

Keeping Pace with Development: Challenges for National Statistics Systems

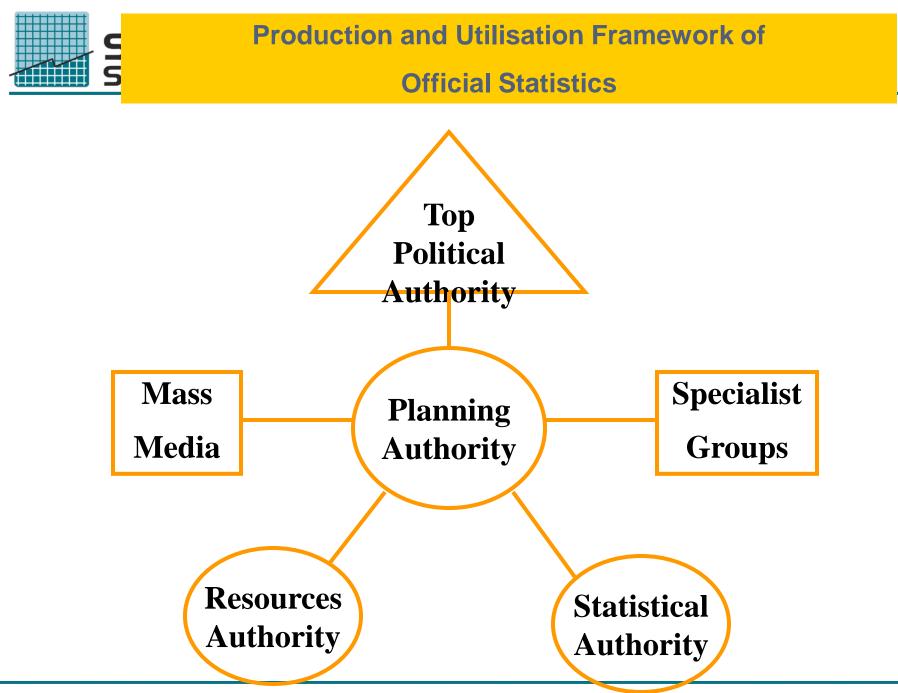
UN Statistics Commission New York

Statistician-General South Africa Pali Lehohla Thursday, 3 March 2005



Contextual Challenges

- Production and Utilisation framework challenges
- Knowledge production challenges
- Autonomy challenges



Preferred supplier of quality statistics

ELEMENTS OF THE SYSTEM





The Knowledge Society and Official Statistics

Knowledge Society:

•Is a well informed Society in fact, that should become increasingly better informed

•In a complete knowledge society, all the knowledge of the world will be:

- •available to everyone
- •available everywhere
- •available simultaneously
- •available freely

Pre-conditions

•Non-technological infrastructure should first be upgraded

- •Literacy
- •Promotion of use
- •Promotion of access
- •Basic freedoms



Knowledge as information

• Semantic form and irrespective of empirical validity or pragmatic relevance

Knowledge as understanding

• Scientific knowledge as opposed to trivia in entertainment even amateur epistemology & public relations maneuvers

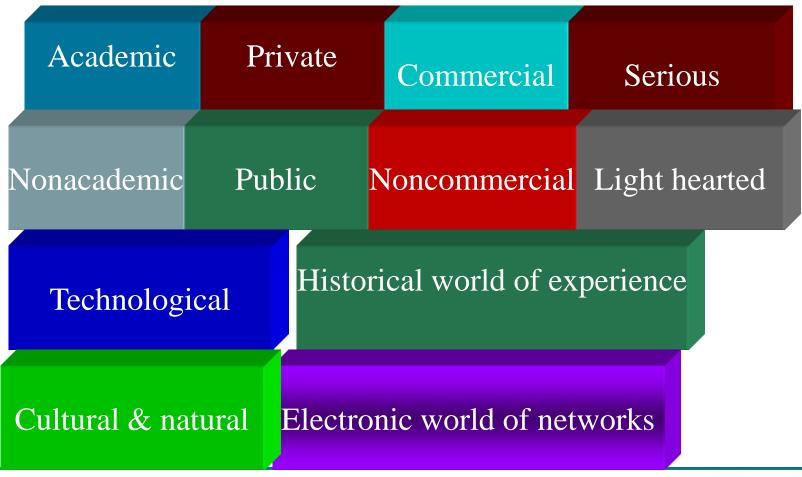
Knowledge as insight, competence and authority

• selected, activated and applied: implying applying specific rules of preference and creating added value (Bhor & Einstein)

