

# A CATCHMENT STUDY AROUND THE LOCATION OF TVET COLLEGES.



UNIVERSITY *of the*  
WESTERN CAPE

PROVINCE: **WESTERN CAPE**  
TVET COLLEGE: **Boland TVET College**

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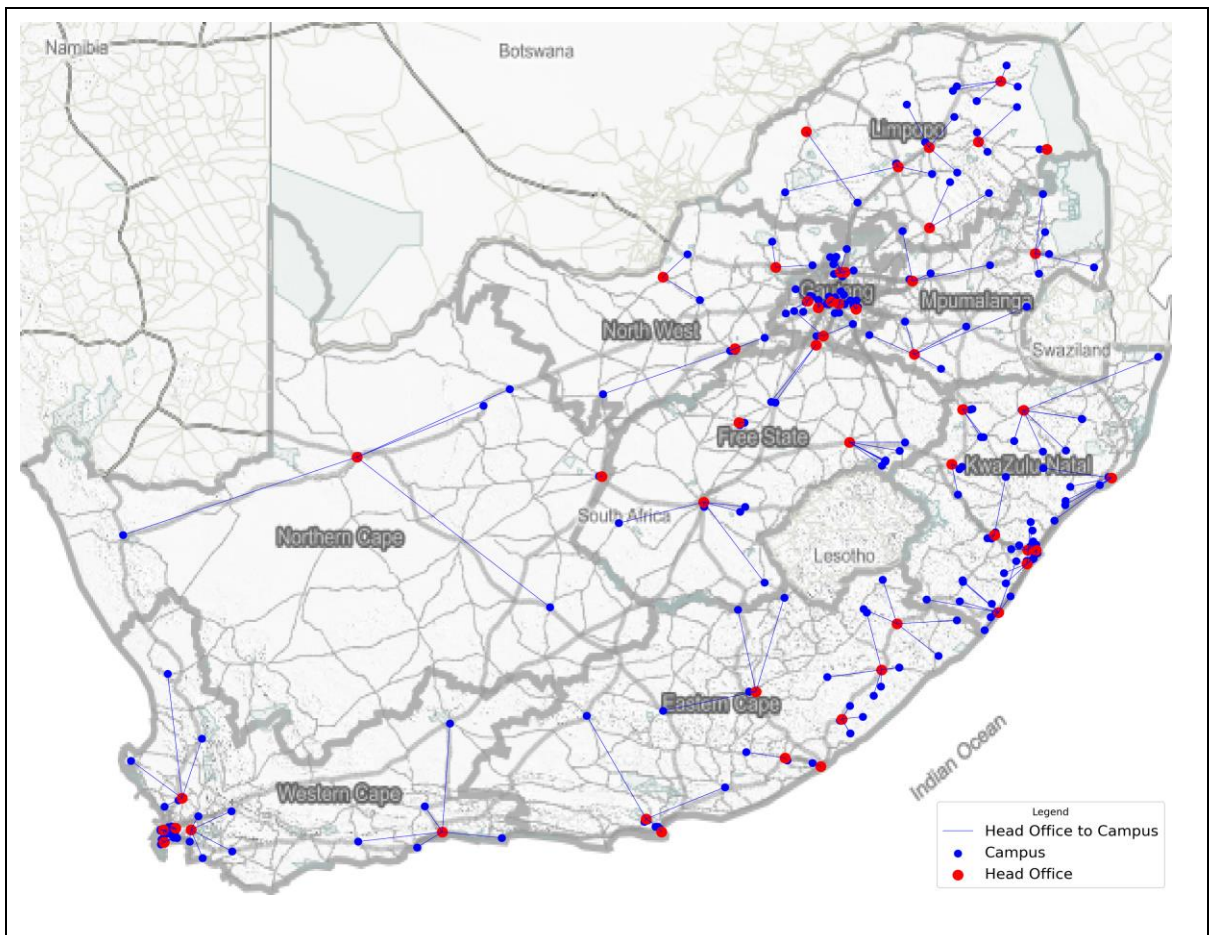
## 2 INTRODUCTION

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 centres 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

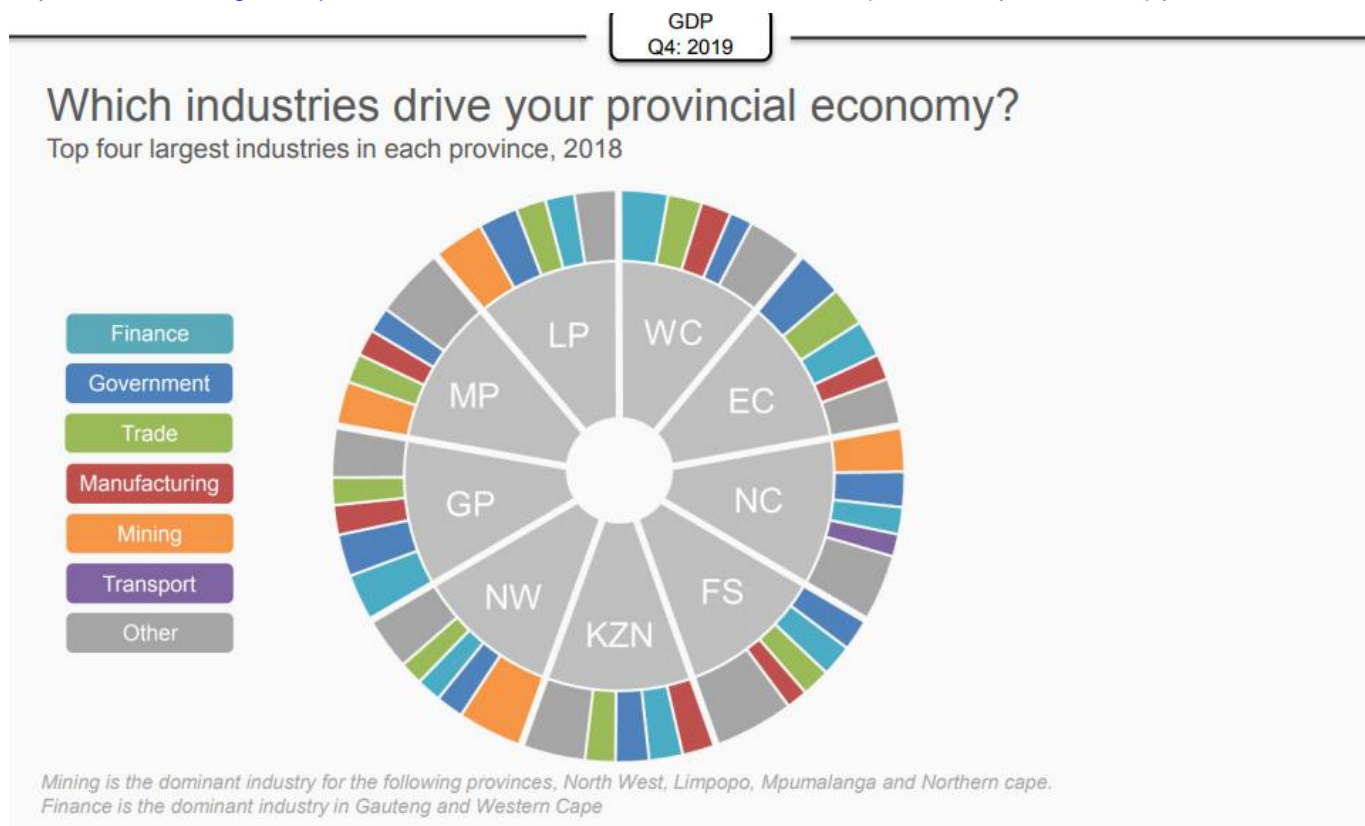


Some of the main industries especially looking at the asd Gross Domestic Product (GDP) are categorized under the following groups:

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

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#### 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.

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#### 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.

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### 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

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### 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.

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### 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

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### 3.2.3 INFOGRAPHIC VISUALS

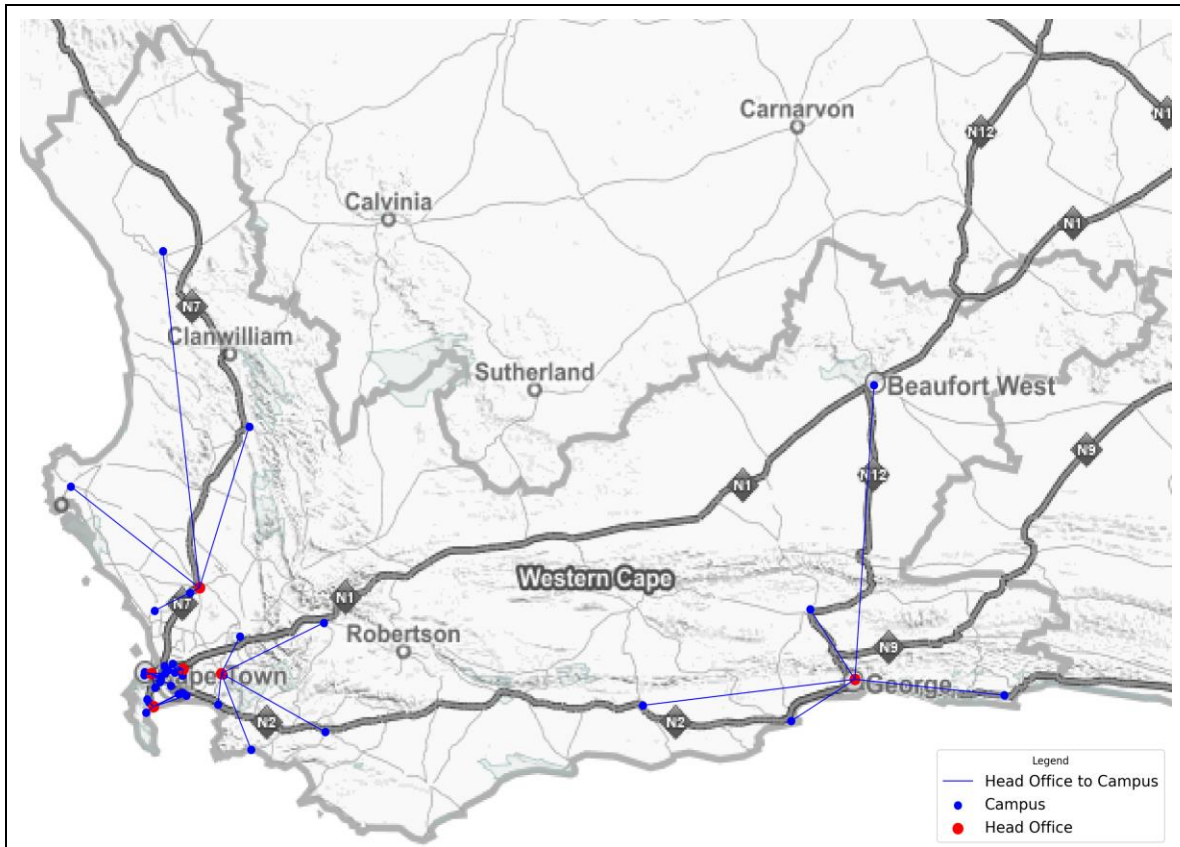
This document contains three main visual infographic types in order to explain and simplify the amount of data to the reader. The visual types of infographics are maps, graphs and word clouds.

