SMART SCHOOLS BOND ACT

SMART SCHOOLS FUNDING CAN BE USED FOR:

- Installing high-speed broadband or wireless internet connectivity
- Acquiring learning technology equipment
- Installing high-tech security features in school buildings and on school campuses

$2,051,700

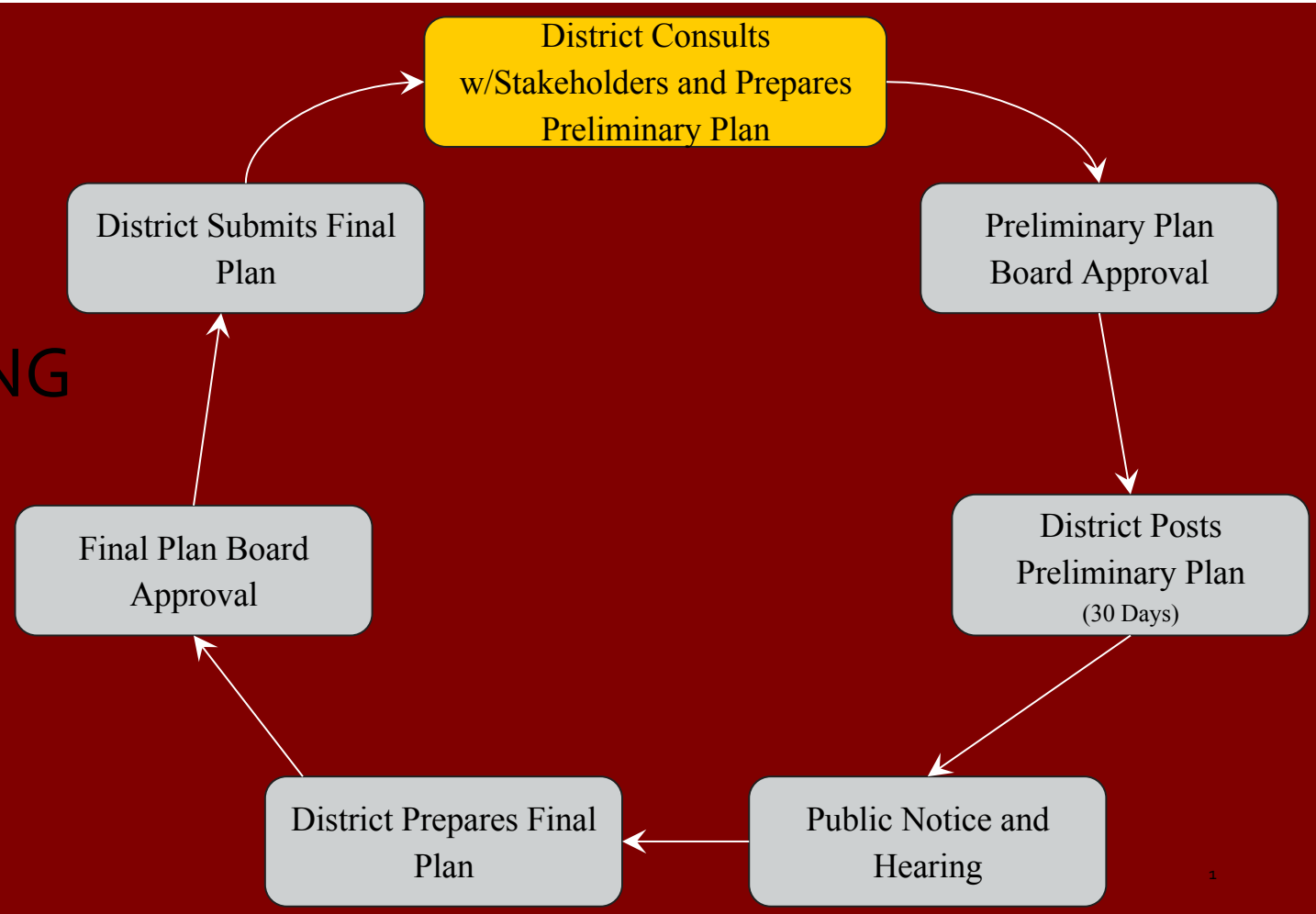
allocation to South Colonie as part of the November 2014 referendum approved by state voters

