

**Infrastructure and Shared Governance Goal
Technology Infrastructure Subcommittee
Report as of April 6, 2016**

The specific action items for the Technology Infrastructure Subcommittee are to:

- a) Finalize the implementation of the IT Master Plan
- b) Create a UNLV Cyber Security team
- c) Determine appropriate funding sources for improving technology infrastructure

Table 5 below reports progress on the three action items above, as well as progress on technology initiatives that support the action items emerging from other Infrastructure and Shared Governance Subcommittees.

Tables 1 thru 4 summarize progress on key technology action items within the IT Master Plan that advance the goals of the other Top Tier subcommittees.

Alignment of Top Tier Vision, Mission, Goals, and Strategies and the UNLV IT Master Plan

1. Technology to Support Top Tier Research, Scholarship, and Creative Activity						
Goal: Provide a technology environment to advance the Top Tier Research, Scholarship, and Creative Activity Goal <i>“UNLV will foster a climate of innovation in which faculty and students produce high- quality, widely disseminated, and influential research, scholarship, and creative activities.”</i>					Status: Not Started	
Sub Goals	Start Date	Completion Date	Measure	Initial Report	Last Update	Current Status
• Develop options to support research-specific data management needs (RSC 2-5, ITMP A)	TBD	TBD	# Data management plans supported	0	NA	0
• Redesign the UNLV network to support a virtual, secure, expandable, high-speed research network (RSC 2-5, ITMP 6)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Create Research Technology Group to prioritize and coordinate research technology needs (ITMP A)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Provide investigators options for storage and access to large data sets (ITMP A)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Broaden UNLV’s involvement with Internet2 and other technology consortia (ITMP 3)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Provide timely information about IT security issues relevant to the research environment (ITMP 8)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Create interfaces between the new human resource and finance systems and research administration systems (ITMP 9)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Connect the campus-wide document management and research administration systems (ITMP 12)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Additional items TBD	TBD	TBD	Measure TBD	TBD	NA	TBD
<p>Comments on Progress During the Past Six Months: One-time funds have been secured to implement the first phase of a 3-year plan to re-architect UNLV’s network. Equipment is out to bid and deployment is expected to begin July 2016. Year one improvements include support for a virtual high speed research network. New interfaces between research administration systems, finance and human resources systems will be delayed; the timeline will be determined when a revised Workday implementation schedule is confirmed.</p>						

2. Technology to Support Top Tier Student Achievement

Goal: Provide a technology environment that advances the Top Tier Student Achievement Goal <i>“UNLV will be a national leader in education . . . we will recruit, retain, and graduate a diverse body of motivated students through the strength of our innovative learning experiences, access to mentoring and research opportunities, and our vibrant campus community . . .”</i>					Status: Not Started	
Sub Goals	Start Date	Completion Date	Measure	Initial Report	Last Update	Current Status
• Implement tools to streamline admin processes for graduate students (TT RSC 4-7, ITMP B)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Provide new tools and/or data integration to assess student achievement goals (TT SA 2, ITMP B)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Provide new tools and/or data integration to support early warning activities and help track learning outcomes (TT SA 4, ITMP B)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Create an environment (i.e., sandbox) to explore new technologies in teaching and learning (ITMP B)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Expand just-in-time, online, and in-person instructional technology training (ITMP 7)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Provide timely information about IT security issues relevant to protecting student data (ITMP 8)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Interface the new finance and human resources systems and student information systems (ITMP 9)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Connect the campus-wide document management solution to student administration systems (ITMP 12)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Implement student and faculty portals to facilitate access to multiple campus applications (ITMP 14)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Additional items TBD	TBD	TBD	Measure TBD	TBD	NA	TBD
Comments on Progress During the Past Six Months: Above items are included in the final draft of the IT Master Plan; prioritization, timeline and measures of success for those items will be determined after approval of the Plan. New interfaces between student information systems, finance and human resources systems and will be delayed; the timeline will be determined when a revised Workday implementation schedule is confirmed.						

