ITWeb SECURITY SUMMIT 2024

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FOR INFORMATION SECURITY PROFESSIONALS

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“Establishing metrics to measure the success of your cyber security programme”

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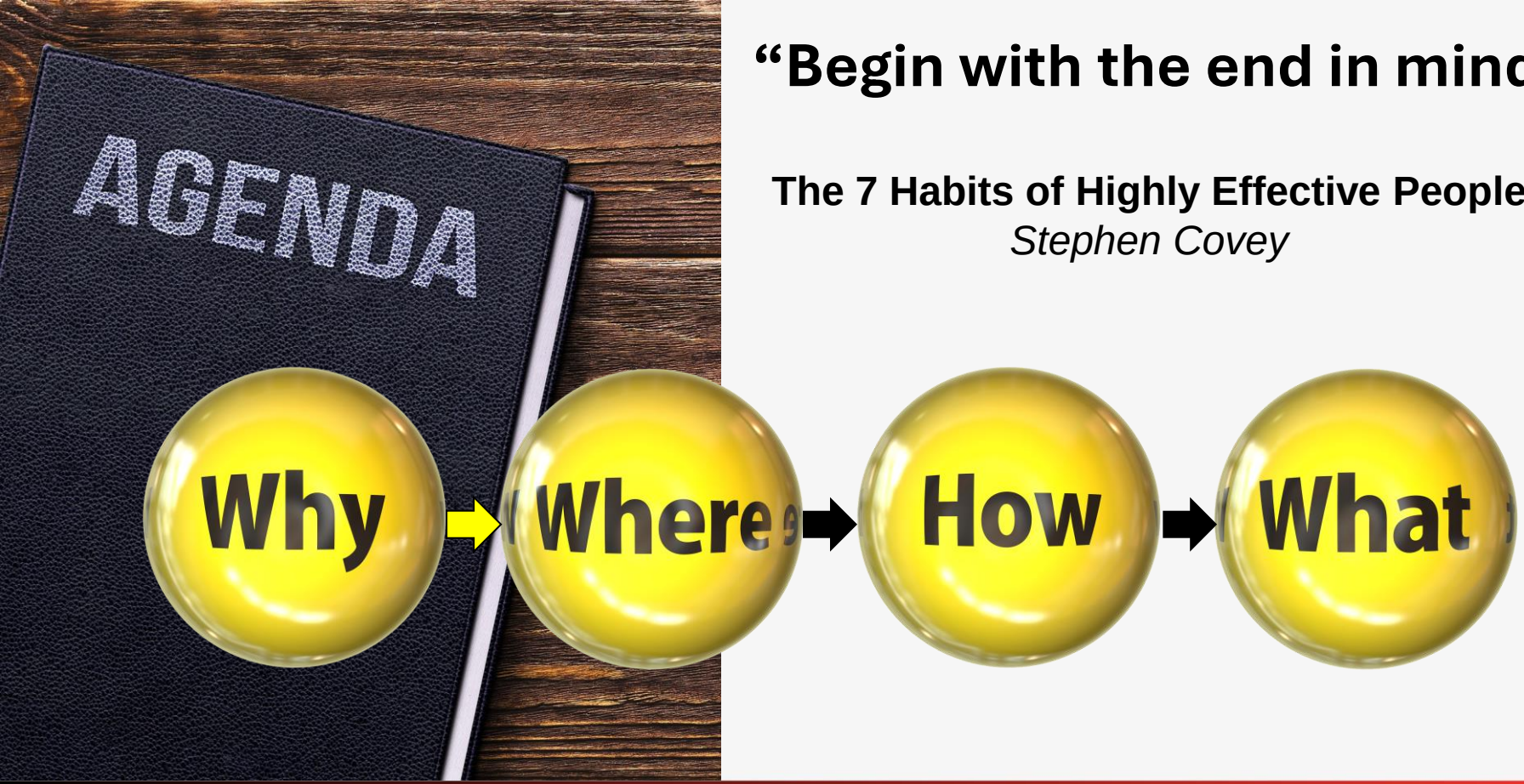
The End

“Begin with the end in mind”

The 7 Habits of Highly Effective People
Stephen Covey



Why

Why establish metrics for cyber security programs?

