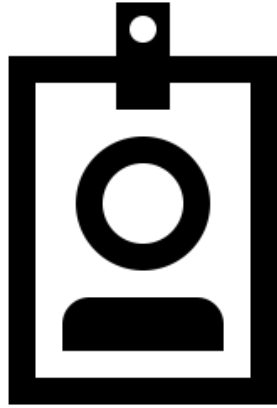# MN K12 Cyber Security

Anthony Padrnos; Ed.S.
Executive Director of Technology
Osseo Area Schools
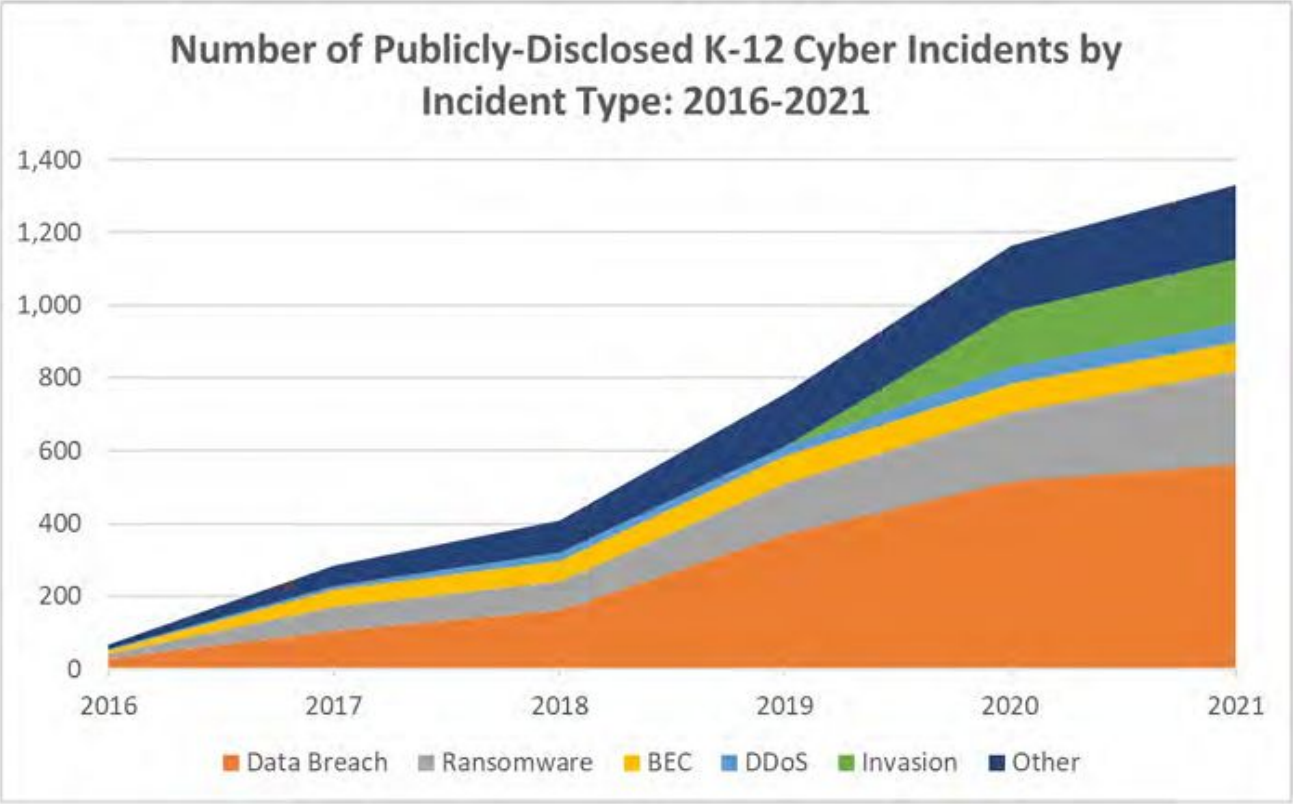
870,019
Students

