“Achieving the Vision”  
Geo-statistical integration addressing South Africa’s Developmental Agenda

“Accelerating City Transformation for Inclusion, Growth & Sustainability  
... the role of the evidence-base (geospatial information and statistics)  
... how are South African Cities doing it ...”

Kunming Forum  
Theme (Cities of the Future: SMART, RESILIENT, SUSTAINABLE)  
Session #3 (Smart and Resilient Cities: Leveraging Integrative Information Systems)  
Kunming, China, May 2017

Sharthi Laldaparsad  
Statistics South Africa  
Policy Research & Analysis

Smart cities - can do the basics well (good service delivery, governance, public participation, financial management); grow inclusively; create jobs, foster social cohesion, bridge the digital divide, etc.

South African Cities (very apparent from the data)

- Metropolitan areas are increasing their share of the South African population from 36% in 2011 to 40% in 2016
- Drivers of Local and National development:
  - GVA (57%)
  - Formal Employment (50%)
  - Labour Force (50%)
  - Population (39%)
  - Land Area (2%)
Aligning to Global, National & Local policies
... how are South African Cities doing it...

Alignment of global, national & local developmental objectives
Grow the economy
Create sustainable jobs
Rural development
Reversing spatial effects of apartheid

Quality education,
healthcare, etc.
Grow the economy
Create sustainable jobs

Improve economic infrastructure
Rural development
Reversing spatial effects of apartheid

Access (to social & economic services; equal opportunities)
Growth (Inclusive, sustainable growth)

Governance
Spatial Transformation (new spatial forms in settlements, transport, social and economic areas)


• Prioritises government programmes across the spheres of Government.
• Reflects the commitments made in the election manifesto of the governing party.
• Overarching strategic themes (radical economic transformation; improving service delivery)

State of the Nation Address
• 2016 Nine Point Plan (ignite growth & create jobs)

Strategic Infrastructure Projects (SIPs)
• Catalytic projects to fast track growth & development

Back to Basics
Provincial Growth & Development Strategy, State of the Province Address

Integrated Development Plans (IDPs) for Cities (& local authorities) (5 year plan with annual reviews)
It’s the Real-Deal (Actions on the ground)
Link with long-term development planning/ envisioning/ imagining
Partnersing (begins at home - Intergovernmental Coordination – vertical & horizontal)

Cities have to report on about 2572 indicators; about 18467 data items!

Towards better comprehension for inclusion, growth & sustainability, the role of geospatial information and statistics... how are South African Cities doing it...

Planning the Future - modelling exercises (economic, social, environmental transformation)

JoBurg’s Spatial Vision, SDF 2040
(Reverse of previous)
(Compact, Inclusive, Connected, Resilient, Generative)

Mapping City’s Deprivation Scores
Situational analysis
Transformational Responses

JoBurg’s Spatial Vision, SDF 2040
(Reverse of previous)
(Compact, Inclusive, Connected, Resilient, Generative)

Planning the Future - modelling exercises (economic, social, environmental transformation)
Towards better comprehension for inclusion, growth & sustainability, the role of geospatial information and statistics. ... how are South African Cities doing it ...
Towards better comprehension for inclusion, growth & sustainability, the role of geospatial information and statistics … how are South African Cities doing it …

Situational analysis
Growing analytical needs across space and time for transformation

“By 2030, eThekwini will enjoy the reputation of being Africa's most caring and liveable city, where all citizens live in harmony”

Transformational Responses
Stimulating the economy spatially - economic & mixed use catalyst

Towards better comprehension for inclusion, growth & sustainability, the role of geospatial information and statistics … how are South African Cities doing it …

Growing analytical needs across space and time for transformation

By 2030, eThekwini will enjoy the reputation of being Africa's most caring and liveable city, where all citizens live in harmony.
Towards better comprehension for inclusion, growth & sustainability, 
the role of geospatial information and statistics 
... how are South African Cities doing it ...

City Barometers
City Dashboards
City Observatories

Growing analytical needs across space and time for transformation

Concluding Remarks ...

- SA metros progressively embracing the New Urban Agenda of urban development, globalisation and national development. Also committed to SDGs, in particular Goal 11 on Sustainable cities. The Integrated Urban Development Framework (IUDF) is a prominent policy intervention by Government in the urban space (access, growth, governance & spatial transformation). SPLUMA requires SDFs for the spheres of Government.

- The need for standardised data (both geospatial & statistical) across cities, nationally and globally. (Intergovernmental reporting) (World Council on City Data (WCCD), ISO 37120 certified Cities).

- Serious lack of demographic, social and economic data for local analysis in non-census years. Survey data not able to provide sub-metro information. Results in the lack of comprehensive quantitative and qualitative analysis. Local plans become weak. Requires innovative thinking around (disaggregated) data & its methods.

- Core administrative sources (Population register; Business register; Address-cadastral/ Deeds-landuse/ valuation register) (geo-embedded) (coordination thro a National Statistical System) (legislative reform for access, linking, dissemination, etc.)


- Cities need to PLAN, IMPLEMENT, MONITOR, EVALUATE, Go Back to PLAN. (Past, Present, Future analysis) (data & models for future growth & development) (more complex data and skill set)

- The NSO (in this case Stats SA) must ensure that planning, monitoring and evaluation is informed by strong evidence base and planning tools.

Thank you (sharthil@statssa.gov.za)
References

- NSPDR, National Spatial Planning Data Repository, Presentation to ICT Steering Committee January 2017.