

Mitigating Cyber Attack Impacts

Pete Cooper, Former Deputy Director Cyber, UK Cabinet Office



Getting ahead of risk and impacts

- Your attackers are diverse
- Your technology is complex
- Gaining appropriate insight is hard
- Sources of vulnerability insight must be equally **diverse** and welcome
- "All source intelligence" value that is actionable
- Potential Sources
 - Internal / External Industry / Government / Other Sector / Hacker Communities

SYMPOSIUM



Realistic Objectives?

- Defending against ZeroDays?
- Stopping what is known?

- You can't stop everything
- Must build the teams, processes and connections

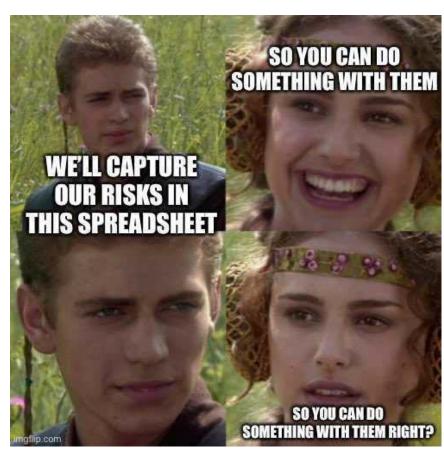
UK Government Cyber Security
Strategy

"For government's critical functions to be significantly hardened to cyber attack by 2025, with all government organisations across the whole public sector being <u>resilient to known</u> <u>vulnerabilities and attack</u> <u>methods</u> no later than 2030."



Vulnerability and Threat Management

- National
- Sectoral
- Organisational
- Is it our risk that changes or our appetite for risk?
- Discovering our vulnerabilities
 - Passive
 - Active
 - Reactive
- Reporting our vulnerabilities...





Impacts - Layers and language

- What's happened?
 - "Our entire engineering tenant has gone down due to a ransomware attack"
 - "We can't process any maintenance paperwork"
 - "Flight ops are disrupted for at least 72hs"
- What are the organizational impacts?
- Who are the stakeholders?



- How are they involved?
- What do they need?

Balance the need for information flow and management, without it turning into a circus...

SYMPOSIUM



People, Process, Culture

- Look after your people during any incident
 - Incident Rhythm and duration
 - Burnout / Overwhelm > Support
- Your processes, teams and orgs should have been exercised...
 - Table-Top Ex / Pen Tests / Multi-Org / CIR?
- The culture and capability you start with is critical...
- Learn from failure, it's the aviation way...





PROTECTING AVIATION FROM CYBER ATTACKS

DOHA, QATAR | 6 - 8 NOVEMBER 2023



THANK YOU

