



IHS Markit™

Exploring Regional Data:

Filling the gaps when modelling regional labour statistics

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Sr Research & Data analyst

28 November
2019

Who we are



IHS Markit™

Leading source of
information and **insight**

What we do

Information
+
Analytics
+
Expertise



Where we are



140+ offices in 28
countries

South African offices



Cape Town
acq. 2018

Centurion
est. 1994



FINANCIAL MARKETS
DATA & SERVICES



ECONOMICS &
COUNTRY RISK

South African offices



- **Regional eXplorer (ReX)**



- **EconoStat**



- **TradeStat**

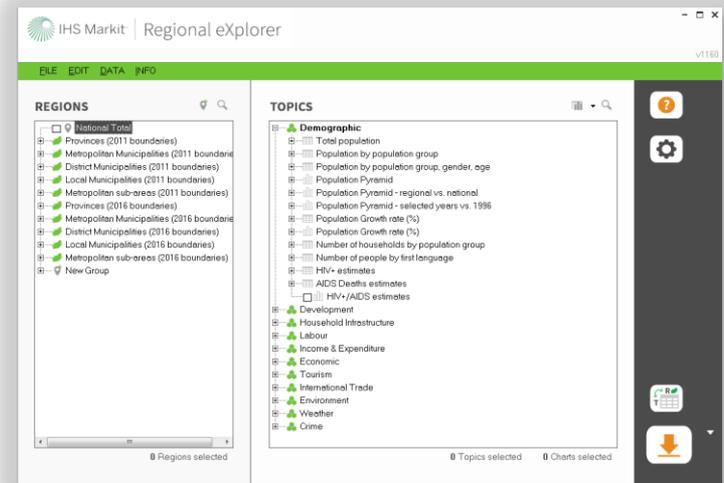
Centurion
est. 1994



ECONOMICS &
COUNTRY RISK

Regional eXplorer

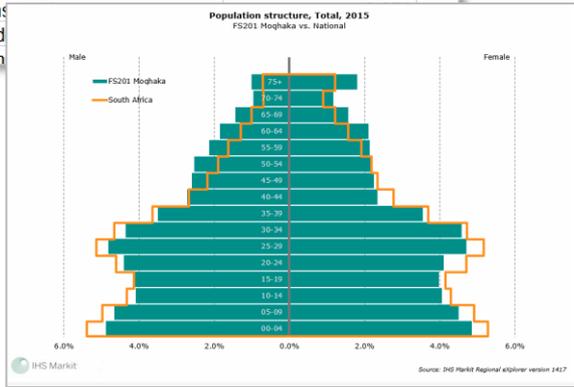
A consolidated **platform** of various integrated data sources that provides accurate and **up-to-date** statistics down to **municipal level**



Regional eXplorer (ReX)

MICROSOFT EXCEL®
tables & charts

	A	B	C	D	E	G
1	IHS Markit				J201	
2	Regional eXplorer 1417 (2.6b)				FS201 Moqhaka	
3						
4	Labour					
5	Employment					
6	Total Employment (Formal + Informal)					
7	2016					
8	1	Agriculture				5,740
9	2	Mining				2,231
10	3	Manufacturing				2,693
11	4	Electricity				223
12	5	Cons				
13	6	Trad				
14	7	Tran				



MICROSOFT WORD®
reports



Demographics

Satellite Modules

Household
Infrastructure

Income &
Expenditure



Tourism



Crime



Intl
Trade



Fiscal

Development

Labour

Economics

Demographics



Working Age Population:

Race, Age, Gender

Labour



Economically Active Population

Employed

Unemployed

Economics



Economic Activity

and

Labour Remuneration

by Sector

Labour



How did the unemployment rate in the Northern Cape change between 1996 and 2016?

- ✘ The population census 1996 was **not the official instrument** to measure labour variables.
- ✘ Census 1996 published an unemployment rate similar to the **expanded definition** only.
- ✘ The Community Survey 2016 did not publish any Labour data.
- ✘ NB: Many regions have changed boundaries between 1996 & 2016.

Unemployment Data Sources: OHS, LFS, QLFS, Pop Census, Community Survey



stats sa
Department:
Statistics South Africa
REPUBLIC OF SOUTH AFRICA

Statistics South Africa
Statistical release P0317
October household survey 1997

Embargo: 09:30
Date: 4 November 1999

Co-operation between Statistics South Africa (Stats SA), the citizens of the country, the private sector and government institutions is essential for a successful statistical system. Without continued co-operation and goodwill, the timely release of relevant and reliable official statistics will not be possible.

Stats SA publishes approximately three hundred different releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, international communication is essential. English only.

