A CATCHMENT STUDY AROUND THE LOCATION OF TVET COLLEGES.



PROVINCE: **GAUTENG**TVET COLLEGE: **South West Gauteng TVET College**

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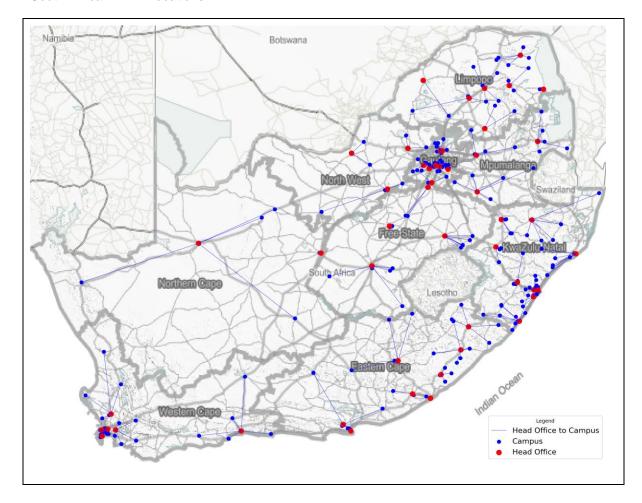
2 INTRODUCTION

The University of Western Cape requested a study on the Geographic Profiling of TVET colleges across South Africa. The purpose of this study was to profile each college to identify business and commercial activities within a nearby vicinity. As part of the study, AfriGIS sourced and prepared data in order to understand the economic potential in an area taken the current business footprint into account.

The outcome can be used as basis to improve/adjust course availability at specific study centrums to ensure successful employment after studies have been completed.

The below map shows the geographic distribution of the TVET colleges across South Africa

South Africa: TVET Locations

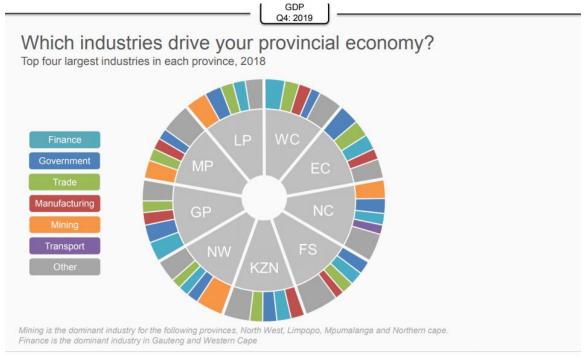


Some of the main industries especially looking at the asd Gross Domestic Product (GDP) are categorized under the following groups:

- Primary Industries
 - o Agriculture, forestry and fishing
 - Mining and quarrying
- Secondary Industries
 - Manufacturing
 - Electricity, gas and water
 - Construction
- Tertiary industries
 - o Trade, catering and accommodation
 - o Transport, storage and communication
 - Finance, real estate and business services
 - o Personal services
 - o General government services
 - All industries at basic prices
 - o Taxes less subsidies on products

Top 4 Industries in each Province: Sourced from StatsSA:

http://www.statssa.gov.za/publications/P0441/GDP%202019%20Q4%20(Media%20presentation).pdf







3 DATA AND METHODOLOGY

3.1 DATA

The geographic profiling considers factors such as business descriptions, points of interest and demographic data. The data was mainly sourced from CIPC (Companies and Intellectual Property Commission), StatsSA and AfriGIS.

3.1.1 CIPC

CIPC data was used to profile registered companies in the near vicinity of TVET colleges. The CIPC stores and maintain information of a vast list of registered companies. However, the task falls on the owner of each company to provide relevant information about the company. This includes providing a SIC Code which can be linked to a business category. Unfortunately, most of the SIC Codes provided links to a too broad description to be used in this study. There is however a business description field, which is used to describe what the business does. Therefore, most of the CIPC analysis was based on descriptions, rather than fixed categories.

3.1.2 STATISTICS SOUTH AFRICA (STATSSA)

StatsSA conducted a national census back in 2011. During this census StatsSA gathered, stored and processed a large volume of demographic data. The data included both personal and household information such as the total population, age, income, dwelling types, employment status and much more. StatsSA made the data available for public use on different geographical levels, of which the SAL or small area layer was the smallest geographical boundary which was used to convey census data to the public.

The current project therefore uses the SAL geographical boundaries to conduct the relevant census information. The role of demographic data in the current project are to provide economy and general living condition insights of the surrounding TVET college areas.

3.1.3 AFRIGIS

AfriGIS has a vast data store of many different types of geographical data such as political boundaries, a routable street central line and points of interest. The current study focusses on activity in an area and therefore obtained most of the information from the points of interest layer.

The points of interest layer have many different categories to describe the type of activity accompanied with geographical location information. The categories are described on 4 levels namely category, type 1, type 2 and type 3 where category is a broad description of the types and type 2 and type 3 are subcategories of the type 1 activity. The following describes the hierarchy of the category and type 1 fields:

POINTS OF INTEREST

CATEGORY: COMMERCIAL

TYPE 1: ACCOMMODATION

TYPE 1: AUTOMOTIVE

TYPE 1: COMMERCIAL

TYPE 1: ENTERTAINMENT

TYPE 1: FILLING STATION

TYPE 1: MINE

TYPE 1: PLANT

TYPE 1: RECREATION

TYPE 1: SERVICES

TYPE 1: STORES

CATEGORY: HUMAN INFRASTRUCTURE

TYPE 1: EDUCATION

TYPE 1: GOVERNMENT

TYPE 1: MEDICAL

TYPE 1: PLACE OF WORSHIP

TYPE 1: RESIDENTIAL

TYPE 1: SOCIAL SERVICES

TYPE 1: TOURISM ATTRACTION

TYPE 1: TRANSPORTATION

Type 2 have 401 subcategories of Type 1 such as Fast food outlets, Shopping Centre and Mobile. Type 3 have a further 1322 subcategories of Type 2 such as KFC, Mcdonalds, Hyper Centre, Neighbourhood Centre, Vodacom, MTN etc.

The points of interest layer also contains a spatial confidence level which describes the spatial accuracy of each point. The confidence levels are as follows:

Confidence Level Technical Description

- 1 Accurate Erf-Portion Level
- 2 Erf Level
- 3 Street Corner
- 4 Within 5 of Street Number
- 5 Street Name & Suburb
- 6 SG Town
- 7 Suburb
- 8 Town
- 9 Municipality or District
- 10 Province

Due to the nature of the current project it was decided to include points of interests with a confidence level of 7 and below.

3.2 METHODOLOGY

3.2.1 CATCHMENT AREA

A catchment area around each TVET college was created using various straight line distances. The distances included in the current study were:

- 0km to 2km
- 2km to 5km
- 5km to 10km
- 10km to 15km
- 15km to 30km
- 30km to 50km

Note: For display purposes, the 0km to 2km and 2km to 5km were combined in the map legend.

3.2.2 INFOGRAPHICS

The first set of infographics are based on the CIPC data. All registered business within each catchment distance were extracted and analyzed per college. Key words were extracted from the description field within the CIPC data. The key words were then grouped and sorted by the count of times used. Only the top 20 words are presented in the graphs. A word cloud was also generated using the count of each word as a size scale.

The second set of infographics are created from the census data. The demographic data were extracted from all the SAL center points within each distance band from the TVET College. This includes dwelling types, household income bands and employment status.

The third set of infographics are analyzed from the AfriGIS points of interest layer. This includes the top 20 Type 1 and Type 2 categories in points of interest as well as the top 20 Type 2 and Type 3 of the points of interest belonging to the commercial category. Furthermore, the following list of types of points of interest were also excluded from the commercial points. These types were found to be prominent at most colleges but is too general or have no found to be none essential to the current study.

