

Table of Contents

- Introduction 1
- 1 Provinces, Municipalities, District Councils, Magisterial Districts, Electoral Wards, Tribal Authorities 2
- 2 AfriGIS National Address Database (NAD) 4
- 3 AfriGIS Cadastre 6
- 4 Deeds Data 8
- 5 AfriGIS Street Centrelines 9
- 6 AfriGIS Points of Interest 11
- 7 AfriGIS Suburb Boundaries 12
- 8 AfriGIS Town Boundaries 13
- 9 AfriGIS Postal Codes 14
- 10 AfriGIS Postal Code Regions 15
- 11 AfriGIS Sectional Schemes 16
- 12 AfriGIS Proclaimed Town Boundaries 17
- 13 AfriGIS Built Up Coverage 18
- 14 AfriGIS Gated Communities 19
- 15 AfriGIS BizCount 21



Introduction

1.1 Background

AfriGIS is a vendor for spatial datasets, most prominent being the National Address Database (NAD), national coverage of Cadastral boundaries and Street Centre Lines (SCL) for South Africa. We link and integrate the NAD (addresses) to the Cadastre (stands) and the Deeds (title) to provide unique business applications such as property and municipal management. Our datasets conform to the South African Geospatial Data Dictionary (SAGDaD) Standards. We are a preferred data supplier to various government departments, SITA, parastatels and many corporate clients.

1.2 Structure of Data Catalogue document

For ease of use, this document has been structured for each of our datasets listed as follows:

- Image of the dataset with rendering;
- Description;
- Key Features such as the source;
- Technical Information such as the Data format, Projection and coordinate system;

1.3 Data Licensing

Data prices are generally based on selling a data license for internal use and not for packaging the data with third party products or other forms of dissemination. Please read the Terms and Conditions in Section 14 or contact us should you have any queries. A comprehensive pricelist for all datasets can be provided on request.

1.4 Maintenance

A dedicated team of GIS data experts continuously updates all datasets. Updated datasets are published quarterly and all additions are recorded in our Release Notes – available on request. Our quarterly maintenance releases are in:

