

UCFSD Three Year Technology Plan 2021-2023

Technology Mission Supports UCFSD Mission

UCFSD Mission Statement

*Empower each student to succeed in life
and contribute to society.*



UCFSD Tech Dept. Mission Statement

*Provide the highest quality
technology-based services, in the most
cost-effective manner, to facilitate the
district mission as it applies to
management, teaching, and learning.*

UCFSD Three Year Technology Plan 2018-2021 Recap

Accomplishments - End User Computing

- Created a five year staff and student device replacement cycle
- Standardized on a Chromebook solution for 2nd - 12th grade students
- Standardized on an iPad solution for K-1st grade students
- Standardized on a Macbook or Windows device for staff
- All staff have mobile computing to support work in meetings and virtual work (if required)
- Centralized printing solution with security
- Streamlined student device repair process

Accomplishments - Classroom Tech

- Replaced all sound systems in the classroom and conference spaces
- Added web cameras to all classrooms for document cameras/video
- Smart interactive panel rollout - 33% complete
- Created Youtube solution for delivery of morning announcements and other district events
- Added Zoom and Google Meet for video/audio conferencing

Accomplishments - Information Systems

- Completed Powerschool cleanup based on 2017 audit
- Moved Powerschool to cloud technology
- Moved Transfinder to cloud technology
- Upgraded our finance systems
- Added new enrollment system for new student registration
- Integrated RevTrak solution for accepting credit card payments with Powerschool
- Added eCollect system for collecting information tied directly with Powerschool
- Clever rollout for single sign on and application delivery
- Seesaw LMS Rollout

Accomplishments - Network and Server

- Created five year replacement cycle for all network equipment
- Standardized on network, firewall, and wireless vendor
 - Cisco
 - Aruba
 - Palo Alto
- Added dark fiber connection from all Elementary schools to the high school
- Implemented server and network monitoring system
- Replaced all Fiber connections at UHS and CFPMS
- Replaced the direct burial fiber between UHS and CFPMS
- Consolidated all servers/appliances to one location
- Upgraded server network to latest technology with VMWare
- Created an upgrade cycle for all firmware/software updates for all equipment
- Cleaned up old routing tables and configurations
- Robust network and wireless access in UHS Stadium

Accomplishments - Security

- Perform yearly security audit on entire network
- Created a cybersecurity training program for staff
- Created a cybersecurity plan
- Created role based rights in Powerschool for staff roles
- Added additional system alerting
- Least Restrictive Access model

Accomplishments - Systems Management and Automation

- Staff and student account management automation
- PDQ Deploy for Windows software and system management
- JAMF Pro for Mac and iPad software and system management
- Cloud management for all staff/student accounts
 - Google and Microsoft Office 365
- Implemented a helpdesk, change management and inventory system
- Created a new hire, change and termination process - staff

Accomplishments - Phone System

- Consolidated the phone server to one location with remote survivable access at each location (June 2021)
- Cleaned up all hunt group and automatic call distribution scripts and logic
- Created virtual extension solution to support remote phone use using a laptop

Accomplishments - Tech Cross Training/Knowledge Base

- Continued to build our tech knowledge base with the help desk system
- Cross training team members on various services and products
- Building documentation and run books on all systems and processes

Tech Team

- Lisa Dorazio
- Matt Fogleman
- Ryan Dadalski
- Jen Graper
- Kim Van der Mooren
- Scott Dixon
- Judy Jones
- Austin Van der Mooren
- Noah Krey
- Scott Duggan
- Todd Picard
- Dave Carter
- Bill Hirt
- John Walsh
- Brian Marshall

Thank you!

Executive Summary

- Plans implemented from our previous technology plan will continue
- Expand on system security and security training for employees
- Strategic focus on educational technology, processes and procedures

Purpose of Plan

The purpose of the plan is to provide a roadmap of initiatives and investments to meet the technology needs of UCFSD for the next three years.

