Top Security Trends for 2023

Richard Addiscott

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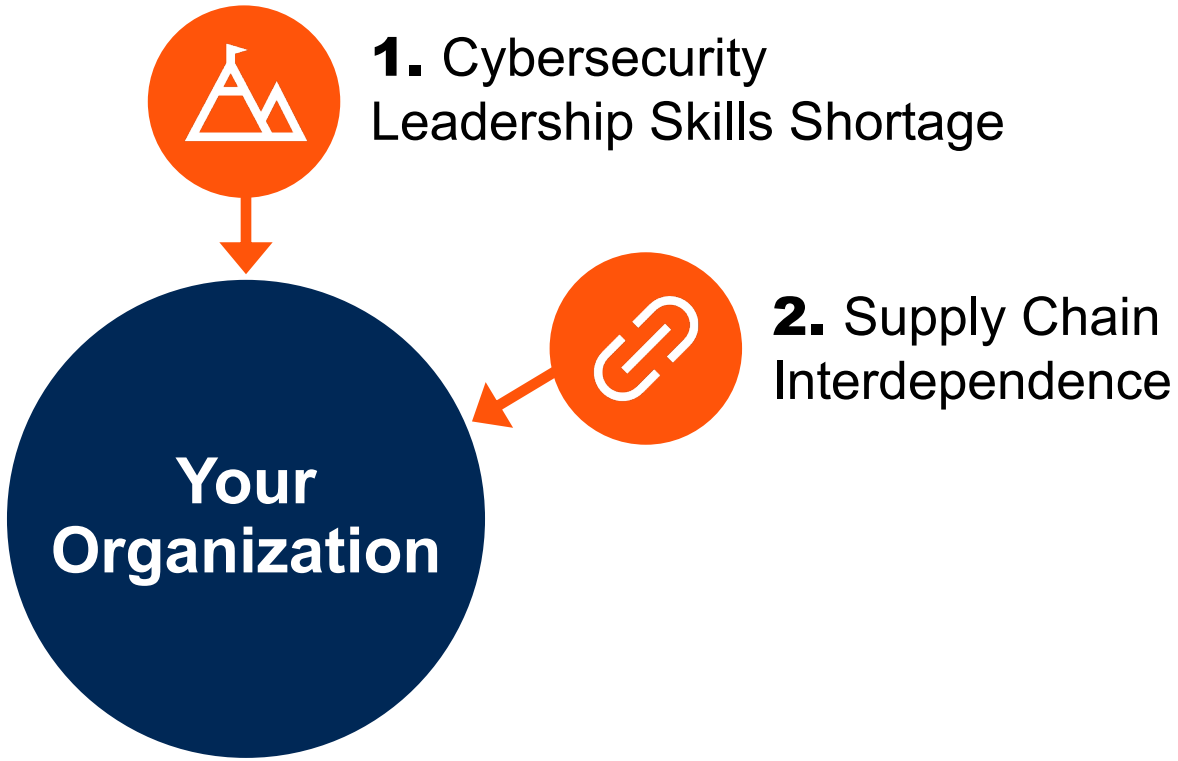

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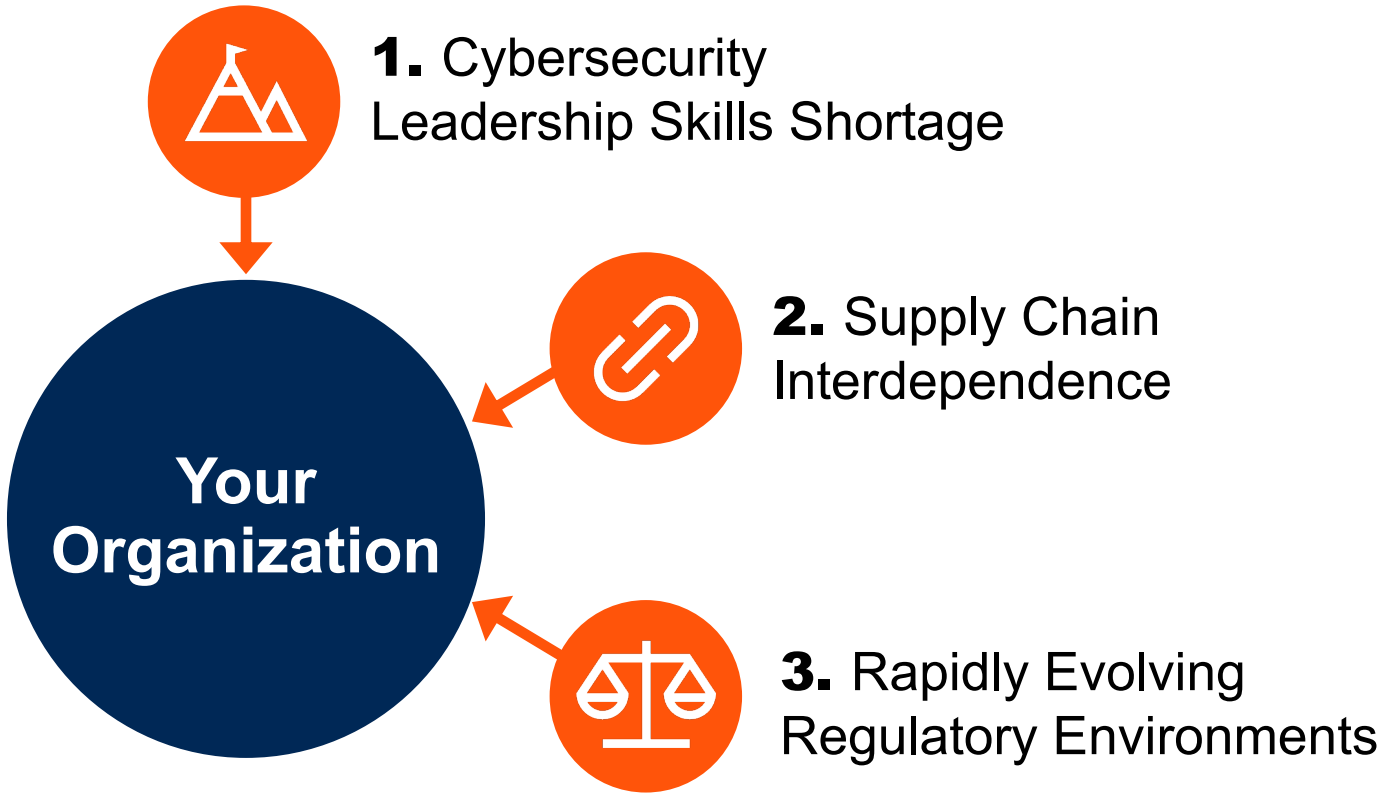

