

PPSD Information Technology Project Goals

Overview -

This working document captures the Information Technology Division project initiatives and their status within a certain project timeline (FY 21-25). This document will assist the PPST IT Division and District Leadership on capturing current Technology Project status, future Technology Project vision, Technology budgeting needs and the need pertaining to human capital within the Technology Division.

Communication Projects

These projects focus on improvements and needed upkeep of all district IT communication platforms.

Initiative: Communications Projects				
Recommendation:	Potential Funding Source(s):	Local and Federal		
Projects Outlines *Denotes that Project has already started.	Timeline and Funding Year:			
	Year 1 21/22	Year 2 22/23	Year 3 23/24	Year 4 24/25
1. True monitoring system for current Cisco VOIP solution that services all Administration buildings and schools (CLA, CEN, PCTA and NBM)				X
2. *Replacement of End of Life PBX Phone, Intercom and PA systems within all schools. (Using Grading System)	X	X	X	X
3. *Replacement of Bell and Clock Systems (Using Grading System)	X	X	X	X
4. *Create a Grading System that captures current status of each communication tool within each building	X			
5. Expanding all Communications systems to cover non-teaching areas including hallways, bathrooms, locker rooms, etc.			X	X
6. Converting current licensing for all Cisco VOIP systems to Flex lic.		X	X	X

Initiative: Communications Projects (Funding Outline)			
Projects Outlines *Denotes that Project has already started.	Funding Details		
	One Time	Recurring	
1. True monitoring system for current Cisco VOIP solution that services all Administration buildings and schools (CLA, CEN, PCTA and NBM)		Y	
2. *Replacement of End of Life PBX Phone, Intercom and PA systems within all schools.		Y	
3. *Replacement of Bell and Clock Systems		Y	
4. *Create a Grading System that captures current status of each communication tool within each building	Y		
5. Expanding all Communications systems to cover non-teaching areas including hallways, bathrooms, locker rooms, etc.		Y	
6. Converting current licensing for all Cisco VOIP systems to Flex lic.		Y	

Administration Building Infrastructure (Network) Projects

These projects focus the improvement and upkeep of network infrastructure equipment within the administration building. The Information Technology Division has designed a robust network infrastructure that will support future growth needed by district leadership. This will include available secure access by all device platforms, expanding remote employee access and providing secure connections to outside partner networks.

Initiative: Administration Building Infrastructure (Network) Projects				
Recommendation:	Potential Funding Source(s):	Local and Federal		
Projects Outlines *Denotes that Project has already started.	Timeline and Funding Year:			
	Year 1 21/22	Year 2 22/23	Year 3 23/24	Year 4 24/25
1. *IDF switch replacements		X		
2. *Firewall between district and city network		X		
3. Expand licensing on the Wi-Fi flex controller				X
4. *Cloud solutions to capture, protect O365 solution and add ATP services (Advance Threat Protection)		X	X	X
5. True Disaster Recovery Solution to protect all hosted district systems and data			X	X
6. *Expand Remote Access for Employees to internal resources		X		
7. Redundancy of WAN services with ISP			X	X
8. Upgrade of server and storage (san) hardware			X	

Initiative: Administration Building Infrastructure (Network) Projects (Funding Outline)			
Projects Outlines *Denotes that Project has already started.	Funding Details		
	One Time	Recurring	
1. *IDF switch replacements	Y		
2. *Firewall between district and city network	Y		
3. Expand licensing on the Wi-Fi flex controller	Y		
4. *Cloud solutions to capture, protect O365 solution and add ATP services (Advance Threat Protection)		Y	
5. True Disaster Recovery Solution to protect all hosted district systems and data	Y	Y	
6. *Expand Remote Access for Employees to internal resources	Y		
7. Redundancy of WAN services with ISP		Y	
8. Upgrade of server and storage (san) hardware	Y		

School Building Infrastructure (Network) Projects

These projects focus the improvement and upkeep of network infrastructure equipment within the district's school buildings. The Information Technology Division will continue its momentum and current vision of working with the Erate program to secure funding to support current eligible projects. The Division will also expand its current grading system to include non-teaching areas, resulting in updating its current project plan outline and provide a robust network throughout all areas within the school building.