Points of interest types excluded from commercial analysis:

- Stores
- Entertainment
- Clothing
- Restaurant
- Fast Food Outlets
- Supermarket
- Specialty food
- Liquor
- Shoes
- Convenience
- Shopping Centre
- Ticket Station
- Other

3.2.3 INFOGRAPHIC VISUALS

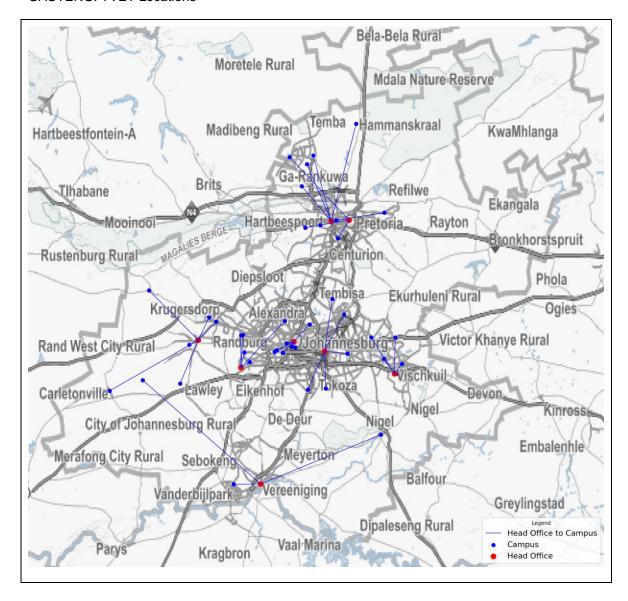
This document contains three main visual infographic types in order to explain and simplify the amount of data to the reader. The visual types of infographics are maps, graphs and word clouds.

The maps display the locations of each of the TVET colleges as well as straight line distances from each college. The distance bands were divided into 2, 5, 10, 15, 30 and 50km bands. The graphs depict counts of CIPC, demographic and points of interest data within each of the latter mentioned bands. Word cloud infographics display and quantify the most frequent used words. The word cloud was generated using business descriptions, demographic types and points of interest categories within 30km in the Gauteng, Western Cape and Kwa-Zulu-Natal Provinces and 50km in the Northern Cape, Eastern Cape, Free State, Limpopo and Mpumalanga Provinces.

4 GAUTENG

4.1 PROVINCE OVERVIEW

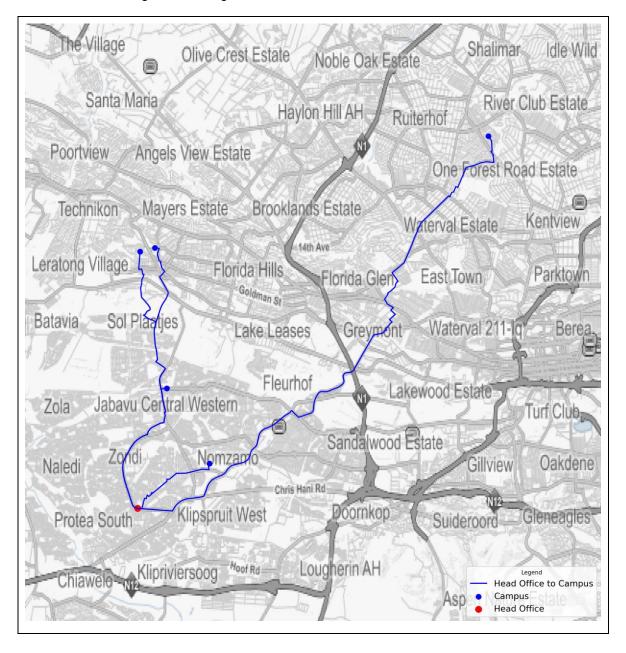
GAUTENG: TVET Locations



5 SOUTH WEST GAUTENG TVET COLLEGE

5.1 COLLEGE OVERVIEW

South West Gauteng TVET College: TVET Locations



5.2 DETAILED OVERVIEW OF EACH CAMPUS

5.2.1 SOUTH WEST GAUTENG TVET COLLEGE: HEAD OFFICE



Sub-Classification: Metropolitan

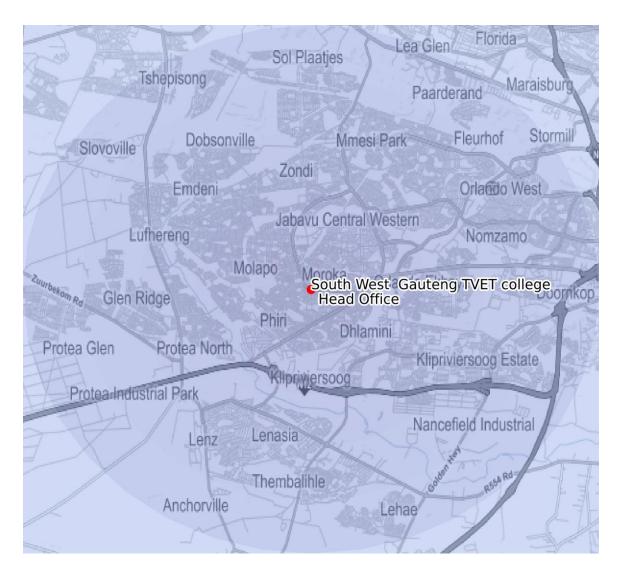
Location Confidence: 3 Province: Gauteng

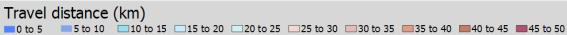
Municipality: City of Johannesburg Metropolitan Municipality (Soweto)

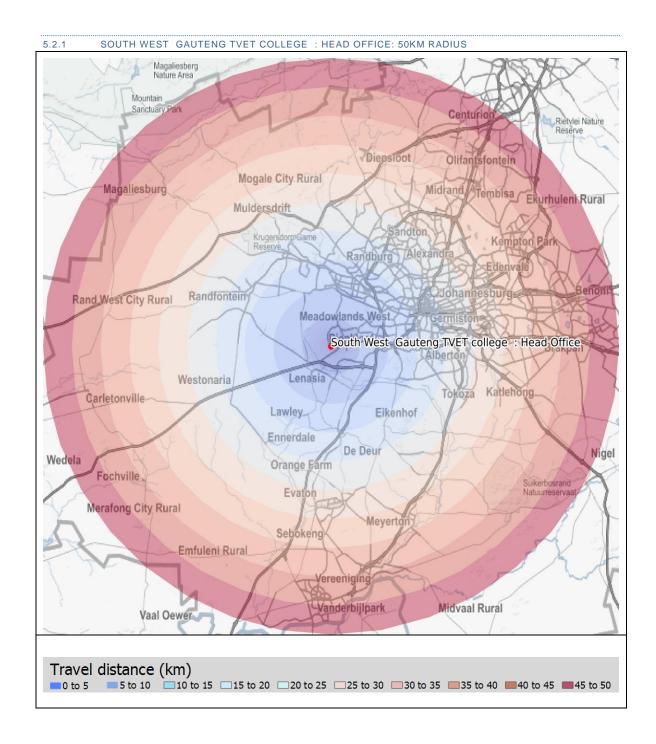
Town: Soweto

Address: 1822A Molele Street Cnr Koma road Soweto 1801

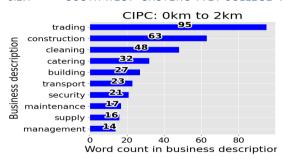
Head Office Travel Distance (km): 0.0 Head Office Travel Time (min): 0.0