SSIP

SMART SCHOOLS INVESTMENT PLANS

Schools must submit to access allocation

DEVELOPING OUR SSIP



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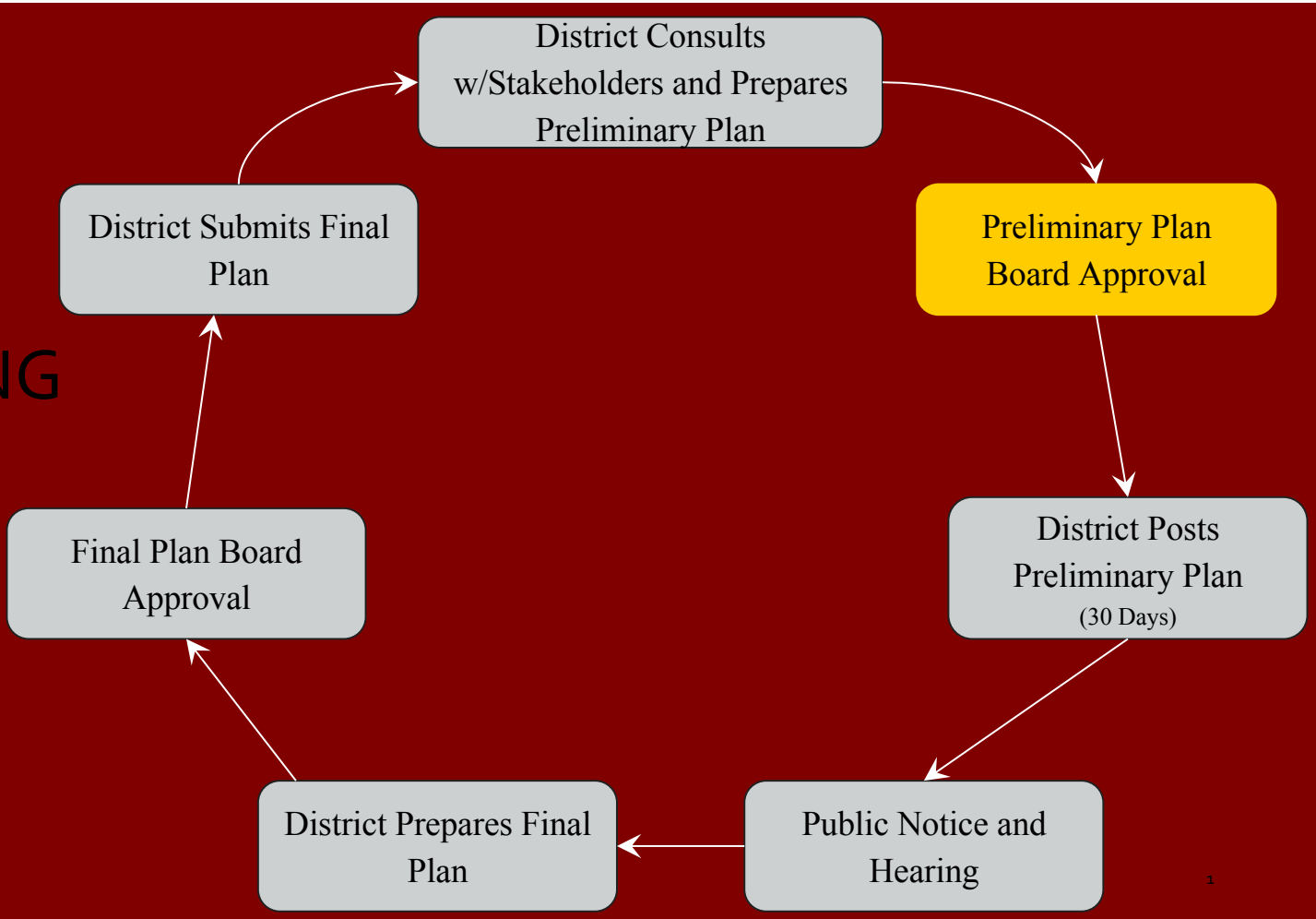

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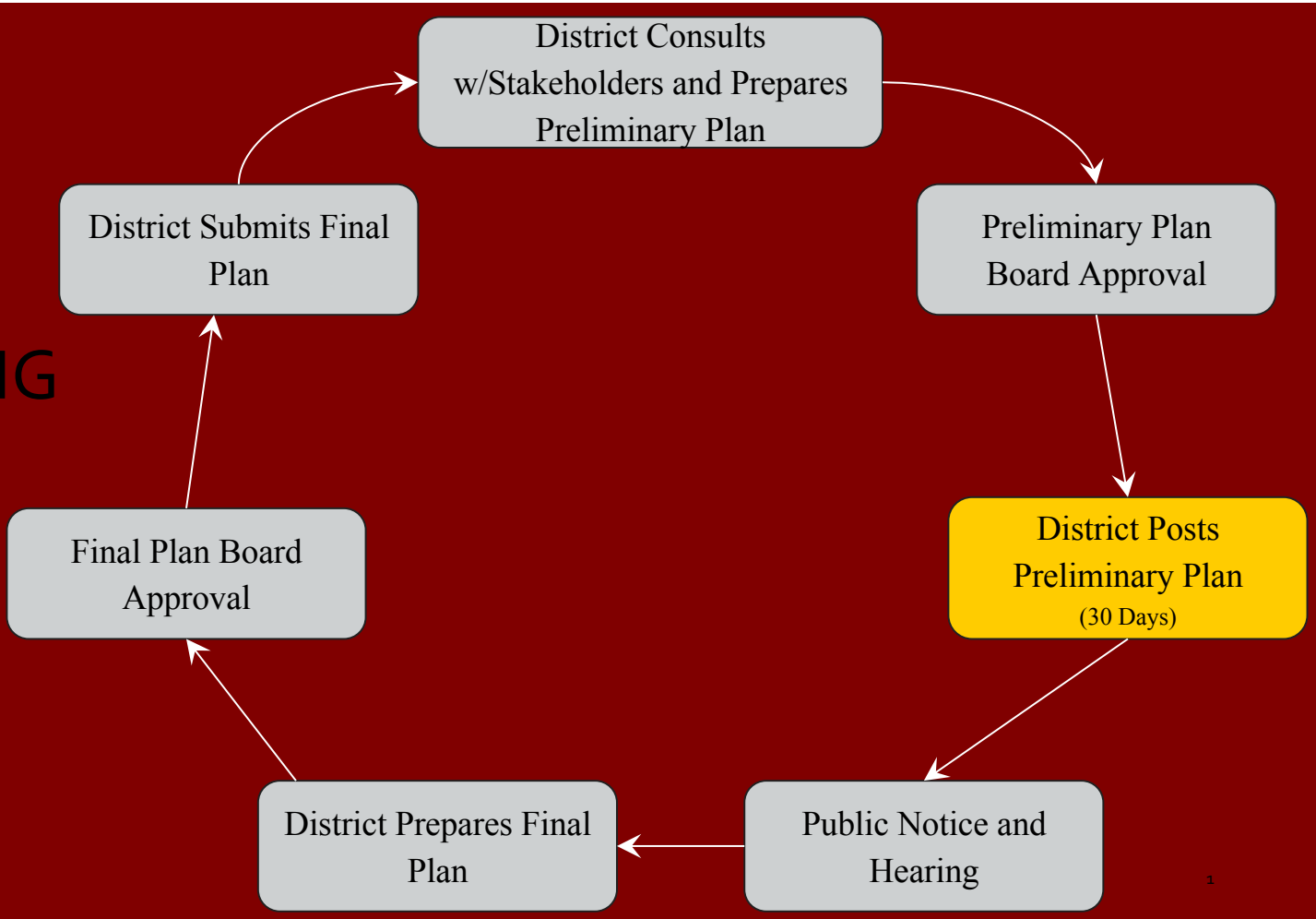

