

TOP 5 CONSIDERATIONS
for CIOs

Why use blockchain in digital transformation?

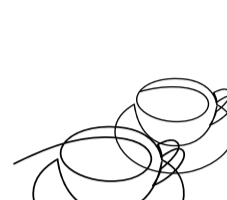
Scalability and Performance

Proof of Work,
miners' might

Proof of Stake,
future is bright

Blockchain networks, especially public ones, can face scalability issues due to the high computational power required for consensus mechanisms like *proof of work*. Businesses must assess whether the blockchain solution can handle large volumes of transactions without compromising performance.

Bottom line: Adopting *proof of stake* reduces the computational power required by allowing validators to create new blocks and validate transactions based on the number of coins they hold and are willing to *stake* as collateral.



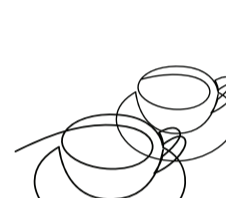
Regulatory Compliance

Blockchain complies,
barriers fall

Trust and transparency
for one and all

Blockchain operates across various jurisdictions, each with its regulatory framework. Companies need to ensure that their blockchain applications comply with relevant laws and regulations, including data privacy (e.g. GDPR), financial regulations and industry-specific standards.

Bottom line: Implement a comprehensive compliance framework that includes legal expertise, continuous monitoring, and adaptive blockchain solutions to ensure adherence to laws and regulations. PwC reports: "73% of executives hold regulatory uncertainty as the biggest barrier to blockchain adoption."



Security and Privacy

Lock down the keys
protect your stake

Secure the data,
no risks to take

While blockchain is inherently secure due to its cryptographic nature, it is not immune to attacks. Organisations must implement robust security measures to protect private keys, ensure data integrity, and prevent unauthorised access. Privacy considerations are also critical, especially in sectors handling sensitive information.

Bottom line: Enact comprehensive security measures, including multi-signature wallets, regular security audits, encryption, and strict control of private keys, ensure data integrity, and prevent unauthorised access. Ponemon Institute: "60% of companies suffer a breach due to poor management of privileged access."



After 30+ years of experience...

“ In the race to innovate, leveraging technology like blockchain is crucial. However, success lies not just in adoption, but in meticulous implementation and strategic investment. Doing it right ensures trillions of dollars of goods and services are secure, scalable and supporting modern commerce. ”

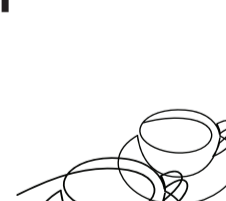
Integration with Existing Systems

Bridge the past with
blockchain's might

Legacy systems
done right

Blockchain should seamlessly integrate with existing IT infrastructure and systems to maximise its benefits. This includes interoperability with legacy systems, data synchronisation and its ability working alongside other emerging technologies like IoT and AI.

Bottom line: Implement middleware solutions and APIs that facilitate seamless integration between blockchain technology and existing IT systems. Ensure interoperability through standardised protocols and employ data synchronisation techniques to maintain consistency across platforms. Accenture cites "84% of executives agreeing that blockchain integration with legacy systems is critical for realising its full potential."



Cost and Resource Allocation

Blockchain's worth the cost,
not for the weak

Invest in the future,
see the peak

Implementing blockchain can be resource-intensive and costly, involving expenses related to infrastructure, development, maintenance, and energy consumption. Organisations must conduct a thorough cost-benefit analysis to determine the financial viability and allocate resources effectively.

Bottom line: Gartner reports that "by 2023, blockchain technologies will support the global movement and tracking of \$2T of goods and services annually, but 90% of current enterprise blockchain platform implementations will require replacement within 18 months to remain competitive, secure, and avoid obsolescence."



Like to delve into, dissect or draw on my experience over a coffee — let's set up a time...