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 WESTERN CAPE

### 4.1 PROVINCE OVERVIEW

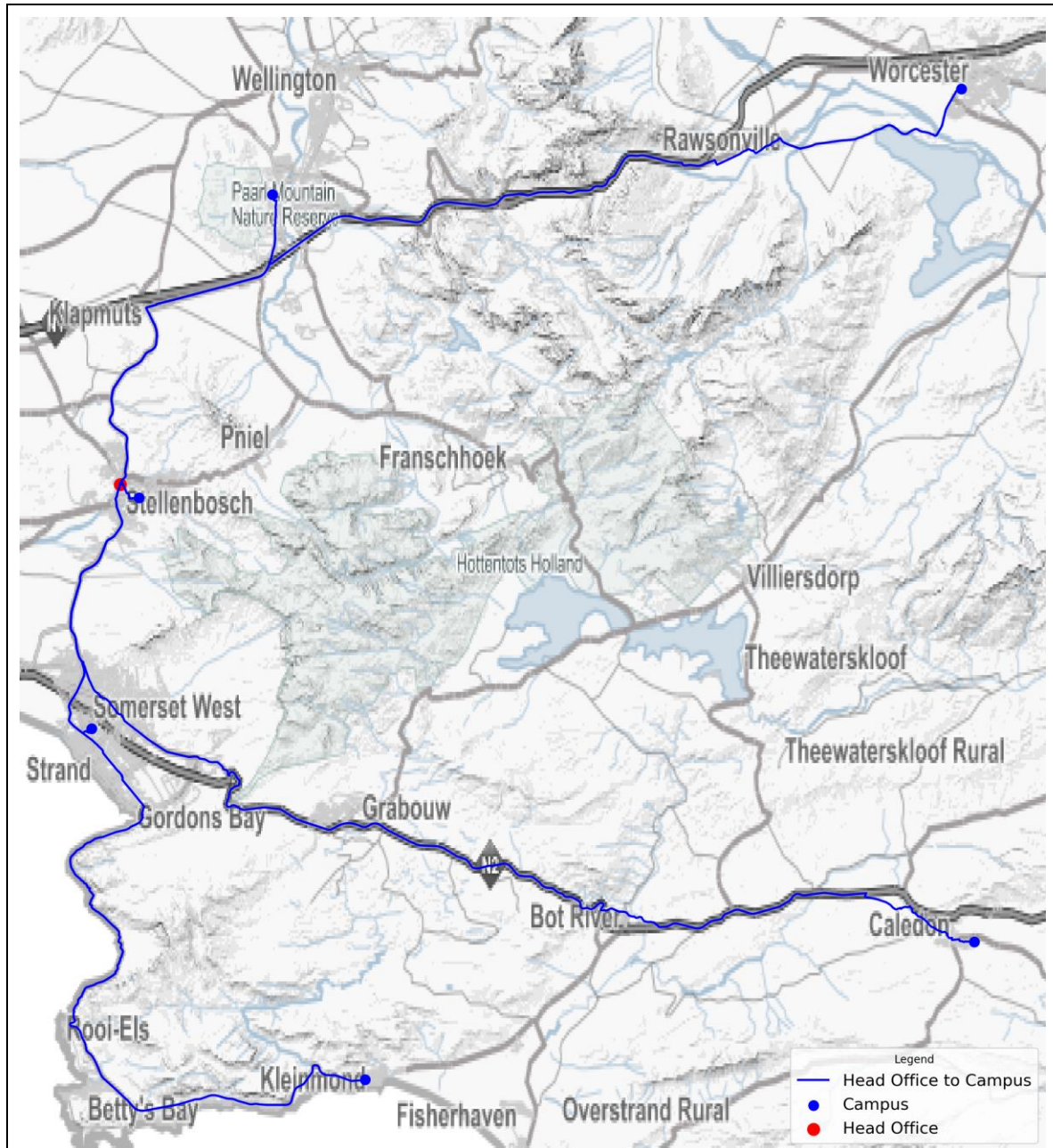
#### WESTERN CAPE: TVET Locations



## 5 BOLAND TVET COLLEGE

### 5.1 COLLEGE OVERVIEW

Boland TVET College: TVET Locations





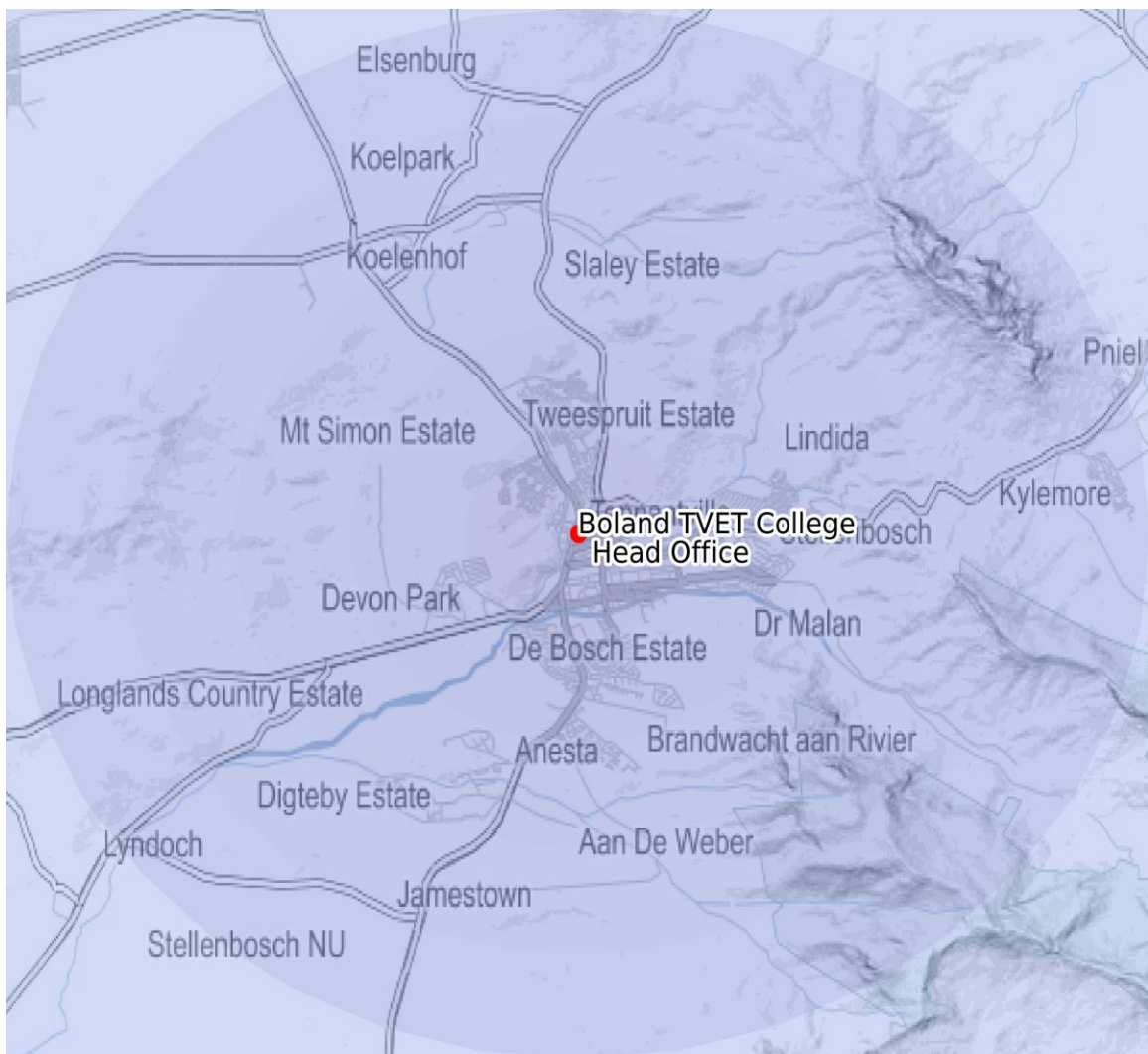
## 5.2 DETAILED OVERVIEW OF EACH CAMPUS

### 5.2.1 BOLAND TVET COLLEGE : HEAD OFFICE



UNIVERSITY of the  
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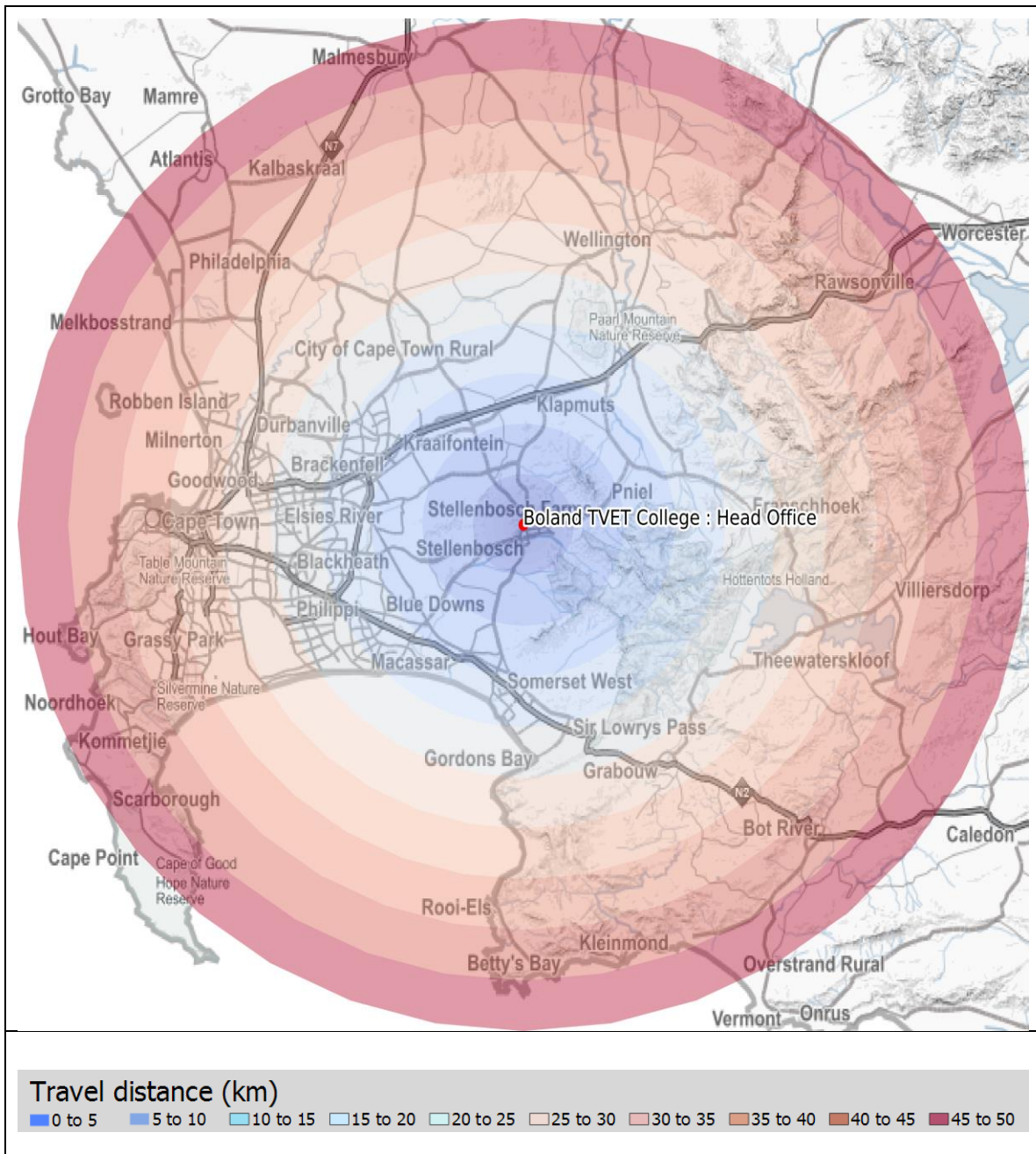
Sub-Classification: B 1  
Location Confidence: 1  
Province: Western Cape  
Municipality: Stellenbosch Local Municipality  
Town: Stellenbosch  
Address: 85 Bird Straat Stellenbosch 7600  
Head Office Travel Distance (km): 0.0  
Head Office Travel Time (min): 0.0



#### Travel distance (km)

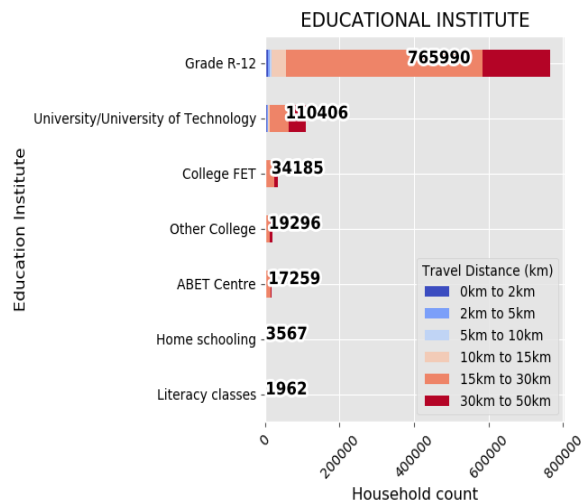
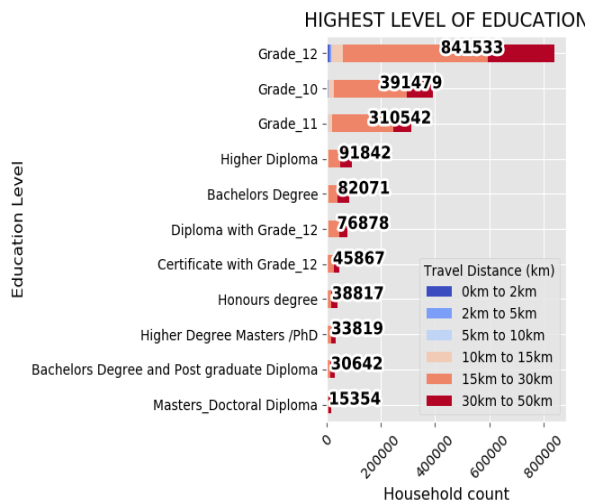
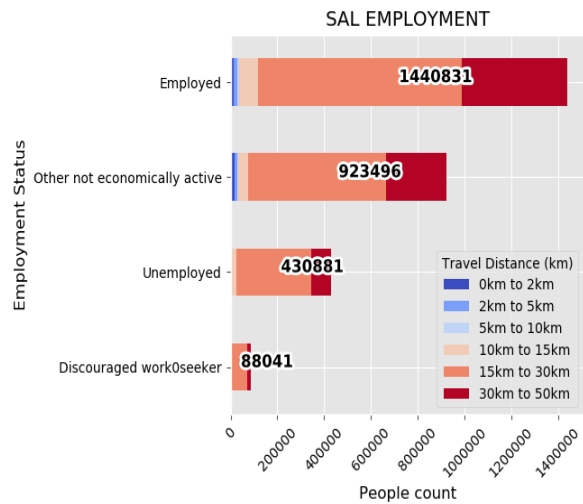
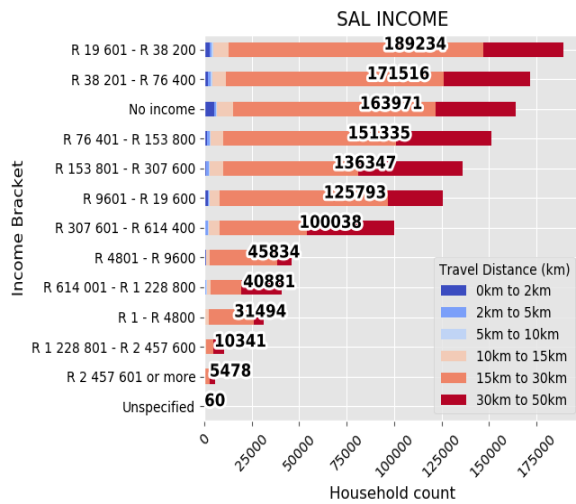
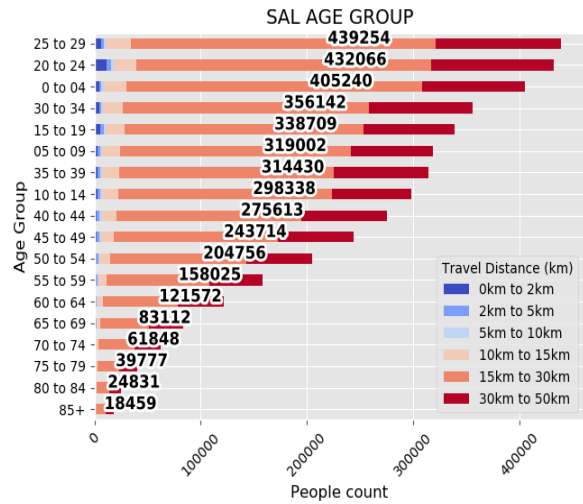
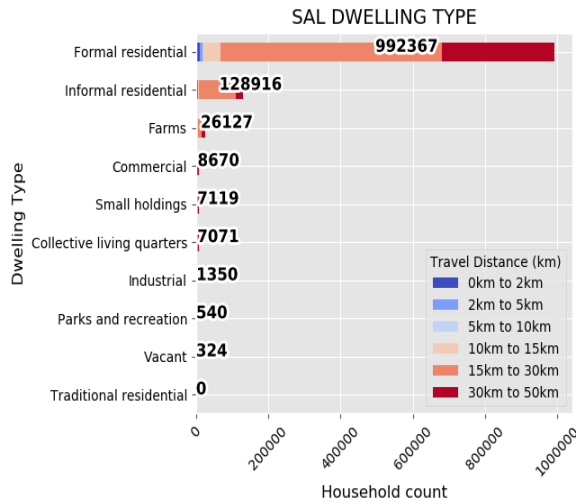
0 to 5   5 to 10   10 to 15   15 to 20   20 to 25   25 to 30   30 to 35   35 to 40   40 to 45   45 to 50

5.2.1 BOLAND TVET COLLEGE : HEAD OFFICE: 50KM RADIUS





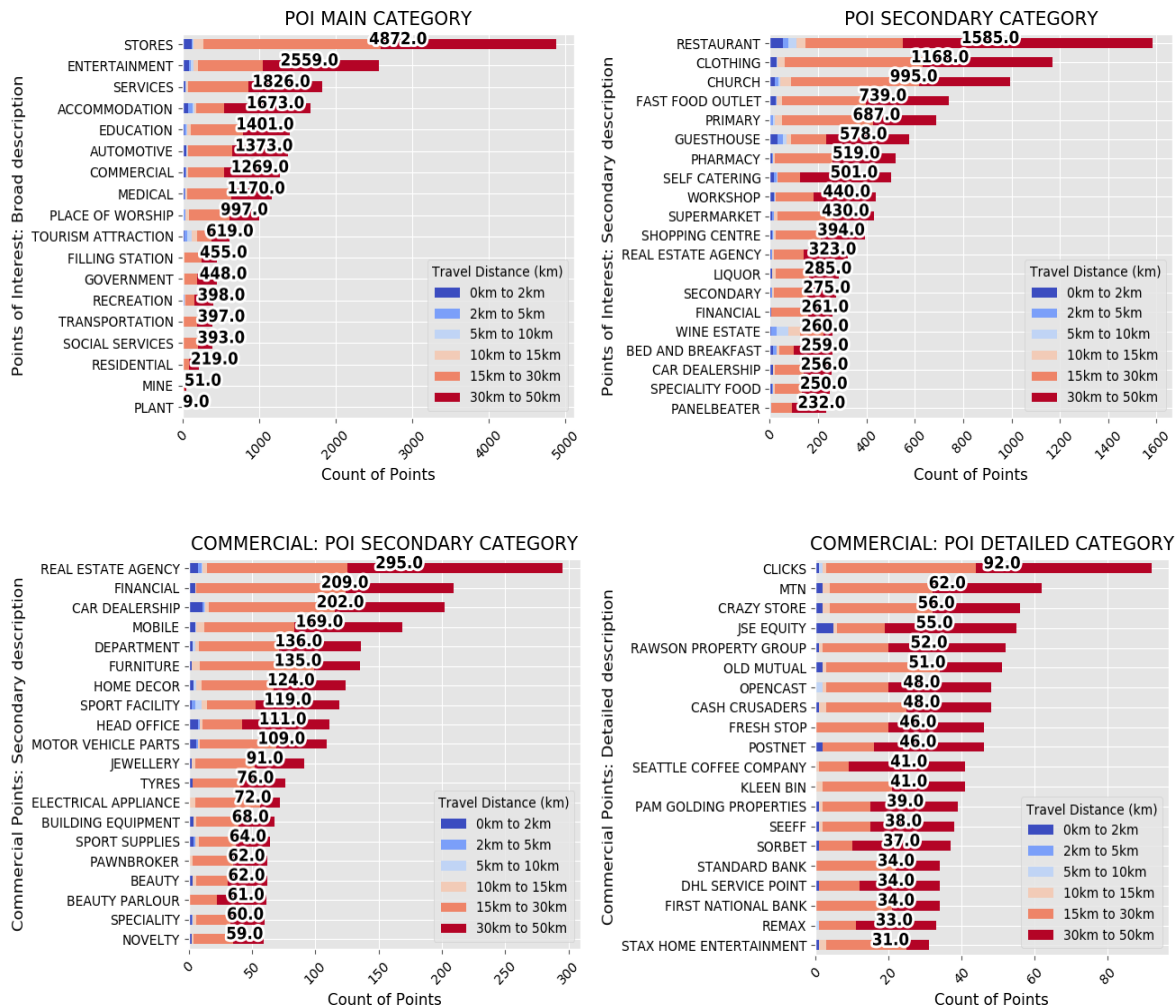
## 5.2.1 BOLAND TVET COLLEGE : HEAD OFFICE: DEMOGRAPHICS







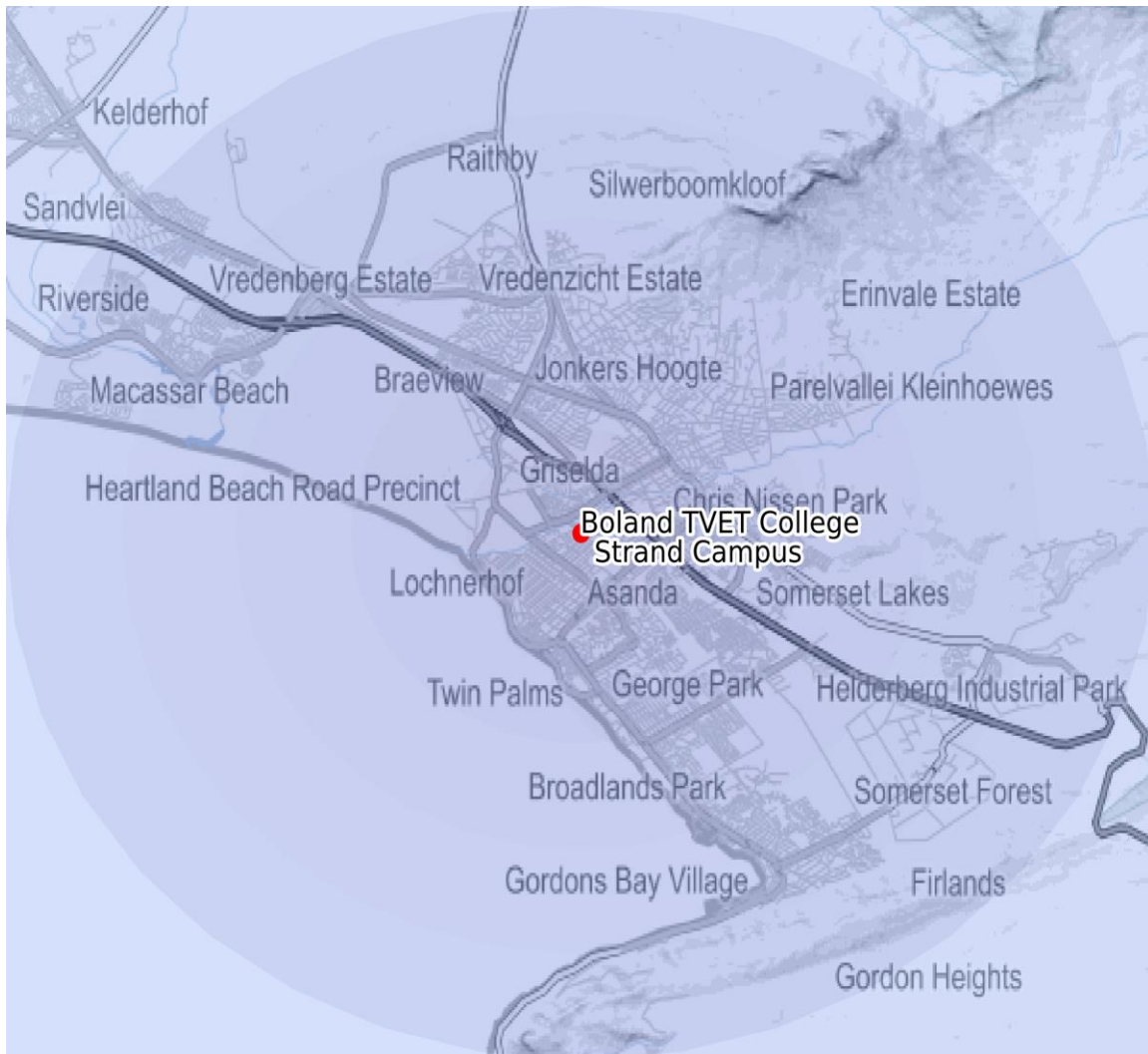
### 5.2.1 BOLAND TVET COLLEGE : HEAD OFFICE: POINTS OF INTEREST



### 5.2.2 BOLAND TVET COLLEGE : STRAND CAMPUS



Sub-Classification: Metropolitan  
Location Confidence: 5  
Province: Western Cape  
Municipality: City of Cape Town Metropolitan Municipality (Helderberg)  
Town: Strand  
Address: 71 Aerodrome Road Strand 7140  
Head Office Travel Distance (km): 21.95  
Head Office Travel Time (min): 24.78