Keep the Lights
On/Refresh End of
Life Equipment

Execute
Board-Approved
Initiatives

Educational
Tech/Process and
Procedure

Evaluate Emerging Solutions

Technology Priorities

Keep the Lights On/Refresh End of Life Equipment

- Design and implement and maintain technology security program
- Stay current on hardware and software
- Support mission critical systems
- Replace aging classroom systems
- Replace aging staff devices

Execute Board-Approved Initiatives

- Continue K-12 iPad/Chromebook Initiative
- Continue network refresh program
- Improve network resiliency and redundancy

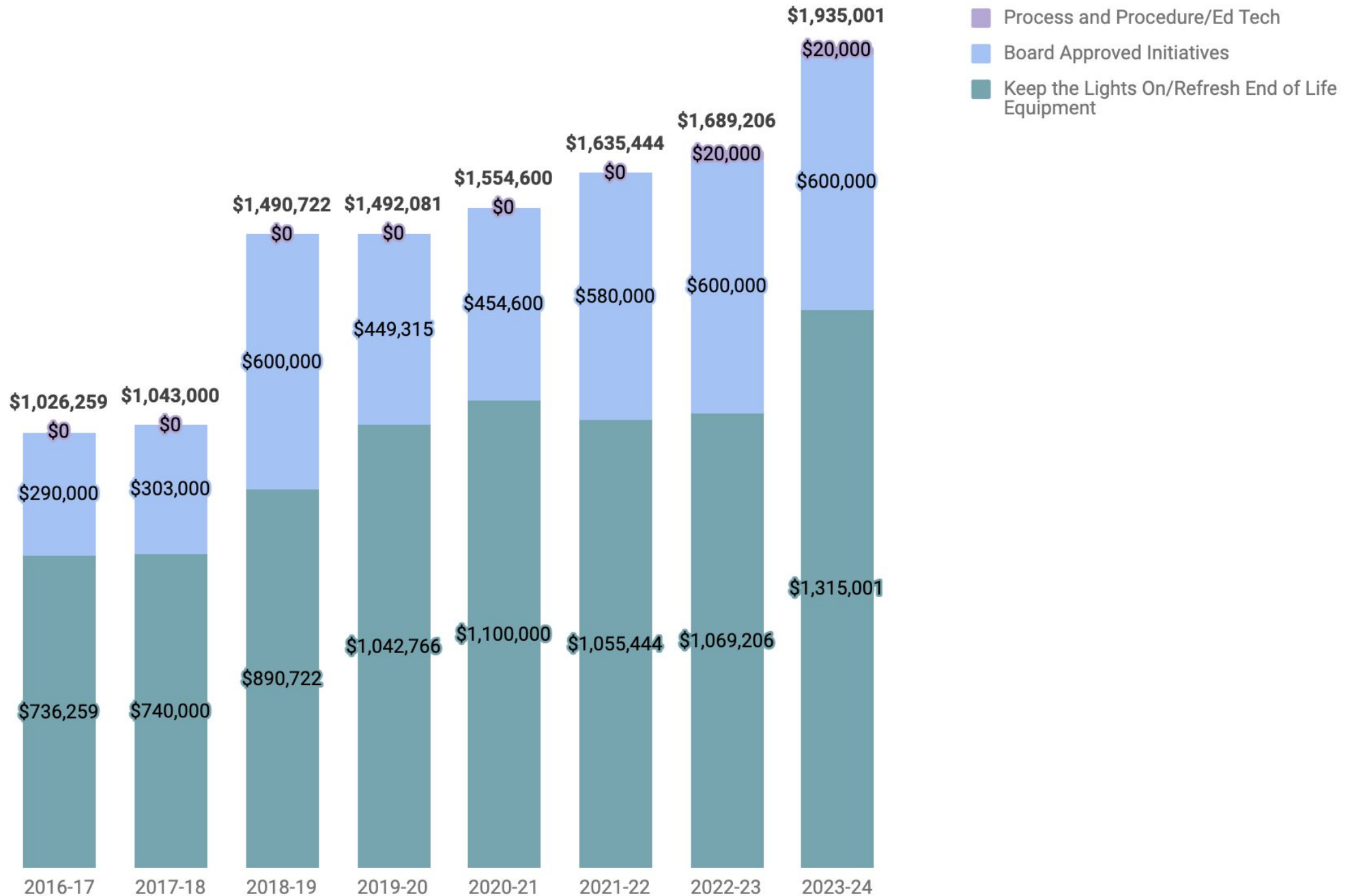
Educational Tech/Process and Procedure

- Develop process and procedures for business and staff/student
- Develop Educational Technology Track for Staff/Students/Guardians
- Develop Onboarding Solutions for Staff/Students/Guardians

