Board Advanced Technology Committee

Presentation to District 64
Board of Education
April 22, 2013

Part II:
Pacing & Implementation Options
and Financial Considerations

Recommendation Summary

❖ Based on its findings, **the committee believes learning in District 64 should be: collaborative, creative, connected to the real world, flexible, differentiated, self-paced, inquiry-based, and integrated with technology.**

❖ **Therefore, it is the recommendation of the Board Advanced Technology Committee that all students in District 64 have equal access to the digital resources necessary to support 21st century learning and the implementation of the CCSS in a one-to-one computing model.**

Focus on Learning

❖ The vision for 1:1 computing is founded in quality 21st century teaching and learning.

  ❖ Considerations:

    ❖ Professional Development

    ❖ Measurements for Success

    ❖ The Right Tool for the Job

    ❖ Infrastructure

Professional Development

❖ Instructional Technology Coaches

  ❖ Maintain one per building

  ❖ Focus on technology integration to support implementation of the CCSS and NETS

❖ Steering Committees for Learning Strategies

  ❖ Inquiry-based learning

  ❖ Flipped classrooms

Measurements for Success

❖ Data Collection based on NETS for Teachers and Students

   ❖ Develop rubrics through TIC and ITC's

   ❖ Collect benchmark data throughout the year to monitor progress

   ❖ For example: NETS-T Rubric

The Right Tool for the Job

❖ Other Digital Resources:

   ❖ Continued access to laptops, iPads, and computer labs to support specialized needs

   ❖ Software to meet specific needs of elective courses

   ❖ SmartBoards and/or LCD projectors to facilitate interactive instruction

Infrastructure

- ❖ Wireless Network
  - ❖ Switches
  - ❖ Access Points
  - ❖ Network Cabling
- ❖ Bandwidth
  - ❖ Increase from 100 Mbps to 200 Mbps

Implementation & Pacing Options

Implementation & Pacing Options

❖ Option 1: 1:1 Chromebooks for Grades 3-8

   ❖ 3-year timeline, beginning with grades 3 and 6

	Year 1 (2013-14)	Year 2 (2014-15)	Year 3 (2015-16)
Grade 3	1:1	1:1	1:1
Grade 4	Chromebooks on Carts	1:1	1:1
Grade 5	Chromebooks on Carts	Chromebooks on Carts	1:1
Grade 6	1:1	1:1	1:1
Grade 7	Chromebooks on Carts	1:1	1:1
Grade 8	Chromebooks on Carts	Chromebooks on Carts	1:1

Implementation & Pacing Options

❖ Option 1: iPads for K-2

   ❖ iPads: 3-year decrease from 1:4 to 1:2 ratio

	Year 1 (2013-14)	Year 2 (2014-15)	Year 3 (2015-16)
Kinder	1:4	1:3	1:2
Grade 1	1:4	1:3	1:2
Grade 2	1:4	1:3	1:2

Implementation & Pacing Options

❖ Option 2: 1:1 Chromebooks for Grades 3-8

   ❖ 2-year timeline, beginning with grades 3, 5, and 7

	Year 1 (2013-14)	Year 2 (2014-15)
Grade 3	1:1	1:1
Grade 4	Chromebooks on Carts	1:1
Grade 5	1:1	1:1
Grade 6	Chromebooks on Carts	1:1
Grade 7	1:1	1:1
Grade 8	Chromebooks on Carts	1:1

Implementation & Pacing Options

❖ Option 2: iPads for K-2

   ❖ iPads: 2-year decrease from 1:4 to 1:2 ratio

	Year 1 (2013-14)	Year 2 (2014-15)
Kindergarten	1:4	1:2
Grade 1	1:4	1:2
Grade 2	1:4	1:2

Implementation & Pacing Options
-Recommended Option-

❖ Option 3: 1:1 Chromebooks for Grades 3-8

    ❖ 2-year timeline, beginning with carts only then 1:1 in all grades 3-8

	Year 1 (2013-14)	Year 2 (2014-15)
Grade 3	Chromebooks on Carts	1:1
Grade 4	Chromebooks on Carts	1:1
Grade 5	Chromebooks on Carts	1:1
Grade 6	Chromebooks on Carts	1:1
Grade 7	Chromebooks on Carts	1:1
Grade 8	Chromebooks on Carts	1:1

Implementation & Pacing Options
-Recommended Option-

❖ Option 3: iPads for K-2

    ❖ iPads: 2-year decrease from 1:4 to 1:2 ratio (same as in Option 2)

	Year 1 (2013-14)	Year 2 (2014-15)
Kindergarten	1:4	1:2
Grade 1	1:4	1:2
Grade 2	1:4	1:2

Financial Details for Recommended Option 3

Financial Details for Recommended Option

❖ Device Selection

	iPad	Chromebook
Internal Memory	16GB	16GB
Keyboard	N/A (sold separately for $20-$60)	Integrated
Case	Approx. $20	Approx. $20
Management System & Collaboration/Monitoring Tool	N/A	$50 per device
Unit Cost	$379 (iPad 2) $479 (iPad 3)	$249
Compatible for PARCC	Yes, but only with keyboard	Yes
TOTAL COST	**$399-$499**	**$319**

