

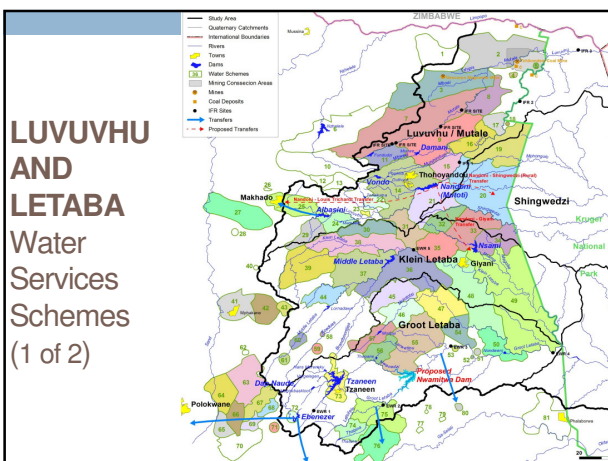
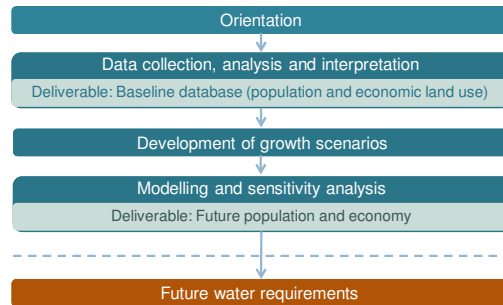
DEVELOPMENT OF A RECONCILIATION STRATEGY FOR THE LUVUVHU AND LETABA WATER SUPPLY SYSTEM

Demographics and Urban Land Use

Study Steering Committee meeting
31 October 2012



APPROACH



LUVUVHU AND LETABA Water Services Schemes (2 of 2)

Water Schemes	
1	Luphephe / Nwandedzi North
2	Masisi RWS
3	Luphephe / Nwandedzi Main RWS
4	Tshikondeni Mine
5	Mutale LM Farms Supply
6	Nzhelele North RWS
7	Mutale Main RWS
8	Mutale Mukoya RWS
9	Damani RWS
10	Nzhelele RWS
11	Vondo North Rural RWS
12	Matshavhawe / Kunda RWS
13	Tshilire Murumwa RWS
14	Vondo Central RWS
15	Vondo East RWS
16	Tshifud RWS
17	Lambani RWS
18	Thulamela LM Farms Supply
19	North Malamulele East RWS
20	South Malamulele East RWS
21	Malamulele West RWS
22	Tshakhuma RWS
23	Levubu CBD
24	Valdezia RWS
25	Makhado RWS
26	Alexandra Scheme RWS
27	Sinthumule / Kutana RWS
28	Vhembe Individual Supply
29	Elim / Vlefontein RWS
30	Middle Letaba RWS - Vyeboom Masia
31	Vondo South RWS
32	Middle Letaba RWS - Malamulele West
33	Giyani System F1
34	Giyani System F2
35	Mapepe / System N RWS
36	Middle Letaba RWS - Babangu
37	Middle Letaba RWS - Majosi
38	Tshilale RWS
39	Vhembe Individual Supply
40	Botlokwa GWS
41	Botlokwa GWS
42	Ramakgopa GWS
43	Nthabeng GWS
44	Sekgopose Individual Groundwater Scheme
45	Middle Letaba RWS - Bolobedu NW
46	Worcester / Mothobeki RWS
47	Lower Molotetsi
48	Giyani System C/D
49	Giyani System A/B
50	Siluwane - Nondweni Extended RWS
51	Greater Giyani LM Farms Supply
52	Ba-Phalaborwa Individual Supply
53	Ba-Phalaborwa Individual Supply
54	Giyani System D - South West
55	Ritavi / Letaba RWS
56	Thapane RWS
57	Modjadj RWS
58	Letaba Individual Supply
59	Greater Letaba LM Farms Supply
60	Sekgopo Local GWS
61	Greater Tzaneen LM Farms Supply
62	Rietgat GW
63	Sabeyeng-Dikgale RWS
64	Mothapo RWS
65	Laaste Hoop RWS
66	Mankweng RWS
67	Badimong RWS
68	Segwasi RWS
69	Boyne RWS
70	Molepo RWS
71	Lepelle Nkumpi LM Farms Supply
72	Tzaneen Individual Supply
73	Tzaneen / Modjadjskloof
74	Thabana RWS
75	Ritavi II RWS
76	Tours RWS
77	Leydsdorp Local WS
78	Tzaneen Individual Supply
79	Gravelotte Local WS
80	Murchison
81	Namagale / Lulekani RWS