Cognitive Map of the knowledge society



as an aid to orientation

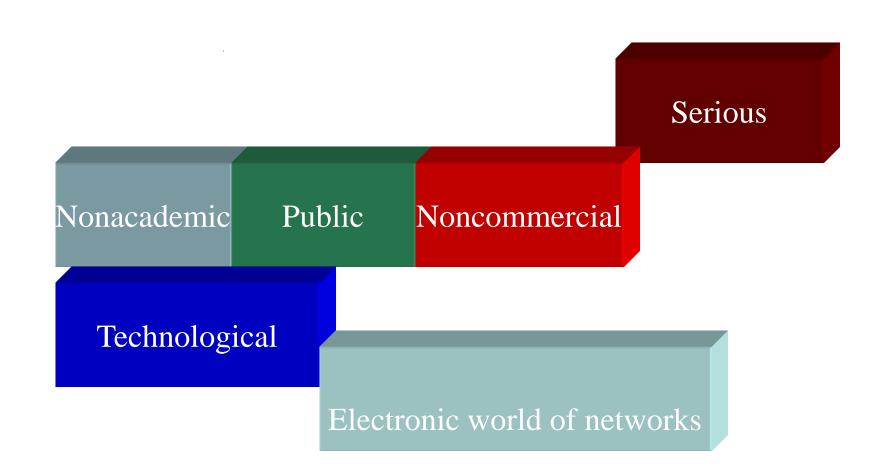


Preferred supplier of quality statistics



Cognitive Map of the knowledge society for

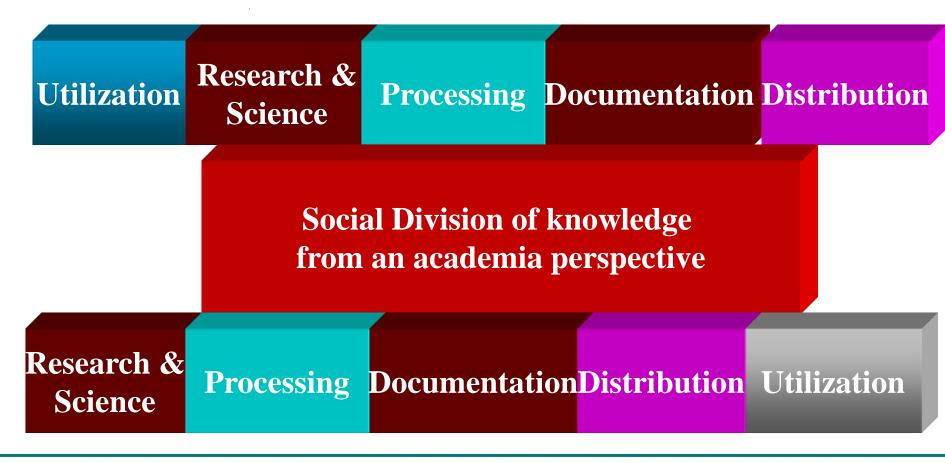
Official Statistics



Social Division of knowledge

Statistics South Africa

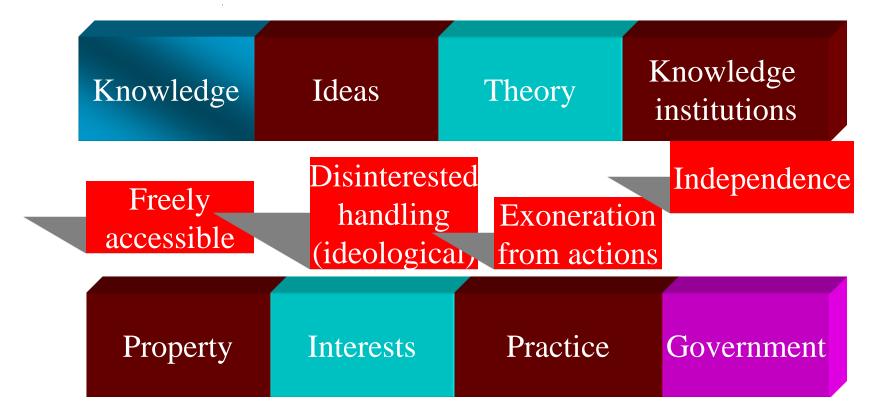
from an official statistics perspective





South Africa

For Separation



Positive Contributions of Official Statistics

- Basic information on society
- Informational service as arise from legal rulings
- Raising information levels for the information society
- Provides orientation aids
- Supplement other info services
- Knowledge base for counter information
- Statistical advice for government

Knowledge Deficits of Official Statistics

- Unavoidable knowledge gaps e.g. the future
- Intentional ignorance e.g. where there should be stats but none exist
- Limited partial knowledge
- Legalised knowledge errors e.g, definitions & standards poverty
- Inherent limits of statistical information: By its nature it can't deliver insights

Handlers of information & Risk Profile

•Blind (mailman not allowed to read)

•Discreet (butler knows but no comment)

•Anonymous (statistician notes mass data)

•Mechanical (politicians)

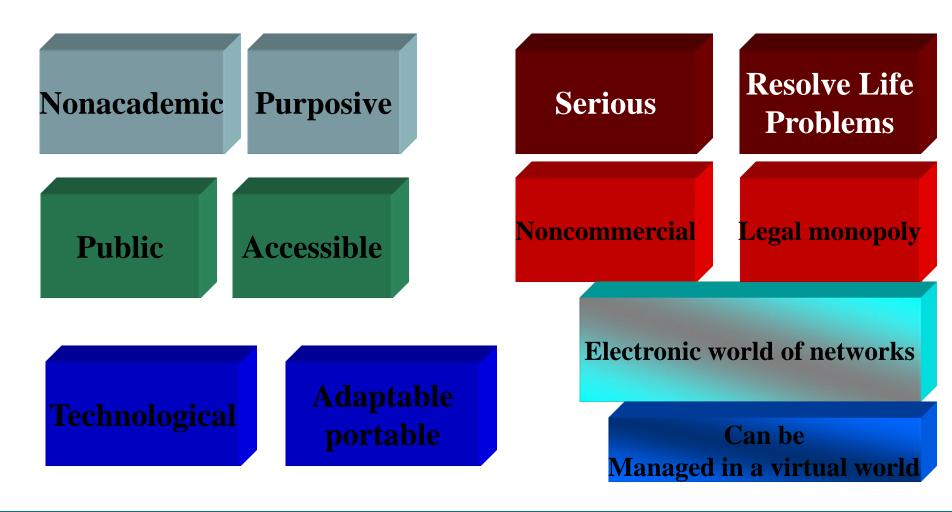
•Participatory (scientist excited by theory)

