Smart Schools Bond Act

Board of Education Presentation

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Pittsford Schools

What is the Smart Schools Bond Act (SSBA)?

- The SSBA was passed by New York State voters in the November 2014 General Election.

- The purpose of the $2 billion dollar act is to improve educational technology and infrastructure to improve learning and opportunity for students throughout the state.

- Pittsford total allocation:
$1,509,818

SSBA Areas of Focus:

According to New York State Guidance Documents:

1. Install high-speed broadband or wireless internet connectivity for schools and communities;

2. Acquire learning technology equipment or facilities including but not limited to: interactive whiteboards, computer servers, desktops, laptops and tablet computers;

3. Construct, enhance and modernize educational facilities for pre-kindergarten programs or to replace portable, temporary classrooms;

4. Install high-tech security features in school buildings/campuses.

Smart Schools Investment Plan (SSIP) District Process
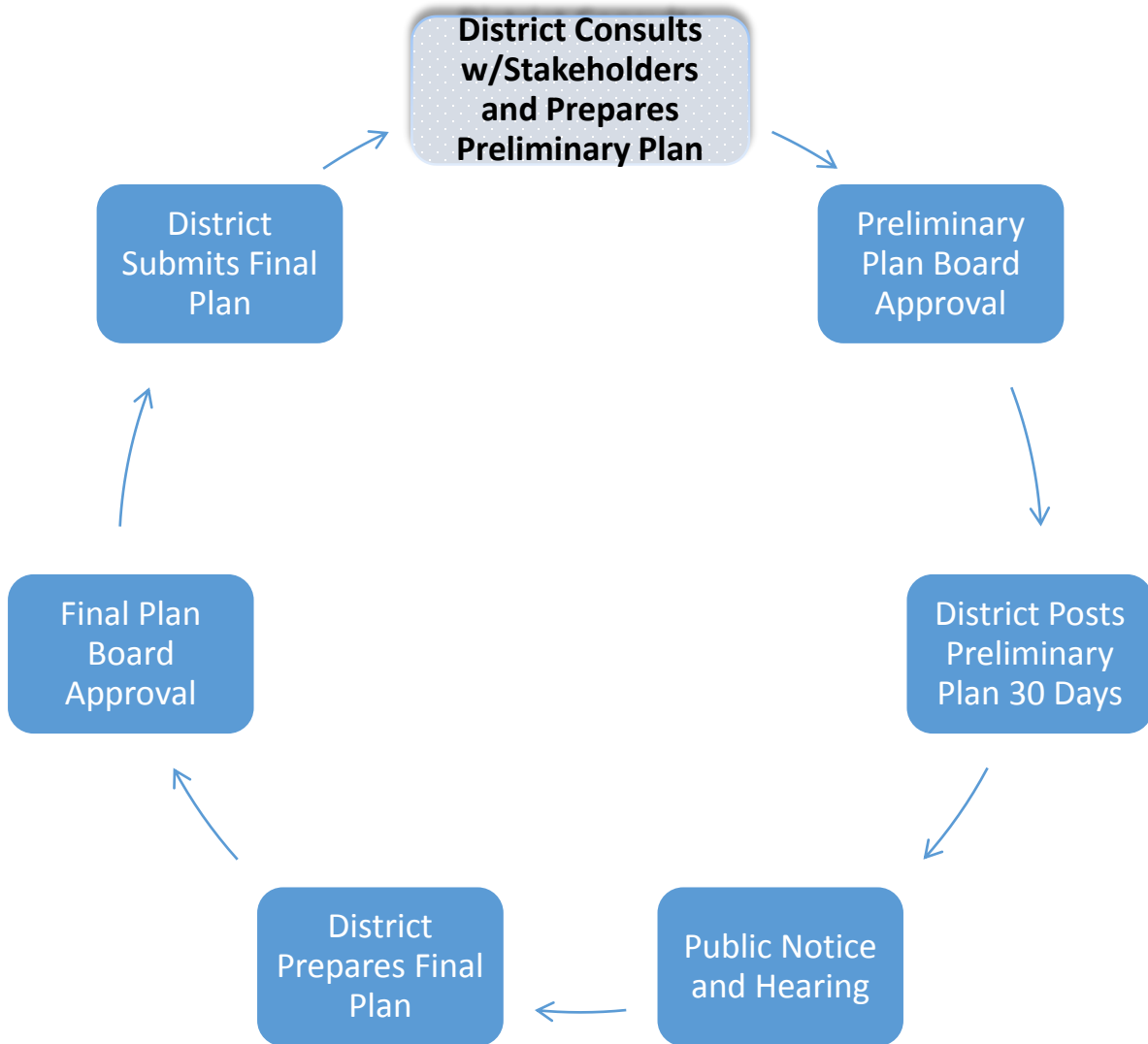
PCSD Process

Step 1: Met with District Technology Committee, BOCES, County Technology Directors, and Vendors.