3. Technology to Support Top Tier Academic Health Center						
Goal: Provide a technology environment that advances the Top Tier Academic Health Center Goal <i>“UNLV’s School of Medicine, in collaboration with other health-related units on campus and with external partners, will foster cutting-edge research, use a creative curriculum, and provide top-notch clinical programs.”</i>					Status: Not Started	
Sub Goals	Start Date	Completion Date	Measure	Initial Report	Last Update	Current Status
• Continually align the IT Master Plan with the Academic Health Center Plan (AHC 3, ITMP 2)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Provide support to the Academic Health Center in implementing state-of-the-art technologies for research and outreach (AHC 12, ITMP A,C)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Advise investigators on establishing IT environments that meet the security requirements of their research (ITMP 8)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Provide role-based authorization mechanisms that facilitate collaboration and communication among interdisciplinary research teams (ITMP 10)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Provide consultation on implementing new educational technologies In the School of Medicine (ITMP 10)	1/1/16	TBD	Measure TBD	TBD	NA	TBD
• Oversee IT infrastructure implementation for new Academic Health Center facilities (ITMP 6)	1/1/16	TBD	Measure TBD	TBD	NA	TBD
• Additional items TBD	TBD	TBD	Measure TBD	TBD	NA	TBD
Comments on Progress During the Past Six Months: UNLV IT subject matter experts have provided consultation for the School of Medicine in software selection, audio visual design and network infrastructure planning. UNLV IT staff will continue to provide assistance with implementing new educational technologies and overseeing IT infrastructure implementation on School of Medicine construction projects. Other items above are included in the final draft of the IT Master Plan; prioritization, timeline and measures of success for those items will be determined after presidential approval of the Plan.						

4. Technology to Support Top Tier Community Partnerships

Goal: Provide a technology environment that advances the Top Tier Community Partnerships Goal
“UNLV will stimulate economic development and diversification in, and enrich the cultural vitality of, our community by deepening and expanding reciprocal connections with our partners and leveraging our unique strengths to collaborate locally, nationally, and internationally.”

Status: Not Started

Sub Goals	Start Date	Completion Date	Measure	Initial Report	Last Update	Current Status
• Provide a community dashboard reflecting UNLV’s contributions to the community (CMP 11, ITMP 13)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Utilize the CIO to develop mutually beneficial technology collaborations among local, state, regional, and federal entities (ITMP 3)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Implement a Customer Relations Management system for targeted communications with community groups (ITMP 14)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Implement tools that facilitate connections among university alumni (ITMP C)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Collaborate with local educational organizations to help students master technologies used in higher education and the global workforce (CMP A2D, ITMP 4)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Re-architect the technology infrastructure to meet the needs of units engaged in community collaboration (ITMP 6)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Improve identity management services to facilitate collaboration with non-profits (ITMP 10)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Support mobile access at conferences, public events, and entertainment venues (ITMP 11)	TBD	TBD	Measure TBD	TBD	NA	TBD
• Additional items TBD	TBD	TBD	Measure TBD	TBD	NA	TBD

Comments on Progress During the Past Six Months: The above items are included in the final draft of the IT Master Plan; prioritization, timeline and measures of success will be determined after presidential approval of the Plan.

5. Technology to Support Infrastructure and Shared Governance

Goal: UNLV will continually develop and leverage the conditions necessary for success, which will include an effective organizational structure, a state-of-the-art infrastructure, a service-oriented culture, meaningful faculty engagement in shared governance, and the capacity for informed decision-making and informed risk-taking in support of UNLV's Top Tier mission.

Finalize IT Master Plan – ISG 6A						
Goal: Implement a comprehensive technology environment that supports UNLV's Top Tier vision, mission, goals, and strategies while infusing security into every future technology decision.					Status: In Progress	
Sub Goals	Start Date	Completion Date	Measure	Initial Report	Last Update	Current Status
• Plan finalized to align with new Top Tier initiatives	05/06/15	05/01/16	% Complete	95%	NA	95%
• Plan approval	05/01/16	06/30/16	% Complete	0%	NA	0%
• Plan implementation - Tech Advisory Committee	07/01/16	12/31/19	# Action Items Completed	0	NA	0
• Plan implementation - Tech Review Board	09/15/16	12/31/19	# Action Items Completed	0	NA	0
• Plan adjustments to maintain Top Tier alignment	06/15/16	12/31/19	# Action Items Changed	0	NA	0
Comments on Progress During the Past Six Months: IT Master Plan revisions to align with Top Tier have been completed. The revised IT Master Plan will be submitted to President Jessup in May for final approval.						