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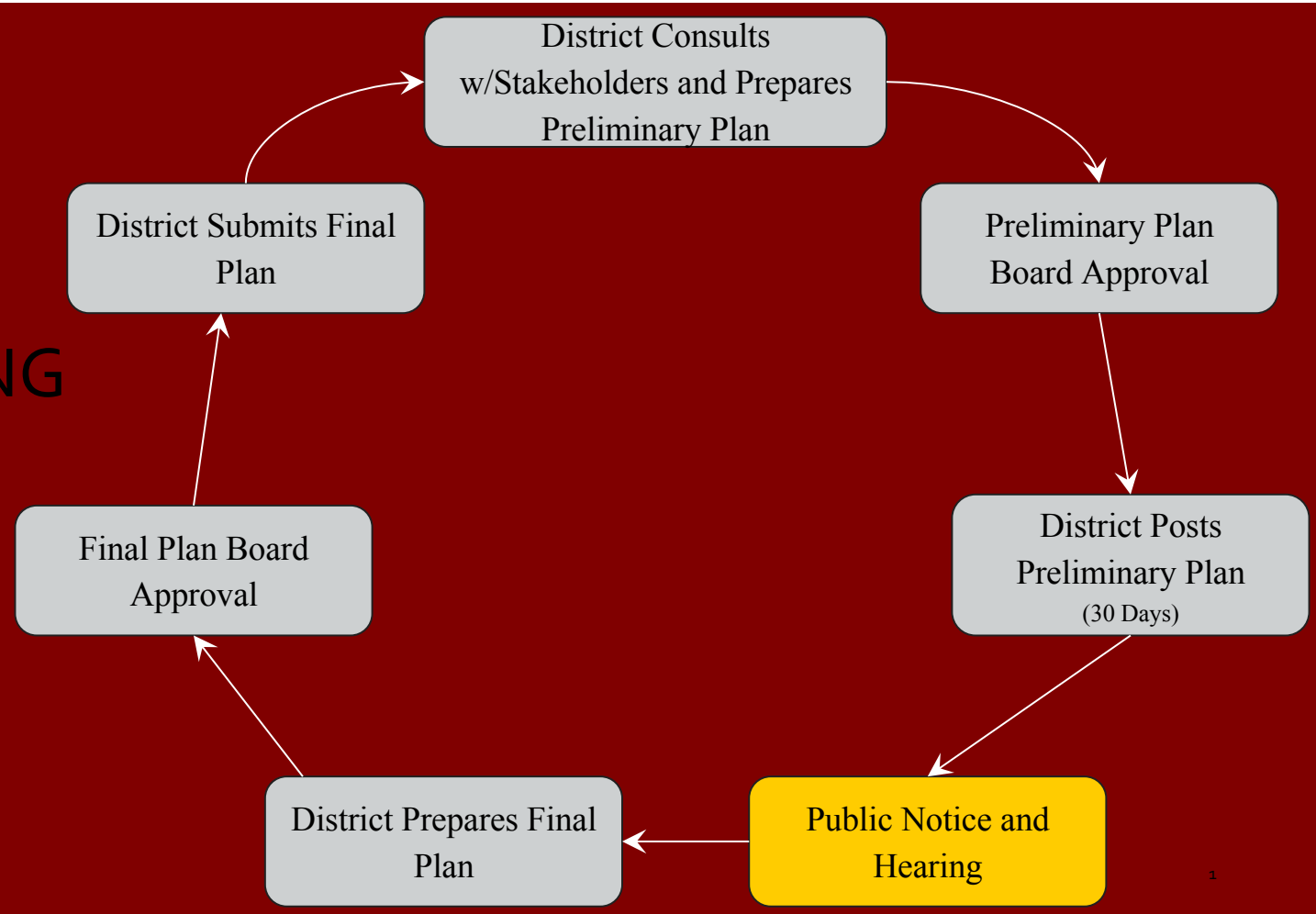

