



Cyber Blueprint: Offer & Advisory

Details of the engagement offer & advisory on how our approach can help you and your business

Cyber Maturity Journey

A journey that all organisations will increasingly need to embark on.

Where are you in the process?



Security Fundamentals

- Catalogue assets
- Map attack surfaces
- Discover and catalogue vulnerabilities
- Plan remediation



Vulnerable

- Ad-Hoc controls
- Little to no visibility
- Little to no planning



Australian Signals Directorate Essential Eight (ASD E8)

- Focused on mitigating most likely threats to organizations
- IT Led
- Heavy technology bias



Managed Risk

- Mature Repeatable Processes
- Exec Buy in
- Proactive Focus on monitoring and detection
- Managed 3rd party/supply chain risk
- Process, policy and people focus.



Security First

- Security by design culture
- Regular board briefing
- Simulated Incident Response
- Monitoring of evolving threat landscape
- Technology, people and policy optimized



Cyber Blueprint : Establish a Cyber Vision

Governance

Establishing a data driven culture which defines clear policies, risk management and data ownership

People

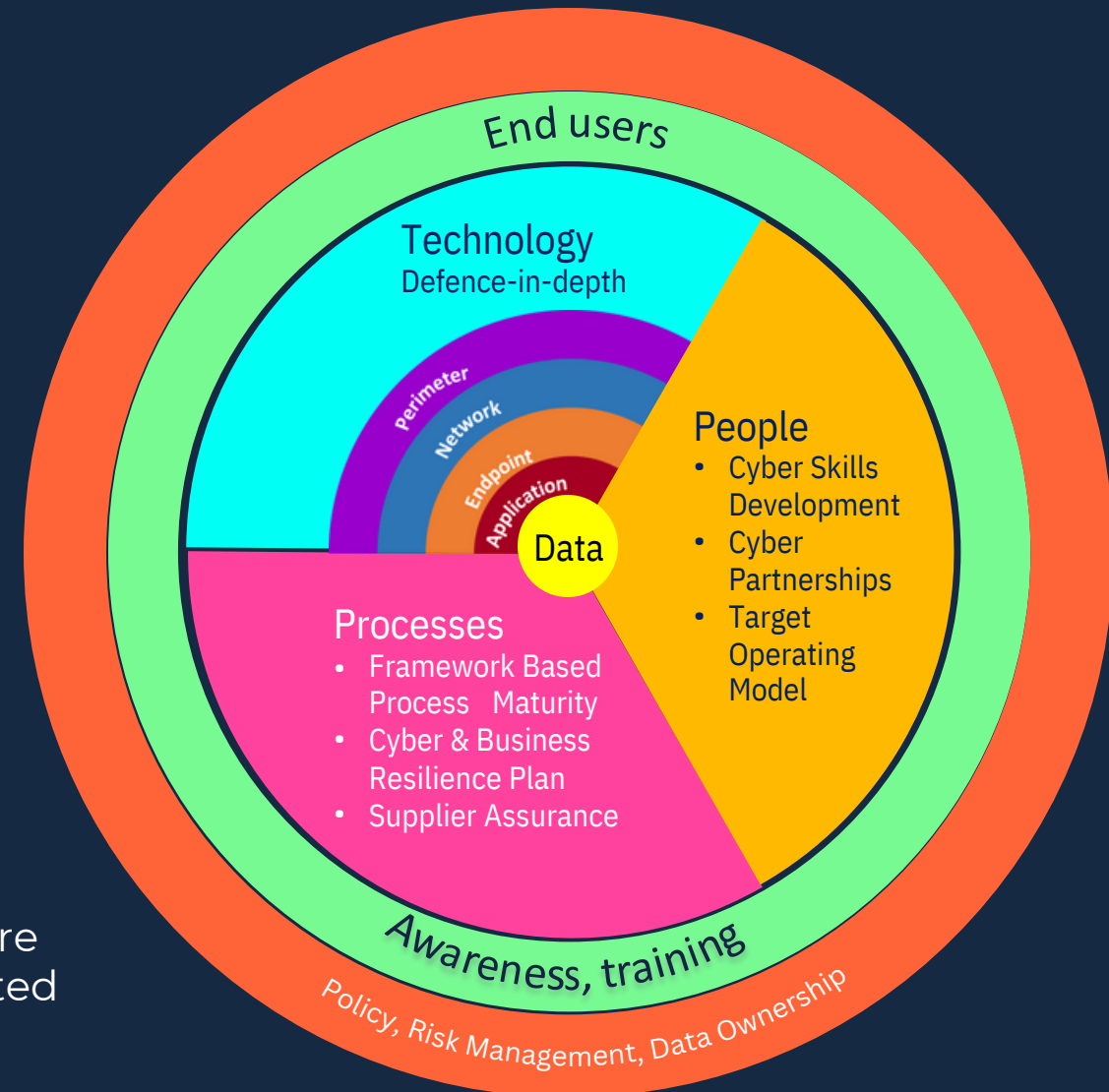
Equipping our people with the cyber skills needed to defend our systems alongside our strategic partners