Cyber Security Team – ISG 6B						
Goal: Ensure a cross-organizational approach to the development and implementation of comprehensive security strategies.					Status: Not Started	
Sub Goals	Start Date	Completion Date	Measure	Initial Report	Last Update	Current Status
• Team formation	08/01/16	10/31/16	% Complete	0%	NA	0%
• Annual security priorities Identified	09/30/16	06/30/19	% Complete each Year	0%	NA	0%
• Progress on priorities	01/01/17	12/31/19	# Action Items Completed	0	NA	0
Comments on Progress During the Past Six Months: Cyber security team will be established when the IT Master Plan is approved and Tech Advisory Committee is convened.						

Improving Technology Infrastructure – ISG 6C

Goal: End UNLV reliance on enterprise technology infrastructure that has exceeded manufacturer recommended end-of-life (EOL) and/or recommended capacity.

Status: Not Started

Sub Goals	Start Date	Completion Date	Measure	Initial Report	Last Update	Current Status
• Network access infrastructure - Equipment*	11/30/15	TBD	% Supported (not EOL)	0%	NA	0%
• Server infrastructure - Equipment	TBD	TBD	% Supported (not EOL)	44%	NA	44%
• Server infrastructure - Not oversubscribed	TBD	TBD	% With Available Capacity	59%	NA	59%
• Data center - Equipment not oversubscribed	TBD	TBD	% With Available Capacity	100%	NA	100%
• Wireless management infrastructure	06/30/16	12/31/16	% Complete	0%	NA	0%
• Wireless overlay plan	TBD	TBD	% Complete	0%	NA	0%
• Current wireless infrastructure - Equipment	TBD	TBD	% Supported (not EOL)	TBD	NA	TBD
• Campus indoor space – Wireless acceptable	TBD	TBD	% Space Acceptable Wireless	TBD	NA	TBD
• Campus indoor space – Wireless inadequate	TBD	TBD	% Space Inadequate Wireless	TBD	NA	TBD
• Campus indoor space – No wireless coverage	TBD	TBD	% Space Without Wireless	TBD	NA	TBD
• Campus outdoor space – Wireless acceptable	TBD	TBD	% Space Acceptable Wireless	TBD	NA	TBD
• Campus outdoor space – Wireless inadequate	TBD	TBD	% Space Inadequate Wireless	TBD	NA	TBD
• Campus outdoor space – No wireless coverage	TBD	TBD	% Space Without Wireless	TBD	NA	TBD

Comments on Progress During the Past Six Months: Requirements for a three-year plan to re-architect UNLV’s network, server and data center have been identified. One-time funds have been secured for the first year’s procurement and the equipment is out to bid. Implementation is expected to begin in July 2016. Timelines will be updated once the initial procurement is completed.

Wireless overlay plan must be completed and performance metrics for adequate coverage defined prior to assessing the wireless infrastructure status.

* This measure is defined from a security rather than an asset inventory perspective. If network access is relying on EOL routers at any network layer (Access, Distribution, Core) UNLV counts the percent of network access infrastructure equipment supported as zero. While a portion of UNLV access routers are supported all currently rely on unsupported core and distribution routers.

Business Process Support: Enterprise Document Management and Electronic Workflow Component – ISG 5

Goal: Provide technology that improves business practices and reduces redundancy of information. (ISG 5) **Status:** In Progress

Sub Goals	Start Date	Completion Date	Measure	Initial Report	Last Update	Current Status
• Create an enterprise document management plan	07/01/16	TBD	% Complete	0%	NA	0%
• Form a governance structure	03/31/16	TBD	% Complete	0%	NA	0%
• Select software, procure licenses	TBD	TBD	% Complete	0%	NA	0%
• Pilot	TBD	TBD	% Complete	0%	NA	0%
• Campus deployment	TBD	TBD	# Units Utilizing System	0	NA	0

Comments on Progress During the Past Six Months: Campus deployment will not commence until Workday initial implementation is completed. The timeline will be determined when a revised Workday implementation schedule is confirmed.