**Summary Post**

**Introduction**

My initial post covered the concept of digital transformation, describing the process and the challenges an SME may encounter in becoming one. I also briefly explored digitalisation in the energy sector. This post will summarise our discussion.

**Digital Enterprises**

My initial post described a digital enterprise as embracing technologies such as cloud computing and machine learning to enhance efficiency, and my peers shared this sentiment.

Answering Chowdhury’s question on how an enterprise can mitigate risk, I agree with Beran in that a robust framework is one way to ensure everyone is aware of cybersecurity risk and allows the enterprise to adhere to best practices (Watkins, 2024). There are also more specific measures an enterprise can take, such as multi-factor authentication, which helps reduce the repudiation threat (IBM, 2024). Firewalls can also be used, although thought must be given to their administrative overheads and policies (NCSC, 2023).

Enterprises must also pay due diligence to their development lifecycle and thoroughly test all products to lessen cybersecurity risk. A prominent example is the COVID-19 contact tracing applications, which were rushed through development and presented various security risks to their users (BBC, 2020).

**The Energy Sector**

Each post appeared to agree that the energy sector will benefit from digitalisation. Wei (2018) echoes this, noting that technological advances lead to declining solar power, battery storage, and microgrid costs.

To “future-proof” the sector, energy companies can leverage technologies such as Artificial Intelligence (AI) to predict supply and demand and peak outputs (Rozite, 2023). However, careful consideration must be given to using new technologies. A challenge that stakeholders have mentioned is that the growth of these technologies has outpaced that of regulatory frameworks (UK Parliament, 2021), causing potentially poor risk management and an increased likelihood of attacks.

**Conclusion**

This discussion explored the concept of digital transformation and how it will benefit an enterprise. Digitalisation is not without its challenges, and consideration must be taken with the measures an enterprise can take to mitigate cyber security risk. The energy sector will benefit from a data-driven approach. However, this is one sector where due diligence is an absolute necessity.

**References**

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