.



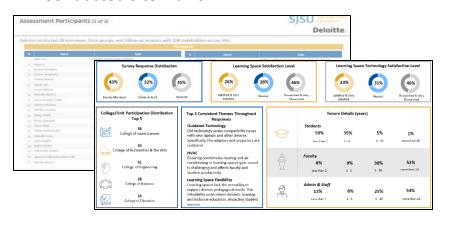
Key Project Activities

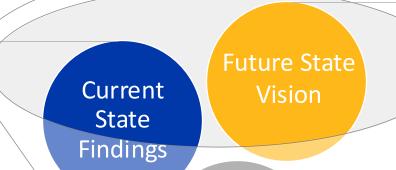


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Current State Activities

- Conducted stakeholder interviews
 across students, faculty, and staff as well
 as two campus-wide townhalls
- Distributed campus-wide survey and analyzed results
- Submitted data request and analyzed provided artifacts (e.g., hardware inventory, learning space utilization data, room diagrams)
- Conducted site walks





Best Practices



Academic Tech Roadmap & Final Report

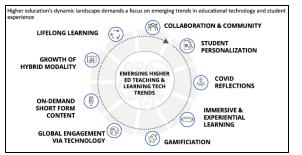
Future State Activities

- Facilitate **visioning labs** to explore tech trends and align on future state academic tech vision and priorities
- Provide higher ed case studies
- Develop future state recommendations
- Build prioritized roadmap with PMO/OCM/adoption considerations

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D	Theme	Priority (now, next, later)
1	Outdated Learning Space Technology and Misalignment to the Silicon Valley Brand	*. × × × ×
2	Defective and Unreliable Learning Space Technology	200
3	Projection Limitations and Deficiencies	**
4	Inconsistent User Experience and Decentralized IT Support	* ×
5	Barriers to Hybrid and HyFlex Pedagogy	** * * *
6	Critical Physical Plant and Deferred Maintenance Needs	40
7	Classroom Utilization and Availability Difficulties	x - x
8	Lack of Teaching & Learning Strategy	* × × ×
9	Funding Shortfalls and Budget Inconsistencies	31. *
10	Outdated Indoor Wi-Fi	* × × ×

Leading Practices

Leverage higher education frameworks, **best practices**, and prior experience on similar engagements



Current State Key Themes: Summary of Strengths



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Our findings and observations were distilled into key themes that highlight both the strengths as well as opportunities to enhance the overall posture of SJSU.

Strengths to Retain and Amplify				
Student-Focused Culture	Foundation of Successful Spaces/Pilots			
Student Focused Support Faculty Commitment	Modern Learning Space Examples			
Loan Programs Accessibility	SJSU Library			
Strong Instructional Support	Leadership Support			
Instructional Support	University Leaders Are Advocates			

Current State Key Themes: Summary of Opportunities



Deloitte.

Our findings and observations were distilled into key themes that highlight both the s	strengths as well as opportunities to enhance the overall posture of SJSU.			
Opportunities to Improve and Enhance				
Non-functioning Academic Technology	Inadequate Academic Operations and Support			
Outdated Learning Space Technology and Misalignment to the Silicon Valley Brand Projection Limitations and Deficiencies	Inconsistent User Experience and Decentralized IT Support			
Defective and Unreliable Learning Space Technology	Classroom Utilization and Availability Difficulties			
Insufficient Physical Classroom & Infrastructure	Lack of Academic Strategy to Drive Technology Decisions			
Critical Physical Plant and Deferred Maintenance Needs Insufficient Indoor Wi-Fi Capacity	Lack of Awareness on Teaching & Learning Strategy Barriers to Hybrid and HyFlex Pedagogy			
Funding Challenges to Meet Academic Technology and Classroom Needs				
Funding Shortfalls and Perceived Challenges with Centralized vs Decentralized Budgets				

Key Current State Findings

Three Fundamental Challenges Limiting SJSU



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What started as an assessment of Academic Technology across SJSU's Learning Spaces quickly uncovered three fundamental challenges limiting SJSU from enhancing the Teaching & Learning experience and demonstrating a general dissatisfaction with academic technology and learning spaces.

1 SJSU lacks investment of adequate funding and resources to appropriately maintain the necessary technology and physical infrastructure that is expected of one of the nation's leading public institutions, and California's oldest public institution.