- February
- May
- August
- November

1.5 Attributes, Statistics and Coverage

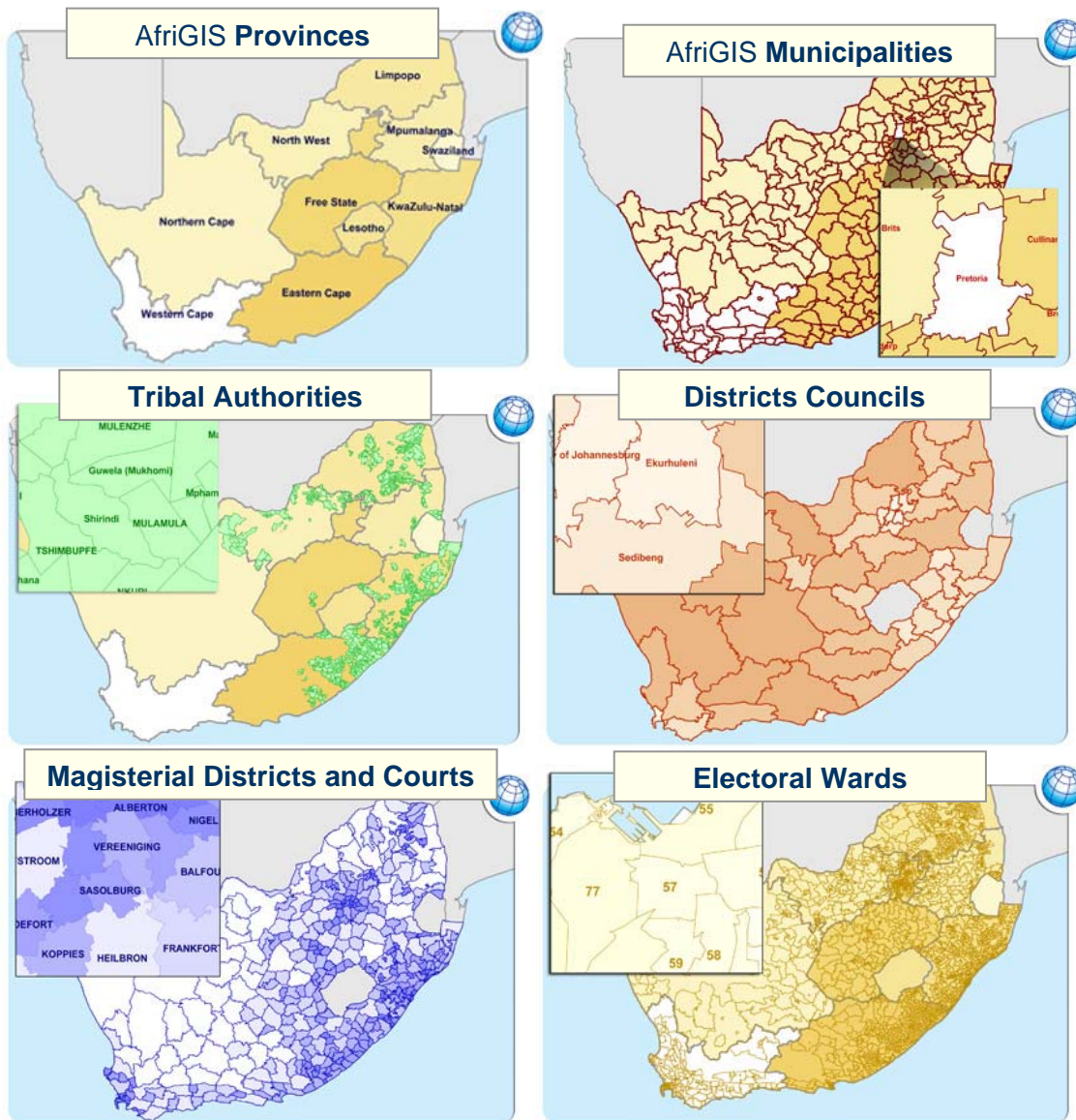
The Release Notes include a list and description of attributes of each dataset, as well as statistics (e.g. number of points per area) and coverage. The Release Notes are available on request.

1.6 Demonstration, Quotations and Sample data

To arrange a demonstration of any of our datasets, or to request a quotation or sample data, please contact us at gisinfo@afrigis.co.za or 087 310 6400.



1 Provinces, Municipalities, District Councils, Magisterial Districts, Electoral Wards, Tribal Authorities



Description

These datasets show the official administrative boundaries as supplied by the Municipal Demarcation Board and Department of Land Affairs. A unique AfriGIS ID is added to each feature.

Key Features

- AfriGIS ID remains unique even after name changes occur (e.g. Limpopo).
- Datasets are provided free of charge together with the other datasets.
- Updates from the demarcation board and other sources are integrated regularly.
- Each polygon is classified according to the SANS 1880:2003 Edition 1

Technical

Source : Municipal Demarcation Board / Department of Land Affairs
Last Update : 31 May 2011
Filename : ag_province_wgs84_201105 (Provinces)
: ag_dc_wgs84_201105 (District Councils)
: ag_munics_wgs84_201105 (Municipalities)
: ag_md_wgs84_201105 (Magisterial Districts)
: ag_wards_wgs84_201105 (Wards)
: ag_tribal_wgs84_201105 (Tribal Authorities)
Format : TAB, SHP, DBD, CDF, ORACLE
Projection : Longitude / Latitude (WGS84)



2 AfriGIS National Address Database (NAD)



Description

The NAD is a comprehensive spatial database of physical street addresses in South Africa. The AfriGIS National Address Database (NAD) not only contains the coordinates (longitude/latitude) for the individual properties, but also the correct hierarchy string for the street address. The Street Number is linked to the Street Name, which is linked to the Suburb, to the City/Town, and to the Province. The coordinates are given as the centroid of the individual properties.