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CI = Critical Infrastructure

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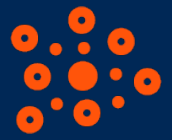
Top Cybersecurity Trends for 2023

 Responsive Ecosystems	 Restructuring Approaches	 Rebalancing Practices
• Threat Exposure Management • Identity Fabric Immunity • Cybersecurity Validation	• Cybersecurity Platform Consolidation • Cybersecurity Operating Model Transformation • Composable Security	• Human-Centric Security Design • Enhanced People Management • Increasing Board Oversight

Sustainable Balanced Cybersecurity Programs

Source: Gartner

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Trend 1

Enhancing Visibility and Efficiency via Threat Exposure Management

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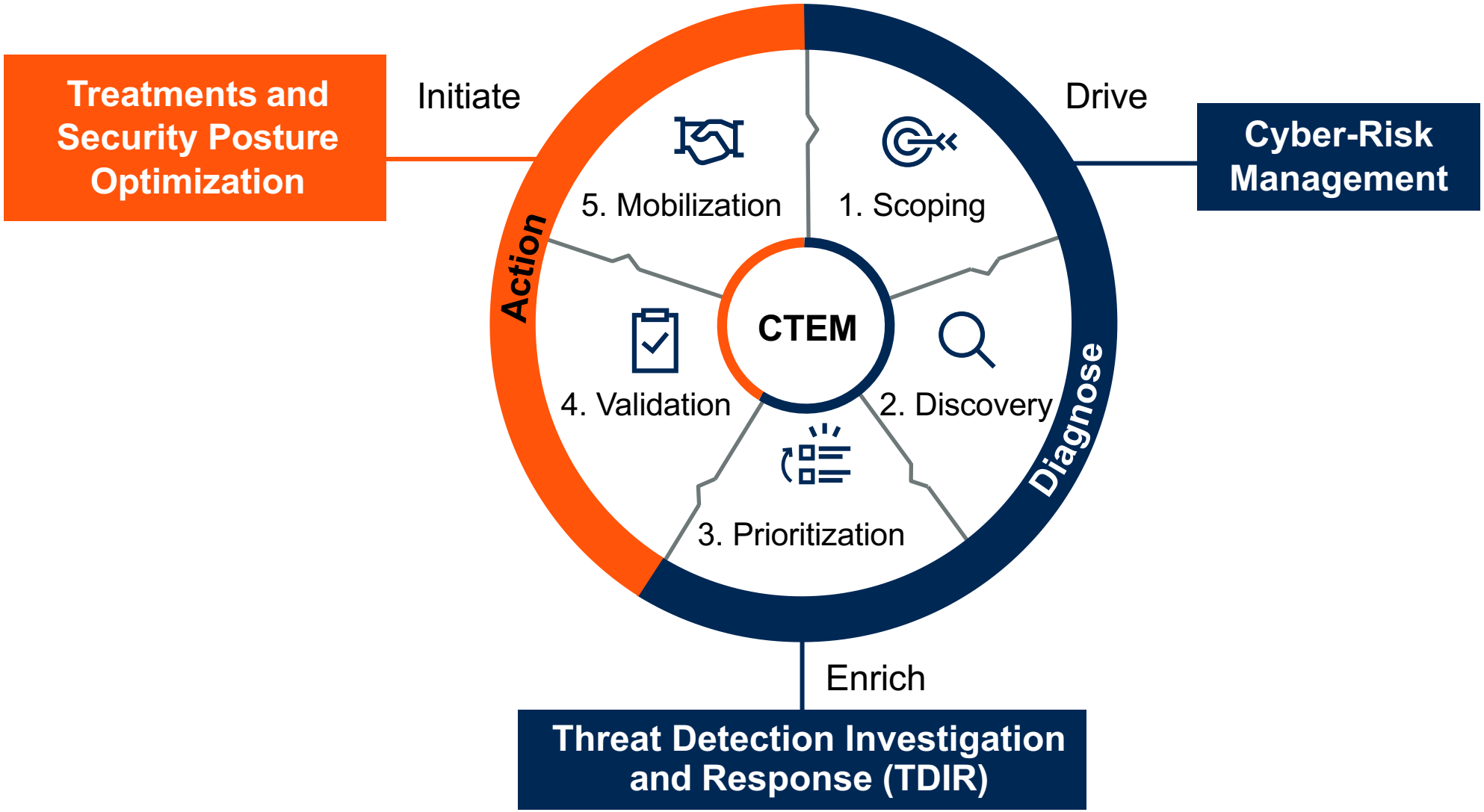
Continuous Threat Exposure Management (CTEM)



Source: Predicts 2023: Enterprises Must Expand From Threat to Exposure Management (G00779535)

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Action Plan

1. *Adopt* CTEM principles progressively.
2. *Align* your scope to the business. *Foster* cross-team collaboration to ensure CTEM cycles become repeatable.
3. *Identify* and *document* nonpatchable exposures.
4. *Shift* from tactical automatic responses. *Offer* a range of optimization options.

