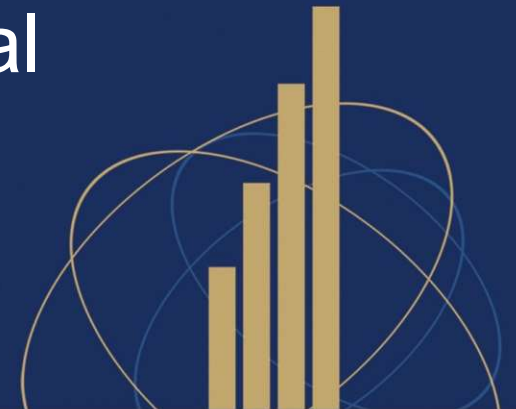




Emerging Risks Due to Technological Advancements.

Presented by: Nenekazi Gana, CIA

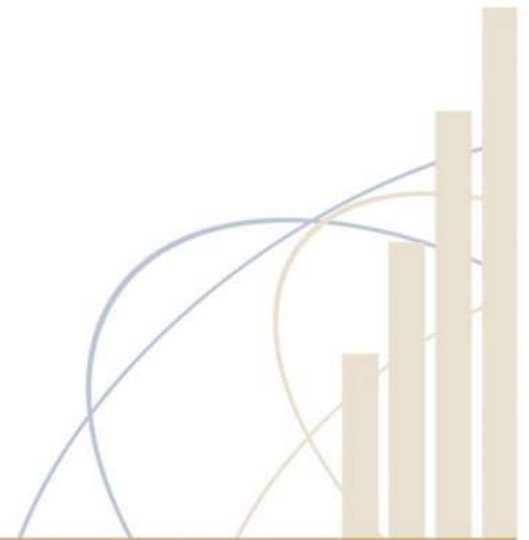


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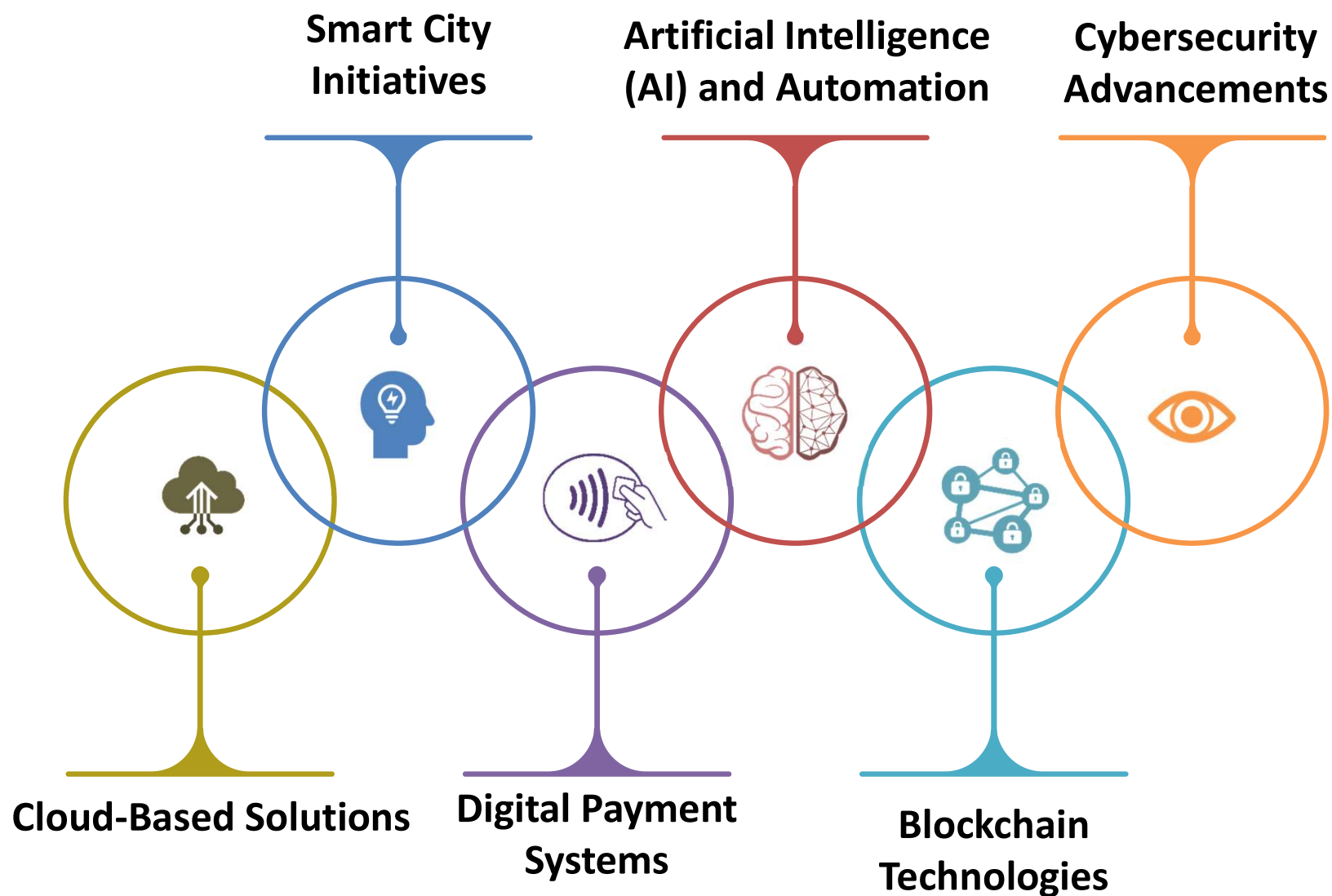
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1. Understanding Technological Advancements in Municipalities
2. Emerging Risks from Technological Advancements
3. Case Studies and Lessons Learned
4. Risk Management Strategies for Municipalities
5. Conclusion
6. Q&A and Discussion



1. Understanding Technical Advancements in Municipalities



2. Emerging Risks from Technological Advancements

**Technology dependency and
System failures**

**Cybersecurity and Data
Privacy Risks**

**Integration and
Interoperability
Risks**

**Privacy and
Compliance Risks**

3. Case Studies and Lessons Leant



Case Study 1: Ransomware Attack on City of Johannesburg (2019)

Lessons Learnt:

- Regulate updates of software systems.
- Create strong cybersecurity framework.



