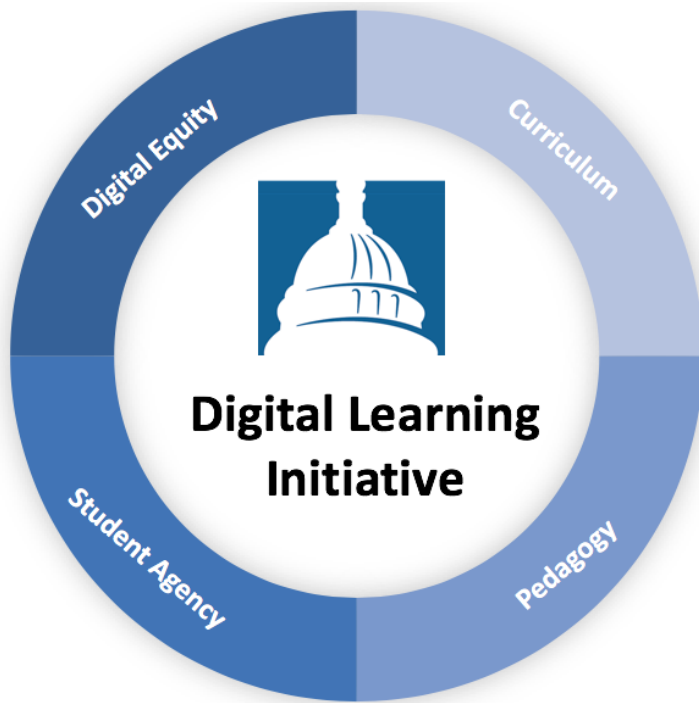


A Capital Commitment: Promote Equity



Rationale

- Technology is no longer a luxury – it’s a basic and necessary tool to navigate life.
- This initiative aims to **integrate technology into DCPS curriculum** to enhance the learning experience **for every student**, and accelerate progress toward our vision for creating empowered and engaged communities of learners.

Calling for Equity

Calling for Equity: Parents and Families

- Parent groups and organizations who are involved with advocating for equitable and improved access to working technology for DCPS students.
 - Cleveland Elementary
 - John Burroughs Elementary
 - Amidon-Bowen Elementary
 - Payne Elementary
 - Miner Elementary
 - J.O. Wilson Elementary
 - Houston Elementary
 - Hardy Middle School
 - Washington Lawyers' Committee for Civil Rights & Urban Affairs
 - Senior High Alliance of Parents, Principals & Educators
 - Capitol Hill Public Schools Parent Organization
 - Alice Deal Middle School
 - Eliot-Hine Middle School

- Inequity snapshot*:
 - Lafayette Elementary School – Approximately one working device per student (1:1)
 - C.W. Harris Elementary School – Less than 0.2 working devices per student (5:1)

* January 2018 inventory data: ±15% margin of error as devices condition change frequently. Next Inventory update due in January 2019.

Calling for Equity: Our City

Surrounding School Districts with 1:1 Initiatives

- Alexandria City Public Schools
- Arlington Public Schools
- Falls Church City Public Schools
- Loudoun County Public Schools
- Montgomery County Public Schools
- Prince George County Public Schools
- Prince William County Public Schools

DC Charter Schools with 1:1 Initiatives

- DC Bilingual Public Charter School
- Digital Pioneers Academy
- District of Columbia International School
- Eagle Academy PCS at Congress Heights & Capitol Riverfront
- Early Childhood Academy Public Charter School
- Washington Leadership Academy



Our City: Connections to Smarter DC & DC Connect

The Future Is Changing. Here Are The Facts:

- Technology is rapidly transforming our world and economy at an accelerating pace.
- The #1 source of all new wages in the U.S. are in computing occupations.
- 65% of children starting school today will likely work in roles that don't currently exist.
- Washington, D.C. has 10,000+ open computing jobs.
- The average salary for a computing occupation in D.C. is more than \$108,000.
- The majority of jobs now and in the future will require a computer science background.

Calling for Equity: Our System

- Opportunity gap: Our schools are unequal in the numbers of working devices and the opportunity students have to use devices for high-agency work using modern tools and technologies.
- 1:1 can add two weeks of instructional time by reducing PARCC Testing Window. Schools that are only 3:1 are at a disadvantage both because of the opportunity gap and because of reduced instructional time. With 1:1 all students would have more opportunity to achieve.

