

Collaboration at San José State University

Enabling an **Unbounded** University

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Terry Vahey
Chief Information Officer
Associate Vice President, IT Services
San Jose State University,
San Jose, California, USA

AGENDA

SJSU Goals, Strategy, Approach

Realizing our **Unbounded** University

Lessons Learned from our Journey / Q&A

San José State University Background



- **Member of the CSU system**
 - 23 campuses
 - 400k+ students
 - 44k faculty
 - Largest, most diverse, in the US
 - One of the most affordable
- **SJSU**
 - #1 supplier of graduates in engineering, computer science, education and business to Silicon Valley
 - ~ 30k students
 - ~ 1.9k faculty
 - On campus residents

Campus Guiding Principles

•Unbounded Learning

- SJSU is an **innovative, engaged learning community** ...
- Our highly regarded faculty members **facilitate unbounded learning** by **actively** engaging with students to **provide a wide range of access to and delivery of learning content** through in- and out-of-the **classroom experiences**.

•Strong and Unique sense of place



Strategic Plan: Vision 2017

Campus Goals

•Unbounded Learning

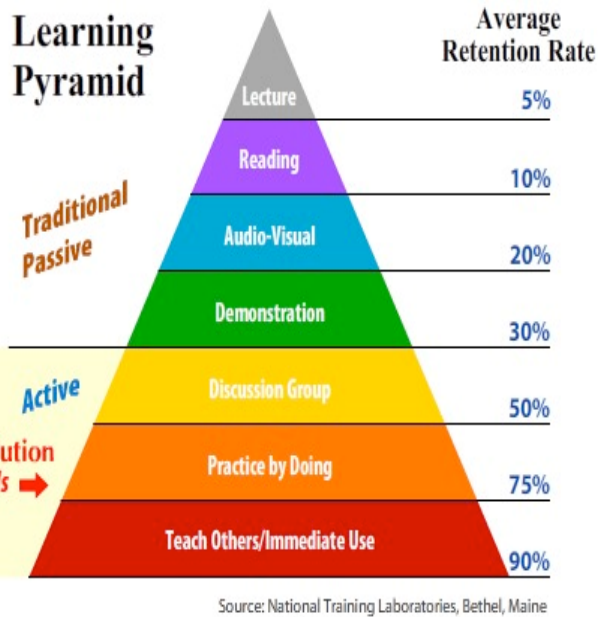
- Enhance student success through continuous learning innovations

•Agility through Technology

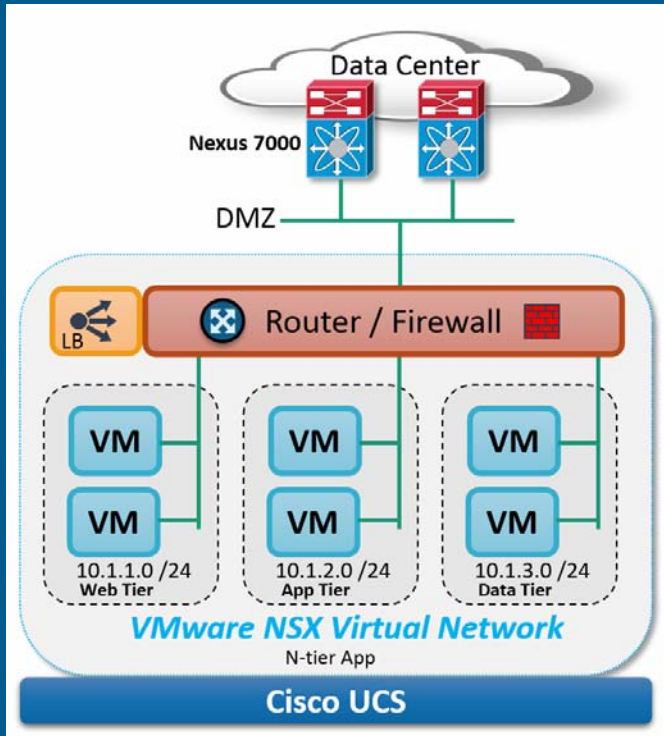
- Improve organizational responsiveness
- Advanced technology infrastructure
- Eliminate procedural obstacles

•21st Century Spaces

- Up to date facilities
- Classrooms that enable collaboration



IT Strategy



- Reduce the mixed environment
- Define success criteria
- Partner with vendors: Cisco, Adobe, Apple
- Buy integrated solutions
 - Proven elsewhere
 - Coordinated upgrade paths
- Seek single point of contact for support
 - Reduce risk to SJSU
 - Reduce finger pointing

Infrastructure Principles: Technology Drivers



- **Collaboration** - Working together is enhanced with technologies that work well together .
- **Integration** — Make products easy for user...make IT easy for people
- **Mobility** — Access anytime, anywhere devices, and mobile devices.
- **Security** - Assets are assessed, secured, and monitored