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Trend 2

Safeguard Your Critical IAM Assets With Identity Fabric Immunity

IAM = Identity and Access Management

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Identity Fabric Immunity

Enables Identity-First Security

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Identity Fabric Immunity

Before an Attack on Identity Systems

Hygiene and Security Posture

During an Attack on Identity Systems

Threat Detection and Response

Enables Identity-First Security

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Action Plan

1. *Use* what you have! *Go* back to basics, *remove* dormant accounts, *enforce* least privilege and *implement* multifactor authentication (MFA).
2. *Design* an identity immunity program that provides protection before and during an attack.
3. *Assess* your existing identity infrastructure to identify areas of potential fragility.
4. *Balance* investments in prevention and ITDR. *Acquire* exposure and posture management capabilities.

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Trend 3

Provide Enhanced Assurance With Cybersecurity Validation

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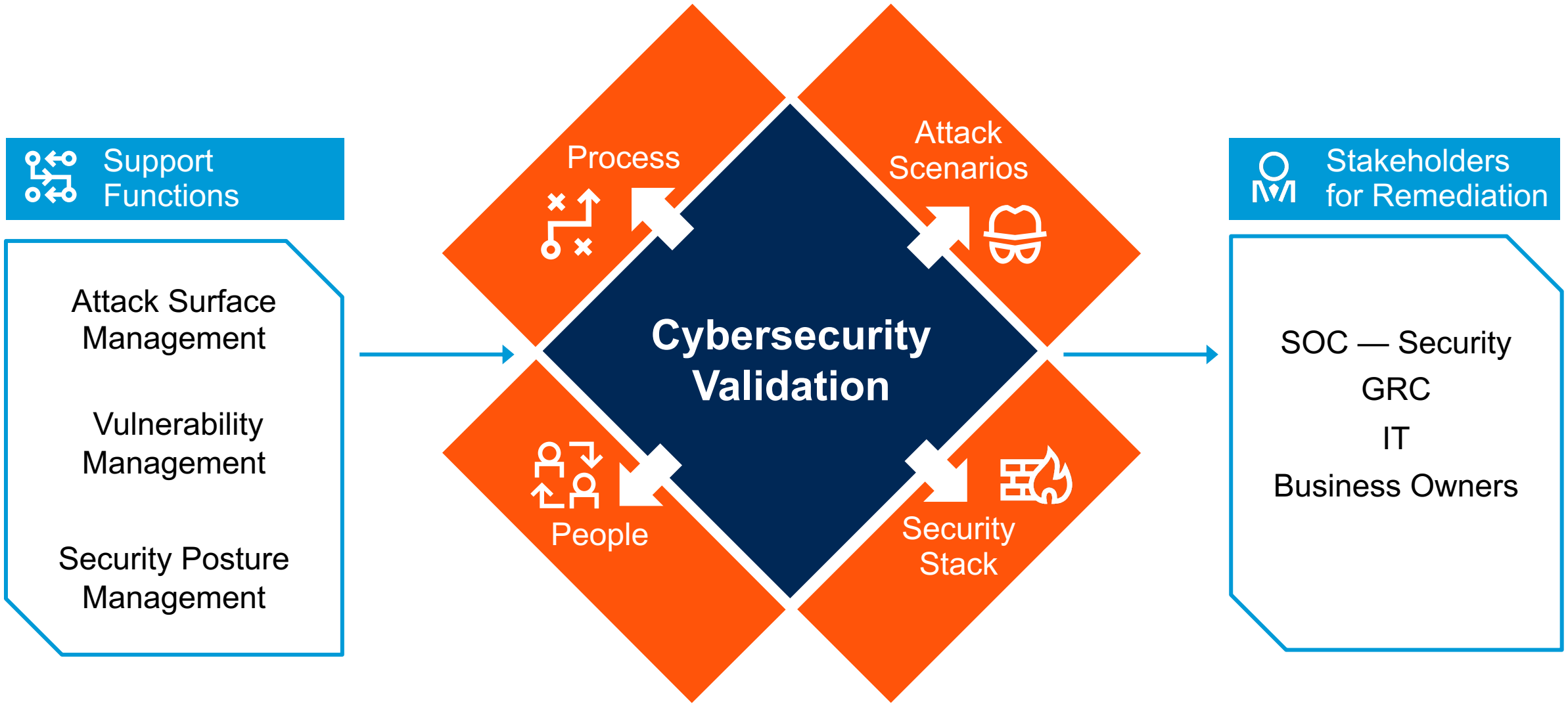
Cybersecurity Validation



SOC = Security Operations Center
GRC = Governance, Risk and Compliance

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Action Plan

1. *Adopt* the “attacker’s view” to assess the effectiveness of key security controls.
2. *Increase* the frequency of your validation testing to ensure consistency.
3. *Score* the effectiveness of existing controls across multiple attack vectors.
4. *Assess* SOC readiness and employee and partner behaviors to evaluate control effectiveness.

