



# KwaDukuza Municipality

SCENARIO PLANNING & URBAN LEDS HIGHLIGHTS PRESENTED at  
ENERGY EFFICIENCY IN SUB-SAHARAN AFRICAN CITIES, 26<sup>TH</sup> & 27<sup>TH</sup>  
October 2015 , NAIROBI, BY MR SIKHUMBUZO HLONGWANE



# KwaDukuza background

- Its a secondary city outside Ethekewini Metro,
- 20 minutes away from King Shaka International Airport,
- Its sandwiched between biggest ports/harbours in Africa (Durban and Richards Bay),
- High Economic Growth Rate,

# KwaDukuza background

- Home of the first African Nobel Peace Price Recipient – Chief Albert Luthuli,
- Home of one of the Greatest African King and Zulu Nation builder , King Shaka,
- Key Economic Sectors: Agriculture , Services, Tourism and Manufacturing,
- 112 coastal line,
- Home of the best African Lifestyle Residential Estates ( Zimbali , Brentenwood and Simbithi coastal estates),
- Population as per 2011 Census - 272 850 ,

# Planning Function

- Local government is a town planning authority in South Africa as per the constitution,
- The municipality undertakes the following type of planning:
  - (1) Urban/town planning,
  - (2) Forward planning,
  - (3) Strategic planning,
- Enabling legislations: Constitution, SPLUMA, Municipal Systems Act, and National Building Regulations Act,

# 1. Strategic Intervention: Development of KDM Low Carbon Emission Strategy

- KwaDukuza Municipality Climate Change Awareness Survey: The aim was to assess the level of awareness of climate change by both staff and councillors.
- KwaDukuza LM – undertook a multi-stakeholders process of developing a long-term low carbon emission strategy (Vision 2030)
- Scenario Planning Process was a driver of developing this vision,
- Implementation planning process: **6 transition areas & transition goals were identified,**
- Transition researchers built on this work & made new recommendations,

# Process followed to develop LED scenarios

- A facilitator of the local stakeholder was appointed,
- A selected representative of key stakeholders were identified and participated in our Imbizo,
- Two imbizo were held with similar group of stakeholders,
- Four scenarios were developed,
- A better option was developed and adopted by all stakeholders.

# KWADUKUZA 2030

## SCENARIOS

**Positive Shared  
Mindset towards Low  
Carbon Actions**

- Parallel world- good institutional set-up but lack of action
- Talk Shop
- Inequality Remains
- Non Compliant 20 % cause 80% of the Problem
- Technically resourceful/efficient

**Bad monitoring,  
regulation &  
incentives**

**Umuzi  
Wezinkinga  
(House of  
Frustration)**

**Umuzi  
wengcebo  
(House of  
Wealth)**

- Collective Thinking & Partnership : Ubuntu
- indigenous knowledge systems whilst Embracing green technology
- Effective Growth Management
- Green Economy
- Public Transport
- Innovation
- Biodiversity

**Great monitoring,  
regulation &  
incentives**

**Umuzi  
Wobubha  
(House of  
Poverty)**

**Umuzi  
Wenxushun  
xushu  
(House of  
conflict)**

- Selfish, self-centered, pessimistic, careless, greedy values
- lack of accountability & responsibility,
- destructive non-compliant, reckless behaviour
- Chaotic Unplanned Development
- Old Economy
- Motor Car is King

**Negative Fragmented  
Mindset towards Low  
Carbon Actions**

- “Don’t give a damn” attitude
- arrogance
- Weak leadership
- Corruption
- Mired in legal disputes
- No concern for future generations
- Rigid in beliefs
- illegal activities
- Government / Business / Community tensions

