



**Middle Country Central School District**

**Technology and Smart Schools  
Investment Plan Update  
November 18, 2020**

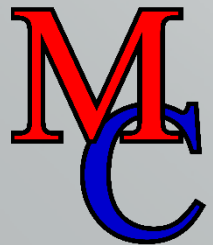
February 27, 2019

June 20, 2018

September 13, 2017

September 27, 2016

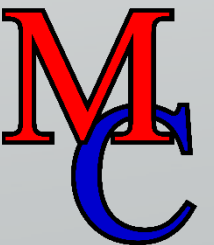
February 4, 2016



Vincent Raicovi, Ed.D.  
Director of Technology, Business, and Information Systems

# Mission Statement

The mission of the Middle Country Central School District is to empower and inspire all students to apply the knowledge, skills and attitudes necessary to be creative problem solvers, to achieve personal success, and to contribute responsibly in a diverse and dynamic world.



# District Technology Overview

Over ~~6600~~ 14,500  
networked devices  
district-wide

SMART Boards  
installed in 100% of  
classrooms

High-availability  
data network

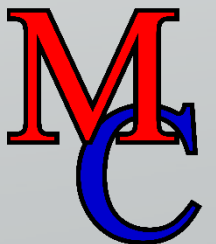
Districtwide WiFi  
Coverage

VMware Cluster:  
85+ Virtualized  
Servers running on 6  
physical servers

Disaster Recovery  
Site @ NHS

9500+  
Chromebooks!

Robotics Labs @  
NHS & CHS



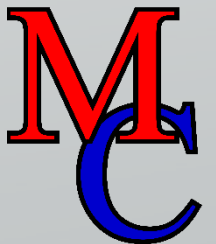
# Major Technology Initiatives 2019-2021

## 2019-2020

- 5<sup>th</sup> and 8<sup>th</sup> Grade Chromebooks
- Covid-19
  - Distance Learning Program
- Family Loaner Program
  - Chromebook
  - Cellular HotSpot
- Student/Parent HelpDesk

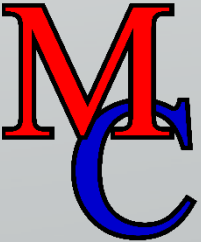
## 2020-2021

- Chromebooks:
  - 3rd – 5th (August)
  - 10th - 12th (August)
  - 1st & 2nd (Nov/Dec)
  - K (late-winter/early-spring)
- Replace Building IDF Switches
- Replace Building Main (MDF) Switches
- Phase 2 of Wireless Rollout



# Recent Computer Replacement Schedule Summary

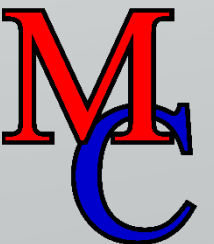
2020-2021	<ul style="list-style-type: none"> <li>•Chromebooks – 3rd-5<sup>th</sup> and 10th-12<sup>th</sup> (August)</li> <li>•Chromebooks – 1<sup>st</sup> and 2<sup>nd</sup> (November/December)</li> <li>•Chromebooks – K and Older Teacher Models (Winter)</li> </ul>
2019-2020	<ul style="list-style-type: none"> <li>•Chromebooks – 5th and 8th Grade</li> </ul>
2018-2019	<ul style="list-style-type: none"> <li>•Chromebooks – 5<sup>th</sup> Grade</li> </ul>
2017-18	<ul style="list-style-type: none"> <li>•Chromebooks – 5<sup>th</sup> Grade, ENL</li> </ul>
2016-17	<ul style="list-style-type: none"> <li>•K Centers</li> <li>•HS Technology Labs</li> <li>•HS Laptop Carts</li> <li>•Chromebooks – LE, ST Math</li> </ul>
2015-16	<ul style="list-style-type: none"> <li>•MS Laptop Carts</li> <li>•Elementary STEM Laptop Carts</li> <li>•zSpace Labs</li> </ul>
2014-15	<ul style="list-style-type: none"> <li>•MS Classrooms</li> </ul>
2013-14	<ul style="list-style-type: none"> <li>•HS Labs (HS Classrooms from Labs)</li> </ul>
2012-13	<ul style="list-style-type: none"> <li>•Auer, Hawkins, Stagecoach, and HS Labs</li> </ul>



# NYS Smart Schools Bond: Overview

The SMART SCHOOLS BOND ACT OF 2014 was passed in the 2014-15 Enacted Budget and **approved by the voters in a statewide referendum** held during the 2014 General Election on Tuesday, November 4, 2014.