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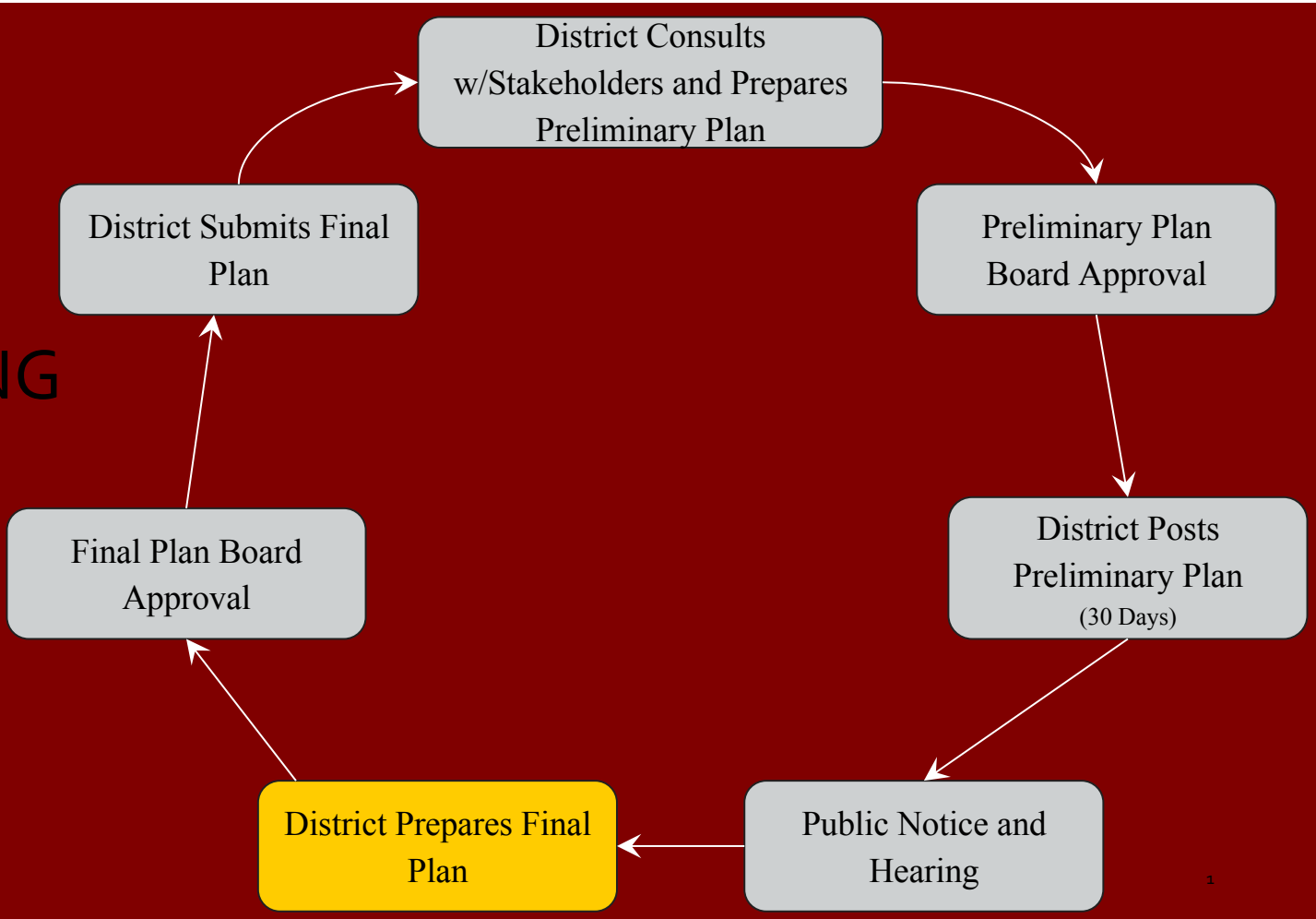