•Interventionist (knowledge = power)

Competency Profile & Risk Management

no insight understanding intervention
insight understanding no intervention
Understanding no insight intervention
insight intervention no understanding
insight understanding no intervention
insight understanding & intervention



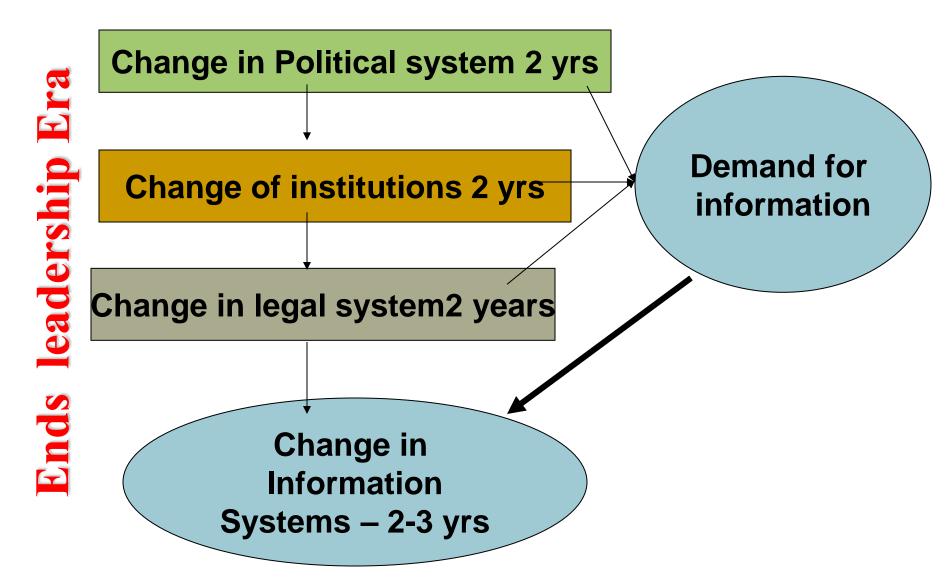




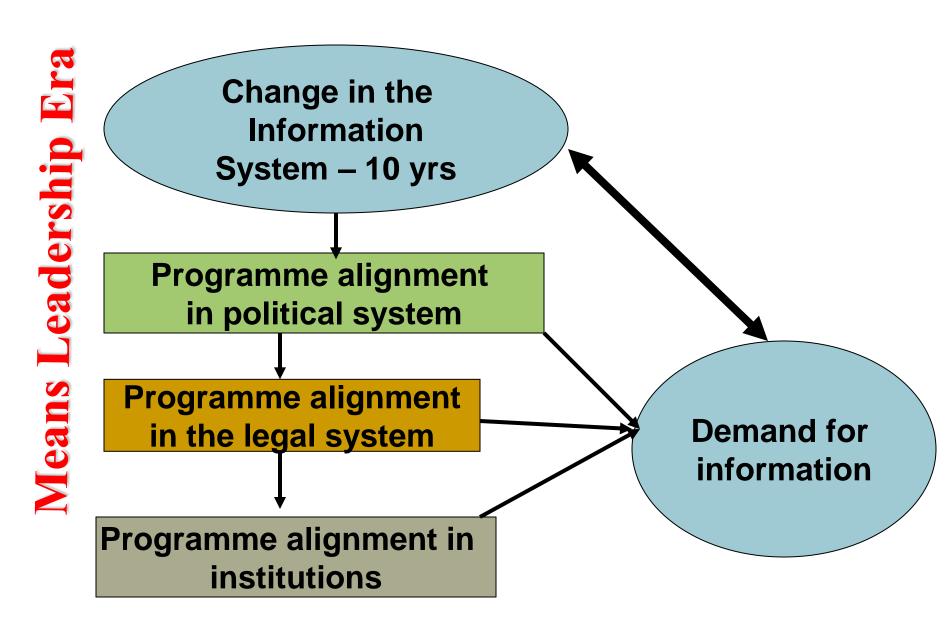
Transition Countries

- Superstructure changes
- Economy and social relations information systems
- Construction out of destruction

Transition Countries



Transition Countries



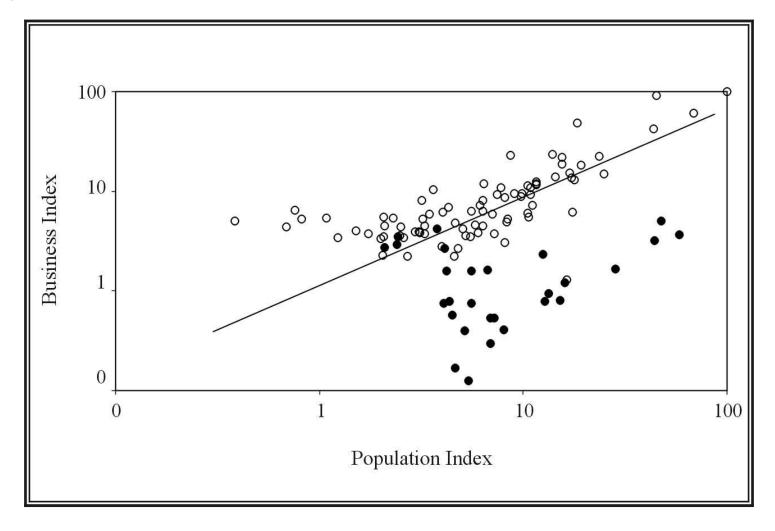


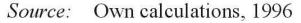
Content Challenges

- Regional Statistics informing development
- Regional Statistics informing constituency delimitation
- Statistics informing poverty
- Improving Economic Statistics
- Competency and errors
- •Public trust