Initiative: School Building Infrastructure (Network) Projects					
Recommendation:		Potential Funding Source(s): Local and Federal (Erate)			
Projects Outlines *Denotes that Project has already started.		Timeline and Funding Year:			
		Year 1 21/22	Year 2 22/23	Year 3 23/24	Year 4 24/25
1.	*Continue Erate projects focusing on upgrading, expanding and retiring EOL network equipment	X	X	X	X
2.	*Expanding all Wi-Fi coverage to non-teaching areas including hallways, bathrooms, locker rooms, etc.			X	X
3.	*Network MDF and IDF Cooling Unit new installs and replacements		X	X	X
4.	*Continue to expand the Technology Assessment Grading System to capture true equipment status and support the equipment refresh plan	X	X	X	X

Initiative: School Building Infrastructure (Network) Projects (Funding Outline)			
Projects Outlines *Denotes that Project has already started.		Funding Details	
		One Time	Recurring
1.	*Continue Erate projects focusing on upgrading, expanding and retiring EOL network equipment		Y
2.	*Expanding all Wi-Fi coverage to non-teaching areas including hallways, bathrooms, locker rooms, etc.		Y
3.	*Network MDF and IDF Cooling Unit new installs and replacements		Y
4.	*Continue to expand the Technology Assessment Grading System to capture true equipment status and support the equipment refresh plan		Y

Security Projects

These projects focus on improvements and needed upkeep of all district IT Security platforms. The Information Technology Division has done an excellent job keeping all district Technology resources as protected as possible. This includes implementing security controls, documentation on procedures, introducing MFA, patch management, established vendor partnerships (MS-ISAC) and a robust backup system. The Information Technology Division needs to stay focused and ahead of the daily threats as it has in the past. The projects below will support that focus.

Initiative: Security Projects					
Recommendation:		Potential Funding Source(s): Local and Federal			
Projects Outlines *Denotes that Project has already started.		Timeline and Funding Year:			
		Year 1 21/22	Year 2 22/23	Year 3 23/24	Year 4 24/25
1.	Replacement of Cisco ISE Solution with Zero Trust security solution			X	X
2.	Network Intrusion Detection Solution			X	
3.	*Expand XDR platform throughout the district to include Apple products and Add-on services		X	X	X
4.	*Pilot Cisco DNA Solution			X	
5.	*Staff Multi-Factor Authentication Project	X	X	X	X
6.	*Cybersecurity Full Audit review (Pen Test, Phishing Test, MSISAC Test)	X		X	
7.	Implement Cybersecurity awareness training for employees. (Knowbe4)			X	X

Initiative: Security Projects (Funding Outline)			
Projects Outlines *Denotes that Project has already started.	Funding Details		
	One Time	Recurring	
1. Replacement of Cisco ISE Solution with Zero Trust security solution	Y	Y	
2. Network Intrusion Detection Solution		Y	
3. *Expand XDR platform throughout the district to include Apple products and Add-on services		Y	
4. *Pilot Cisco DNA Solution			
5. *Staff Multi-Factor Authentication Project	Y		
6. *Cybersecurity Full Audit review (Pen Test, Phishing Test, MSISAC Test)		Y	
7. Implement Cybersecurity awareness training for employees. (Knowbe4)		Y	

Network Server Software Projects

These projects focus on improvements and needed upkeep of all district IT Server software platforms. The Information Technology Division currently has a very solid process in place that captures critical patching schedules, a true testing environment to vent new software platforms and direct partnerships with manufactures for support. The Information Technology Division remains focused on following best practices and planning for needed migrations prior to the software platform reaching End Of Live or End Of Support status.

Initiative: Network Server Software Projects				
Recommendation:	Potential Funding Source(s): Local and Federal			
Projects Outlines *Denotes that Project has already started.	Timeline and Funding Year:			
	Year 1 21/22	Year 2 22/23	Year 3 23/24	Year 4 24/25
1. *Upgrading remaining servers OS (2019)		X	X	
2. Expand server environment with Azure cloud services			X	X
3. *Migration to Office 365	X	X		
4. *Migration to Microsoft's In-Tune		X	X	X
5. Upgrade VMWare environment			X	X

Initiative: Network Server Software Projects (Funding Outline)			
Projects Outlines *Denotes that Project has already started.	Funding Details		
	One Time	Recurring	
1. *Upgrading remaining servers OS (2019)	Y		
2. Expand server environment with Azure cloud services		Y	
3. *Migration to Office 365		Y	
4. *Migration to Microsoft's In-Tune		Y	
5. Upgrade VMWare environment		Y	

End-User Projects (Software)

These projects focus on improvements and needed upkeep of all district end-user software platforms. These projects follow the same outline from the previous section above.