## **Municipal vision: Low-carbon vision**

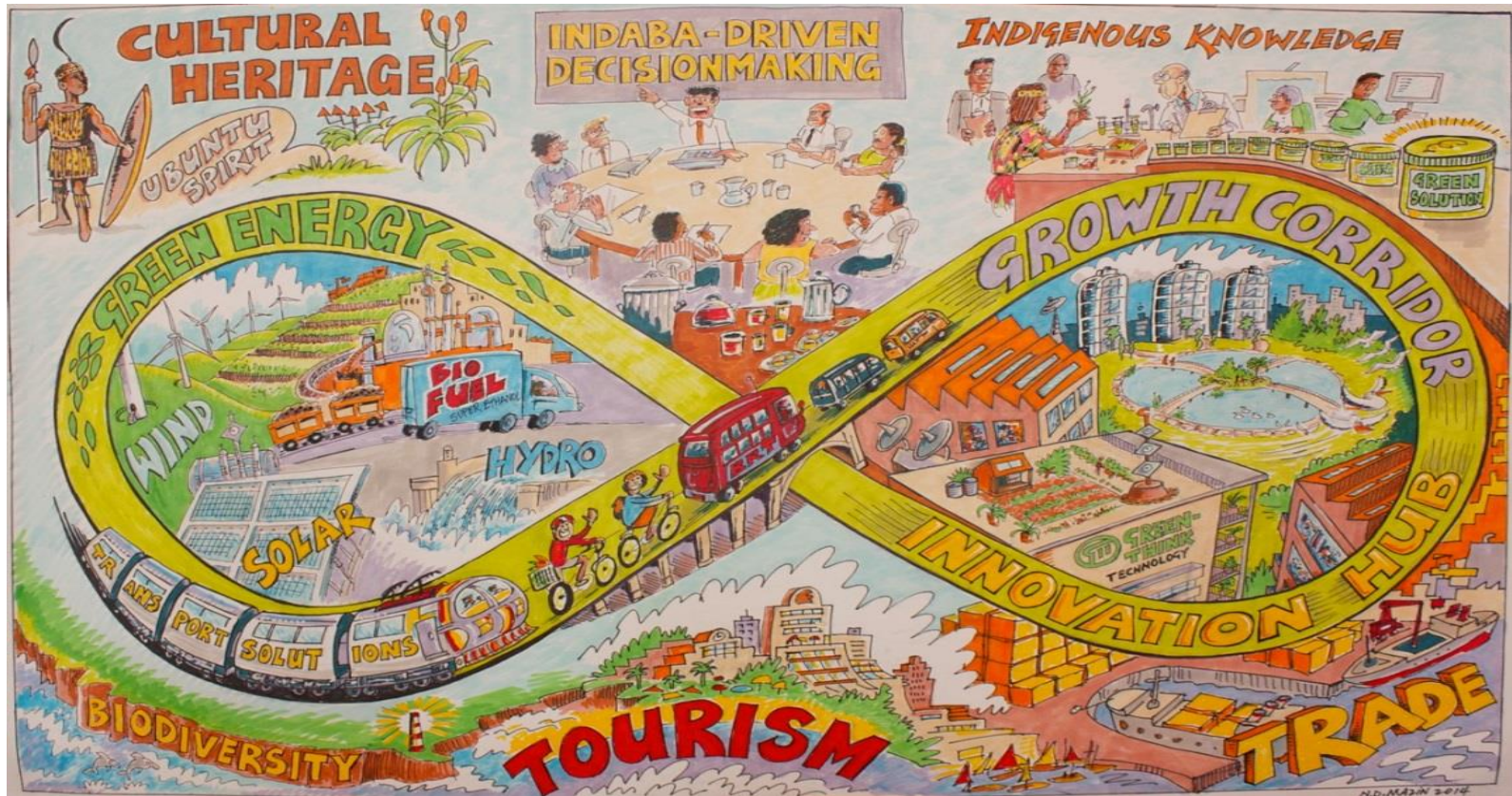
**The low-carbon vision complements the overall municipal vision by describing the kind of city KwaDukuza can become:**

By 2030 Kwadukuza will have successfully managed its transition to low carbon development and will be:

- A distinctive urban launch pad for the Durban / Richards Bay Corridor
- A job-rich green manufacturing, renewable energy and logistics hub
- A model of integrated resource management and climate change adaptation
- A Shaka-inspired heartland and thriving tourism destination



