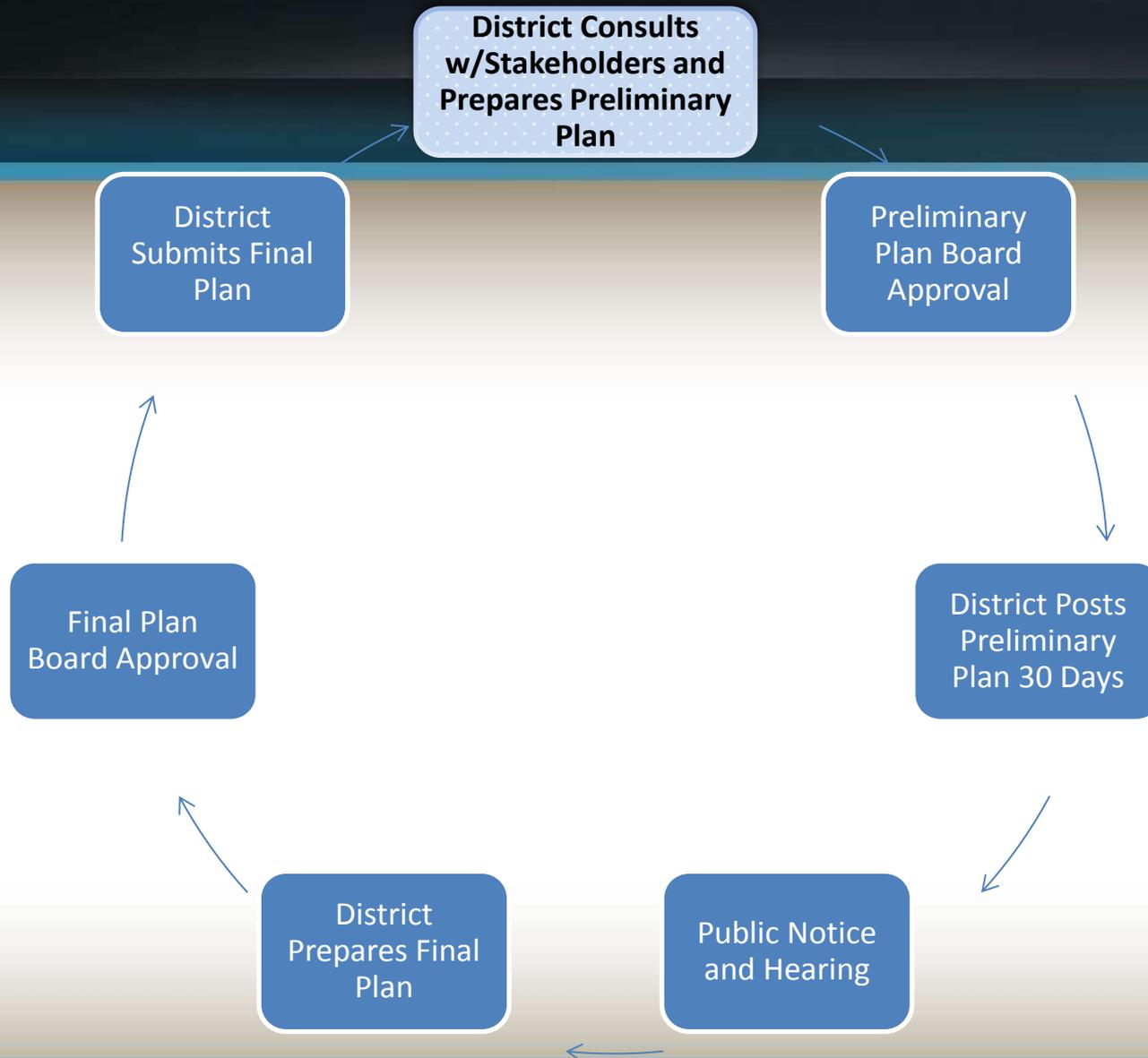




Arlington Central School District Preliminary Smart Schools Investment Plan

Jo Ann Kraus, Director of Technology and Library Media Services
May 24, 2016

Smart Schools Investment Plan District Process



Smart School Investment Plan Categories

- **School Connectivity**
- Community Connectivity
- Learning Technology (devices)
- Pre-Kindergarten Classrooms
- Replacing Transportable Classrooms
- **High Tech Security Features**



Eligible Amount: \$5,218,541

Vision

- One security and communication system district-wide
- Integrate security cameras, phones and public address systems
- Full wireless access at the elementary level