Process

Adopting a major framework based maturity approach which extends across our digital supply chain

Technology

Aligning with a Defence in Depth methodology to ensure that organisational systems and data are always protected from the evolving threat landscape





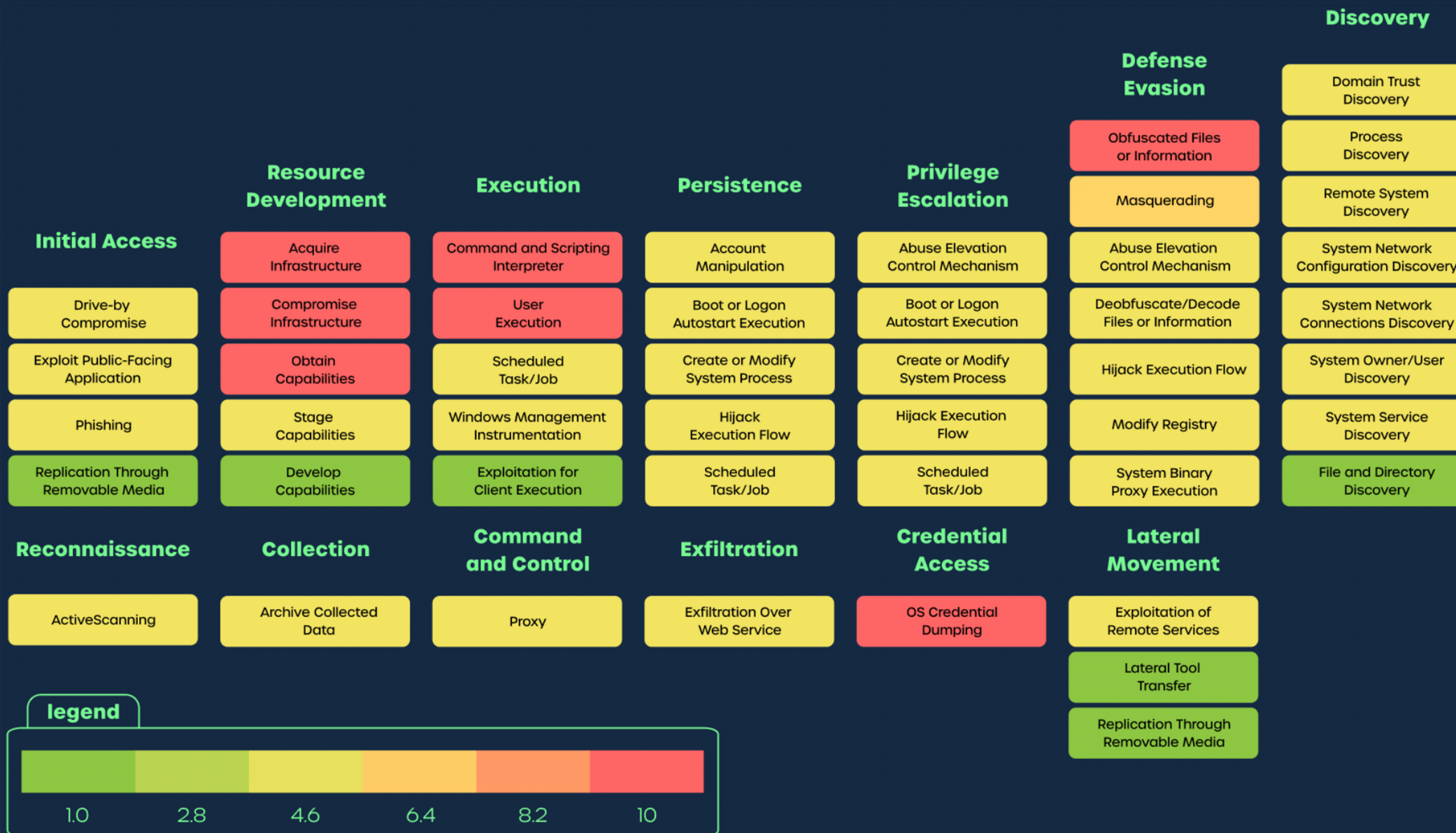
NIST Cyber Security Framework

| | |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Identify | <ul style="list-style-type: none">• Understanding of the business context• Knowledge of the data, systems and information held along with the criticality• Identifying and managing risks |
| Protect | <ul style="list-style-type: none">• Safeguards to ensure the critical infrastructure and the data are appropriately protected• Controls and measures to limit and contain the impact of a cyber-attack• Defence in depth (onion layered) security model |
| Detect | <ul style="list-style-type: none">• Identify occurrences of cyber security incidents in a timely manner• Understand which business critical systems have been affected and to what extent |
| Respond | <ul style="list-style-type: none">• Activities, processes and controls to take action against cyber security incidents• Respond in a precise, consistent manor• Deal with incidents accurately and effectively whilst still operating its critical business functions |
| Recover | <ul style="list-style-type: none">• Activities, processes and controls to maintain resilience and to recover• Return to normal operation as soon as possible after a cyber-security incident |







Mitre Att&ck Framework: Focus For Your Sector

This Framework focuses on specific risks for your sector....not just compliance for compliance's sake.



Cyber Maturity Blueprint - Example

| InfoSec Team Function | Q1 23 | Q2 23 | Q3 23 | Q4 23 | 4Q 23 | 1Q 24 | 2Q 24 | 3Q 24 | 4Q 24 | 1Q 25 | 2Q 25 | 3Q 25 |