Financial Details for Recommended Option

❖ Year 1

*K-2 Students (1068)	267
# of iPads on Carts for K-5	140
Total # of iPads Needed	407
# of Existing iPads	337
# of iPads to Purchase	70
Approximate Total Cost for iPads for Year 1 (2013-14) ($400 per Unit)	$28,000

Financial Details for Recommended Option

❖ Year 1

	Elementary	Middle School	Total	Cost Per Unit	Total Cost
Existing budget: # of Laptops Budgeted to Replace	99	58	157	$1,200	$188,400
Alternate use of budget: # of Chromebooks	425	250	675	$280	$189,000

Financial Details for Recommended Option

❖ Year 1

SmartBoards for K-5	72
SmartBoards for 6-8	12
Total Cost for SmartBoards for Year 1 (2013-14) ($2,800 per Unit)	$235,200*

Financial Details for Recommended Option

❖ Year 1

Wireless Access Points & Switches	$129,212
Network Cabling	$12,000
Bandwidth Upgrade (200 Mbps)	$13,200 ($1,100 per month)
Approximate Total Cost for Infrastructure for Year 1 (2013-14)	$154,412

Financial Details for Recommended Option

❖ Year 1

iPads (1:4 for Grades K-2)	$28,000
Chromebooks (On Carts for Grades 3-8)	$189,000
SmartBoards	$235,200*
Infrastructure	$154,412
SUBTOTAL	$606,612
Amount Currently Budgeted	$453,660*
TOTAL APPROXIMATE ADDITIONAL COST FOR YEAR 1 (2013-14)	$152,952

Financial Details for Recommended Option

❖ Year 2

*K-2 Students (1,050)	525
# of Existing iPads for K-2	267
# of iPads to Purchase in 2014-15	258
Approximate Total Cost for iPads for Year 2 (2014-15) ($400 per Unit)	$103,200

Financial Details for Recommended Option

❖ Year 2

	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	TOTAL
# of CBs	430	477	465	474	525	531	2,902
Approx. Cost ($320 each)	$137,600	$152,640	$148,800	$151,680	$168,000	$169,920	$928,640

Number of Chromebooks for Grades 3-8	2,902
Number of Existing Chromebooks from 2013-14	675
Total Number to Purchase for 2014-15	2,227
Approximate Total Cost for Chromebooks for Year 2 (2014-15) ($320 per unit)	$712,640

Financial Details for Recommended Option

❖ Year 2

iPads (1:2 Grades K-2)	$103,200
Chromebooks (1:1 Grades 3-8)	$712,640
Infrastructure Upgrades	Completed in 2013-14
SUBTOTAL	$815,400
Amount Currently Budgeted*	$453,660*
TOTAL APPROXIMATE ADDITIONAL COST FOR YEAR 2 (2014-15)	$362,180

Financial Details for Recommended Option

❖ Summary of Costs for 2-Year Implementation

Total Approximate Additional Cost for Year 1 (2013-14)	$152,952
Total Approximate Additional Cost for Year 2 (2014-15)	$362,180
APPROXIMATE TOTAL ADDITIONAL COST ABOVE PLANNED 2-YEAR BUDGET	**$515,132**

Insurance Options

❖ Dependent on device ownership

❖ 3rd Party

❖ District-Managed

Next Steps

❖ Questions/Discussion

❖ Request for Approval of Recommended Option in Late Spring

Thank You

Co-Facilitators:
❖ Dr. Phil Bender, Superintendent
❖ Dr. Terri Bresnahan, Director of Technology

District 64 Staff:
❖ Allison Blum, Technologist (RO)
❖ Gini Burns, Teacher (EM)
❖ Sue Herman, Technologist (LI)
❖ Dr. Lori Hinton, Assistant Superintendent for Student Learning
❖ Franny Keyes, Teacher (LI)
❖ Jason Mata, Teacher (FI)
❖ Barbie Murphy, Speech Language (JE)
❖ Dr. Tony Murray, Principal (LI)
❖ Caroline Schaab, Instructional Technology Coach (RO)
❖ Nancy Sweeney, Teacher (FR)
❖ Jon Urbanski, Manager of Technology
❖ Amanda Walsh, Instructional Technology Coach (LI)
❖ Dan Walsh, Principal (FR)

Community Members:
❖ Scott Altman, Parent (WA, LI)
❖ Bill Basquin, Parent (JE, RO)
❖ Paul Brown, Parent (CA)
❖ Carrie De La Cruz, Parent (FR)
❖ Sara Greiner-Carolan, Parent (FR)
❖ Kendra Griffin, Parent (LI)
❖ Dave Iffland, Parent (FI, EM)
❖ David Langlands, Parent (RO)
❖ Paul McCarthy, Parent (WA)
❖ Doug Miller, Parent (CA)
❖ Janice Oliva, Parent (WA)
❖ Tony Sivore, Parent (FI, EM)
❖ Nancy Zver, Teacher (Mary, Seat of Wisdom)

Liaisons:
❖ Hank Thiele, Chief Technology Officer Maine 207
❖ Bernadette Tramm, District 64 Public Information Coordinator
❖ Scott Zimmerman, District 64 Board of Education Vice President

Questions/Discussion