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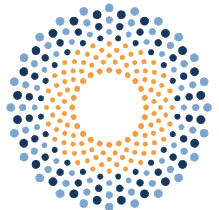
IRIS Security

IRIS Collaboration meeting, Durham,
July 1st 2025

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On behalf of the IRIS Security Team



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Landscape

- Broad status the same: high, persistent risk
- Considerable focus on compliance → Risk
 - Organisational focus

IRIS Security Team

- From last time:
- Focus on “professionalisation” of IRIS Security Team towards IRIS CSIRT
 - RFC 2350 + SIM3
 - Expectations for Computer Security Incident Response
- Work is ongoing, focused on RFC 2350
 - Structural elements of a CSIRT



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Security Handbooks

- More recent work focuses on underpinning “security checklist” for sites, stemming from work for GridPP
 - Partly following longstanding appetite for “security baseline” from sites
 - Focus on using existing work and materials but identify key elements for our environment
 - Propose to extend this to IRIS
 - “Living document”, mature over time
 - Linked to local policies and procedures
- Also an RFC for security handbooks!
 - [RFC2196](#)
 - Some obvious technology anachronisms, but useful basis



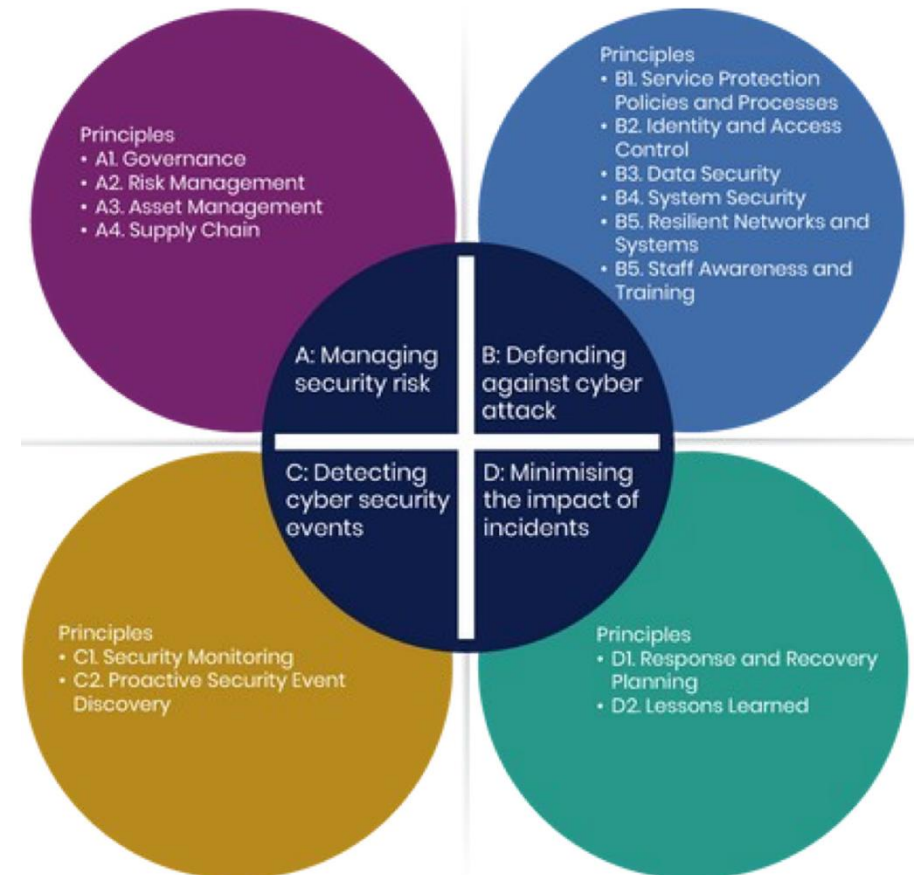
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Cybersecurity reviews

- Potential for many organisations to be undergoing cybersecurity reviews at this time
- In DRI context, drive to focus on NCSC Cyber Assessment Framework (CAF) as “lingua franca”
- Which sites are undergoing such activity?