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Reduce Complexity Through Cybersecurity Platform Consolidation

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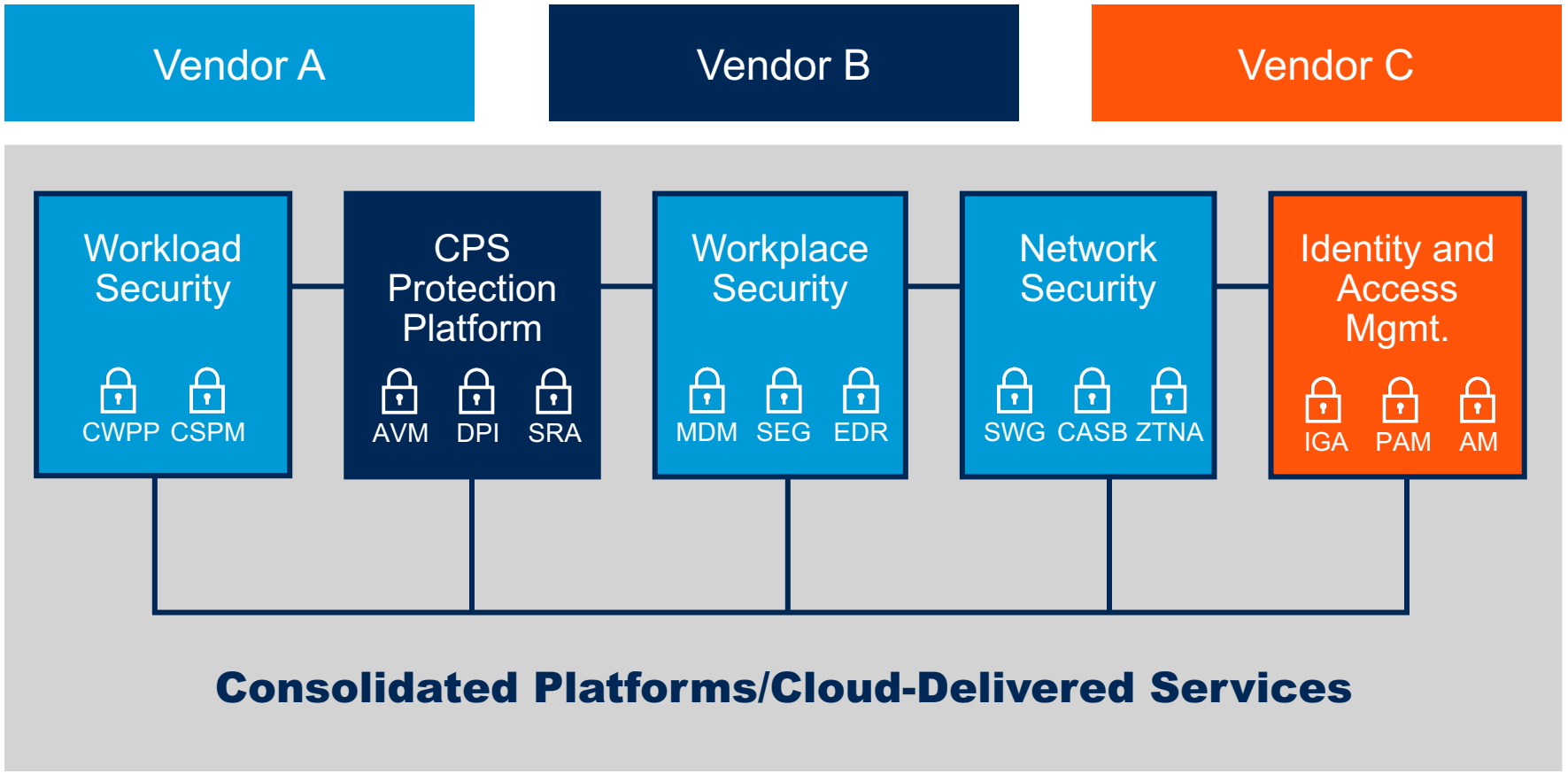
Security Platform Consolidation