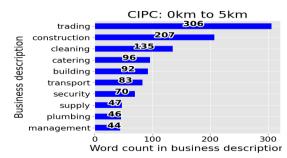


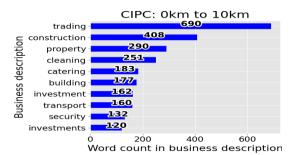


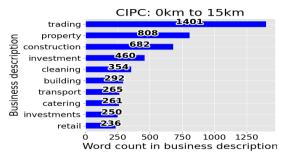


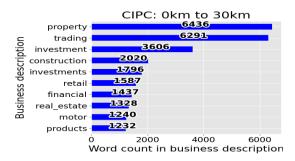
5.2.1 SOUTH WEST GAUTENG TVET COLLEGE: HEAD OFFICE: CIPC INFOGRPAPHICS

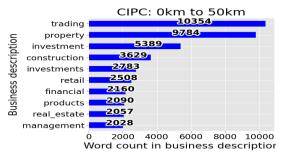




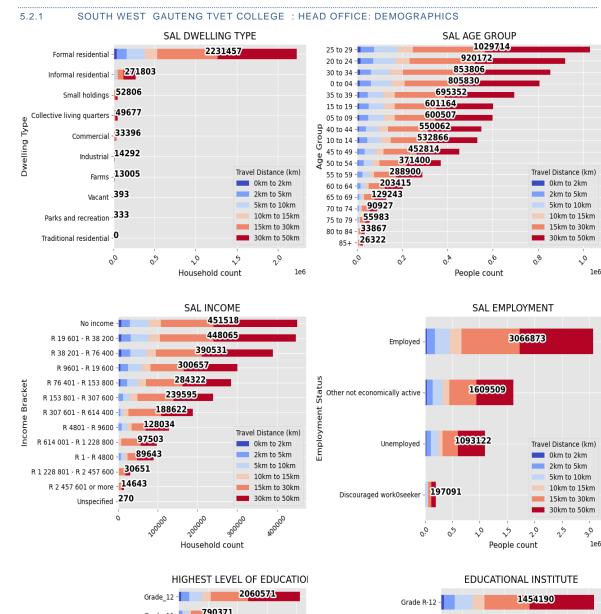


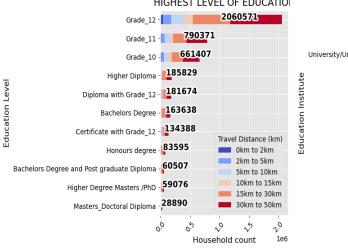


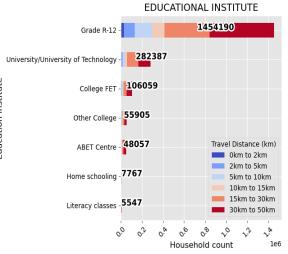


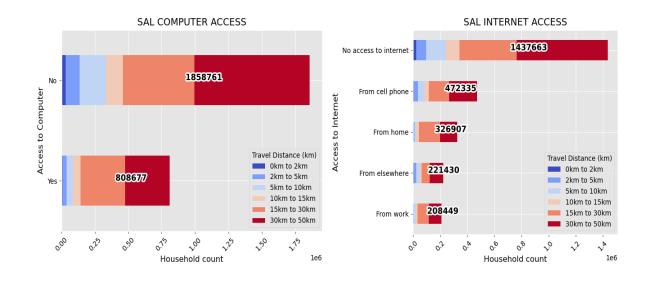




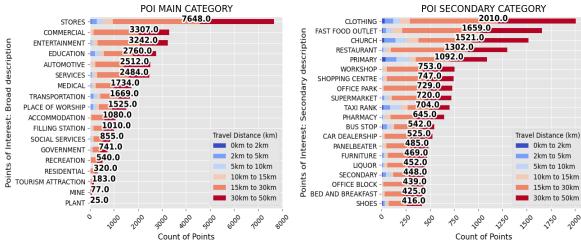


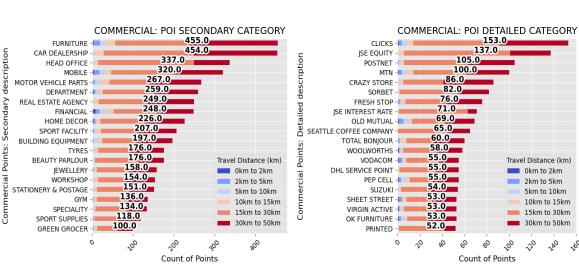














5.2.2 SOUTH WEST GAUTENG TVET COLLEGE: MOLAPO CAMPUS



Sub-Classification: Metropolitan

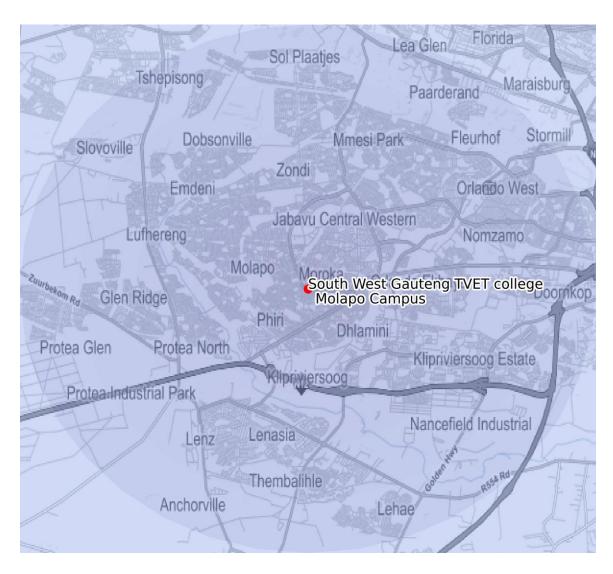
Location Confidence: 3 Province: Gauteng

Municipality: City of Johannesburg Metropolitan Municipality (Soweto)

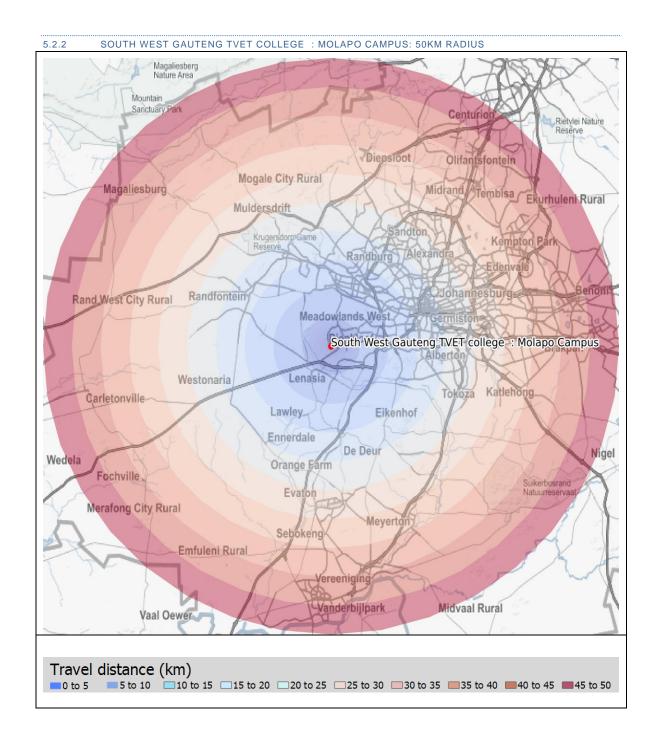
Town: Soweto

Address: 1822B Molele Street Cnr Koma Road Soweto 1801

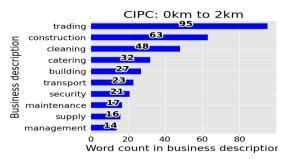
Head Office Travel Distance (km): 0.0 Head Office Travel Time (min): 0.0