Step 2: Meet with Central Office Team and District Planning Team to seek input and feedback.

Step 3: Director of Technology posts our Smart Schools Investment Plan to PCSD webpage for community input for 30 days.
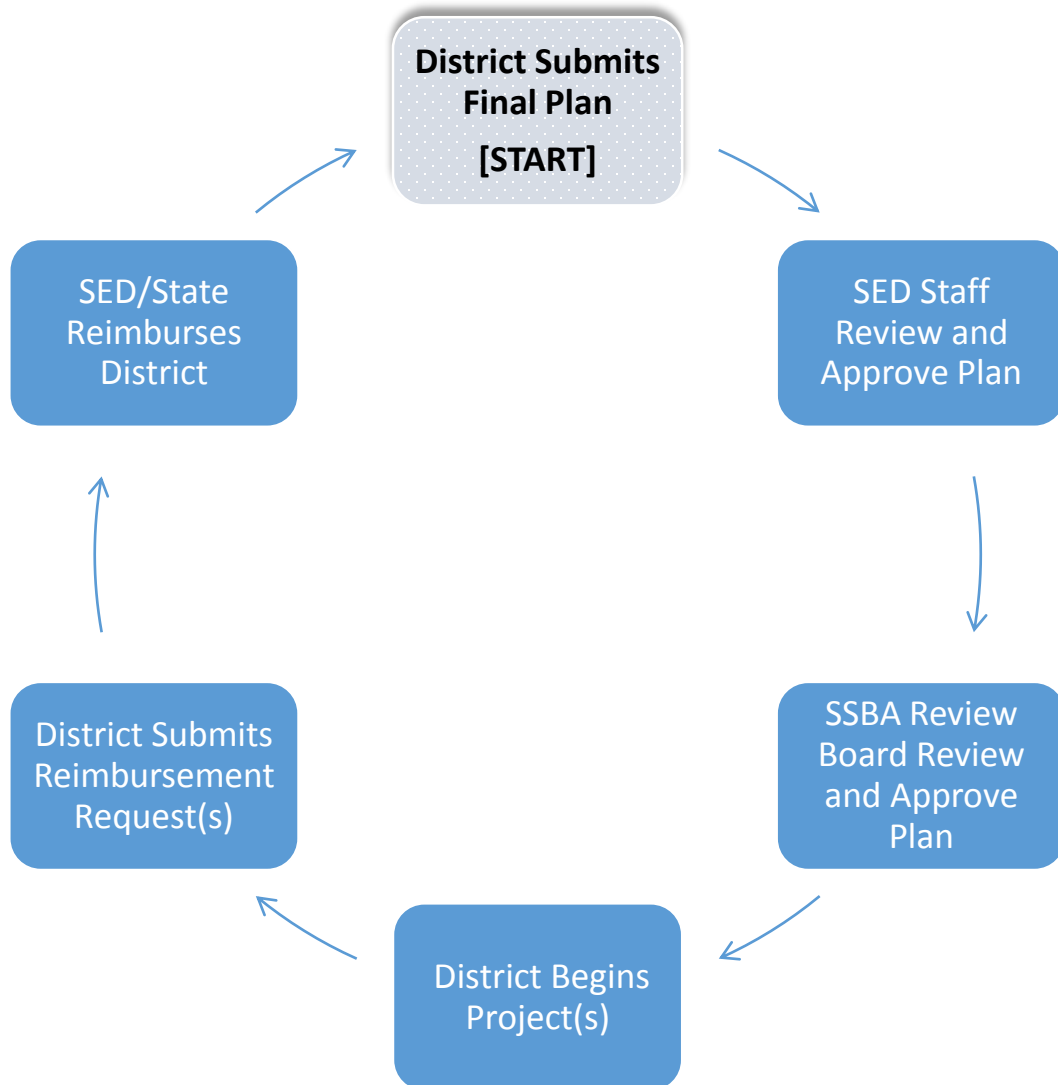
Step 4: Board of Education hosts a first read of the Smart Schools Investment Plan for community.

Step 5: Update SSIP based on feedback from stakeholders from public forum, posting on our website, and Board of Education input.