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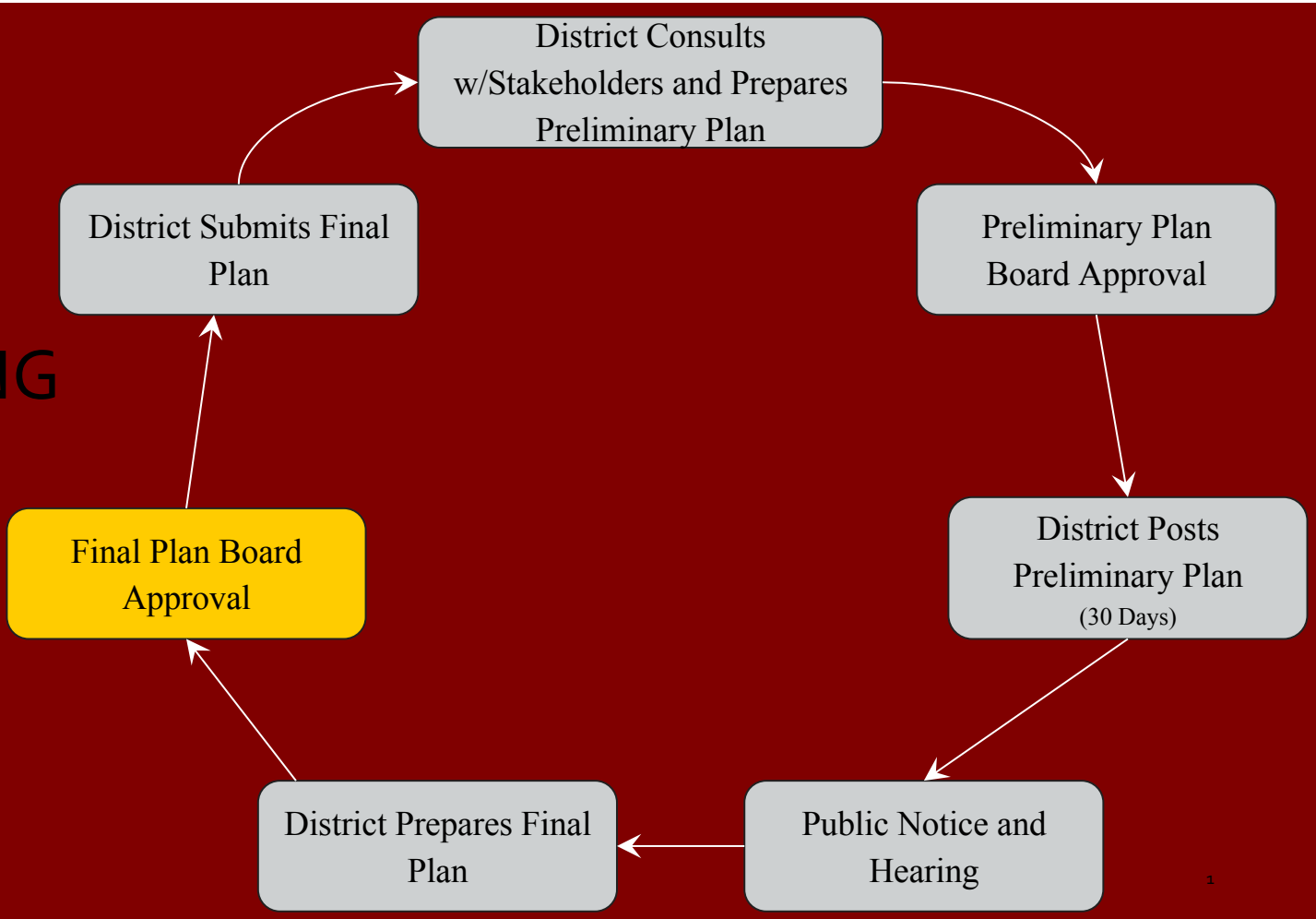