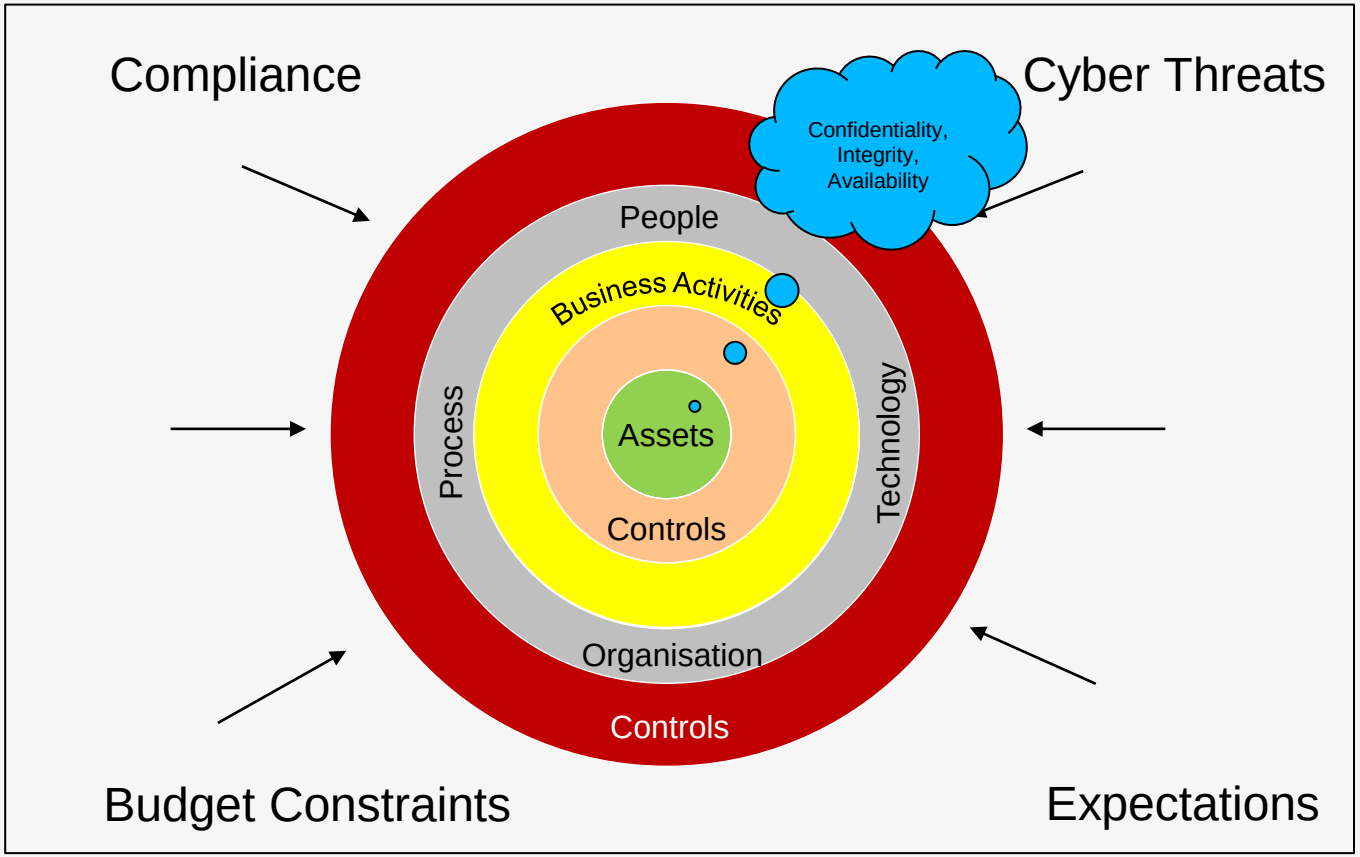
- Ensuring Return on Investment (Benefits Realisation)
- Avoiding Wasteful Expenditure
- Risk Assurance (Different stakeholders)
- Decision Making (Strategy, Investments, Cyber Operations)
- Compliance Reporting

Problems

- Limited Budgets
- Expensive Cyber security solutions and Hypes
- Difficulty Measuring Returns
- Increasing Sophistication in Cyber Attack Vectors
- Poor Reporting to Stakeholders

continued ....