Population size vs UFI of former White and Black cities in SA, 1996

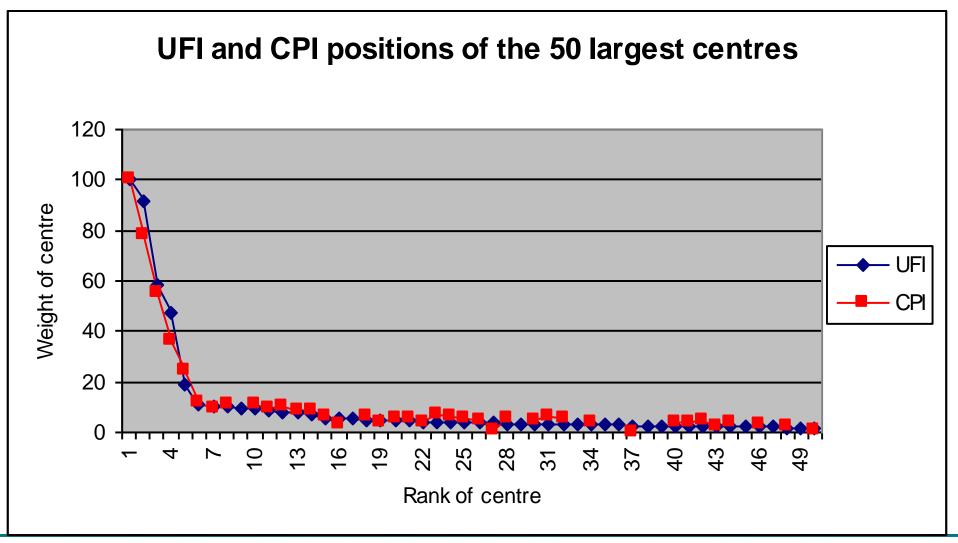




Statistics CPI & UFI of the first 50 centres South Africa

Former Name	New Municipal Name	UFI-2003	CPI-1996				
Johannesburg	City of Johannesburg	100.00	100.00	Rustenburg	Rustenburg Municipality	3.79	4.78
Kaapstad	City of Cape Town	91.26	78.12	Polokwane	Polokwane Municipality	3.66	0.62
Durban	eThekwini Metropolitan	58.29	55.36	Vanderbijlpark	Emfuleni Municipality	3.52	5.50
Pretoria Sentraal	City of Tshwane	47.06	36.60	Krugersdorp	Mogale City Municipality	3.39	
Port Elizabeth	Nelson Mandela Metropolitan	19.11	24.37	Witbank	Emalahleni	3.34	4.78
Pinetown		10.74	12.15	Welkom	Matjhabeng Municipality	3.27	6.17
Germiston		10.54	9.75	Paarl	Drakenstein Municipality	3.24	5.22
Bloemfontein	Mangaung Municipality	10.38	10.66	Empangeni		3.08	
Pietermaritzburg	The Msunduzi Municipality	9.19		Potchefstroom	Potchefstroom Municipality	2.99	3.68
Roodepoort		9.18	11.33	Tzaneen	Greater Tzaneen Municipality	2.82	
Kemptonpark		8.43	9.16	Richards Bay	uMhlathuze Municipality	2.80	
East London	Buffalo City	7.97	10.62	Newcastle	Newcastle Municipality	2.62	0.29
Benoni		7.57	8.73	Strand		2.57	
Boksburg		7.47	8.82	Wellington		2.46	
Alberton		5.81	6.57	Brakpan		2.39	3.90
Somerset West		5.68	3.19	Middelburg	Middelburg	2.38	3.78
Midrand	Midrand	5.45		Uitenhage		2.20	4.73
Vereeniging	Emfuleni Municipality	4.90	6.21	Knysna	Knysna Municipality	2.19	2.43
Nelspruit	Mbombela	4.86	4.01	Worcester	Breede Valley Municipality	2.15	3.76
George	George Municipality	4.73	5.28	Port Shepstone	Hibiscus Coast Municipality	2.14	
Klerksdorp	City Council of Klerksdorp	4.41	5.28	Mossel Bay	Mossel Bay Municipality	2.08	2.81
Stellenbosch	Stellenbosch Municipality	4.28	3.59	Loskop	Imbabazane Municipality	2.07	
Bellville		4.18	6.84	Brits	Municipality of Madibeng	1.95	2.14
Kimberley	Sol Plaatje Municipality	3.84	6.68	Greater Hermanus	Overstrand Municipality	1.78	
Springs		3.84	5.29	Ladysmith	Emnambithi/Ladysmith Munic	1.72	0.41