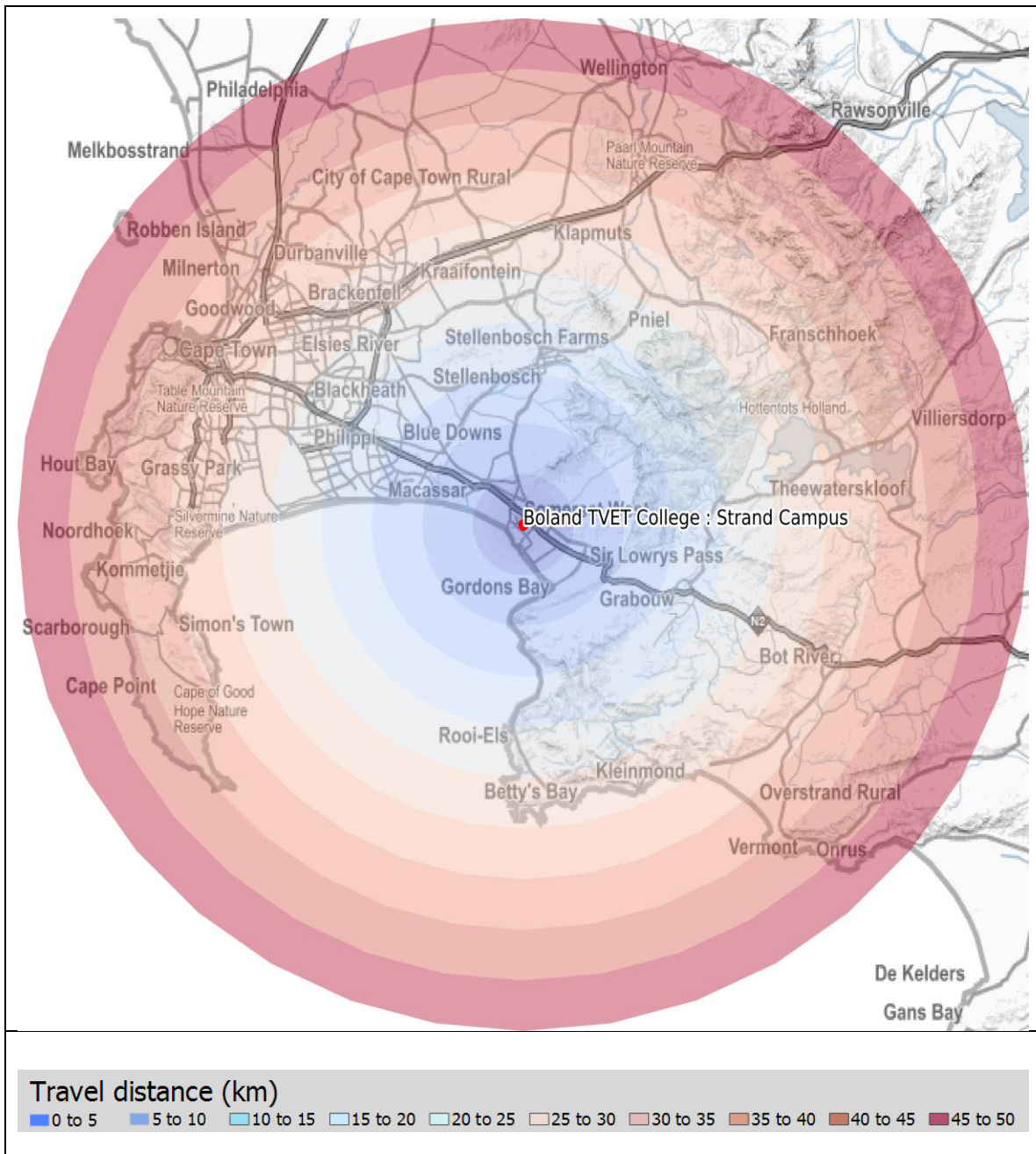


#### Travel distance (km)

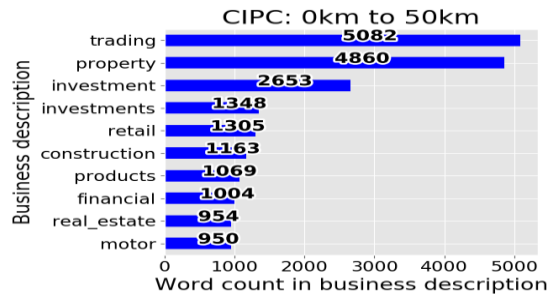
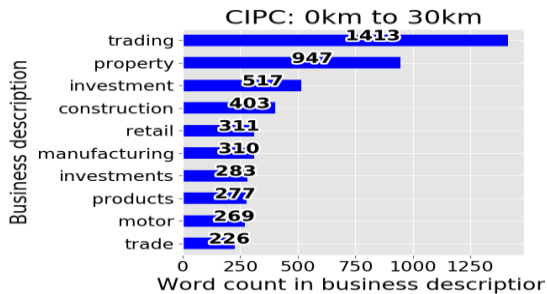
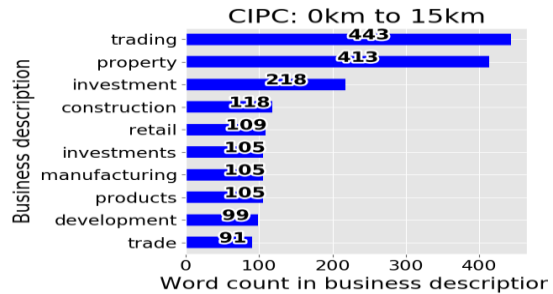
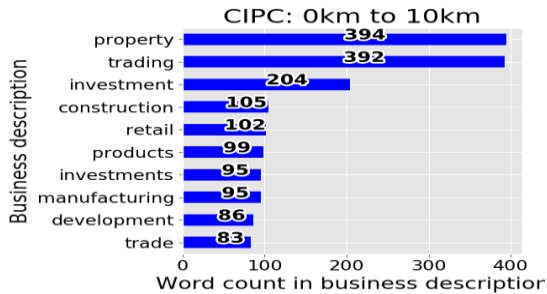
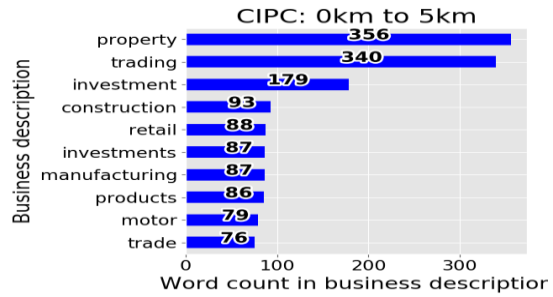
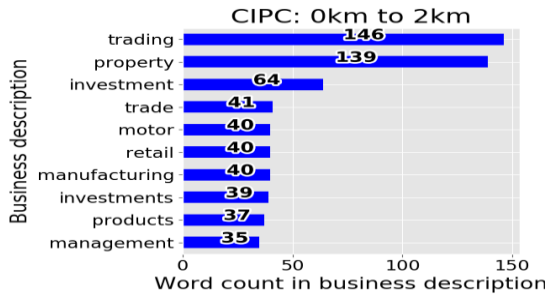
0 to 5   5 to 10   10 to 15   15 to 20   20 to 25   25 to 30   30 to 35   35 to 40   40 to 45   45 to 50



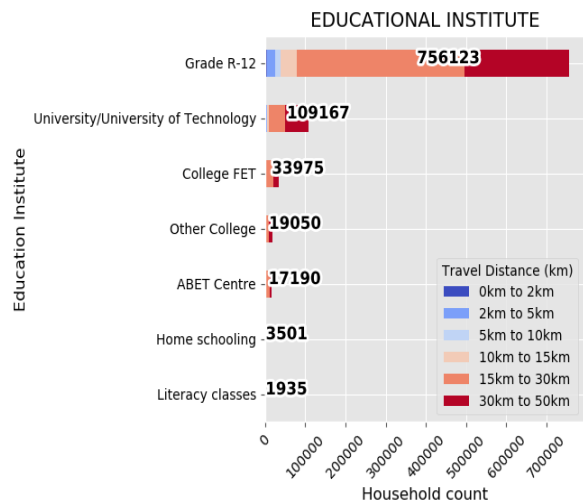
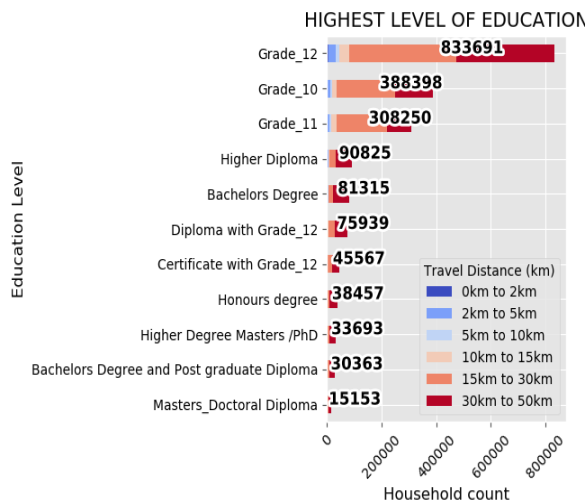
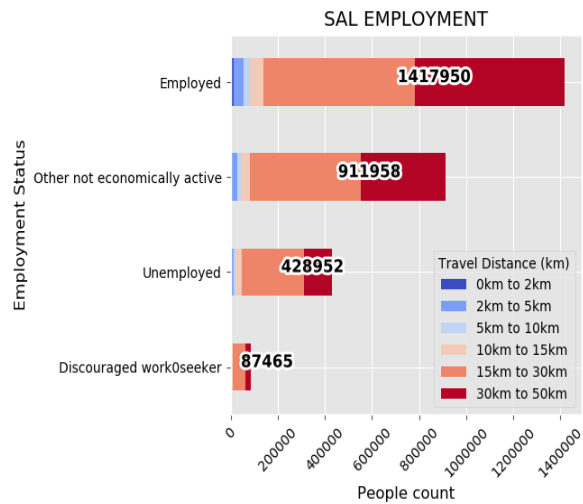
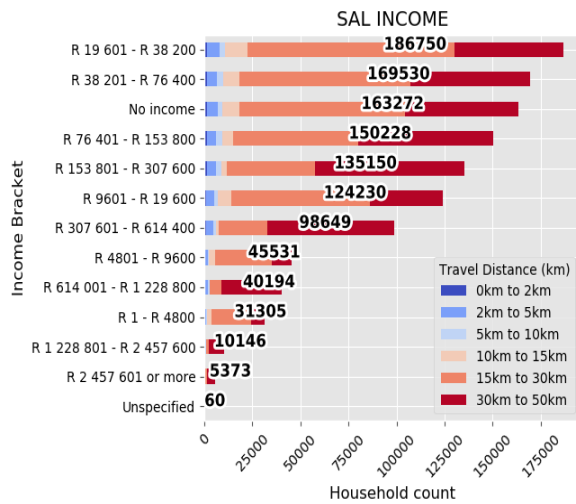
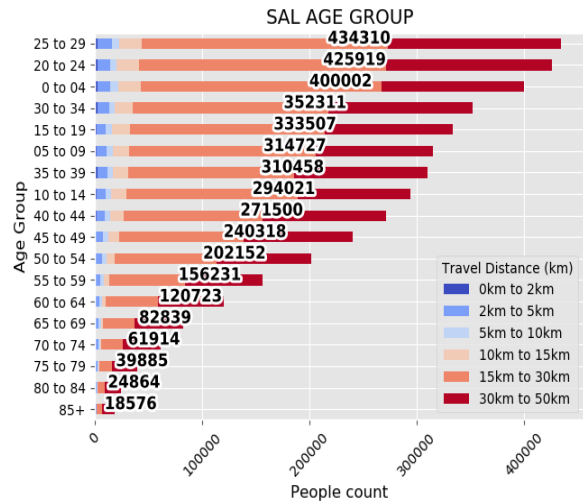
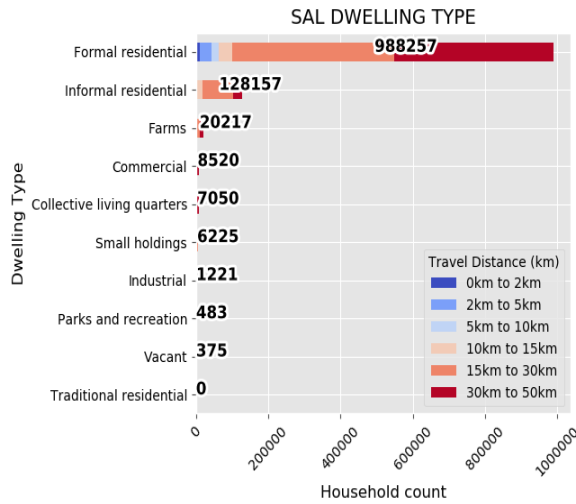
### 5.2.2 BOLAND TVET COLLEGE : STRAND CAMPUS: 50KM RADIUS



## BOLAND TVET COLLEGE : STRAND CAMPUS: CIPC INFOGRAPHICS



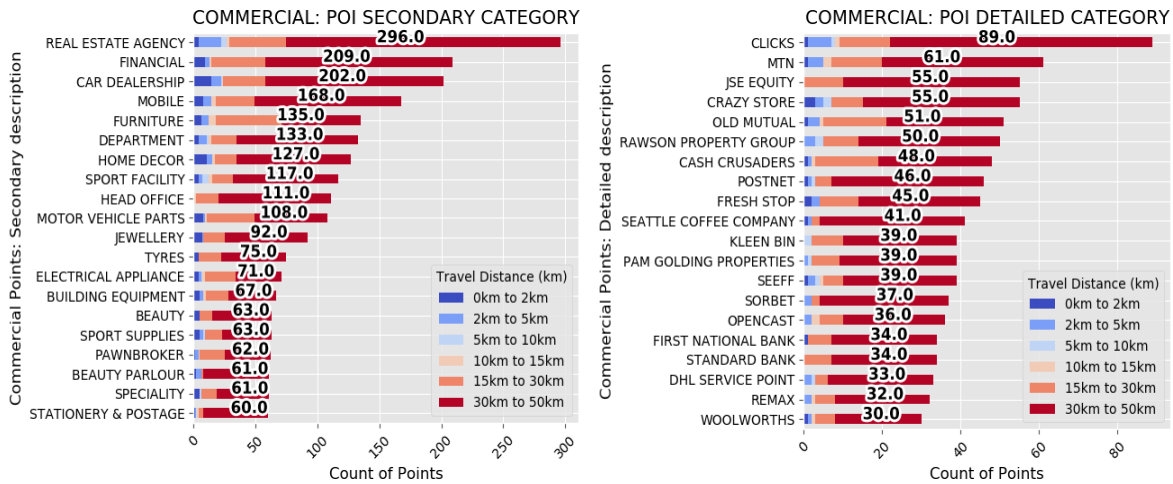
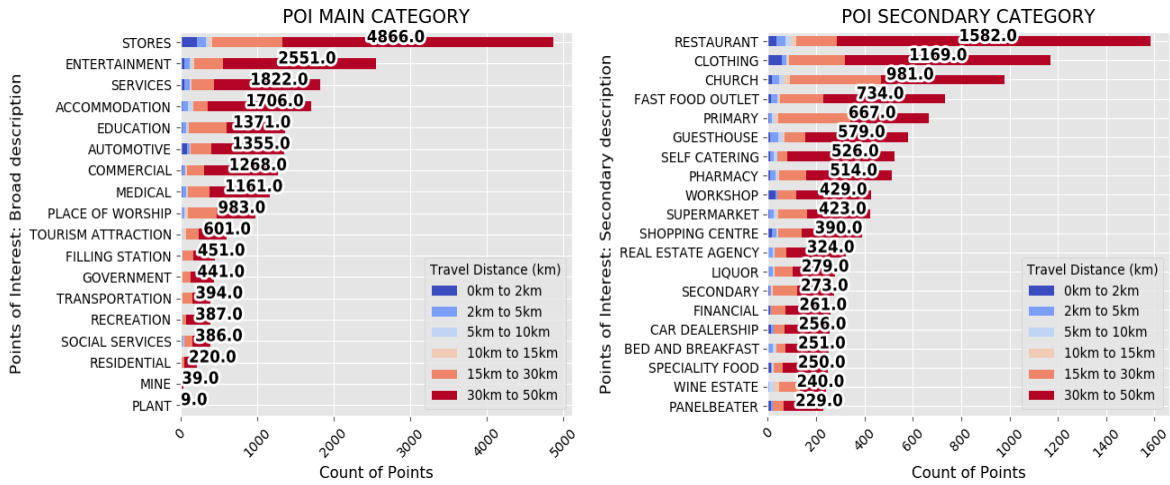
## 5.2.2 BOLAND TVET COLLEGE : STRAND CAMPUS: DEMOGRAPHICS