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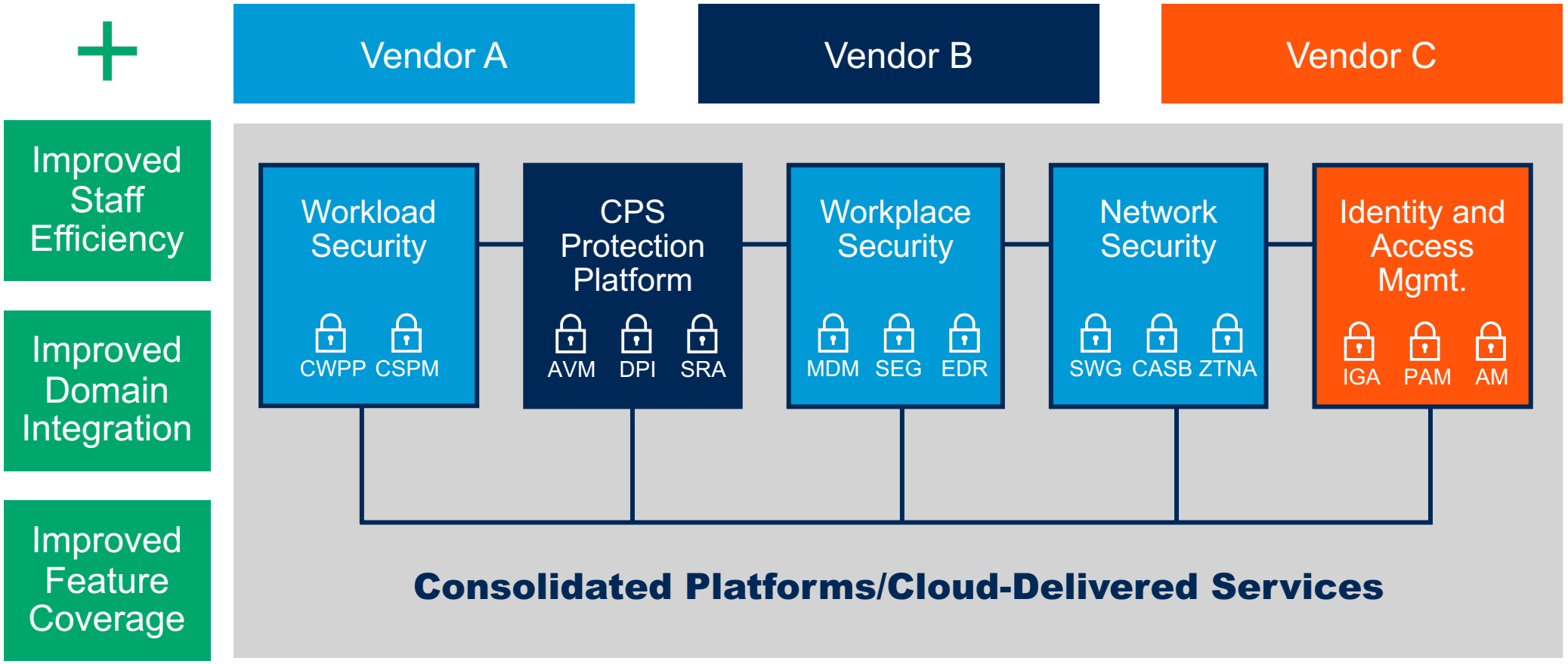
Security Platform Consolidation



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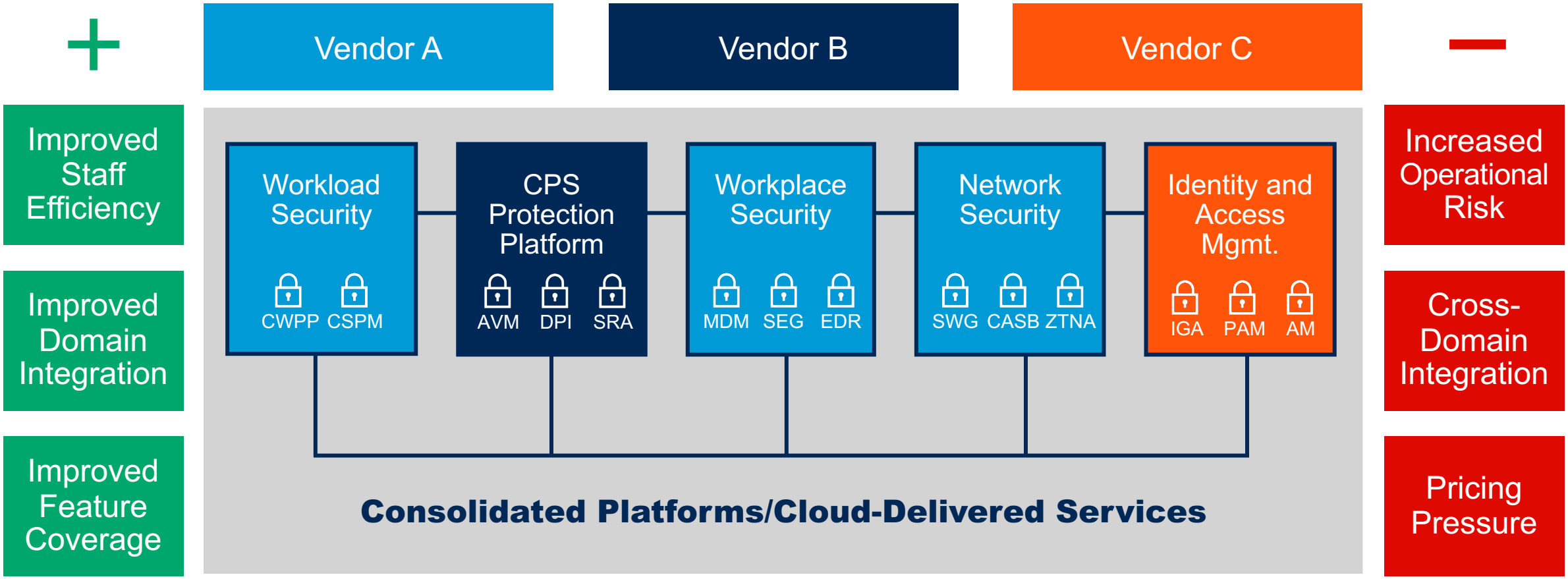
Security Platform Consolidation



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Action Plan

1. *Reduce* redundancy in consolidated platforms.
2. *Prefer* vendors with strong partner ecosystems.
3. *Develop* contingencies if point solution vendors are acquired.
4. *Allow* for the “triple squeeze” of high inflation, talent shortages and having less vendors to choose from.