Step 6: Board of Education approves SSIP.

Step 7: Submit SSIP to state.

Smart Schools Investment Plan (SSIP) Approval Process

District Submits Final Plan [START]

SED Staff Review and Approve Plan

SSBA Review Board Review and Approve Plan

District Begins Project(s)

District Submits Reimbursement Request(s)

SED/State Reimburses District

Step 1: District submits plan to State Education Department. (Targeted March)

Step 2: If a district has included any capital projects, the Office of Facilities planning has to approve. (PCSD can skip)

Step 3: SSBA Board at State level may approve plan. (Potentially May) If not approved, they will send back to PCSD for further revisions. (This can be a lengthy process including several months)

Step 4: When approved, PCSD Tech department can begin purchasing equipment. (Targeted early summer)

Step 5: After purchased and installed, PCSD Tech Department will have to prove with invoices that the work is complete and then turn in invoices to State for reimbursement. (Targeted Sept.)

Step 6: State should reimburse district within 90 days. (Potentially November.)

Decision Making Process to Date

Met with:

District Technology Management Committee:
- April 2016, May 2016, September 2016, October 2016, November 2016, December 2016

Director of Operations, Maintenance and Security

Regional Technology Directors

BOCES representatives multiple times

Vendors
- Cisco/ SMP/ BOCES for phone configurations (3 times)
- Cisco/ Dyntek/ BOCES for network infrastructure (3 times)
- Fusion Digital for laptops, desktops and display technology
- Dell Technology for laptops, desktops and display technology
- Apple for iPads

SSBA Four Areas of Focus
Current State:

| Install High Speed Broadband or Wireless Connectivity	Acquire learning technologies	Building accommodations for Pre-K and trailers	Install High Tech Security Features
Due to a recent PCSD Capital Project, wireless infrastructure was enhanced to provide 95% coverage in instructional areas throughout our 11 buildings.	Through TechQuest 7, our District technology plan, and district budget funds we have: interactive whiteboards, desktop, laptops, and tablets. But, more and more faculty members are asking for equipment to support instruction.	PCSD does not have a Pre-K program at this time.	Discussions with Director of Buildings, Grounds and Security, we have identified over 300 cameras throughout the District, a visitor badge system, an employee badge system, internal door locks hardware, magnetic exterior door locks and a phone system with limited security options.

SSBA Considerations:

- Must have adequate infrastructure
  (Not funded by SSBA)

- No funding provided for Professional Development

- No funding for ongoing technical support

- Districts must show sustainability without further SSBA funding for consumables

- Non-public schools receive an allocation if funding is used for classroom devices

