### Business Goals and Objectives

- 1. Strengthen Business Continuity and Disaster Recovery a.Ensure operational resilience through updated BC/DR plans b.Establish robust incident response capabilities
- 2. Achieve Compliance with Regulatory Standards a. Attain and maintain compliance for GDPR, SOC, etc.
- b.Conduct regular audits and compliance assessments 3. Optimize Operational Efficiency
- a.Enhance asset management and internal processes b.Maintain documentation and improve cross-department collaboration
- 4. Enhance Customer Trust and Engagement
- a. Strengthen data protection and cybersecurity posture b. Develop and test customer communication platforms 5. Develop Cybersecurity Awareness and Skillsets
- a. Cultivate a culture of security awareness
- b.Upskill employees to meet evolving cybersecurity challenges 6. Adapt to Emerging Threats
- a. Continuously improve threat detection and vulnerability management processes
- b.Optimize detection systems to address the evolving threat landscape

# Y1: Foundational Development and Initial Implementations

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- Business Alignment: Conduct initial alignment to understand what security needs to know about business processes Compliance & Audit: Appoint DPO/Privacy Manager and start research
- on compliance (GDPR, NIS2, etc.) Program & Change Management: Begin reviews of policies, business continuity plans, and disaster recovery plans

### Program & People Development: Start implementing cybersecurity frameworks (NIST, CIS, etc.)

- Asset Management: Conduct an initial review and documentation of
- asset **Detection**: Select and implement initial monitoring tools Emerging Threats & Vulnerability Management: Establish a threat
- model and landscape

- Partner Relationships: Review 3rd party platforms Customer Relationship: Document communication and collaboration platform requirements
- Public Relations: Develop PR and crisis playbooks

- Awareness & Training: Start developing awareness and training programs tailored to business units
- Compliance & Audit: Prioritize and conduct additional compliance assessments
- Cybersecurity Operations: Establish internal tooling and workflows

### Q3

- Program & People Development: Set metrics baselines and evaluate skills roadmaps
- Detection: Begin optimizing detection strategies based on initial implementations

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- Incident Response: Develop incident response policies, plans, and playbooks; perform tabletop exercises Asset Management: Start ongoing asset management based on initial
- documentation
- Customer Relationships: Implement and test communication and collaboration platform(s)

# Simulation

- Medium-Sized Company
- Security Staffina: One part-time or external security consultant with additional responsibilities distributed across IT staff
- Compliance Goals: Meeting basic regulatory requirements
- Tools: Basic security tools with incremental upgrades as needed

### ligned Cybersecurity KPIs

- 1. Strengthen Business Continuity and Disaster Recovery KPIs a.Completion of BC/DR plan reviews and updates
- b. Time to recover from incidents 2. Achieve Compliance with Regulatory Standards
- a.Percentage of compliance assessments completed on time
- b.Number of non-compliance issues identified and remediated 3. Optimize Operational Efficiency
- a.Number of assets reconciled and documented b.Reduction in operational bottlenecks as identified through
- workflow reviews
- 4. Enhance Customer Trust and Engagement
- a.Deployment and testing of the customer communication platform
- b.Frequency of customer engagements providing cyber insights 5. Develop Cybersecurity Awareness and Skillsets

Y2: Enhancements, Optimizations, and Compliance Reviews .....

Awareness & Training: Roll out initial awareness and training programs

Compliance & Audit: Start the initial audit; review compliance and

Incident Response: Identify and implement IR tools, with tabletop

Detection: Conduct yearly review and adjustments to detection

Emerging Threats & Vulnerability Management: Continue threat

Program & People Development: Emphasize continuous improvement

Asset Management: Conduct yearly asset reconciliation

Compliance & Audit: Conduct compliance assessment

- a.Completion rate of awareness and training programs b. Skills assessments against defined roadmaps
- 6. Adapt to Emerging Threats
- a.Frequency and thoroughness of threat model reviews

# **4 YEAR Cyber Strategy and Roadmap Simulation**

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# usiness Continuity and Disaster Recovery Metrics