Designing the **Unbounded** Campus Infrastructure

Next Gen IT Infrastructure



VoIP



Telepresence



WebEx



Network

Collaboration Technologies

- VoIP
- Telepresence
- Lecture Capture
- WebEx
- Jabber
- Next Gen Network
 - Bandwidth
 - Switch, route
 - Wi-Fi

Engineering the **Next Gen Classroom**

Next Gen Classroom

Video Conferencing



Classroom



Lecture Capture



Desktop Collaboration



WebEx , Jabber

- **HD Video to the classroom** – Enable outside experts to visit with students without limitations of distance
- **Lecture/Capture Capability** – record lessons to enable new pedagogies such as flipped classroom
- **Desktop Collaboration** – enable video & desktop collaboration from the classroom to remote students/professors

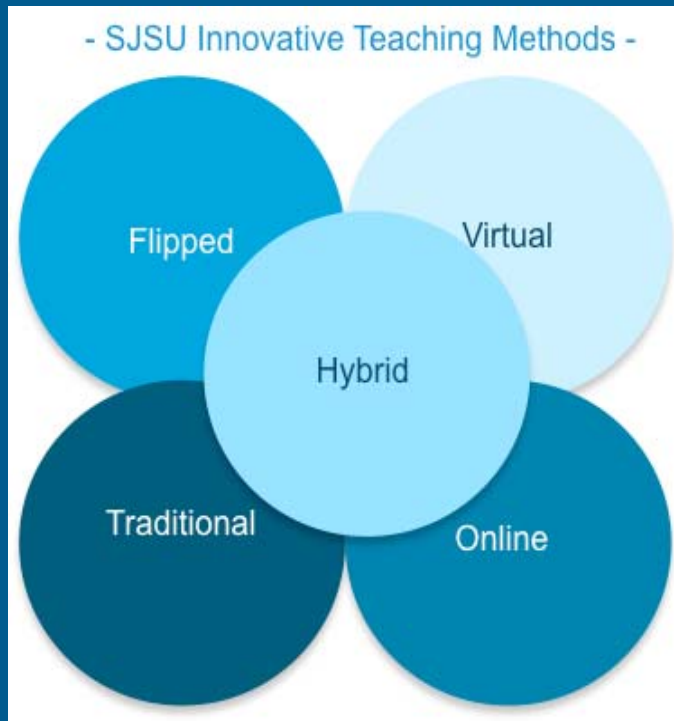
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Enabling our **Unbounded** University



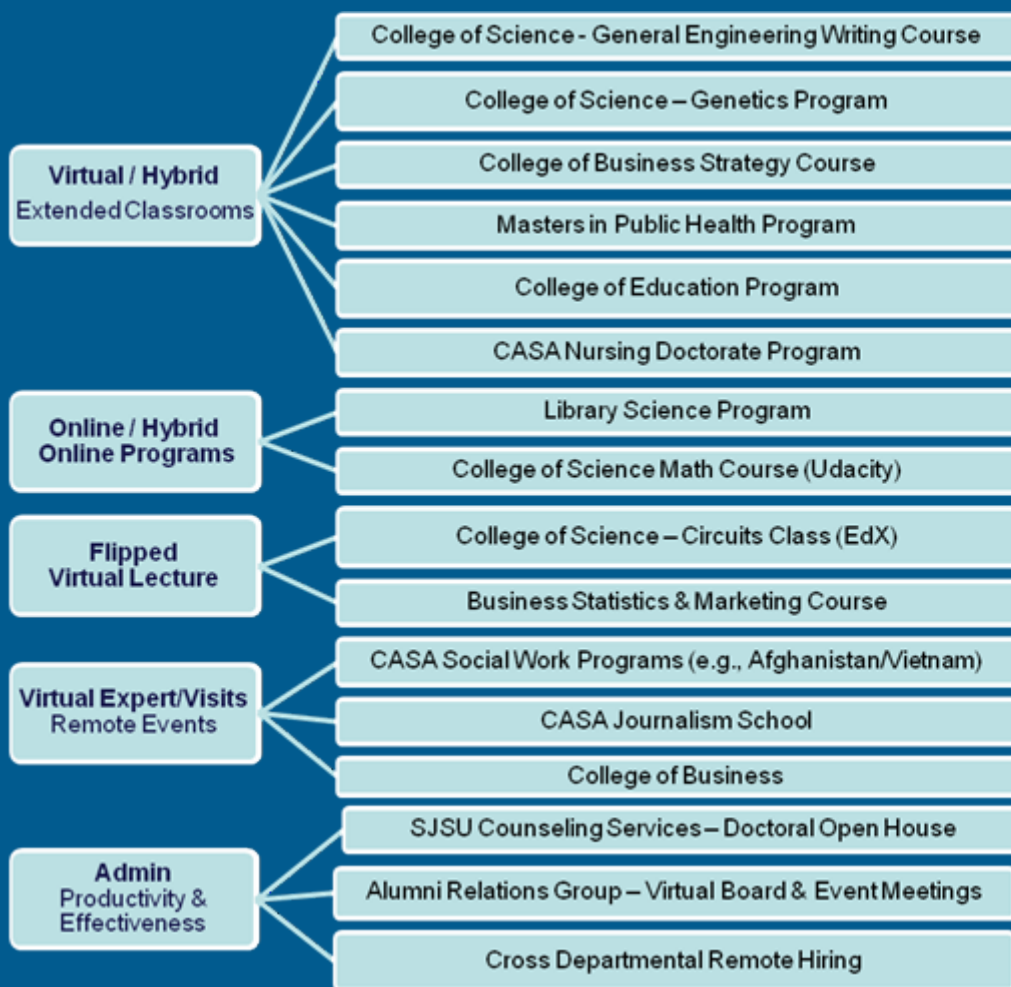
- SJSU has invested in a campus-wide collaboration platform to stimulate innovation in the classroom
- Professors are encouraged to think creatively about best instructional methods, tools, etc.
- SJSU is testing many different innovative academic pedagogical approaches