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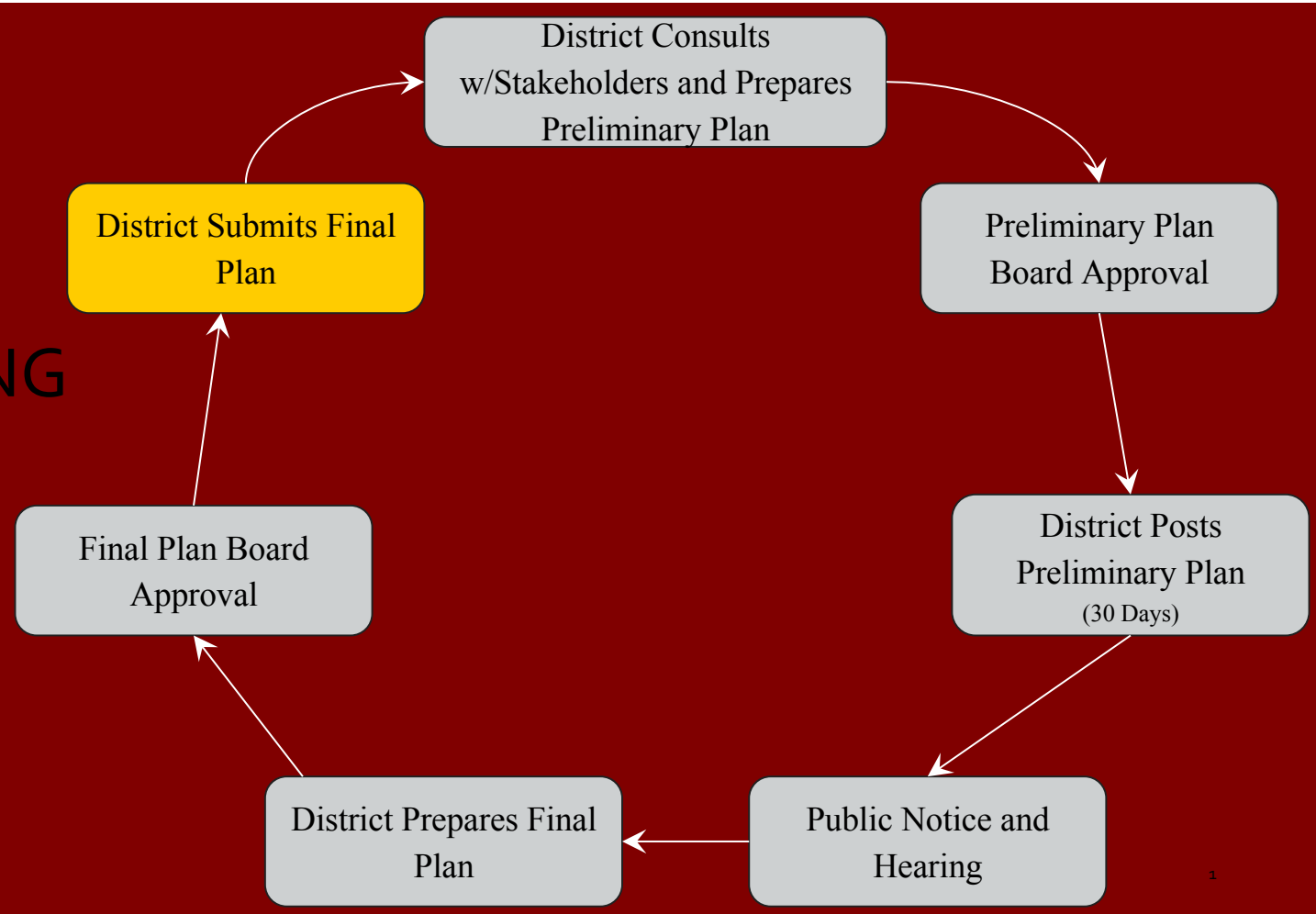


CLASSROOM TECHNOLOGY DEVICES

Plan Submission

Plan can be submitted once Board has approved a final SSIP

Eligible Equipment

Equipment can include the following devices:

- Interactive whiteboards
- Computer servers;
- Desktop, laptop, and tablet computers
- Other technology items that enhance teaching and learning; and
- Expenses related to the installation of new devices

Multiple SSIPs

Districts can submit multiple SSIPs so that the purchasing of the equipment can be spread out over multiple years

CLASSROOM TECHNOLOGY DEVICES: CLASSROOM DISPLAY

CCHS, Middle Schools and Elementary Schools still without display technology in all classrooms.

CLASSROOM TECHNOLOGY DEVICES: CHROMEBOOK

450 Chrome Devices purchased over the past year with plans to purchase over 2000 in the next three years.

4-Year Replacement Plan

CLASSROOM TECHNOLOGY DEVICES: WIRELESS REPLACEMENT & EXPANSION

- *Need for faster wireless access continues to grow*

PRELIMINARY PURCHASE PLAN: TECHNOLOGY

	Classroom Technology	Chromebook Replacement	Wireless Access Points, Server & Security Upgrades
2016-17	**$212,000**	**$98,450**	**$352,000**
2017-18	**$212,000**	**$152,750**	**$152,500**
2018-19	**$304,000**	**$104,000**	**$220,000**
2019-2020	**$140,000**	**$104,000**	**$0**
4 year Totals	**$868,000**	**$459,200**	**$724,500**

PRELIMINARY PURCHASE PLAN: SCHOOL SECURITY

Eligible Equipment include the following devices:

- High-tech security features
- Video surveillance
- Emergency notification systems
- Physical access controls

The Process for the Security Items is a bit more involved

- We will need to engage an Architect for project design & development
- SED Facility Management Review/Approval Process before submission of a second SSIP in year 2

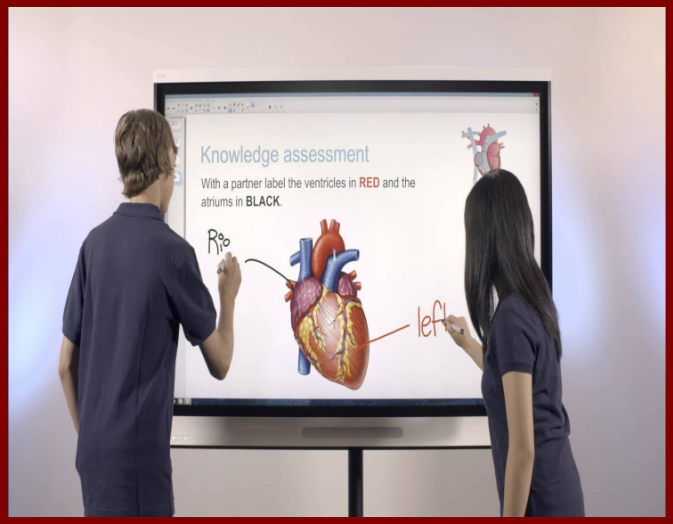
Why Chromebooks?

