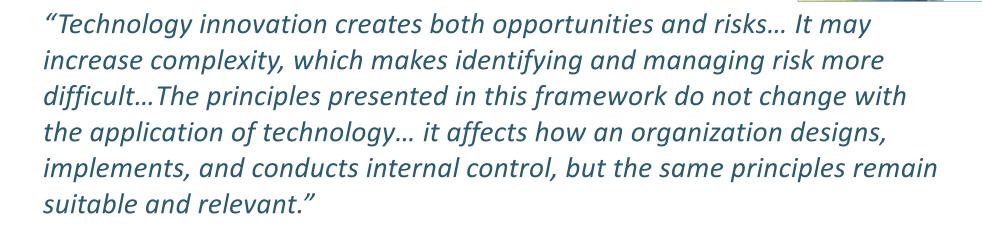




Principle 9: The Organization Assesses Change...

• External, Internal, Business Model, Leadership



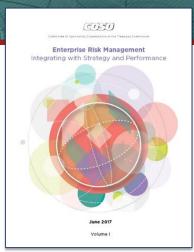
(E1)-31)

Internal Control - Integrated Framework



Principle 15: Assesses Substantial Change

"When innovation is introduced, risk responses and management actions will likely need to be modified"



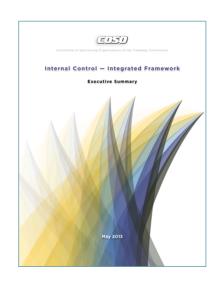
Blockchain Internal Control Issues

Issues

- NEW technology, processes and controls
- Security, availability, privacy
- Lack of standards
- De-centralized
- Irreversible, unalterable
- MORE...

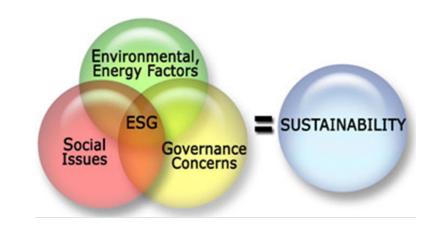
Positives

- Strong Audit Trail
- Immutability
- Faster
- Automated controls, execution
- Irreversible, unalterable
- Reduces counterfeiting
- MORE...



Definition of Sustainability and ESG Factors

"Development that meets the needs of the present without compromising the ability of future generations to meet their own needs."



Blockchain Sustainability Issues



ISSUES

- Energy use and source
- Data security and privacy
- Availability, continuity
- Adoption time horizon and inclusion
- MORE...

POSITIVES

- Lower cost?
- Faster settlement, verification
- Validation of energy source
- Other supply chain sourcing validations and increased visibility, traceability
- Industry collaboration
- MORE...