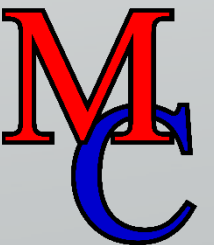
The Smart Schools Bond Act authorized the issuance of \$2 billion of general obligation **bonds to finance improved educational technology and infrastructure to improve learning and opportunity for students throughout the State.**



# NYS Smart Schools Bond: Purpose

The purpose of the Smart Schools Bond Act is to improve learning and opportunity for public and nonpublic school students by funding capital projects to:

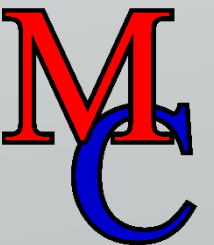
- 1. Install high-speed broadband or wireless internet connectivity for schools and communities;**
- 2. Acquire learning technology equipment or facilities,** including but not limited to interactive whiteboards, computer servers, and desktop, laptop, and tablet computers;
- 3. Construct, enhance, and modernize educational facilities to accommodate prekindergarten programs and to provide instructional space to replace classroom trailers; and/or**
- 4. Install high-tech security features in school buildings and on school campuses,** including but not limited to video surveillance, emergency notification systems, and physical access controls.





# **NYS Smart Schools Bond: Middle Country Central School District Allocation**

**\$8,318,342**





# Initiatives

- 1:1 Student Chromebooks
- Network Infrastructure Overhaul
- Security

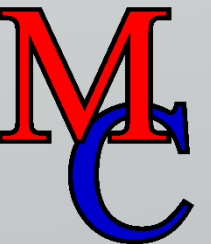


# Submissions and Status Review



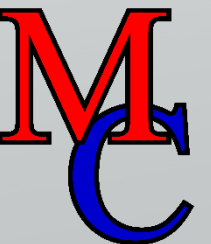
# Submissions and Status Review: 1/4

- **Smart Schools Investment Plan – “Initial Fiber”**
  - Submitted: 9/23/2016
  - **Current Status: Approved and Work Completed**
  - Plan:
    - New fiber optic cable between all MDFs & IDF
    - New rack enclosures where necessary
- Total Budget: \$219,627.00



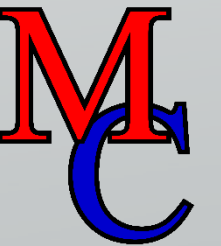
# Submissions and Status Review: 2/4

- **Smart Schools Investment Plan – “MDF Switches”**
  - Submitted: 10/20/2017
  - **Current Status: Approved and Completed**
  - Plan:
    - Replace all MDF switches in each building
- Total Budget: \$ 158,218.00



# Submissions and Status Review: 3/4

- **Smart Schools Investment Plan – “Initial Chromebooks and Wireless”**
  - Submitted: 11/3/2017
  - **Current Status: Approved and Completed**
  - Plan:
    - Additional wireless controllers and access points in each building
    - 3 grade-levels of Chromebooks (5, 6, & 7)
- Total Budget: \$936,985.00



# Submissions and Status Review: 4/4

- **Smart Schools Investment Plan – “Computer & Security Compilation 7/2018”**
  - Submitted: 7/18/2018
  - **Current Status: Approved and In Progress**
  - Plan:
    - Additional wireless controllers and access points in each building
    - Replace all IDF switches in each building
    - 2 grade-levels of Chromebooks (4 & 10)
    - ~~Replace high school classroom and lab computers~~ Chromebooks
    - ~~Replace elementary STEM laptops~~ - Chromebooks
    - ~~SAN Replacement~~ Chromebooks
    - Electronic security and control system, and approved door hardening project
  - Total Budget: \$5,006,942.00



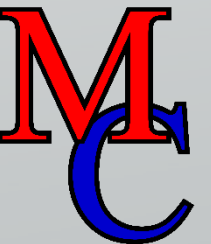
# Security Components

- Cameras (over 500), Software, and Network Video Storage
- Visitor Management Software
- Cards and swipes for staff and secondary students
- Security Vestibules
- Lockdown Buttons and Strobe Lights
- Phone System



# Smart Schools Budget Summary by Category

Plan#	Plan Description	Approval Date	Total Budgeted	School Connectivity	Connectivity Projects for Communities	Classroom Technology	Pre-Kindergarten Classrooms	Replace Transportable Classrooms	High-Tech Security Features	Nonpublic Loan
1	Initial Fiber	7/14/17	\$219,627	\$219,627	\$0	\$0	\$0	\$0	\$0	\$0
2	Initial Chromebooks and Wireless	2/26/20	\$248,528	\$248,528	\$0	\$0	\$0	\$0	\$0	\$0
3	MDF Switches	2/26/20	\$335,219	\$335,219	\$0	\$0	\$0	\$0	\$0	\$0
4	Computer & Security Compilation	2/26/20	\$5,574,145	\$683,812	\$0	\$2,300,280	\$0	\$0	\$2,558,303	\$31,750







# Plan 5 with Final Allocations and Adjustments

- Remaining Smart Schools Balance: \$1,940,823
  - Additional Security Enhancements
  - Additional Chromebooks

# Smart Schools Budget Summary

SSBA Allocation:	\$8,318,342
SSBA Allocated to Date:	\$8,318,342
Remaining SSBA Allocation:	\$0





Thank you for your support!

Questions or comments?

