

NORTH DAKOTA
LEGISLATIVE COUNCIL



North Dakota[®]

LEGISLATIVE COUNCIL

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Presentation by:

Kyle W. Forster
Information Technology Manager

Computer Replacement Workgroup

Wednesday, February 24, 2016
Harvest Room, State Capitol
Bismarck, North Dakota

AGENDA

- | | |
|------------|--|
| 10:00 a.m. | Call to order
Roll call |
| 10:05 a.m. | Comments by the chairman |
| 10:15 a.m. | Presentation by the Legislative Council information technology staff regarding laptops and tablets |
| 11:15 a.m. | Break |
| 11:30 a.m. | Continue presentation by the Legislative Council information technology staff regarding laptops and tablets |
| 12:30 p.m. | Luncheon recess |
| 1:00 p.m. | Hands-on testing of laptops |
| 1:30 p.m. | Presentation by the Legislative Council information technology staff regarding computer replacement budget and computer replacement quotes |
| 1:50 p.m. | Workgroup discussion and staff directives |
| 3:00 p.m. | Adjourn |

Laptops & Tablets

- Current Equipment:
 - Laptop
 - HP 8760w
 - Screen Size: 17.3 inch
 - Weight: 8.3 lbs.
 - Screen Resolution: 1920 x 1080
 - Tablet
 - iPad (3rd Generation) 32 GB Verizon
- Requirements
- Utilization

Laptop – Class

- Consumer vs. Business - Why purchase business class computers:
 - ✓ Durability and Reliability
 - ✓ Reliability Testing
 - ✓ Better Warranties
 - ✓ Accidental Damage Protection
 - ✓ Support Options
 - ✓ Built for Business Use

Laptops - Self-encrypting Drives

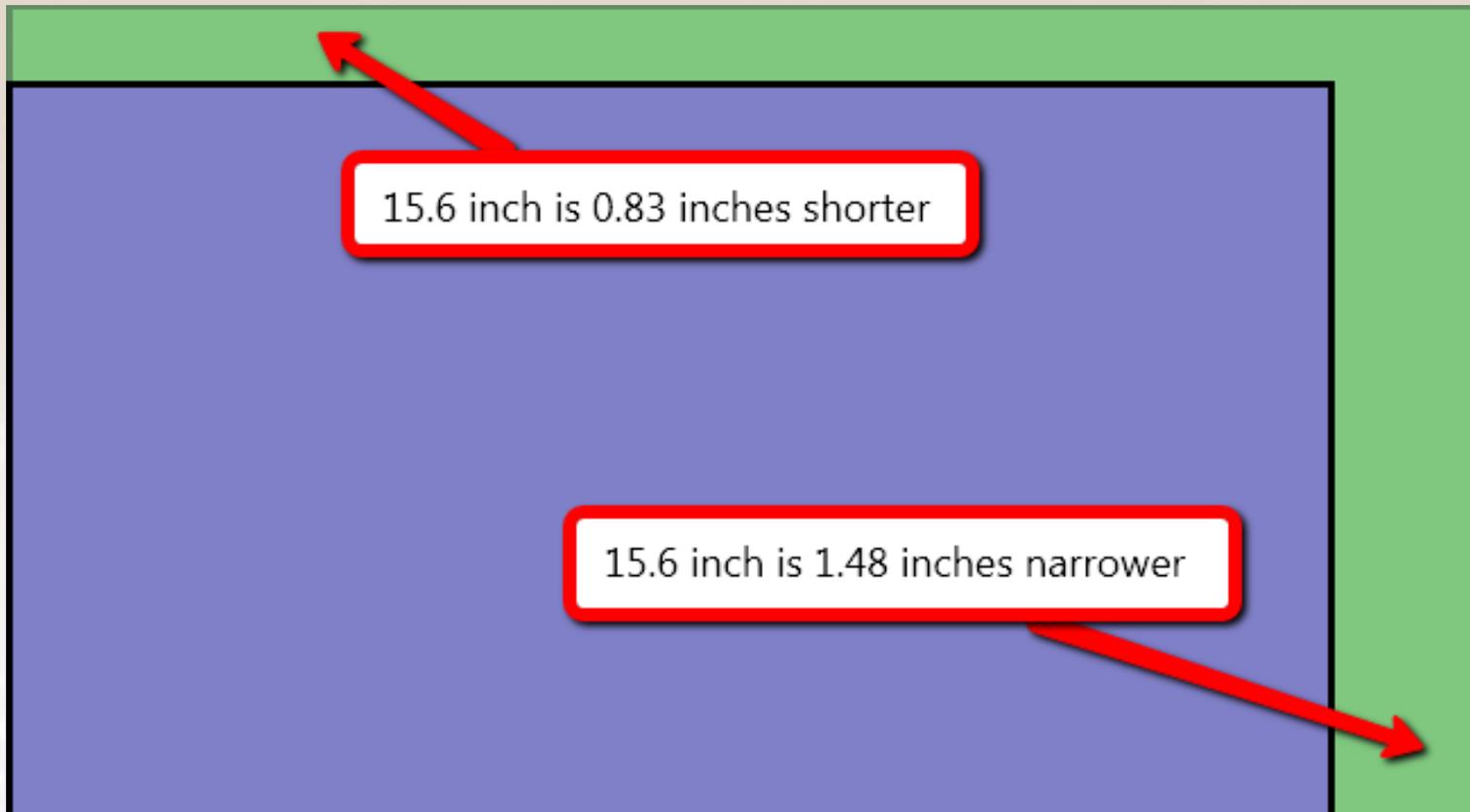
- ✓ Hardware encryption
- ✓ All files on the drive are encrypted
- ✓ If lost or stolen, information on the drive is not accessible
- ✓ Self-Encrypted Drives (SEDs) are managed by Legislative Council IT staff
- ✓ Password recovery