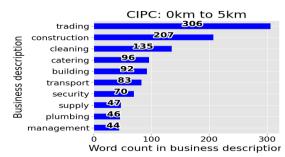


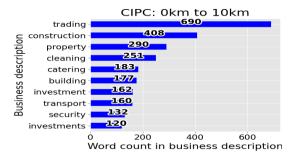


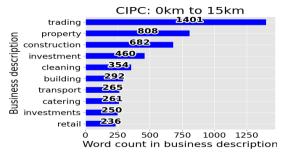


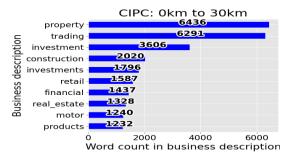
5.2.2 SOUTH WEST GAUTENG TVET COLLEGE: MOLAPO CAMPUS: CIPC INFOGRPAPHICS

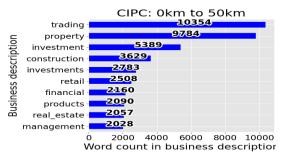


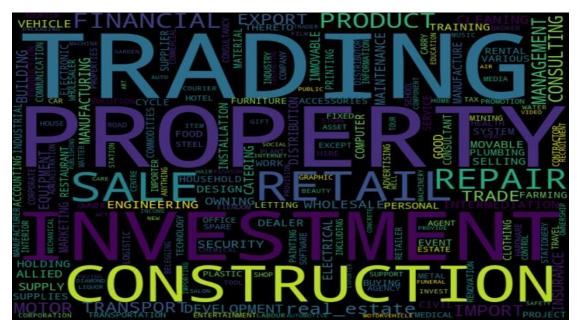




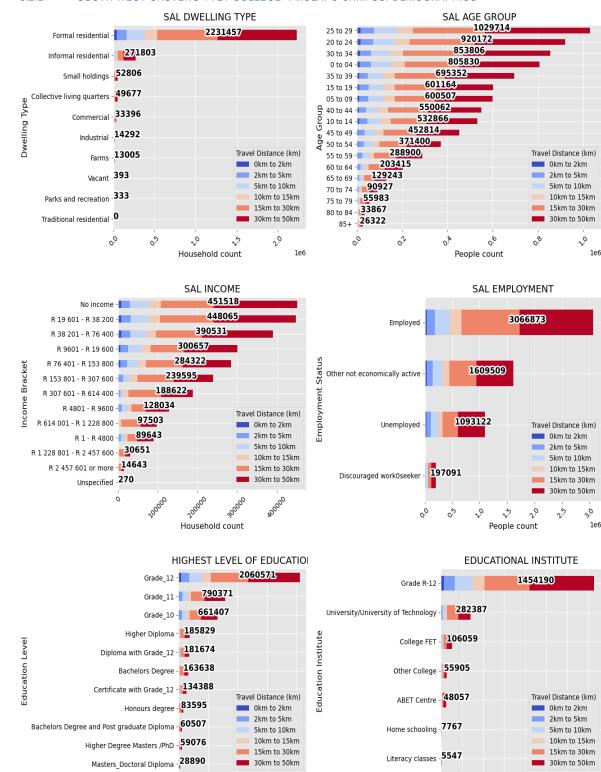








5.2.2 SOUTH WEST GAUTENG TVET COLLEGE: MOLAPO CAMPUS: DEMOGRAPHICS



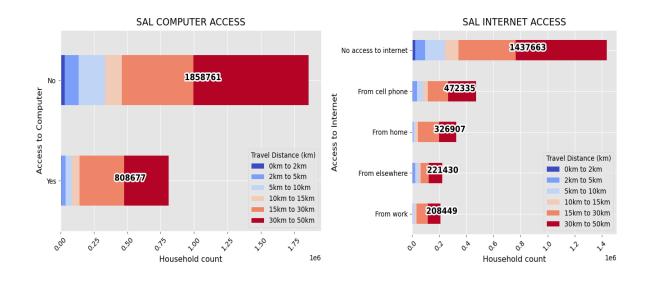
0,000 20 22

Household count

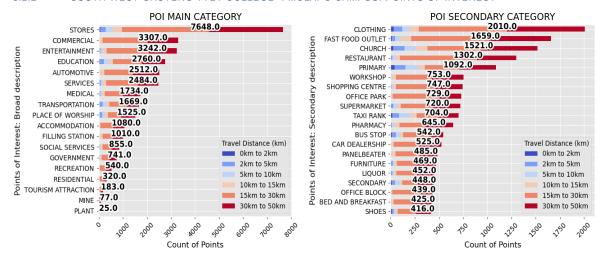
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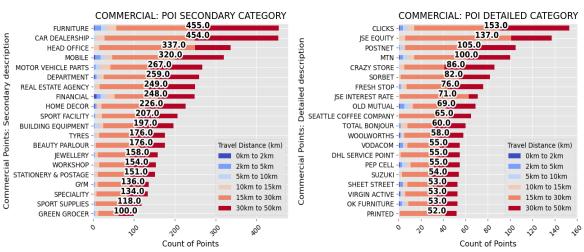
25

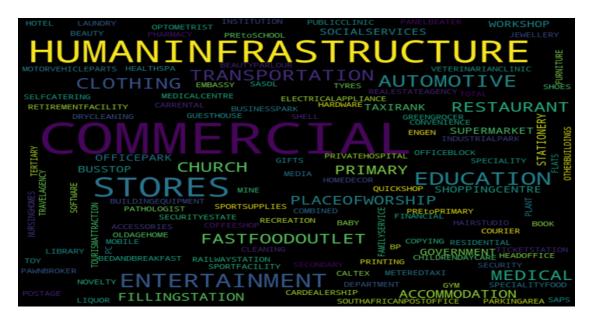
Household count











5.2.3 SOUTH WEST GAUTENG TVET COLLEGE: GEORGE TABOR CAMPUS



Sub-Classification: Metropolitan

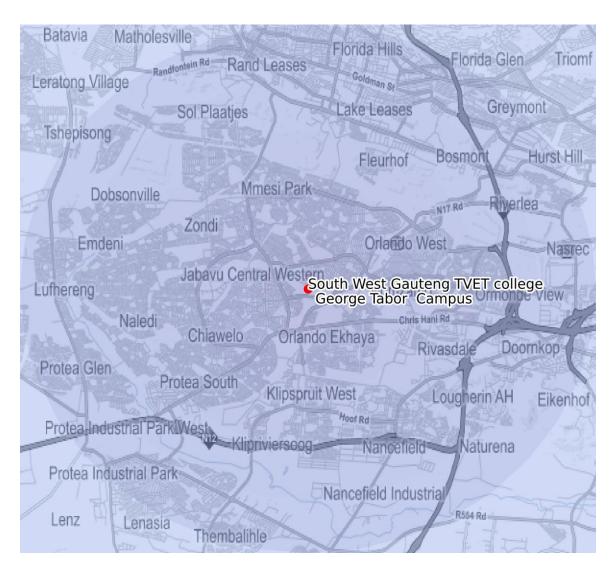
Location Confidence: 1 Province: Gauteng

Municipality: City of Johannesburg Metropolitan Municipality (Soweto)

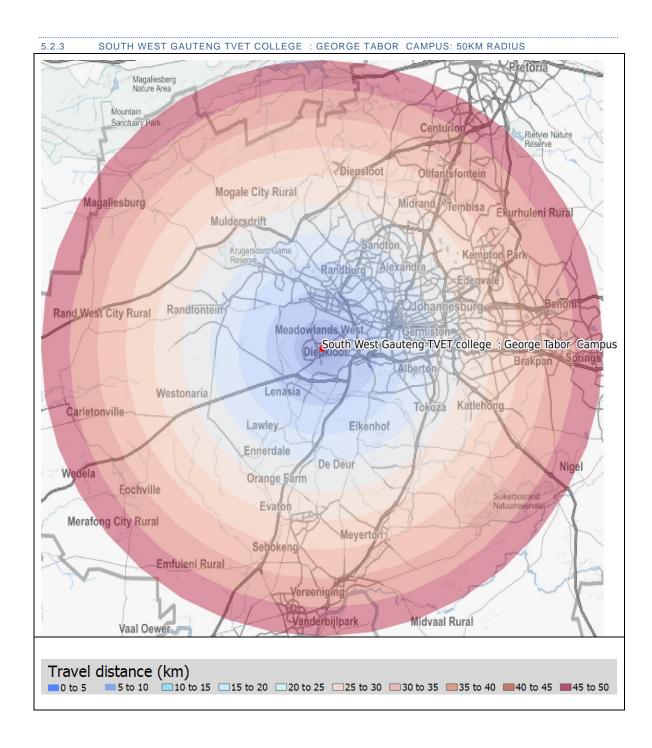
Town: Soweto

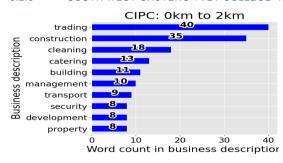
Address: 1440 Mncube DrIve Dube Soweto 1801

