



Learning Technology In Our Schools

A Look at Technology Past, Present and Future

[View the 2019-2022 Technology Plan](#)

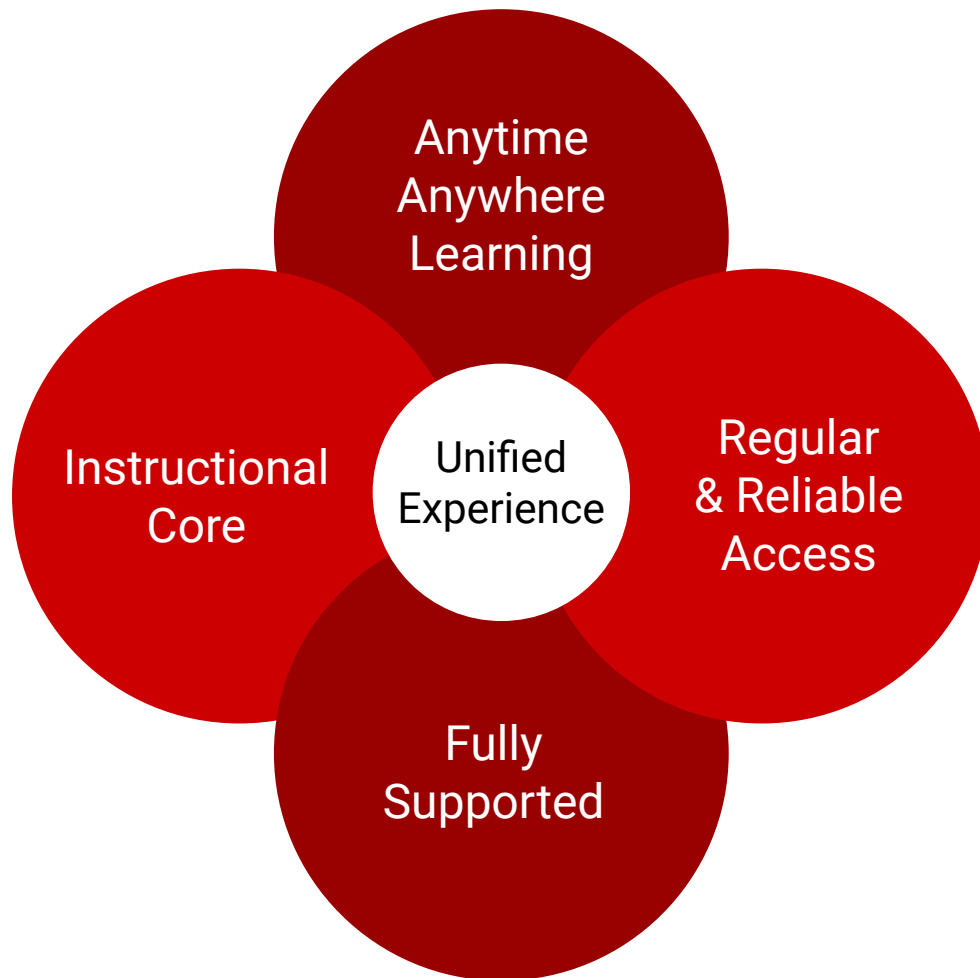
Learning & Innovation Technology Vision

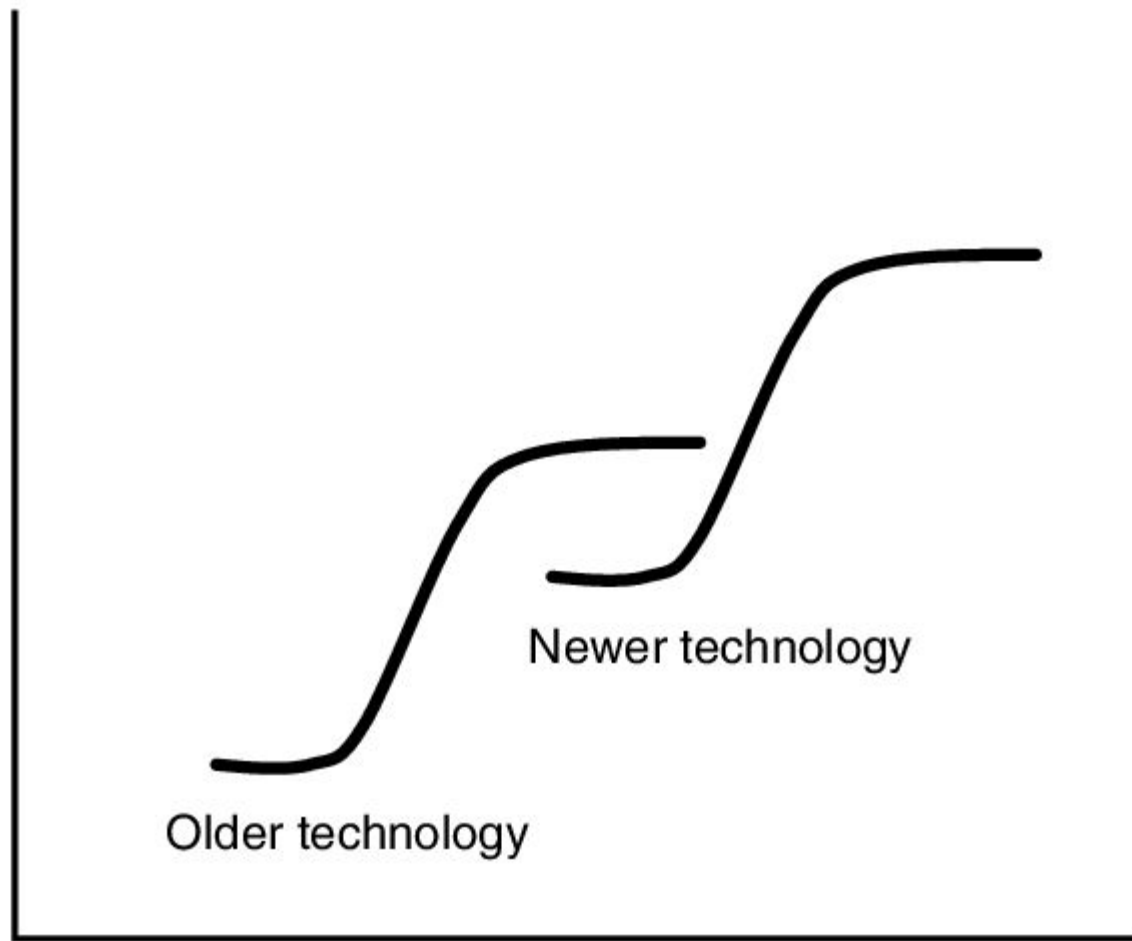
- Students can find and access their educational resources at anytime from anywhere.
- Personalized learning environments provide each student with unimpeded access to their unique educational resources.
- Students and teachers have regular and reliable access to standard classroom technology equipment that enables them to present and engage with each other in collaborative learning environments.
- Students learn and succeed in mixed-mode environments where they have access to other students, teachers, and a web of knowledge and resources.