Overlap between districts and catchment areas - Best fit

	Km²			
Munisipal district	Municipal District Area	Poligon Area	% Poligon Area overlap with Mun. District Area	% Mun District Area overlap with Polygon area
Mossel Bay	2,008	1,946	88%	90%
Elundini	5,364	5,688	81%	77%
Mbizana	2,414	2,274	83%	89%
Ditsobotla	6,477	6,201	84%	87%
Setsoto	5,975	6,814	88%	77%
Zeerust	7,206	6,225	82%	95%
Richtersveld	9,684	9,298	91%	95%
Matzikama	5,544	6,710	85%	70%
City of Cape Town	2,500	2,377	83%	88%
Langeberg	5,733	6,255	92%	85%
Senqu	6,777	7,223	90%	84%
			86%	



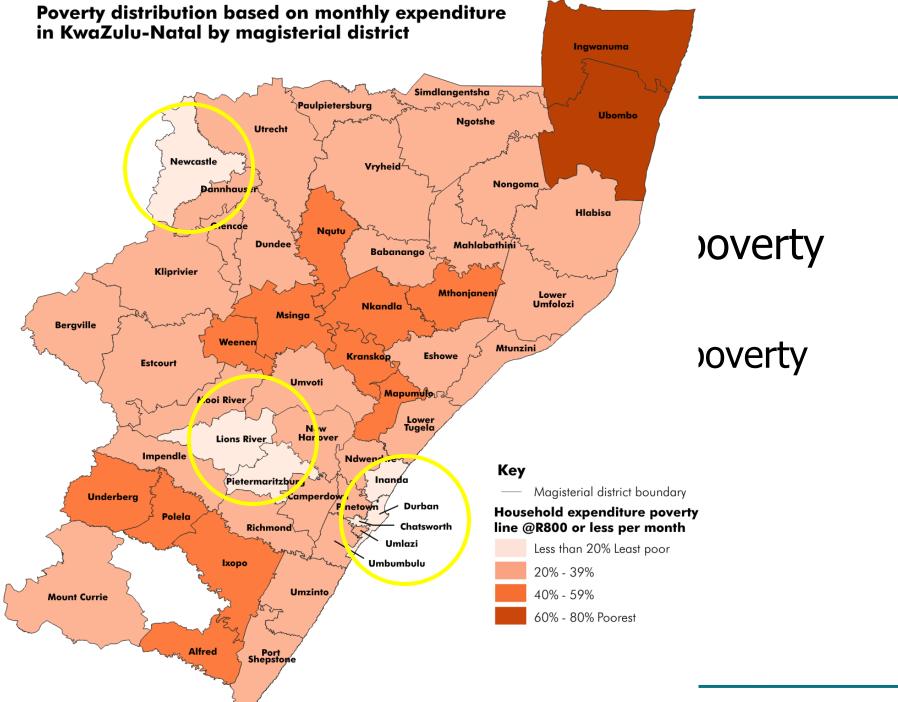
Overlap between districts and catchment areas – Medium fit

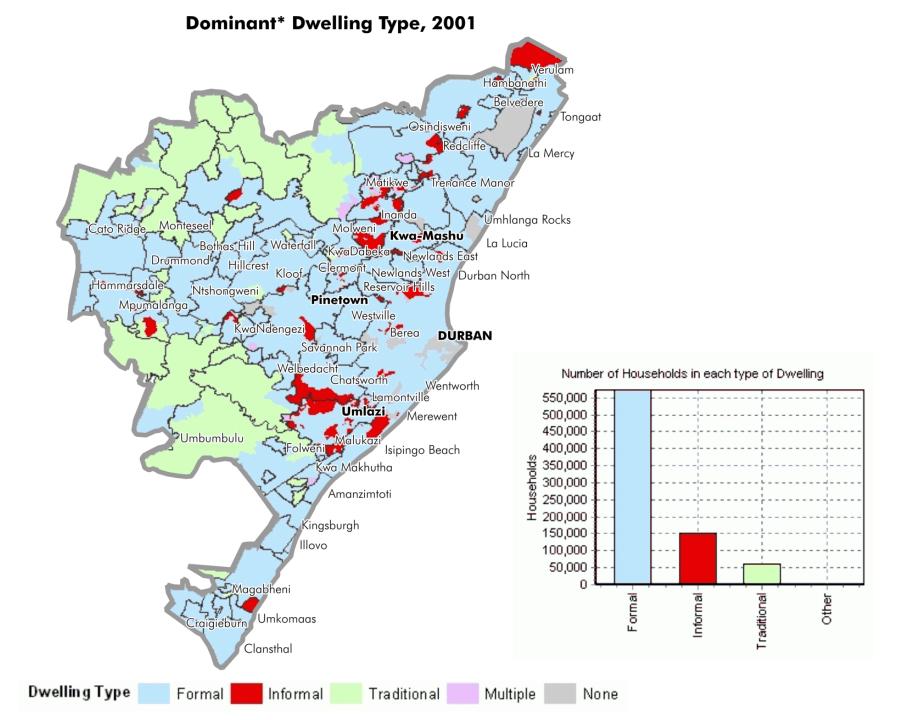
	Km ²			
Munisipal district	Municipal District Area	Poligon Area	% Poligon Area overlap with Mun. District Area	% Mun District Area overlap with Polygon area
Kareeberg	17,720	18,830	59%	55%
Blue Crane Route	9,836	7,776	57%	72%
Mohokare	8,788	5,629	63%	98%
Highveld East	2,964	1,857	49%	78%
Inkwanca	3,587	2,987	65%	78%
			59%	