Key Features

- Each street address has a unique numeric AfriGIS NAD ID
- AfriGIS NAD ID remains unique despite street name changes
- Audit trails of all updates to the AfriGIS NAD
- Metadata is available for each street address
- Approximately 5 million street addresses for South Africa
- Not found address verification service (Cambio process) available.
- Street addresses are linked to deeds and cadastral (land parcels) information
- The AfriGIS suburb and town, proclaimed town, municipality and province names are included for each street address.
- Daily updates to the AfriGIS NAD
- New street addresses are regularly sourced from local authorities

Technical

Source : Local Authorities and AfriGIS Cadastre
Last Update : 31 May 2011
Filename : ag_nad_wgs84_201105
Format : CSV, TAB, SQL, ORACLE
Projection : Longitude / Latitude (WGS84)



3 AfriGIS Cadastre



Description

The cadastre is a register of the surveyed property boundaries in the country, as captured by the Surveyor General's Offices around the country.

Key Features

- Updates from the different Surveyor General Offices are integrated into a national dataset quarterly.
- Farm names are provided for Farms and Farm Portions.
- The AfriGIS suburb and town, municipality, SG Admin and province names are included for Farms and Farm Portions.
- The AfriGIS suburb and town, municipality, SG Admin, SG Town and province names are included for Erven, Holdings and Parks.
- Dataset can be supplied as Single Layer (limited attributes) or layers per land parcel type.
- Land parcel type includes farms, farm portions, agricultural holdings, erven and parks or open areas.
- Land parcels are linked to street addresses and deeds information (bonds and property transfer) – not included in this dataset.

Technical

AfriGIS Single Layer Cadastre

Last Update : 31 May 2011

Source : Surveyor General

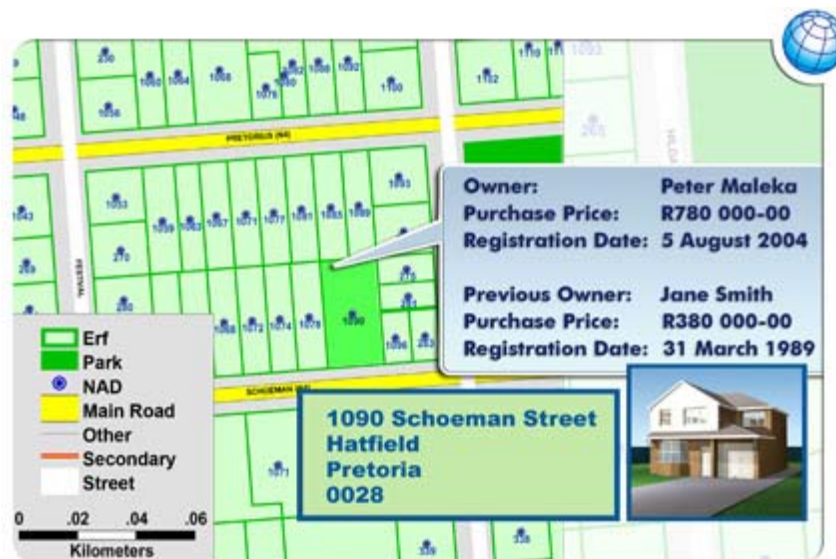
Filename : ag_cad_wgs84_201105
: ag_caderven_wgs84_201105
: ag_cadparks_wgs84_201105
: ag_cadfarms_wgs84_201105
: ag_cadholdings_wgs84_201105
: ag_cadfportions_wgs84_201105
: ag_cadstreets_wgs84_201105

Format : TAB, ORACLE (Single Layer)
: ORACLE, SHP (Layers per land parcel type)

Projection : Longitude / Latitude (WGS84)



4 Deeds Data



Description

Monthly bonds and transfers as registered with the deeds office since 1997. These datasets are linked to the AfriGIS Cadastre and AfriGIS National Address Dictionary datasets.