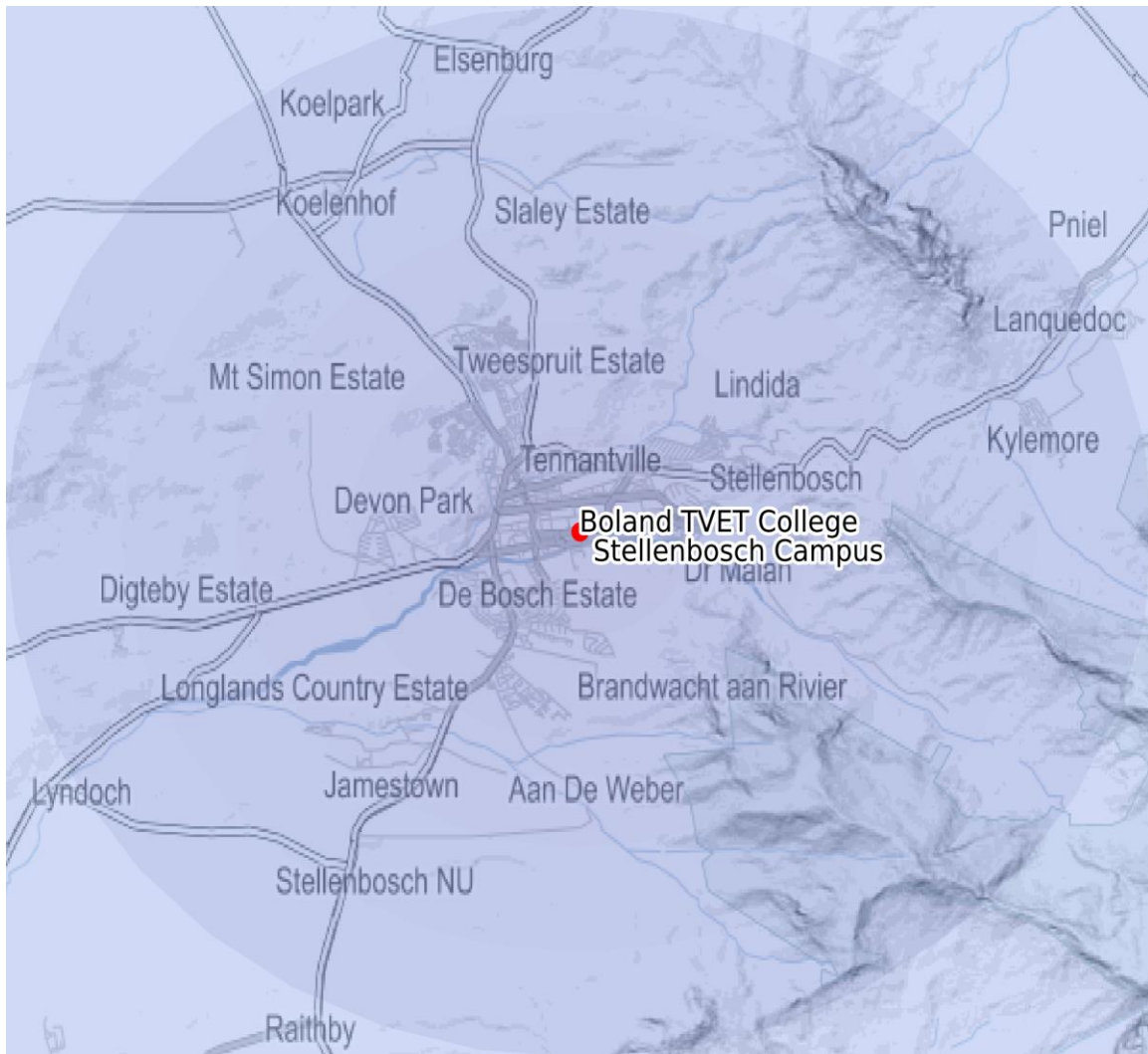
## BOLAND TVET COLLEGE : STRAND CAMPUS: POINTS OF INTEREST



### 5.2.3 BOLAND TVET COLLEGE : STELLENBOSCH CAMPUS



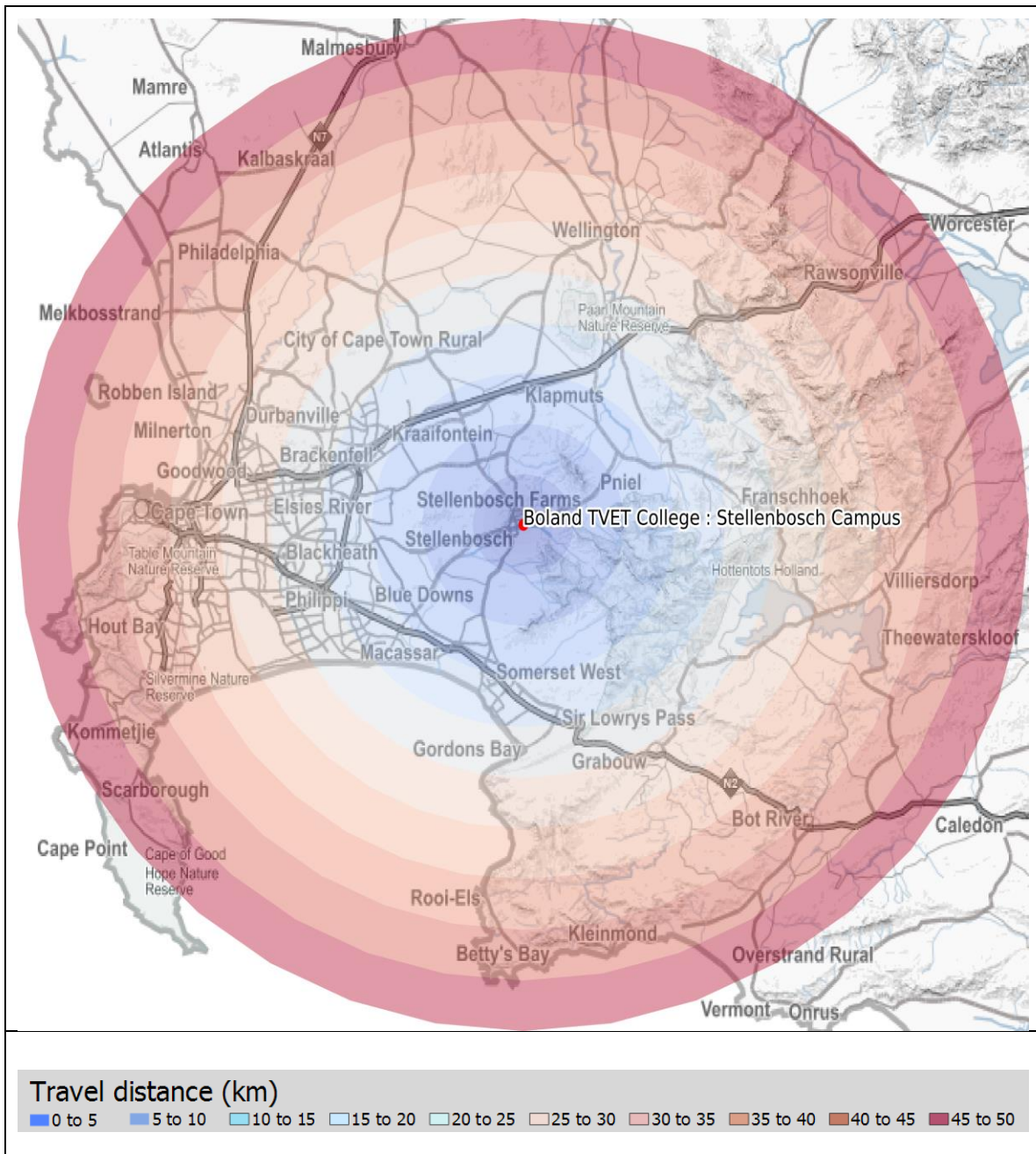
Sub-Classification: B 1  
Location Confidence: 5  
Province: Western Cape  
Municipality: Stellenbosch Local Municipality  
Town: Stellenbosch  
Address: 1 Van Riebeck Straat Stellenbosch 7600  
Head Office Travel Distance (km): 2.14  
Head Office Travel Time (min): 3.93



#### 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

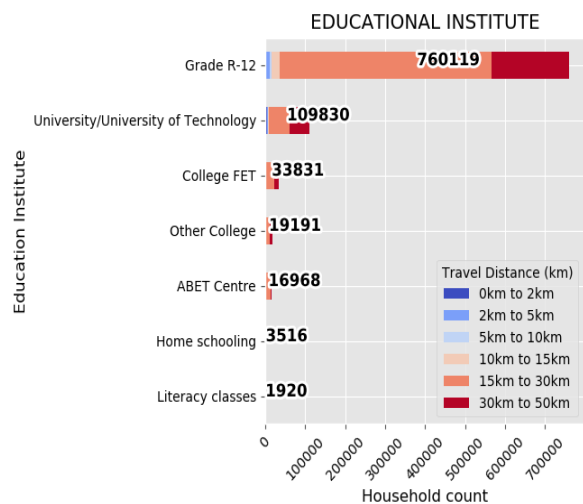
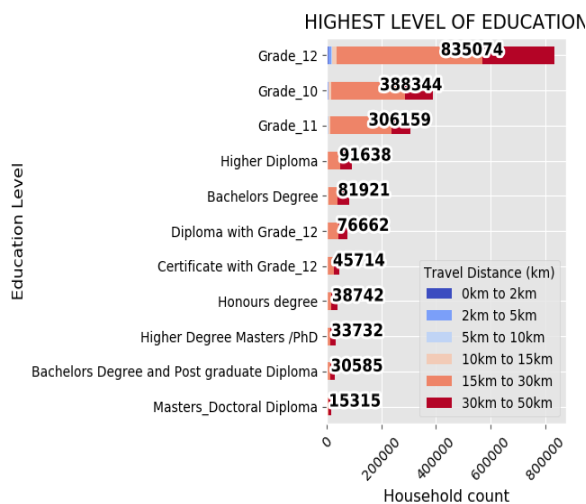
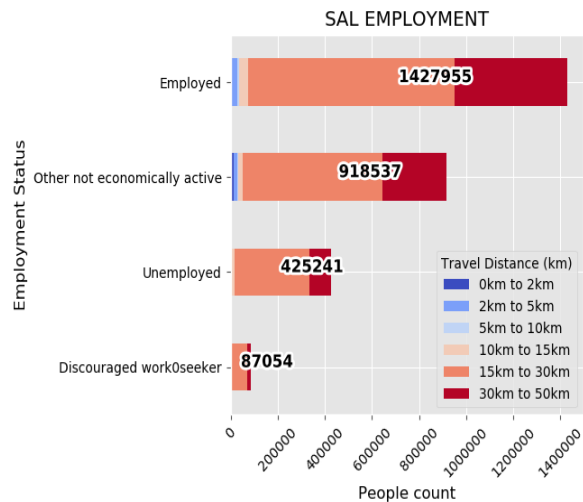
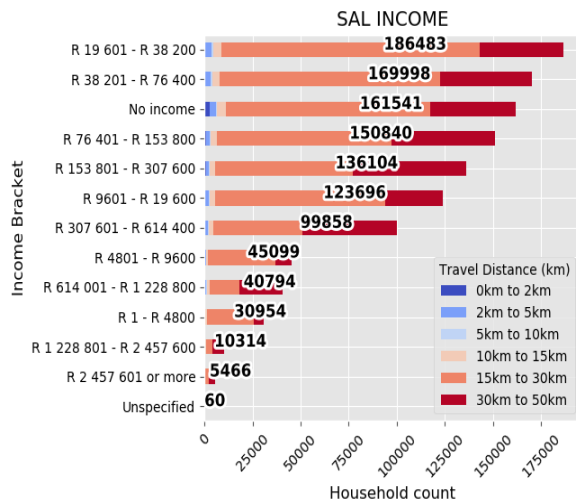
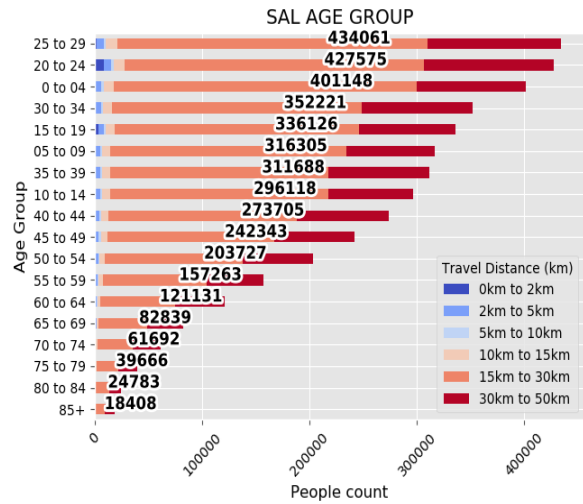
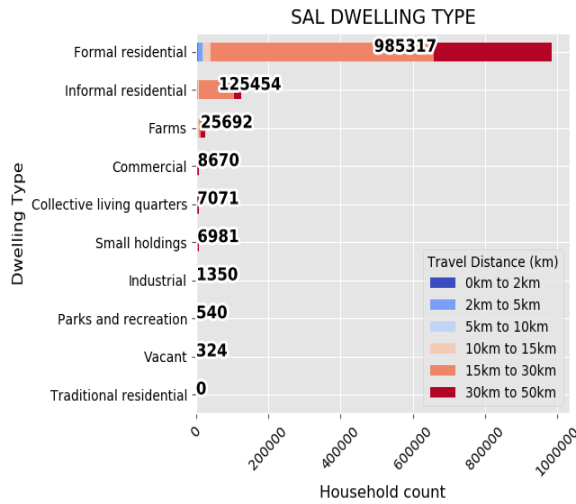
### 5.2.3 BOLAND TVET COLLEGE : STELLENBOSCH CAMPUS: 50KM RADIUS





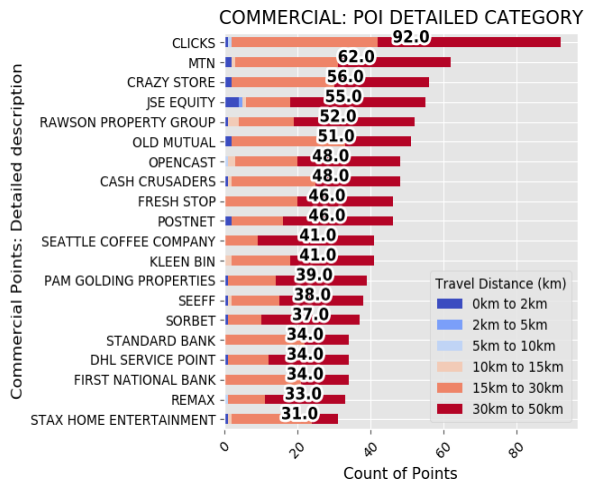
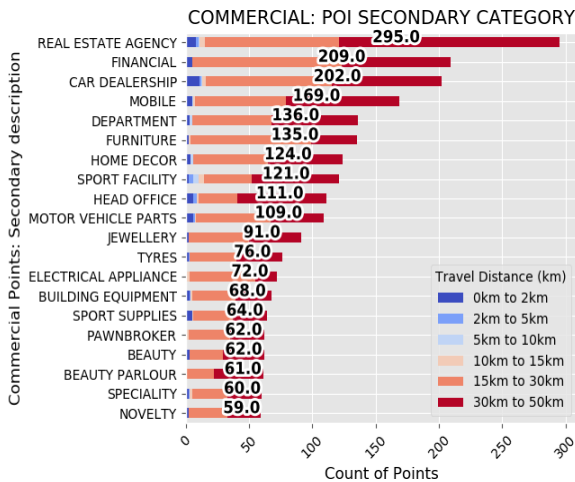
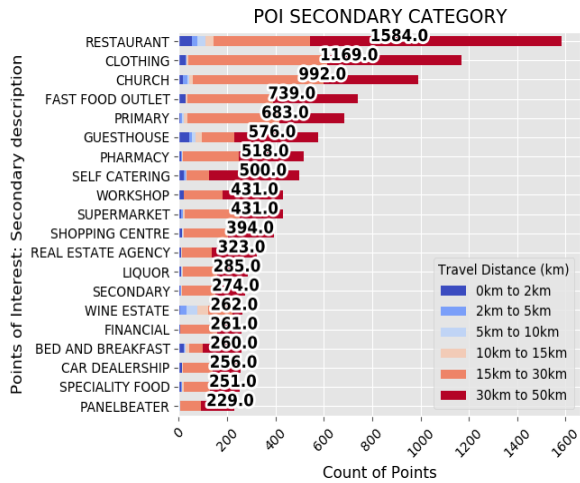
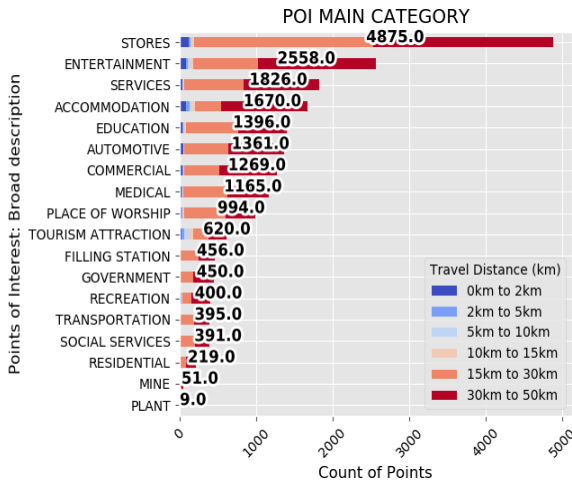