Initiative: End-User (Software) Projects					
Recommendation:		Potential Funding Source(s):	Local and Federal		
Projects Outlines *Denotes that Project has already started.		Timeline and Funding Year:			
		Year 1 21/22	Year 2 22/23	Year 3 23/24	Year 4 24/25
1.	Migration to Office 365		X	X	
2.	Upgrading Windows OS to Version 11			X	X
3.	Expand Go Guardian solution to include Beacon (student safety tool)			X	
4.	Expand the current ESports Teams within the district at the high school level. (Apply Standard Setup)				X
5.	Expand Gopher Little SIS Web App Pilot within the district				X

Initiative: End-User (Software) (Funding Outline)			
Projects Outlines *Denotes that Project has already started.		Funding Details	
		One Time	Recurring
1.	*Migration to Office 365		Y
2.	Upgrading Windows OS to Version 11		Y
3.	Expand Go Guardian solution to include Beacon (student safety tool)		Y
4.	Expand the current ESports Teams within the district at the high school level. (Apply Standard Setup)	Y	
5.	Expand Gopher Little SIS Web App Pilot within the district to assist with Google Classroom		Y

End-User Projects (Hardware)

These projects focus on improvements and needed upkeep of all district end-user devices. Extremely important that the Information Technology Division provides a vision that presents a sustainable device refresh plan that is affective and supports the vision moving forward by district leadership. Maintaining the current purchasing cycle that the district has in place is critical. Support from District leadership is key for all projects below.

Initiative: End-User (Hardware) Projects					
Recommendation:		Potential Funding Source(s): Local and Federal			
Projects Outlines *Denotes that Project has already started.		Timeline and Funding Year:			
		Year 1 21/22	Year 2 22/23	Year 3 23/24	Year 4 24/25
1.	*3 rd , 6 th and 9 th Grade Chromebook yearly Project.	Y	Y	Y	Y
2.	*Replacement of Chromebook devices (3180) that have hit EOL	Y	Y	Y	Y
3.	*Replacement of Windows devices that have hit EOL.	Y	Y	Y	Y
4.	*Next phase of Smartboard purchases for all schools.	Y	Y	Y	Y
5.	*Expand Wi-Fi access at student homes	Y	Y	Y	Y

Initiative: End-User (Hardware) Projects (Funding Outline)			
Projects Outlines *Denotes that Project has already started.	Funding Details		
	One Time	Recurring	
1. *3 rd , 6 th and 9 th Grade Chromebook yearly Project.		Y	
2. *Replacement of Chromebook devices (3180) that have hit EOL		Y	
3. *Replacement of Windows devices that have hit EOL.		Y	
4. *Next phase of Smartboard purchases for all schools.		Y	
5. *Expand Wi-Fi access at student homes		Y	

Information Technology Management Projects

These initiatives set forth by the district's SITO is critical to ensure that the Information Technology Division is on a path of improving certain internal division processes. This will ensure that the Information Technology Division is providing the highest level of technical services to all customers. These customers include PPSD students, families, community and all district staff. Projects below to highlight that are most important would be to add additional staff to the overextended Information Technology Division focusing on developing a true Cybersecurity department. Also refocusing the district's standards for Technology equipment. This will allow the Information Technology Division to define a true support model that will be successful for our customers. Both projects will have a direct connection to the improvement of services provided by the Information Technology Division.

Initiative: Management Projects				
Recommendation:	Potential Funding Source(s): Local and Federal			
Projects Outlines *Denotes that Project has already started.	Timeline and Funding Year:			
	Year 1 21/22	Year 2 22/23	Year 3 23/24	Year 4 24/25
1. Adding team members, Helpdesk Manager, Helpdesk Tech, Security Engineer and Manager	Y	Y	Y	Y
2. Support Services Contract and Retainer to assist with opening of school, Cybersecurity and other projects throughout the year		Y	Y	Y
3. Rollback Technology equipment current menu by implementing Technology standards throughout the district			Y	Y
4. Update the current Change Control process				Y
5. Improve the Orders Team process			Y	

Initiative: Management Projects (Funding Outline)			
Projects Outlines *Denotes that Project has already started.	Funding Details		
	One Time	Recurring	
1. Adding team members, Helpdesk Manager, Helpdesk Tech, Security Engineer and Manager		Y	
2. Support Services Contract and Retainer to assist with opening of school, Cybersecurity and other projects throughout the year		Y	
3. Rollback Technology equipment current menu by implementing Technology standards throughout the district	Y		
4. Update the current Change Control process	Y		
5. Improve the Orders Team process	Y		