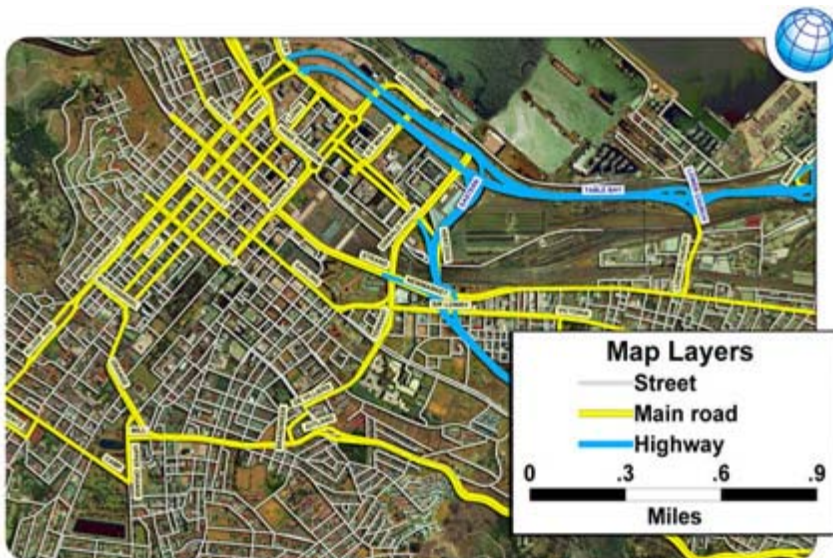
Key Features

- Deeds data is linked to street addresses and the cadastre (land parcels).
- Includes monthly updates to the lists of sectional schemes, towns, holding areas and farms.
- Includes all property transfer information.
- Includes bond switching & cancellation information.
- The AfriGIS suburb and town, proclaimed town, municipality, magisterial district and province names are included for each transfer/bond.
- The dataset is monthly updated.
- Historic deeds data available back to 1997.
- Current & Historic Ownership

Technical

Source : Deeds Office
 Last Update : 31 May 2011
 Format : ORACLE, SQL Server, .TXT and .CSV

5 AfriGIS Street Centrelines



Description

This layer has five categories of roads for South Africa, including national, provincial and major roads as well as an in-depth network of streets for more than 200 towns. All major metropolitan areas in South Africa are covered. The layer is routable for scheduling and delivery purposes.

Key Features

- Average speed and travel times for each link in the street centre line dataset is provided.
- Direction (one-way or bi-directional) for each link in the street centre line dataset is provided.
- Data updates are regularly sourced from local authorities
- Metadata is available for each link in the street centre line dataset
- The AfriGIS suburb and town, municipality and province names for each street link are included.
- Each street link is classified according to the SANS 1880:2003 Edition 1

Technical

Source	:	Local Authorities, CDSM and SG Cadastre
Last Update	:	31 May 2011
Filename	:	ag_scl_wgs84_201105
Format	:	TAB, SHP, DBD, CDF, ORACLE
Projection	:	Longitude / Latitude (WGS84)



6 AfriGIS Points of Interest



Description

This dataset includes more than 110,000 points of interest, including 15 main categories and over 100 sub-categories.

Key Features

- Categories include the following: accommodation, filling stations, retail stores, tourism attractions, medical facilities, car dealerships and more.
- Use this dataset to locate the nearest place of interest.
- Metadata is available for each point.
- The AfriGIS Points dataset is constantly updated.
- Each point is classified according to the SANS 1880:2003 Edition 1

Technical

Source	:	Various Suppliers
Last Update	:	31 May 2011
Filename	:	ag_points_wgs84_201105
Format	:	TAB, SHP, DBD, CDF, ORACLE
Projection	:	Longitude / Latitude (WGS84)



7 AfriGIS Suburb Boundaries



Description

This dataset includes more than 19,000 suburb boundaries of the metropolitan, major towns and villages in the country. The associated postal codes for box and street delivery per suburb are also included.