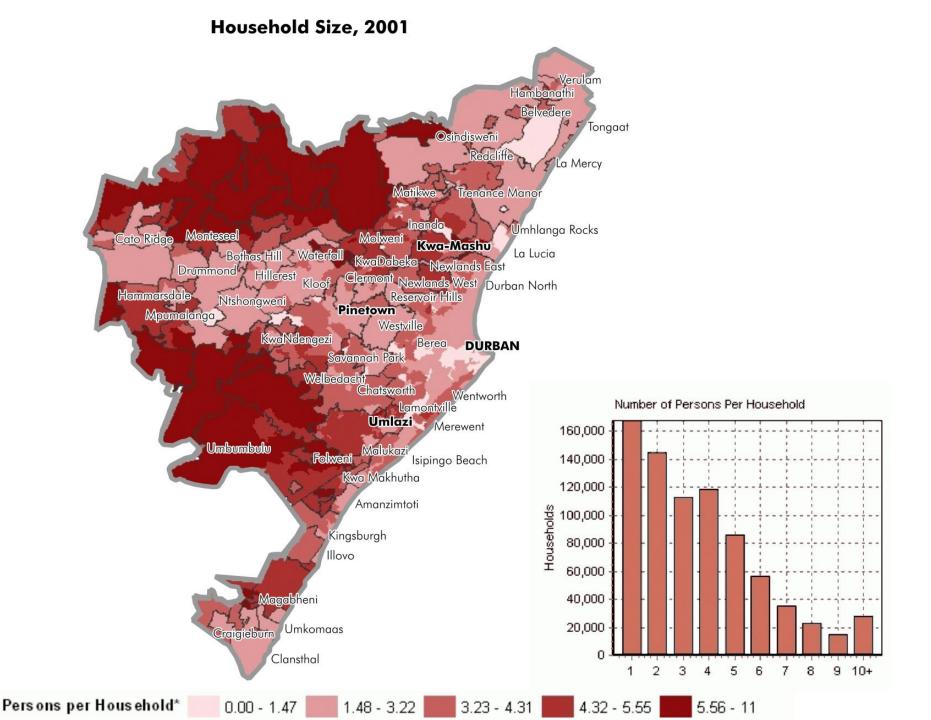


Overlap between districts and catchment areas – Worst fit

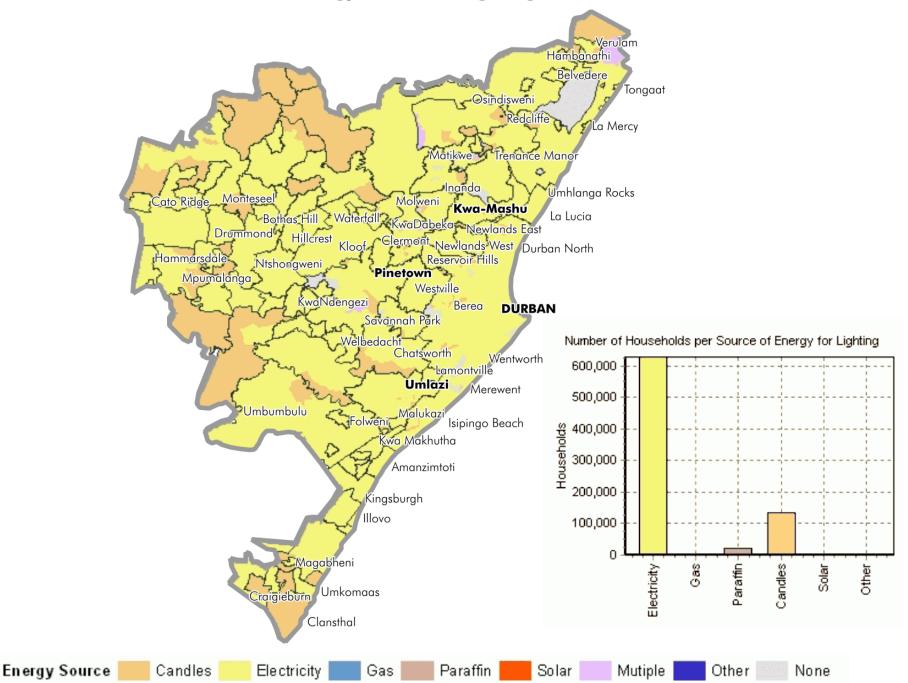
	Km²			
Munisipal district	Municipal District Area	Poligon Area	% Poligon Area overlap with Mun. District Area	% Mun District Area overlap with Polygon area
Renosterberg	5536	2022	36%	99%
Central Karoo	5589	1634	29%	100%
Greater Taung	5649	2306	34%	84%
Thulamela	2,974	1,577	35%	66%
!Kheis	5,530	5,502	33%	33%
			33%	