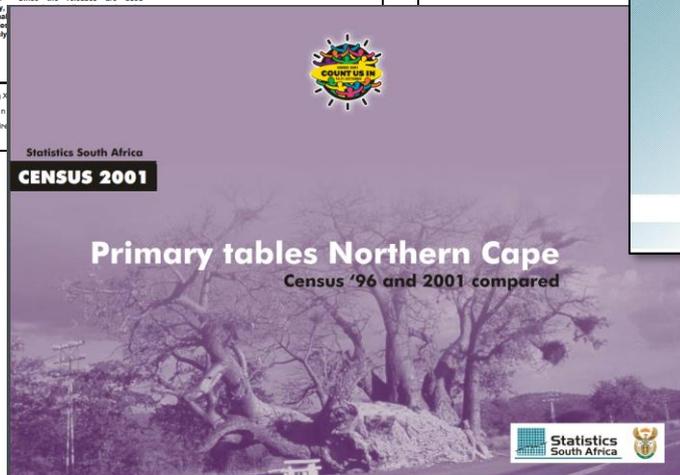
Statistics South Africa
Statistical release P0210
Labour force survey
March 2007

Embargo: 26 Sept

Quarterly Labour Force Survey
Q3:2019
Risenga Maluleke
Statistician-General
#StatsSA



Statistics South Africa
CENSUS 2001
Primary tables Northern Cape
Census '96 and 2001 compared



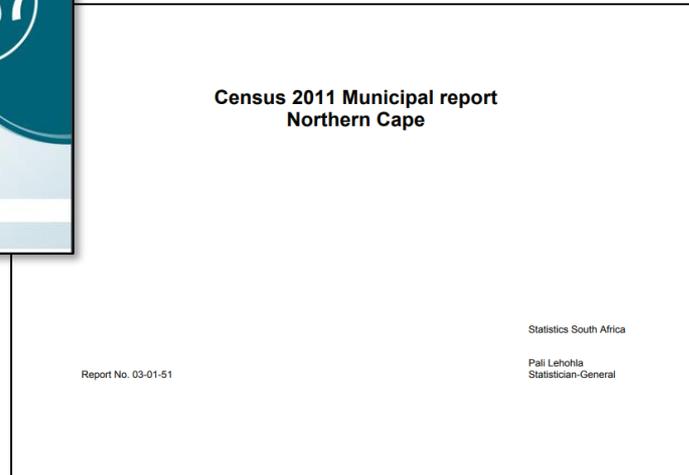
Community Survey 2007
BASIC RESULTS:
NORTH WEST



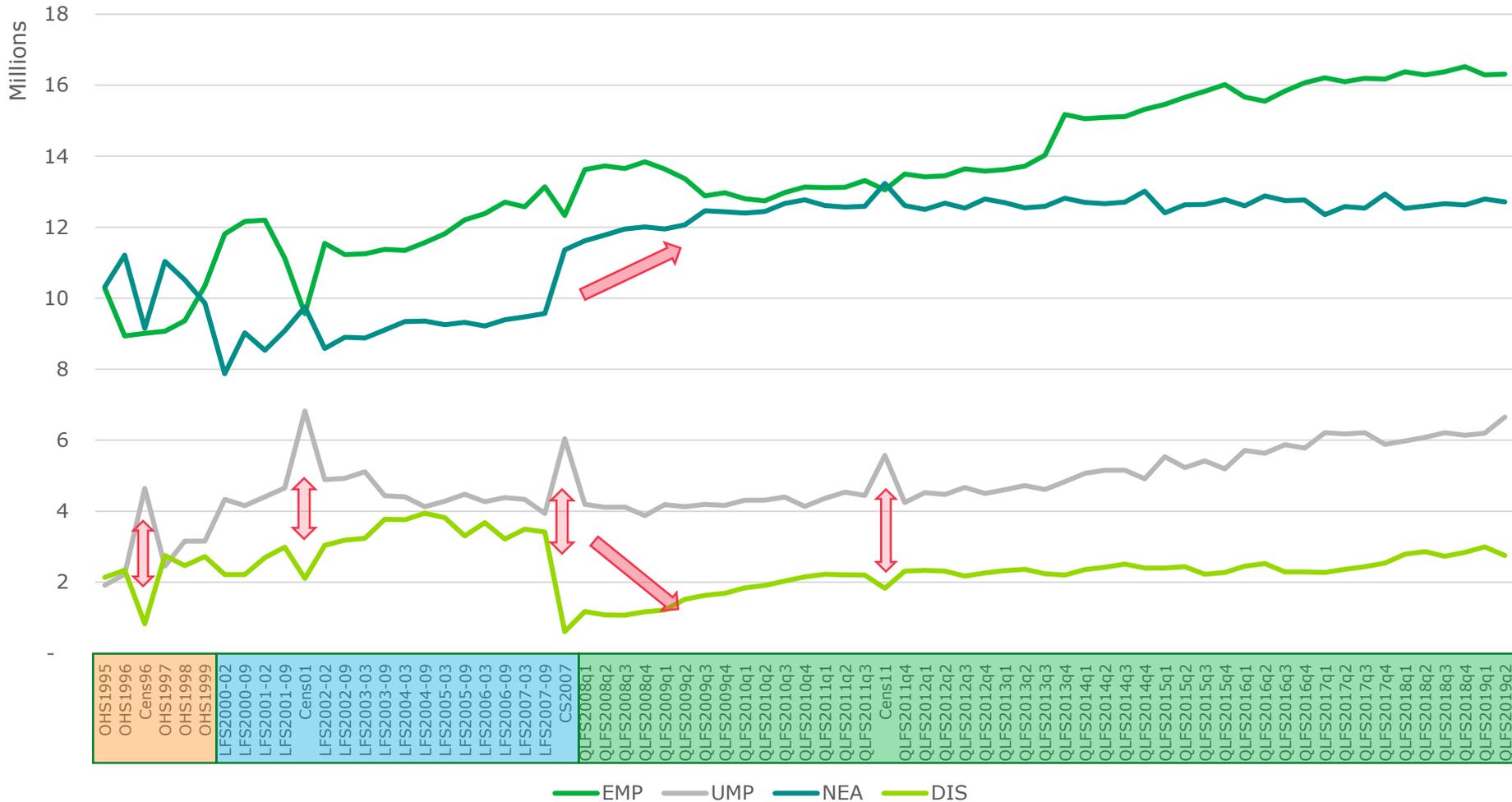
Census 2011 Municipal report
Northern Cape