Key Features

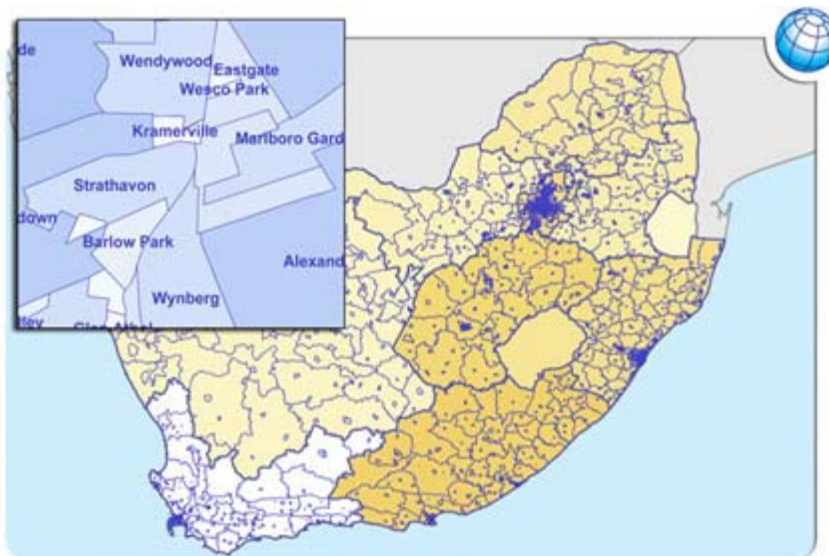
- AfriGIS suburb boundaries are aligned with the AfriGIS Town boundaries.
- AfriGIS Suburb ID remains unique despite name changes (e.g. Pietersburg to Polokwane).
- Old Suburb names are maintained in the dataset (e.g. Pietersburg).
- Security estates are included as suburbs and the Proclaimed Town names are also listed.
- Metadata is available for each suburb boundary
- Suburb boundary updates are regularly sourced from local authorities.
- The AfriGIS town, municipality and province names for each suburb are included.
- Each polygon is classified according to the SANS 1880:2003 Edition 1.
- Suburb extensions are generally combined into one area, although some exceptions are allowed.

Technical

Source	:	Local Authorities, Developers, Estate Agents
Last Update	:	31 May 2011
Filename	:	ag_suburbs_wgs84_201105
Format	:	TAB, SHP, DBD, CDF, ORACLE
Projection	:	Longitude / Latitude (WGS84)



8 AfriGIS Town Boundaries



Description

This layer consists of boundaries of the old towns or municipalities aligned with the official municipal boundaries. For example the Sandton boundary is part of the City of Johannesburg. Similarly, in the rural areas town boundaries for towns such as Brits and Magaliesburg are included. Custom town boundaries for well known “unofficial” places such as the Bluff in Durban has also been created.

Key Features

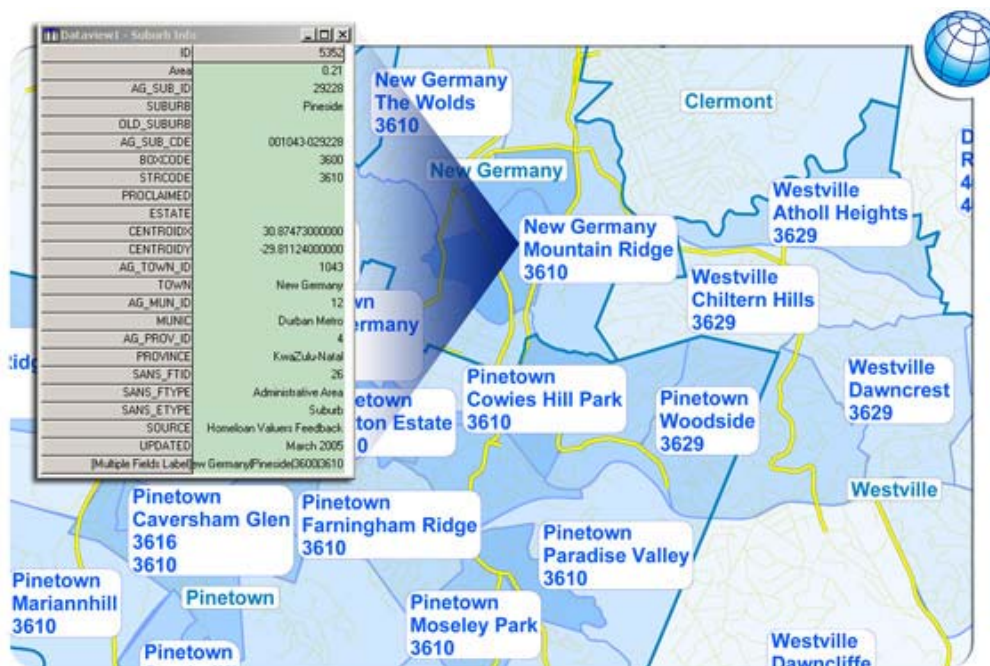
- AfriGIS town boundaries are aligned with the official municipal boundaries.
- AfriGIS ID remains unique even after name changes occur (e.g. Pietersburg to Polokwane).
- The Old Town names are maintained in the dataset (e.g. Pietersburg).
- Metadata is available for each town boundary.
- The municipality and province for each town is included.
- Each polygon is classified according to the SANS 1880:2003 Edition 1