Stillwater
AREA PUBLIC SCHOOLS

Educational Technology Tenets





Older technology

Newer technology

Challenges with Skyward Environment

- **Usability Issues:**

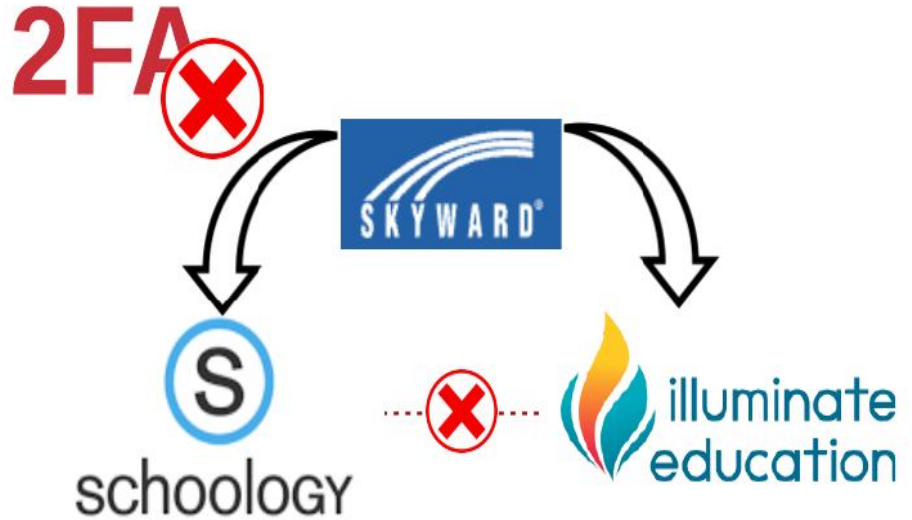
- No Standards Based Report Card
- No support for customized reports

- **Integration Problems:**

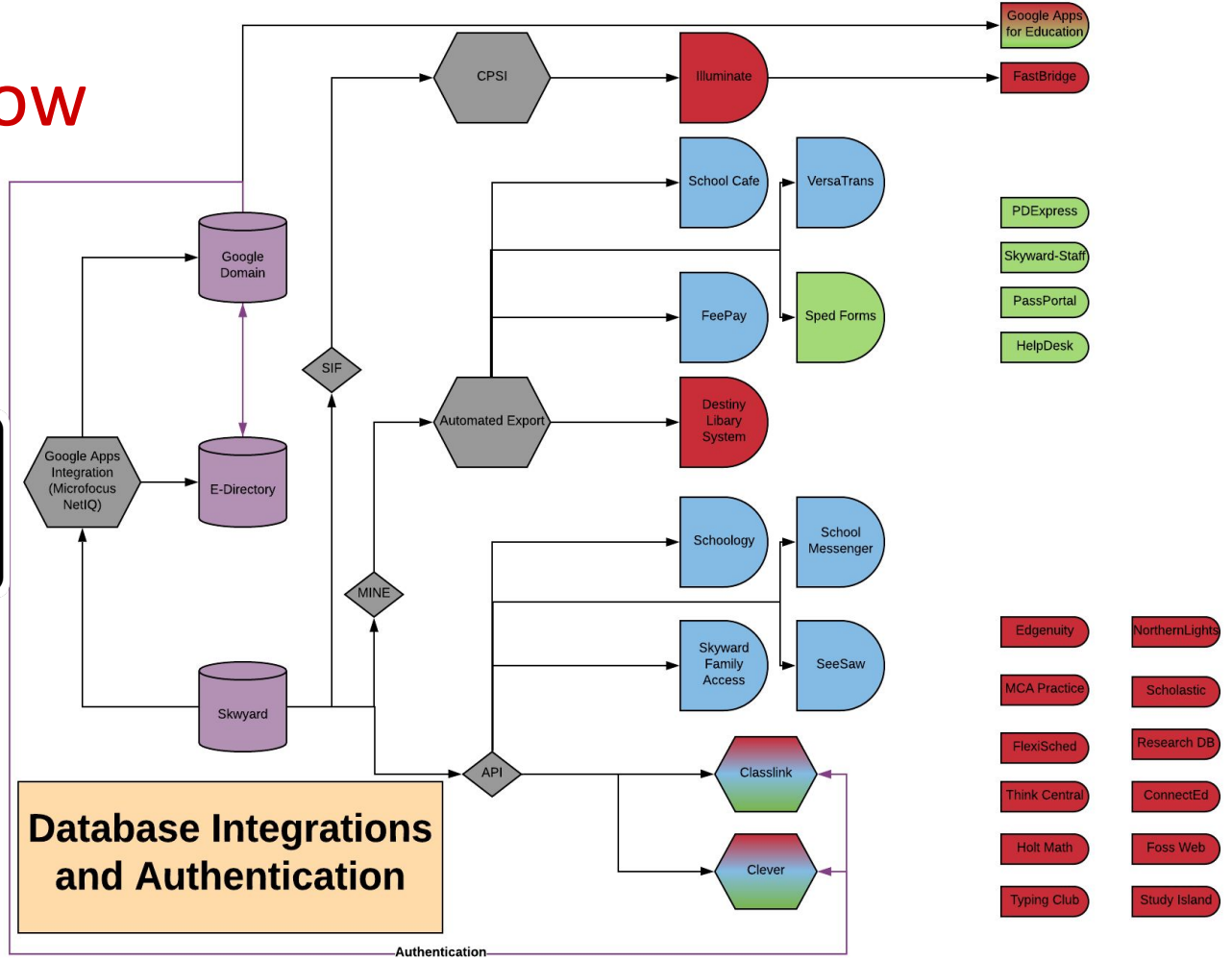
- No support for 2-way integrations or automated data imports
- No Parent Access for Illuminate