Next Gen Classroom



SJSU's Journey is underway with a # of **Unbounded** programs

Examples of **Unbounded** Programs



- Piloting collaboration-enabled pedagogies across colleges
- Virtual experts enhance the learning experiences for our students
- Extend existing programs through online courses to remote or other challenged students
- Extend the reach of the university to alumni, CSU community, partners, etc.

Example: Journalism and Mass Communication Advertising Class Hosts Guest Experts

Journalism and Mass Communication

- Student's group advertising projects
- Feedback from New York Ad Agency – industry experts
- Previously: Filmed and sent to New York
- Previously: Feedback coming days or weeks later



Next Gen Classroom Solution

- Classroom connection with New York Ad Agency via Telepresence
- Recording for playback later
- Demonstrating to University administration solutions IT can deliver – indirect support of the academic mission
- More collaborative relationship with deans, provost, academic community

Results: Enhanced experiential learning capabilities; Real-time feedback from industry experts; Ability to watch feedback from industry experts again, later.

Example: College of Education is creating the 21st Century Educators using Next Gen / 21st Century Classrooms

Video Conferencing



Virtual Classroom



College of Education's Goal/Efforts

- Develop tomorrow's leading educators
- 4 years ago started the "21st Century Classroom" program
- Co-teaching program to bring SJSU innovation to today's classrooms

Next Gen Classroom Solution

- Classroom solution includes **SmartBoards**, mobile/flexible furniture, room 'archetypes', WiFi, **Mediascape** video booths
- CoE instituted collaborative applications such as **Skype**, **Webex**, **LMS (D2L -> Canvas)** to extend the classroom
- CoE adopted a 'flipped classroom' approach

Results: The College of Education is establishing a research effort to evaluate the qualitative and quantitative impacts of their 21st Century Classroom Program

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Lessons from our **Unbounded** University Journey

Transformation of a university is more than a technical challenge, the journey requires strong academic leadership, change management, communication and coordination

- Academic Leadership needs to establish **a culture of innovation** and break down the institutional barriers
- Solutions must be **simple to adopt/integrate**
- SJSU's diversified structure requires IT to **effectively communicate**
- IT must be sensitive to campus activities – **making implementation scheduling a critical factor**

Lessons from our **Unbounded** University Journey

Worked Well

- Culture of collaboration with Academic leadership
 - What are their success criteria?
 - Help them be successful
 - When an innovation occurs in one area of a university, it needs to be nurtured and promoted so that it spreads across the entire university
- Customer Service
 - Good enough vs. perfection
 - Get to Yes
- Agility
 - IT is about technology, process, people
 - As we experience technology, or processes, or people in positions, when they aren't working, we need to move on, make changes toward the goal, and don't insist you keep using them
- Collaboration with with vendors
 - Keep vendors invested in your success, partner with them, let them know what's working, what's not, how it's impacting you

Lessons from our **Unbounded** University Journey

Opportunities

- Learning new technologies
 - Large changes in technology architecture means even the most proficient IT staff have opportunities to learn new technologies
 - Change is harder for some than others
 - Consider consulting, best job fit
- Promotion of services to constituents
- Break down the barriers
 - All about collaboration
 - Open Forums
 - Newsletters
 - More communication!

Summary

Enabling our **Unbounded** university is a transformation made possible by collaboration between ITS, Administrative Leadership, Academic Leadership and Students

- Our campus strategic plan **creates focus** and **direction** to meet our goals
- **Infrastructure** enables the technologies at the **foundation** of our **Unbounded** university (e.g., Wi-Fi, Classroom Technology: Lecture Capture, Video Conferencing, WebEx, Virtual Lab & Virtualized Data Center)
- Collaboration platform **stimulates innovation** in the classroom
- Communication, marketing / promotion shares it

Q&A



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