

ICT Technology Planning Standing Committee

FEBRUARY 5, 2019

Technology Planning - Agenda



- Planning framework
- What we do
- Planning Cycle
- Current Technology Plan
- Review Process
- New Technology Plan how do we get there?

Technology Planning - Framework



- Ten Year Plan
 - We (ICT) provide seamless and appropriate information and communications technology to serve all aspects of learning and to support our operations.
 - All our schools are now equipped with wireless and we continue to embrace the application of technology as a tool for education and for collaboration

Technology Planning - Framework

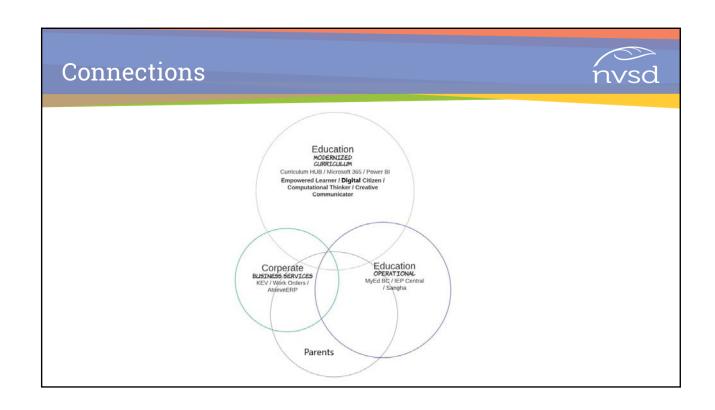


- Three Year Operating Plan
 - Continue to develop the 21st century classroom with embedded technology supporting teaching and learning
 - Continue to provide innovative programming and teaching, with an examination for potential expansion in the areas of:
 - STEM (Science, Technology, Engineering, and Math)

What We Do



- Support people
 - 16000 students, 2500 staff, 20,000 parents
- Purchase and repair hardware
 - 4000 computers/devices
 - 100 servers
 - 1000's of network nodes



Technology Planning Cycle



- Information Technology Infrastructure Library
 - Best practices in IT
 - Service operation mode
 - Time to revisit Service Strategy
 - Technology Planning Review



Current Technology Plan



- Infrastructure Seven to ten+ year cycle
 - Servers
 - Network
 - Phones and other network enabled devices
- Computer Sustainability Plan (CSP)
 - Replacement of Staff computers every 5 years
 - Different groups each year Elementary teachers next
- Student Devices
 - School and PAC funded

Current Technology Plan – Report Card



- Infrastructure Seven to ten+ year cycle
 - Servers ✓
 - Network
 - Phones and other network enabled devices ✓
- Computer Sustainability Plan (CSP) ✓
 - Replacement of Staff computers ✓
- Student Devices

							Students
Student Devices				Student	Students	Student	per
		School	Enrollment				Devices >7
			345		per Device	101	Devices >7
		Boundary Elementary NVan Lynn Valley Elementary	365			34	
		Upper Lynn Elementary	474			30	
Research shows 1 device to 4 students is average		Ross Road Elementary NVan	532	114		44	
		Norgate Elementary NVan	134			37	
		Westview Elementary NVan	241	156		24	
		Carisbrooke Elementary	336			24	
		Queen Mary Elementary	406			0	
1 to 4 or less4 to 66 or more	= Green	Capilano Elementary NVan	400	119		24	
		Braemar Elementary NVan	435			30	
	= Yellow = Red	Larson Elementary NVan	467	77		24	
		Montroyal Elementary NVan	299			0	
		Canyon Heights Elementary	354			15	
		Highlands Elementary NVan	426			39	
		Cleveland Elementary NVan	483			19	_
		Eastview Elementary NVan	271	60		0	
 7 years or older – not supported Both Apple and Dell 		Queensbury Elementary	295			0	
		Brooksbank Elementary	408			0	
		Ridgeway Elementary NVan	567	150		74	
		Sutherland Secondary NVan	882	258		53	
		Lynnmour Elementary NVan	192			30	
		Seymour Heights	262			34	_
		Blueridge Elementary NVan	316			30	
		Cove Cliff Elementary NVan	328			0	
		Sherwood Park Elementary	426			16	
		Dorothy Lynas Elementary	553	188		45	

Technology Plan Review



- Elementary Focus Their turn in the cycle
 - Process Stakeholder Engagement
 - School visits Interviews with tech committees and teachers
 - Elementary Principals Focus Group 7 schools- input
 - ICT Advisory Committee input
 - Visits to other districts
 - Engagement with other district across province and country through social media

Stakeholder Engagement- Key Findings



- Lack of network connectivity
- Not enough student devices
- Some schools have only iPads
- Inconsistent levels of technology between schools
- One size fits all approach to teacher computers
- What technology foundational skills needed for K-7?

Other Findings



- Libraries
 - Used to be technology hubs, what is needed now?
- Learning Assistance
 - What are the core needs for Learning Assistance Classrooms?
 - What is needed in every classroom?
- Too much screen time for students?
 - A concern raised by parents
 - What is a recommended amount of time for delivery of foundation skills?

Technology Plan Review



- We have questions
 - What technology should be in a classroom and school?
 - What is needed to deliver the curriculum requirements?
 - What is needed to enhance student learning?
 - What is needed to support learning adaptations?
 - Still work to be done before we know what we need
 - We will need broader stakeholder engagement

Technology Plan Review - Infrastructure nysc



- What infrastructure is needed
 - To support learning and our operations?
 - To develop the 21st century classroom
- Engagement with ICT staff, vendors & other districts
 - Plan the complete cycle as we know it now 7 to 10 years
 - Focus on immediate needs
 - Lack of network connectivity is a key finding

Technology Plan - Infrastructure



- Infrastructure Review and replace as needed
 - Servers downsize as we move to cloud based services
 - Staff Computers reviewing who is due for refresh
 - Phones and other network enabled devices
 - Plan for more, Internet of Things (IoT) is here
 - Network infrastructure to support wired and wireless access
 - This is a known immediate need
 - Ties in with the goals of the Ten Year Plan

Technology Plan Review – Teacher



- What does a teacher need to deliver the curriculum?
 - Computer
 - What is the teacher using the device for?
 - Different device depending on use?
 - Projector should this be a classroom basic device?
 - Way to project from devices
 - Software Document Camera both?
 - -Sound what is needed?

Technology Plan Review - Student



- What do students need in the classroom?
- Classroom devices what is needed?
 - For adaptive needs and research
 - In class all the time or sign out?
- What is needed to deliver technology foundations?
 - i.e. What is needed, time and devices, to deliver what is in the curriculum?
- What is necessary for learners needing adaptations?
- What is needed for enhanced learning?

Next Steps



- Work to define the curriculum foundations for technology
 - Continue stakeholder engagement
 - Create Foundations guide
 - Define basic technology needs, computers, iPads, projectors etc
 - Define what technology is needed to enhance learning
 - Define what technology is needed to provide adaptions
- Pilot Teacher technology options based on stakeholder feedback
- Improve wireless connectivity and infrastructure

Finally: The Last Slide (almost)



- There is a clear need for change
 - We should always review when a service is operational best practice
 - Stakeholder engagement is key
 - Feedback to date, has indicated there are more questions
 - Answers are better coming from stakeholders
- We need to use our time and budget well
 - Wireless infrastructure a known pain point fix it
 - Regular operational needs and maintenance
 - Continue to find efficiencies in existing hardware and software
- Budaet
 - We will still need to fit all this into the budget box, and ensure key priorities are met across the district