### 5.2.3 BOLAND TVET COLLEGE : STELLENBOSCH CAMPUS: DEMOGRAPHICS





## BOLAND TVET COLLEGE : STELLENBOSCH CAMPUS: POINTS OF INTEREST

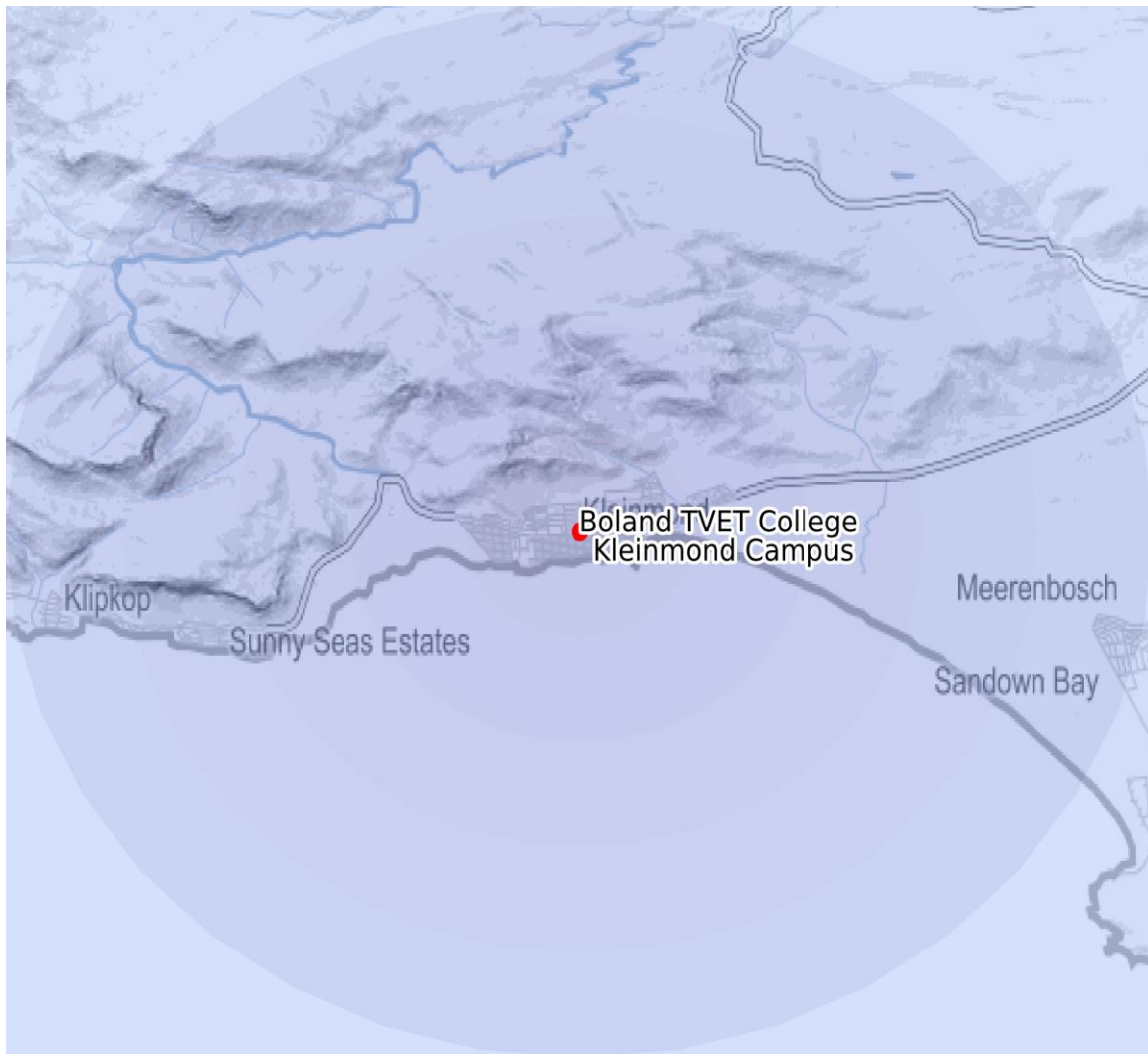




#### 5.2.4 BOLAND TVET COLLEGE : KLEINMOND CAMPUS



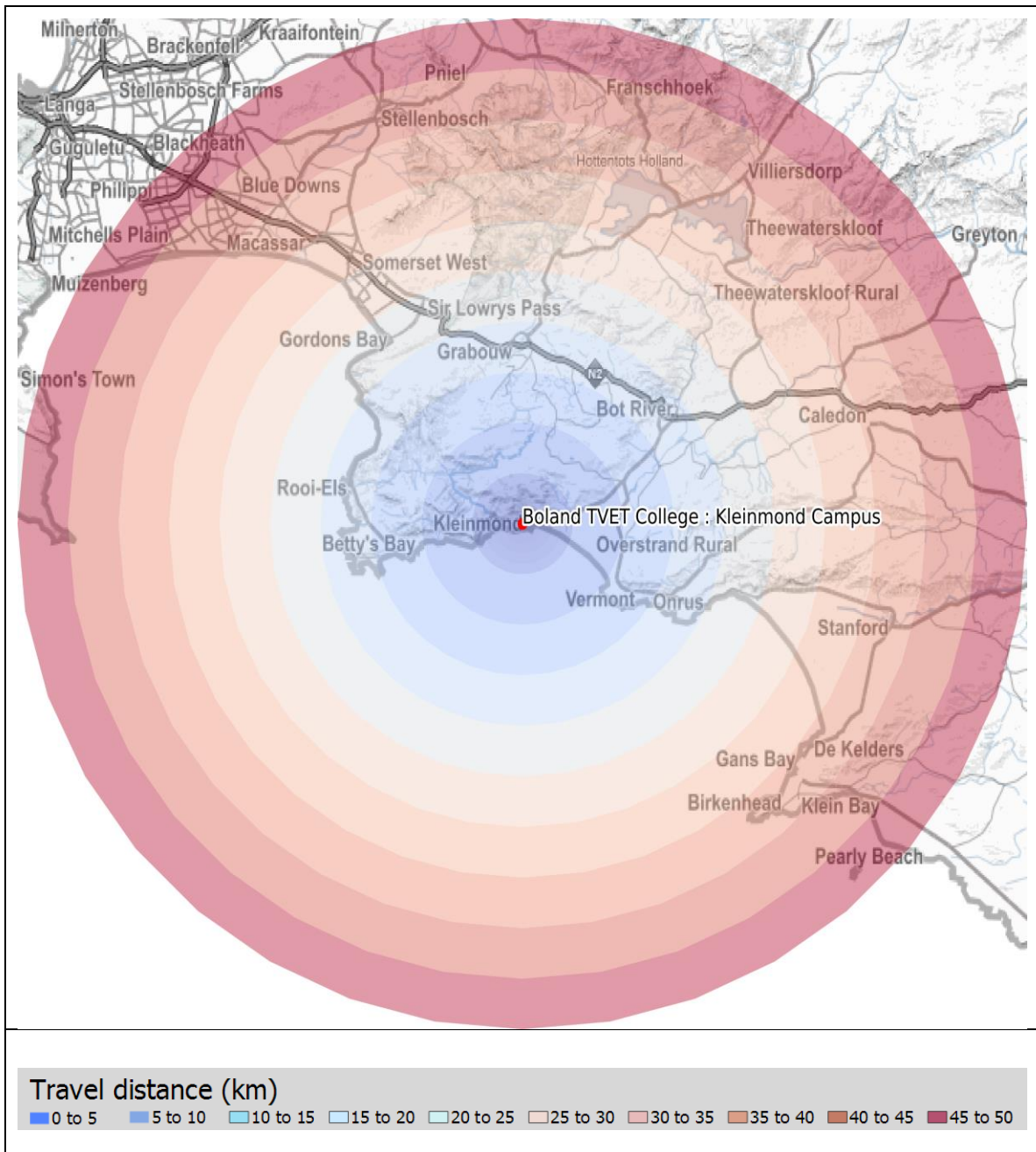
Sub-Classification: B 2  
Location Confidence: 6  
Province: Western Cape  
Municipality: Overstrand Local Municipality  
Town: Kleinmond  
Address: Mthimkhulu Main Road Kleinmond 7195  
Head Office Travel Distance (km): 76.24  
Head Office Travel Time (min): 100.81



#### 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

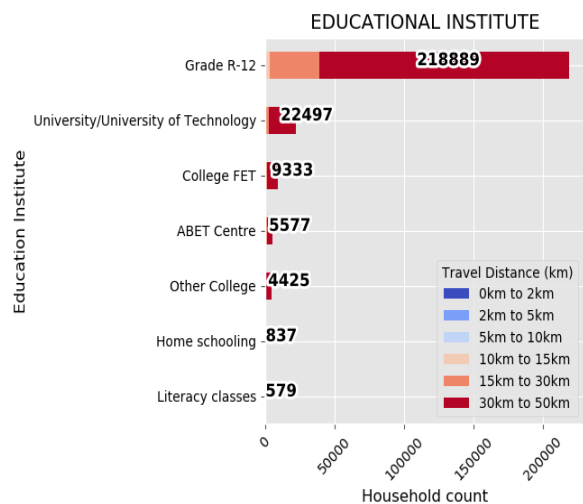
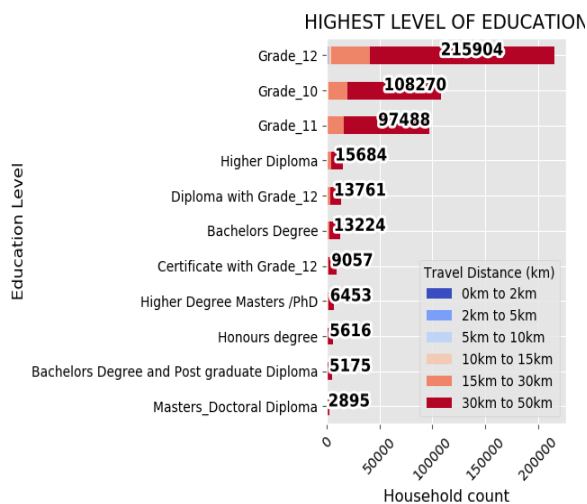
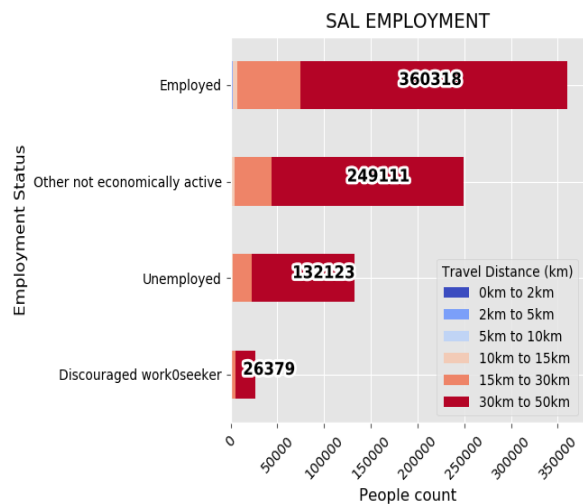
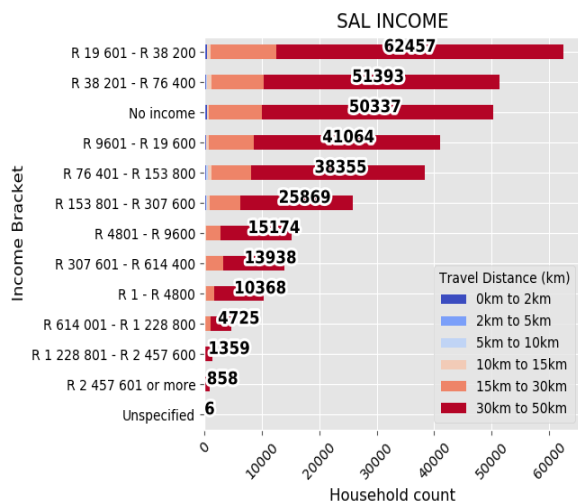
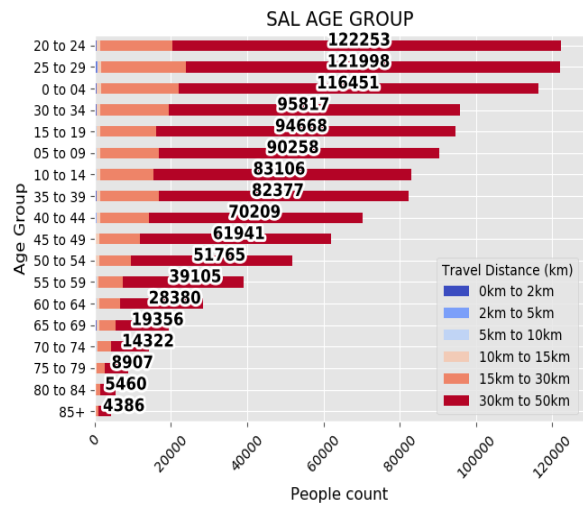
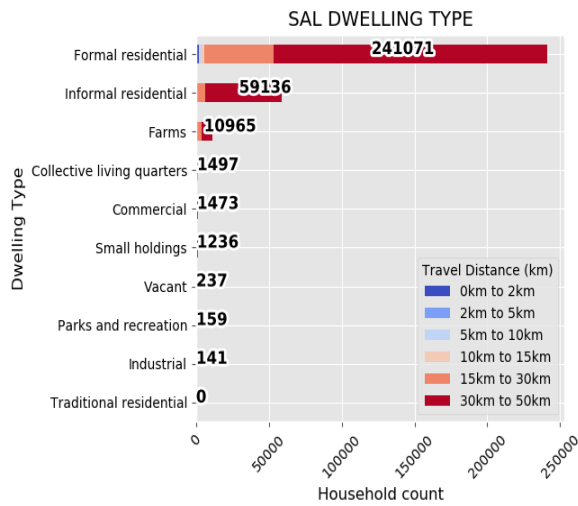
#### 5.2.4 BOLAND TVET COLLEGE : KLEINMOND CAMPUS: 50KM RADIUS





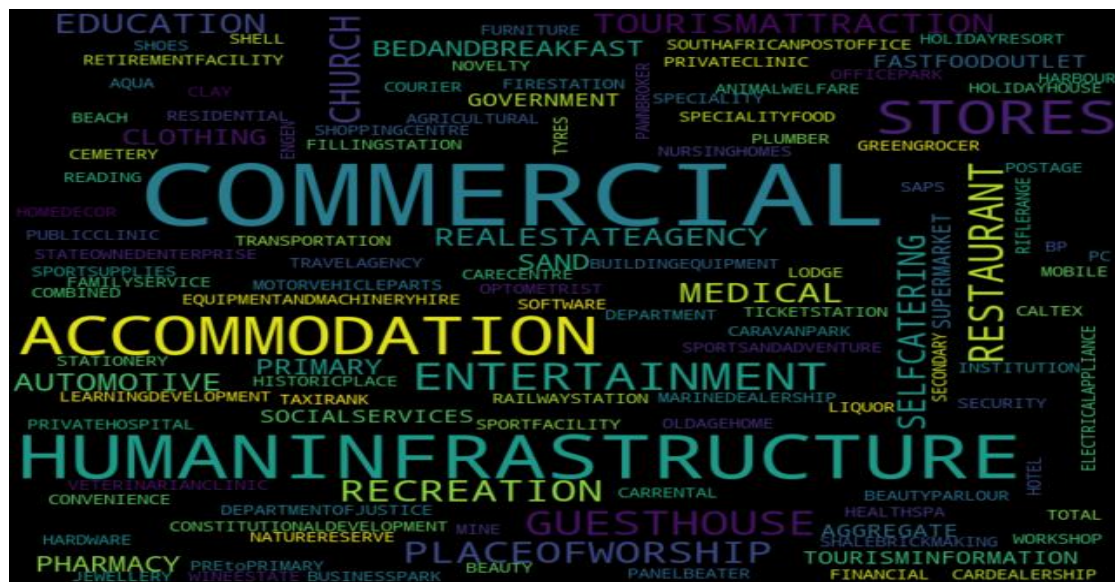
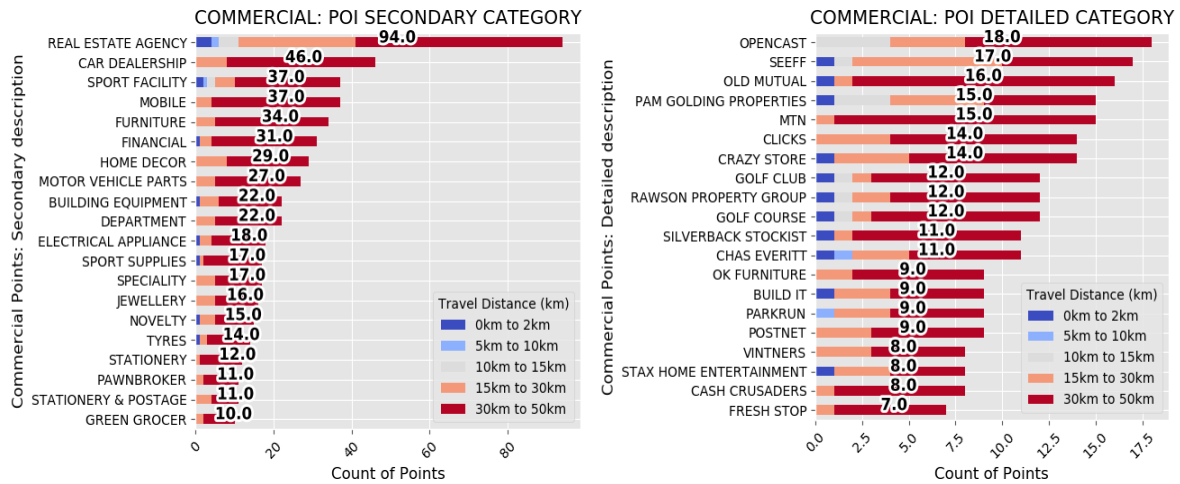
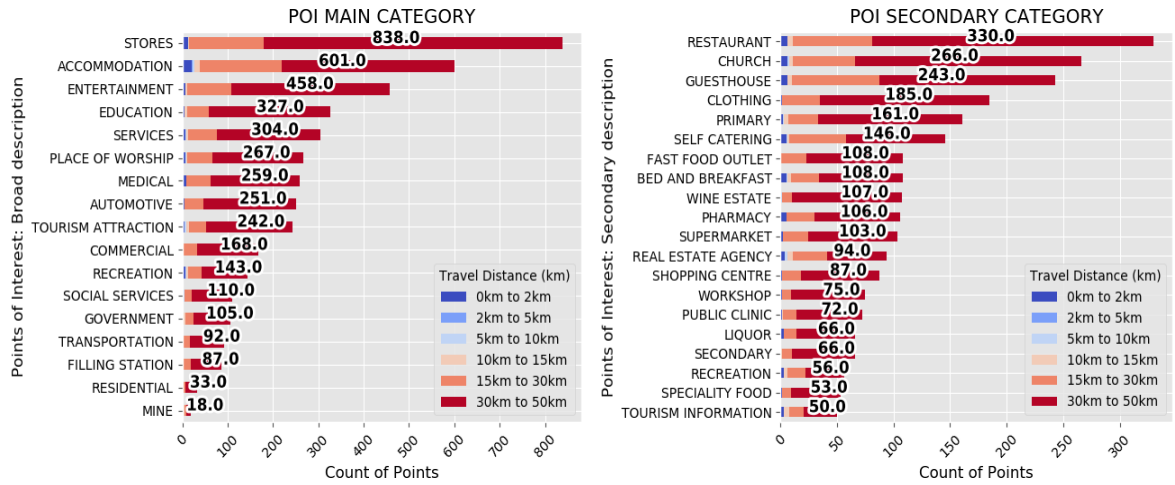


## 5.2.4 BOLAND TVET COLLEGE : KLEINMOND CAMPUS: DEMOGRAPHICS





## 5.2.4 BOLAND TVET COLLEGE : KLEINMOND CAMPUS: POINTS OF INTEREST



### 5.2.5 BOLAND TVET COLLEGE : PAARL CAMPUS



Sub-Classification: B 1  
Location Confidence: 5  
Province: Western Cape  
Municipality: Drakenstein Local Municipality  
Town: Paarl  
Address: 66 Plein Straat Paarl 7646  
Head Office Travel Distance (km): 29.94  
Head Office Travel Time (min): 31.01

