

2016 Bond Steering Committee Meeting

Meeting 3: July 12, 2016



Bond Steering Committee Schedule



Thursday, June 23
6:00-8:00 p.m.
Spring ISD
Boardroom

First Meeting: Bond Blueprint Process

High-level orientation detailing of work to date and overview of Bond Steering Committee objectives and timeline

Presentations:

- Capital Needs Assessment
- Tax Implications
- Voter Survey



Thursday, June 30
6:00-8 :00 p.m.
Spring ISD
Boardroom

Second Meeting: Facilities Needs - Tough Choices

Overview of district facility needs and options. including information about potential ninth-grade model, middle school needs, early childhood education centers, and other district facility needs and options

Presentations:

- Office of Academics
- Chief Operations Officer



Tuesday, July 12
6:00-8:00 p.m.
Spring ISD
Boardroom

Third Meeting: Technology- Expanding 21st Century Learning Opportunities

Overview of strategic technology plan and the related costs; how additional technology will support student learning

Presentations:

- Office of Academics
- Technology Department

Bond Steering Committee Schedule *(Continued)*

Thursday, July 14 6:00-8:00 p.m. Spring ISD Boardroom	Fourth Meeting: Safety, Security and Transportation - Ensuring Safe and Secure Schools Across the District Overview of strategic technology plan and related costs; review how additional technology will support student learning Presentations: <ul style="list-style-type: none">• Spring ISD Police Department/Safety and Risk Management• Transportation Department
Thursday, July 21 6:00-8 :00 p.m. Spring ISD Boardroom	Fifth Meeting: Facilities Needs - Revisited and Finalized Recap of district facility needs; review recommendations from administration
Thursday, July 28 6:00-8:00 p.m. Spring ISD Boardroom	Final meeting - Finalizing Our Bond Blueprint Finalize bond proposal for Spring ISD Board of Trustees to consider

Meeting Agenda

1. Background and Overview
2. Creating 21st Century Learning Environments
3. Our Current Reality
4. Potential Technology Elements
5. Wrap-up and Questions



Background and Overview



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Background

- A demographic study, facility assessment and technology audit were conducted to assess overall district needs. Each revealed specific capital needs that would require a bond referendum.
- The Chief of Staff's department, which includes Technology, conducted focus groups of teachers from all levels, the ACE committee, librarians, and principals in the Spring of 2016 to gain input and feedback on instructional technology needs, uses, and wishes.



Focus: Technology

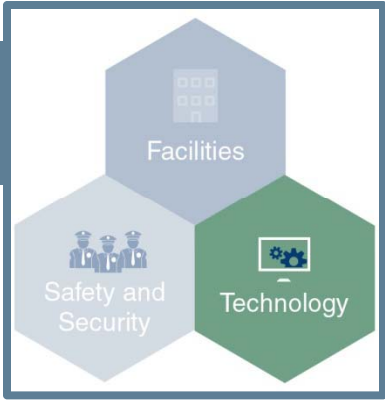


“We have to stop thinking of technology in terms of nouns (PowerPoint, YouTube, or Twitter) and instead think in terms of verbs (presenting, sharing, communicating).”

*–Douglas Fisher and Nancy Frey,
International Reading Association and
National Humanities Council*

