

Meeting Reminders

- **5:00 start time for those in need of technical support.**
- **Miro works best using Chrome or Microsoft Edge browsers (as opposed to Firefox or others).**
- **Please use the Miro link sent to your email to collaborate.**
- **In addition to the Zoom chat, feel free to add notes to the parking lot frame.**

Next
Meeting
May 25

A blurred background image of a student with long dark hair, wearing a white shirt, sitting at a desk and working on a laptop. Other students and classroom equipment are visible in the background.

Welcome

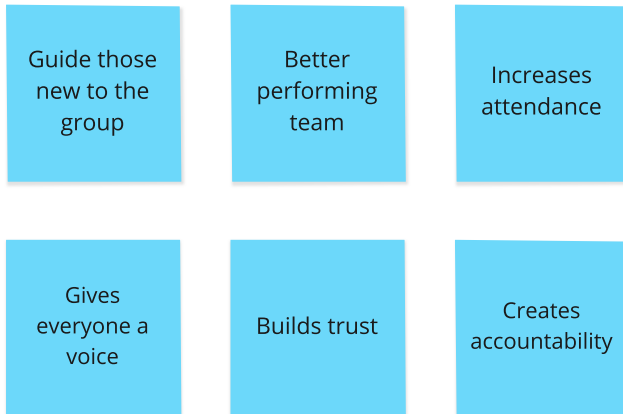
2022

**Technology Advisory Committee
Meeting 05**

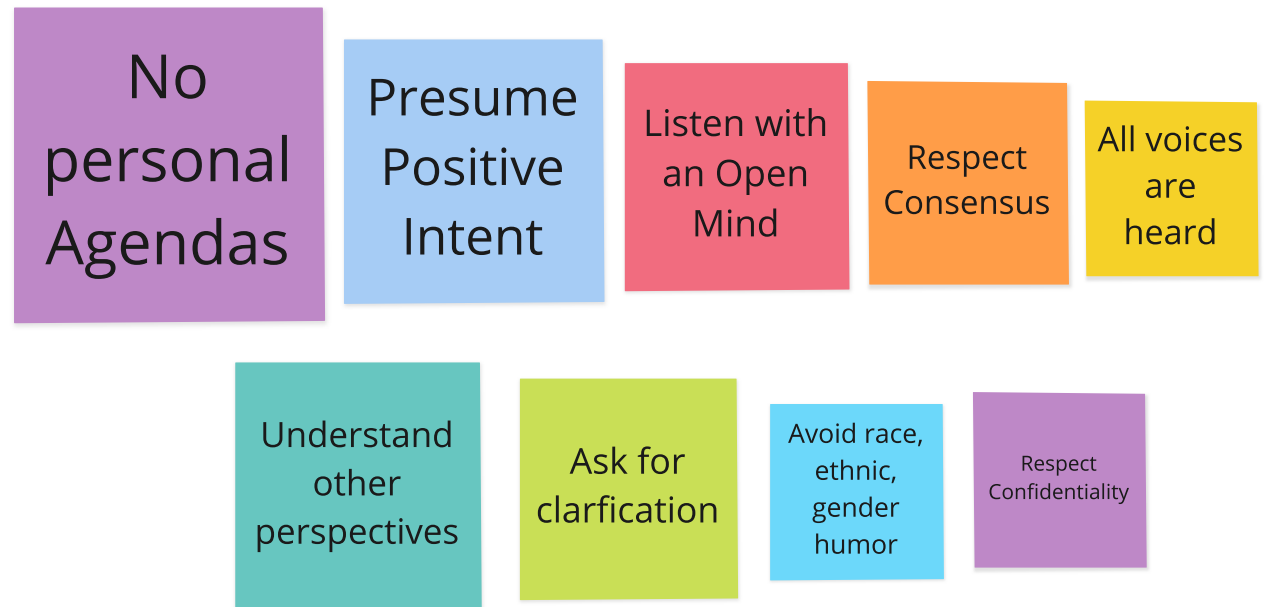
Group "Norms"

Group norms are a set of agreements about how we work with each other and how the group will work overall. These agreed-upon behaviors allow the team to perform through healthy debate and clarity of purpose and roles.

Why is this important?



Your Top Nine (per the Pre-Meeting Survey)



TAC Meeting 05 - AGENDA

1 Group Norms

2 Follow up & Synthesis

3 Funding

4 Networking Presentation

5 TAC Project Proposals

6 Breakout and Report out

7 Closing

#1: PRESENTATION SYSTEMS

Common Themes from Meeting 4 Breakouts: Presentation Systems

Standardization from room to room supports equitable teaching and learning experiences. Location shouldn't determine what technology you have access to.

Presentation technologies support social learning skill development as well as presentation and public speaking skills for students.