|-------------------------------------------|--------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------|---------------------------------------|------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------|-------|-------|-------|
| Governance, Risk and Compliance | Align with existing ITS Steering model | | Supplier Due Diligence – All Critical Suppliers | | | | Ongoing Supplier Due Diligence | | | | | |
| | Agree Operating Model | | InfoSec Steering forum | | | |  | Ongoing InfoSec Steering and Management Review | | | | |
| | Mature Asset & Risk Management | | Ongoing Risk Management & Internal Security Audit Programme | | | | | | | | | |
| People, Awareness & Training | Ongoing Staff & Student Training & Awareness Programme | | | | | | | | | | | |
| | Operating Model & Skills Requirement | | Recruitment in InfoSec Team & Skills Matrix | | | |  | Succession Planning & Cross Skilling | | | | |
| | IR Response Partner/ Retainer | | Staff development – Including Wider ITS Cyber Skills and InfoSec Specialist Training | | | | | | | | | |
| Information Security Management Processes | Mature base capabilities: vulnerability, risk process | | Secure Development Lifecycle (SDLC) | | | | | | | | | |
| | Cyber Incident response maturity | | Security posture monitoring | | | |  | Wider Assurance of Non-Core Processes inc. Dept & <u>Self Managed</u> | | | | |
| | ISO 27001 – ISMS and Process Maturity | | | | | | | ISO 27001 – Internal Audit and Continual Improvement | | | | |
| Operational Security & Technical Projects | Endpoint Security (EDR) Standardisation | | Access Provisioning | | Mobile Device Security | | Extend Managed Desktop Service / Agreed Baselines inc. Encryption | | | | | |
| | | Cloud Security Standards | | Web Application Firewall (WAF) | | |  | Enhanced Network Detection & Response | | | | |
| | | Email Security Enhancements | | Privileged Access Management Solution | | Data Loss Prevention (Email / Storage / File Transfer) | | Further optimisation of cloud security controls | | | | |