Laptops - Comparison

- Comparison of specific attributes:
 - Screen Size
 - Weight
- Common Features:
 - Screen Resolution (1920 x 1080 – Full HD)
 - Solid State Drive (Self-Encrypted)
 - Long battery life
 - Backlit Keyboard
 - Touchpad with buttons
 - Ethernet port (wired network in chambers for LAWS)
 - Supports Windows 10 Pro

Laptops – Screen Size Comparison

- Current 17.3 inch screen to 15.6 inch screen:



Laptops – Size & Weight Comparison

HP EliteBook 8760w (current legislator laptop)

Screen Size: 17.3 inch Weight: 8.3 lbs.

(1) HP EliteBook 840

Screen Size: 14.0 inch Weight: 3.2 lbs.

(2) HP EliteBook 850

Screen Size: 15.6 inch Weight: 4.1 lbs

(3) HP ZBook 15u

Screen Size: 15.6 inch Weight: 4.1 lbs

(4) HP ZBook 17

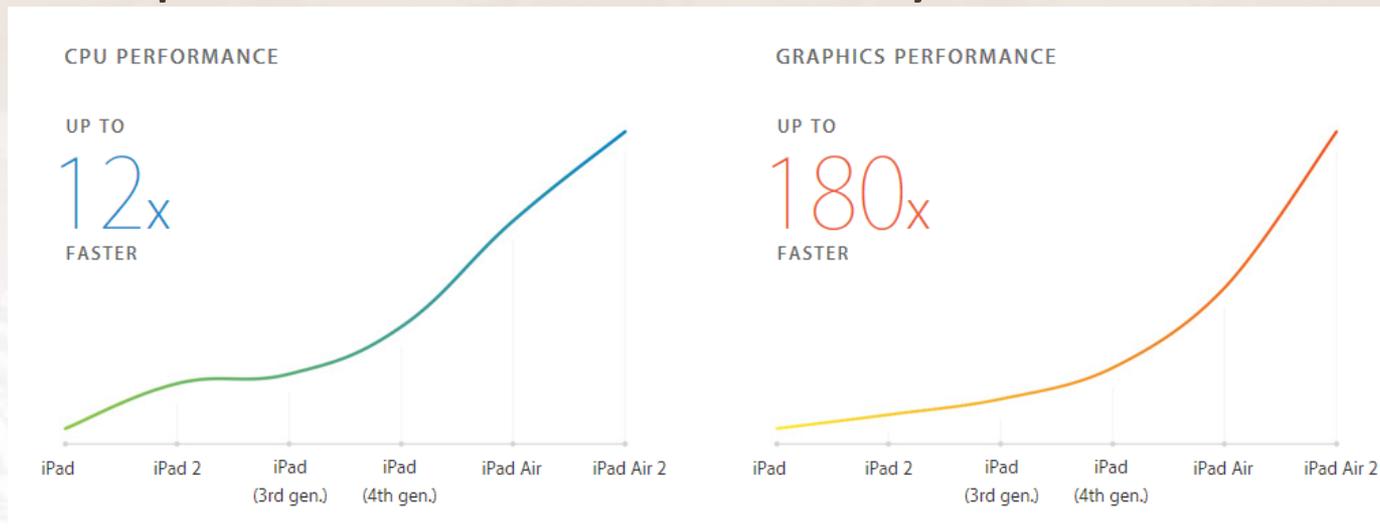
Screen Size: 17.3 inch Weight: 7.0 lbs.