Professional learning is key to the effective and equitable use of presentation technologies.

#2: PROPOSALS (Computing, LMS, Analytics, TechSupport)

Common Themes from Meeting 4 Breakouts: Project Proposals

All students need access anywhere and anytime to the technologies that allow them to learn wherever and whenever they are engaged in learning.

There is a strongly identified need for continued professional learning around the effective use of the LMS tools as well as standard and mandatory technologies.

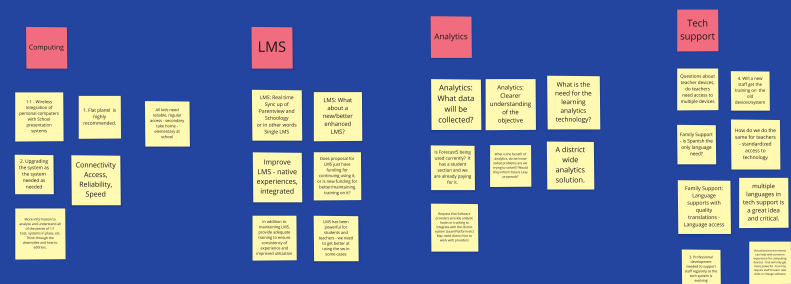
Student and family experiences are best when teachers in a school use the LMS and other technologies with consistency from class to class.

Data is critical in instructional decision making. (But it may not be clear what that data is or how we will use it.)

How should TAC move forward with a recommendation regarding presentation technologies?



Group Notes for Reporter:



Remaining Funds and New Budget

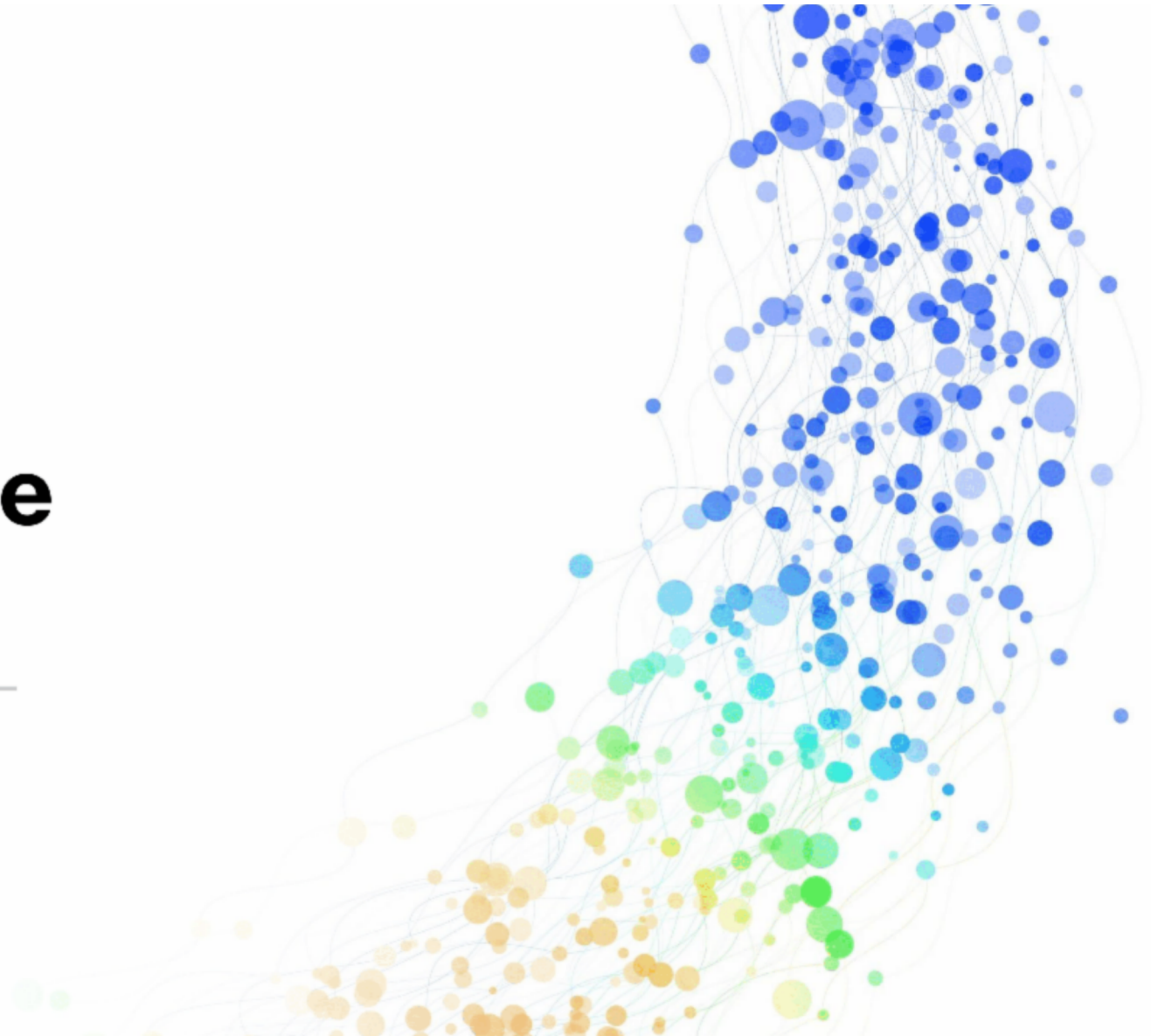
Funds Remain from the 2018 Technology Levy

