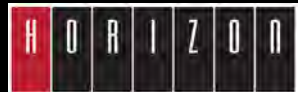# SSBA AGM 2022

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THE HORIZON STORY

- Founded in 1995, our success and growth are based upon our people and our long-term client partnerships.

- We are a 100% Saskatchewan owned and operated corporation.

- We are a knowledge-based company with the goal of providing Business and Technical Expertise across Western Canada.

- We have always viewed workplace diversity as an asset and has enacted an Employment Equity Program to reflect our multi-cultural community.

- We have gained national recognition through maintaining corporate values of Teamwork, Respect, Integrity, Innovation and Accountability.

HORIZON

CYBER INCIDENT - DEFINED

THE UNANTICIPATED EFFECTS OF A CYBER INCIDENT

- Impact on Students, Teachers and Administrators

- Financial Costs

- Public Relations

- Case Studies

- Questions you should be asking

IMPACT ON STUDENTS, TEACHERS AND ADMINISTRATORS

- Impact on student learning
  - Online tools used for remote learning are unavailable, causing disruption to students and their learning
  - Student work can be lost or encrypted making assessment difficult
  - Loss of student work can also cause undue stress on learners needing to "start over"
  - Educators are unable to utilize the tools they've planned for forcing them to pivot constantly – including printers
- Impact on assessment
  - Tools to grade and record student work are unavailable
  - Previously recorded assessment data may be lost or corrupted
  - Student progress reports may be delayed or lost

IMPACT ON STUDENTS, TEACHERS AND ADMINISTRATORS

- Impact on student health and wellness
  - Sharing of sensitive health and wellness information (including data accessible to clinical and resource staff)
  - Disclosure of student personal information (name, address, contact information, emergency contacts, assessment details, birth records, images or video of students)

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IMPACT ON STUDENTS, TEACHERS AND ADMINISTRATORS

- Loss of Personal Data
  - Loss or encryption of private data such as birth dates, social insurance numbers, banking information, learning assessments, clinician files and medical information can cause harm
  - Camera systems can be compromised leading to leaked interior images of schools and students

- Communication Disruption
  - Inability to communicate effectively staff members, parents and students when communication systems are offline
  - Inaccessible phone systems, public address (PA) systems

- Parental Impact
  - Temporary school closures can cause undue hardship on families that must acquire unexpected child care for the duration of the closure.

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IMPACT ON STUDENTS, TEACHERS AND ADMINISTRATORS

- Potential School Closures until services are restored
  - Students may fall behind in their studies
  - Staff may be unable to work due to inaccessible systems
  - Access to school buildings may be difficult due to compromised conditional (card) access systems

FINANCIAL IMPACT OF CYBER INCIDENTS

- Demand and payment of ransom places unnecessary demands on budgets

- Unexpected costs associated with cyber incident

    - Clean-up and mitigation costs

    - Compromised phone systems can cause exorbitant long distance bills

    - Increase in Cyber insurance fees/inability to acquire cyber insurance

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PUBLIC RELATIONS

- Cyber attacks cause damage to an organization's reputation

- Poor responsiveness and communication can hurt relations with students, parents and staff

- Concealing the truth about or announcing a cybersecurity problem too late will cause trust issues

CASE STUDIES

- University of Waterloo – July 10, 2022

  - Payroll data leaked
  - A restricted drive was accessed that contained payroll and benefits information of all current and past employees dating back to 1970. This includes names, birth dates, banking information and social insurance numbers.
  - The payment history for employees dating back to 2012 was also accessed, along with a small database of student information.
  - Late Paychecks
  - Some student data leaked

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CASE STUDIES

- Canadian K-12 Institution - 2022

  - Email Systems down
  - Shutdown all Internet based services
  - Potentially tax reports, health information, and social security details leaked
  - Late Paychecks
  - Ransomware

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QUESTIONS YOU SHOULD BE ASKING

- Ask your school administrators and superintendents about their IT Group's policies on
  - What are your organizations security policies?
  - What kind of Access Controls are in place?
  - Is there patch management solutions in place and scheduled to update systems regularly?
  - Do we backup our data, and if so how and when does it occur? How frequently are backups tested? How are they protected?
  - How is our data safeguarded from ransomware?
  - What is the organizations Incident Response Plan?
  - How is awareness and training applied?
  - What safeguards are in place to isolate key systems from unauthorized access?

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WHAT CAN YOU DO?

"An ounce of prevention is worth a pound of cure"

- Work within your organizations and with your IT partners to ensure you have proper Disaster Recovery (DR) and Business Continuity (BC) plans in place and TEST THEM REGULARLY

- Invest in security solutions to help mitigate against breach and cyber-incidents
  - Endpoint Detection and Response (EDR) solutions
  - Network segmentation and inspection in addition to content filtering
  - Conduct regular network penetration testing and phishing simulation campaigns

- Conduct cyber security awareness campaigns for both staff AND students

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THANK YOU!

- Questions?

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