Head Office Travel Distance (km): 4.71 Head Office Travel Time (min): 11.45

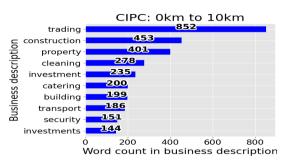


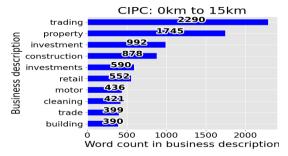


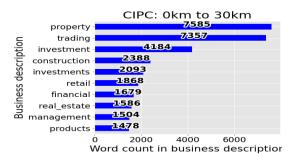


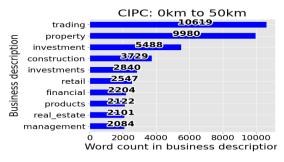


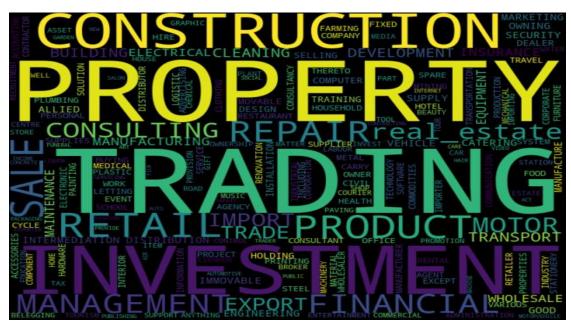


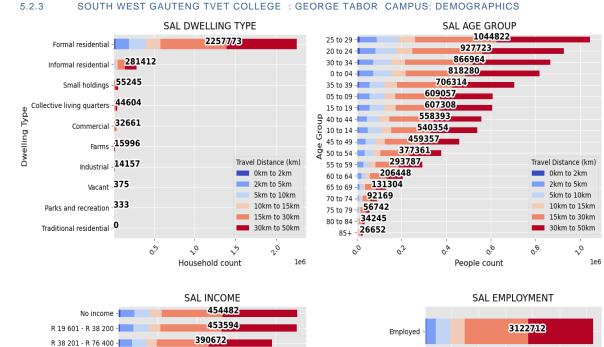


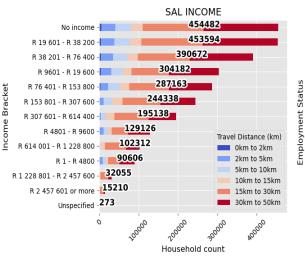


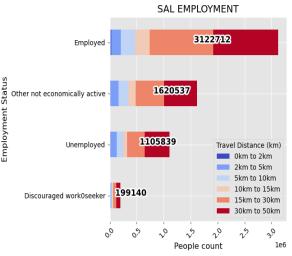


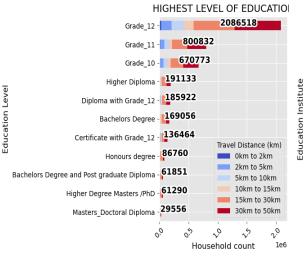


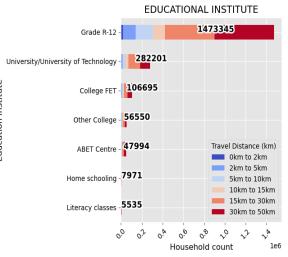


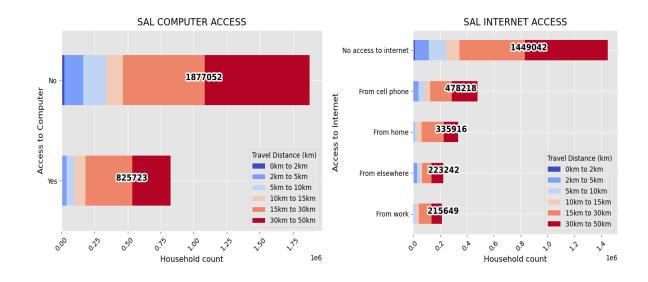


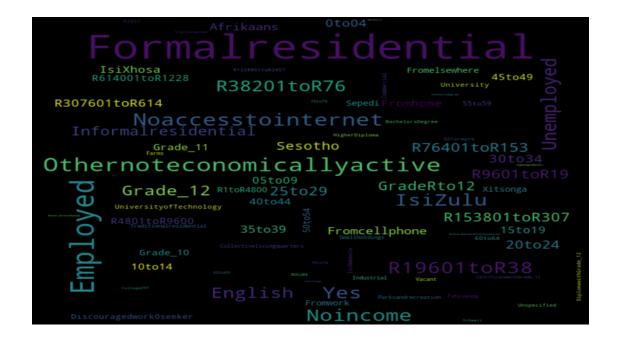


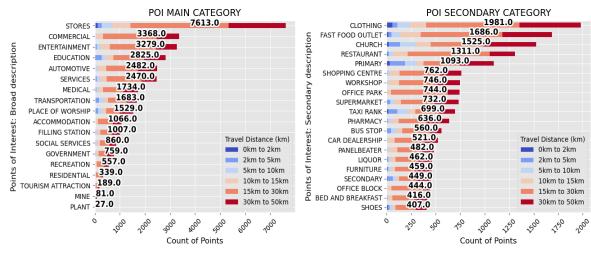


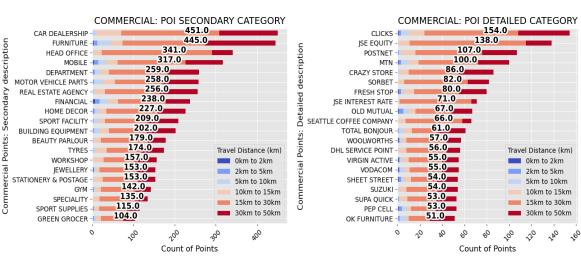














5.2.4 SOUTH WEST GAUTENG TVET COLLEGE: DOBSONVILLECAMPUS



Sub-Classification: Metropolitan

Location Confidence: 5 Province: Gauteng

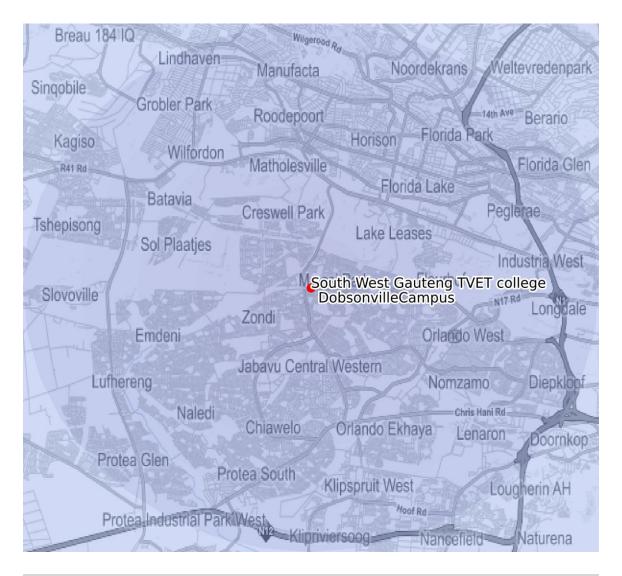
Municipality: City of Johannesburg Metropolitan Municipality (Soweto)

Town: Soweto

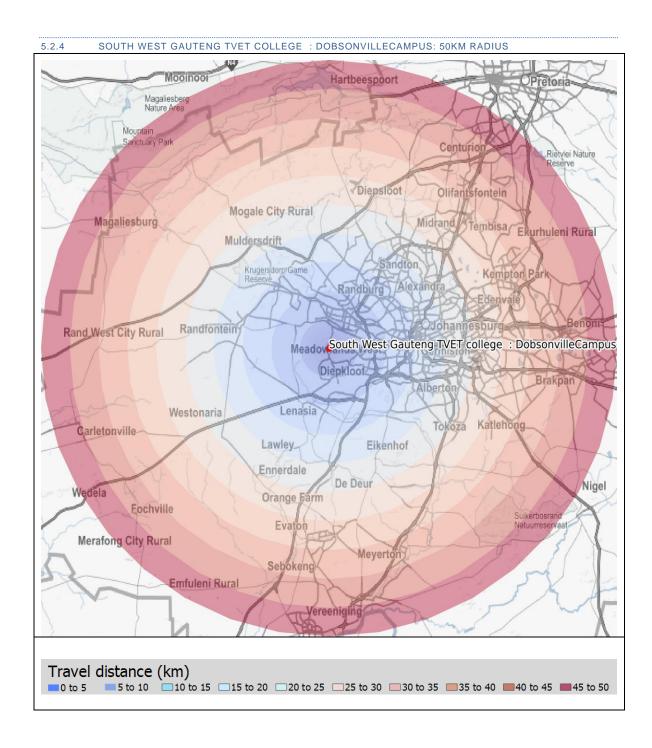
Address: 5604 Van Onselen Road Dobsonville

Johannesburg 1863

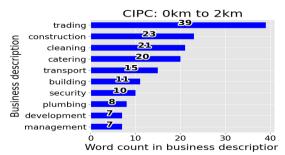
Head Office Travel Distance (km): 7.24 Head Office Travel Time (min): 11.5