- Remaining Collections
- Designated
- Non-Designated
- TAC Recommendation
 - 2018
 - 2022
- Approval Process

- Student Computers
- Professional Development
- Instructional Technology Support
- Levy Project Support Staff
- Assistive/Adaptive Technologies
- Analytics
- Staff Computers
- Software Licensing
- Operational Systems
- Fiscal/HR System Review



Technology Infrastructure Funding



Historical Technology Bond Funding

- 1994/1996 **\$10.3 M** Wide Area Network, Digital Phone System Phase 1
 - *Dial-up access to WSIPC, 1.5 Mbps/0.5 Mbps WAN, 6,000 Computers, AppleTalk*
- 1998 **\$8.4 M** Building Wiring to Cat 5, Digital Phones Phase 2
 - *1.5 Mbps Internet (T1), 3.0 Mbps/0.5 Mbps WAN, 9,000 computers, local servers*
- 2002 **\$8.5 M** Fiber Optic WAN, Building Wiring, Routers, Wireless
 - *100 Mbps Internet (2005), 1 Gbps/I-Net WAN, Central servers, Aruba wireless*
- 2006 **\$6.0 M** WAN Phase 2, Instructional Presentation Systems
 - *100 Mbps Internet, 1 Gbps/I-Net WAN, Central file server, Aruba wireless to classrooms*
- 2010 **\$10 M** WAN Phase 3, Classroom Audio, VoIP Phones, Routers
 - *2 Gbps Internet (2 ISPs), 10 Gbps/1 Gbps WAN, Virtual servers, ShoreTel VoIP phone system, Google (2012)*
- 2014 **\$6.5 M** School Network Modernization, NCHS WAN, Storage, BYOD
 - *22 Gbps Internet, 20/10/1 Gbps WAN, more virtual, double wireless, 11,000 iPads and Chromebooks deployed*
- 2018 **\$8.1 M** School Networks, Routers, Switches, Wireless, 10G WAN
 - *22 Gbps Internet, 40/10 Gbps WAN, all virtual, 1:1 Student devices (over 20,000 devices total), Microsoft O365*



2022-26 Technology Bond Projects

MAINTENANCE

The current Technology infrastructure requires regular replacement of equipment just to keep the level of performance and capabilities we currently have.

CONSTRUCTION

Most schools are still depending on network cable installed in the early 1990s.

CLASSROOM TECHNOLOGY

Systems that are ten years old or older need to be modernized.

NEW PROJECTS

These are projects that will enhance our existing services or bring in new technologies.

MAINTENANCE

Wireless Modernization - 1,600 APs will age out by 2026 in 27 schools

Switch Modernization - 200 switches to replace those aging out and provide more power

Firewalls and Internet Equipment - 10-year-old equipment will need to be replaced

Phone System Replacement - 12-year-old system will move to cloud/hybrid model

WAN Fiber Pathways - Major pathways need to be replaced due to State construction.