Less than \$2,000 per learning space per year for IT maintenance and upgrades for spaces centrally managed by IT.¹ Institutional priorities required reallocating or declining nearly \$1.4M of IT classroom funding intended to improve classrooms to baseline expectations.²

Ratio of students-to-IT-Staff of 325:1, one of the most understaffed across CSU, and similar sized national schools.³

2 SJSU faculty and staff struggle to articulate a future vision guided by pedagogical needs due to a lack of focus on optimizing the teaching and learning experience and a greater emphasis on prioritizing basic needs over technology enhancements.

Leave the shiny new

things until

everyone has access

to the basics.

Its like assessing what Porsche I would buy, when I don't have the money to buy the Porsche We don't need cool learning spaces; we need efficacious spaces. Efficacious spaces are life changing.

Basic expectations of students and faculty are unmet, with stakeholders prioritizing basic needs over advanced technology. The most desired features include universal connectivity (e.g., HDMI, USB-C, appropriate dongles), flexible furniture, basic functionality and operability, and clean, comfortable, and safe spaces.

Buildings continue to lack the basics like reliable projectors, speakers, and HDMI connectors.

I'd like to teach through a semester without having to apologize to the students for something in the classroom not working properly. It is all too common for classroom projectors and other systems to malfunction.

3) Source: https://www.sjsu.edu/it/docs/about/IT-Org-Chart.pdf & https://www.sjsu.edu/facts-and-accomplishments/facts.php (ratio = total student headcount / IT staff on Org Chart; compared to other CSU websites) 26

¹⁾ Source: Historical IT spending on classroom technology over last 3-5 years.xlsx

²⁾ Source: IT Budget Request Template 2018-19 through 2020-21 – CATS.xlsx & email exchanges (includes: ~\$400k for HDMI upgrades & ~\$1M for other IT classroom upgrades and enhancements)

Summary of Recommendations (1 of 2)



Deloitte.

• Recommendations are aligned to current state assessment findings and take into consideration SJSU's 2024 Vision, ITS and customer priorities, leading practices, and technology trends.

Area	Title	Recommendation Description
	1.1 Confirm Minimum Viable Classroom (MVC) with Campus Stakeholders	Develop and establish a minimum viable classroom (MVC) as a baseline classroom model that meets essential teaching and learning needs, allowing for rapid deployment and scalability across SJSU.
Academic Tochnology	1.2 Academic Technology Refresh Strategy	Create a comprehensive strategy that aims to systematically upgrade and replace outdated technology to enhance educational delivery, improve operational efficiency, and establish a future-proof infrastructure.
Technology	1.3 Student Technology Requirements in Syllabus	Implement a prerequisite for faculty to include technology requirements in their syllabi prior to the start of classes to ensure students have ample time to procure the necessary software, OS, and/or hardware.
Academic	2.1 Academic Technology Support	Standardize and enhance academic technology support by further centralizing support services, standardizing processes, automating routine tasks, and enhancing communication with stakeholders.
Operations and Support	2.2. Learning Space Scheduling	Continue the effort to centralize all classroom scheduling, enhance the scheduling algorithm, and communicate the processes to all stakeholders involved to provide transparency in classroom scheduling.

Summary of Recommendations (2 of 2)



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• Recommendations are aligned to current state assessment findings and take into consideration SJSU's 2024 Vision, ITS and customer priorities, leading practices, and technology trends.

Area	Title	Recommendation Description
	3.1 Physical Learning Space Upgrade Plan	Develop a comprehensive learning space upgrade plan to ensure all learning spaces across the institution are modern, flexible, and conducive to innovative teaching and learning practices.
Physical Classroom and Infrastructure	3.2 Wireless Connectivity	Develop and execute plan to upgrade and enhance the wireless connectivity across the campus, ensuring robust, high-speed, and reliable connectivity that meets the growing demands of students, faculty, staff, and researchers.
Academic Strategy	4.1 Teaching and Learning Strategy	Develop a university-wide teaching and learning strategy that aligns with the institution's mission and goals, enhances teaching effectiveness, and promotes student success through innovative, inclusive, and evidence-based practices.
\$ Funding	5.1 Academic Technology and Learning Space Budget and Funding	Develop a comprehensive academic technology and learning space budget and funding model that supports the strategic enhancement of academic technologies and learning spaces, ensuring they meet the evolving needs of SJSU students, faculty, and staff.