BASE POPULATION

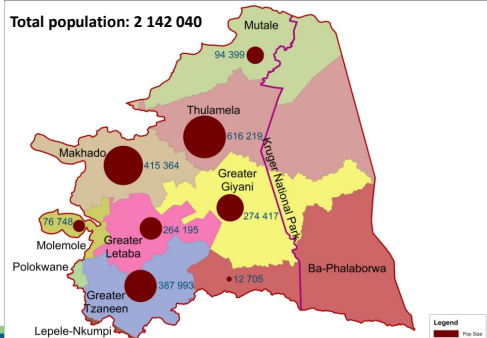
- Information sources informing base population
 - Population and settlement database of the DWA Water Resources Planning Systems (WRPS) and Water Services directorates
 - 2008 Spot Building Count data
 - All Towns Study
 - Census 2001 information
 - Community Survey 2007 information
- Local information:
 - Reviewed municipal documents
 - Discussions with municipal officials

BASE POPULATION CALCULATIONS

- Used number of households per settlement (2008 DWA settlements database correlated to Spot Building Count data)
- Refined household sizes for each area based on:
 - Census 2001 information
 - Changes in socio-economic circumstances per local municipality
- The population per settlement calculated based on number of households and refined household sizes
- Possible inaccuracies exist on settlement level but utilised at higher grouped level

BASE POPULATION (2010)

Total population: 2 142 040



FUTURE GROWTH SCENARIOS

- Demographic variables
 - Migration
 - Mortality
 - Fertility
 - HIV/AIDS
- Economic variables
 - GDP growth
 - Employment per sector
 - Growth relative to other areas

GOVERNMENT STRATEGIES - NATIONAL

- Limpopo Growth and Development Strategy (2004-2014)
 - Agriculture, mining, tourism and related manufacturing industries
 - Industrial development clusters identified
 1. Fruit and vegetable (horticulture) cluster
 2. Red and white meat cluster on all the corridors
 3. Tourism sub-clusters
 4. Forestry cluster
- Limpopo Employment, Growth and Development Plan (2009-2014)
 - Agricultural, mining and tourism opportunities
 - Rural development
 - Industrial development and mining beneficiation
 - Enterprise and skills development
 - Public infrastructure development

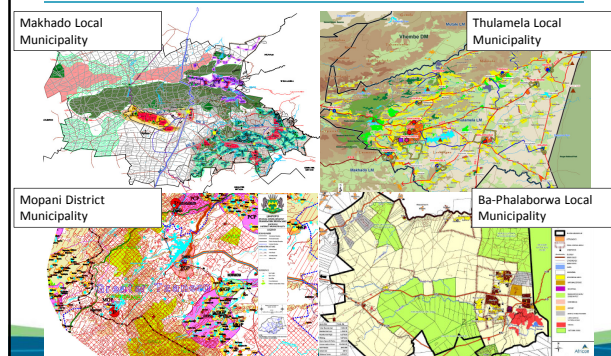
GOVERNMENT STRATEGIES - NATIONAL

- National Development Plan 2030
 - Focus on skills development, infrastructure development and job creation
 - Upgrading of informal settlements
 - Water, transport and energy infrastructure improvements
 - Agro-processing
 - Tourism development
 - SMME development
 - Focus on green economy

GOVERNMENT STRATEGIES – PROVINCIAL AND LOCAL

- IDP
 - Overview of municipality
 - Demographic overview
 - Economic overview
 - Infrastructure spending budget
- LED and GDS
 - Priorities in terms of economic development
- SDF
 - Priority areas for development (growth points)
 - Nodes and corridors
 - Spatial development initiatives
 - Sensitive/conservation areas

