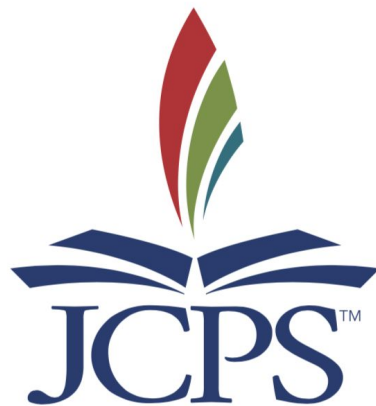# Jefferson County Public Schools

Digital Privacy, Safety, and Security

JEFFERSON COUNTY PUBLIC SCHOOLS

JCPS™ IT³

Information • Integration • Innovation

How does JCPS IT3 Identify, Mitigate, and Manage Technology Risks?

Increased Risk

Risk Management Framework

JCPS Continuous Improvement Efforts

Systems and Awareness

Achieve balance of digital safety, privacy, and security for JCPS students and staff while supporting instruction and daily operations.
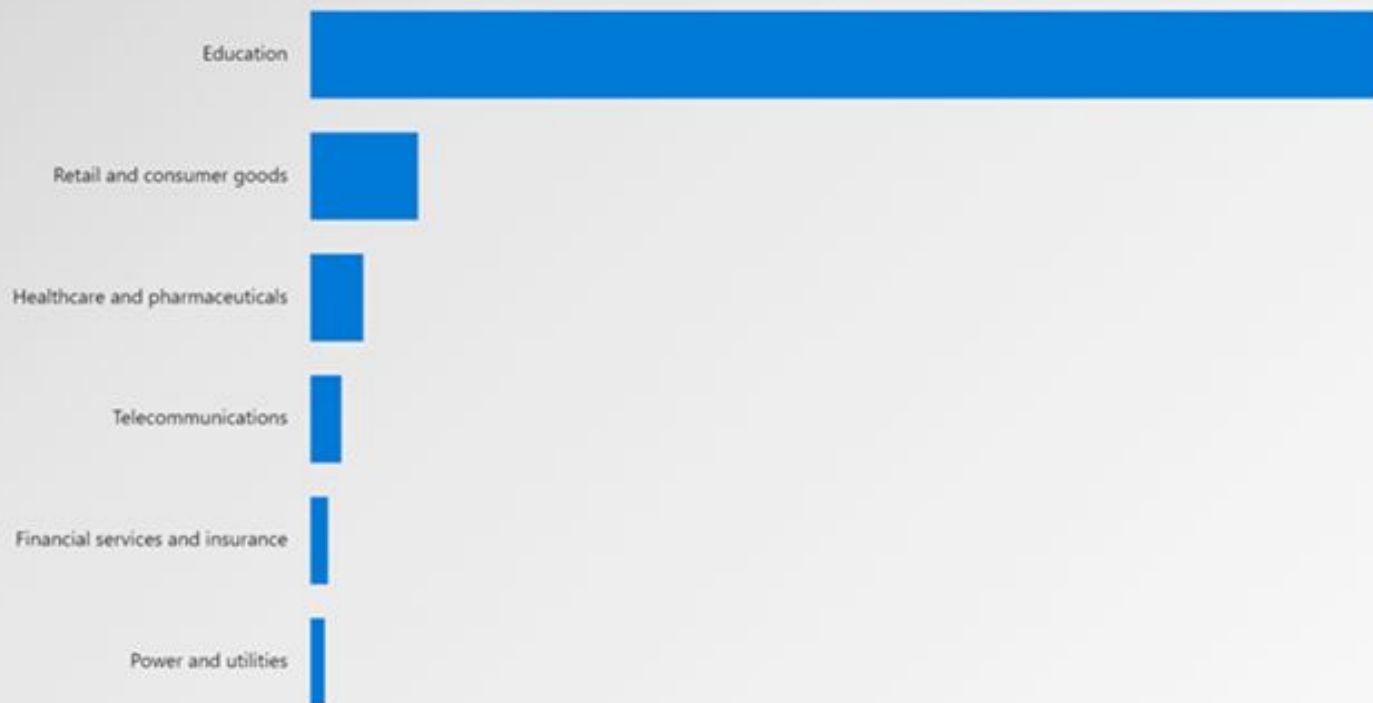
Increased Cybersecurity Risk

- Federal agencies predicted an 86% increase in cyber-attacks against schools this year and research shows that Education is BY FAR the most aggressively attacked segment for multiple reasons

- Phishing is at an all-time high and are becoming more sophisticated and better at tricking people into sharing PII, passwords, clicking on ransomware, buying gift cards, and so on

- Ransomware increased 13% - more than in the last 5 years combined

- 82% of breaches are due to people giving up/losing/being tricked out of passwords

Most affected industries

Select an industry ⌄

Reported enterprise malware encounters in the last 30 days

- Education
- Retail and consumer goods
- Healthcare and pharmaceuticals
- Telecommunications
- Financial services and insurance
- Power and utilities

Total devices with encounters: 8,327,343

IT Risk Management

- National Institute Of Standards and Technology Cybersecurity Framework

- JCPS Information Technology Policies & Procedures

- Digital Resource Review Task Force

- IT3 Risk Management Task Force
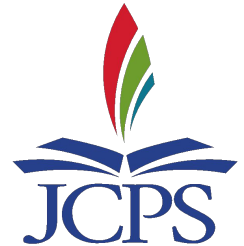
IT Risk Management
Continuous Improvement Efforts

Technical Controls

- Microsoft A5
- Google Workspace Enterprise Solution
- Data Loss Prevention Tools
- JCPS Critical Systems - moving to cloud based solutions
- Transitioning from home grown custom developed software solutions to out of the box software programs
- Network Infrastructure Upgrade
- Security Baseline - Self Service Password Reset, Single Sign On, Multi-factor authentication, and Passphrase
- Single Student and staff identity management solution
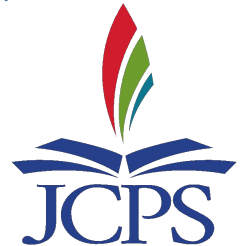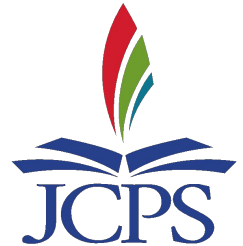
IT Risk Management
Continuous Improvement Efforts

Human Behavior
- Digital Privacy Awareness Training
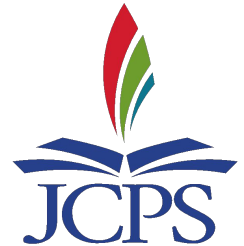- Phishing Campaign
- Digital Citizenship Curriculum

Organizational Coherence
- IT reorganization - repurposed IT positions to focus on cybersecurity roles and responsibilities
- Manager of Cybersecurity and two cybersecurity administrators

JCPS

IT3 Risk Management
Systems of Awareness

- IT / Internal Audit Risk Assessment
  - Targeted vulnerability Assessment
  - Microsoft and Google Domain Assessment

- Network and application analytics, security awareness
  - KnowBe4
  - Network analytics
  - BrightBytes - EdTech Impact
  - Threat Intelligence Feeds

Closing Remarks / Questions