DCPS Can't Wait: Technology Challenges in the District

- Significant Immediate shortage of devices
 - High risk of districtwide OSSE mandated assessments (PARCC, ACCESS, DC Science, MSSA) administration challenges
 - **Microsoft support for Windows 7 will end in January 2020 – 65% of student devices on Windows 7**
- Insufficient “At-Risk” technology funding
- Price of devices too high due to the lack of bulk purchase negotiating power. For about \$3.5M/year, we are not even keeping the 3:1 ratio – actually sliding backward as devices age out and break.
- CBEs can charge up to 20% higher than direct vendor prices
- Council approval timeline is at least 45 days including Office of Contracts & Acquisitions standard lead times of 180 days
- DCPS no longer receives OSSE Grant funding used for annual device purchases

DCPS is Ready!

DCPS is Ready: 2017-2018 Advancing Innovation Cohort Results

**Accelerating Innovation Cohort
2017-2018**



STUDENT ENGAGEMENT
Fostering curiosity and independence



EMPOWERMENT
21st Century Skills
Opens up the world to our kids



OWNERSHIP
Students taking pride in devices
Tools to own learning

LaSalle, Johnson, Jefferson, McKinley MS, McKinley HS

2018 PARCC Score Increases		
<u>AIC</u>	% increase (ELA)	% increase (Math)
Johnson	+7.3	+9
Jefferson	+12.1	+2.9
LaSalle	+6.1	+2.6
McKinley MS	+3.5	+1.4
McKinley HS	+28.1	+4.4
<u>Verizon/Digital Promise</u>		
Hart (only partial year)	+2	+9
CHEC (score includes both MS & HS, but only MS in program)	+8	+6.5
Truesdell	+4.1	+5.3

DCPS Is Ready: Technology Infrastructure

- DCPS has invested significantly in our schools' IT infrastructure to support 1:1
- 97% of our schools upgraded to high-speed internet with remaining schools scheduled in FY19
- Wi-Fi coverage within schools at approximately 95% with remaining coverage scheduled in FY19
- Implemented a district-wide IT Asset Management inventory system
- Comprehensive device protection including theft insurance, data loss prevention, and accidental damage protection
- Plan in place to increase technical support for schools

The Proposal

PHASED ROLLOUT STRATEGY

Fully Integrated Curriculum and
Professional Development Support



Recommendation

Y1

- Spring 2019
- 3:1 Ratio All Schools
- 1/3 of the District

Y2

- SY 2019-2020
- All Middle and High
- 2/3 of the District

Y3

- SY 2020-2021
- Elementary 2nd - 5th
- Full District

Recommended Approach – Phased 1:1 for All Grades (Annual Lease)

- All students on a single standard device deployed and managed centrally
- Predictable Annual Cost

1:1

	Phased Rollout Annual Cost (Lease)	Professional and Curriculum Development
Year 1 (FY20): All schools 3:1	\$3.6M (Yr 1)	\$135.5K
Year 2 (FY21): All MS and HS 1:1 Maintain 3:1 in ES	\$6.3M (Yr 2)	\$644K
Year 3 (FY22): All MS and HS 1:1 Grades 2-5 1:1 Maintain 3:1 in PK-1	\$8.75M (Yr 3 and beyond)	\$917K

Alternative 1: Achieve and Maintain 3:1 for All Grades

- Achieve minimum 3:1 requirement in FY19 by adding 9000 new devices
 - Maintain 3:1 in FY20 by adding 3000 new devices
- Will result in a mix of student devices across district varying in model and age

3:1

	Cost (Lease option)	Cost (Purchase option)	Professional and Curriculum Development
3:1 Rollout in Spring 2019	\$2M (Yr 1)	\$5.2M (Yr 1)	\$151K
Maintain 3:1 in FY20 and Beyond	\$2.7M (Yr 2 and beyond)	\$1.6M (Yr 2)	\$917K

Alternative 2: Achieve 3:1 PK-12, then single year rollout of 1:1 for All Grades 2-12

- Achieve minimum 3:1 requirement in FY19 by adding 9000 new devices
 - Achieve 1:1 in FY20 by adding 32000 new devices

1:1

	Cost (Lease option)	Cost (Purchase option)	Professional and Curriculum Development
3:1 Rollout in Spring 2019	\$2M (Yr 1)	\$5.2M (Yr 1)	\$151K
1:1 Rollout for Grades 2-12 in FY20	\$8.9M (Yr 2 and beyond)	\$22.9M (Yr 2)	\$917K

Alternative 3 – Achieve and maintain 3:1 all schools, add 1:1 for All One Star Schools (school list TBD)

- Achieve minimum 3:1 requirement in FY19 by adding 9000 new devices
- Achieve 1:1 in FY20 in One Star schools by adding 5000 (assumption) new devices

1:1

	Cost (Lease option)	Cost (Purchase option)	Professional and Curriculum Development
3:1 Rollout in Spring 2019	\$2M (Yr 1)	\$5.2M (Yr 1)	\$151K
1:1 Rollout for One Star Schools in FY20	Est. \$3.1M (Yr 2 and beyond)	Est. \$3.5M (Yr 2)	Est. \$477K

