

Cybersecurity Risk Management

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Michigan Association of Superintendents & Administrators

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AGENDA

Why is Cybersecurity Difficult?

The Three Rs of Cybersecurity Risk Management

Step 1: Determine Your Risk Level

Step 2: Inventory Application Processes for Risk Alignment

Step 3: Inject Cybersecurity Information into Operational Processes?

What is The End Goal?

Questions



WHO WE ARE

COLLECTIVE

Malicious actors are working together to find new ways to attack organizations. To combat these threats, we partner with our clients, sharing tactical information between entities, to break down silos and make everyone stronger.

EVIDENCE-BASED

We provide clients with proven results, using quantifiable measurement that demonstrates evidence-based proof of your cybersecurity progress, helping you advance your security posture.

CONTINUOUS

With cybercriminals adapting every day, cybersecurity programs need to continuously advance in order to combat threats. We focus on continuous improvement in everything we do to make our customers stronger.

CUSTOMIZED

We know every organization is unique, which is why our team works one-on-one with you, to determine the best solutions for your specific needs, taking into account your industry, goals, and organization's technologies and processes.



PARTNERSHIPS

Minnesota Hospital Association Endorsed Business Partner





Boards of Cooperative Educational Services



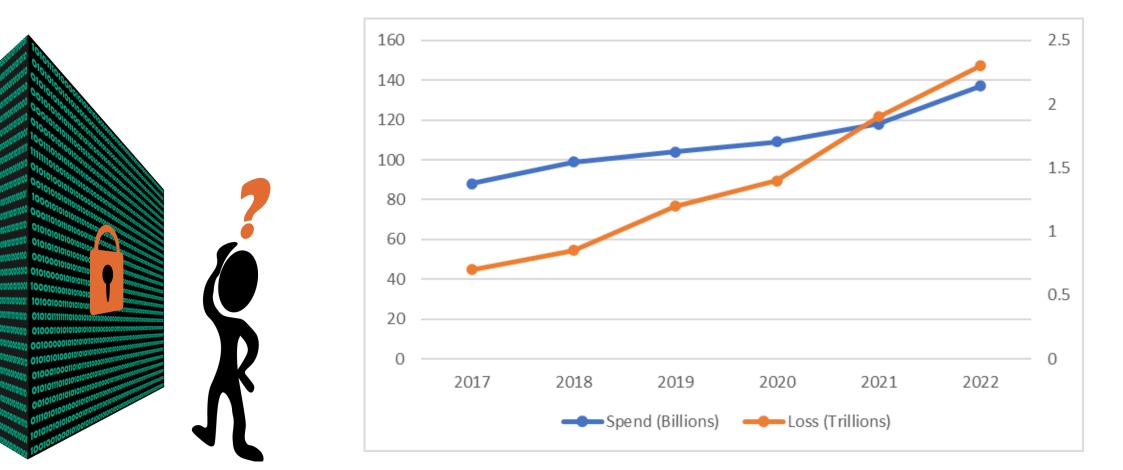
Inspired by education. Empowered by technology.



MICHIGAN ECONOMIC DEVELOPMENT CORPORATION



Why is Cybersecurity Difficult?



Source: Juniper Research



Complicated vs Complex Systems

Complicated

- Space Launch 5 computer systems in closed environment
- Structured data

Complex

- Interconnected applications
- Open environment
- Dynamic data
- 3'rd party integration / Semantic integration
- Globalization
- Hosted regionally, on-prem, and Cloud



Organization Considerations





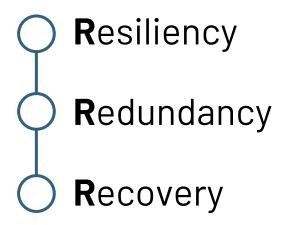


MITIGATING RISK POLICY & PROCEDURE COMPLIANCE INSURANCE PREMIUMS

What is the business problem you are attempting to solve?