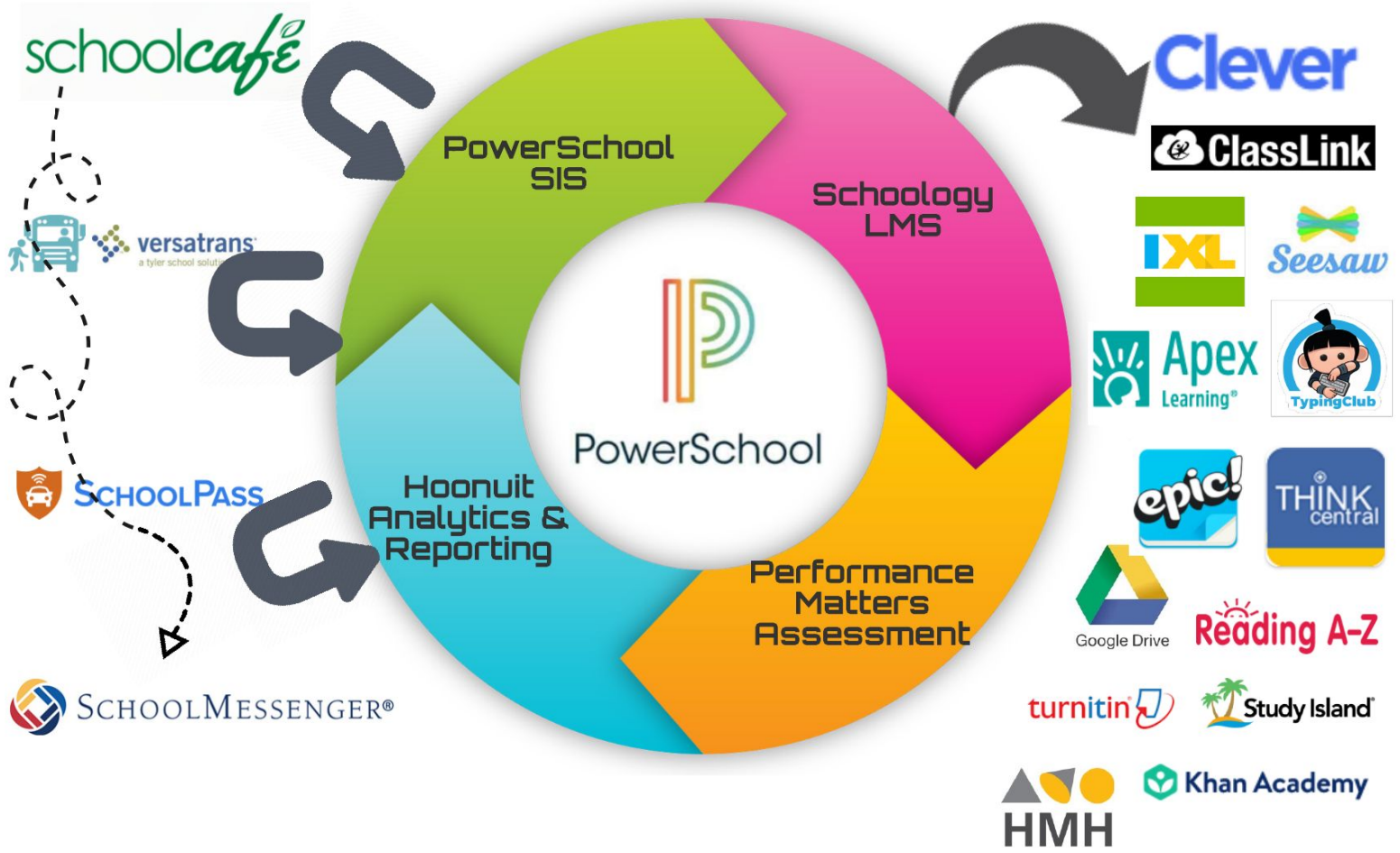
- **Security Concerns:**

- No support for 2 Factor Authentication
- Requires data sharing across 4+ companies



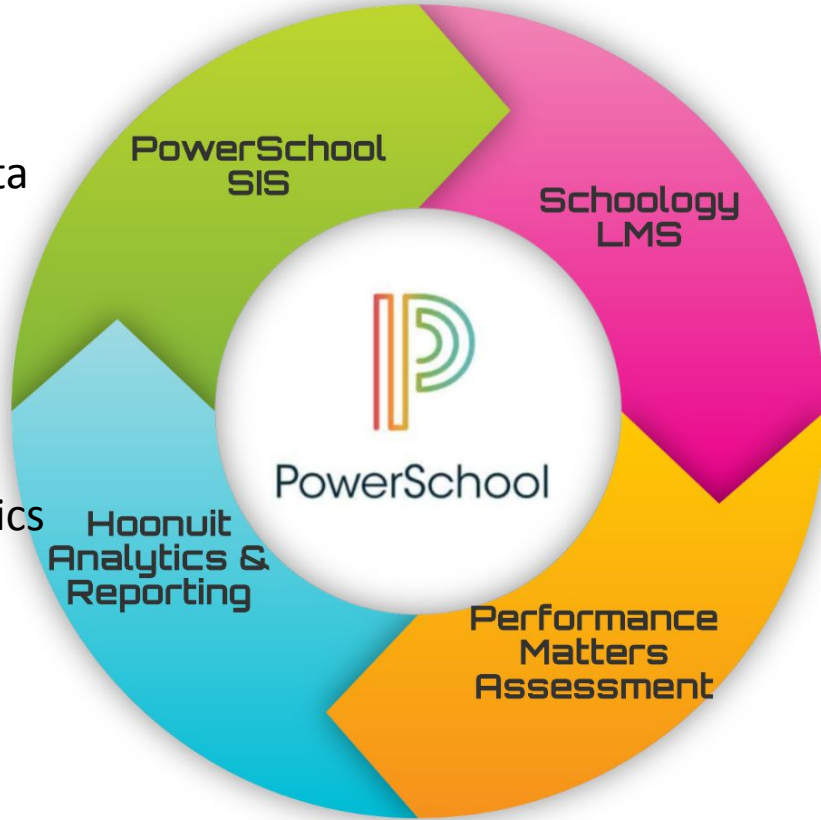
System Data Flow





Security & Cost

- Better Account Security
- Less 3rd Party Data Sharing / Fewer Vendor Partners
- Better Data Integration
- Integrated Analytics Engine
- Lower Cost Over Time