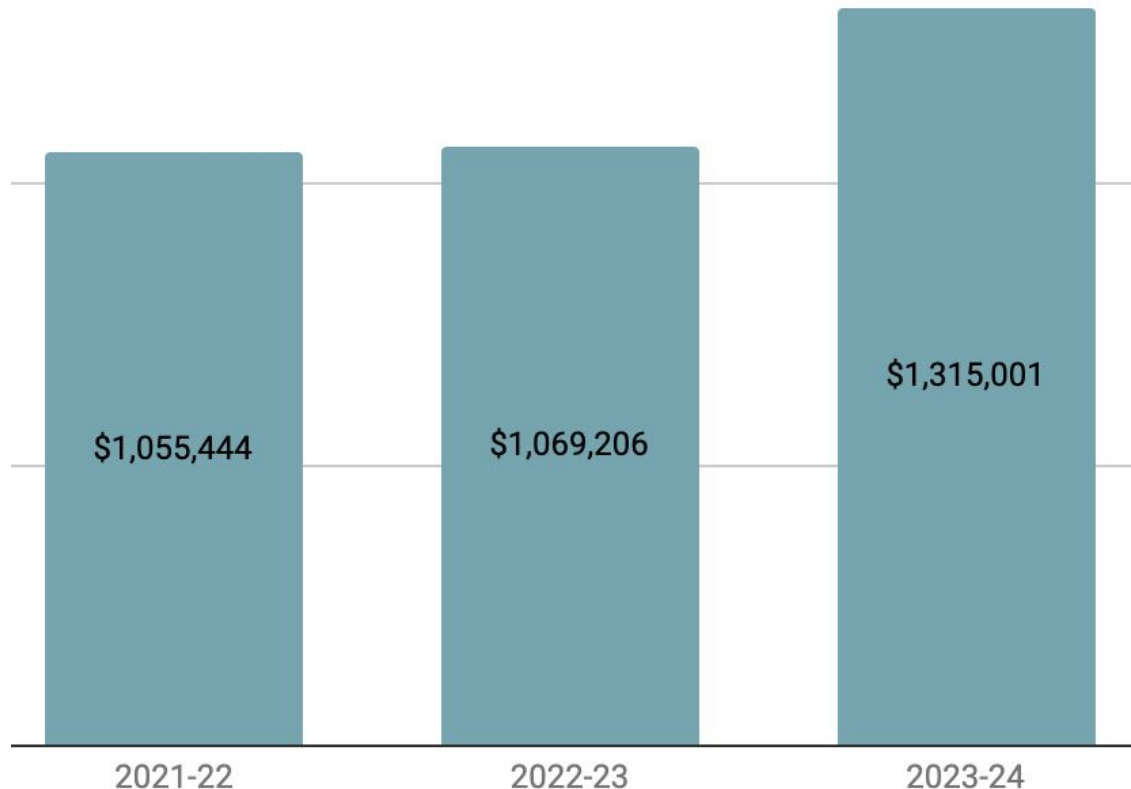
Evaluate Emerging Solutions

- Assess new classroom technologies
- Assess district office automation opportunities
- New Educational Technology opportunities

Budget Details by Year



Keep The Lights On/Refresh End of Life Equipment



Contracts and Services

- Security Testing
- Software and Hardware Contracts
- Telecommunications

Technology Equipment

- End User Device Replacement
- Server Replacement
- Break/Fix Replacements

Classroom Technology

- Smart interactive panel replacements
- Classroom Phone System
 - ~\$250,000 Placeholder in 2023-24