One to One: Sustainable Future-Ready Learning

- Long-term commitment - Multi-year contracts for affordable, always up-to-date devices through a leasing model
- Schools will continue to fund teacher and staff laptops through allocated technology budget
- 1:1 eliminates the need for shared devices (computer labs, etc.) – Specialty Career and Technical Education equipment funded through CTE's Perkins Grant

Prepared to Thrive



PD and School Support Structure

Role	Function	Cost	Number
Manager, Future-Ready Learning	Supports two clusters in integrating best practices for making technology a tool for learning in support of future-ready graduates.	\$112K each	1 per 2 clusters served. Number is the same for 3:1 and 1:1, as both require smart usage to achieve their potential.
Manager, Curriculum and PD Innovation	Works with content teams to integrate future-ready pedagogy and content into curriculum and PD	\$112K each	1
Analyst, Future Ready Schools	Works with schools and teachers to solve logistical, login, and vendor issues.	70k each	1
Future-ready school lead	School-based teacher or administrator acting as point person for future-ready learning in collaboration with Central Office	\$1,500 each (stipend)	116

PD Budget Detail

Recommended Phased Rollout

	Fy 19	Fy 20	Fy 21	
Proposal 1 3:1, 1:1 SS, 1:1 ES				
1 Manager, Future-Ready Learning per 2 clusters to support best use of technology	\$ 51,977	\$ 224,376	\$ 560,941	Existing specialists can be moved into these manager positions so additional ask is small. Y2 = 1 HS and 1 MS manager, Y3 add 3 ES managers
Manager, Future-ready Learning, partial year to prep for next grade band		\$ 168,282		The managers for ES would need to start in April to be ready for summer PD and fall ES rollout
1 Manager, curriculum and PD innovation	\$ 12,994	\$ 115,554	\$ 112,188	Align existing curriculum, LEAP, and online PD to reflect best tech practices
Analyst, Future-Ready Schools	\$ 70,586	\$ 70,586	\$ 70,586	School support with vendors, login issues, etc.
Future-ready School Lead Stipends @\$1,500		\$ 69,000	\$ 174,000	
Total	\$ 135,558	\$ 644,433	\$ 917,715	
Total ask	\$ 3,735,558	\$ 6,294,433	\$ 9,027,715	

PD Budget Detail: Alternative 1 (3:1 all schools PK-12)

	Fy 19	Fy 20	Fy 21
Alternative 1: Achieve and Maintain 3:1 all schools PK-12			
Fy 21+A10:D17	\$ 38,983	\$ 560,941	\$ 560,941
1 manager technology logistics and curriculum integration	\$ 112,188	\$ 112,188	\$ 112,188
1 Analyst, technology logistics		\$ 70,586	\$ 70,586
School Tech Integration Lead Stipends @\$750each		\$ 87,000	\$ 87,000
Total	\$ 151,171	\$ 830,715	\$ 830,715
Total ask	\$ 3,751,171	\$ 4,430,715	\$ 4,430,715

PD Budget Detail Alternative 2 (Single-year 1:1 Rollout)

	FY 19	FY 20	FY 21
Alternative 2: Achieve 3:1, then single year 1:1 Grades 2:12			
Managers, Tech Integration managers 1 Secondary and 2 ES	\$ 51,977	\$ 560,941	\$ 560,941
Manager, Future-ready Learning, partial year to prep for next grade band	\$ 168,282		
1 Manager, curriculum and PD alignment	\$ 12,994	\$ 112,188	\$ 112,188
1 Analyst, technology logistics	\$ 70,586	\$ 70,586	\$ 70,586
School Tech Integration Lead Stipends @\$1,500		\$ 174,000	\$ 174,000
Total	\$ 303,840	\$ 917,715	\$ 917,715
Total ask	\$ 3,903,840	\$ 9,017,715	

PD Budget Detail Alternative 3 (3:1 plus Maintain 1:1 in SY19 1-Star schools)

	FY 19	FY 20	FY 21
Alternative 3: Achieve and maintain 3:1 PK12, 1:1 in 1-star schools			
1 Manager, Future-Ready Learning per 2 clusters to support best use of technology	\$ 51,977	\$ 224,376	\$ 224,376
Manager, Future-ready Learning, partial year to prep for next grade band	\$ -	\$ 168,282	\$ 168,282
1 Manager, curriculum and PD alignment	\$ 12,994	\$ 112,188	\$ 112,188
1 Analyst, technology logistics	\$ 70,586	\$ 70,586	\$ 70,586
School Tech Integration Lead Stipends @\$1,500	\$ -	\$ 69,000	\$ 69,000
Total	\$ 135,558	\$ 644,433	\$ 644,433
Total ask	\$ 3,735,558	\$ 6,294,433	\$ 6,294,433