Tablets – Why Tablets

- Key Features:
 - Form factor
 - E-reader
 - Portable and very easy to use – multi-touch
 - Instant on
- Use Cases:
 - Mobile access to email, LAWS, ND Legislative Daily, Legislative Branch public web site
 - Mobile access to legislative information during legislative session standing committee meetings and interim committee meetings
 - Mobile access to legislative information from home wireless network or public wireless networks
 - Capture meeting notes or annotate documents

Tablets – Devices

- Compare current iPad (3rd Gen.) to iPad Air 2
 - Faster, lighter, narrower, and thinner
 - Weighs 7.68 oz. less (1.46 lbs. vs. 0.98 lbs.)
 - iPad performance increases by model:



Hands-on Testing

- Hands-on testing of laptops and iPad

Computer Replacement Budget

Laptop, iPad, and Software Budget			
	Quantity	Amount	Total
Laptops	231	\$ 1,800	\$ 415,800
Microsoft Office Upgrade	227	\$ 250	\$ 56,750
Laptop Total			\$ 472,550
iPads (with case)	150	\$ 870	\$ 130,500
Total Budget			\$ 603,050

- Quantities:
 - Laptops
 - Legislators (141)
 - Assembly staff, clerks, interns, kiosk, steno/telephone, and spares (90)
 - iPads
 - Legislators (141)
 - Spares (9)

Computer Replacement Quotes

Laptop Quotes				
	1	2	3	4
	HP EliteBook 840	HP EliteBook 850	HP ZBook 15u	HP ZBook 17
Size (inches)	14	15.6	15.6	17.3
Weight (lbs.)	3.2	4.1	4.1	7.0
Screen Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Cost	\$ 1,187	\$ 1,193	\$ 1,297	\$ 1,511

Additional Quotes/Estimates	
EliteBook Docking Station	\$109
ZBook Docking Station	\$152
Microsoft Office Standard 2016	\$239
iPad Case	\$ 42

Tablet Prices	
Apple iPad Air 2	Retail Cost
Wi-Fi + Verizon 64 GB	\$729
Wi-Fi + Verizon 128 GB	\$829

Computer Replacement Options

		OPTIONS			
		1	2	3	4
		HP EliteBook 840	HP EliteBook 850	HP ZBook 15u	HP ZBook 17
	Size (inches)	14	15.6	15.6	17.3
	Weight (lbs.)	3.2	4.1	4.1	7.0
	Screen Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
	Cost	\$ 1,187	\$ 1,193	\$ 1,297	\$ 1,511
Legislator	Laptop	167,330	168,176	182,893	213,009
	Tablet - iPad Air 3 128 GB WiFi + Cellular (Verizon)	124,350	124,350	124,350	124,350
	iPad Case	6,300	6,300	6,300	6,300
Assembly Staff	Laptop	106,807	107,347	116,740	135,963
	Docking Stations (38)	4,142	4,142	4,142	5,776
All	Microsoft Office 2016	54,253	54,253	54,253	54,253
TOTAL COST		\$ 463,182	\$ 464,568	\$ 488,677	\$ 539,651
Budgeted Amount		\$ 603,050	\$ 603,050	\$ 603,050	\$ 603,050
(Over)/Under Budget		\$ 139,868	\$ 138,482	\$ 114,373	\$ 63,399
		23.2%	23.0%	19.0%	10.5%