CONSTRUCTION

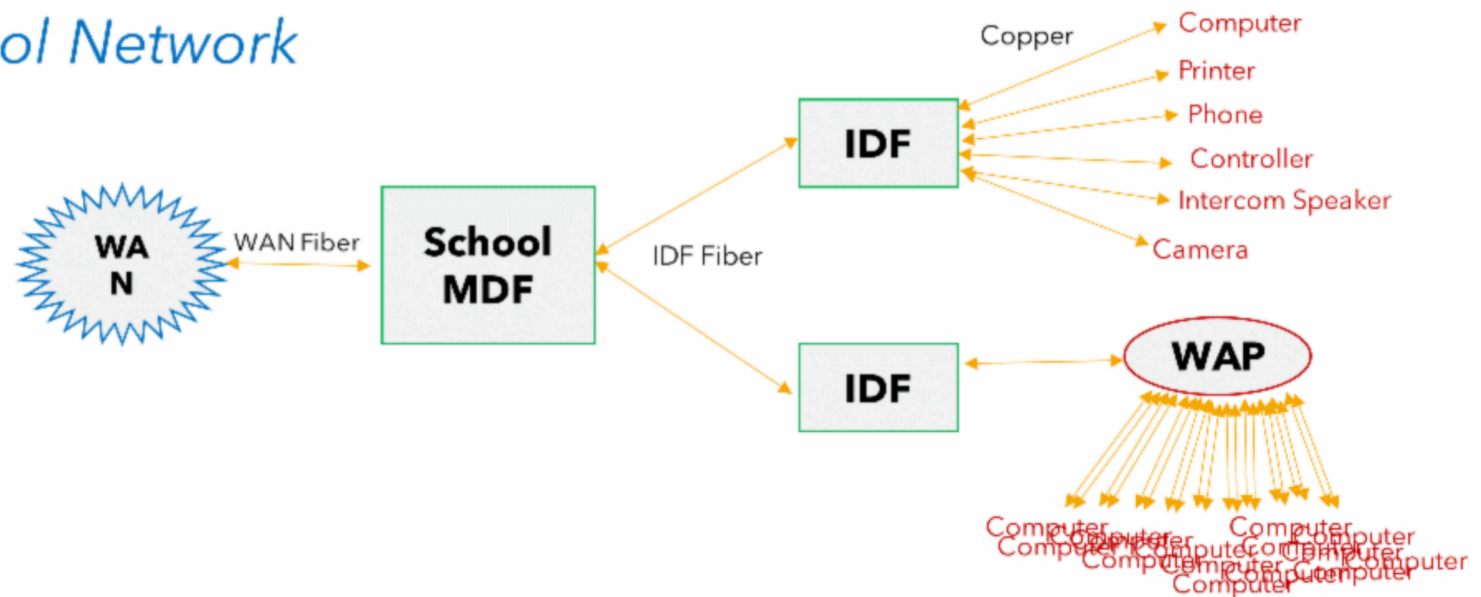
Elementary School Wiring Modernizations

Faster fiber optic interconnects, faster wiring to wireless access points

Middle School Wiring Modernizations

Faster wiring to wireless access points

• Typical School Network





CLASSROOM TECHNOLOGY

Audio Enhancement Modernization

Replace 10-year-old equipment with enhanced systems



NEW PROJECTS

Outdoor Wireless Network Coverage

Coverage for open spaces between buildings on school campuses

Cellular Enhancement in Buildings

Improve cellular reception in buildings.

NOTE: *NOT allowed to enhance cellular outside of buildings due to FCC restrictions!*

A photograph of a young woman with long dark hair, wearing a white lab coat, sitting at a desk and typing on a laptop. The background is a blurred classroom with other students and desks. The text 'Q&A' is overlaid in the center in a blue, hand-drawn font with a white outline.

Q&A

Administrative Computing

Replace all workstations for staff in Central Administration and Support Services during the 2022-26 cycle.

Instructional Technology

To see that Levy-funded educational technology projects are successful and have the most sustained impact to teaching and learning, the 2022-2026 levy should maintain funding for the existing 4 Instructional Technology Coordinators and fund additional Instructional Technology Coordinators as recommended to add to the cadre of professionals that support technology integration in Northshore.

Learning Analytics

SchoolData.net's Homeroom tool provides a robust data dashboard across platforms. LearnPlatform's toolset collects, analyzes, and presents data regarding user engagement with learning platforms used by students. Support of both will continue and increase into the 2022-26 Levy Cycle. Expansion of Learning Analytics will include staffing Specialist position(s), developing and executing training for administrators, teachers, and families.

Learning Management Systems

To ensure that Northshore students, families and staff have a consistent platform for teaching and learning, the 2022-2026 levy should maintain funding for Learning Management Systems, including Schoology, SeeSaw and Clever.

Levy Support Staff

Continue to provide funding for staff positions which support the technology purchased and software systems implemented by the District in this next Levy cycle 2022-26.

Operational Systems

For the systems identified, collaborate with end-users to select and implement a system that will best meet the District's needs. These implementations will include training for support staff and users. In some cases it may also involve business process revisions.

Professional Development

To see that educational technology projects are successful and have the most sustained impact to teaching and learning, the 2022-2026 levy should provide stipends for each certificated staff member to be used in accordance with a plan to be crafted through a collaboration between NSEA and NSD representatives: the use of these hours will be anchored in technology implementations and curricular initiatives, coaching and use of technology tools as described in RCW 28A.320.330(2)(f).

Software Maintenance

Provide continued funding for the support of standardized software systems used throughout the District both in classrooms by students and by staff to support the business functions of the District.

NOTE: This includes webfiltering tools and resources. PD includes Digital Citizenship for teachers (and thus students).