Board-Approved Initiatives



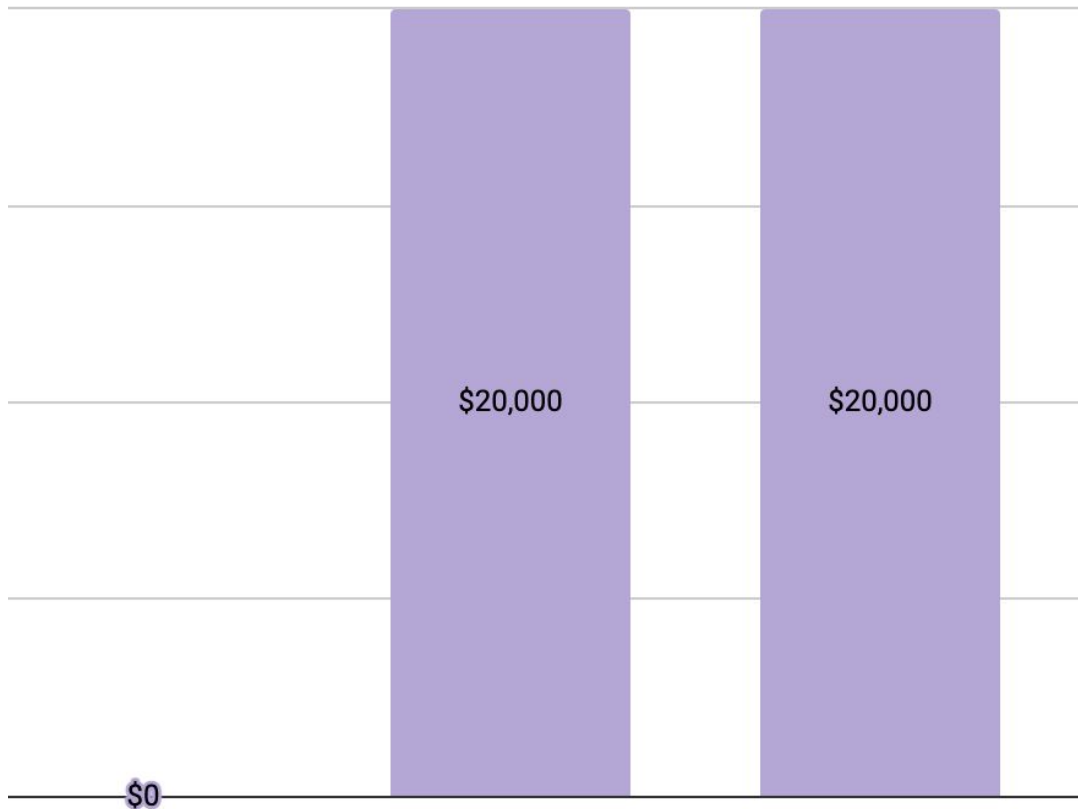
Technology Initiative - K-12

- ~\$500,000 per year for devices

Network Refresh Cycle

- ~\$100,000 a year
 - Utilize eRate rebate

Ed Tech/Process and Procedure



Process and Procedure

- Continue development of Knowledge Base
- Continue to cross train staff
- Refine onboarding/offboarding process for students and staff
- Develop student registration process
- Work with educational leaders to develop better ways to do processes with tech
- Develop and maintain IT controls for audit

Education Technology

- Develop staff track for educational technology offered by district
- Maintain Powerschool Training Program
- Creative Office hours/PD Opportunities

Key Takeaways

- First three year plan becomes a part of our fabric
- Investing in stable and secure systems
- Investing in security and security training
- Executing board-approved initiatives
 - Technology Initiative
 - Network Improvements
- Keeping current through planned refresh of equipment
- Continuing to evaluate emerging technology solutions
- Adding procedure and process as a key goal for technology
- Continue to develop educational technology for the district

Questions or Comments

Appendix: District Goals Breakdown

Initiative 1 - Technology Equipment Refresh

	2021-22	2022-23	2023-24
Initiative 1: Technology equipment refresh	\$ 397,194.00	\$ 412,685.00	\$ 383,059.00
Keep the lights on committed funds - Carryover from previous plan			
o Staff end-user device replacement			
o Student end-user device replacement			
o Classroom technology device replacement			
o Server system replacement			