Report No. 03-01-51

Statistics South Africa
Pali Lehohla
Statistician-General



Labour Force Status - Various Data sources



Source: Stats SA

Reconciling data sources

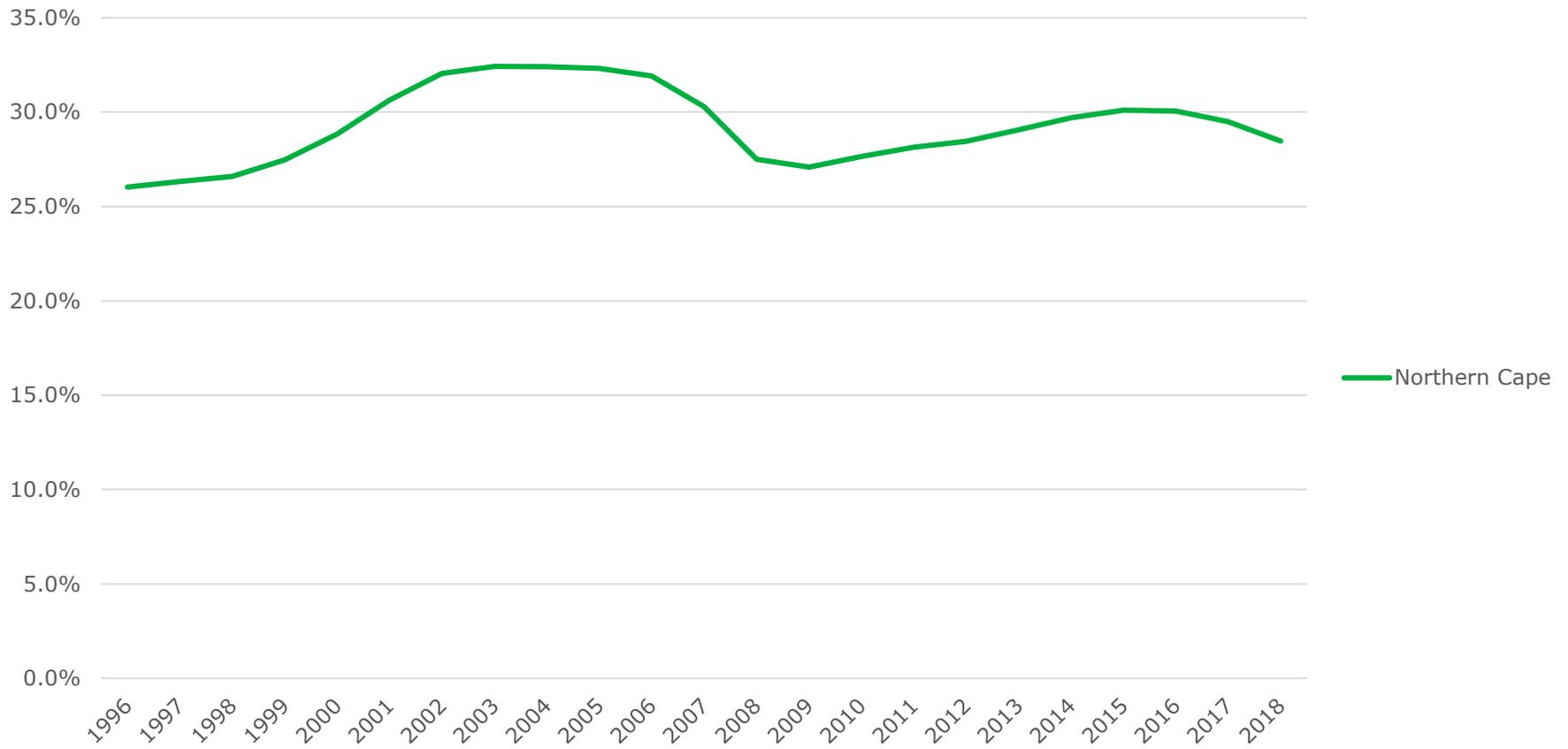
- No single dataset is flawless – not even a full population census
- Need to know the strengths and weaknesses of each datasets
- Typically the more inputs considered, the better the results
- Needs continuous updating as new sources becomes available