Why


Compliance
Cyber Threats
Confidentiality,
Integrity,
Availability
People
Business Activities
Process
Technology
Assets
Controls
Organisation
Controls
Budget Constraints
Expectations

Where

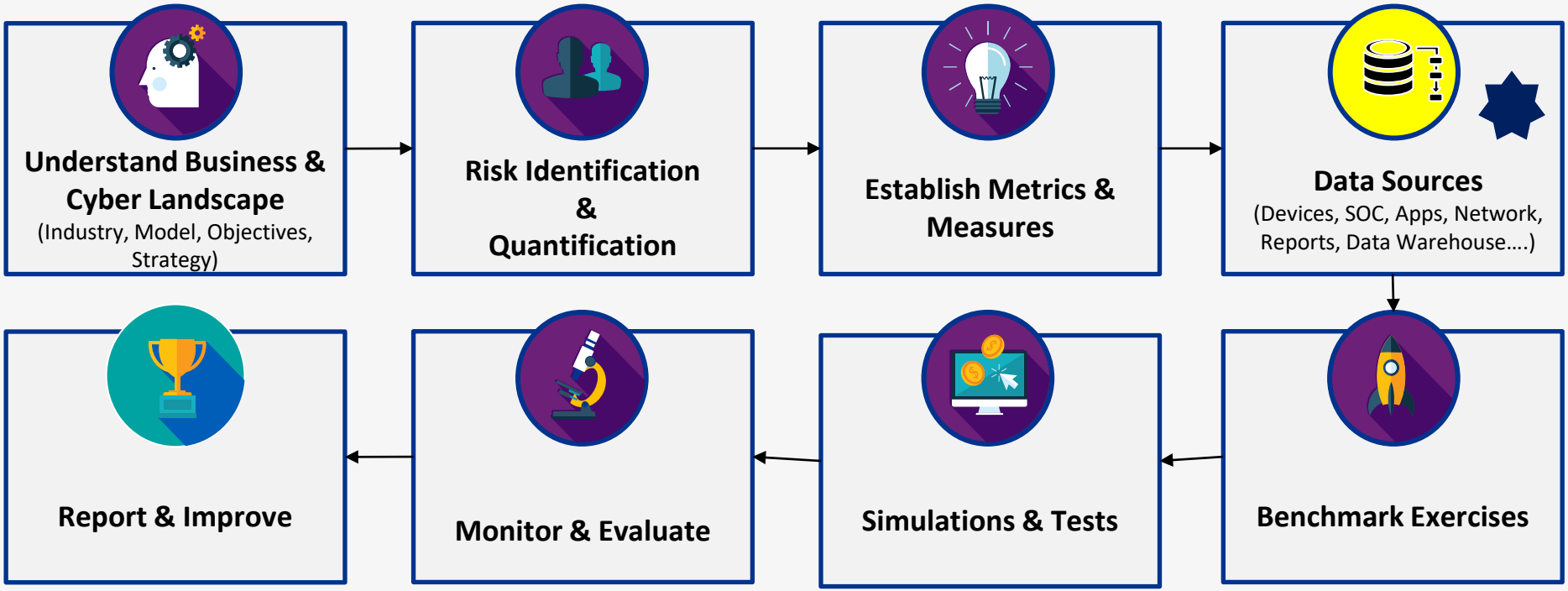
Examples

Cybersecurity Domains or Program Areas

1	Asset Management	6	Vulnerability Management
2	IT Governance Risk & Compliance	7	Application Security
3	Data Governance	8	User Awareness
4	Security Operations	9	Identity & Access
5	Threat Intelligence	10	Architecture

