Technology Tools for Tomorrow

GREAT FALLS
GREAT SCHOOLS

TECH TOOLS
FOR STUDENT SUCCESS
GFPS Believes…

• Technology is a tool that supports our mission to successfully educate students to navigate their future.

• Technology engages students and promotes collaboration.

• As our students prepare for college, career, and citizenship, technology is a key ingredient for success.

• It is an extension of students’ current reality.

• Technology is a skill for life.

Technology – Strategic Plan

• Student Achievement
  • Via the P-12 Technology Curriculum and Technology Plan, the District will strategically use technology to promote greater academic success and achievement.
    • Continue implementation plans for all areas of the curriculum to ensure meaningful technological integration
    • Provide ongoing professional development
    • Develop and/or identify measures of efficacy (identify common questions to measure technology effectiveness through walkthrough tool)
    • Determine an ongoing funding strategy for technology
    • Enhance technological opportunities for students

• Stewardship and Accountability
  • Develop Incident Response policy in regards to data privacy and security incidents

• Healthy, Safe and Secure Schools
  • Enhance video surveillance coverage to establish and maintain base coverage in all schools
  • Begin deploying external visual/auditory warning systems in selected (eventually all)
Technology Matters...

Student testimonials:

“I like how it is personalized to go at your own pace for more individualized learning. Chromebooks make assignments cooler, challenging, and way more fun.” Adam

“I think that some of the programs on the Chromebook make you strive for better learning, like Google Sheets. We wouldn’t have gotten as much enjoyment or learned as much if we did assignments on paper and turned it in.” Jillian

“I feel that Chromebooks in math class have made math a lot more interesting and fun. They also have made it more efficient for us in class.” Kendra

“These Chromebooks have helped me really stretch my mind and have helped me make my mind think a lot about how to do something. I love the coding!” Ethan

“We have taught first graders how to code computers during the Hour of Code.” Taylee

“They enhance the learning for me by opening a wide variety of projects and activities to do. It also teaches us practical Google application skills.” Sam
Technology Matters…

Teacher testimonials:

The use of high quality technology allows me to:

- Differentiate easily and effectively
- Increase the depth of instruction
- Increase opportunities to develop perseverance and problem solving skills
- Easily adapt lessons to fit needs of the class based on formative assessment
- Increase engagement
- Increase in excitement for learning

Mrs. Skawinski

I am seeing:

- Increased student based / project based learning
- Increased product variety
- Increased student engagement
- Decreased behavior incidents
- More efficiencies:
  - Quick start times
  - Easier transitions

Mr. Dues

The accessibility, flexibility and relevancy of my lessons are enhanced by technology. These in turn have enhanced student engagement.

Mrs. Harrington
Technology – General Fund

2018-2019 Technology General Budget
$2,109,682

- Salary, 1,054,747 - 50%
- Supplies, 347,927 - 16%
- Data for Achievement, 254,180 - 12%
- Tech Serv., 25,500 - 1%
- Benefits, 59,158 - 3%
- Misc Expenses, 17,320 - 1%
- Software, 350,850 - 17%
2018-2019 Technology Budgeted Revenue
Total $2,491,234

- Technology Levy, $225,000 - 9%
- E-rate, $156,552 - 6%
- State Funding, $0 - 0%
- General Fund*, $2,109,682 - 85%

*Includes Data for Achievement - $254,180 (from reserves)
TECH LEVY HISTORY…

• 17 years ago, our community recognized the need to invest in technology.

• In May 2002, voters approved perpetual tech levies for both districts:
  • Elementary District - $150,000
  • High School District - $ 75,000

• 2017 Technology Levy
  • GFPS requested increase in High School District to $500,000. Levy failed 8207 (52.3%) against to 7475 (47.7%) for. This was seven months after the bond levy passed.
  • Have utilized federal, state and GFPS Foundation grants, general funds, and donations (PTAs, businesses, etc.) to support technology in our schools.

• Today, Great Falls is lagging behind other communities in available tech resources.
Technology Levy Distribution

2018-2019 Technology Distribution
Elementary - $150,000 / Secondary - $75,000 / Reserves - $2,000*

- C.M. Russell High School, 34,368
- North Middle School, 15,266
- Paris Gibson Education Center, 6,727
- Chief Joseph Elementary, 6,496
- Great Falls High School, 33,905
- Giant Springs Elementary, 7,613
- East Middle School, 15,530
- Lewis & Clark Elementary, 8,607
- Lincoln Elementary, 8,567
- Longfellow Elementary, 6,050
- Loy Elementary, 8,181
- Meadow Lark Elementary, 10,333
- Morningside Elementary, 5,989
- Mountain View Elementary, 6,598
- Riverview Elementary, 9,196
- Whittier Elementary, 5,014
- Sunnyside Elementary, 9,013

*Early Learning Center funded from reserves
How is the levy spent?

