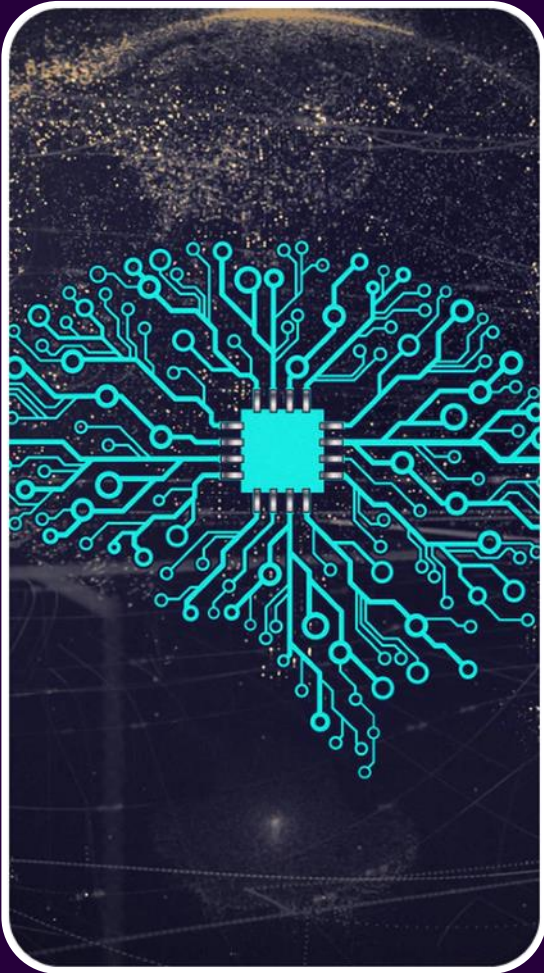Cyber security: Emerging threats and risks with the increased use of virtual platforms to conduct work, and potential vulnerabilities of the entire world.

Professor Tshilidzi Marwala

Cyber Security

Technologies, processes, and practices designed to protect digital platforms from attack, damage, or unauthorized access.
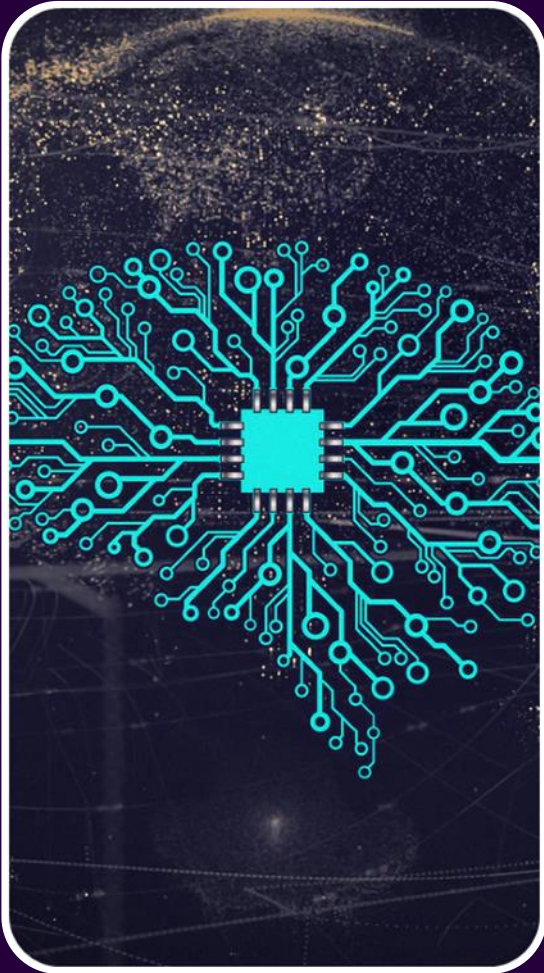
Dan Coats

"A major attack on our cyber systems could shut down our critical infrastructure - financial systems, communications systems, electric grids, power plants, water treatment centers, transportation systems and refineries - that allows us to run our economy."

Cyber Attacks at the Start of the Pandemic

50.1% increase in cyber-attacks and an associated 30,000 cyber-attacks

600% increase in phishing attacks

300,000% increase in cyber threats

18 million malware and phishing emails blocked

Recommendations of the PC4IR

- Invest in human capital
- Create an AI Institute
- Advanced manufacturing
- **Secure and avail data**
- Incentivise future industries
- Build 4IR infrastructures
- Policy and legislation
- Coordination council