Mapping your Blueprint

Session 1

Threat Briefing

Understanding the adversaries and risks in your threat landscape



Australian Signals Directorate Essential Eight

Where you sit against the ASD E8

Session 2

Cyber Exposure

Understand your external attack surface through the eyes of an adversary



NIST (CSF) RADAR Benchmarking

Gain insight into your strong and soft spots against NIST



Mapping your Blueprint: Session One



Threat Briefing

- Current Industry Trends
- Risks to Higher Education
- Highlight Environmental Blind Spots



ASD Essential 8 Whiteboard Session

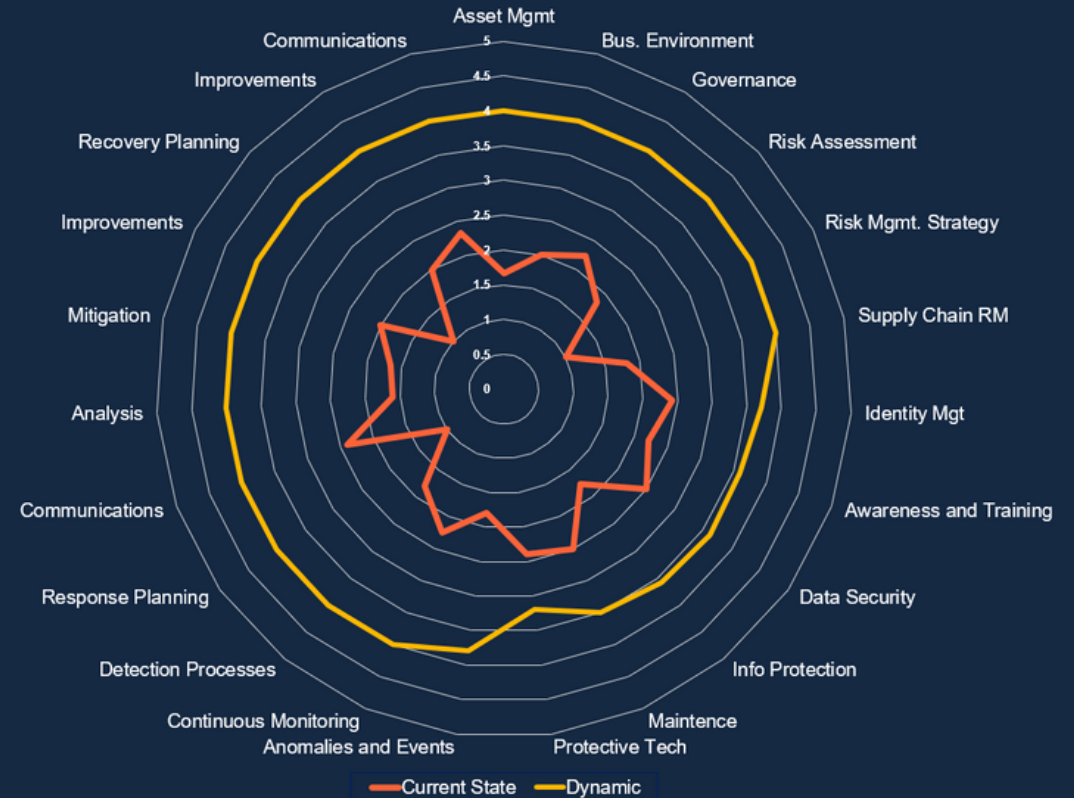
- Understand maturity levels and mappings
- Review current controls and standings
- Identify potential for maturity growth



Mapping your Blueprint: Session Two

Cyber Exposure

- Understand how motivated attackers find organizational weaknesses.
- See how your organization looks from the outside looking in