Data from ReX



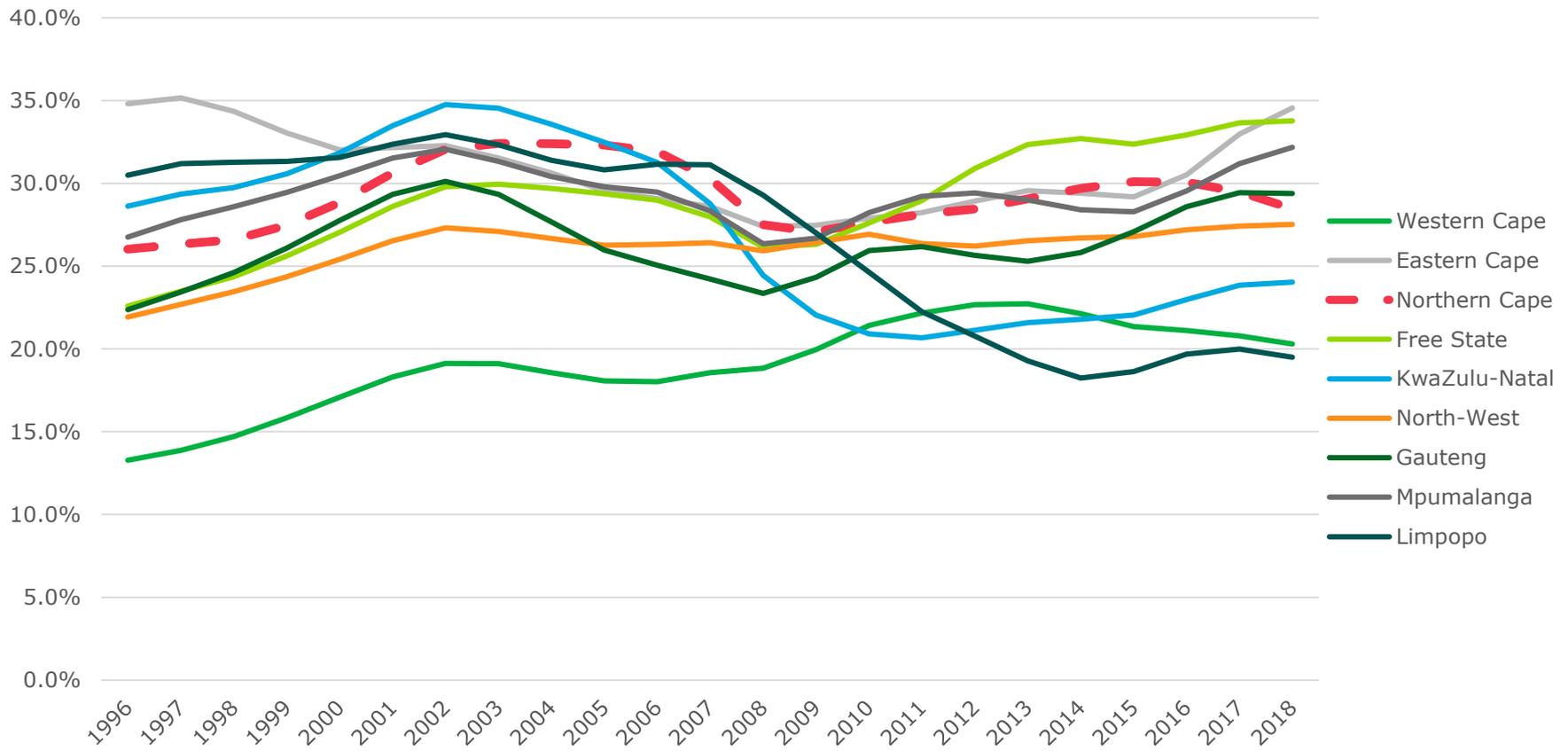
Unemployment rate, official definition (%)