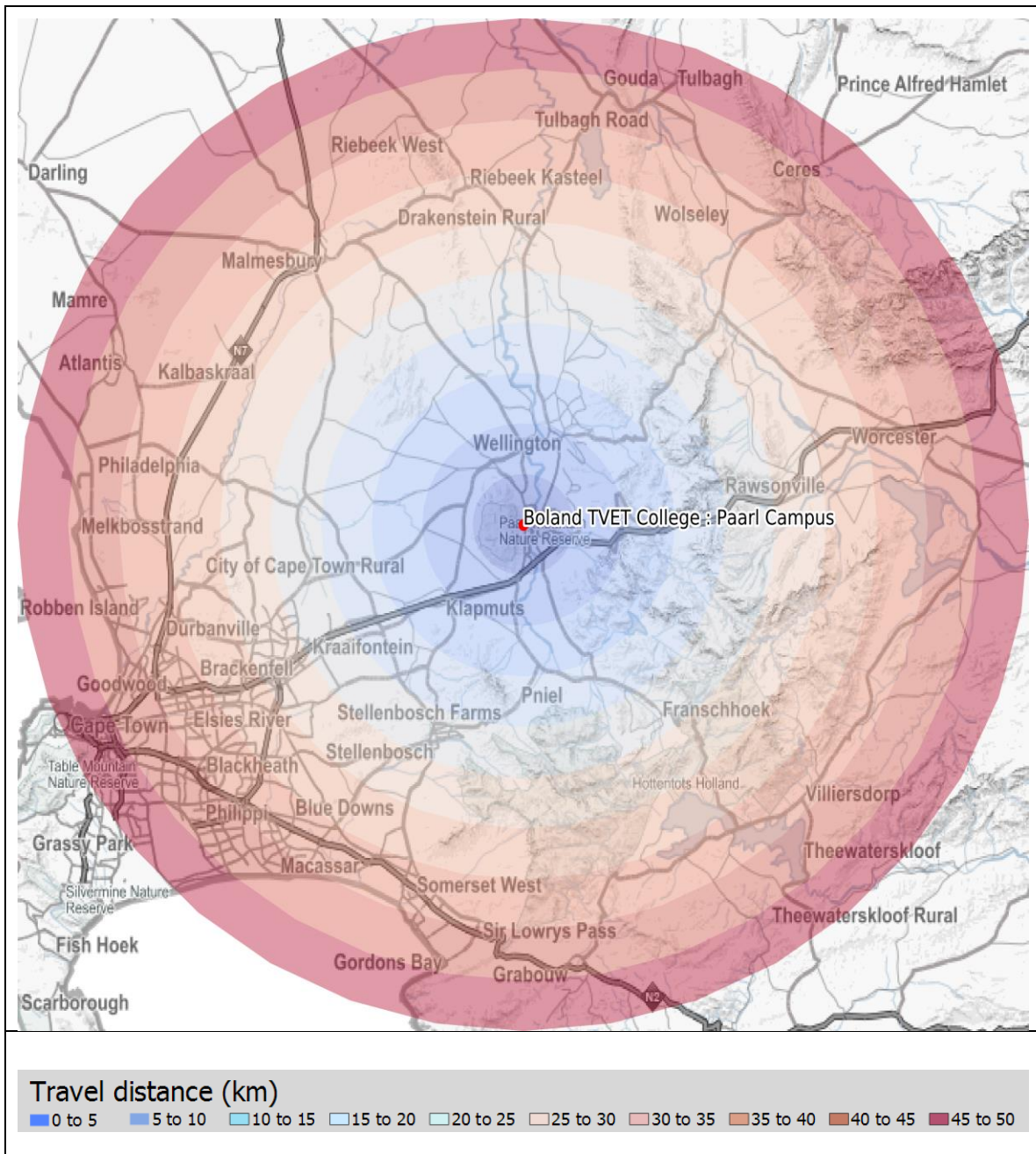


#### Travel distance (km)

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



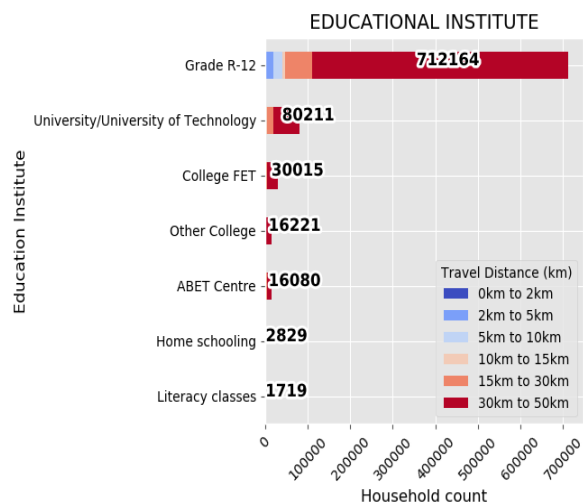
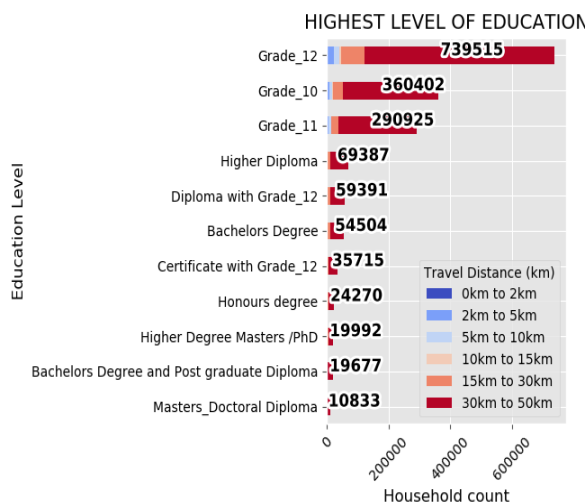
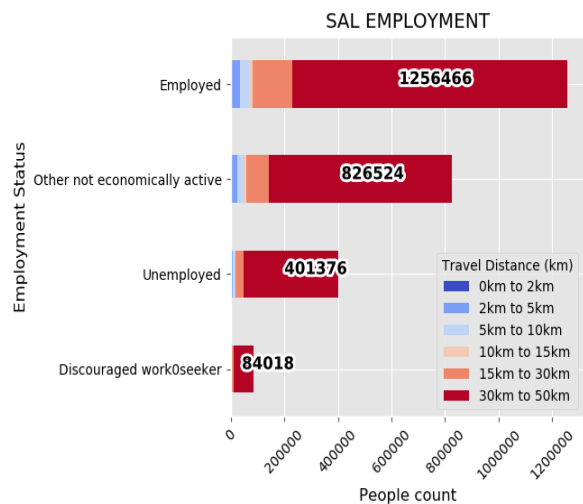
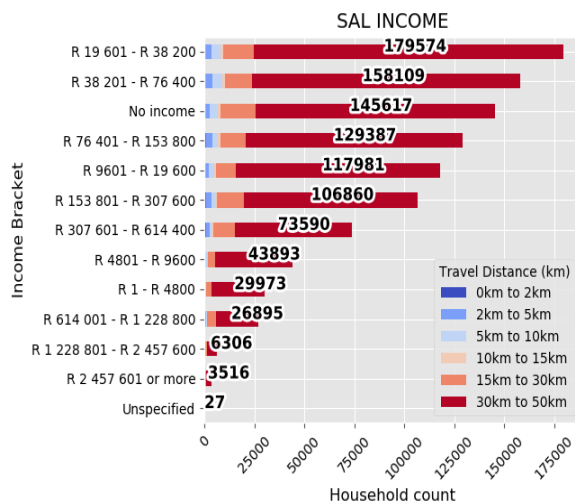
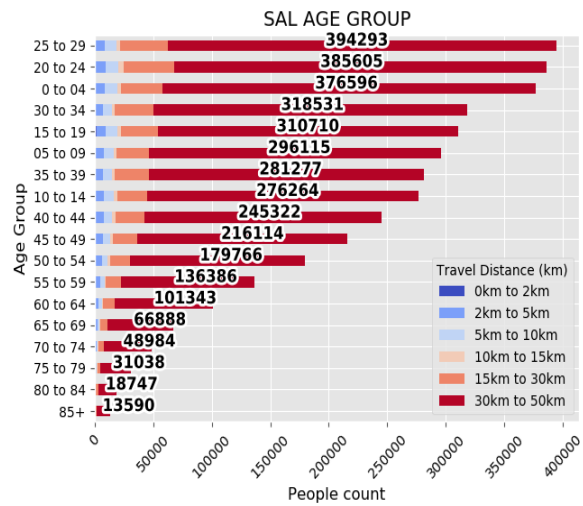
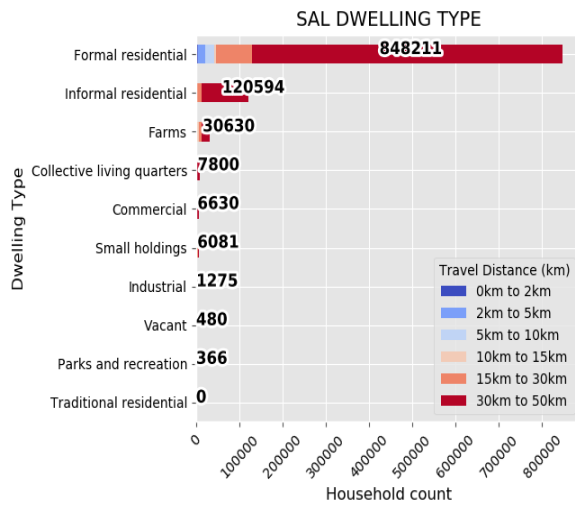
5.2.5 BOLAND TVET COLLEGE : PAARL CAMPUS: 50KM RADIUS

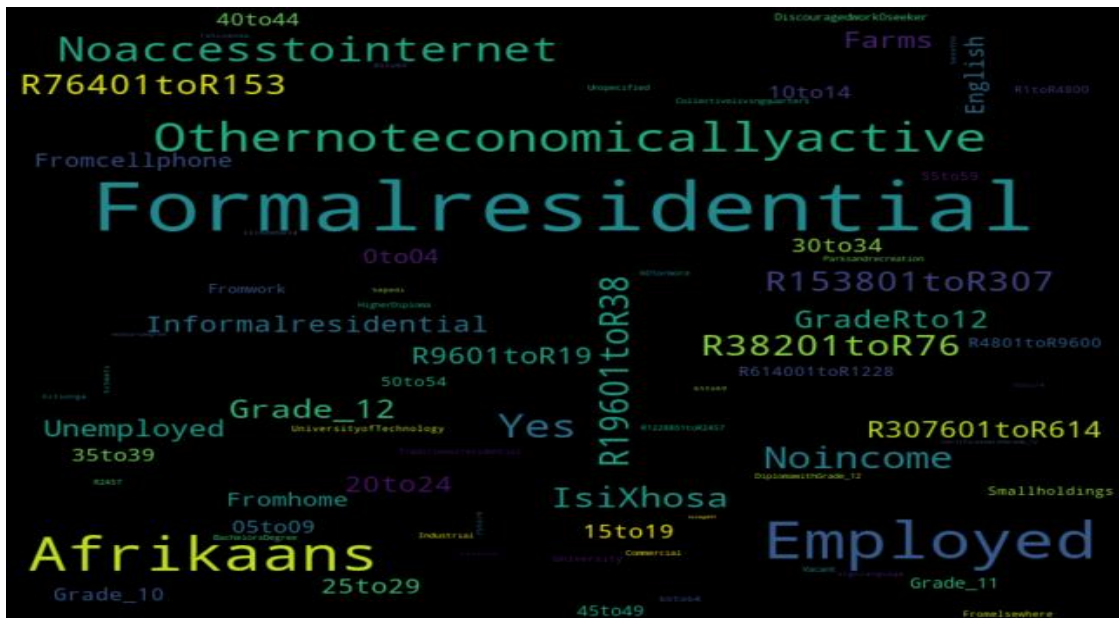
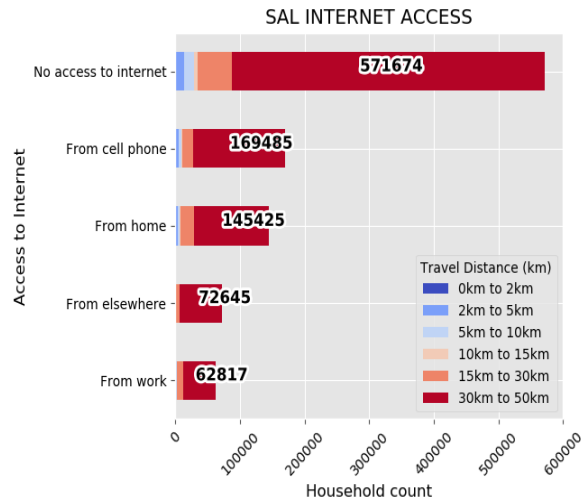
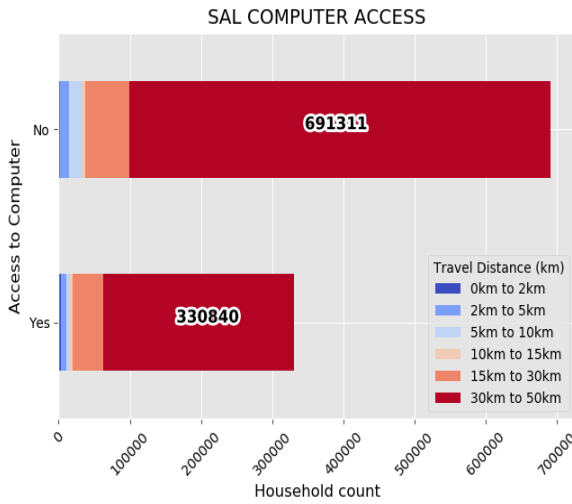




