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# Artificial Intelligence in Education

Standing Committee Meeting
May 7, 2024

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# Educational Support for Students and Educators

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# Cyber Security
RISK AND IMPACT

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nvsd

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# Ransomware

## What is it?

- Typically, threat actors encrypt the organization's data and demand a ransom for the decryption key.
- Today, most are "double extortion" attacks that also threaten to leak sensitive information publicly if the ransom is not paid.

Source: "National Cyber Threat Assessment 2023-2024" (Canadian Centre for Cyber Security)

# Malware

## Who's the target?

- Malware encounters in the last 30 days
  Live dashboard: Cyberthreats, viruses, and malware - Microsoft Security Intelligence

# Data Breaches

## Cost of remediation

- Average cost in Canada: US$5.13 million
- Mean time to identify: 204 days
- Mean time to contain: 73 days

Source: "Cost of a Data Breach Report 2023" (IBM Security)

# Data Breaches

## Examples in the Canadian public sector this year

- February 13, 2024 – School District No. 67 (Okanagan Skaha)
  School District 67 says it may have been breached by a cyberattack - Okanagan | Globalnews.ca
- February 25, 2024 – City of Hamilton
  Hamilton hit by ransomware attack, city says for 1st time since incident paralyzes services | CBC News
- March 24, 2024 – University of Winnipeg
  Personal information of thousands, including SINs and bank info, likely exposed in cyberattack: U of Winnipeg | CBC News

# Data Breaches

**What are things like before and after Okanagan College's incident?**

- Remediation work isn't easy
- Distrust of the systems
- Lost confidence in leadership

# Lowering the Risk

**Actions that reduce the chance of a data breach**

- Mitigate security vulnerabilities
- Replace or remove obsolete systems and equipment
- Enforce Multi-factor Authentication (MFA)
- Educate staff on phishing and other threats

# Lowering the Impact

## Actions that reduce the cost of a data breach

- Data governance
- Offline backups
- Incident response plans
- Monitoring

# Questions

# Ethics: Case Studies