Northern Cape, Total



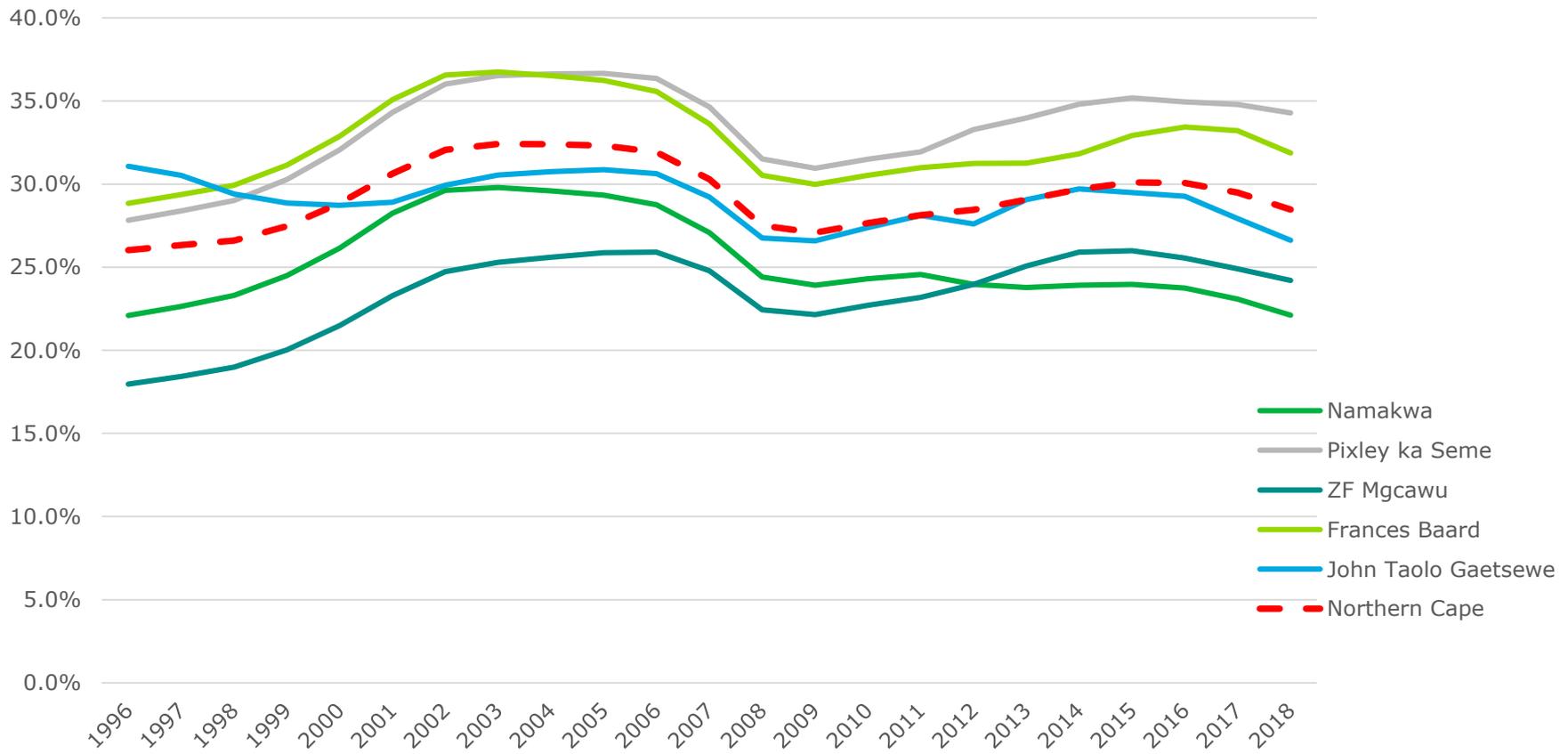
Unemployment rate, official definition (%)

Northern Cape vs Other provinces



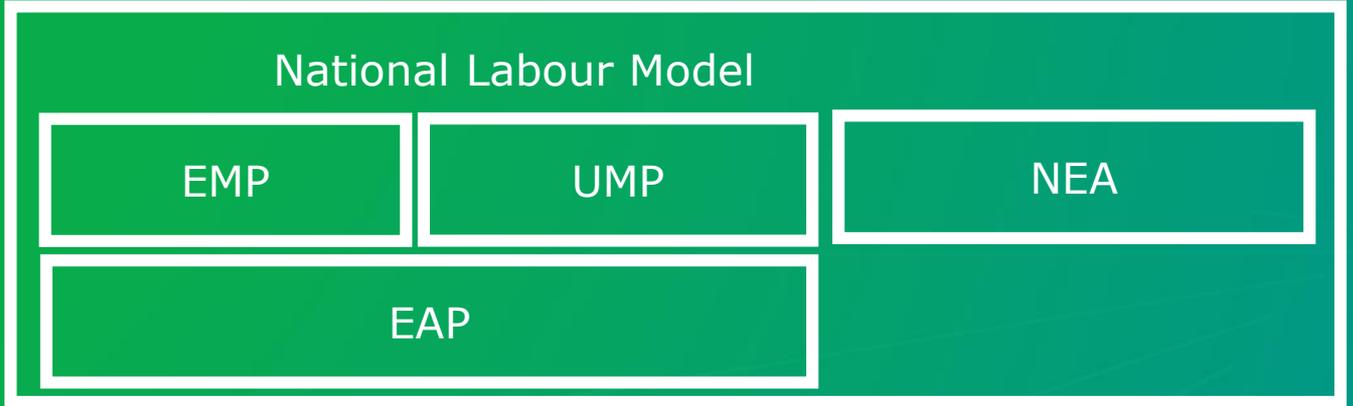
Unemployment rate, official definition (%)

Northern Cape vs NC Districts



Various Inputs: OHS, LFS, QLFS, Industry Surveys, Minerals Bureau & Census Distributions

Labour



"Definitions: Strict VS Broad"