# Low-carbon vision



# Strategic Objectives and flagship strategies

To position KwaDukuza as a green economic and tourism hub; underpinned by local skills and indigenous knowledge

Promote the diversification and greening of the local tourism industry

Support the development of local green industries and green job creation

To increase energy efficiency, promote renewable energy and enhance access to safe, reliable and affordable energy for all

Support initiatives in the sugar cane industry for the production of renewable energy

Reduce energy usage & explore options for renewable energy in municipal operations

Support and incentivise community efforts to introduce energy efficiency and renewable energy improvements

# Strategic Objectives and flagship strategies

To promote a compact, resource and energy efficient built environment which enables sustainable mobility choices for all

Implement priority public transportation and non-motorised transportation infrastructure

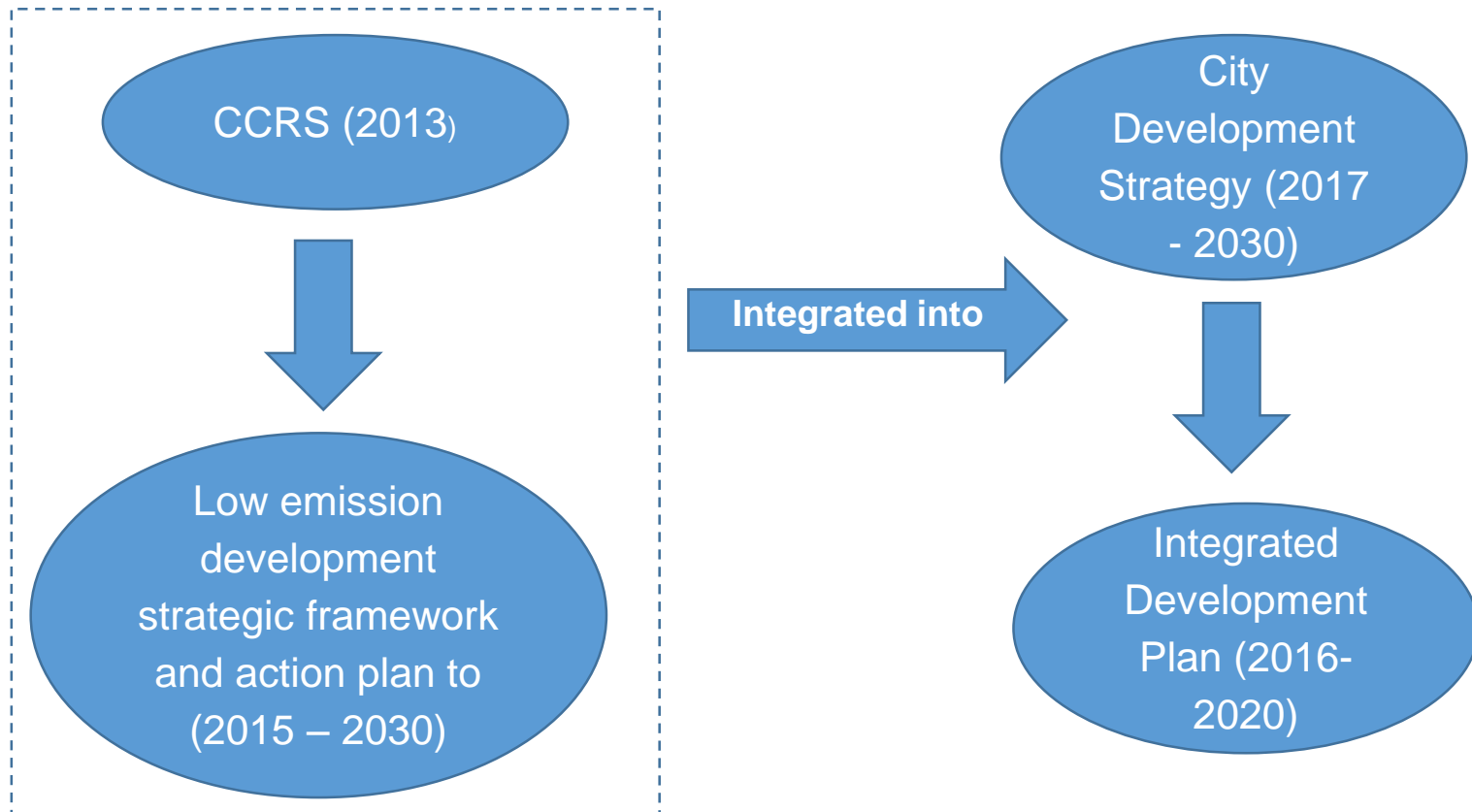
Incentivise and enforce resource efficient & climate resilient human settlement patterns