Student Devices 1:1+1

Build up the District's current inventory of a variety student devices and assign those devices to students for daily use in a way that is relevant to changing instructional models and not bound to the location of learning in order to get the right devices distributed to students at the appropriate age levels and for the specific programs of each school. This will include the purchase of new devices to increase inventory as well as the purchase of new devices to replace aging and broken devices in an ongoing refresh cycle.

Tech Support Students/Families

This project would provide one or more staff members to respond to a student and family technology support line. These staff members would provide technical support in English and and in Spanish. They would work in collaboration with our current Help Desk staff. Via Help Desk, they would be available to support staff members who prefer to communicate in Spanish.

Presentation Systems

This project focuses on replacing and upgrading the components of our classroom presentation systems across the district. The Technology Department will work with staff and students to purchase appropriate equipment that modernizes and maintains a common set of tools in every school across the levy cycle. Includes new display systems (ie. flat panels, interactive touch panels), document cameras, tablet computers, web cameras and other video recording devices, and wireless screen sharing devices.

Adaptive Technologies

This project would provide resources to implement a supported and robust library of software and hardware tools for students to use appropriate to their learning goals, regardless of special education status.

Additionally, the Adaptive Technology Program should provide for staffing to implement tools and concepts of Universal Design for Learning with teachers and students and to provide professional development for staff who work with these tools and the students they will serve.

Printers

This project seeks to maintain the fleet of printers on hand in the district with an aim to reduce the number of printers over the course of the levy cycle.

Aging printers will not necessarily be replaced, but printers may be redistributed to maximize efficiency and access to print services. This project may also include the implementation of print services, that could allow for more agile workflows between users and printers to avoid unnecessary printing and duplicate print jobs from staff and students.

Supplemental Digital Resources

This project would provide funding to support the implementation of supplemental digital resources for learning to standardize the options available for teachers and students, provide a more consistent experience for students and their families, and to provide professional learning opportunities on a few (rather than hundreds) of tools that may duplicate functionality.

A background image of a student with long dark hair, wearing a white shirt, sitting at a desk and typing on a laptop. The laptop screen shows a webpage with text and a sidebar. In the background, other students are visible at their desks, and the classroom environment is slightly blurred.

Break Out!

Think. Pair. Share.

The following is a list of needs that have been identified in previous meetings.

Prioritize them from highest to lowest by moving them to the right. **Rank** their sense of urgency high to low based on the GUIDING PRINCIPLES you identified in the previous breakouts.

Administrative Computing

Instructional Technology

Learning Analytics

Learning Management Sytems

Levy Support Staff

Operational Systems

Professional Development

Software Maintenance

Student Devices 1:1+1

Tech Support Students/Families

Presentation Systems

Adaptive Technologies

Printers

Supplemental Digital Resources

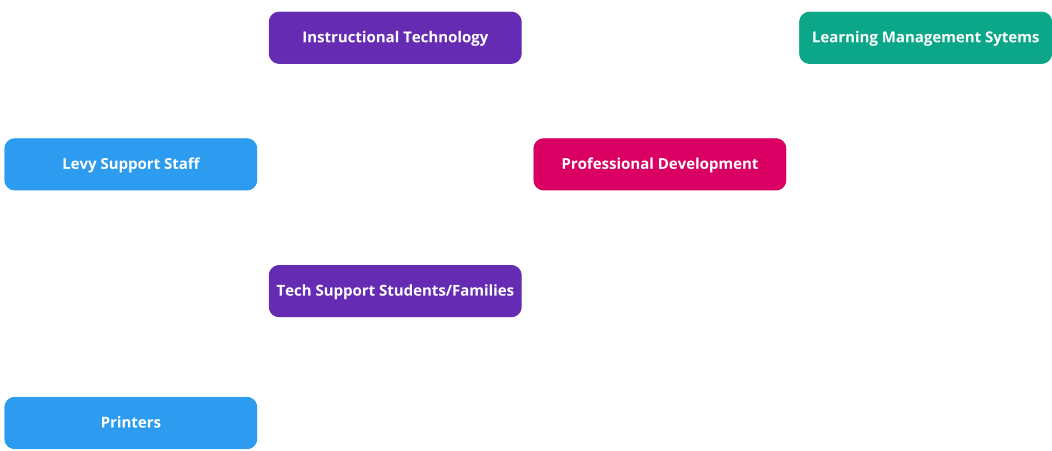
When reporting out be prepared to explain what each choice means to your group.

HIGH PRIORITY

MID PRIORITY

LOW PRIORITY

The following is a list of needs that have been identified in previous meetings. **Prioritize** them from highest to lowest by moving them to the right. **Rank** their sense of urgency high to low based on the GUIDING PRINCIPLES your team identified in the first breakout.