ReX Demographic Module: Race & Gender

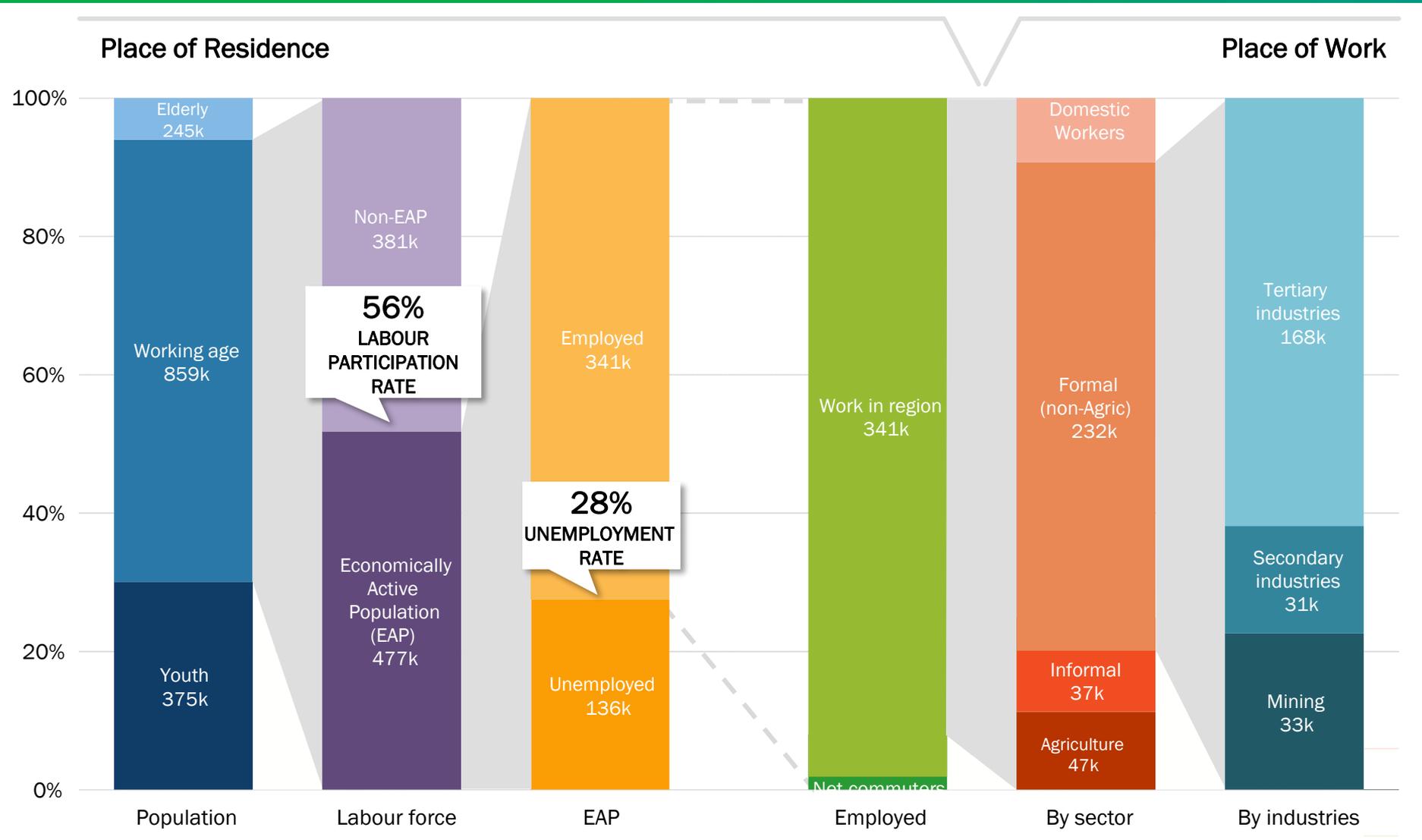
Regional Labour Estimates

Final Output



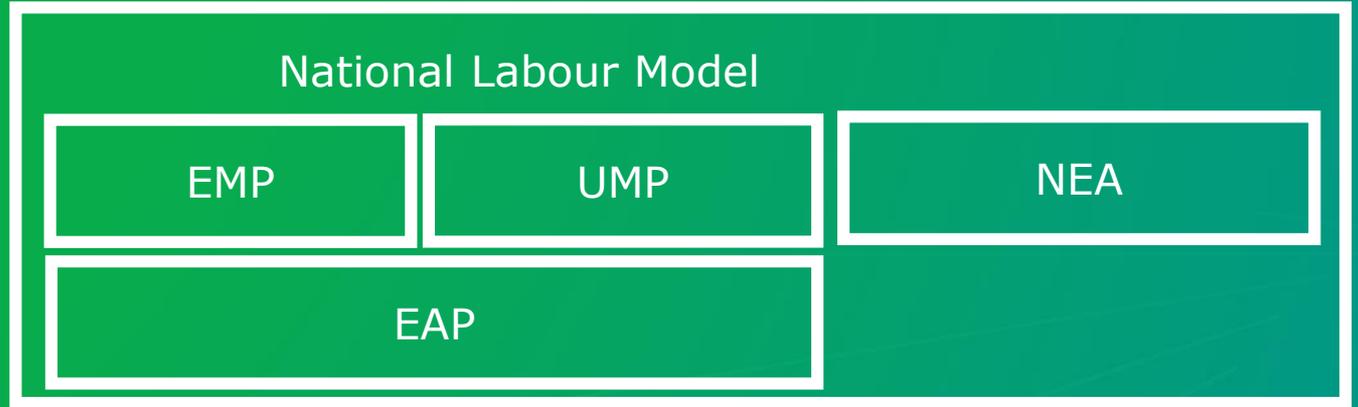
"Place of Work VS Residence"