Technical

Source	:	Pre-2000 Town Boundaries, Post-2000 (demarcated) Municipal Boundaries, municipalities and other.
Last Update	:	31 May 2011
Filename	:	ag_towns_wgs84_201105
Format	:	TAB, SHP, DBD, CDF, ORACLE
Projection	:	Longitude / Latitude (WGS84)



9 AfriGIS Postal Codes



Description

This dataset is compiled from the official postal code tables supplied by the South African Post Office. As registered Postal Address Management Service Supplier (PAMSS), AfriGIS receives the latest table each month. Using this dataset together with the AfriGIS Suburb layer it is possible to map a customer dataset based on postal code.

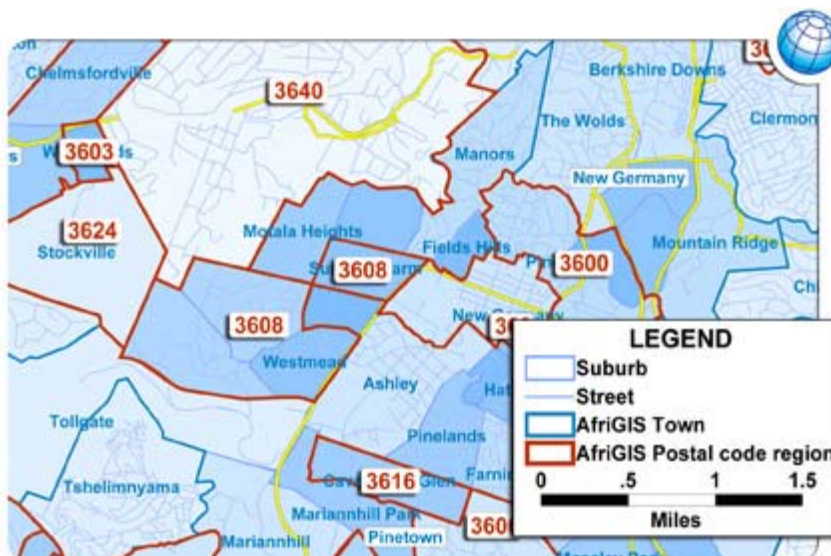
Key Features

- AfriGIS Postal Code ID remains unique.
- Old Suburb and Old Town name columns are maintained (e.g. Pietersburg).
- Alternative Town and suburb names are provided (e.g. Umtata and Mthatha).
- Postal Codes are linked to a municipal suburb in the AfriGIS suburb layer.
- This dataset can be used to validate postal addresses for both street and box delivery.
- This dataset can be used to geocode postal addresses.
- The province is provided for each postal code.

Technical

Source : SA Post Office
 Last Update : 31 May 2011
 Filename : ag_postalcodes_201105
 Format : MDB, ORACLE
 Projection : N/A for database

10 AfriGIS Postal Code Regions



Description

This dataset is a spatial representation of official postal code tables supplied by the South African Post Office. Suburbs with the same postal code are merged to form postal code regions. As registered Postal Address Management Service Supplier (PAMSS), AfriGIS receives the latest postal code table each month. This spatial dataset includes postal region boundaries for both box and street deliveries.

Key Features

- Based on the AfriGIS Suburbs.
- Updates from the Post Office are used to update the dataset on a quarterly basis.
- This dataset can be used to geocode by postal code only.