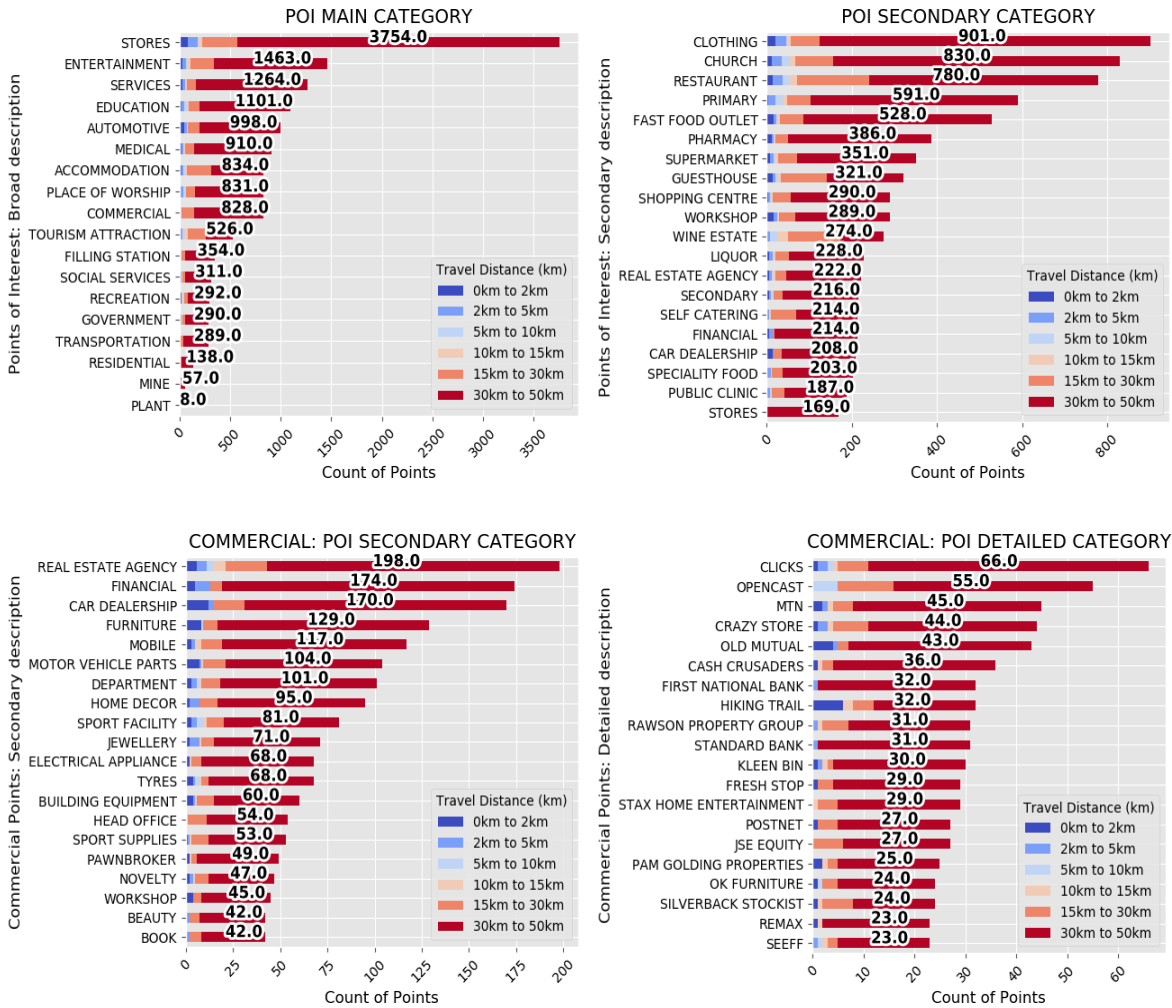


## 5.2.5 BOLAND TVET COLLEGE : PAARL CAMPUS: DEMOGRAPHICS





## BOLAND TVET COLLEGE : PAARL CAMPUS: POINTS OF INTEREST

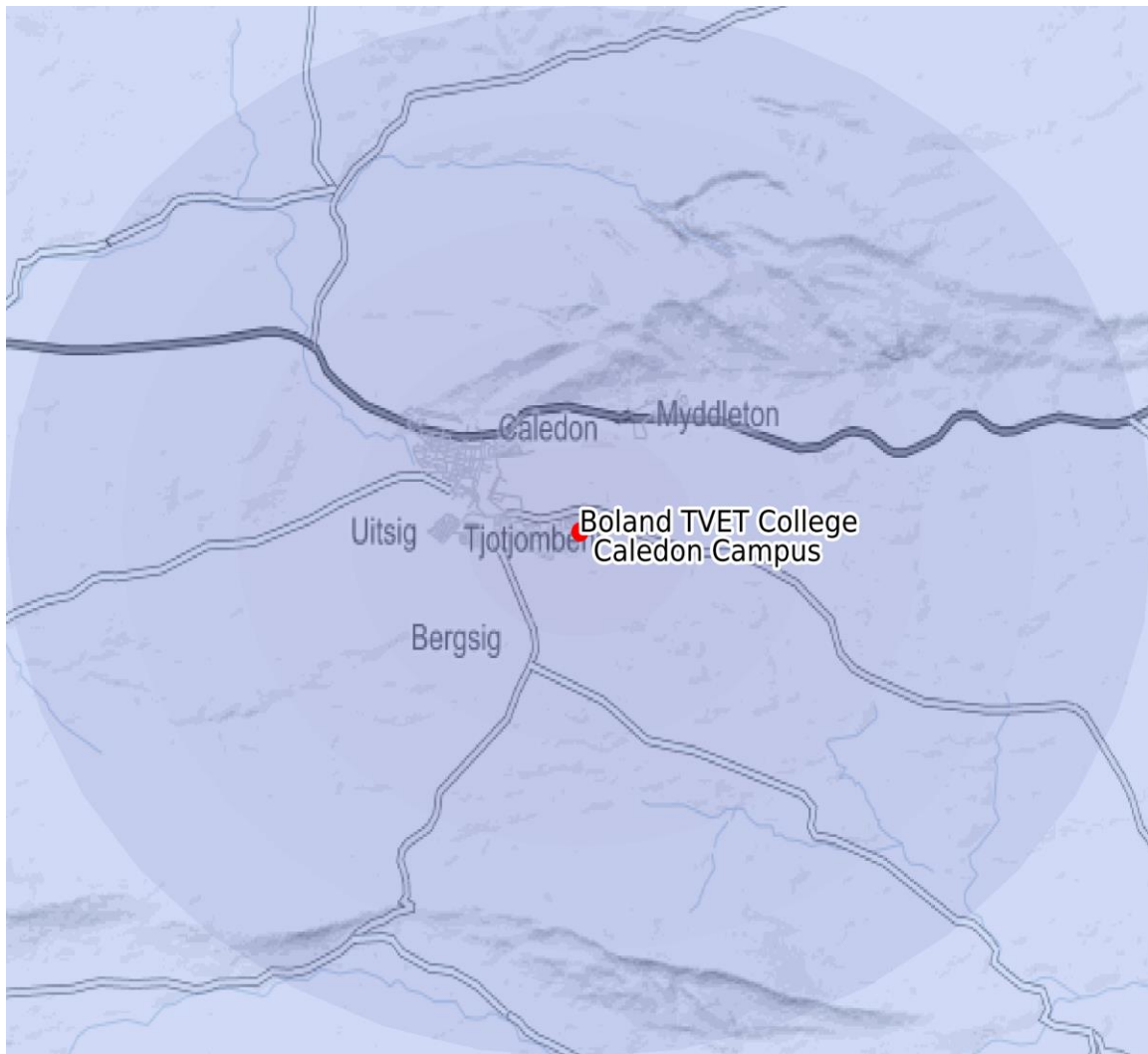




### 5.2.6 BOLAND TVET COLLEGE : CALEDON CAMPUS



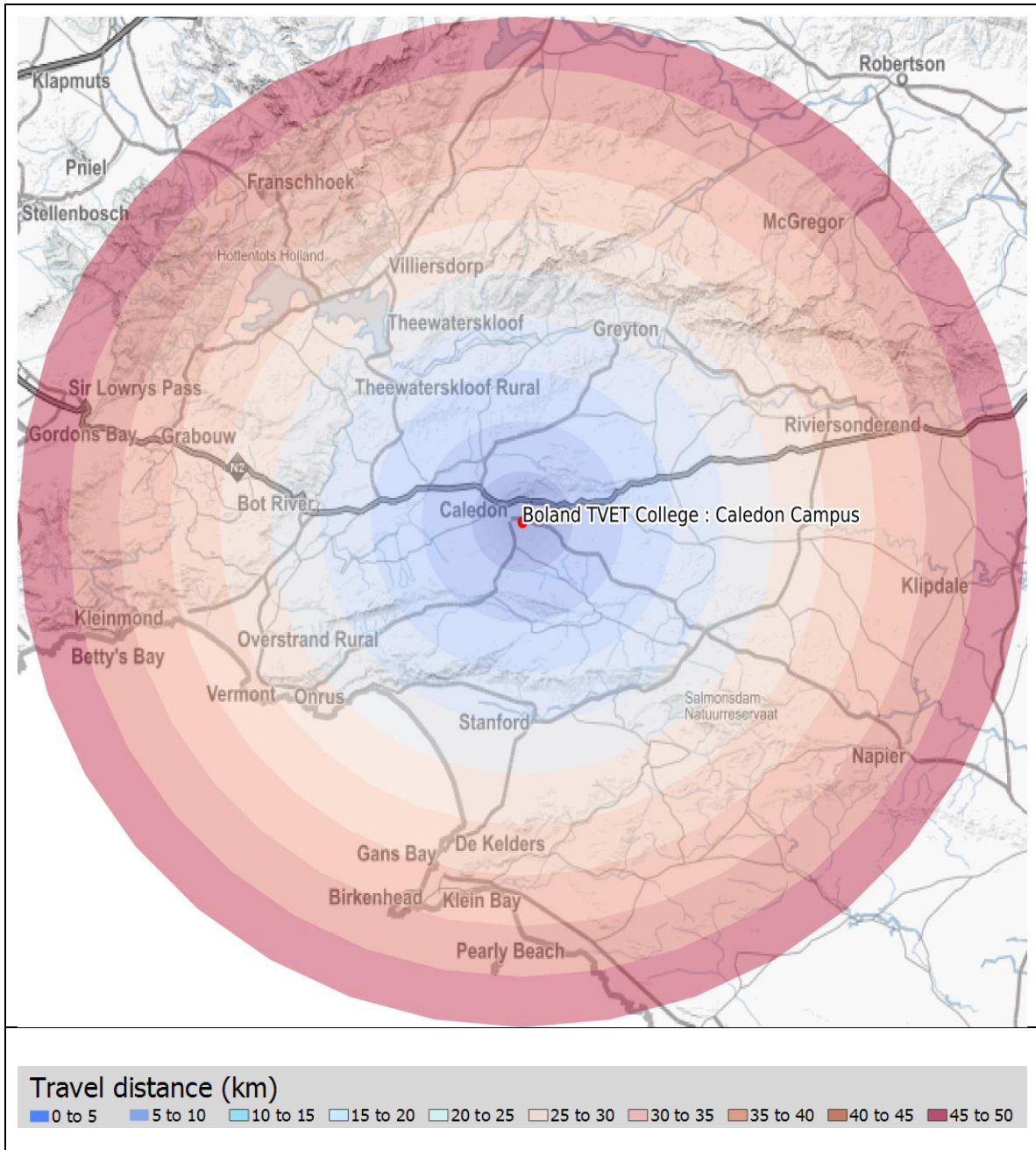
Sub-Classification: B 3  
Location Confidence: 5  
Province: Western Cape  
Municipality: Theewaterskloof Local Municipality  
Town: Caledon  
Address: 37 Koalisie Street Bergsig Caledon 7230  
Head Office Travel Distance (km): 88.97  
Head Office Travel Time (min): 86.25



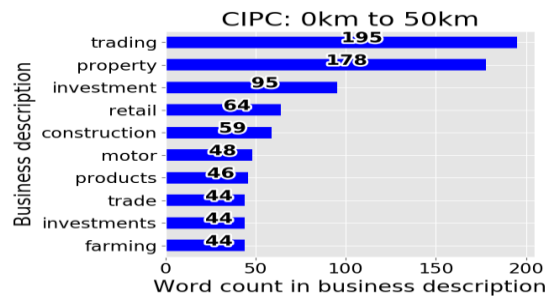
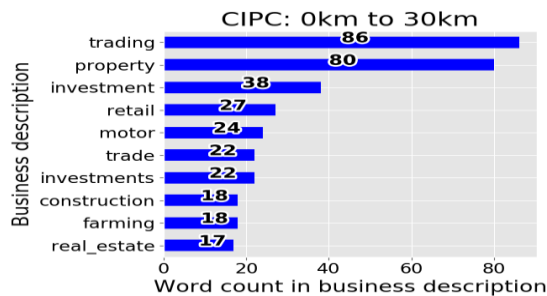
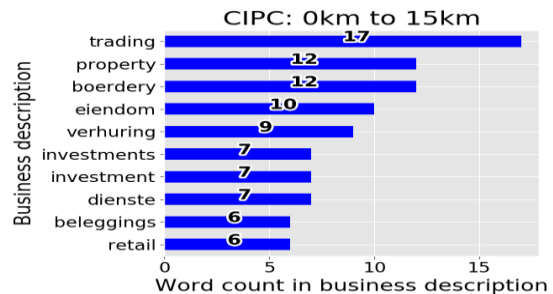
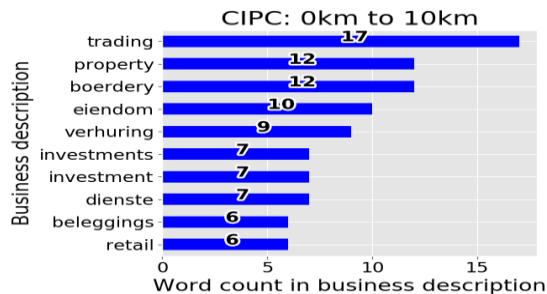
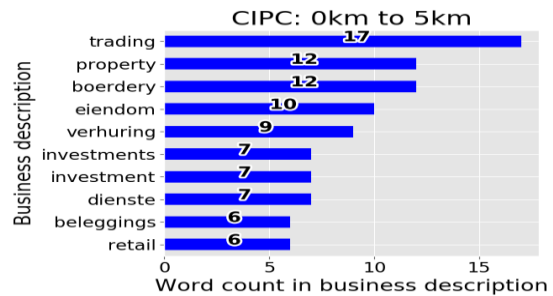
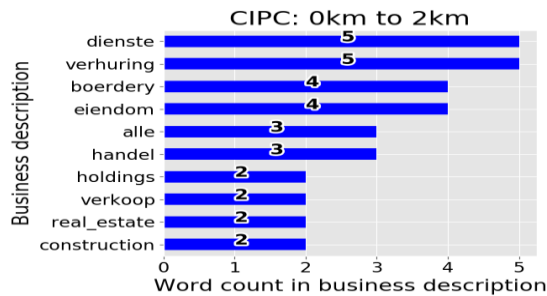
#### Travel distance (km)

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

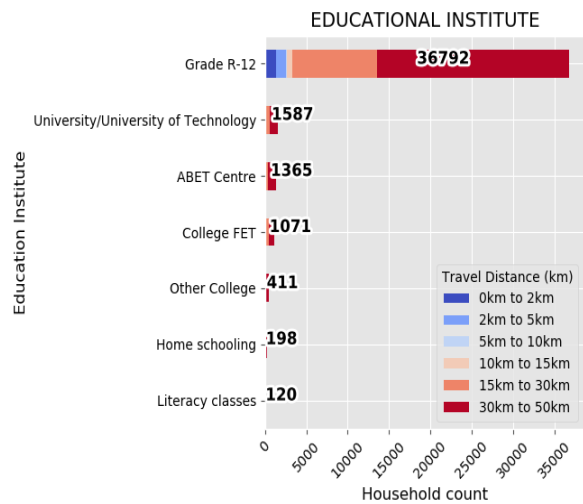
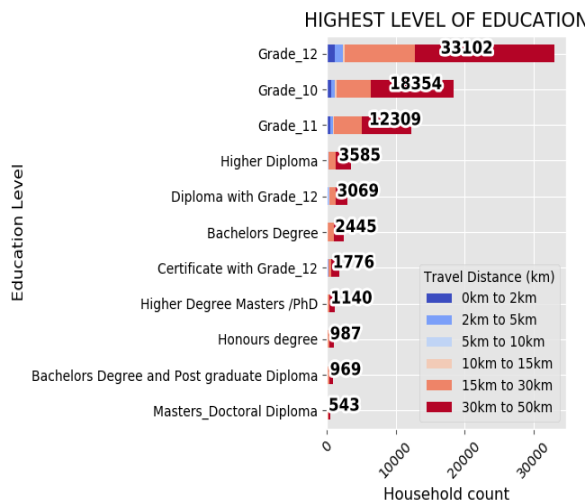
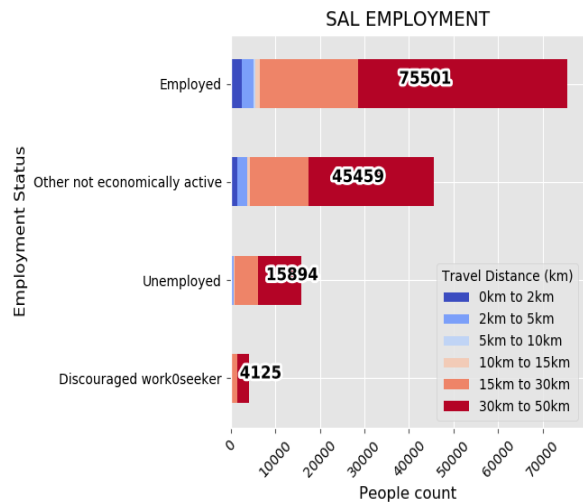
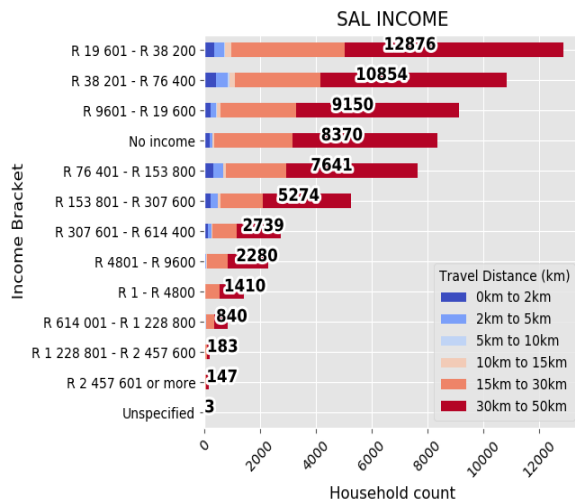
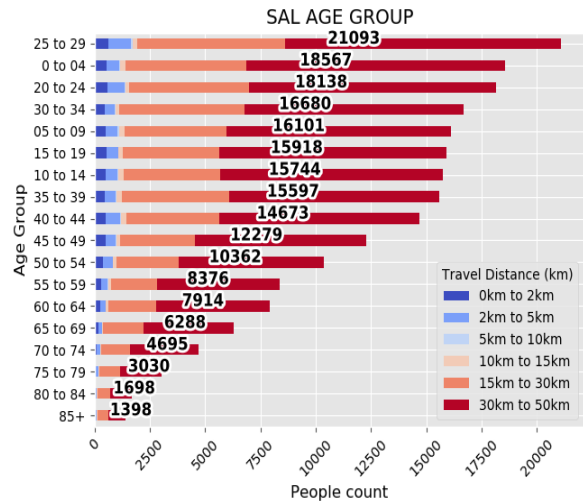
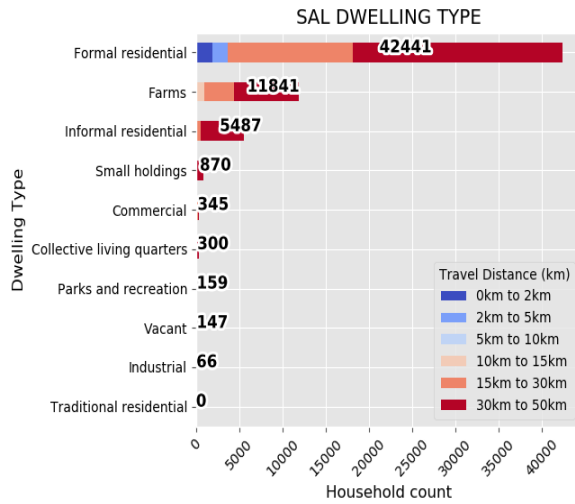
5.2.6 BOLAND TVET COLLEGE : CALEDON CAMPUS: 50KM RADIUS