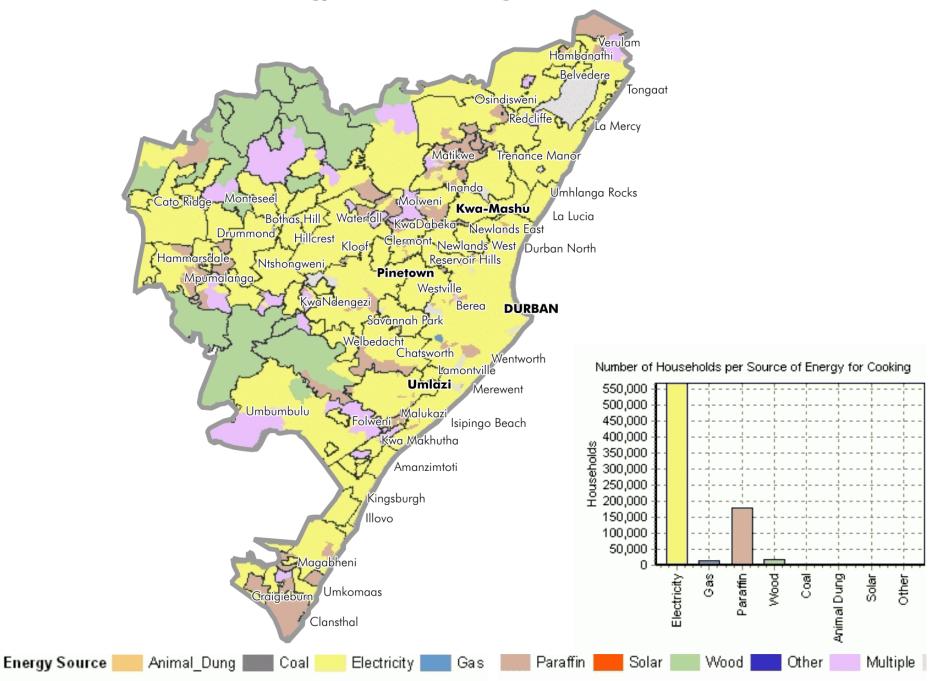




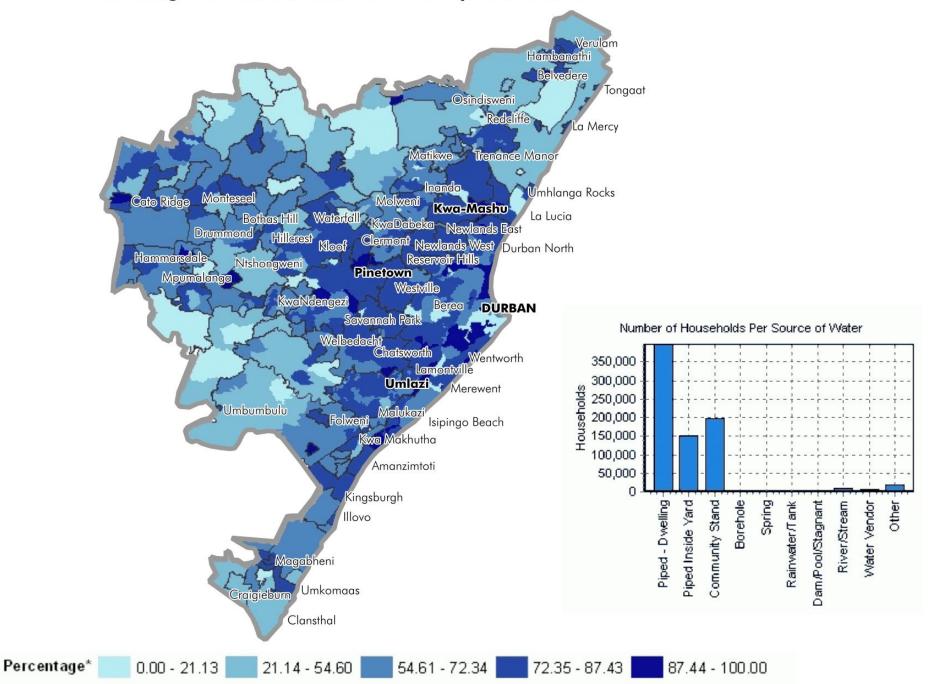
Dominant* Energy Source for Lighting, 2001



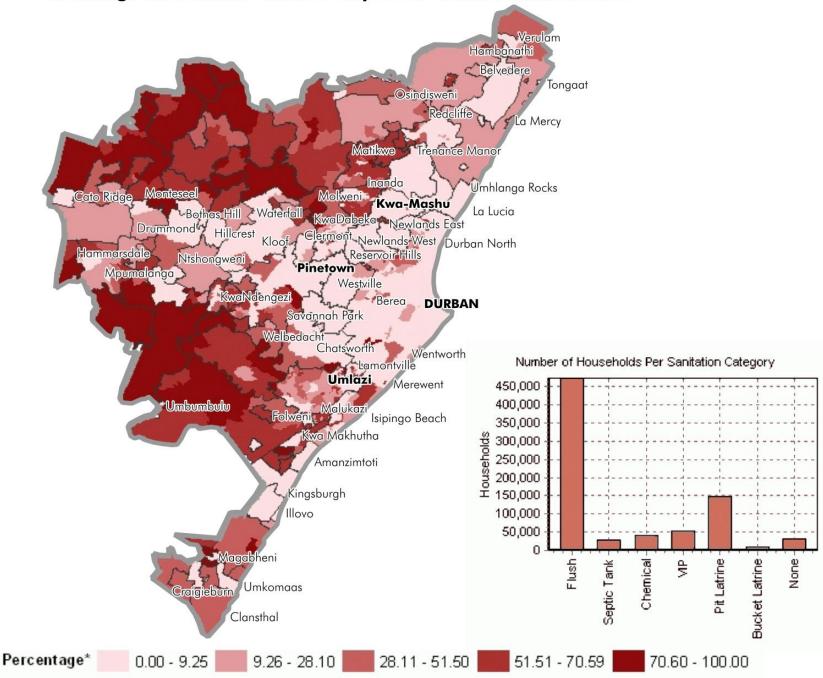
Dominant* Energy Source for Cooking, 2001