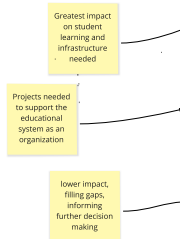


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Proposals:
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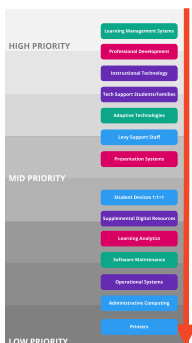
When selecting cut be prepared to explain what each choice means to your organization.

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We know printers are important, but let's keep making them less necessary.



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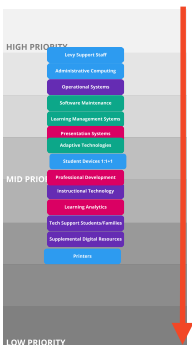
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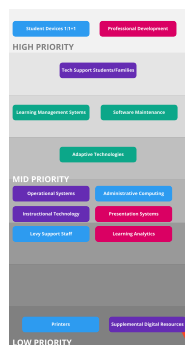
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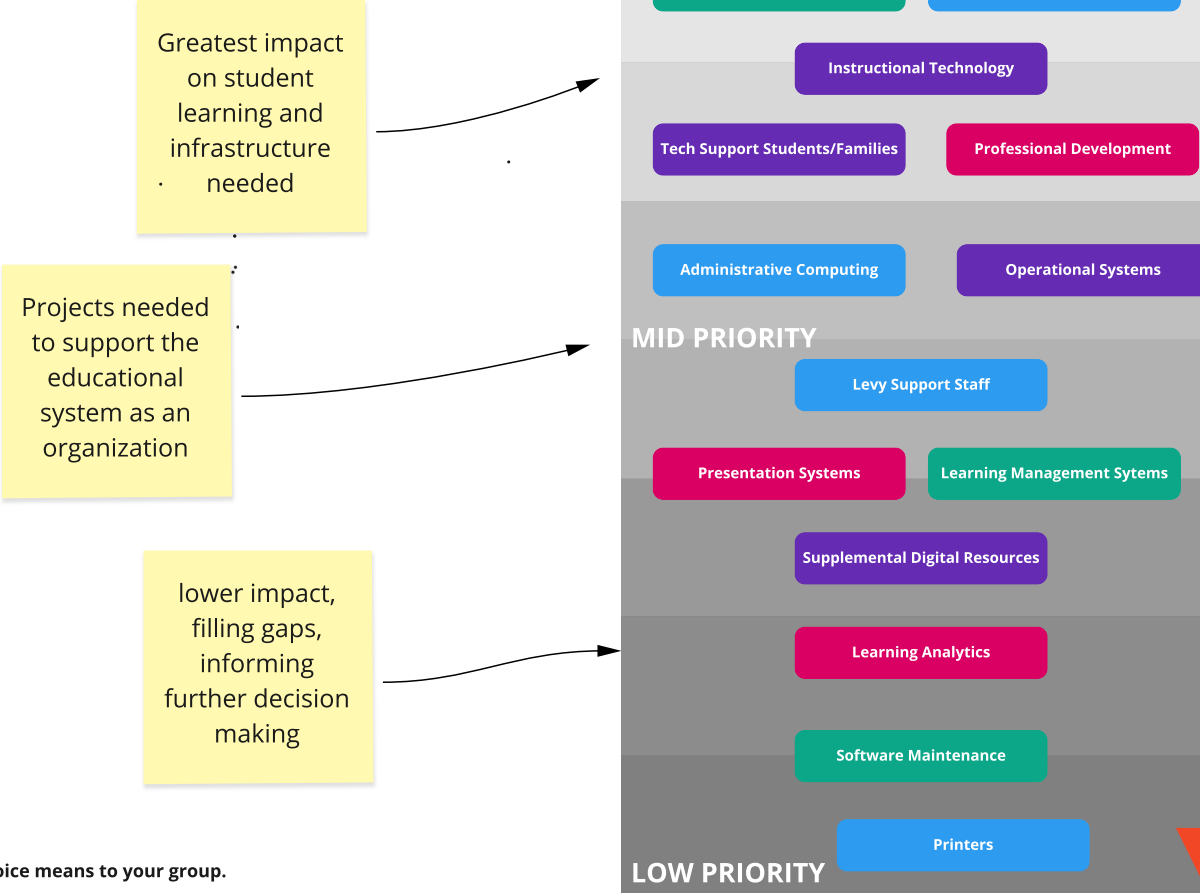
Where necessary, we have sought to explain what each choice means to your group.