Technical

Source	:	South Africa Post Office and AfriGIS Suburbs
Last Update	:	31 May 2011
Filename	:	ag_boxcode_wgs84_201105
	:	ag_strcode_wgs84_201105
Format	:	TAB, DBD, CDF, SHP, ORACLE
Projection	:	Longitude / Latitude (WGS84)



11 AfriGIS Sectional Schemes



Description

This layer is a register of the sectional schemes titles as registered at the deeds office. Each sectional scheme is represented at a point feature in the dataset and includes the number of units.

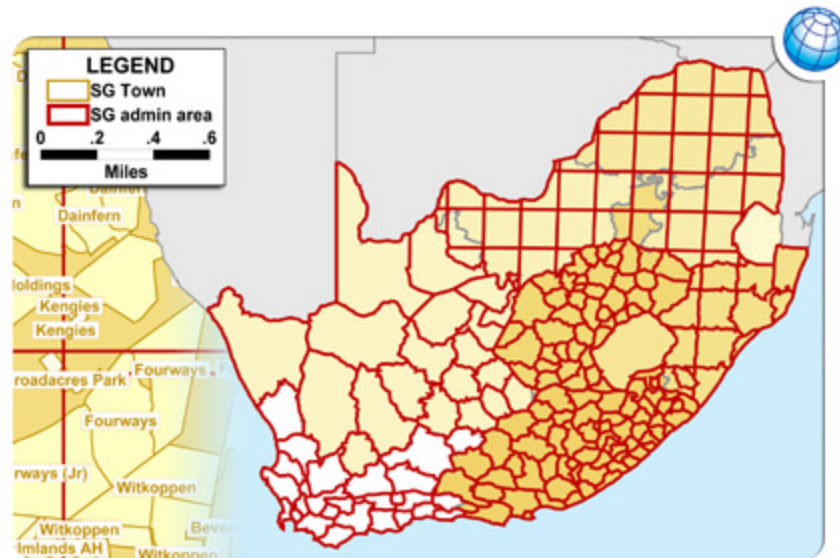
Key Features

- A nationally unique AfriGIS Sectional Scheme ID assigned to each scheme.
- Includes the number of units per scheme.
- A street address is included per scheme where available.
- The AfriGIS suburb and town, proclaimed town, municipality and province names are included for each sectional scheme.
- Monthly updates from the deeds office are integrated.
- Each point is classified according to the SANS 1880:2003 Edition 1

Technical

Source : Deeds Office
 Last Update : 31 May 2011
 Filename : ag_sectscheme_wgs84_201105
 Format : TAB, DBD, ORACLE
 Projection : Longitude / Latitude (WGS84)

12 AfriGIS Proclaimed Town Boundaries



Description

This layer shows the boundaries of proclaimed towns, also called townships, as surveyed by the Surveyor General and registered with the deeds office.

Key Features

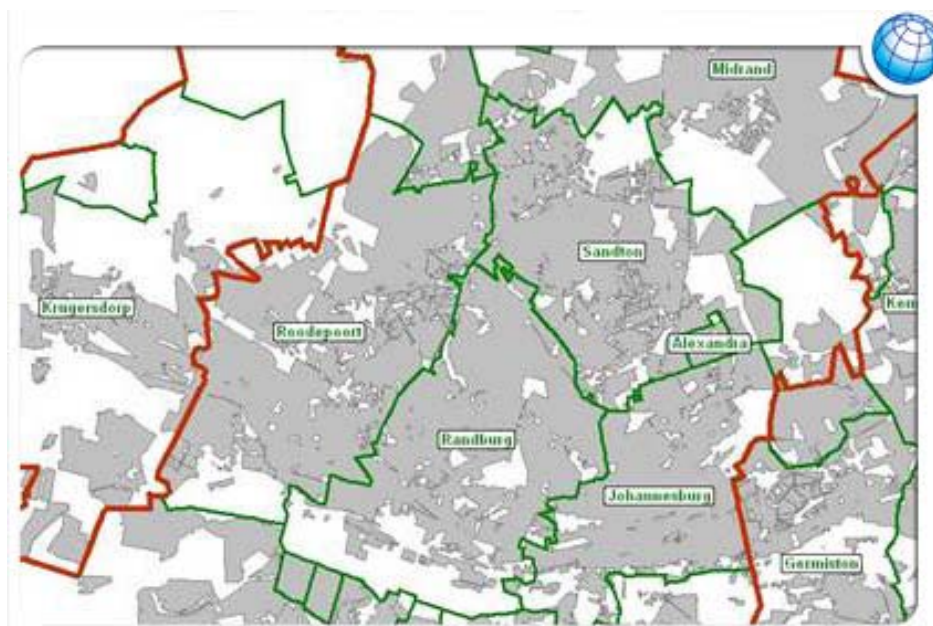
- AfriGIS Proclaimed Town ID remains unique.
- Includes the SG Town Code (e.g. F0030078) and the town name as supplied by the Surveyor General.
- Includes agricultural holding areas.
- The AfriGIS suburb, town, municipality and province names are included for each proclaimed town.
- Changes from the Surveyor General are updated quarterly.
- National coverage