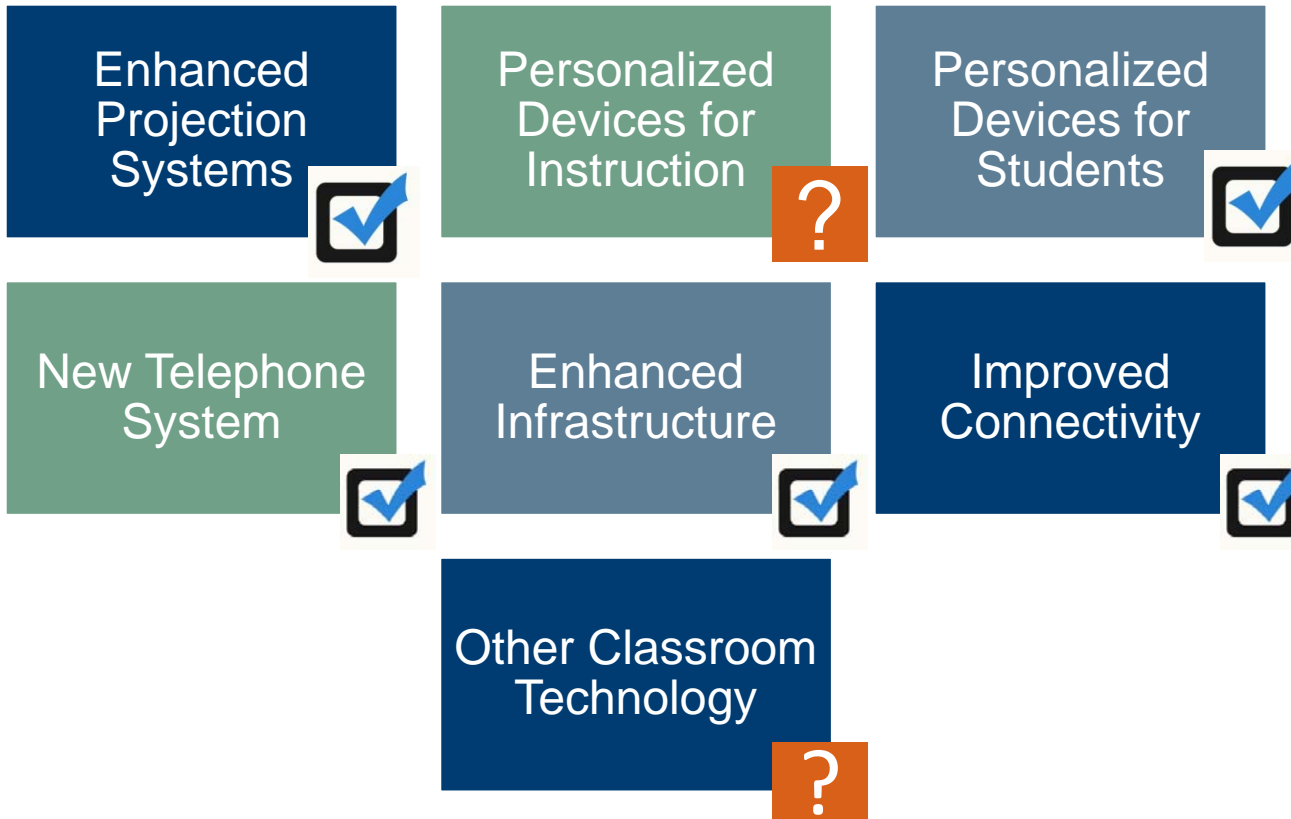
EVERYchild2020

a student-centered plan to transform Spring ISD



Potential Technology Elements

District Technology Needs:



Potential Technology Elements

Core Technology

Improved Connectivity



Enhanced Infrastructure



New Telephone System



Instructional Technology

Enhanced Projector Systems



Personalized Devices for Students



Personalized Devices for Instruction



Other Classroom Technology




Creating a 21st Century Learning Environment




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**Discuss how you use
technology in your
daily activities**



**Discuss how your
children and/or
grandchildren use
technology in their
daily activities**

New Instructional Strategies

DIGITAL USE DIVIDE

While essential, closing the digital divide alone will not transform learning. We must also close the digital use divide by ensuring all students understand how to use technology as a tool to engage in creative, productive, life-long learning rather than simply consuming passive content.

Simply consuming media or completing digitized worksheets falls short.