126,136
Employees
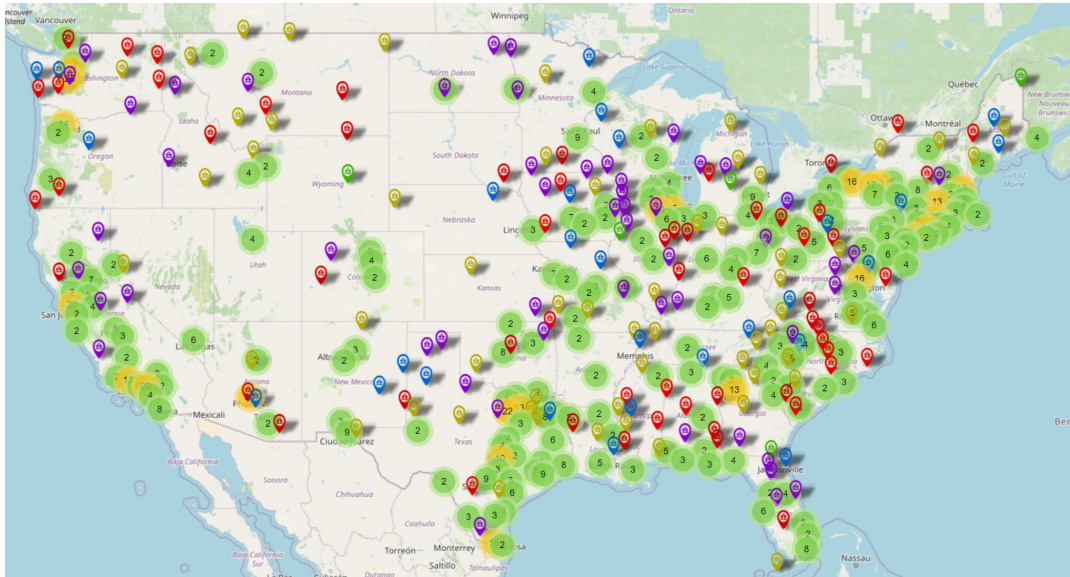
331
School Districts

Number of Publicly-Disclosed K-12 Cyber Incidents by Incident Type: 2016-2021

Legend: Data Breach, Ransomware, BEC, DDoS, Invasion, Other

Source: State of K12 Cyber Security: Year in Review-2022 report from K12 Six.

Estimated 10 to 20 times more incidents go undisclosed every year.

K-12 Cyber Incidents in the News

- 1,619 **public** incidents in public schools since January 2016
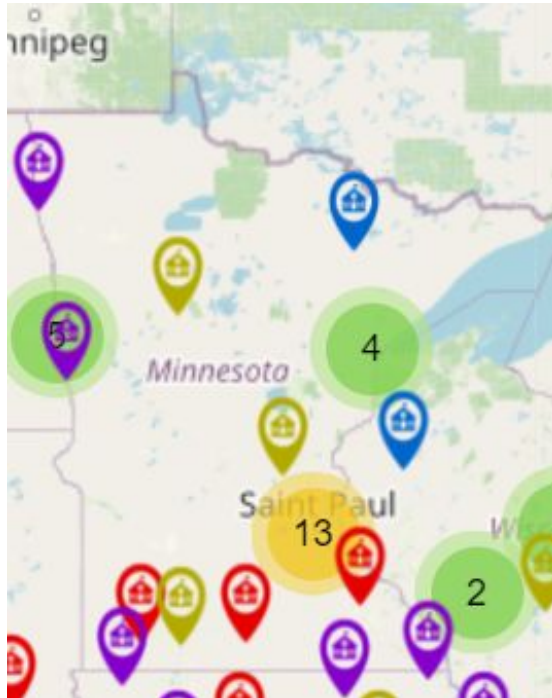- 32 in Minnesota

🔴 Other 🔵 Phishing 🟡 Ransomware 🟣 Unauthorize Access

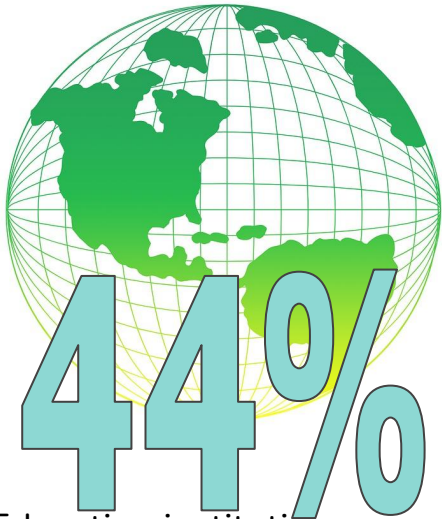Source: K-12 Cybersecurity Resource Center

