

Session 2: Accelerating Smart Sustainable Cities with Frontier Technologies and International Standards.

Evolution towards Smart Sustainable Cities

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Why Smart Sustainable Cities in Africa?

- Among the fast growing cities are in Africa (rapid urbanization)
- Youngest population
- High level of rural population
- Low level of development of infrastructure
- High Rural to Urban migration

Role of Technologies in SSC

Building blocks of Smart Sustainable Cities

- ICT infrastructure towards 5G
- IoTs
- AI and Machine Learning
- Big data

Where does it all come together ?

- Limited infrastructure provides an opportunity to leap frog ..
 - Previous examples of leapfrogging ..
- Young population provides an opportunity for a learning society ..
- Innovative solutions provide unique opportunities for specific solutions for our continent
- Setting innovative solutions which will link the rapid urbanization with rural development to allow sustainability

The importance of KPIs

- KPIs provide a mechanism to measure the readiness of a City towards becoming SSC
- The KPIs of SSCs are split in several dimensions
 - Productivity
 - Environmental Sustainability
 - Physical Infrastructure
 - Quality of life
 - Equity and Social Inclusion
- In the stage of rapid urbanization these KPIs need to be included in the designs and plans of the Cities' Developments



Role of Political Leadership?

- Central Government and Cities and Municipal Administrations
 - Relevant Policies to allow Smart Sustainable Cities to Grow in the jurisdictions
 - Develop Strategies relevant to use of ICTs in making cities smarter and more sustainable
 - Engage relevant stakeholders including civil society organizations in ensuring that society is aligned in ensuring the cities are more sustainable
 - Use evidence based decision making in evaluation and ranking relevant KPIs for assessment of ICT contribution in the development of SSCs
 - Typical Examples Smart Zanzibar vs Smart Dodoma

Smart Sustainable city is a living organism

- How does it grow ?
- How does it interlink with other parts ?
 - Rural – urban linkages
 - Societal linkages

Conclusion

- Smart Sustainable Cities provide a route to reach the SDGs
- The unique advantage of using standards to develop unique solutions to unique problems facing cities in Africa
- Africa should carefully take note of evolving settlements which will be the future mega cities to ensure that they comply to the KPIs of SSC
- With the rapidly increasing urban population in Africa the SSC standards are more relevant than ever.