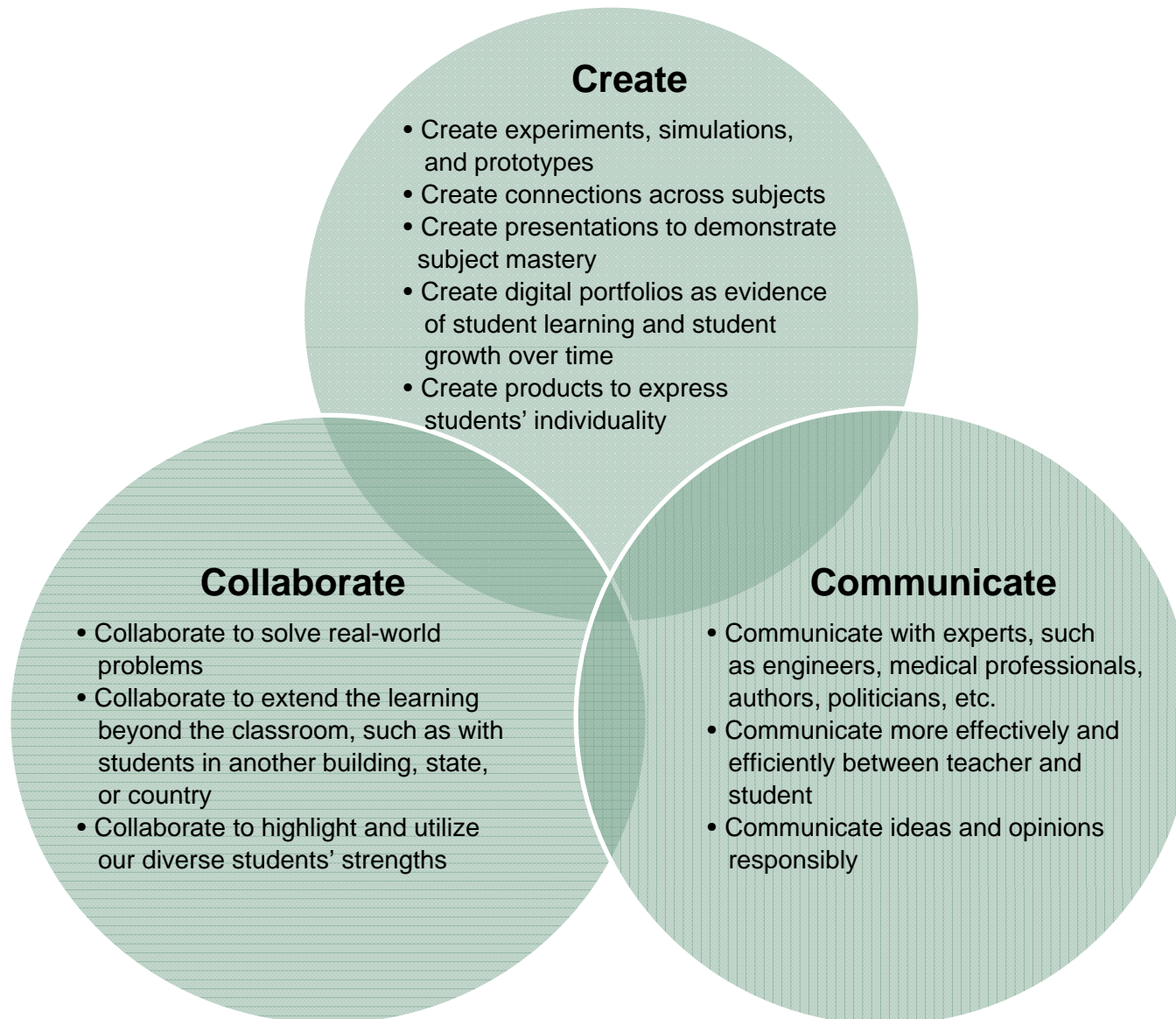
PASSIVE USE



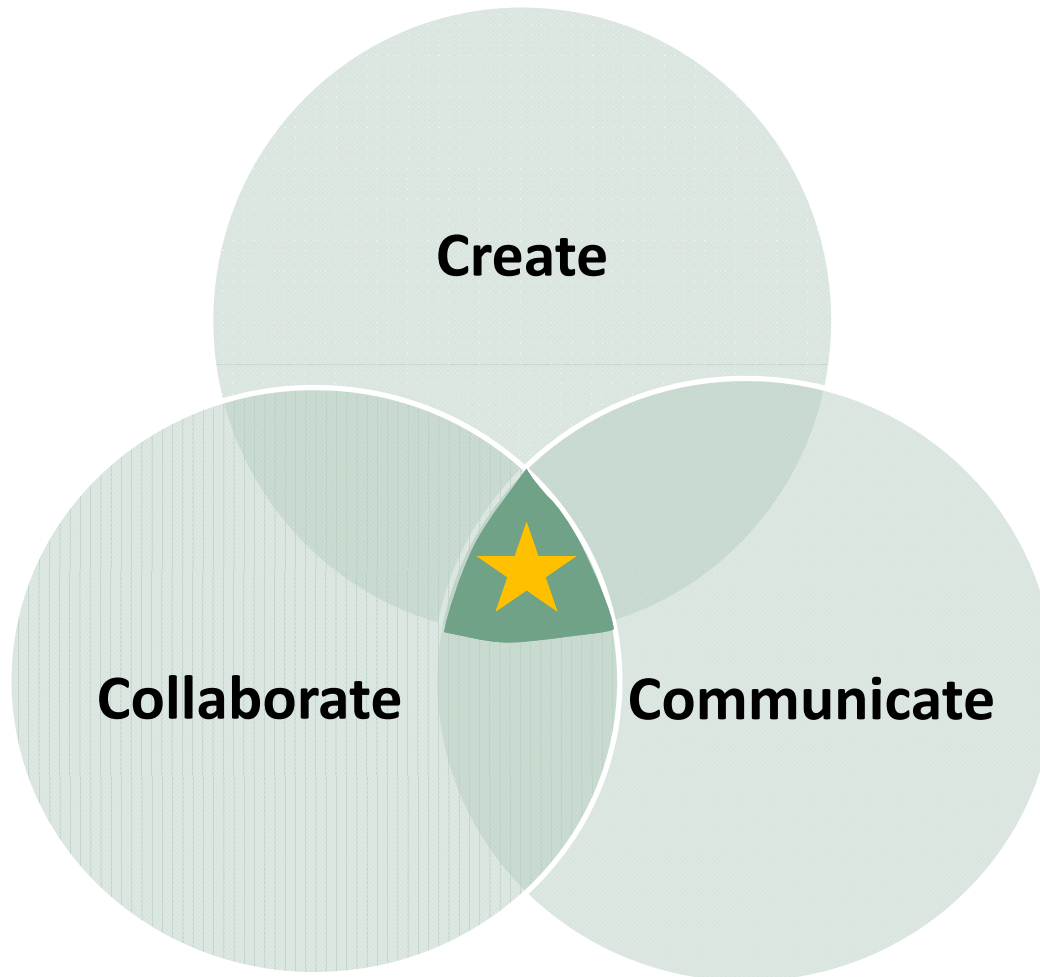
ACTIVE USE

-U.S. Department of Educational Technology

New Instructional Strategies



