

**“Geographic Databases” from population
censuses to fundamental framework data for
statistics to National Development
Planning, Monitoring and Evaluating,
South Africa**

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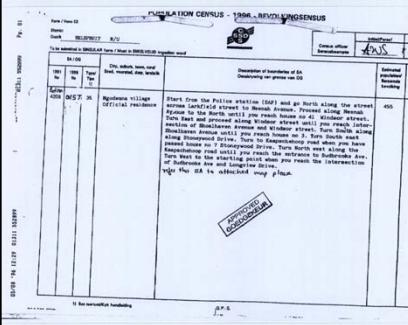
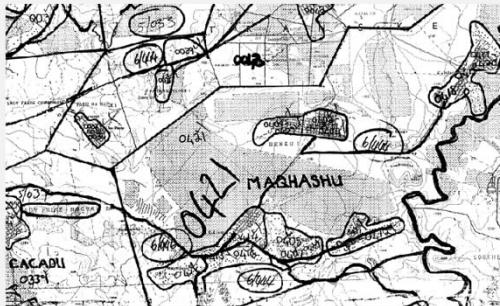
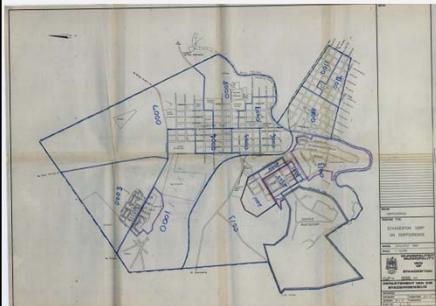
Contents . . .

- Our experience. Census 1996, 2001, 2011.
- SA Spatial Data Infrastructure (SASDI)
- SA Developmental Agenda
- Spatial Analysis focus
- Concluding remarks

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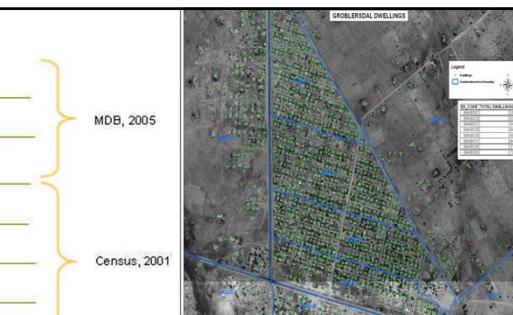
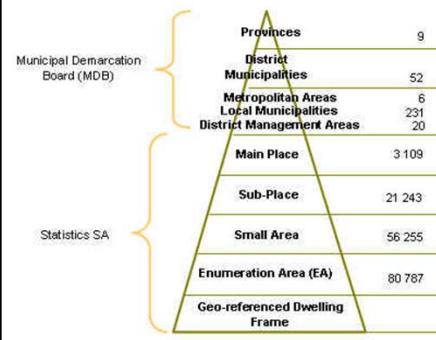