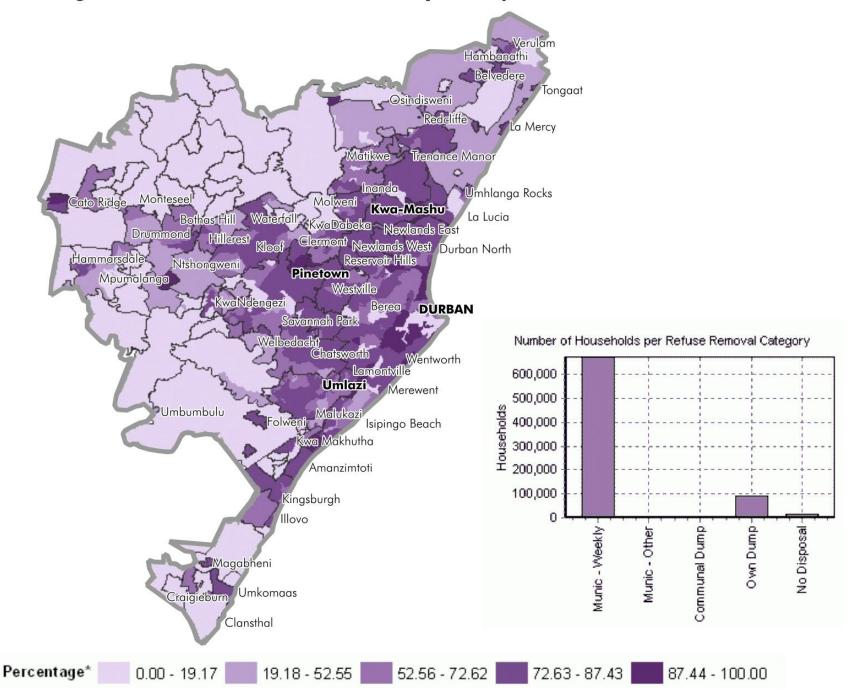
Percentage Households with Access to Piped Water, 2001



Percentage Households without "improved" Toilet Facilities, 2001



Percentage Households with Refuse Removal by Municipalities, 2001





Improving GDP

Value	Business	Business	GDP
Chain	Register	Surveys	GDP

Key Goal: Improve detail and coverage – service , construction, agriculture

	Business Register	Business Surveys
Past	New register – tax records First samples – VAT records	New samples drawn
Present	First publication – new BR Introduced Quality improvement survey	Bigger sample for Economic Activity Survey (EAS) Strengthened large sample surveys Introduced new tourism surveys Some economic analytical capacity
Future	 Establish Large Business unit; Improving classifications; Access to RSC levy data; Business activity geo-referencing 	To improve: - coverage of short term indicators - response rates and sample size on manufacturing, trade & fin stats - classifications - economic analytical capacity - research expenditure side of GDP



CPI

Value Chain



Key Goal: Update basket and ensure accuracy of index

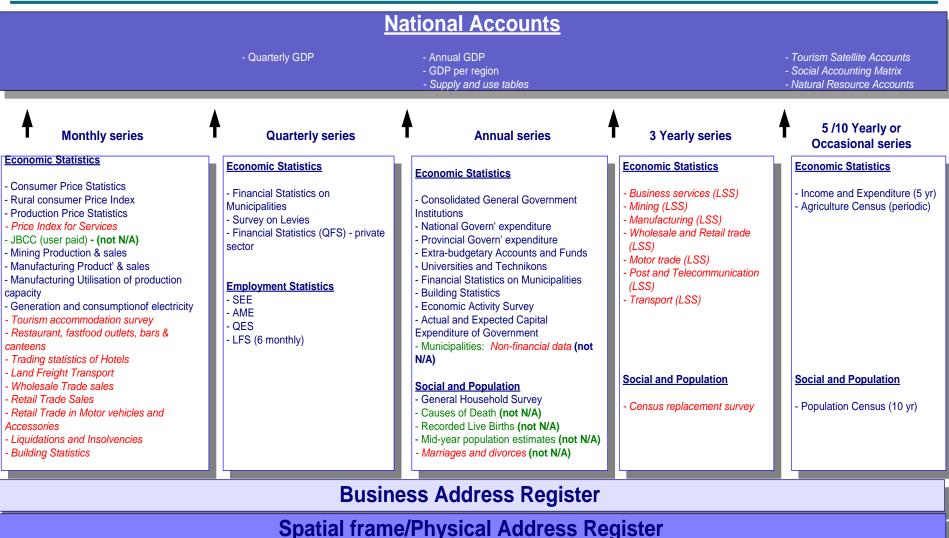
	Income and Expenditure	CPI collection
Past	Every five years Recall method	Forced to revise CPI because of outdated rental data Substantive review of methodology Decide to change methodology to direct price collection
Present	Piloting diary method in the field	Pilot and implement new direct collection method in Gauteng and Mpumalanga
Future	Conduct diary method in field – 2005 Conduct IES every three years	Roll out new methodology in all provinces and phased in use of new data in index to end in 2006



Dealing with challenges

- •Registers and their management
- Management information systems
- Frameworks including legislative ones
- Devolution of action
- Centralisation of metadata
- Competency improvement and uniformity of training
- Transparency

Statistics South Africa System of Statistics in Stats SA



Blue = SDDS requirement; Green = SDDS but not National Accounts; Red = Not SDDS

Preferred supplier of quality statistics