- Proven to have a positive impact on student learning
- Utilizes the power of the web
- Learning can take place anywhere and at any time
- Internet allows students resources and tools to accommodate different types of learners
- Online assessments
- Will benefit all aspects of education

Why iPads?

- Proven educational tool
- Increases student engagement
- Allows teachers to personalize instruction
- Apps facilitate responsiveness to students' varied interests and abilities
- Enhances data collection
- Helps to manage work-flow

Why MX 800 SmartBoards?



- The use of interactive whiteboards benefit teaching and learning
- Increases student engagement
- Provides additional ways to teach and learn
- Accommodates different learning styles
- Provides for video conferencing and recording of lessons

Are teachers and students ready for this?

- **Teacher demand is high**
- **Student demand is high**
- **Teachers are willing and anxious for professional development to support the integration of these tools.**

Is our facility ready for this?

- **Network/Infrastructure will be updated this summer and configured for increased use.**
- **Continuous updates will make experience better.**

How will we support faculty in this initiative?

- **Professional development will be provided from the beginning of implementation to the end.**
  - **Direct day-to-day support**
  - **Teachers Center Support**
  - **Colleague-to-colleague support / collaboration**
  - **Job-embedded opportunities**
  - **Faculty Meetings**
  - **Online opportunities**

How will we know if we are successful?

- **Formative and summative analyses**
- **Student feedback**
- **Teacher feedback**
- **Classroom observations**

UPGRADE OF SERVERS & PHONE SYSTEM

- Continue our migration to Voice Over Internet Protocol (VOIP) to supplement the Capital Project
- Install new VOIP telephones in strategic areas of each building with video conferencing features
- This will allow for integration with the other security systems being upgraded
- Upgrade of servers to replace outdated devices that are no longer under warranty to improve overall strength of the network.

VIDEO SURVEILLANCE SYSTEMS

- Replace Digital Video Recorders & upgrade to networked devices
- Some current devices are over 10 years old or provide limited coverage
- Upgrade Cameras & Coverage
- Expand & replace
- Move from analog cameras to complete digital platform

PUBLIC ADDRESS SYSTEMS

- Replace aged and failing public address systems in all buildings that are not addressed through the Capital Project.
- New equipment would provide richer features & expanded capabilities
- Will allow us to integrate with other security systems
- Expand communication abilities
  - Building to building
  - Two-way communication to classroom

SECURITY SYSTEM REPLACEMENT

- Existing camera equipment needs to tie into future purchases and be server based.
- More coverage is required
  - High value areas
  - Broader area of the building
- Perimeter door security would be added
  - Will allow for door a-jar monitoring during occupied hours
  - Door openings would be alarmed and would notify administration that someone is leaving or entering the building

CARD ACCESS SYSTEMS & DOOR HARDWARE

- Expand card access to include more doors
- Replace control software of current Card Access System
  - no longer supported by manufacturer
  - near maximum capacity
- Upgrades to interior door hardware in classrooms and offices where needed
  - Replace old style door hardware with “classroom function” door hardware and locking
- If Budget allows
  - Re-do keying of buildings to new and more secure system with better control

PRELIMINARY PROJECT BUDGET - SERVERS & SECURITY COMPONENT

Proposed Security Components of Smart Schools Program	Preliminary Estimate of Construction Cost	Anticipated Incidental Costs (10%)	Preliminary Estimate of Total Cost
Security System Replacement	$200,000	$20,00	$220,000
Video Surveillance System Upgrades	$75,000	$7,500	$82,500
Replacement of Building Public Address (PA) Systems	$50,000	$5,000	$55,000
Card Access Upgrades	$50,000	$5,000	$55,000
Server Upgrades	$125,000	$12,500	$137,500
Systems Integration	$20,000	$2,000	$22,000
Wireless Access Points	$120,000	$12,000	$132,000
Contingency (5%)	$20,500	$0,000	$20,500
Total Budget	**$660,500**	**$64,000**	**$724,500**

PRELIMINARY PURCHASE PLAN: TECHNOLOGY

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NEXT STEPS

With Approval to Proceed with our Preliminary Plans

Technology

- Public Comment
- Finalize Plan
- Submit SSIP for Technology (2016-17)
- Wait for approval
- Move forward with Plan

Security - Different Process than Technology will follow

- Public Comment
- Work with Architect to finalize our plans
- Submit Letter of Intent (LOI) to obtain SED Issues Project Number
- Review Project Plans with SED for their preliminary approval
- Develop Specifications & Drawings for submission to SED for review & approval (similar to Capital Project Process)
- Submit SSIP for Security
- Wait for Approval - Move forward with the Plan