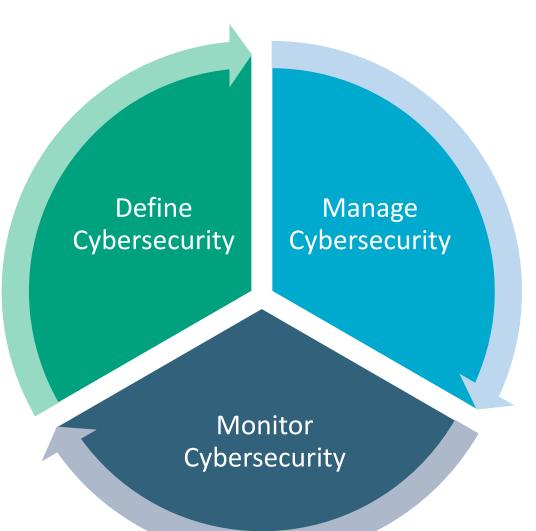


The Three R's Of Cybersecurity Risk Management



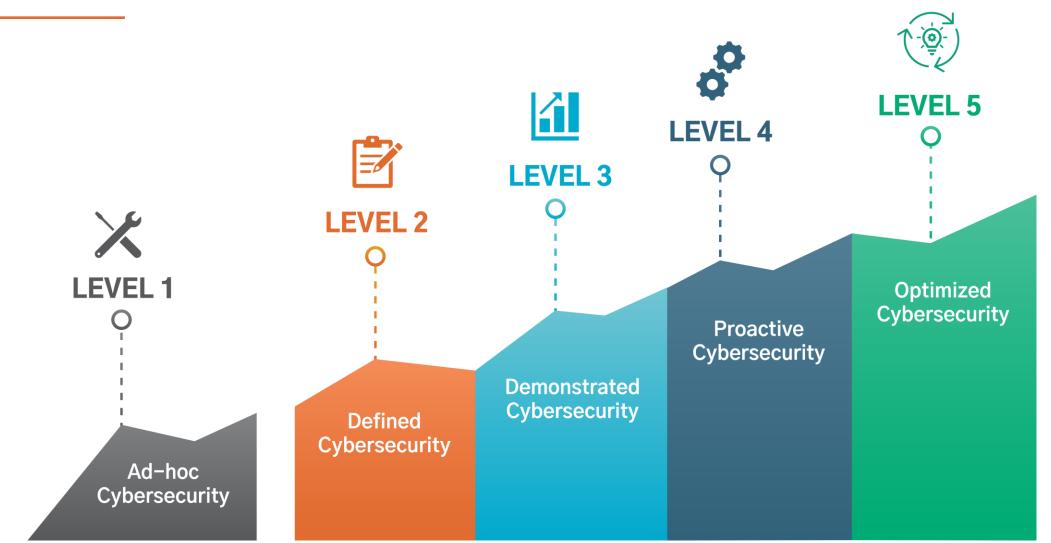


CYBERSECURITY LIFECYCLE



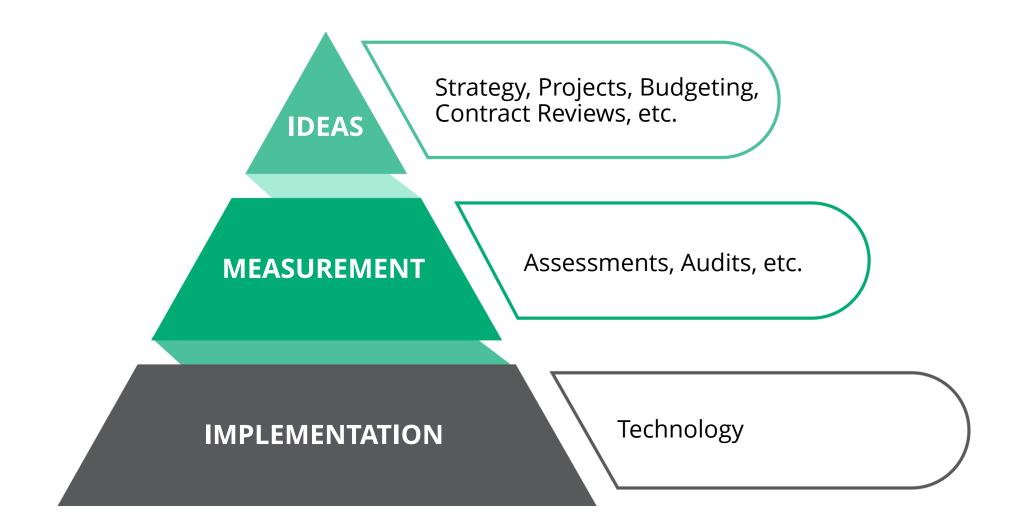


PROGRESSION TO OPTIMIZATION





Breaking Down Operational Silos

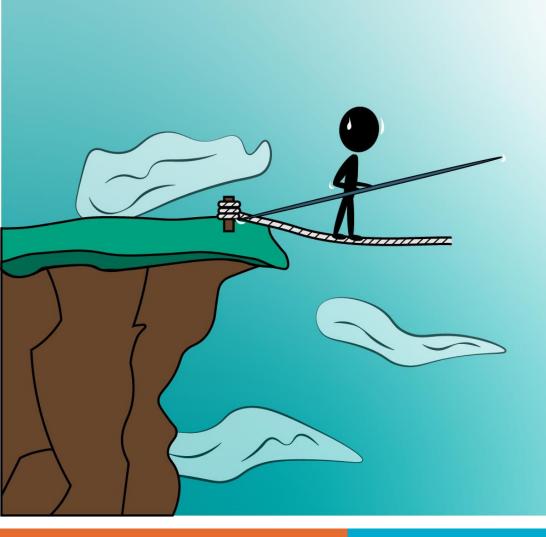