Added Features

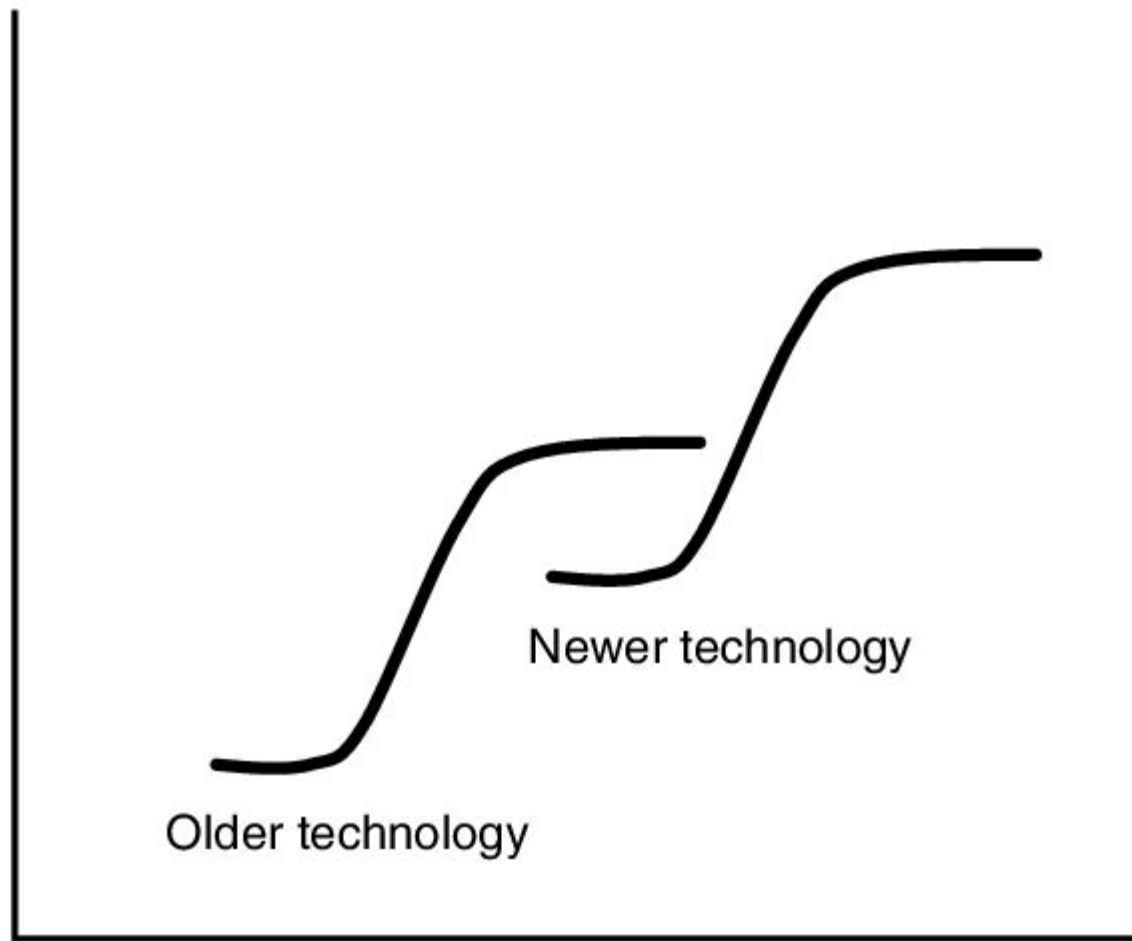
- Standards based gradebooks
- Online Enrollment
- Enhanced Forms Support

Automated Import Support

- SchoolCafe
- VersaTrans

Better integration with:

- Laserfiche
- SmartSchoolK12
- SchoolMessenger
- Gmail



Current Reality

- We spend \$2.8 million from the General Fund to support technology

On average:

- Teacher/staff devices are replaced every 8 years
- Chromebook carts are replaced every 5+ years
- Classroom projectors are replaced every 10+ years

Did You Know?

- Minnetonka and Edina receive about \$6 million every year through a tech levy, and Hopkins receives \$11 million annually.
- Not having a tech levy means we have longer replacement cycles and no budget for replacement devices.