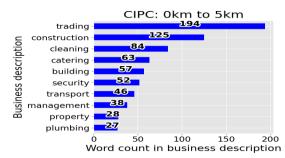




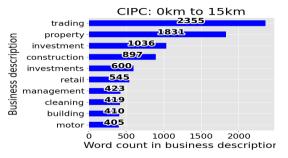


5.2.4 SOUTH WEST GAUTENG TVET COLLEGE: DOBSONVILLECAMPUS: CIPC INFOGRPAPHICS

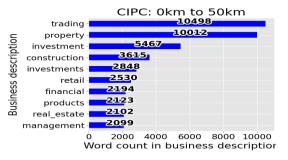


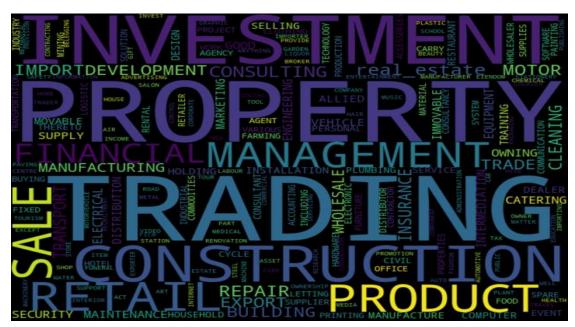




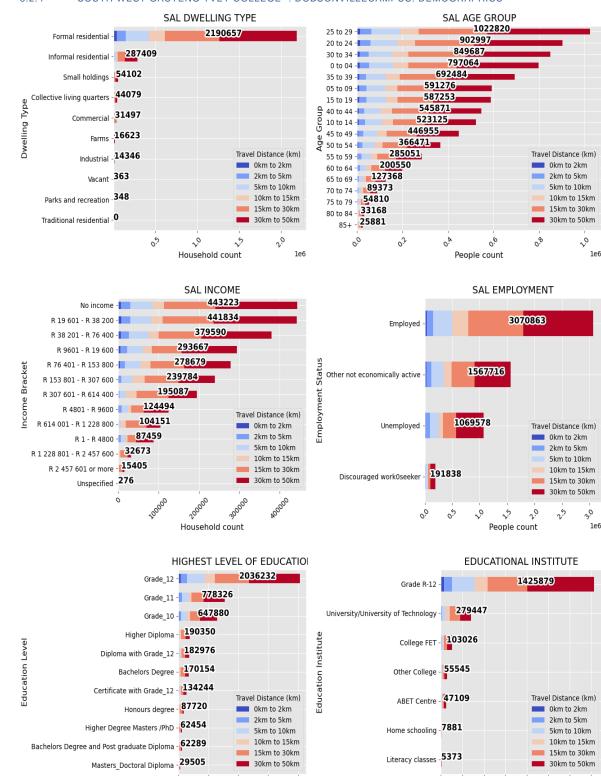








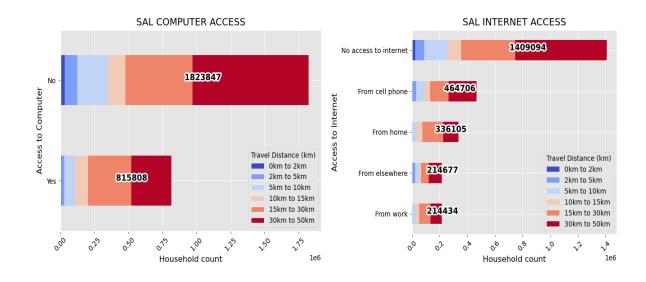
5.2.4 SOUTH WEST GAUTENG TVET COLLEGE: DOBSONVILLECAMPUS: DEMOGRAPHICS

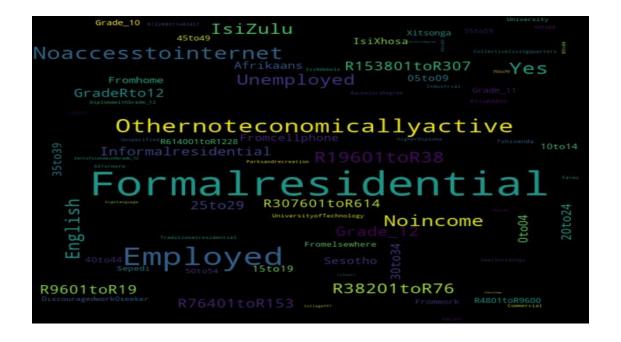


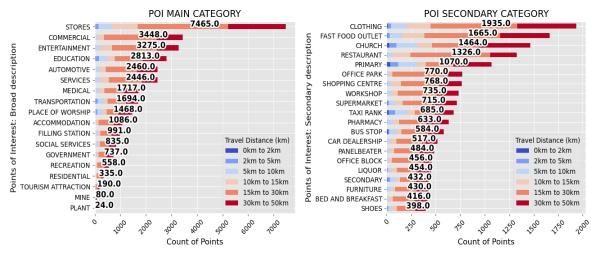
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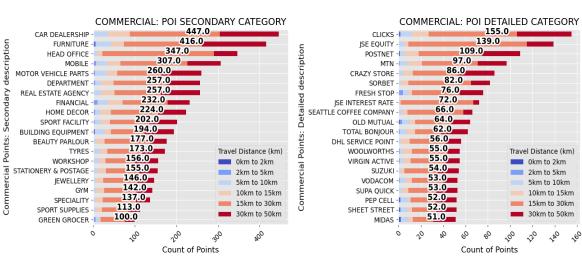
Household count

household count











5.2.5 SOUTH WEST GAUTENG TVET COLLEGE: ROODEPOORT WEST CAMPUS



Sub-Classification: Metropolitan

Location Confidence: 3 Province: Gauteng

Municipality: City of Johannesburg Metropolitan Municipality (Roodepoort)

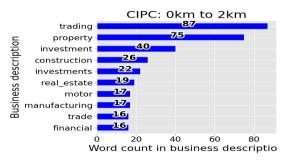
Town: Roodepoort

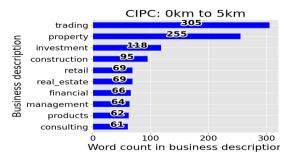
Address: 1 Hinda and Lawson Streets Roodepoort 1724

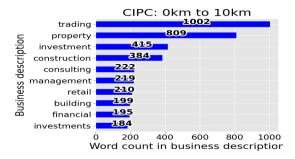
Head Office Travel Distance (km): 14.89 Head Office Travel Time (min): 29.29

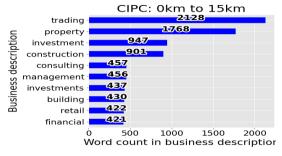
Chancliff Ridge Rulmsig Noord	Greengate Two Rivers Country Estate
Cradle Ridge Estate Poortvie	ew Honey Ridge Estate
Sugar Bush Estate Roodekrans	Santa Maria Le Mirage Randparkrif
Kenmare Wilro Park	Helderkruin Zinbali
Singobile Mindalore Princess	Westgate Park Strubens Valley
Chief Mogale Grobler Park	South West Gauteng TVET collegerario Roodepoort West Campus
Leratong Village Matholesvill	Goldman 8t Montclare
Tshepisong	Sol Plaatjes Lake Leases
	Fleurhof Stormill Mmesi Park
Slovoville Dobsonville	Orlando West Zondi Mahl St
Lufhereng	Jabavu Central Western Orlando East

Travel	distance	(km)							
0 to 5	5 to 10	10 to 15	□15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	■40 to 45	■ 45 to 50

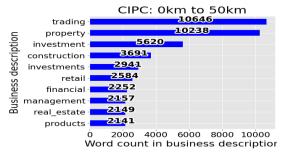


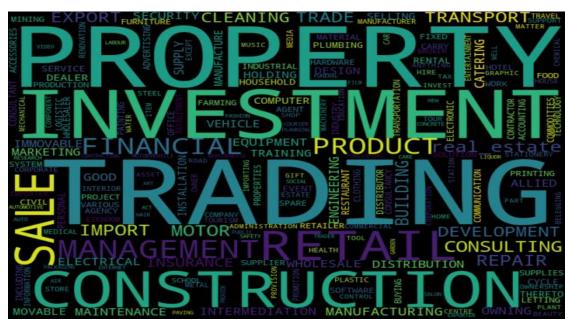




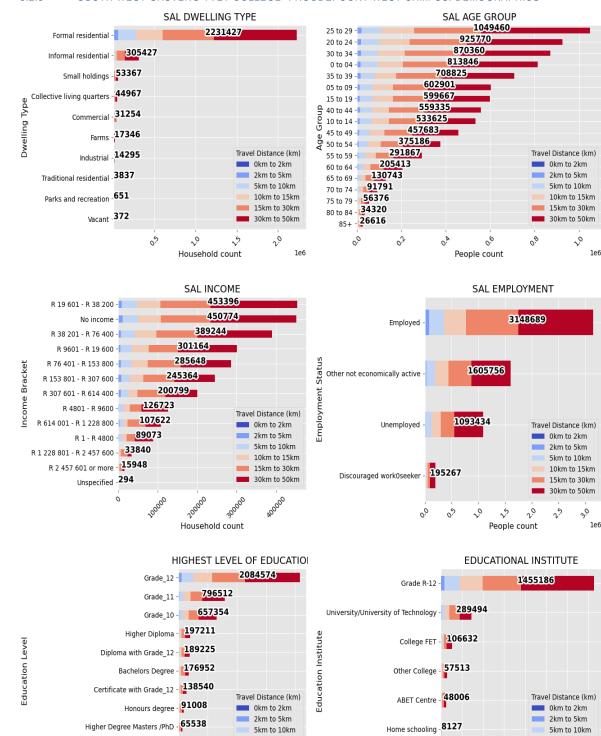








5.2.5 SOUTH WEST GAUTENG TVET COLLEGE: ROODEPOORT WEST CAMPUS: DEMOGRAPHICS



10km to 15km

15km to 30km

30km to 50km

3.5

Household count

Literacy classes - 5556

Bachelors Degree and Post graduate Diploma - 64437

Masters_Doctoral Diploma - 30690

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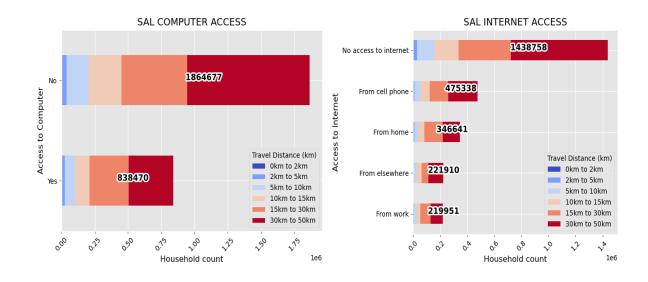
10km to 15km

