Oglala Lakota College Technology Plan

2018 to 2023

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Technology Plan 2018-2023

(Draft)

A. Introduction

This Technology Plan for Oglala Lakota College is meant to align with the OLC Strategic Plan. The goal of the Technology Plan is to provide a framework for meeting the technology needs of the stakeholders of Oglala Lakota College. The Technology Plan was developed with input from the Technology Committee, the Technology Director and the Vice-President for Business. An executive summary of the technology needs assessment and the network evaluation is attached. The raw data from these documents is on file with the Assessment Director.

B. History of Technology at Oglala Lakota College

Oglala Lakota College has historically been an innovator in the use of instructional technology. OLC acquired personal computers in the early 1980s which were used with small LANs for instruction in word processing, databases and spreadsheets. In the early 1990s internet access was provided through dial-up connections and a 56k line to SDSM&T. In 1995 the BIA provided a T-1 for internet access. A VAX/VMS student management system was used in the 1990s which was later replaced with the Jenzabar system we use today. OLC's WAN was first utilized for videoconferencing in 1996 when T-1s were installed at Pejuta Haka and Pine Ridge. During the 21st century, OLC rapidly expanded its online presence with content management servers, blogging, a wiki, audio and video streaming as well as content filtering.

An institutional technology plan was first developed at Oglala Lakota College during the 2003-04 academic year. This plan and its successors provide the framework for numerous important activities involving computer and communications technologies. Technology resources, including hardware, software, networks, and support staff, have assumed increasingly important roles in the higher education enterprise. Given the rapidly changing nature of the technology environment, it is critical that institutional technology planning be strategic. Toward this end, a college technology planning committee was formed during the 2002-03 academic year.

The process is continually refined. This may involve, but is not necessarily limited to: reviewing progress toward existing Plan goals; modifying, deleting, or adding goals as necessary; identifying responsibility for particular plan activities; suggesting timelines for the completion of activities; recommending funding priorities to the Vice President for Instruction and the Vice-President for Business, and the Institutional Development and Instructional Affairs committees on matters related to instructional technology. Its' charge is to foster innovation and promote appropriate use of technology

for the entire Institution. The Technology Committee together with the department of Technology Support Services (TSS) provides the entire Institution with the apparatus necessary for good analysis and decision making.

For the current (2018-23) planning cycle, Technology Committee members decided to address specific needs voiced by the students and staff of Oglala Lakota College. The technology needs assessment enabled the committee to identify and focus on the more significant issues, in an effort to better set the College direction in these important areas. Additionally, an external consultants have been retained for the purpose of a network evaluation. Many of their recommendations will be implemented through this planning process.

C. Current and Future Initiatives

Funding sources used for technology initiatives include Technology Fees, Title III funds. Initiatives are completed in the order of need as determined by the Technology Committee and the Administration and the Board of Trustees.

Current initiatives as of the spring of 2018 are:

Maintenance of computer labs.

Update laptop carts.

Increase Internet bandwidth at Pejuta Haka, Pine Ridge and Pahin Sinte college centers to 25 MBps.(completed 8/2017)

Develop, Install, Configure Mobile Application (completed 12/2018).

Redesign/Rebuild, remove Flash, accelerate website with a new theme (completed 1/18).

Increase internet bandwidth at various locations.

Replace edge firewalls for anticipated future bandwidth. (Completed 1/2018)

He Sapa / MidContinent Communications upgraded to 1000/20 Mbps (Completed 2/2018)

GWTC served college centers upgraded to 100/10 Mbps (Completed 1/2018)

Cheyenne River College Center / CRSTA upgraded to 100/50 Mbps (Completed 2/2018)

Acquired 4g LTE AT&T hotspot for East Wakpamni College Center. (Completed 10/2017)

Continue seeking institutional consensus for migration to Google Suite for Education / gmail. Migration scheduled for July, 2018.

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Future initiatives include:

Continue with scheduled 5-year hardware replacement.

Re-cable 2nd floor Piya Wiconi Building to Category 6 specification.

Re-cable Pine Ridge College Center to Category 5e specification.

Implement LibreNMS network monitoring software package.

Upgrade Early Alert system (mandated by Jenzabar – required June, 2018)

Replace laptops in 4 laptop carts, distribute refurbished laptops from carts to other college centers. (Ordered)

Install Wireless Access Points in every classroom. (Requisitioned)

Replace unmanaged gigabit switches with managed gigabit switches

Add academic department budget line item for cloud-based videoconferencing

Continue student laptop purchase program.

Continue to provide technology training when requested.

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Technology Needs Assessment Executive Summary

In the spring of 2017, a technology needs assessment was conducted at Oglala Lakota College. Students and staff were asked to respond to a web-based survey. The staff and students overall are fairly well satisfied with existing technology solutions although frustrations with slow internet were expressed and are being addressed. In February 2018, a cyberinfrastructure study was completed. Recommendations included training need assessments, paid IT student internships in each college center, standardized classrooms, academic department subscriptions to cloud based videoconferencing solutions, consolidating to a single Learning Management System, purchasing 4g hotspots for transportation vans.

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Network Evaluation Executive Summary

An onsite review of the OLC network was conducted during February of 2018. Recommendations included: Wireless Access Point installation in every classroom, replacement of unmanaged switches with managed switches, implementation of LibreNMS network monitoring software package, upgrading to 1 Gbps internet service when available.