Technical

Source : Surveyor General
Last Update : 31 May 2011
Filename : ag_sgtowns_wgs84_201105
Format : TAB, SHP, DBD, CDF, ORACLE
Projection : Longitude / Latitude (WGS84)



13 AfriGIS Built Up Coverage



Description

This dataset is a spatial representation of official build-up areas in South Africa as derived from the AfriGIS Proclaimed Towns. The Proclaimed Towns area merged in order to give National coverage of all areas covered by Proclaimed Towns and therefore even.

Key Features

- Based on the AfriGIS Proclaimed Towns.
- SG diagrams are used to update the dataset on a quarterly basis.

Technical

Source	:	SG Offices
Last Update	:	31 May 2011
Filename	:	ag_BuildupCoverage_wgs84_201105
Format	:	TAB, DBD, CDF, SHP
Projection	:	Longitude / Latitude (WGS84)

Description

A “gated community” is an area strictly controlled by entrances and exits for its residents, guests and/or the community. AfriGIS has extended this definition to include office parks and restricted access areas of high population concentration. The AfriGIS Gated Communities data layer includes sectional scheme or townhouse complexes, boomed off areas, business parks, golf and residential estates, as well as eco, wildlife and private estates. The polygon layer includes the number of stands and units in each area as well as the location attributes of suburb, town, municipality and province.

This dataset includes more than 26 000 gated communities throughout South Africa. The associated postal codes for box and street delivery per suburb are also included.

Key Features

- AfriGIS Gated Community ID remains unique despite name changes (e.g. Pietersburg to Polokwane).
- Metadata is available for each Gated Community boundary
- Gated Community boundary updates are regularly sourced from local authorities, estate agents, developers and the Deeds office.
- The AfriGIS town, municipality and province names for each Gated Community is included.
- Each polygon is classified according to the SANS 1880:2003 Edition 1.

Technical

Source	:	Local Authorities, Developers, Estate Agents, Deeds Office
Last Update	:	31 May 2011
Filename	:	ag_gatedcommunities_wgs84_201105
Format	:	TAB, SHP, DBD, CDF, ORACLE
Projection	:	Longitude / Latitude (WGS84)



15 AfriGIS BizCount

Description

This is a joint initiative between AfriGIS, Spatial Technologies and Matrix Marketing. The BizCount, which is geo-coded to street address, comprises over 70,000 companies that are grouped into more than 450 service classifications. The BizCount is updated twice per year and continues to grow as new companies are identified. A team of 65 researchers ensures the data is accurate, reliable and up to date. The data carries an A Grade post office PAMMS certification for accuracy. As companies move from one area to another, the changing patterns of target industries can be determined by comparing consecutive releases of BizCount.

The following business information will be available in the data set:

- Company Name
- Company Registration Number
- Trade Name or Division
- Postal Address
- Physical Address
- SIC Code
 - 453 codes with descriptions
 - Indicates the company's line of business
- Date of last update
- Auditor and Bankers
- Number of Employees
- Total Fleet size
- Cars, Trucks, LDV's
- Turnover
- Import, Export or Both
- BEE status

Technical

Source : Matrix Marketing
Last Update : 31 May 2011
Filename : AG_BUSINESS_WGS84_201105
Format : TAB, DBD, CDF, SHP
Projection : Longitude/Latitude (wgs84)