Initiative 2 - Technology Contracts and Services

	<u>2021-22</u>	<u>2022-23</u>	<u>2023-24</u>
Initiative 2: Technology contracts and services	\$ 343,250.00	\$ 331,521.00	\$ 356,942.00
Keep the lights on committed funds - Carryover from previous plan			
o Maintenance contracts on all mission critical network and server hardware			
o Telecommunication contracts for telephone and internet connections			
o Support contracts with key software solutions that support curricular applications			
o Licensing contracts on network and server software			
o Staffing development			
o Security testing			
o Support contracts for all desktop software			

Initiative 3 - Technology Initiative (K-12)

	2021-22	2022-23	2023-24
Initiative 3: Technology initiative (K-12)	\$480,000.00	\$ 500,000.00	\$ 500,000.00
Board approved initiative - Carry over from previous plan + K-5			
o Full rollout of Chromebooks for grades 2nd - 12th			
o Full rollout of iPads for grades K-1st			
o Web filtering controls			
o Classroom management tools			
o Protective cases			

Initiative 4 - Network upgrade, refresh cycle, and redundancy

	2021-22	2022-23	2023-24
Initiative 4: Network upgrade, refresh cycle, redundancy and backup	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00
Board approved initiative - Carry over from previous plan			
o Replacement of network switches, firewalls, access points, and UPS devices			
o Add additional security and monitoring controls			
o Centralized management of all network equipment			

Initiative 5 - Classroom Technology Refresh

	2021-22	2022-23	2023-24
Initiative 5: Classroom technology refresh	\$ 250,000.00	\$ 250,000.00	\$ 250,000.00
Replacement Cycle - Carry over from previous plan			
o Replacement cycle for projection systems in classrooms, including removal of old and all peripherals			

Initiative 6 - Classroom telephone system upgrade

	<u>2021-22</u>	<u>2022-23</u>	<u>2023-24</u>
Initiative 6: Classroom telephone system upgrade	\$ 0	\$ 0	\$ 250,000.00
Replacement Cycle - New Costs in 2023-24			
o Address Classroom phones			

Initiative 7 - Security Program - Business and Staff

	<u>2021-22</u>	<u>2022-23</u>	<u>2023-24</u>
Initiative 7: Security Program - Business and Staff	\$ 65,000.00	\$ 75,000.00	\$ 75,000.00
Keep the Lights On - Maintain and New initiatives			
o Perform a yearly security test on our environment			
o Review and update the Cybersecurity Continuation Plan and BCP Plan			
o Maintain maintenance on current security software			
o Staffing Development for Phishing and other email scams			
o Install new programs to assist the technology group in protecting our environment			
o Install malware protection on all servers and workstations			

Initiative 8 - IT Process and Procedures - Internal

	<u>2021-22</u>	<u>2022-23</u>	<u>2023-24</u>
Initiative 8: IT Process and Procedures - Internal	\$ 0	\$ 10,000.00	\$ 10,000.00
Ed Tech/Process and Procedure - New Initiative			
o Continue to develop our IT knowledgebase			
o Continue to cross train our staff			
o Develop and maintain IT Controls for system access - Audit Controls			
o Continue to develop staff onboarding/offboarding and student onboarding/offboarding			
o Continue to develop our student registration process			
o Work with our educational leaders to develop better ways to do processes with tech			

Initiative 9 - Educational Technology Program

	<u>2021-22</u>	<u>2022-23</u>	<u>2023-24</u>
Initiative 9: Educational Technology Program	\$ 0	\$ 10,000.00	\$ 10,000.00
Process and Procedure/Ed Tech - New Initiative			
o Develop a Canvas Track for all educational technology solutions offered district wide			
o Maintain current Powerschool Training program for new staff and existing staff			
o Create/offer office hours and PD tracks for teachers related to educational technology			
o Offer creative opportunities to our staff to enhance their knowledge on our current tech			