1996 Census laid the foundation for many things...

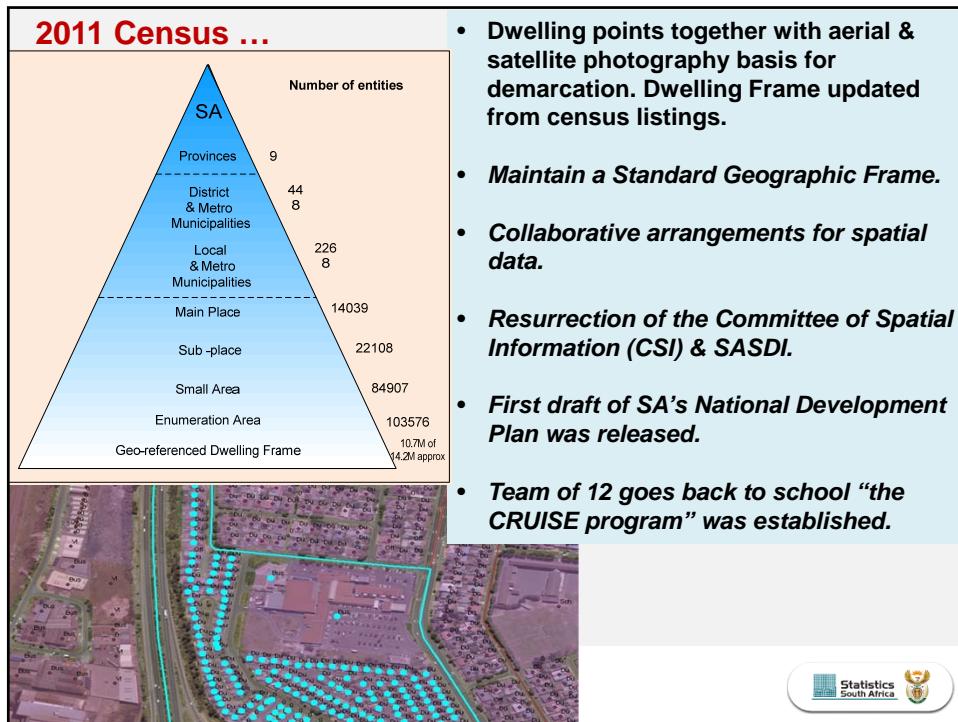


- 1st set of digital EAs for SA. 1st spatial set of places. SuperCross/ Map.
- 4 Government Departments working collaboratively towards common goal (Stats SA, Rural Development, Independent Electoral Commission, Municipal Demarcation Board)
- Key fundamental principles
 - Collaborative maintenance of fundamental geographic data sets
 - Geo-statistical building block

2001 Census ...



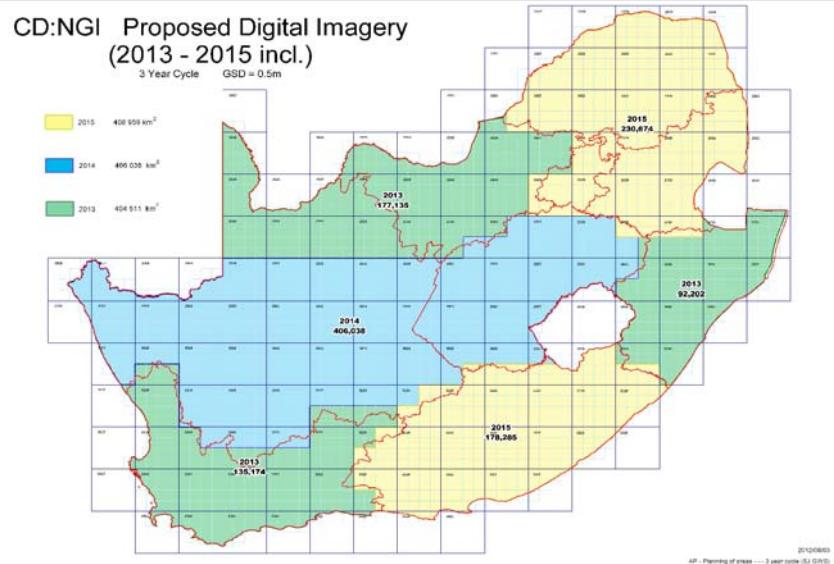
- From census-centric to corporate centric – Geography Division was established.
- Maintain a Standard Geographic Frame.
- Collaborative arrangements for spatial data.
- Addressing the un-addressed. The start of the Dwelling Frame. Aggressive data collection process from Cities, Municipalities, other Government Departments, private sector purchase.



Collaborative arrangements

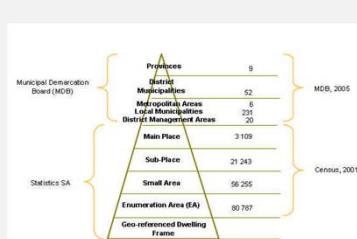
National Government Departments	Data sets	Private Sector	Parastat	
CDNGI (Rural Development)	Imagery (2008-2011), topo sheets/ vectors, place names			
Dept of Human Settlement	Informal Settlements, RDP housing			
Dept of Education	School points			
Dept of Health	Hospitals, clinics			
Dept of Rural Development: Surveyor General	National Cadastre			
Dept of Rural Development: Spatial planning	Tribal Boundaries			
Dept of Water Affairs	Villages (rural comm and reservoirs)			
Dept Of Local Government and Traditional Affairs - KZN(Current Cogta)	Tribal Boundaries, w			
MDB	Municipal Boundaries and Provincial boun			
IEC	Wards and Voting st data where voting t; AFRIGIS			
South African Police	Police Stations, police attributes (National Excel format			
SanParks	Private nature reser national parks, prov			
Different Metros	Imagery and vector zones, cadastre	Eskom	Geospace and other imagery service providers	Imagery
			Street Centrelines, Points of Interest, Suburb Boundaries, Town Boundaries, Postal Codes, Postal Code Regions, Sectional Schemes, Proclaimed Town Boundaries, Built Up Coverage, Gated Communities	R. 500 000 for a three year maintanance cost.
			Spot (Spatial)Building Count points and polygon data	2009/ 2010
				Data exchange collaboration in place
				Gov data exchange

Collaborative arrangements for spatial data continues ...



- Photography good source of information, especially where there is no data

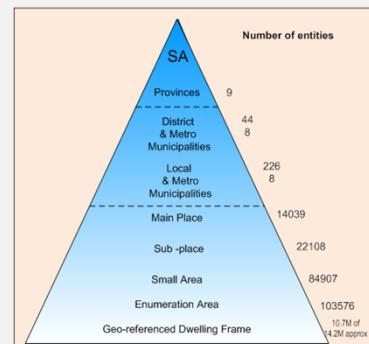
Our experience. What has stood the test of time? ...