SSIP Preliminary Budget Overview

Smart Schools Categories	Budget Summary
School Connectivity	1,867,359
Community Connectivity	0
High Tech Security	2,860,639
Classroom Learning Technology	0
Replacement Classrooms Trailers	0
Pre-Kindergarten Classroom	0
SSBA Allocation	\$5,218,541
<hr/>	
<i>Estimated Total Proposed ACSD SSIP#1 Expenditures</i>	\$4,727,998

Project Scope

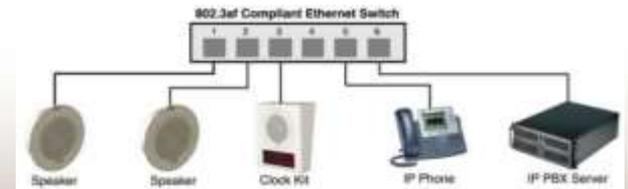
–School Connectivity

- Cabling
- Switch technology
- Wi-Fi Access Points



–High Tech Security Features

- Cabling
- Security cameras (interior/exterior)
- VoIP phones mounted in classroom safe zone
- IP Public address speakers
- Video recording servers
- Lockdown panels



School Connectivity Goals

- **Goal 1**

Update wireless coverage for six elementary schools to include all classrooms

- **Goal 2**

Upgrade network infrastructure switching at 11 school buildings to support 10 gigabit closet uplinks and redundant 10 gigabit aggregation cores

- **Goal 3**

Increase internet bandwidth for the district from 600 Mbps to 850 Mbps



School Connectivity Preliminary Budget

Items	Sub-Allocation
Network Switches/10G Uplinks (33 wiring closets)	624,816
Wireless Access Points (300+ classrooms)	261,593
Cabling	146,800
Wiring Closet Environmental Upgrades	333,800
Generator (Union Vale)	75,000
Professional Services	425,350
Estimated Total	\$1,867,359

High Tech Security Features Goals

- **Goal 1:** Install lockdown panels and security cameras in all school buildings
- **Goal 2:** Install and mount safe zone VoIP phones in classrooms at eight elementary schools and two middle schools to integrate with security system
- **Goal 3:** Update public address system to integrate with new security system features



Safe Zone
VoIP Phone



IP Speaker
with clock



High Tech Security Classroom Components

Lockdown Panels

- Initiates lock down process
 - Notifies emergency services
 - Disables swipe card access
 - Makes a PA announcement
 - Activates the exterior strobe lights
 - Sends automated message



Security and Safety Bond Status

2013 Capital Security and Safety Referendum Proposed Scope of Work

Current Status May 2016

Doors and Hardware	In progress – May 2014 Referendum
Health Projects (Noxon water, asbestos removal)	In progress – May 2014 Referendum
VOIP Phone System/Cell Repeater	Phase I Complete (15/16 Budget) Phase II in SSIP Application
PA System	Included in SSIP Application
Lockdown/Panic System	Included in SSIP Application
Security Cameras	Included in SSIP Application
Vestibule Creation	Not included
Greeter Workstation	Not included
Visitor/Staff Automation	Not included

High Tech Security Preliminary Budget

Item Description	Sub-Allocation
Cabling	635,950
Network components	308,917
Security Cameras	311,629
DVR Hardware	161,273
PA System Tie In	16,200
Mass Notification Tie In	14,088
Panic Alarm System	52,617
Lockdown Strobe Lights	26,568
Card Disable Feature	21,000
Safe Zone Classroom Phones	233,420
Cell Phone Lockdown	14,088
IP Phone Lockdown	14,088
PA system and components -1250	1,017,097
Police Integration Panel	20,064
Install/project management	13,640
Estimated Total	\$2,860,639

Implementation Timeline

2017-18

Project I

The first step of the implementation plan is to run cabling and install infrastructure components (switches) in all school building wiring closets.