Minnesota K-12 Cyber Incidents

This is not a big district versus small district or metro versus rural issue

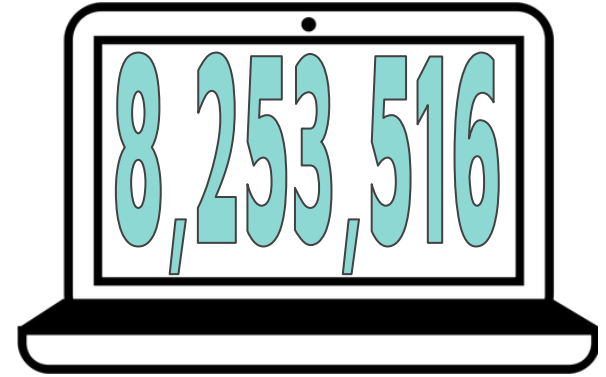These are attackers looking for any opportunity

The State of K-12 Cybersecurity

44%

Education institutions were targeted by ransomware attacks in 2020 (Sophos)

$2.73 million

Cost of downtime, repairs, and lost opportunities in 2020 ransomware attack in education (Sophos)

8,253,516

Number of devices in education that experienced malware over 30 days in December of 2021 (Microsoft Security Intelligence)

West Metro Cyber Collaboration

K-12 Organizations (Good IT=Good Security)
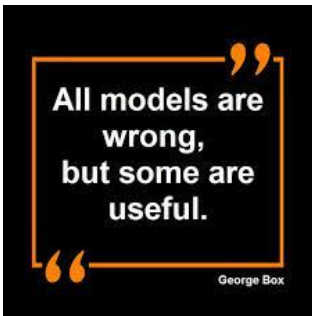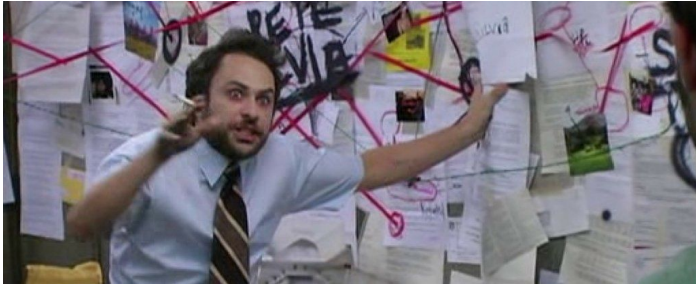
- **Challenges:**
  - Lack of resources
  - Insecure vendors due to lack of pressure
  - Demand for high availability and "unhindered" learning
  - Misconception there isn't valuable data
- **Strengths:**
  - Mature policy, procedures, Standard Operating Procedures
  - Service Desk and Field Services are customer centric
  - Pride in managing & getting the most technology
  - Culture of learning and education
  - Shared mission and vision that provides purpose

Stronger Together

- Individual and shared access to a trusted Cybersecurity Advisor
- Monthly group meeting & a one day Summer Workshop
- Shared resources such as procedures, guides, & training material
- Collectively improve and exchange:
    - Cybersecurity Program Progress
    - Risk management
    - Policies & Procedures
    - Configs
    - Playbooks
    - Contract templates
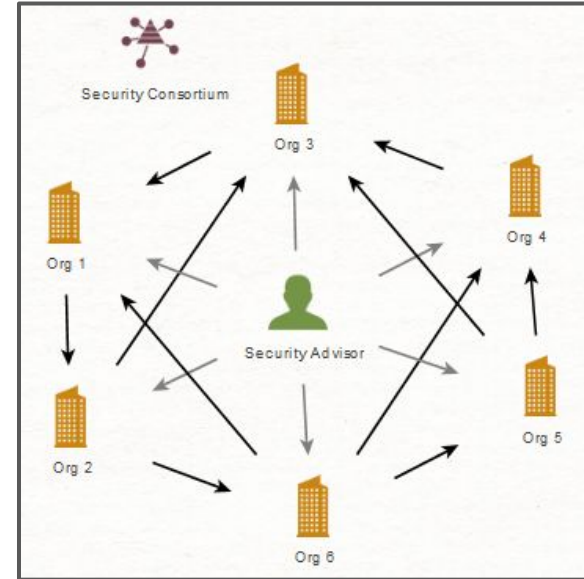
Minnesota K12 Cyber Security Opportunities

K12 State Tech Leadership

Resources

Communication

K12 State Tech Leadership

- Cyber Security Support and Resources
- Student Data Privacy Law Support and Resources
- Navigating and coordinating Federal and state funding resources (ie. State cyber grants, federal cyber grants, e-rate funding, etc.)
- Support and Resources for the National Education Technology Plan set to release in January

Resources

- Cyber frameworks, response plan templates, playbook templates, cyber assessments, etc.
- Human resource support
- Financial resources dedicated for technology/ cyber security as cost continues to rise and is ongoing

Communication

- Information sharing around cyber events between key school district leaders
- Timely threat information in order to take action
- Pro-active information to take action and improve school districts security posture.