Northern Cape- Labour Dynamics, 2018

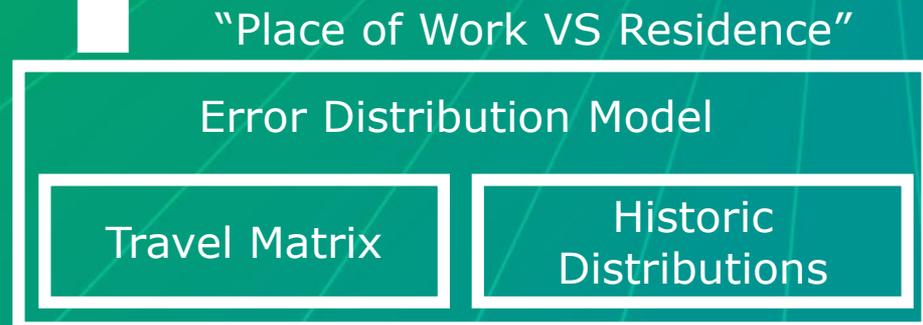
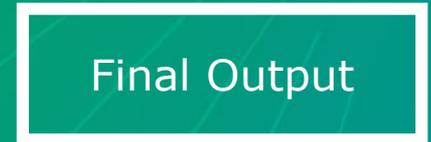


Various Inputs: OHS, LFS, QLFS, Industry Surveys, Minerals Bureau & Census Distributions

Labour

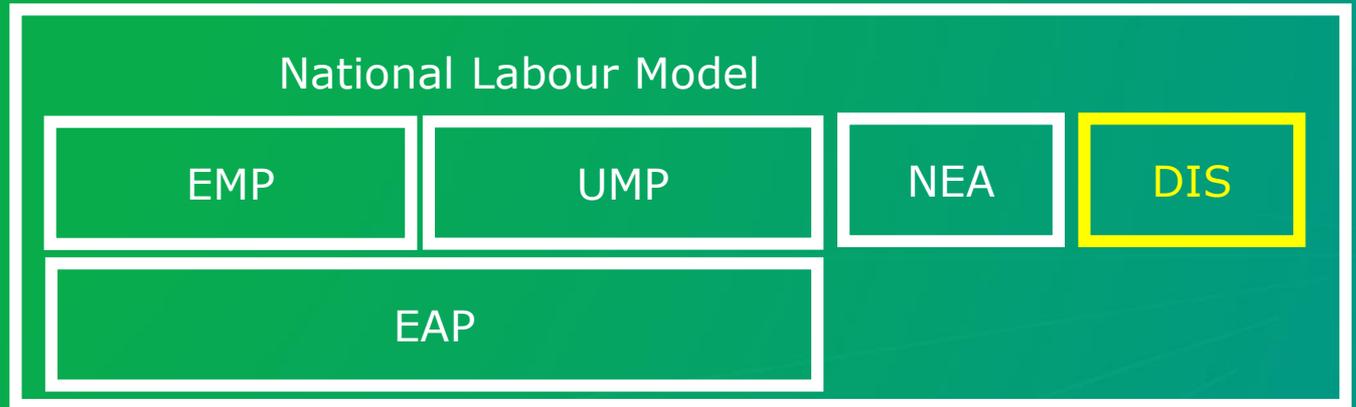


"Definitions: Strict VS Broad"



Various Inputs: OHS, LFS, QLFS, Industry Surveys,
Minerals Bureau & Census Distributions ²⁴

Labour



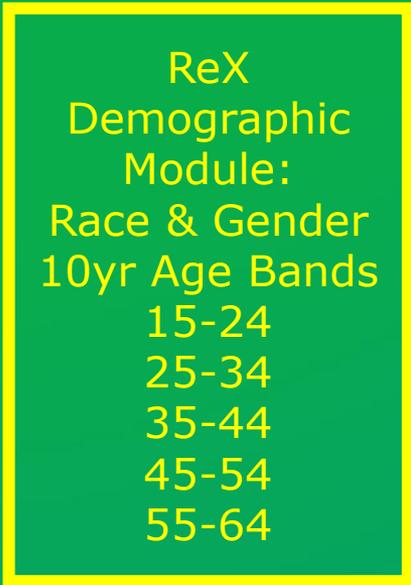
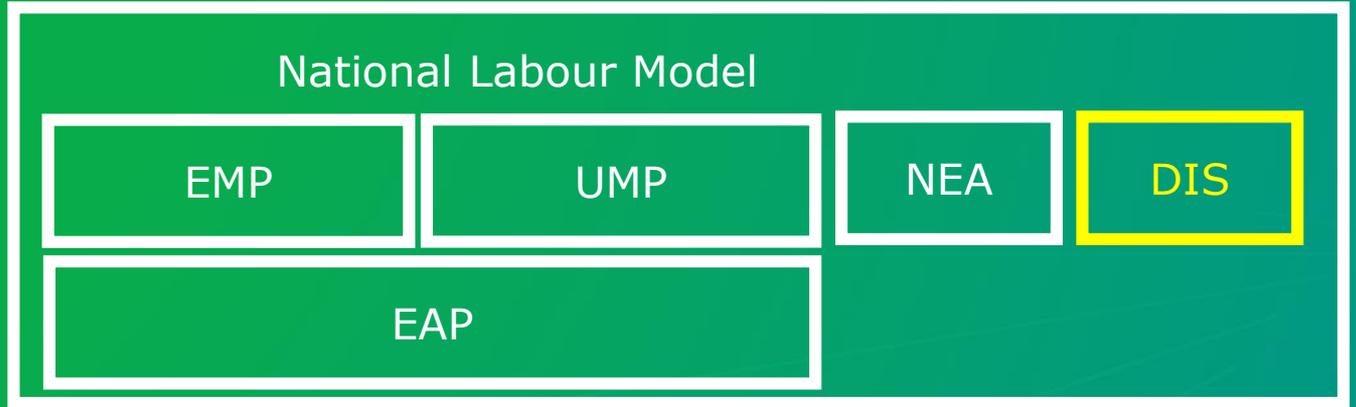
"Definitions: Strict VS Broad"