Refresh/Replacement Equipment

- Desktop computers
- Laptops
- Printers / Toner
- Projectors / Bulbs
- Document Cameras
- Application Servers
- Network Switches
- Wireless Access Points

New Equipment Purchases

- Computers
- Mobile Carts
- Promethean Panels
- Program Licenses

Professional Development

- Project Based Learning
- Training for select applications
Technology Levies – AA Districts

AA DISTRICT TECHNOLOGY LEVIES
Reported from MT OPI GEMS FY 2018

This graph shows the total and per student revenues from local technology levies. This graph does not show expenditures.

- Belgrade Public Schools: 3,358 students, $124,054
- Great Falls Public Schools: 10,542 students, $228,316
- Butte Public Schools: 3,059 students, $286,236
- Kalispell Public Schools: 3,160 students, $606,332
- Bozeman Public Schools: 7,102 students, $191,88
- Helena Public Schools: 8,332 students, $656,107
- Missoula Public Schools: 9,227 students, $173,28
- Billings Public Schools: 17,392 students, $115,10

* Levy for Elementary only. H.S. from General fund.
Technology Levies – AA & A Districts

AA & A DISTRICTS WITH TECHNOLOGY LEVIES
PER STUDENT ALLOCATION
Reported from MT OPI GEMS FY 2018
Technology Ending Balances

Large purchases for technology at Great Falls High, new Longfellow and equipment replacements will draw this balance down.

AA Districts Ending Technology Balances
Reported from MT OPI GEMS FY 2018

- Belgrade Public Schools 3,358
- Great Falls Public Schools 10,542
- Butte Public Schools* 3,059
- Kalispell Public Schools* 3,160
- Bozeman Public Schools 7,102
- Helena Public Schools 8,332
- Missoula Public Schools 9,227
- Billings Public Schools 17,392
Technology Levy Law: Then & Now

**Current Levy**
- Levies approved *prior to July 1, 2013*
- Perpetual
- $$ is used for equipment, network access and training of school personnel
- Levy voted on May 2002
- Went into effect – 7/1/2002
- Perpetual Levy
- Elementary District - $150,000
- High School District - $75,000

**New Levy**
- Levies approved *after July 1, 2013*
- May not exceed 10 years
- Must be used for equipment, training and repair.
# 2018-2019 Equipment Expenditures

<table>
<thead>
<tr>
<th>Company</th>
<th>Expenditure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dell</td>
<td>$455,071</td>
</tr>
<tr>
<td>School Tech Supply (STS)</td>
<td>$433,685</td>
</tr>
<tr>
<td>Fisher's Technology</td>
<td>$146,737</td>
</tr>
<tr>
<td>Crescent Electric</td>
<td>$107,591</td>
</tr>
<tr>
<td>MicroK12</td>
<td>$75,498</td>
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<tr>
<td>Earthwalk</td>
<td>$51,114</td>
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<tr>
<td>Computer Dealers Inc (CDI)</td>
<td>$46,821</td>
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<tr>
<td>NorthWest Wholesale Ink</td>
<td>$43,827</td>
</tr>
<tr>
<td>Sound Pro</td>
<td>$23,406</td>
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<tr>
<td>Continental Computers</td>
<td>$14,442</td>
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<tr>
<td>Troxell</td>
<td>$10,007</td>
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<tr>
<td>Computer Discount Warehouse (CDW)</td>
<td>$5,696</td>
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<tr>
<td>ACP Direct</td>
<td>$3,440</td>
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<tr>
<td>Koss Headphones</td>
<td>$2,808</td>
</tr>
<tr>
<td>Apple</td>
<td>$2,597</td>
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<tr>
<td>AV Center</td>
<td>$2,093</td>
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<tr>
<td><strong>Totals</strong></td>
<td><strong>$1,424,832</strong></td>
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</tbody>
</table>
# 5 Year Technology Plan Budget

**Assumptions:**
- 5 year replacement schedule
- New vs refurbished equipment
- 1:1 in High Schools

<table>
<thead>
<tr>
<th>Category</th>
<th>Cost</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replacement Equipment</td>
<td>$936,250</td>
<td>500 student desktops @ $500/ea &lt;br&gt;715 student laptops @ $500/ea &lt;br&gt;715 Chromebooks @ $250/ea &lt;br&gt;300 staff computers @ $500/ea</td>
</tr>
<tr>
<td>New Equipment</td>
<td>$250,000</td>
<td></td>
</tr>
<tr>
<td>Infrastructure Equipment</td>
<td>$100,000</td>
<td></td>
</tr>
<tr>
<td>Wiring/Network</td>
<td>$50,000</td>
<td></td>
</tr>
<tr>
<td>Professional Development</td>
<td>$50,000</td>
<td>Above DD and PIR Training</td>
</tr>
<tr>
<td>Staff - Training</td>
<td>$250,000</td>
<td>4 Technology Coaches</td>
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<tr>
<td>Technology Levy Total</td>
<td>$1,636,250</td>
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## Option A Levy Increase