Step 1: Determine your risk tolerance

25+ YEARS OF CYBERSECURITY INNOVATION

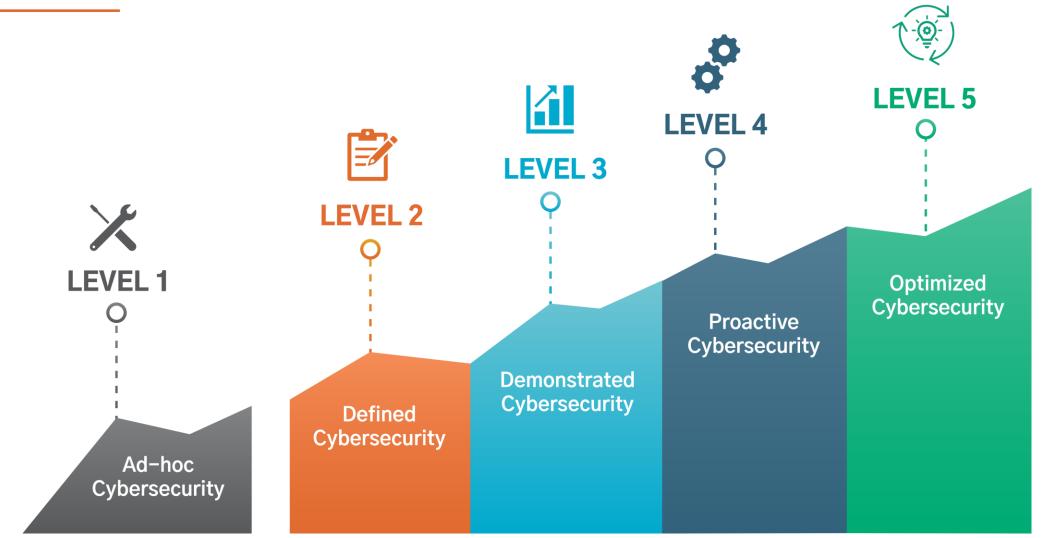
Risk Tolerance



- Variant system and user behavior
- Pure Risk vs. Speculative Risk
- "More things can happen than will happen" -Dimson
- Probability of threat vs. probability of significant loss