Case Study 2: Smart City Project in Cape Town

Lessons Learnt:

- Necessitate clear and transparent data governance policies.
- Create public engagement when it comes to data collection and its usage.

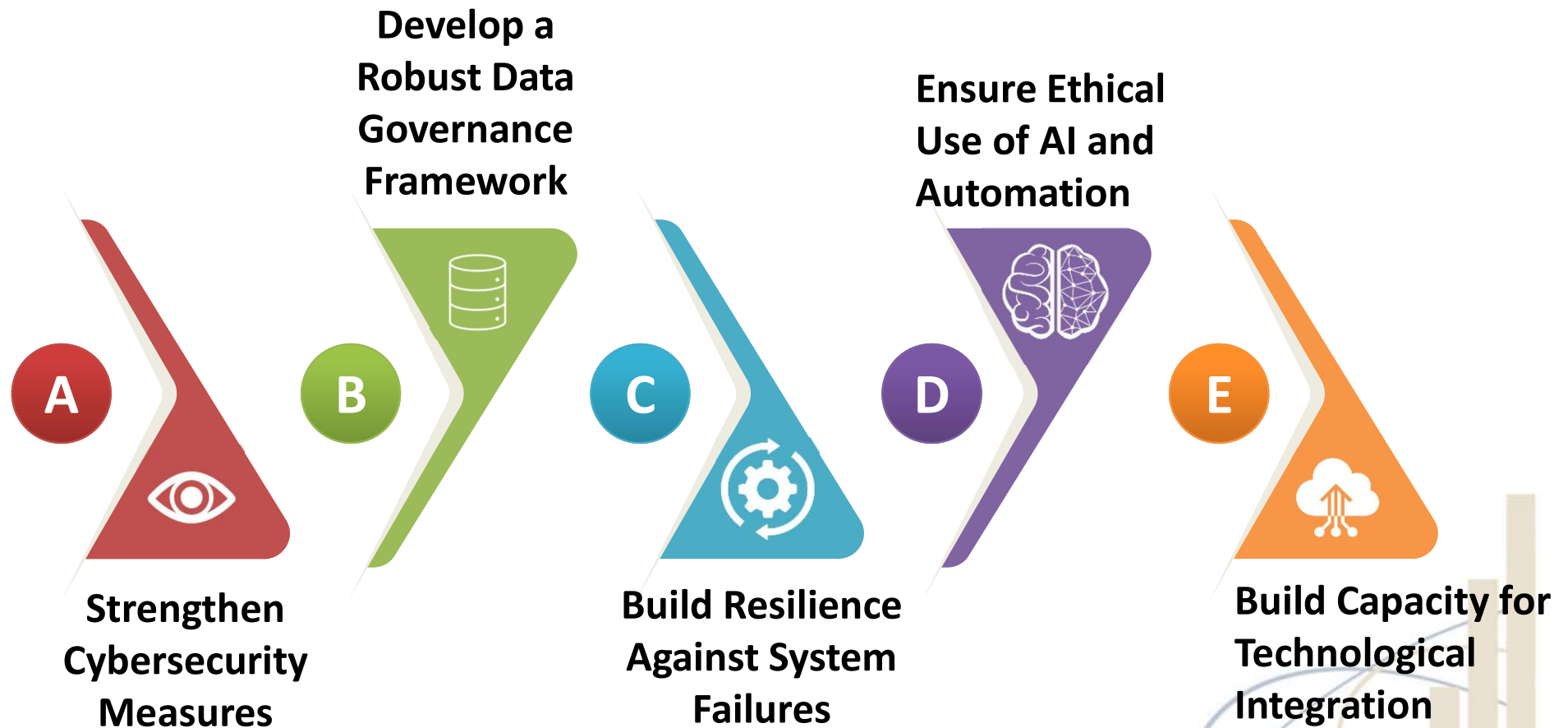


Case Study 3: E-Government Payment Systems

Lessons Learnt:

- Create strong backup systems and contingencies.
- Create strong encryption and security measures.

4. Risk Management Strategies for Municipalities



5. Conclusion

While technological advancements offer municipalities significant benefits, they also present new and complex risks.

Auditors and risk officers are responsible to stay ahead of these risks, proactively identify emerging threats, and implement effective mitigation strategies.



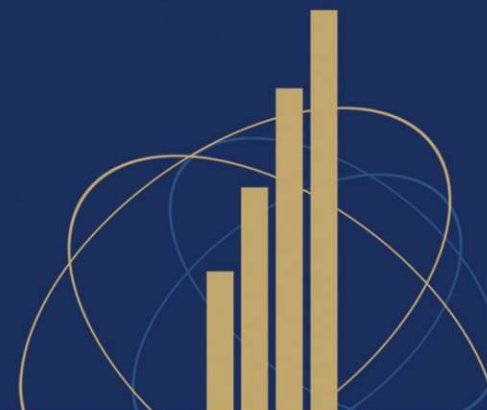
6. Q&A and Discussions





Thank You!

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