Standard Geographic Frame
(consistent & stable over time)

Geo-statistical Building Block against
which information can be collected &
rolled up for dissemination

**Updated & reliable fundamental
sampling frames: Dwelling/ Address
Frames; the Business Frame**



**Built a dependency on other data
suppliers/ producers. We want quality
data from them. Dependency on a
functioning SASDI. Therefore statistics
supports the SASDI development.**

Resurrection of the Committee for Spatial Information; Establishment of SASDI ...

- SDI Act was promulgated in 2003.
- *Main focus to establish South African Spatial Data Infrastructure (SASDI). Promoting Availability, Accessibility, Usability, Relevance, Reliability – for spatial information.*
- *1st meeting of Committee for Spatial Information (CSI) June 2010.*
- *CSI Sub-Committees established. Work of sub-committees began April 2011. Stats SA was assigned responsibility for the Data Sub-committee.*
- *Achievements: Defining core spatial data sets & the list of data custodians; define & develop the metadata catalogue; SASDI Website up and running although not a fully-fledged geo-portal as yet; policies, guidelines & procedures drafted.*
- *Busy with South African Geo-Information Management Strategy:*
 - *Embedding spatial data within the country's Developmental Agenda. Giving it relevance. Promoting its usability.*
 - *Strategically locating the function of spatial data coordination; leadership*



CRUISE Programme ...

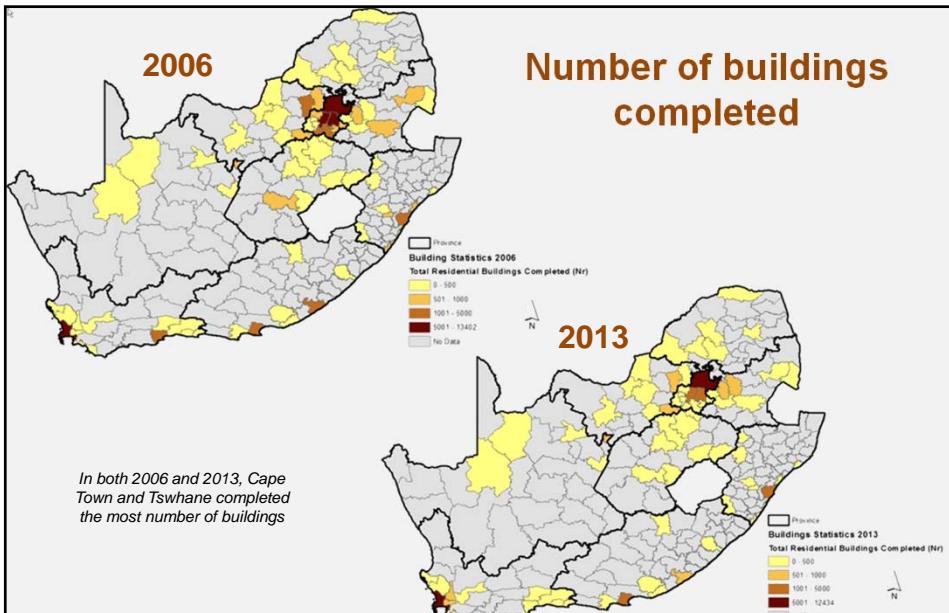
- **Usability of data. The STORY about our country. Builds on our motto**
- The South Africa I know. The HOME I understand.
- **Builds geo-spatial statistical thinking. Expands the depth & breadth of our information needs.**
- **1 year intensive Masters Programme. Produces journal articles, dealing with critical aspects of our developmental agenda using spatial and statistical data like transforming spatial distortions in settlement planning; the impact of corridor development; municipal service delivery, etc.**