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Trend 5

Support Value Creation by Transforming the Cybersecurity Operating Model

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Transform Cybersecurity's Operating Model

How You Enable Engagement With the Business

How You Enable the Security Function

How You Deliver the Function

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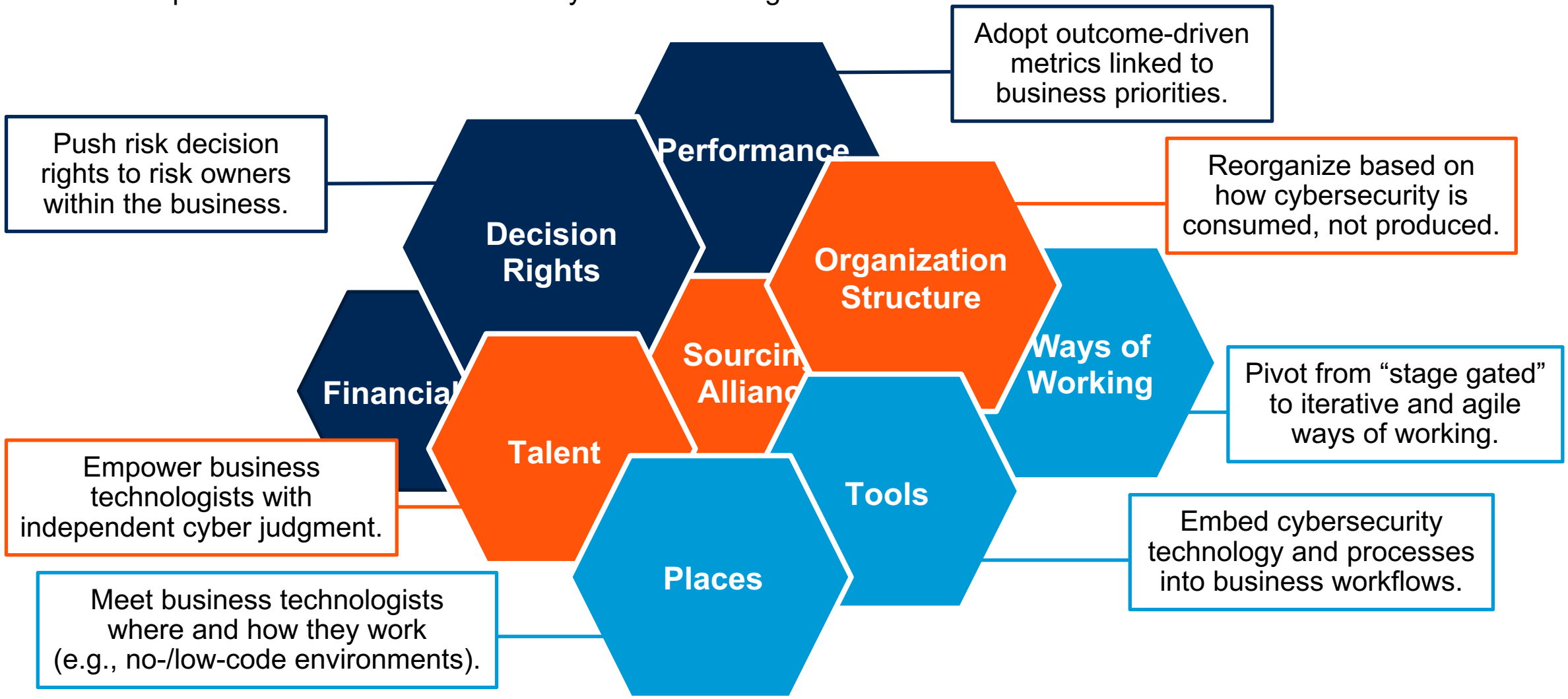
Transform Cybersecurity's Operating Model

Essential Adaptations to Enable Distributed Cyber-Risk Management



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Action Plan

1. *Deliver* cybersecurity as a core feature embedded into existing business workflows.
2. *Empower* people across the enterprise to independently make informed risk decisions.
3. *Establish* cybersecurity governance structures to support good cyber judgment across the enterprise.
4. *Connect* cybersecurity to business outcomes to show how cybersecurity investment supports business priorities.

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Composable Security to Secure Composable Business

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Composable Security

Enterprise Architect

Model the Modular Business Architecture

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Composable Security

Enterprise Architect

Model the Modular Business Architecture

Creators

Design, Create the Business-Modular Building Blocks

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Composable Security

Enterprise Architect

Model the Modular Business Architecture

Creators

Design, Create the Business-Modular Building Blocks

Curators

Manage the Marketplace of Building Blocks

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Composable Security

Enterprise Architect

Model the Modular Business Architecture

Creators

Design, Create the Business-Modular Building Blocks

Curators

Manage the Marketplace of Building Blocks

Composers

Use Building Blocks to Compose Applications

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Composable Security

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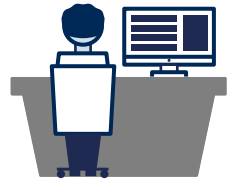
Use Building Blocks to Compose Applications



Consumers

Use Applications to Achieve Business Goals

The 4 C's of a Composable Digital Approach

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Composable Security

Enterprise Architect

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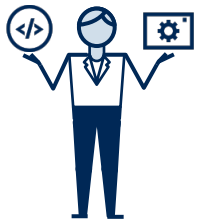

Composers

Use Building Blocks to Compose Applications

Consumers

Use Applications to Achieve Business Goals

And the CISO Makes Five …

CISO

Secure Building Blocks and End-to-End Applications

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Action Plan

1. *Identify* initiatives related to composable architecture underway in your organization.
2. *Ensure* the CISO is included as the “fifth C” in the process.
3. *Test* and *validate* to ensure composable business applications are secure by design.
4. *Ensure* published components are security vetted prior to use by consumers.