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When considering such an approach to evaluate what work change means to users, several

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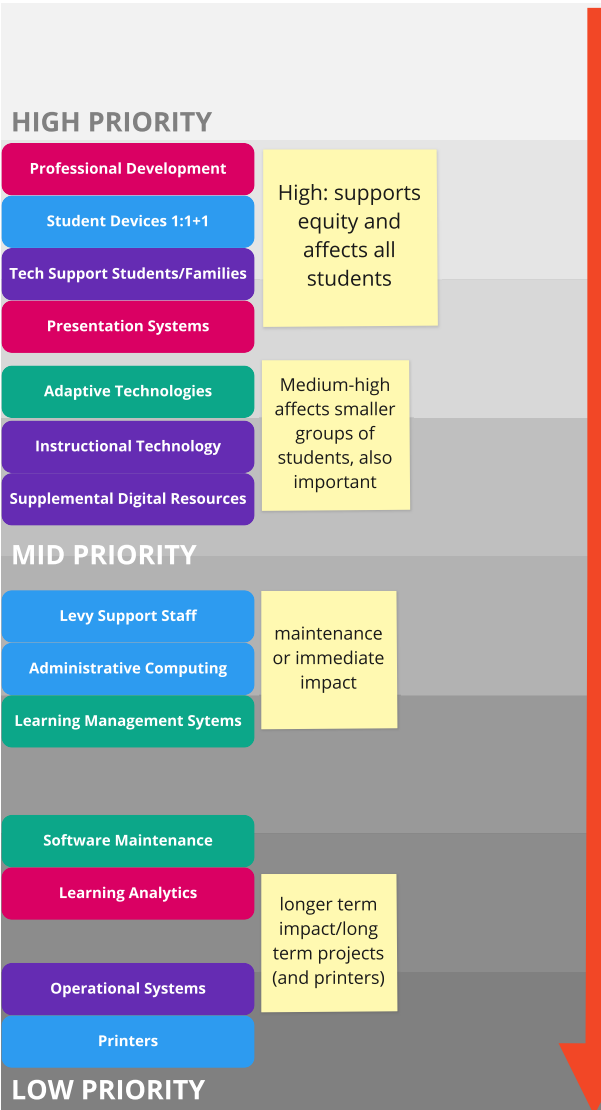


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Clustered Projects that seemed to fit together or depended on one another

Prioritized projects as "expand" v. "maintain" current level more than "not important"

When reporting out be prepared to explain what each choice means to your group.



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Very important that support is there for students and families to make 1:1+1 really work and adaptive tech is an important piece

The tools students and teachers need

The support needed to make the usage successful

We know printers are important, but let's keep making them less necessary.