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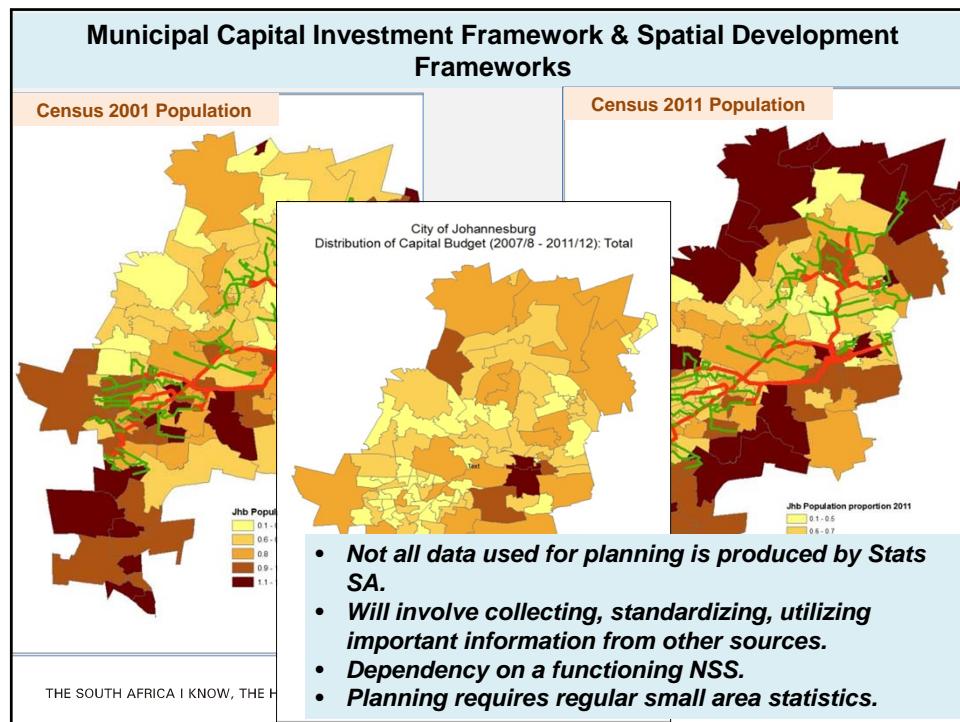
In both 2006 and 2013, Cape Town and Tshwane completed the most number of buildings

Number of buildings completed



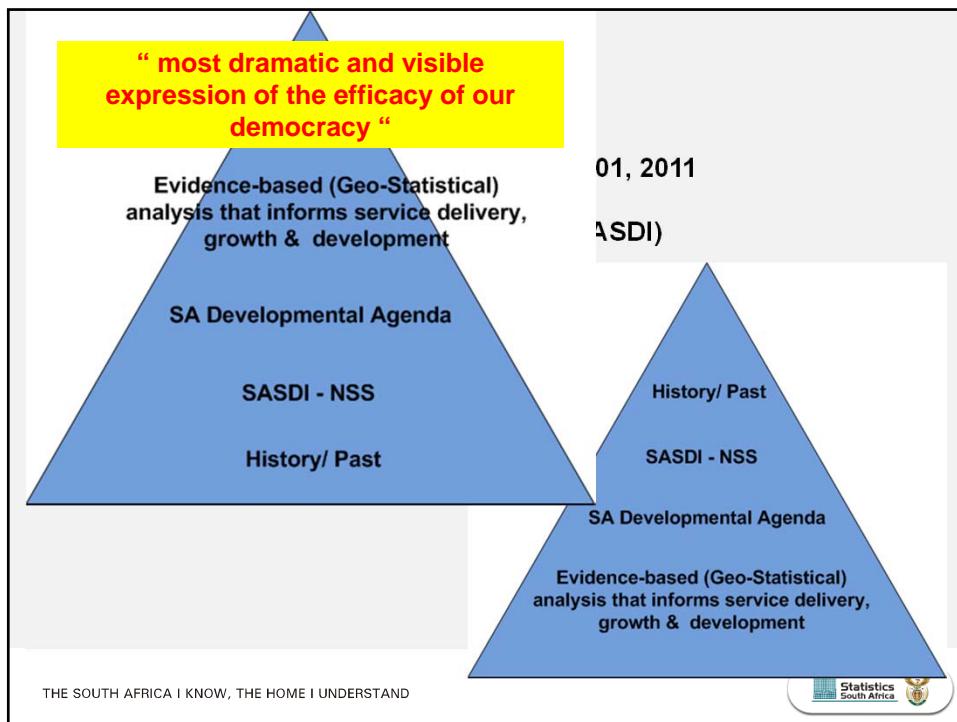
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Concluding remarks ...

- **SASDI is not at a mature stage. Still difficulties with cooperation, data integration & harmonization, funding and leadership.**
- **Relevance with respect to SA Developmental Agenda for both the GEO & the STATISTICS needs re-strategising to collect, structure & present for Government's priorities.**
- **Censuses, surveys or statistical data in general, requires geography, the smaller (detail) the geography the better for planning. Statistics will benefit from a functioning SASDI & SASDI from statistics.**
- **Geo-statistical integration important. Stakeholders that collect statistics (like local municipalities, education, health, policing, and other sector Departments) must maintain the links with the smallest (lowest) geography – can be rolled up to place, ward, municipality, province or any other geography.**
- **Geo-statistical building block against which we all can collect data.**
- **Successful implementation of the National Statistical System (NSS)(part of the Statistics Act) & SASDI is important for South Africa's growth and development.**



Thank U

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