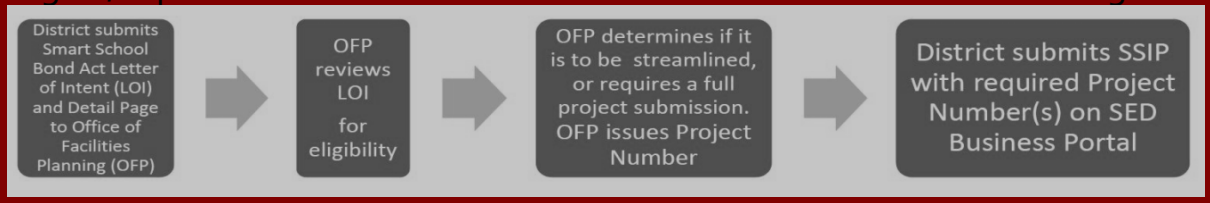
TIMELINE

PROJECT TIMELINE

- June 2016 - Preliminary Plan Presented to BOE
- June /July 2016 - Public Comment (30 days)
- August 2016 - BOE Approval of Final Plan
- August 2016 - Technology SSIP Submitted

Security Approval and Planning Process Continues

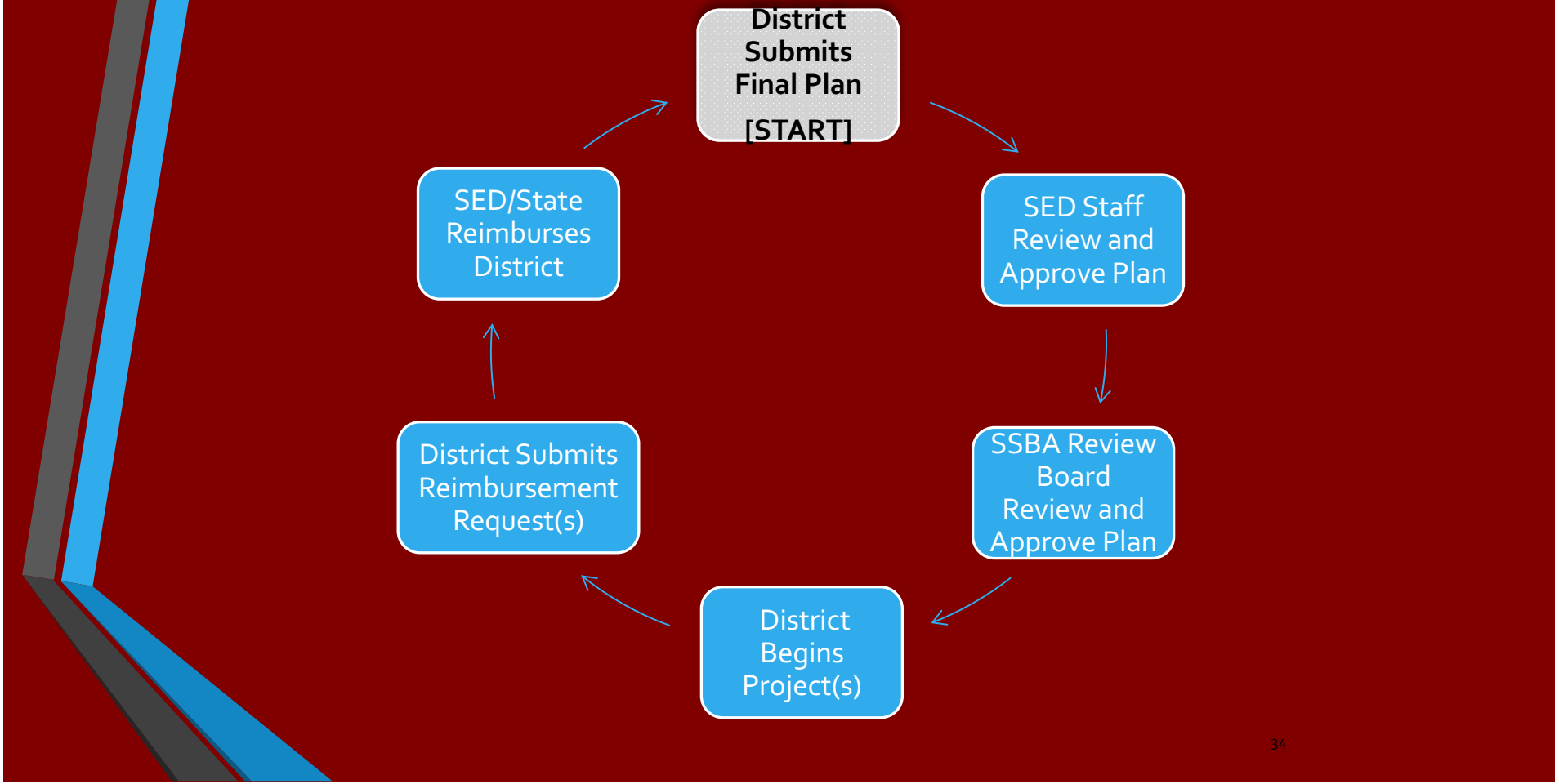
- August/September Work with Architect & NYS Office of Facilities Planning:



- October/November 2016 - Submit SSIP for Security
- November 2016 to April 2017 - Project Approval
- Bid out Work for work to be started summer 2017

Please note that the dates identified will most likely change as we get into the process

The Smart Schools Investment Plan (SSIP) Approval Process



THANKS!

Any questions?