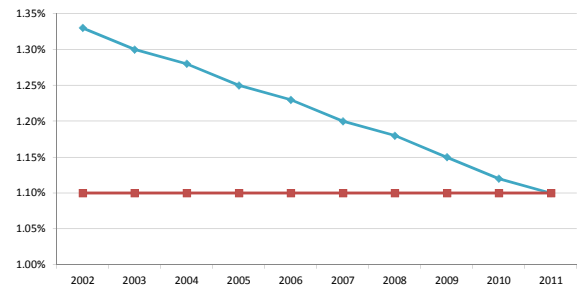
SPATIAL DEVELOPMENT FRAMEWORK



GROWTH SCENARIOS

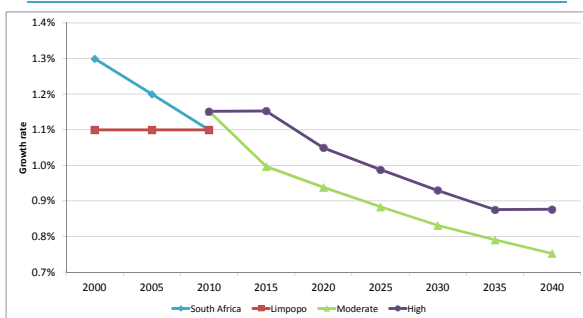
- **Moderate growth scenario**
 - Historic growth rates
 - Decrease in overall population growth rate
 - Reduced fertility, mortality remains relatively high
 - Continuing out-migration to large economic hubs (Gauteng)
 - Internal migration from rural areas to urban nodes
 - Relatively low economic growth
- **High growth scenario**
 - Initial low economic growth peaking in 20 years, flattening out
 - Focus on rural development
 - Installation of infrastructure and services
 - Agriculture, mining, tourism and rural beneficiation
 - Improved health services
 - Reduction of mortality
 - Decreased out-migration
 - Lower urbanisation within study area

HISTORICAL POPULATION GROWTH

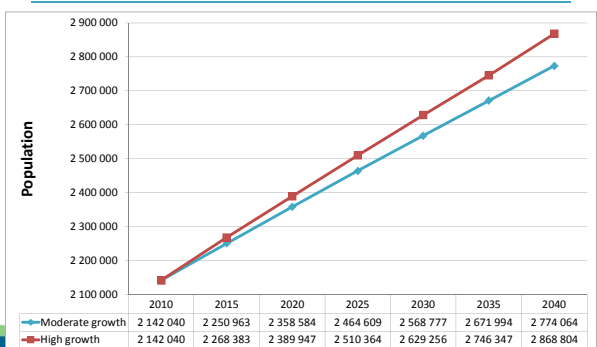


Calculation based on StatsSA mid-year population estimates and provincial distributions

POPULATION GROWTH RATES



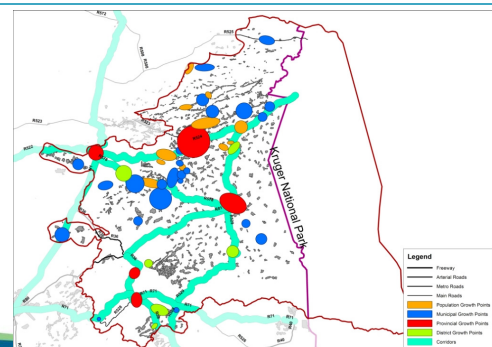
ESTIMATED POPULATION GROWTH



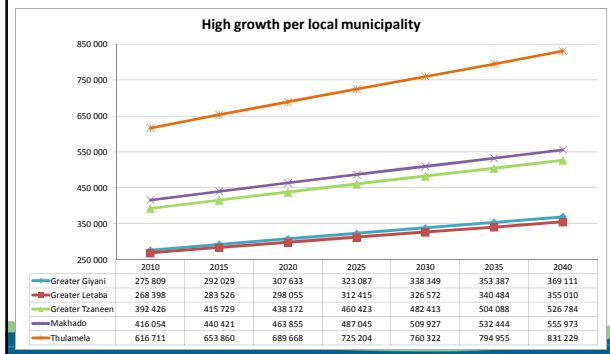
SPATIAL DEVELOPMENT

- **Concentration and integration of development**
 - Main economic nodes and growth points
 - Giyani, Tzaneen, Thohoyandou and Makhado
 - Along major transport corridors
 - Major rural settlements
- **Commercial development in main nodes and rural growth nodes**
- **Industrial development in Makhado and Tzaneen**
- **Development hampered by:**
 - Topography
 - Tribal land ownership
 - Land claims