- SSBA is a reimbursement: items have to be purchased with District funding

Infrastructure Upgrades

- **Aging network equipment**
  - 10 data closet switches failed in the past year due to:
    - Construction project
    - Loss of power
    - Age in relation to equipment's end of life
- **Core switch**
  - Due to come off warranty
  - End of life
  - Not the same as SHS – making management difficult
- **Upgrade will allow for:**
  - Growth of computing devices
  - Faster and additional throughput from BOCES to our network and between buildings
  - Building capacity for the next 10 years
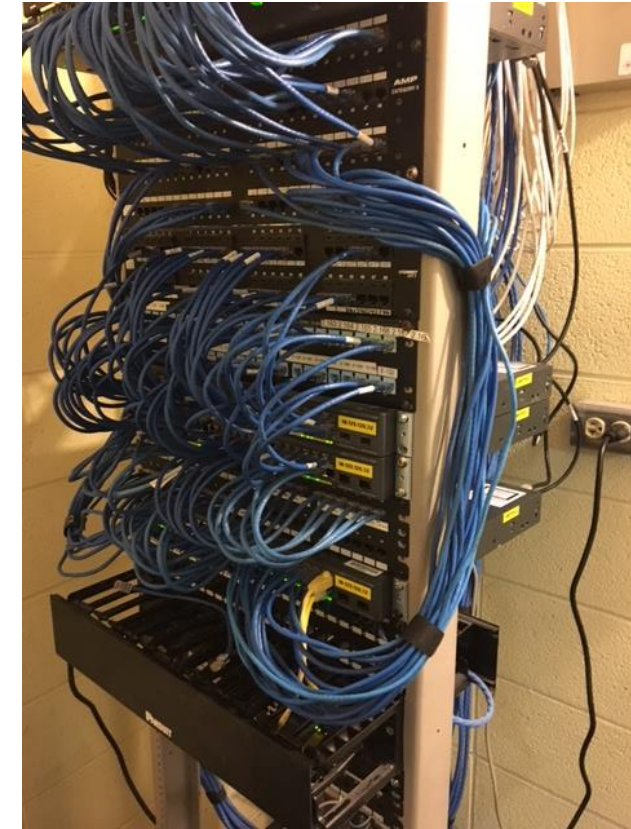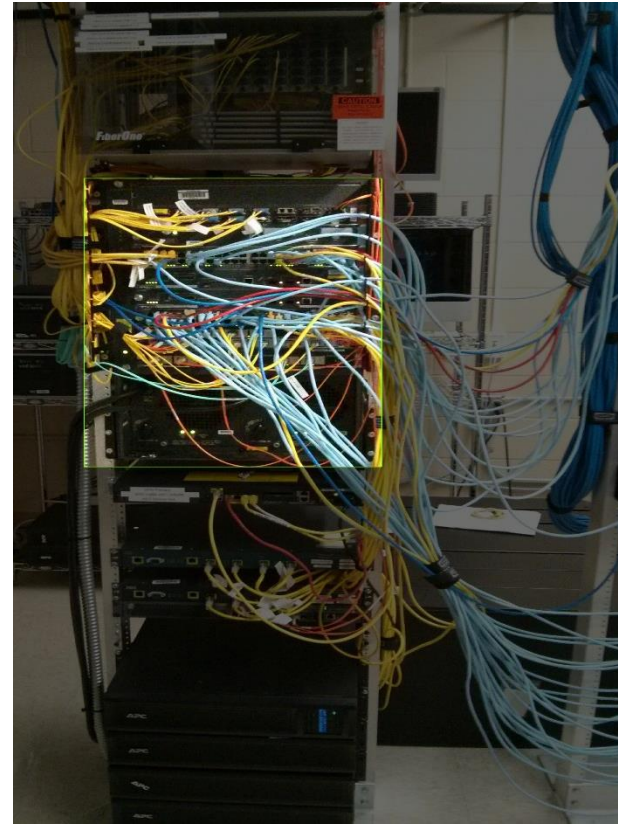
Data Closet Switch

Core Switch

Phase 1

Area of Focus for PCSD Proposed Infrastructure Upgrades:

Current Equipment	Current Age	Current Location	Purpose	Replacement Equipment	Cost Per State Contract
Core Switch (6500)	10-15 years old	BRMS NOC	Controls all network processing in the district.	Cisco 4500 (same as SHS) and all components	
Data Closet Switches	8-12 years old	Throughout District	Connects all technology (wireless access, laptops, phones, etc.) back to our core switches	79 – 2960x switches and components	
Virtual Private Network (VPN)	9 -10 years old	BRMS NOC	Allows individuals secure remote access from outside of the district	ASA 5512x and all components	
				Total:	**Plan not to exceed $ 440,073.**

Phase 1

Security Upgrades
Purpose:

- Aging phone equipment
  - 10 -15 years depending on phone purchase date
  - Phone breakage due to construction projects and usage
  - General wear and tear
- Will allow for additional security features to be employed from phone**
  - Paging system
  - Phone break through
  - Messaging system that will show text messages on screen
  - Additional speed buttons for programming of emergency numbers (nurse, main office, etc.)

7941 model

8841 model

Phase 1

** Will require additional software purchase to support

Area of Focus for PCSD Proposed Security Upgrades:

Current Equipment	Current Age	Current Location	Purpose	Replacement Equipment	Cost Per State Contract
Phones: - 210 – 7912s - 15 - 7936's - 652 – 7940's - 154 – 7960 - 88 - 8945 - Total: 1078 (57 non-active)	10-15 years old	Throughout District	Main point of contact for teachers to office, community, etc.	Cisco 8841- K- 9s and components	
Analog Telephone Adapter (ATA) - 16 (5 non active)	10-15 years old	Throughout District	Connects traditional analog devices (existing telephone jacks) (phones, fax machines etc.) to our Voice over Internet Protocol network	11 – ATA 190's	
Phone Gateways - 6 units	10-15 years old	Secondary buildings	A device that uses Internet Protocols to transmit and receive all of our voice communications in the district	Cisco – C-4331 – No T1 (6) C-4331 – T1 (4)	
Phase 1				Total:	**$332,729.60**

Total Proposed Allocations for PCSD Phase 1

Total:

$1,509,818

Total Expenditures for infrastructure and security

$772,802

SSBA Amount Remaining for PCSD for Future Considerations

$737,016

Questions?