Student iPad & Chromebook Devices

School Name	Min. required # for Testing	Current Total Supported	Exp. 2019	Exp. 2020	Exp. 2021	Exp. 2022	Expired & in use	Total iPads (K-2)	
Afton-Lakeland	108	219	0	29	36	154	64	90	
Andersen	72	161	0	41	36	84	76	90	
Brookview	108	168	0	0	36	132	122	90	
Lake Elmo	180	200	0	0	0	200	124	150	
Lily Lake	108	222	0	11	108	103	94	90	
Rutherford	108	203	0	8	0	195	182	150	
Stonebridge	108	207	0	6	0	201	131	90	
OMS	340	739	0	184	0	555	277	0	
SMS	340	821	0	320	140	361	228	0	
SAHS	1360	2244	68	163	97	1916	308	0	
Total	2832	5184	68	762	453	3901	1606	780	

We currently lack a designated funding source to replace expired devices

One-time COVID funds paid for new devices, but won't help with maintenance/upgrades



Technology levy would:

- Provide classroom devices, teacher and student computers
- Keep technology up-to-date
- Give students reliable access to technology tools at school and at home
- Provide students and staff with technology support and training
- ***Support infrastructure, software and security needs***

Without a technology levy:

- No dedicated funding source for technology, equipment, support staff and purchases
 - Device and technology costs would continue to come from the general fund
- Technology support and maintenance of devices for students, families and staff would be limited
- Device update cycles would be delayed
- Increased security requirements will syphon funds from classroom technology budgets





Questions?

Problem Statements

Skyward doesn't support required 2 Factor Authentication

- Unresolvable security issue

Skyward is not compatible with the district's Single Sign On provider

- Skyward requires unique IDs and doesn't support Google Auth.

Skyward has limited API support for future integrations

- Limits potential maturity/evolution of software enhancements. We need data flowing in both directions.

Problem Statements

Schoology doesn't connect to Illuminate

- Gradebook doesn't connect to Assessments

Skyward doesn't support a standards-based gradebooks

- Need for more advanced gradebook features

Skyward doesn't support auto-import of data

- All imports must be manually run (NSLP, Bussing, Library, etc)

Skyward/Schoology integration is problematic

- Grade synchronization errors create grade discrepancies

Skyward does not support custom reports

- We cannot generate our own reporting tools (Immunization, Transfer, Transcript, BARR, etc). Non-native reports must be run through extracts and spreadsheets for calculation.

Problem Statements

Parents can't access Illuminate

- No practical way to enable parent access

 - Parent account setup for all district systems is overly complicated

- Setup takes approximately 1 hour per parent

 - District lacks data analytics software

- Must plug into all other software

 - District lacks academic & behavioral alert system

- Notification to principals of students who may need additional support

 - District lacks online enrollment system for new students

- All enrollments were handled by paper

Ideal Solution

- 1) Fully Integrated core environment
 - a. Learning Management System
 - b. Student Information System
 - c. Assessment System
 - d. Analytic and Reporting System
- 2) 3rd Party integration and customization support
 - a. Custom reporting
 - b. High level 3rd party API support (2 way data)
 - c. User account automation support

Ideal Solution

3) Universal Secure Access

- a. Support for Google Auth (SSO)
- b. Support for 2 Factor Authentication
- c. Embedded Authenticated 3rd Party Support
- d. Parent Access to all core systems

4) Additional Features

- a. Standard Based Grading and Reporting
- b. Online Enrollment
- c. Lower Cost
- d. Add Analytic and Reporting System

7 Major Challenges of Implementing PowerSchool

- 1) Automation of Account Creation
- 2) Parent Attendance App
- 3) Reintegration of Existing Systems
- 4) Automated Data Imports
- 5) Issuing New Parent Accounts
- 6) District-wide Learning Curve
- 7) Limited Resources for Implementation

7 Major Accomplishments

- 1) Enabled Online Enrollment
- 2) Integrated Payment System (SmartSchoolK12) into PowerSchool
- 3) Integrated Gmail
- 4) Enabled SSO & 2FA Security for Staff
- 5) Reintegrated Clever, SeeSaw, Schoology, and other learning apps
- 6) Implemented Performance Matters, Migrated Illuminate
- 7) Implemented Google-based Parent Accounts

Adversity

School Conferences

Moving to PowerSchool forms from PTC Wizard

Account Automation

Behind Schedule. Manually processing until automation is restored.

Logins Effected: PowerSchool, Schoology, SchoolCafe

Attendance App

Implemented behind schedule (Monday)