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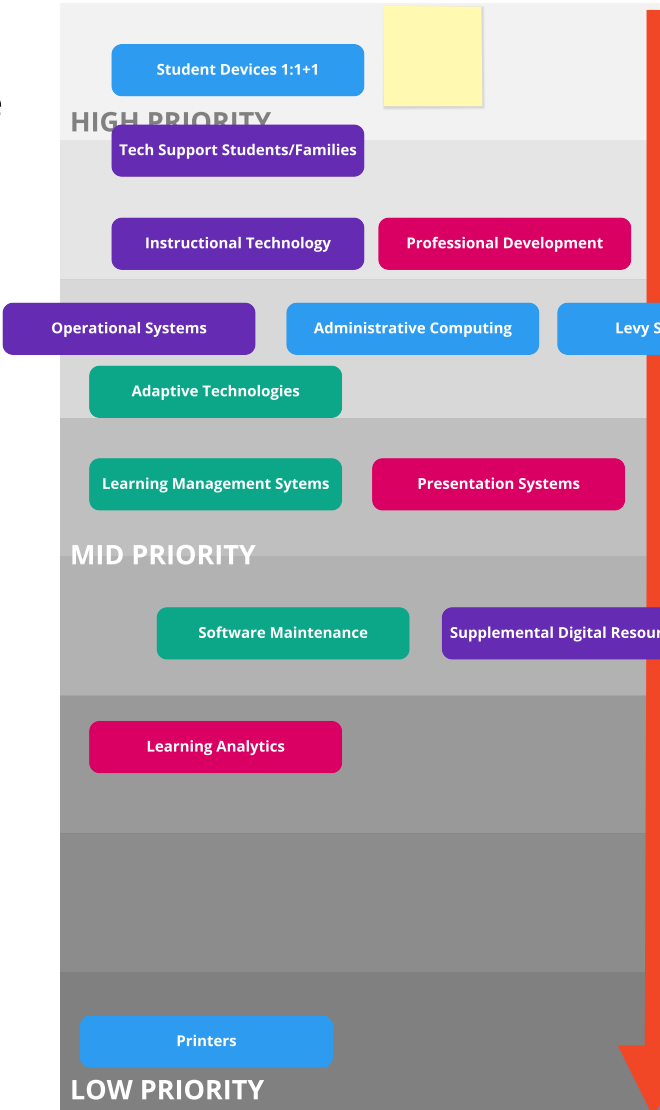
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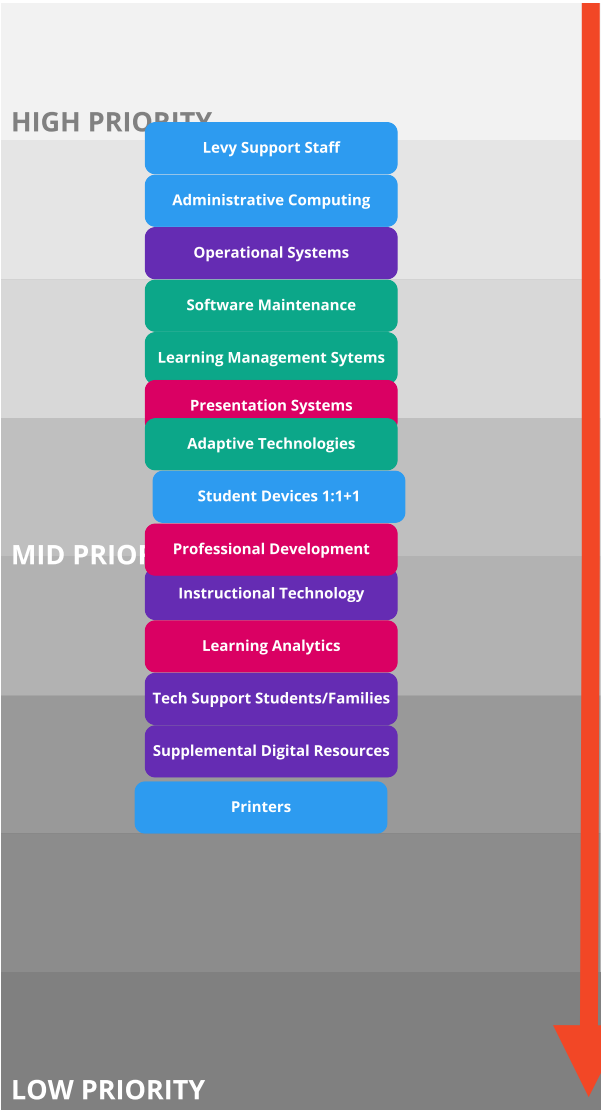
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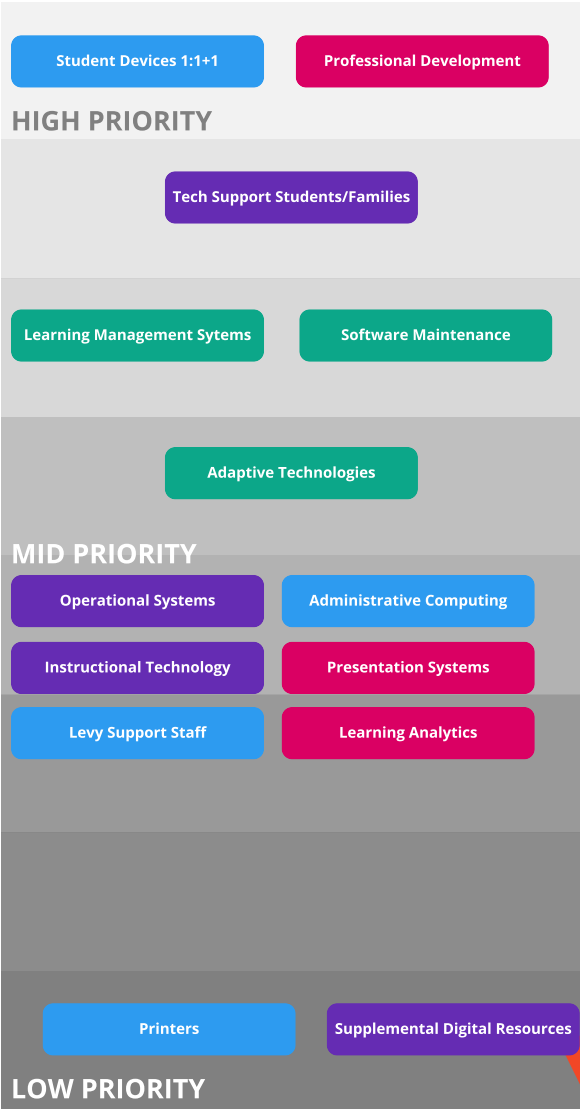
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Report Out!

Share.



Closing



Thank you!

The next meeting is:

Tuesday, May 25, 5:30-7:30 p.m.

Summaries of today's meeting will be sent to each of you and posted to the website along with meeting minutes.

If you have any questions about the Miro tools we discussed today, please contact:

Ashley McClaran amcclaran@oacsvcs.com

and

Krista Lutz klutz@oacsvcs.com