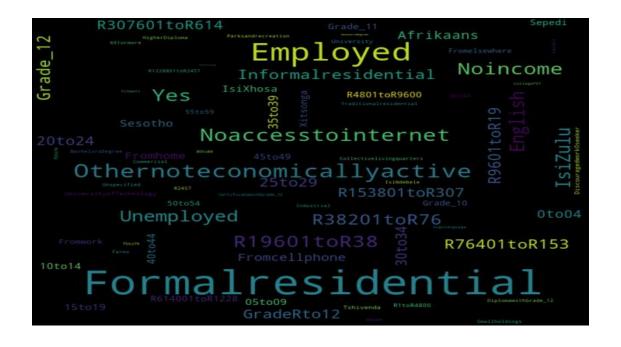
15km to 30km

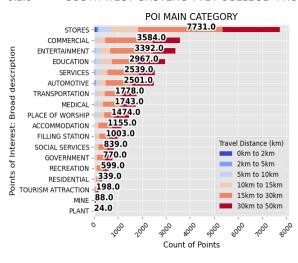
30km to 50km

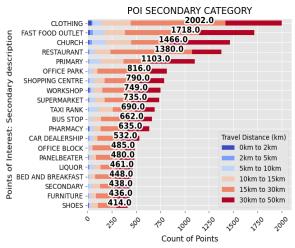
0,000 20 22

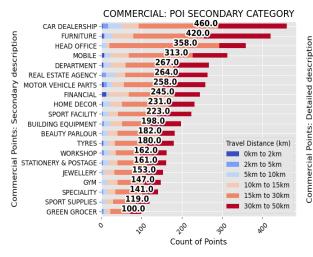
Household count

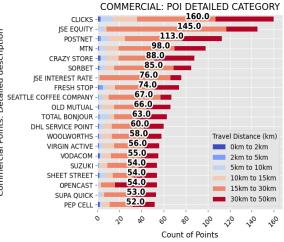














5.2.6 SOUTH WEST GAUTENG TVET COLLEGE: ROODEPOORT CAMPUS



Sub-Classification: Metropolitan

Location Confidence: 5
Province: Gauteng

Municipality: City of Johannesburg Metropolitan Municipality (Roodepoort)

Town: Roodepoort

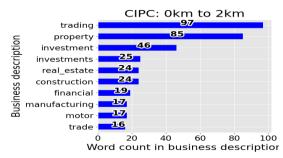
Address: Webber Street Horizon View Roodepoort 1724

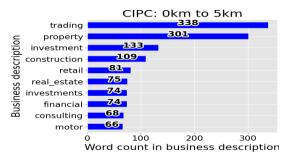
Head Office Travel Distance (km): 14.83 Head Office Travel Time (min): 26.27

Country Place	Pinehaven Col	untry Estate	Jackal Cre	ek Golf E	state
Cradle Ridge Estat	e The Village	Ruimsig	Honey Ridge	Estate	Sharonlea
Key West	Roodekrans	Santa Maria	Le Mira	ge	Kelly Ridge on Dayson AH
Mindalore	7865	Helderkruin	Zinbali		
Sinqobile	Princess Witpoortjie	Westgate Park South W Roode	Vest Gautencoort Camp	rubens Vá g TVET co ús ³¹¹⁵	
Chief Mogale	Batavia	Lake	Leases	Florida	Newlands Maraisburg
Tshepisong	Meadowlan	ds West Zone 8	Paarder	and	ndustria North
Slovoville	Meadowla	ands West Zone	Kobert		
Ton	Meadowlands Wes	st Zone 9 Du	be	eto Hwy	Noordgesig
Doornkop	bavu Central Wes	tern Mofolo (Central	rlando We	st

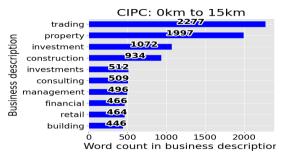
Travel	distance	(km)							
0 to 5	5 to 10	10 to 15	□15 to 20	20 to 25	25 to 30	30 to 35	35 to 40	■40 to 45	45 to 50

5.2.6 SOUTH WEST GAUTENG TVET COLLEGE: ROODEPOORT CAMPUS: CIPC INFOGRPAPHICS

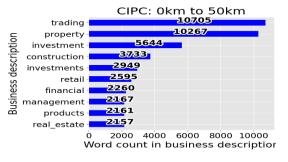






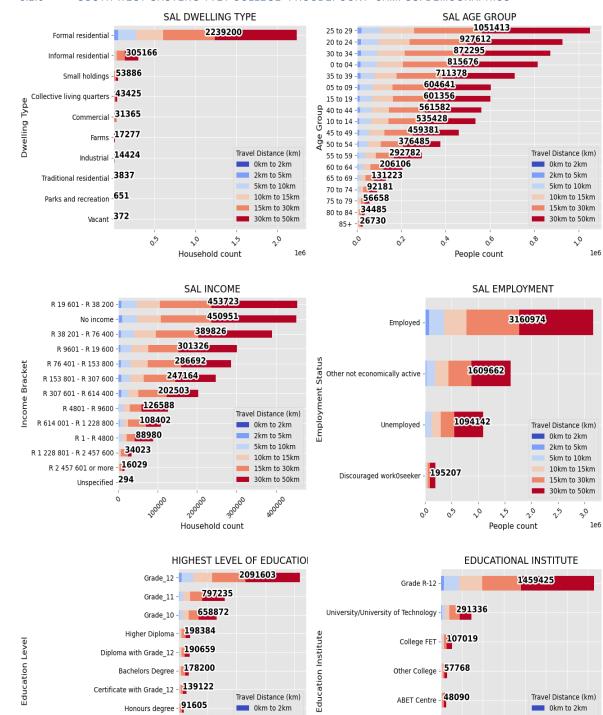








5.2.6 SOUTH WEST GAUTENG TVET COLLEGE: ROODEPOORT CAMPUS: DEMOGRAPHICS



2km to 5km

5km to 10km

10km to 15km

15km to 30km

30km to 50km

Household count

Higher Degree Masters /PhD - 65919

Masters_Doctoral Diploma - 30885

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Bachelors Degree and Post graduate Diploma - 64761