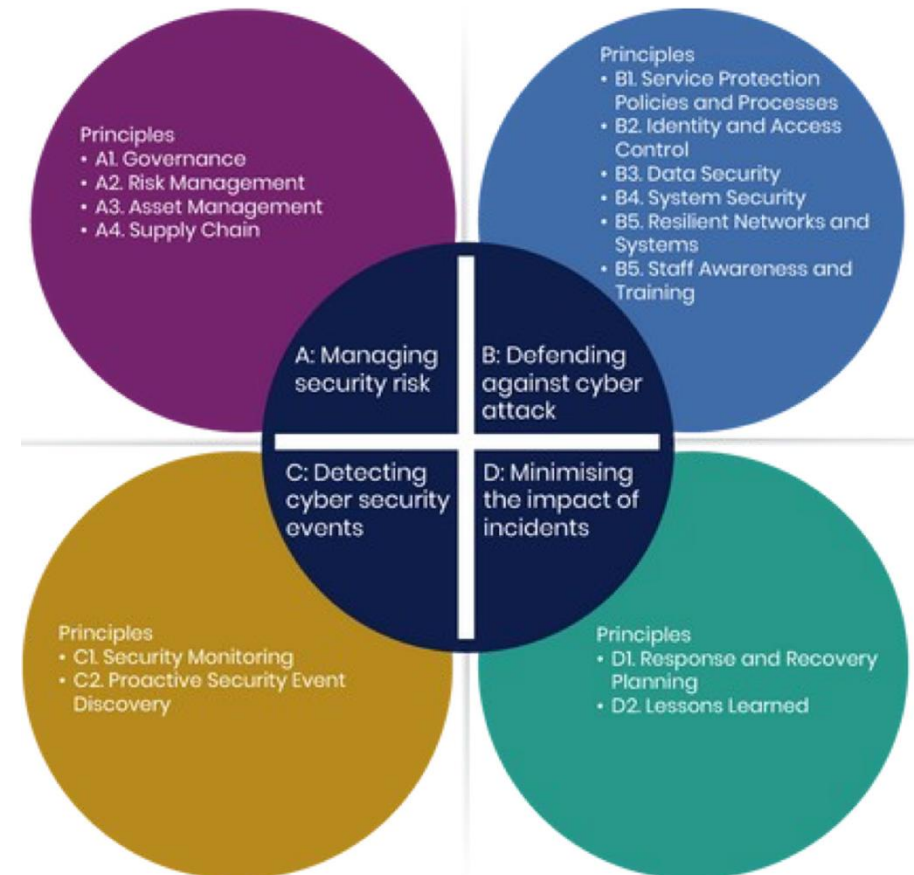
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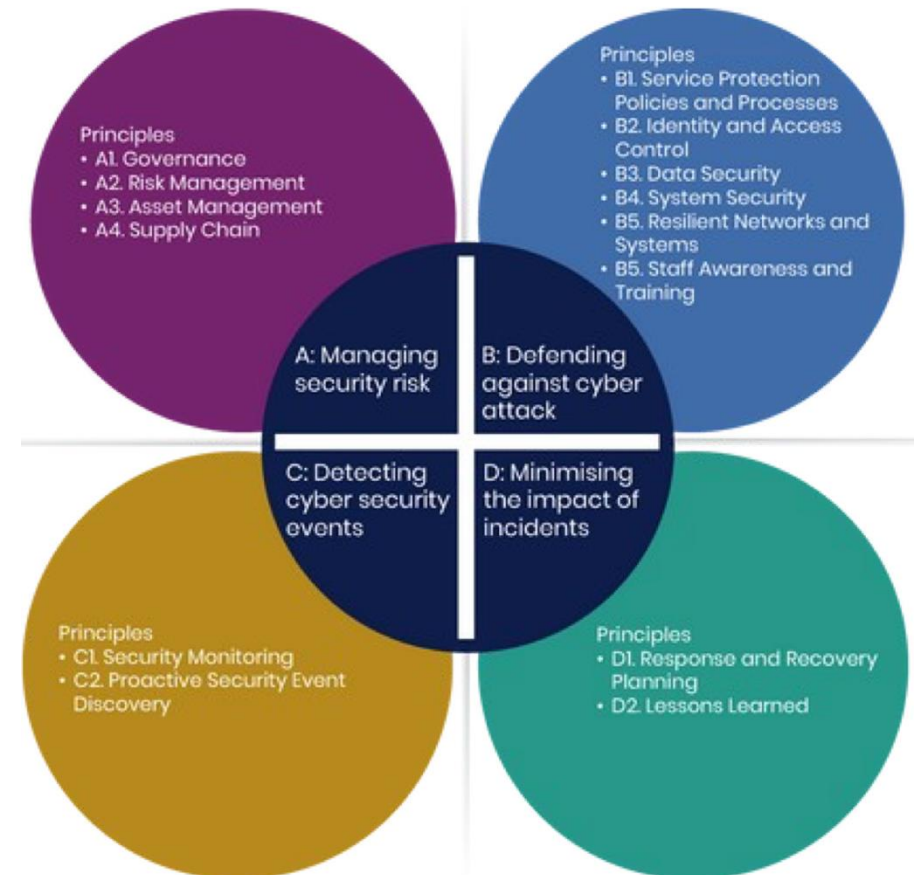
Tier1 CAF outcomes [1]