New Instructional Strategies



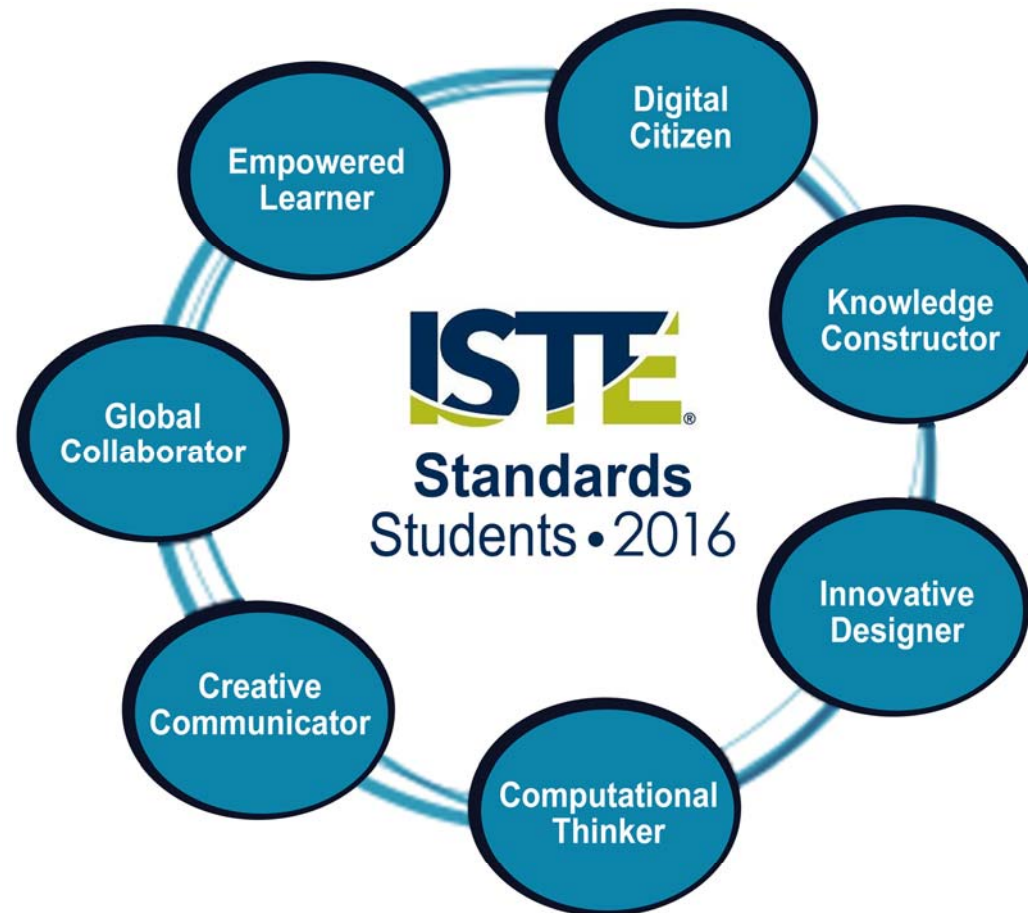
★ = future ready

“You cannot take on 21st century tasks with 20th century tools and hope to get the job done.”