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Trend 7

Enhance Control Adoption and Efficacy With Human-Centric Security Design

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Human-Centric Security Design

- **Empathy-Based Engagement**
- **Intentional Collaboration**
- **Flexible Security Experience**
- **Ethically Centered**

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Human-Centric Security Design

- **Empathy-Based Engagement**
- **Intentional Collaboration**
- **Flexible Security Experience**
- **Ethically Centered**

- **Reduced Operational Friction**
- **Improved Control Adoption**
- **Improved Control Effectiveness**
- **Reduced Cyberincidents**
- **Improved Business Value for Security**

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Action Plan

1. *Identify* sources of cybersecurity-induced friction.
2. *Use* HCSD principles to redesign or retire controls that add friction without meaningfully reducing risk.
3. *Execute* an HCSD proof of concept (POC) with an initiative likely to change the user experience.
4. *Upskill* security staff in empathy-driven HCSD practices.
   Use outcome-driven user-experience metrics to measure success.

HCSD = Human-Centric Security Design

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Trend 8

Enhancing People Management for Security Program Sustainability

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Cybersecurity Talent Management Life Cycle

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Cybersecurity Talent Management Life Cycle

Digital Business Strategy

Strategic Workforce Architecture

Drivers and Inputs

Outcome

Improved Organizational Cyber Posture

High-Impact Cyber Workforce

Recruit

- Cybertalent Profiles
- Employer Branding
- Inclusive Selection
- Onboarding

Renew

- Skills and Competencies Development
- Career Planning
- Succession Planning

Retain

- Cyber Employee Value Proposition (EVP)
- The Human Deal

Release

- Transitions Planning
- Offboarding
- Alumni Relations

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Action Plan

1. *Identify* talent gaps and define measurable retention objectives.
2. *Adopt* targeted people management tactics for each phase of the talent life cycle.
3. *Proactively* partner with HR to create a specific cybersecurity value proposition.
4. *Lead* by example!

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Trend 9

Enhancing Cybersecurity Reporting Driven by Increasing Board Oversight

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Trend 9

Enhancing Cybersecurity Reporting Driven by Increasing Board Oversight

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Evolve Your Cybersecurity Reporting to Assist the Board

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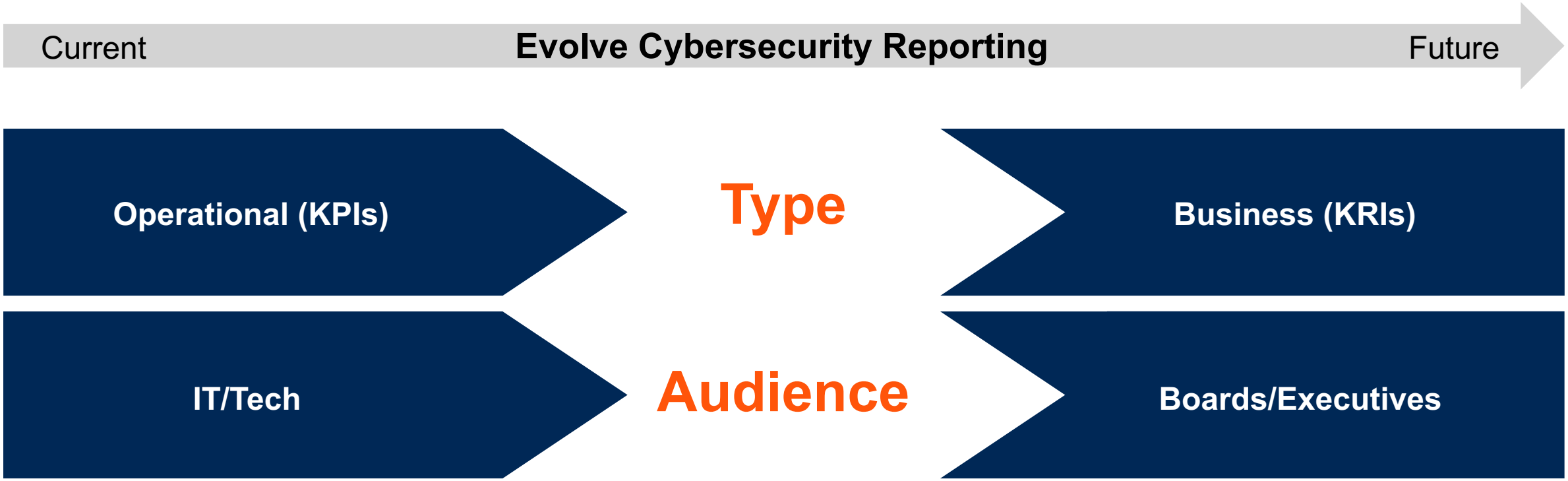
Evolve Your Cybersecurity Reporting to Assist the Board