- Tier1 CAF assessment now complete, including both internal and external assessments
- One conclusion: a full assessment, with over 200 indicators of good practice, is a heavyweight process: up to months of 20%-50% FTE for assessment team



Tier1 CAF outcomes [2]

- Broad outcomes from external assessors fall into
 - Topics which may be specific to research environment
 - Specific work for Tier1
 - Work best focused at higher level



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Cybersecurity Governance

- Focus on higher level
- Processes for governance, risk management and assurance
- Likely to be common thread
- Ongoing process to identify most effective approach

Cybersecurity Governance for Infrastructures

- What does this look like at an infrastructure level?
- Focus of work this summer under the aegis of DRI Cybersecurity
- Invitation for infrastructures/participating organisations to perform lightweight CAF assessment (contributing outcome level, **not** full assessment)
- Followed by in-depth workshops to dig into Objective A: Governance and Risk Management

CAF Objective A

- Governance
- Risk Management
- Asset Management + Supply Chain
- Focus on this area as everything else follows from this
- Intended outcomes from this work:
 - Understand current posture
 - Identify steps to improve
 - Continued understanding of needs in research computing context



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DRI Cybersecurity Workshop

- Next DRI Cybersecurity Workshop: 17/18 July, hosted in Bristol
 - Registrations now open
 - Focus on governance, risk and policy
 - Kick-off workshop for CAF A work
- Overall DRI Cybersecurity focus on Governance, risk, and skills and training
- Build long-term planning to improve overall posture



Skills and Training

- Alongside governance and risk, for me one of the most important activities with long-term impact
- Recent experiences: Thematic CERN School on Computing (Security)
 - First run in 2022
 - Third iteration this year, April 6-12
 - Hosted by STFC at Cosener's House
- Same structure as other thematic schools
 - 5 days, mix of lectures and exercises
 - Tutors from EGI CSIRT, CERN and STFC

CERN School on Security

- Aimed at system managers expected to work with security in their day-to-day role
 - As opposed to cybersecurity professionals – but typically have a small number of these as well
 - Cover security lifecycle of a service

Risk management
Security architecture
AAI
Logging and Traceability
Virtualisation + cloud security
Container security
Vulnerability management
Application security

Security Operations Centres
Security operations
Incident response management
Forensics
Incident response exercise



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Types of training: IRIS

- In person training very effective in delivering broad curriculum
 - And team building within cohort
- Impossible to scale this
 - How do we approach this for IRIS?
 - Approaches + Identify key topics
 - Continue discussion tomorrow
- Identify additional external training



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Upcoming topics: policy

- Setting a flag for the future: IRIS does have a current set of security policies: www.iris.ac.uk/security
- Clear from earlier discussions that not everyone is aware of these – but also we're approaching the point at which a review would make sense
 - See also contemporaneous work in EGI/WLCG scope + AARC TREE
- More on this soon



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Upcoming topics: operational security

- Focus on monitoring across IRIS
 - Site/organisation level
 - Part of IRIS CSIRT work: what would benefit from coordinated activity
- Next SOC Hackathon: Bucharest, 15-17 September
 - Remote attendance possible
 - Identify where we could encourage additional IRIS/GridPP/DiRAC work in this area
 - Potential focus this time on growing toolset
 - Talk to David afterwards
- Software vulnerability risk assessments
 - EGI Software Vulnerability group looking at future developments
 - Very important for IRIS/DRI scopes to best understand how to contribute to this work



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Summary

- In a continued high risk environment, security governance and risk management are key areas for development
- Understand impact for IRIS: engage with broader DRI activities
- Skills and training vital additional strand



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Thank you



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@STFC_Matters



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The background features a large blue rectangle on the right side, which is partially overlaid by a series of overlapping, stylized blue lines and shapes that resemble a circuit board or a network diagram. These lines extend from the top and bottom edges of the blue rectangle towards the left, creating a sense of depth and movement.

Questions?