Cybersecurity Risk is Reduced by Maturity





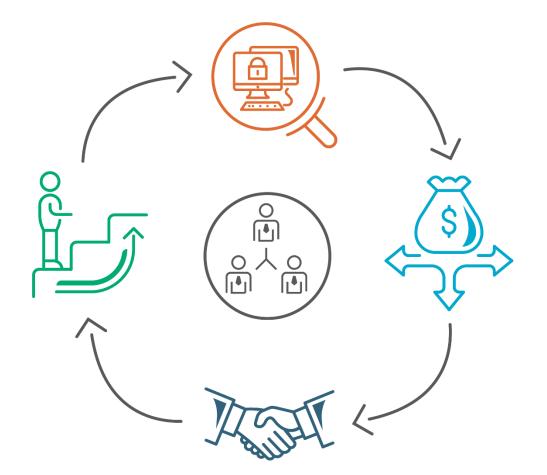
Step 2: Inventory operational processes for risk alignment

25+ YEARS OF CYBERSECURITY INNOVATION



Building Momentum & Reducing Friction

- Evaluate and prioritize cybersecurity needs
- 2. Where should the next dollar of effort be spent
- 3. Align cybersecurity with operational processes
- 4. Each unit of work builds up to next unit work



Who Are Your Operational Allies?

- Contracting/Purchasing
 - Risk exceptions can be used during negotiating contract renewals
- PMO/IT
 - Incident response, downtime testing, validating documentation, and risk exceptions should be validated during upgrades and maintenance
- Finance
 - Signature Authority for risk exception approval and tracking financial risk commitment
- Business Leaders
 - Cybersecurity remediation may help move their initiatives forward

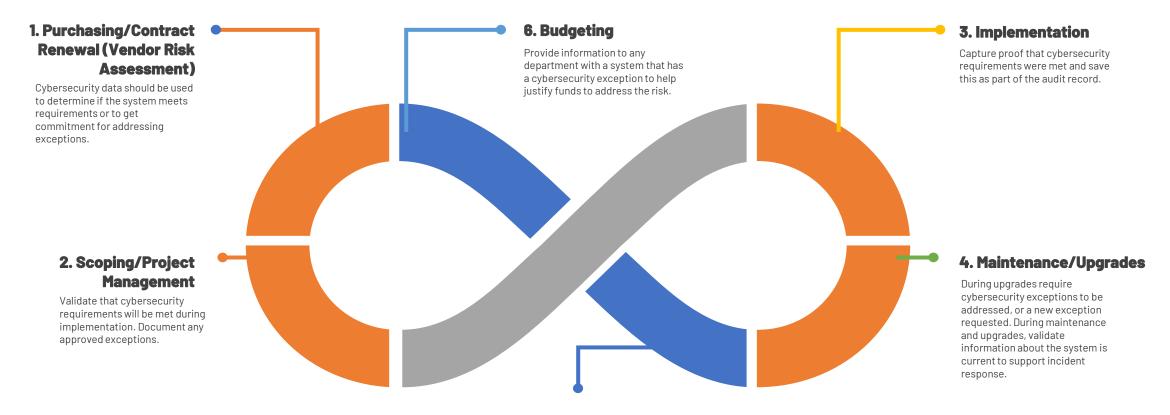


Step 3: Inject cybersecurity information into operational processes

25+ YEARS OF CYBERSECURITY INNOVATION



Cybersecurity Risk Lifecycle



5. Strategic Planning

The major cybersecurity risks should be used to inform strategic requirements.



What Is The End Goal?

A longitudinal audit record that is informed by key metrics

A cross-referenced inventory of requirements

Cybersecurity information influencing and informing operational processes

Cybersecurity risk management must become an ongoing operational process to be effective.



Questions?

25+ YEARS OF CYBERSECURITY INNOVATION