Project II:

Install Wireless Access Points in 6 Elementary Schools: Noxon, Traver, Overlook, Beekman, Arthur S. May and Vail Farm

Project III

Install high tech security system at high school

- DVR Servers
- Security Cameras
- Lockdown Panels
- IP Speakers

2018-19

Project IV

Install high tech security system at middle schools

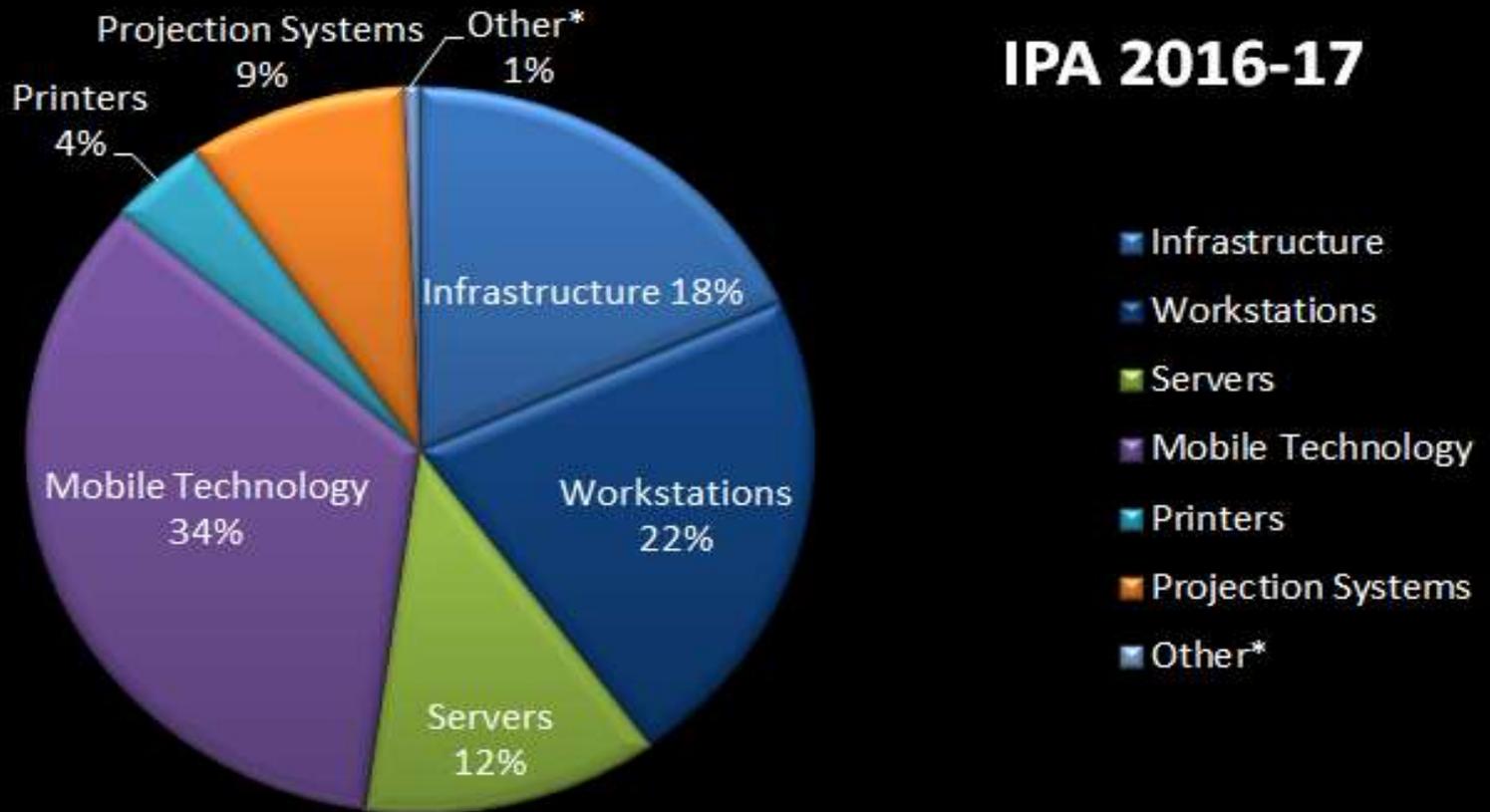
- DVR Servers
- Security Cameras
- Safe Zone VoIP phones in every classroom
- Lock Down Panels
- IP Speakers

Project V

Install high tech security system at 8 elementary schools

- DVR Servers
- Security Cameras
- Safe Zone VoIP phones in every classroom
- Lock Down Panels
- IP Speakers

Sustainability and the District Technology Plan



Sustainability and the District Technology Plan

Smart Schools Categories	Budget Summary
School Connectivity	1,867,359
High Tech Security	2,860,639
Estimated Total ACSD SSIP#1 Expenditures	\$4,727,998
Estimated Annual Maintenance Cost	\$50,000

Questions?