- Percentage of BC and DR plans updated and approved by stakeholders
- Number of completed tabletop exercises vs planned exercises
- Recovery Time Objective (RTO) and Recovery Point Objective (RPO) achieved during simulated incidents
- compliance Metrics Number of compliance gaps identified and remediated per audit
- cvcle
- Percentage of audit findings resolved within defined timelines
- Percentage of compliance reviews completed by the deadline

### **Operational Metrics**

- Percentage of assets accurately documented and updated
- Number of cross-functional process improvements implemented Reduction in redundancy across workflows as measured by time
- and cost savings

# Y3: Maturity and Continuous Improvements

Compliance & Audit: Continue compliance reviews and annual audit Cybersecurity Operations: Maintain ongoing resource optimization and documentation updates

- Detection: Optimize detection mechanism, incorporating new tools and methodologies
- Incident Response: Review and/or make adjustments based on prior incident response activities

- Emerging Threats & Vulnerability Management: Perform yearly review and threat management adjustments
- Customer Relationships: Provide insights through monthly and quarterly engagements

Communication Strategy: Focus on regular, ongoing communication management and align strategies with business objectives Public Relations: Conduct a yearly review of PR and crisis playbooks

### **Detailed Breakdown by Category**

management and review threat models

of hiring and skills development

### 1. Personnel

exercises

systems

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- Year 1: Part-time or outsourced cybersecurity lead + IT support allocation for security-related tasks.
- Year 2-4: Incrementally increase personnel costs to account for either hiring a full-time cybersecurity specialist or expanding security responsibilities within the IT team.

### • 2. Tools & Software

- Core Tools: Basic cybersecurity tools such as antivirus, endpoint protection, firewall, SIEM (Security Information and Event Management), and vulnerability scannina tools.
- Year 1: Basic setup for essential tools.
- Years 2-4: Gradual increase for enhanced tools, licensing, and upgrades as requirements grow.

### 3. Compliance & Audits

- Year 1: Initial compliance assessments (e.g., SOC 2 readiness, GDPR alignment), including appointing a Data Protection Officer/Privacy Manager.
- Year 2-4: Increasing investment as compliance requirements mature, including annual SOC 2 audits, FedRAMP assessments, and continuous review costs.

### • 4. Training & Awareness

- Year I: Security awareness training for all employees, covering basics of cybersecurity, phishing, and data handling.
- Years 2-4: Incremental increases for ongoing awareness programs, targeted training (e.g., role-specific), and management training for compliance updates.

### 5. Incident Response (IR)

- Year 1: Develop incident response policies, tabletop exercises, and basic incident handling procedures.
- Years 2-4: Increase budget to implement IR tools, manage incidents, and conduct more frequent and advanced tabletop exercises.

# 6. External Consultina

- Year 1: Initial strategy development, compliance consulting, and threat modeling support from an external cybersecurity consultant.
  Years 2-4: Additional consulting for audits, IR exercises, and continuous threat intelligence. Expect consulting costs to rise as the complexity of tasks increases.

## • 7. Contingency

Allocate approximately 10% for unexpected expenses, such as urgent tool upgrades, emergency incident responses, or additional consulting requirements.

regulation knowledge across teams Program & People Development: Focus on tuning the cybersecurity framework and adjusting the metrics



### Yearly Budget Breakdown

				$\times$
Category	Year 1	Year 2	Year 3	Year 4
Personnel	\$80,000	\$90,000	\$100,000	\$110,000
Tools & Software	\$40,000	\$45,000	\$50,000	\$55,000
Compliance & Audits	\$20,000	\$30,000	\$35,000	\$40,000
Training & Awareness	\$10,000	\$12,000	\$15,000	\$15,000
Incident Response (IR)	\$10,000	\$15,000	\$20,000	\$25,000
External Consulting	\$15,000	\$20,000	\$25,000	\$30,000
Contingency (10%)	\$17,500	\$21,200	\$27,000	\$30,000
Total Estimate	\$192,500	\$233,200	\$272,000	\$305,000

- IT Budget Spent on Cybersecurity
- General Industry Average: 10%
- Technology, Healthcare: 13%
- Companies with a market capitalization of \$300 million or less allocate a larger proportion of their budget (22.7%)