*–Kathy Davidson,
Professor at Duke University*



Classroom Technology Integration

What are the benefits of integrating technology in the classroom?



Classroom Technology Integration

Technology is written in as part of the curriculum. It is not separate. Technology adds to the rigor and engagement of the lesson for students.

	<h3>Middle School Social Studies Example:</h3> <p>Collaborative Learning Opportunity. Ask students to evaluate an assortment of positions for and against the annexation of Texas using Texas Annexation Arguments.</p> <p>Students will then create a presentation that includes visuals such as posters, brochures, and display notes to accompany an oral argument in support of or against Texas annexation. Students will design and deliver the presentations by role-playing as individuals attending a political conference in 1844 Texas.</p> <p>Texas Annexation Milestones may be used as a resource. Using Google Hangout or Google Classroom students will present their arguments to a different class, group, or campus in order to promote academic discussion and understanding of different historical viewpoints.</p> <ul style="list-style-type: none">• District Initiative: Cooperative Groups, Nonlinguistic Representations
	<h3>Elementary School Social Studies Example:</h3> <p>Newspaper Assessment. Use the multiple-choice questions in the Studies Weekly Teacher Supplement to assess student understanding of the content.</p> <p>Week 10. Looking to the West Online Quiz</p>



- Computer projector or document camera to work with students on assessing annexation arguments
- Student laptops to build presentations
- Student laptops equipped with webcams for videoconferencing



- Student laptops or computer lab for online assessment
- Student clickers for responses

Our Current Reality



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Our Current Reality

Current State:

- Aging technology
- Expensive ongoing maintenance
- Manufacturers out-of-business/limited support
- Lack of redundant systems



Ideal State:

- Relevant technology
- Enhanced long-term warranties
- Global technology industry providers/24-7 support
- Fully redundant infrastructure

Our Current Reality

If we continue our current practices, we will not be able to create the 21st century learning environments our students deserve.

Additionally, what if we continue current practices?


- Catastrophic system failures
- Continued and increased expenditures on outdated equipment
- Increased unanticipated outages
- Lost instructional time

Potential Technology Elements



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***“Let’s go invent tomorrow
instead of worrying about
what happened yesterday.”***





***–Steve Jobs, Co-Founder,
Chairman, and CEO of Apple Inc.***

Core Technology Elements





What we need	Why we need it	Approximate cost
Improved connectivity: <ul style="list-style-type: none"> ▪ Wide area network upgrade (fiber) ▪ Campus network switches ▪ Additional network cabling in classrooms 	Fiber backbone that provides stable connectivity. Switches for stable distribution of network traffic throughout schools. Cabling to provide equitable wired access throughout district.	\$13,000,000
Enhanced infrastructure: <ul style="list-style-type: none"> ▪ Fire suppression ▪ Uninterruptable power supply ▪ Remote data center for business continuity 	Provide protection for Network Operations Centers' (NOC) facilities from heat and fire exposure, while also providing ongoing service during a power interruption at all facilities.	\$2,070,000
New telephone system	Prevent loss of entire district-wide telecommunication system due to the age and limited functionality of the system.	\$2,330,000



Instructional Technology Elements

What we need	Why we need it	Approximate cost	
Enhanced projector systems: <ul style="list-style-type: none"> ▪ Wireless-enabled overhead projectors with new cabling and speakers ▪ Document cameras 	Connect to the projector from any location in the classroom on any device	\$5,913,700	
Personalized devices for students: <ul style="list-style-type: none"> ▪ Class sets of student tablets ▪ Carts/charging stations 	Allows for instant access, increased collaboration among students, and engaged instruction	\$1,653,700	
Personalized devices for instruction: <ul style="list-style-type: none"> ▪ Teacher tablets 	Enhances lessons with interactive tools, boosts student participation, and provides real-world experiences	\$679,000	
Other classroom technology: <ul style="list-style-type: none"> ▪ Lab computer/monitor replacement ▪ Chromebook carts for elementary schools ▪ Video recording cart 	Supports technology integration in the classroom and expands and improves the impact of technology on student learning and understanding	\$4,353,500	

Total Approximate Cost

	Potential Technology Element	Approximate Cost
	Improved Connectivity	\$13,000,000
	Enhanced Infrastructure	\$2,070,000
	New Telephone System	\$2,330,000
	Instructional Technologies	\$12,600,000
	Total	\$30,000,000

Wrap-up and Questions



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Wrap-up



The Technology Department needs to build a solid infrastructure base so that it can support all technology throughout the district including every classroom.

