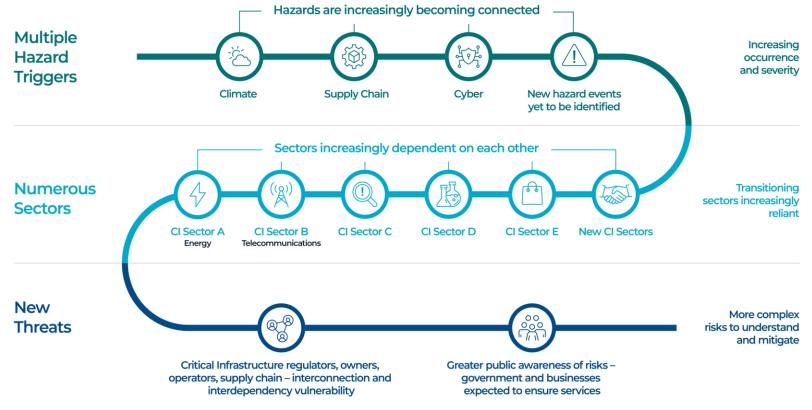
CSIRO

Critical Infrastructure
Protection and Resilience



Dr Marthie Grobler | 30 July 2024

Critical infrastructure challenges

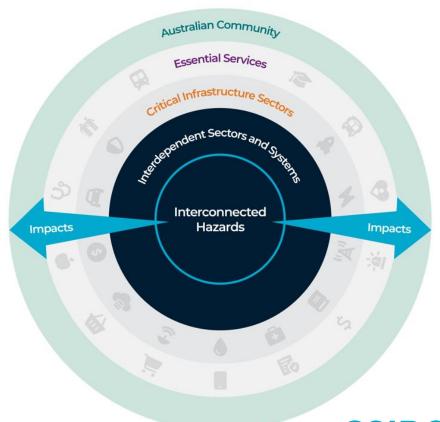




Critical infrastructure protection and resilience

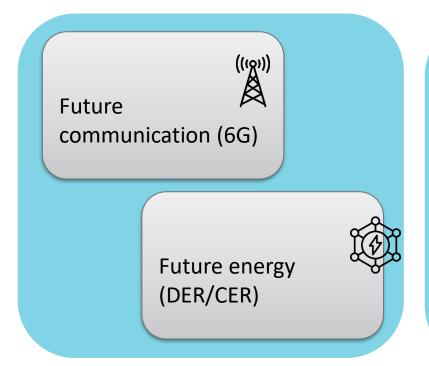
Enhance capability to understand and mitigate:

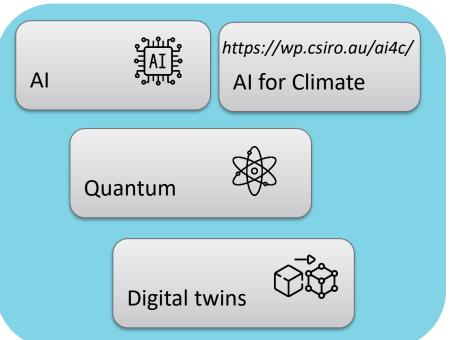
- growing interconnections, interactions and interdependencies between different hazards, systems and sectors
- risks, vulnerabilities and impacts these growing interconnections presents



Critical infrastructure and critical technology

https://research.csiro.au/cybersecurity-quantum-systems/







The Nexus and workshop outcomes

Digital Infrastructure

The foundation of an organisations IT and operation including physical and virtual technologies such as connectivity, cloud, computer, storage, network, applications and Everything as a Service (XaaS) platforms. Provides a basis for data consumption, sharing and other digital tasks.

Interconnected Hazards

Extreme weather events including fire and flood and cyber incidents including attacks by bad actors, criminals and trusted insiders.



Physical Infrastructure

Structures that directly drive the economy of a country including the power grid, transportation networks, banks, highways and mobile towers.

Interdependent Sectors and Systems

11 regulated sectors under the SOCI Act: energy; communications; food and grocery; financial services and markets; defence industry; transport; higher education and research; data storage and processing; healthcare and medical; water; space technology.





CIPR Contact

Marthie Grobler

Mission Lead CSIRO's Critical Infrastructure Protection and Resilience Mission

+61 395 185 953 marthie.grobler@data61.csiro.au ciprmission@csiro.au

https://www.csiro.au/en/about/challenges-missions/Critical-Infrastructure