SPATIAL DEVELOPMENT



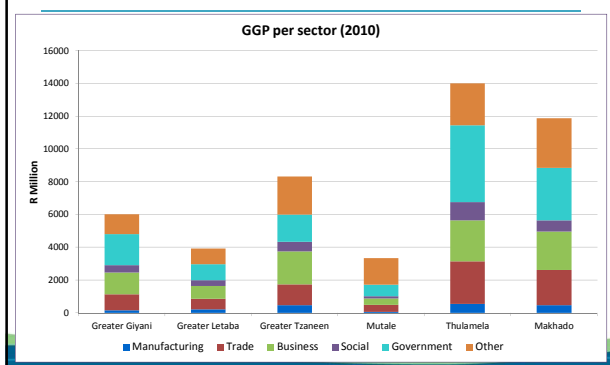
ESTIMATED POPULATION GROWTH



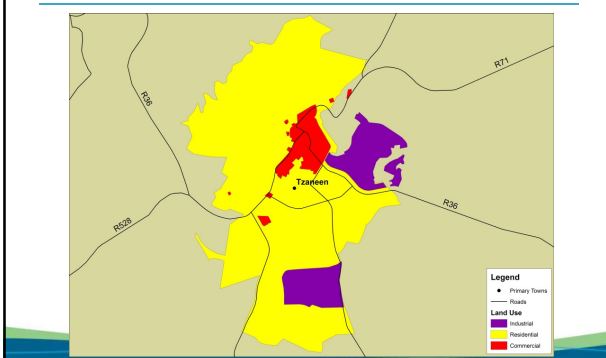
ESTIMATED POPULATION PER WS – HIGH SCENARIO (EXTRACT)

Water Schemes (58)	Population ('000)						
	2010	2015	2020	2025	2030	2035	2040
Giyani System C/D WS	84	89	95	100	106	111	117
Giyani System D : South West WS	27	28	29	31	32	33	35
Giyani System A/B WS	52	55	58	60	63	66	69
Giyani System F1 WS	24	25	26	27	29	30	31
Giyani System F2 WS	12	13	13	14	15	15	16
Tzaneen / Modjadiskloof WS	13	14	14	15	16	17	17
Modjadji RWS	81	86	90	94	99	103	108
Sekgosesa Individual Groundwater Scheme	21	22	23	24	25	26	28
Middle Letaba RWS : Bolobedu NW	40	43	45	47	50	52	54
Middle Letaba RWS : Magoro	72	76	80	84	88	92	96
Thabina RWS	57	61	65	68	71	75	78

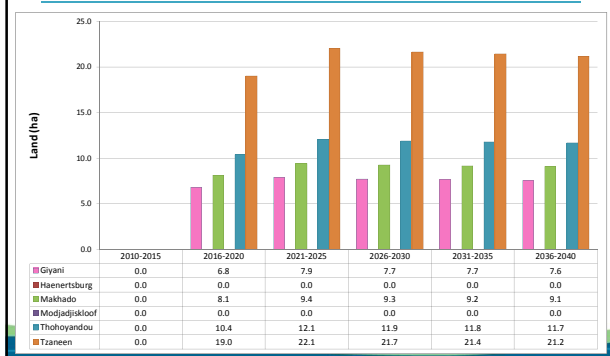
ECONOMIC STATUS QUO



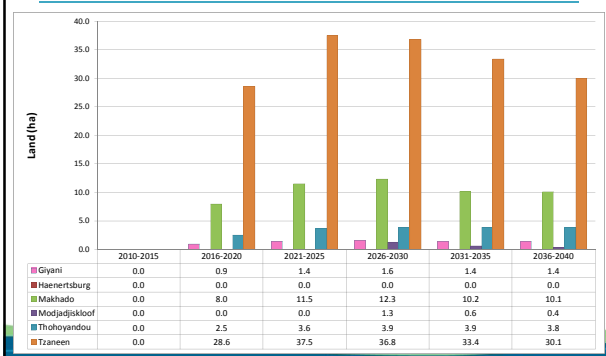
EXISTING ECONOMIC LAND (EXAMPLE)



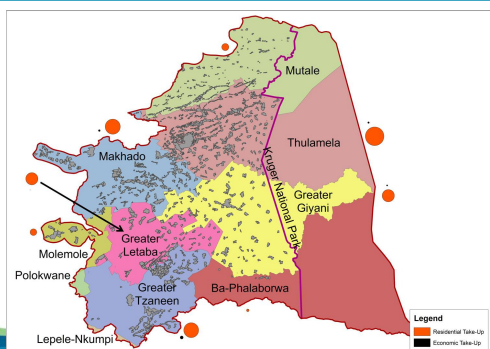
TAKE-UP OF COMMERCIAL LAND



TAKE-UP OF INDUSTRIAL LAND



FUTURE LAND REQUIREMENTS



THANK YOU