2km to 5km

5km to 10km

10km to 15km

15km to 30km

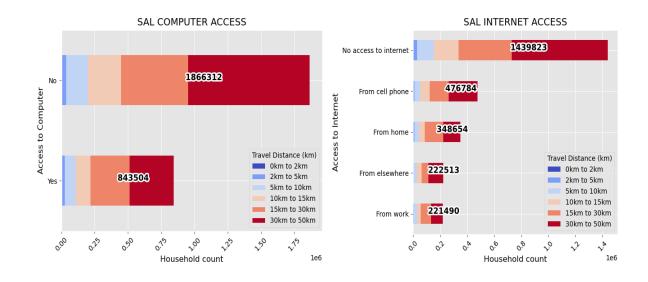
30km to 50km

0,0 0,0 20 2

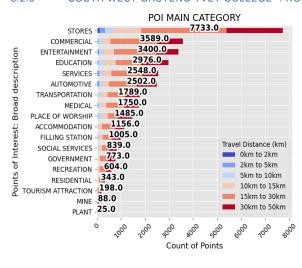
Household count

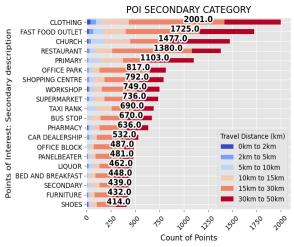
Home schooling -8163

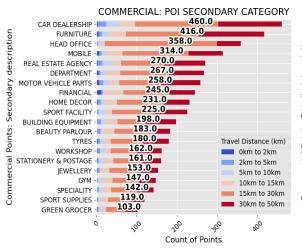
Literacy classes - 5559

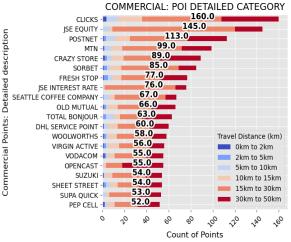














5.2.7 SOUTH WEST GAUTENG TVET COLLEGE: TECHNISA CAMPUS



Sub-Classification: Metropolitan

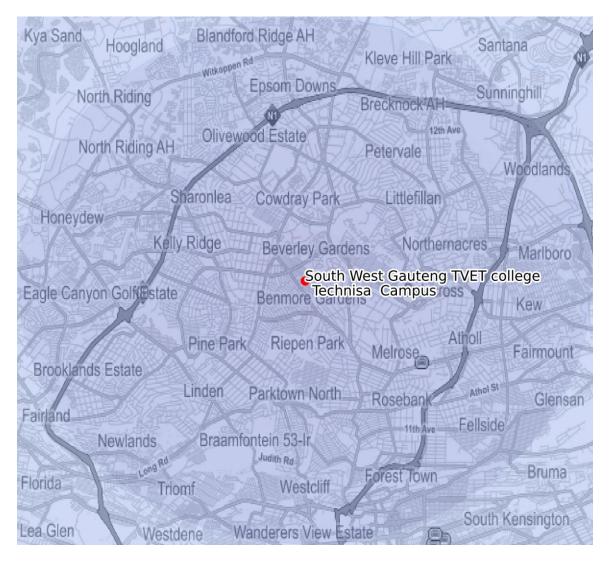
Location Confidence: 3 Province: Gauteng

Municipality: City of Johannesburg Metropolitan Municipality (Randburg)

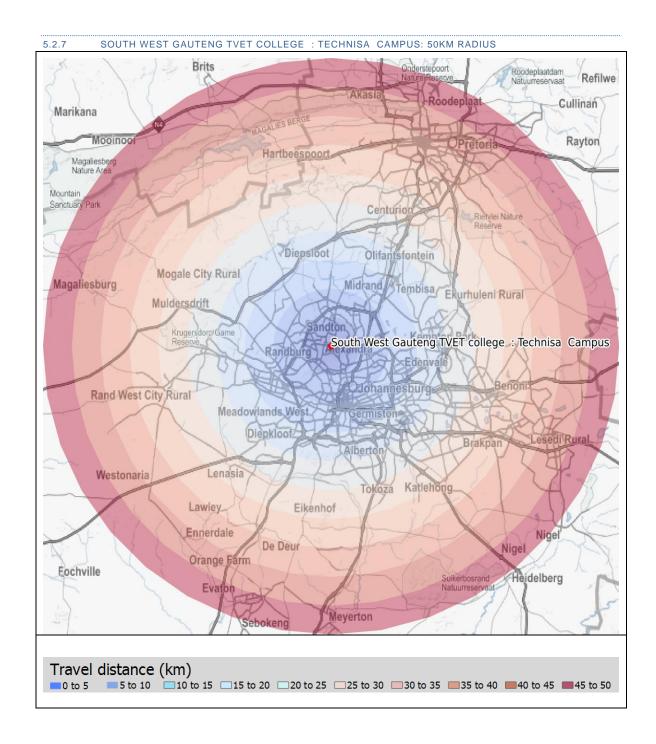
Town: Randburg

Address: Cnr Huguenot Avenue and Main Streets Bordeaux Randburg 2194

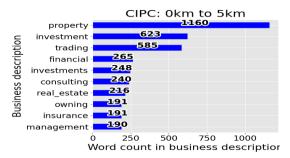
Head Office Travel Distance (km): 29.09 Head Office Travel Time (min): 44.85

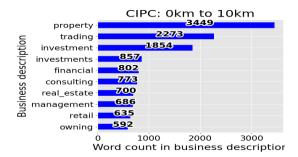


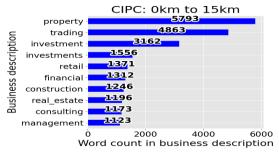


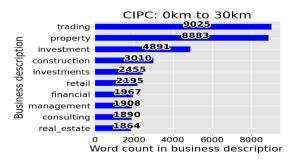




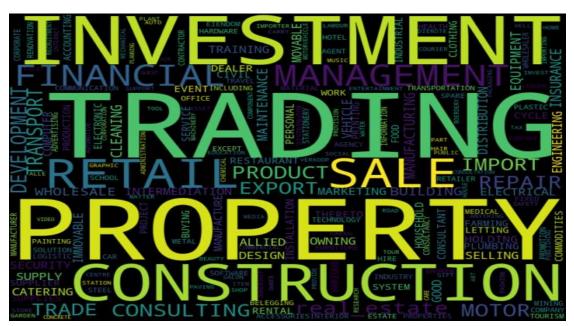




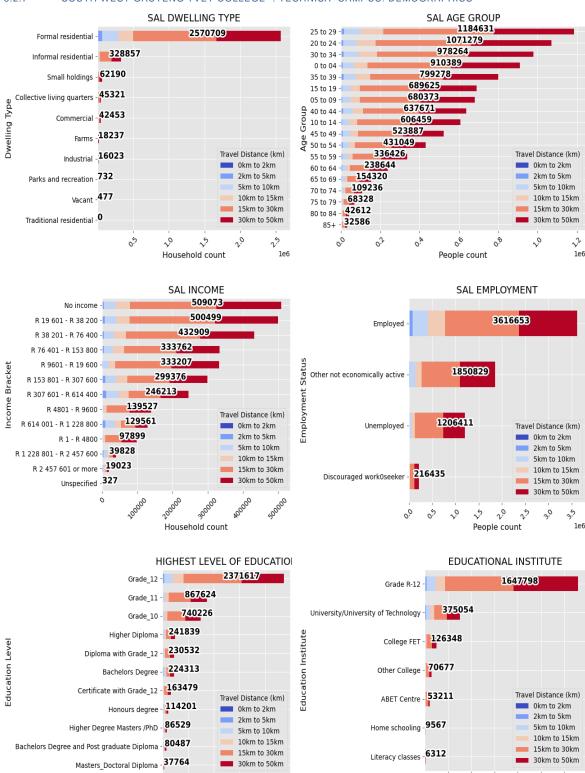






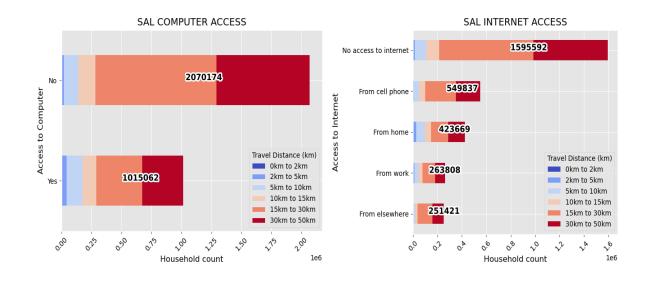


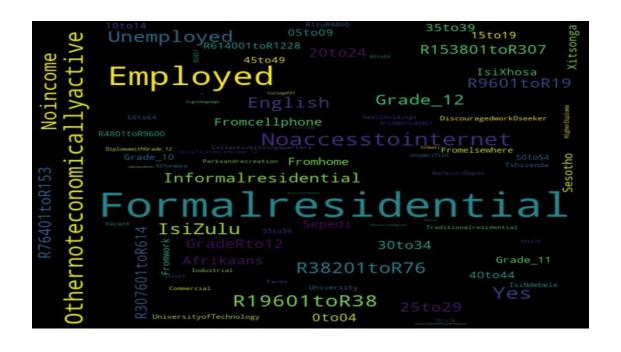
5.2.7 SOUTH WEST GAUTENG TVET COLLEGE: TECHNISA CAMPUS: DEMOGRAPHICS



ې پې کې Household count 2.25

Household count





5.2.7 SOUTH WEST GAUTENG TVET COLLEGE: TECHNISA CAMPUS: POINTS OF INTEREST

