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

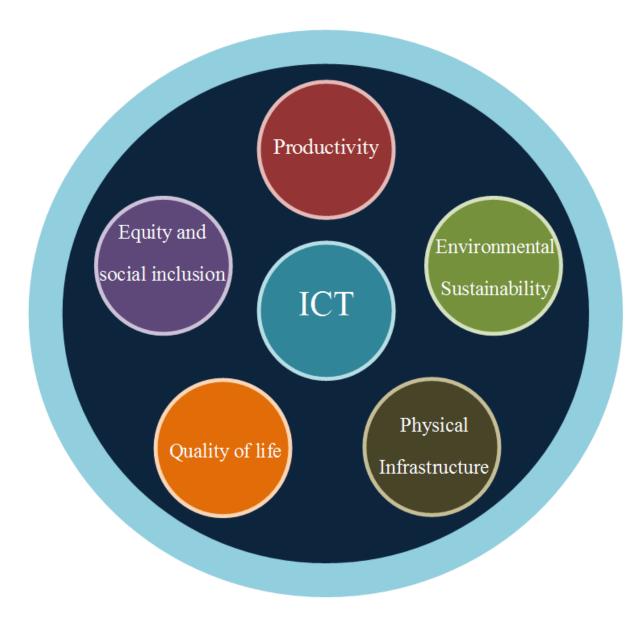
- ICT infrastructure towards 5G
- IoTs
- Al and Machine Learning
- Big data

## 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.