How

Approach to Establishing metrics & measures



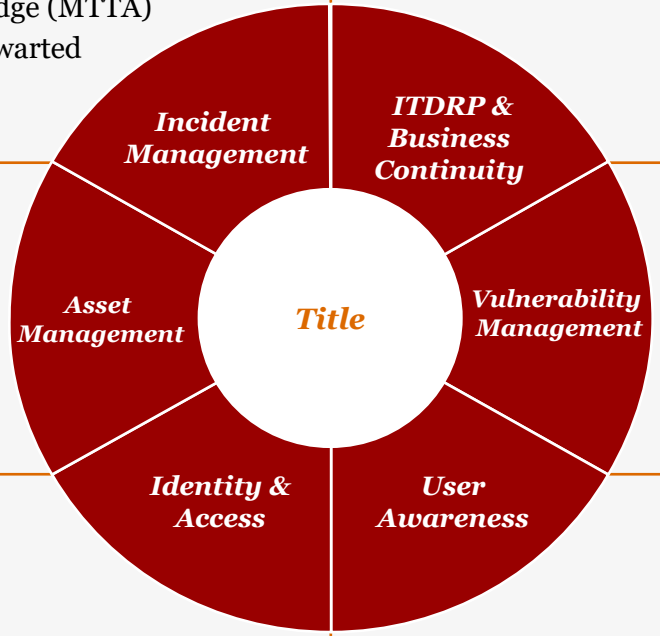
Icons source: KPMG

What

Common Metrics

- Mean Time to Resolve (MTTR)
- Mean Time to Acknowledge (MTTA)
- Number of Incidents Thwarted

- Mean Time to Contain
- Mean Time to Recover
- Preparedness Rate
- Recovery Time Objective(Test or Real Crisis)



- Asset Compliance
- Unidentified devices
- **Asset value : Security Controls Cost**
- Mean Time Between Failures
- Device Health Score

- Mean Time to Patch
- % High – Medium Vulnerabilities Resolved in XX days
- Number of Repeat Vulnerabilities

- Onboarding Time
- IAM Audit Compliance
- IAM Incident Rate

- % Training Completed
- Behaviour Change Analytics
- Phishing Proness

NB: One size does not fit all – Depends on maturity and environment

System Downtime

3rd Party Risk Score

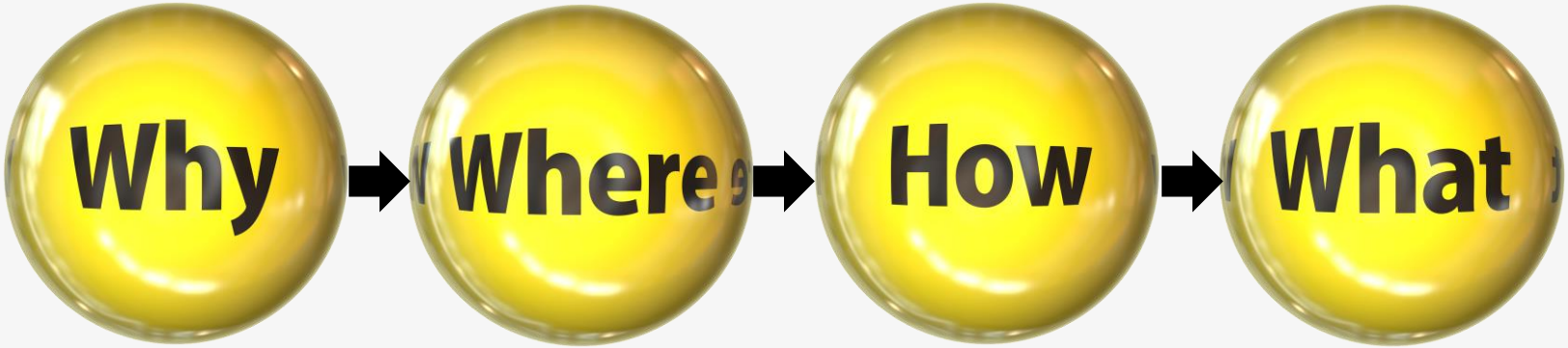
Cyber Insurance Compliance

Audit Findings Closure Rate

COBIT Maturity Improvement

Network Performance

Failed / Unauthorised Changes


Why
Where
How
What

The End

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