CRAIG MORRIS

APPLYING LESSONS LEARNED FROM CYBERSECURITY INCIDENTS IN OIL AND GAS TO OTHER CRITICAL INFRASTRUCTURES





















DISCLAIMER

- My personal experiences Stories from the trenches
- No technical details
- Lessons learned to help asset owners prepare for similar incidents



























Test, update BCP and IR plans regularly



Store & maintain plans, docs, images securely



Understand your infrastructure









Identify "Crown Jewels"



Update and test DRP plans based on "Crown Jewels"



Review storage, recovery capabilities



Audits and Single file recovery !=
Testing















Establish support contracts for critical suppliers & systems



Review / renegotiate as needed



No free stuff!

CHANGE THE RULES UP THE GAME

AUSTRALIAN CYBER CONFERENCE 2019









Analogue is still needed.
Whiteboards, Fax etc



Manual processes – exist, tested and approved?



Backup internet connectivity













Manage via Emergency Management Team (with PR & Legal)



Open, transparent, reassuring



Don't let IT handle communications ever ©.









CIRT Leader – Protect the team



Food, transport, accommodation



Rosters, rotations, rest





















Understand network paths and dependencies



Robust O.O.B communications



User communication methods









Don't ignore Change Management



Change
Management 'Lite' –
risks, details,
authorisation



Update processes, builds with changes













Continue to train and rehearse, realistic scenarios



Update plans when business objectives change



Ensure equipment etc available and functioning







Prior Planning Prevents Poor Performance

- Identify and protect "Crown Jewels"
 - Identify and assess critical processes and systems
- Automate response and recovery processes & capabilities
 - Automation and Immutability for infrastructure, backups
- Continuously update and test plans (DRP, IR, BCP)
 - Exercise regularly with realistic scenarios and independent review

- Analog capability, manual processes
 - Identify requirements, identify and verify manual capability

- Look after your team
 - Training, protect them, feed them occasionally









Questions?







Actions

Next Week

- Review and update your existing IR and DRP plans esp. contacts
- Create/Update secure offline copies of plans, tools, images
- Schedule and run a response exercise (IT and Business) TTx

Next 3 Months

- Identify Crown Jewels
- Verify vendor support arrangements
- Review and update your BCP and associated plans (and capabilities)







Thank You