"Place of Work VS Residence"

Various Inputs: OHS, LFS, QLFS, Industry Surveys, Minerals Bureau & Census Distributions

Labour



"Definitions: Strict VS Broad"



"Place of Work VS Residence"



REGIONS



-  National Total
-  Provinces (2011 boundaries)
-  Metropolitan Municipalities (2011 bo
-  District Municipalities (2011 boundar
-  Local Municipalities (2011 boundarie
-  Metropolitan sub-areas (2011 bounc
-  Provinces (2016 boundaries)
-  Metropolitan Municipalities (2016 bo
-  District Municipalities (2016 boundar
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-  Metropolitan sub-areas (2016 bounc
-  Standard Bank Areas
-  Standard Bank Catchment Areas (201
-  Standard Bank Catchment Areas (201
-  MIIF classification based on 2011 bo
-  MIIF classification based on 2016 bo
-  My own areas

0 Regions selected

VARIABLES



-  Demographic
-  Development
-  Household Infrastructure
-  Labour
-  Income & Expenditure
-  Economic
-  Tourism
-  International Trade
-  Environment
-  Crime
-  Fiscal

0 Variables selected 0 Charts selected



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6 Regions selected

VARIABLES



- Demographic
- Development
- Household Infrastructure
- Labour**
 - Key Labour Force Indicators
 - Year [1] 2018
 - Labour Indicators
 - Labour Force Characteristics
 - Economically Active Population (EAP)
 - Unemployment
 - Employment at place of work
 - Labour Overview - over time
 - Labour Glimpse
- Income & Expenditure
- Economic
- Tourism
- International Trade
- Environment
- Crime
- Fiscal

0 Variables selected 0 Charts selected



Key Labour Indicators 2018

2018	National Total	Northern Cape	DC09 Frances Baard	DC45 John Taolo Ga
Working Age Population	37 757 662	858 679	282 097	155 564
Labour Force	22 411 459	477 222	156 456	85 326
Employment (at place of residence)	16 281 696	341 358	106 600	62 608
Commuters (nett)	0	3 290	4 764	-3 892
Employment (at place of work)	16 281 696	344 649	111 364	58 716
Employment - Formal sector non-agricult	11 250 164	231 783	87 044	39 975
Employment - Informal sector non-agricul	2 880 639	37 355	10 779	5 068
Employment - Agriculture	863 932	47 365	5 170	8 079
Employment - Private Households	1 286 961	28 146	8 372	5 594
Unemployment - official definition	6 129 762	135 863	49 856	22 718
Not Economically Active - official definition	15 346 204	381 457	125 641	70 238
Not Economically Active - expanded difinition	12 628 505	306 685	99 377	56 284
Discouraged work seekers	2 717 699	74 772	26 264	13 954
Unemployment Rate - official definition	27.4%	28.5%	31.9%	26.6%
Unemployment Rate - expanded definition	35.2%	38.2%	41.7%	36.9%
Labour absorption rate	43.1%	39.8%	37.8%	40.2%
Labour force participation rate	59.4%	55.6%	55.5%	54.8%
Discouraged Rate	7.2%	8.7%	9.3%	9.0%
Regional eXplorer 1823 (2.6i)				

REGIONS



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6 Regions selected

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1 Variable selected 0 Charts selected



Youth Unemployment Rate 2018

Total		National Total	Northern Cape	DC09 Frances Baard	DC45 John Taolo Ga
2018					
	Male	49.5%	45.8%	58.3%	45.3%
	Female	58.8%	58.2%	66.9%	63.8%
2018					
	African	59.2%	51.3%	69.1%	62.2%
	White	21.0%	18.5%	15.8%	18.4%
	Coloured	43.4%	55.0%	60.9%	42.1%
	Asian	26.7%	39.4%	41.8%	20.5%

In Summary

- No survey is flawless and labour statistics should be carefully interpreted keeping the strengths and weaknesses of the survey in mind.
- The ReX Labour Module has been updated with:
 - > Discouraged workers
 - Unemployment rate - official & expanded.
 - > Labour characteristics by Age
 - Youth unemployment rate.