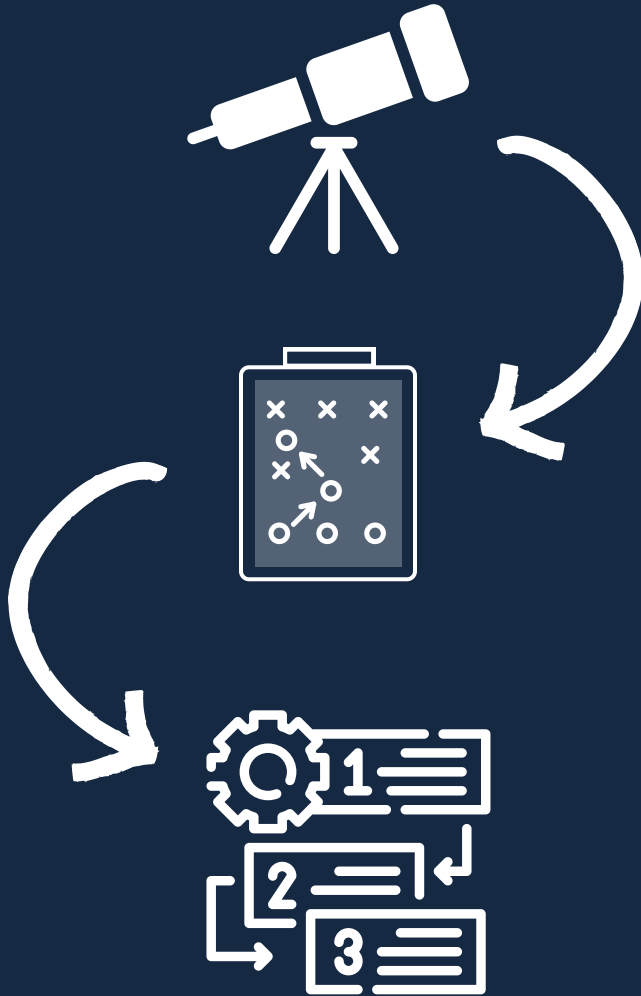


NIST (CSF) RADAR Benchmarking

- Map out your current controls and process against NIST
- View maturity scored in specific areas to better understand individual potential for growth



Mapping your Blueprint: Next Steps



Use insights gained to outline goals, objectives & vision

- High level strategy & tactical plans
 - Design operating model
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Identify the activities required to meet goals

- Leverage current environment and resources
 - System Selection & Prioritization
 - Understanding area's of investment
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Assign priority to activities and map to blueprint

- Outline long term strategy
 - Order the prioritization of activities
 - Align budgetary requirements and resources with prioritization timelines
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Testimonials from our clients..



I just wanted to say once again that you were amazing when the cyber-attack hit, everybody pulling together worked together for the benefit of the students, staff, our institution, and the wider community.

Once again, thank you Waterstons for all you have done, are doing, and will continue to do to maintain vigilance and keep our University and our sector as safe as we can"

David Conway

Deputy Technical Director and Head of IT
University of Sunderland



We understand that the Cyber risk to the HE sector is one which no institution can afford to ignore. As an IT service we are committed to deploying the appropriate people, processes and technology controls to safeguard our data and reputation.

Waterstons has been our trusted partner to help us not only to build an in house security function but also act as our strategic advisor in the field of cyber security.

Their specialists have worked with us side by side as one virtual team to make our cyber security strategy a reality

Rachel Bence

CIO, Queen Mary University of London



The level of engagement and professionalism displayed by the Waterstons Team has been first class at every level. All the requirements were fully understood, and the review was mobilised with the full support and confidence of the LBU stakeholders both in the wider business and in IT."

"Waterstons have demonstrated a depth of knowledge in both the needs of the University and the wider HE Sector, as well as detailed technical knowledge which has ensured that we have been able to gain maximum value from the investment we are making in the review."

"Of note has been the high level of engagement and direct ownership from senior colleagues in Waterstons in both the direction and management of the review, and in developing a genuine partnership".

Nigel Buckland

Associate Director, IT Operations
Leeds Beckett University

Still have questions, comments or concerns?



Our helpful team are
able to get you on track.



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