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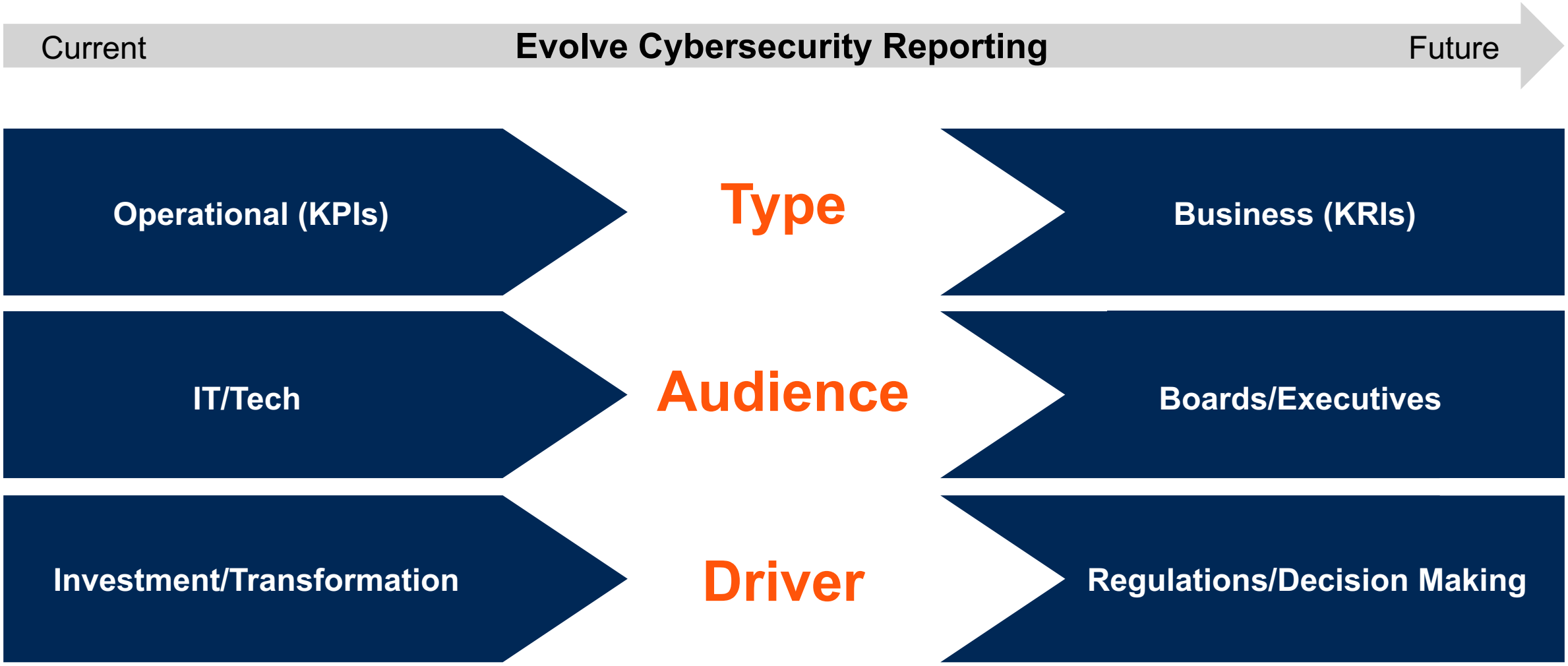
Evolve Your Cybersecurity Reporting to Assist the Board



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Action Plan

1. *Understand* your audience and the board's cybersecurity literacy levels.
2. *Help* the board set an agreed cybersecurity risk appetite.
3. *Monitor* alignment of actual risk and defined risk appetite.
4. *Leverage* outcome-driven metrics to help inform the board's cybersecurity investment decision making.

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Recommendations

Build responsive ecosystems:

- Adopt an attacker's mindset to help prioritize cyber-risk mitigation efforts by taking an end-to-end view of the attack surface and consolidating vendor portfolios where appropriate.
- Implement a cohesive approach that balances tactical and strategic initiatives to harden your IAM infrastructure to create improved identity fabric immunity and resilience.

Restructure your approach:

- Establish the ability to continuously inventory security controls to understand gaps and overlaps that exist to reduce the redundancy in consolidated platforms.
- Optimize the alignment of cybersecurity capabilities to new digital and distributed ways of working by adopting new security operating models and architectural approaches that foster agility and embed security by design.

Rebalance your practices:

- Introduce human-centric security design practices to help minimize operational friction and improve control adoption.
- Develop a human-centric and inclusive cybersecurity talent life cycle for all employees in cybersecurity roles by working closely with HR to redefine your cybersecurity EVP.

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Recommended Gartner Research

- **Implement a Continuous Threat Exposure Management (CTEM) Program**
  Jeremy D'Hoinne, Pete Shoard and Mitchell Schneider
- **Enhance Your Cyberattack Preparedness With Identity Threat Detection and Response**
  Henrique Teixeira, Peter Firstbrook and Others
- **Innovation Insight for Attack Surface Management**
  Mitchell Schneider, John Watts and Pete Shoard
- **Innovation Insight for Cyber-Physical Systems Protection Platforms**
  Katell Thielemann and Wam Voster

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Recommended Gartner Research

- **Case Study: Framework to Enable Business Ownership of Cybersecurity Activities**
  Cybersecurity Research Team
- **CISO Foundations: 4 Actions CISOs Must Take to Reduce Cybersecurity-Induced Friction**
  Cybersecurity Research Team
- **CISO Foundations: Comprehensive Resource List for Presenting Cybersecurity to the Board of Directors**
  Richard Addiscott, Paul Proctor and Others

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