To protect & enhance local natural assets, especially water supply and biodiversity, to support local well-being and develop climate resilience

Promote responsible use of and rehabilitate local resources (especially water & waste) in urban and rural areas

Protect biodiversity and raise the profile of ecosystem services in municipal planning

# It complements other strategies of Council & is aligned with Municipal objectives



# 3. Energy Efficient Challenge and Progress

- Urban LEDS has assisted to change the perception of the benefits of energy efficient and renewable energy in our municipality,
- Council has accepted that energy efficient is not a major threats to our revenue,
- Electricity Department management – now embraces the energy efficient,
- 140 solar powered and LED street lights has been installed,
- An application has been send to the National Department of Energy to fund the next phase of change the streetlights and robots within the municipality,



## 4. Energy Master Plan Review

- Pre-Urban LEDS until now the council adopted Energy Master Plan perpetuated the old energy solutions,
- No alternative energy or renewable energy were part of the project,
- The current energy master plan review process will incorporate alternative source of energy and energy efficient programme,

# 5. KDM - GREEN BUILDINGS GUIDELINES POLICY

- South Africa has national standards on energy efficiency and water conservation,
- Municipalities as the implementers and custodian of National Building Regulations Act have a responsibility of implementing the standards,
- KDM Green Buildings Guideline Policy - has been developed and will be approved by council before end of November 2015.
- The building directorate staff have been the part of the process and ready to implement the policy.

### 3. Other projects done as part of Urban LEDS in KwaDukuza

- Green House Gas Inventory development and review,
- Non-electric insulated heating bag ( Wonder bag),
- Household Energy Efficient Kit Project,
- National Business Initiative partnership – free energy audit for business,



# What has changed since this project?

- Development planning approval – takes into account the applicable standards on energy efficiency and water conservation,
- Improved public-private partnerships/ stakeholder engagement,
- Institutionalisation of Climate Change and Energy Efficiency within the municipality,
- City Development Strategy – has taken into account the Scenario planning outcome,
- Projects has been identified and budget obtained (Streetlights solar powered)

# What has changed since this programme?

- Green offices – as outcome of staff awareness (paperless administration),
- Better understanding by local business that climate change is part of their bottom-line,
- Increase community participation on climate change response related projects,
- Better acceptance by the municipal leadership that energy efficiency/renewable energy is not a threat to its main revenue source,
- Active member of ICLEI-AFRICA,

# Opportunities

- Technical assistance to package project for various funding instruments existing in South Africa and international donor funding agencies,
- Establishment of Energy Office,
- Technical assistance – for developing a transport plan that will be linked to the CDS that is underdevelopment,

# Opportunities

- Blended funding opportunity for the Co-Generation Project in KwaDukuza led by the private sector partner,
- Green procurement capacity building for staff,
- Capacity building of staff,
- Energy audit of all municipal and government buildings and prepare business plan,
- Prepare a business/funding proposal of roll-out of household energy kits.

# Lesson's learnt

- Change management is critical for the successful implementation of any low carbon interventions,
- Political will, leadership and support – is an enabler for successful implementation of new processes,
- Local-based solutions are key to ownership of any outcome,
- Recognition of indigenous knowledge is critical for the buy-in and acceptance of low carbon based interventions,



**THANK YOU...**

**Sikhumbuzo Hlongwane**

**[sikhumbuzoh@kwadukuza.gov.za](mailto:sikhumbuzoh@kwadukuza.gov.za)**