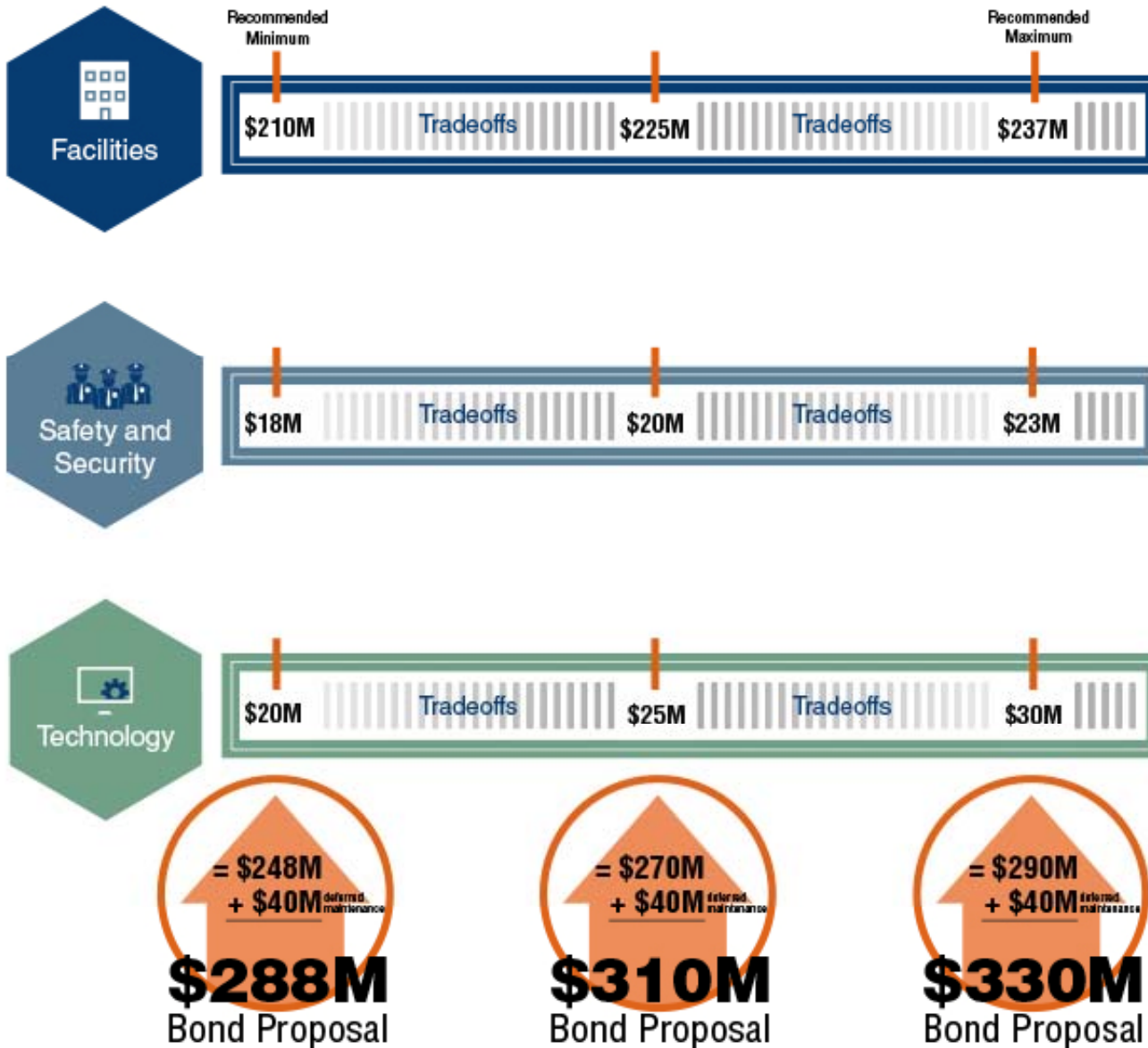


Spring ISD needs to ensure that all teachers have access to the tools necessary for our students to learn in a 21st century classroom environment, which should mirror 21st century college/university settings as well as 21st century work environments.



The estimated cost to start this foundational technology work is \$30 million.

Potential Bond Funding Capacity



Questions?



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