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>Elementary District (Perpetual)</td>
<td>$150,000</td>
</tr>
<tr>
<td>High School District (for 10 years)</td>
<td>$500,000</td>
</tr>
<tr>
<td>• Equipment replacement</td>
<td>$325,000</td>
</tr>
<tr>
<td>• New equipment</td>
<td>$166,500</td>
</tr>
<tr>
<td>• Staff development</td>
<td>$8,500</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$650,000</strong></td>
</tr>
</tbody>
</table>
## Option B Tech Levy Increase

### Elementary District (for 10 years) - $500,000
- Equipment replacement - $325,000
- New equipment - $166,500
- Staff development - $8,500

### High School District (for 10 years) - $500,000
- Equipment replacement - $325,000
- New equipment - $166,500
- Staff development - $8,500

### Total - $1,000,000
## Option C Tech Levy Breakdown

### Equipment (computers)
- **Windows**
  - Desktop - 3818 $500/ea
  - Laptop - 1100 $750/ea
- **Apple** - 441 $750/ea
- **Chromebook** – 4454 $250/ea

Total cost $4,178,250 / 5 year replacement - $835,650

### Equipment (other)
- **Printers** - 316 $250/ea
- **Doc Cameras** - 414 $350/ea
- **Projectors** - 600 $600/ea

Total cost $583,900 / 5 year replacement - $116,780
## Option C Tech Levy Breakdown

<table>
<thead>
<tr>
<th>Elementary</th>
<th></th>
<th>Secondy</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Replacement Computers</td>
<td>$557,100</td>
<td>Replacement Computers</td>
<td>$278,550</td>
</tr>
<tr>
<td>Replacement Other</td>
<td>$77,853</td>
<td>Replacement Other</td>
<td>$38,927</td>
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<tr>
<td>New Equipment</td>
<td>$150,000</td>
<td>New Equipment</td>
<td>$75,000</td>
</tr>
<tr>
<td>Infrastructure Equipment</td>
<td>$66,667</td>
<td>Infrastructure Equipment</td>
<td>$33,333</td>
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<tr>
<td>Wiring/Network</td>
<td>$33,333</td>
<td>Wiring/Network</td>
<td>$16,667</td>
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<tr>
<td>Professional Development</td>
<td>$20,000</td>
<td>Professional Development</td>
<td>$10,000</td>
</tr>
<tr>
<td>Staff - Training</td>
<td>$125,000</td>
<td>Staff - Training</td>
<td>$125,000</td>
</tr>
<tr>
<td>Staff - Repair</td>
<td>$24,000</td>
<td>Staff - Repair</td>
<td>$12,000</td>
</tr>
<tr>
<td>Technology Levy Total</td>
<td>$1,053,953</td>
<td>Technology Levy Total</td>
<td>$589,477</td>
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</tbody>
</table>


Option C Tech Levy Increase

Elementary District (for 10 years) - $1,000,000
High School District (for 10 years) - $600,000
Total $1,600,000
**Option C Tech Levy – General Fund relief**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infrastructure equipment &amp; wiring</td>
<td>$100,000</td>
</tr>
<tr>
<td>Staff Training</td>
<td>$125,000</td>
</tr>
<tr>
<td>Staff Repair</td>
<td>$ 36,000</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$261,000</strong></td>
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# Recap of Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Elementary District (Perpetual)</th>
<th>High School District (for 10 years)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option A</td>
<td>$150,000</td>
<td>$500,000</td>
<td>$650,000</td>
</tr>
<tr>
<td>Option B</td>
<td>$500,000</td>
<td>$500,000</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>Option C</td>
<td>$1,000,000</td>
<td>$600,000</td>
<td>$1,600,000</td>
</tr>
</tbody>
</table>

**Option D**
No Levy increase
5 Take Away Points

• As our nation becomes increasingly more technology-dependent, it becomes even more necessary that to be successful citizens, students must learn to be tech-savvy.

• Equipment is aging and obsolete. For students to be engaged, they need reliable and optimal performing tools.

• Funding has remained static for 17 years and can no longer support our dependence and growth in the digital age.

• Technology is transforming the classroom providing diversity in learning styles and fostering collaboration and critical thinking skills.

• Working together WE have the opportunity to improve education in Great Falls for years to come.
Questions?