## 5.2.6 BOLAND TVET COLLEGE : CALEDON CAMPUS: CIPC INFOGRAPHICS



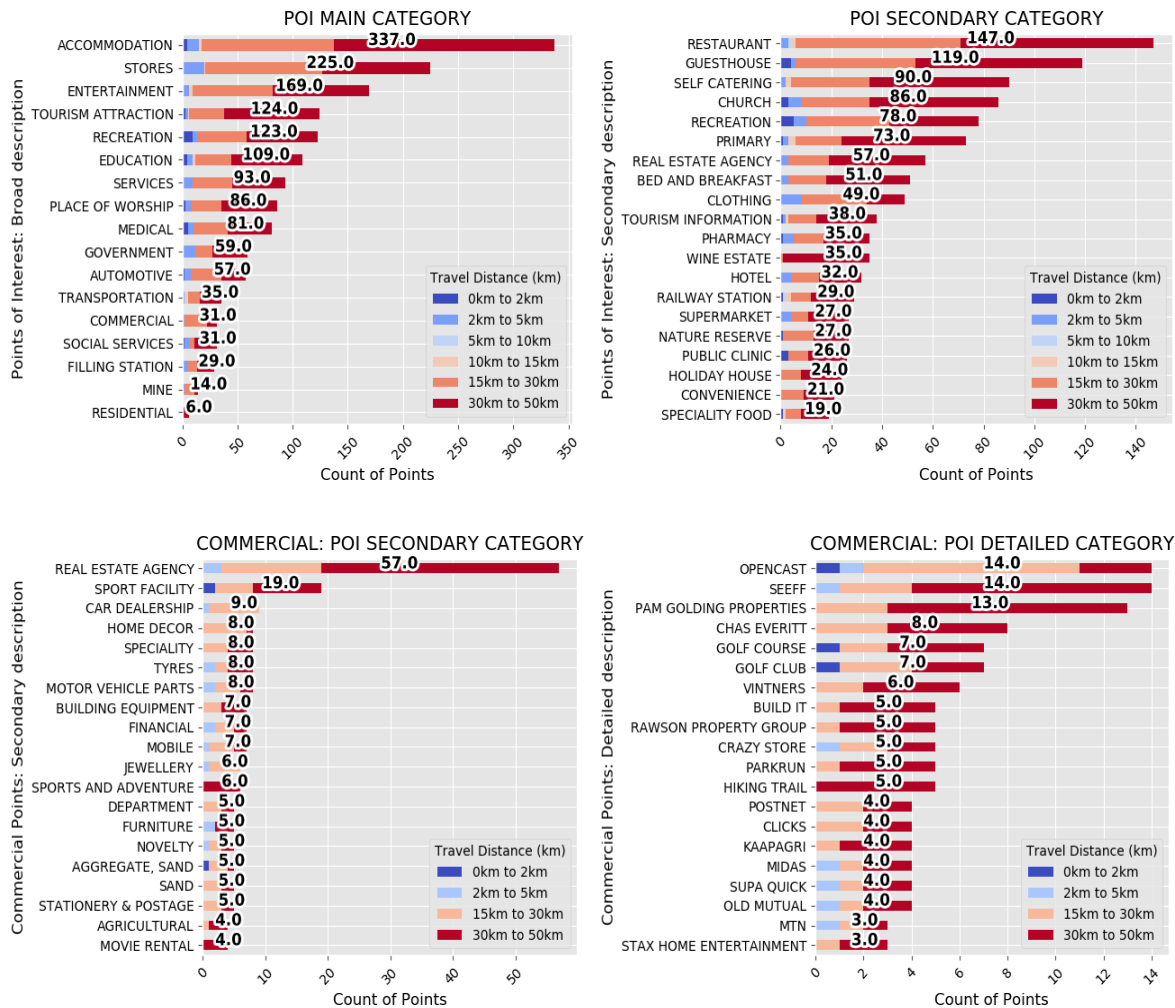
## 5.2.6 BOLAND TVET COLLEGE : CALEDON CAMPUS: DEMOGRAPHICS







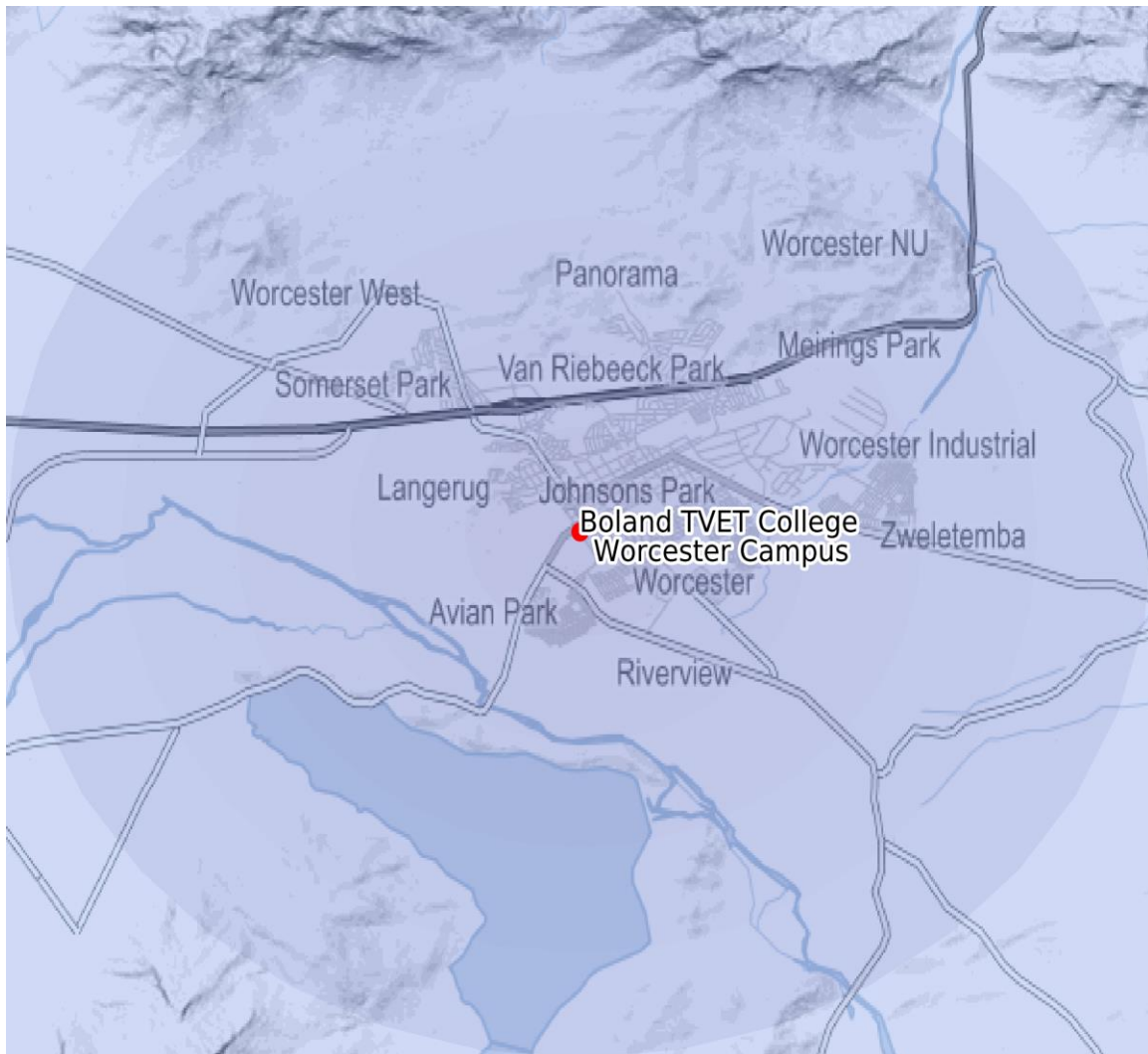
## 5.2.6 BOLAND TVET COLLEGE : CALEDON CAMPUS: POINTS OF INTEREST



### 5.2.7 BOLAND TVET COLLEGE : WORCESTER CAMPUS



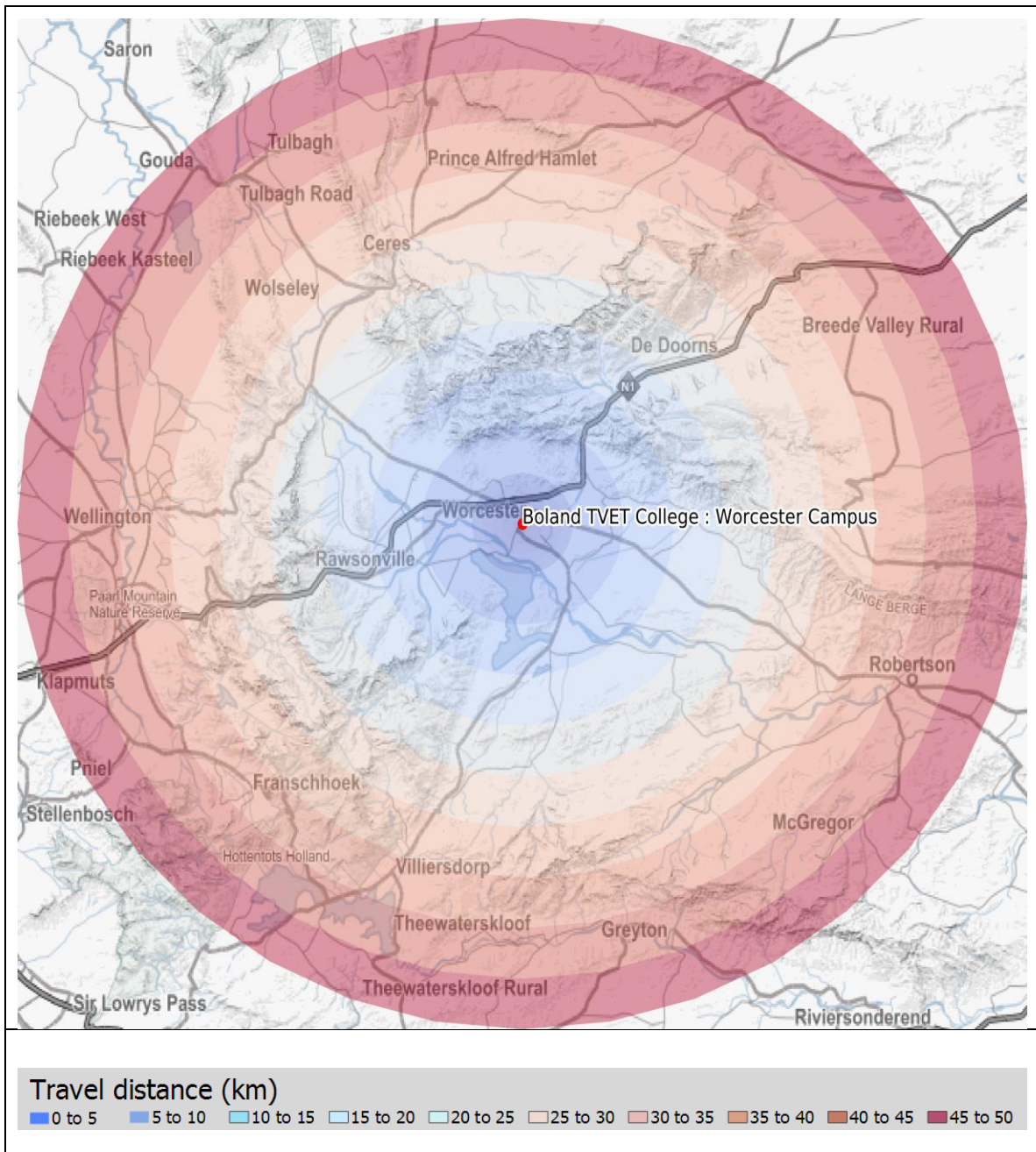
Sub-Classification: B 2  
Location Confidence: 5  
Province: Western Cape  
Municipality: Breede Valley Local Municipality  
Town: Worcester  
Address: 1 Rainier Street Worcester 6850  
Head Office Travel Distance (km): 77.87  
Head Office Travel Time (min): 74.84



#### Travel distance (km)

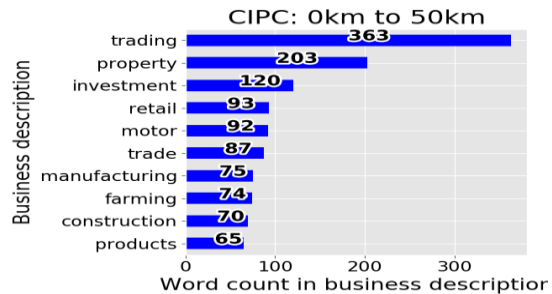
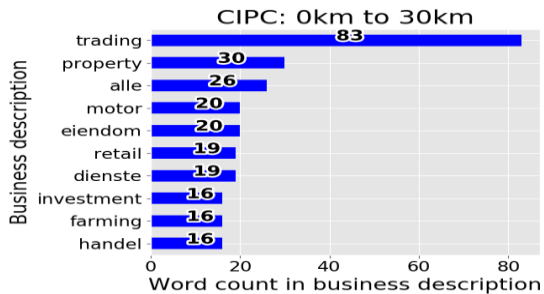
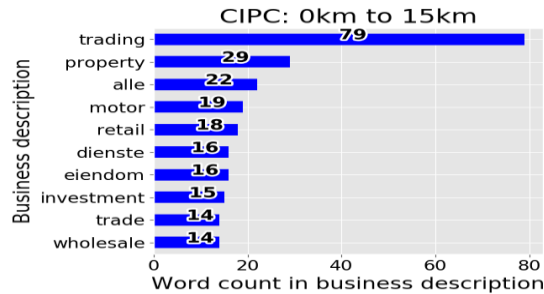
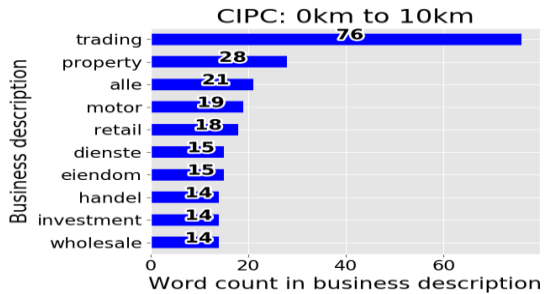
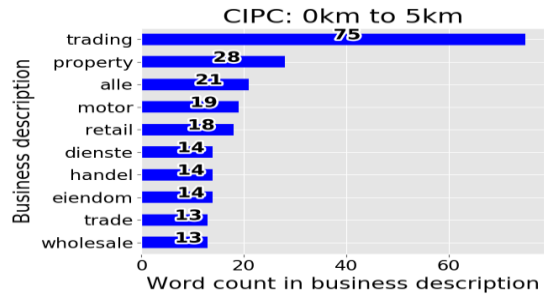
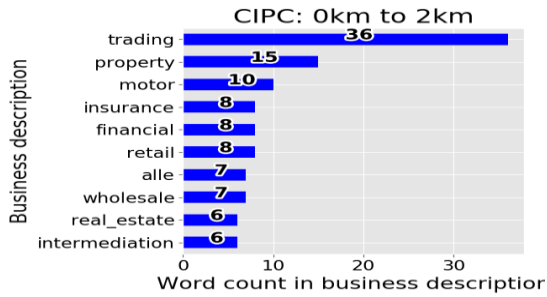
0 to 5 5 to 10 10 to 15 15 to 20 20 to 25 25 to 30 30 to 35 35 to 40 40 to 45 45 to 50

5.2.7 BOLAND TVET COLLEGE : WORCESTER CAMPUS: 50KM RADIUS

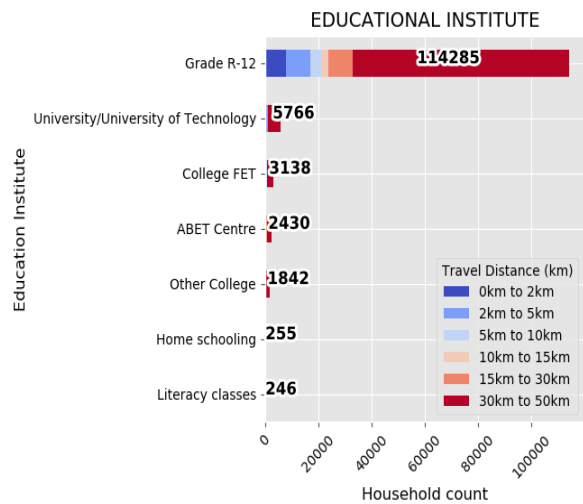
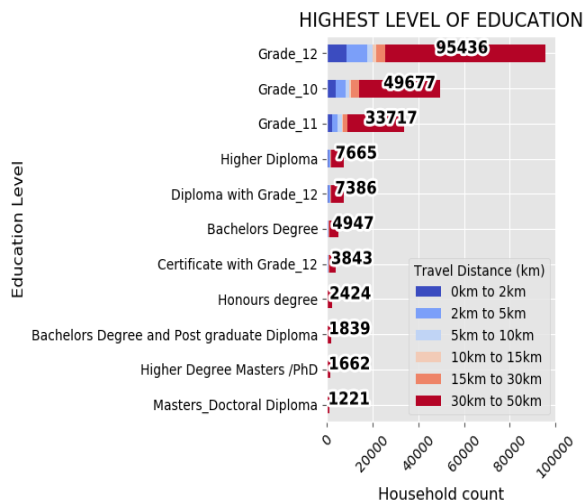
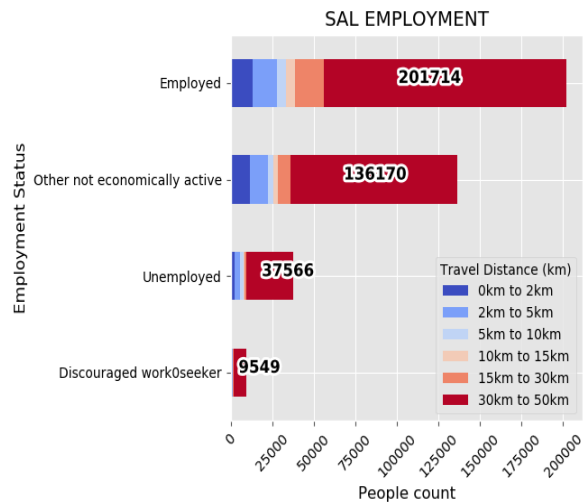
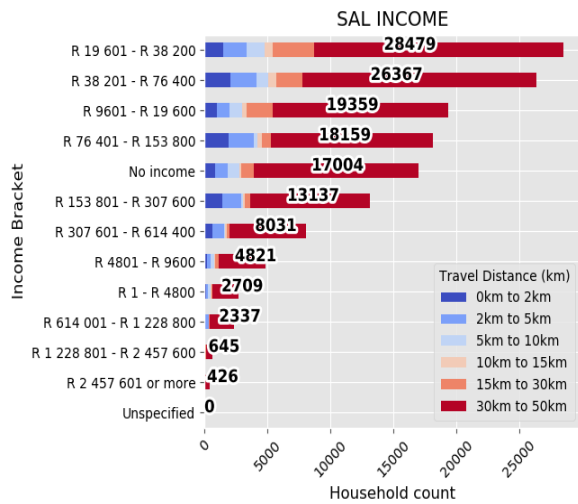
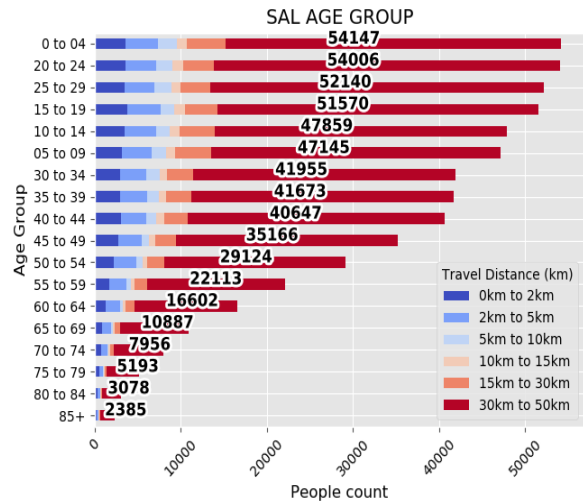
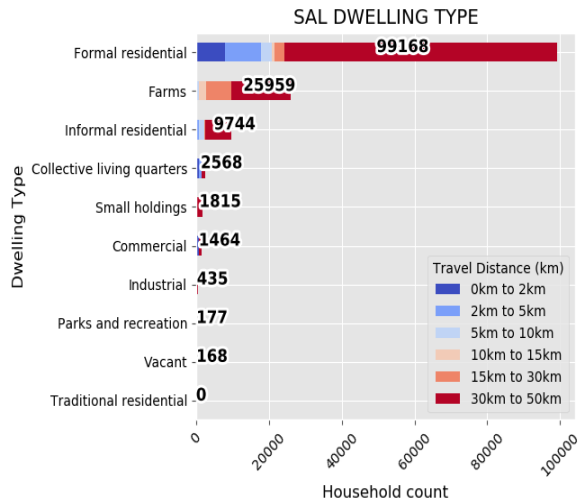


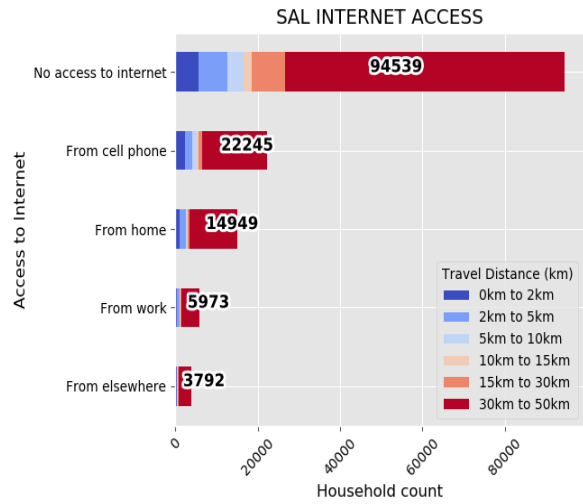
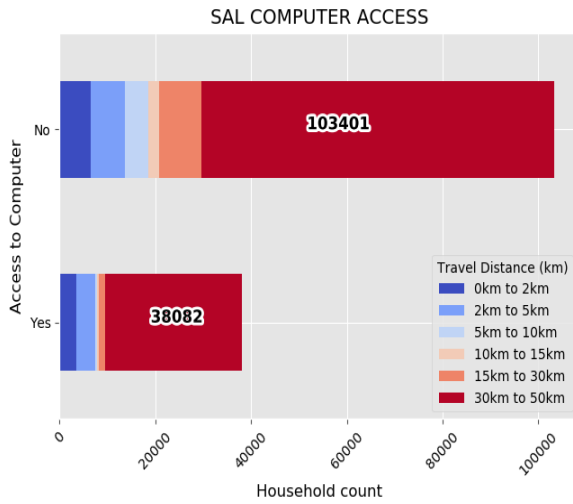


### 5.2.7 BOLAND TVET COLLEGE : WORCESTER CAMPUS: CIPC INFOGRAPHICS



## 5.2.7 BOLAND TVET COLLEGE : WORCESTER CAMPUS: DEMOGRAPHICS





## BOLAND TVET COLLEGE : WORCESTER CAMPUS: POINTS OF INTEREST

