



SANS 1883, *Geographic information – Addresses*

presented at
National Address Standards Workshop
Centurion Lake Hotel, Centurion, South Africa
17 November 2014

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“A world in one country”



South African addresses

Rapid urbanization

Informal settlements

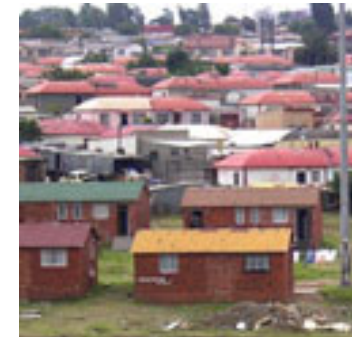


Apartheid legacy

Transformation of naming system

‘Addresses’ in historically black townships

Tribal areas



Many sources of address-related data

Municipalities, Post Office, StatsSA, etc.

Backlog in address assignment

Rural areas, as well as townships in urban areas

Lack of (digital) address data



South African address data

Street Address:
14 Glenvista Road
Woodhill
Pretoria
(City of Tshwane)
Gauteng

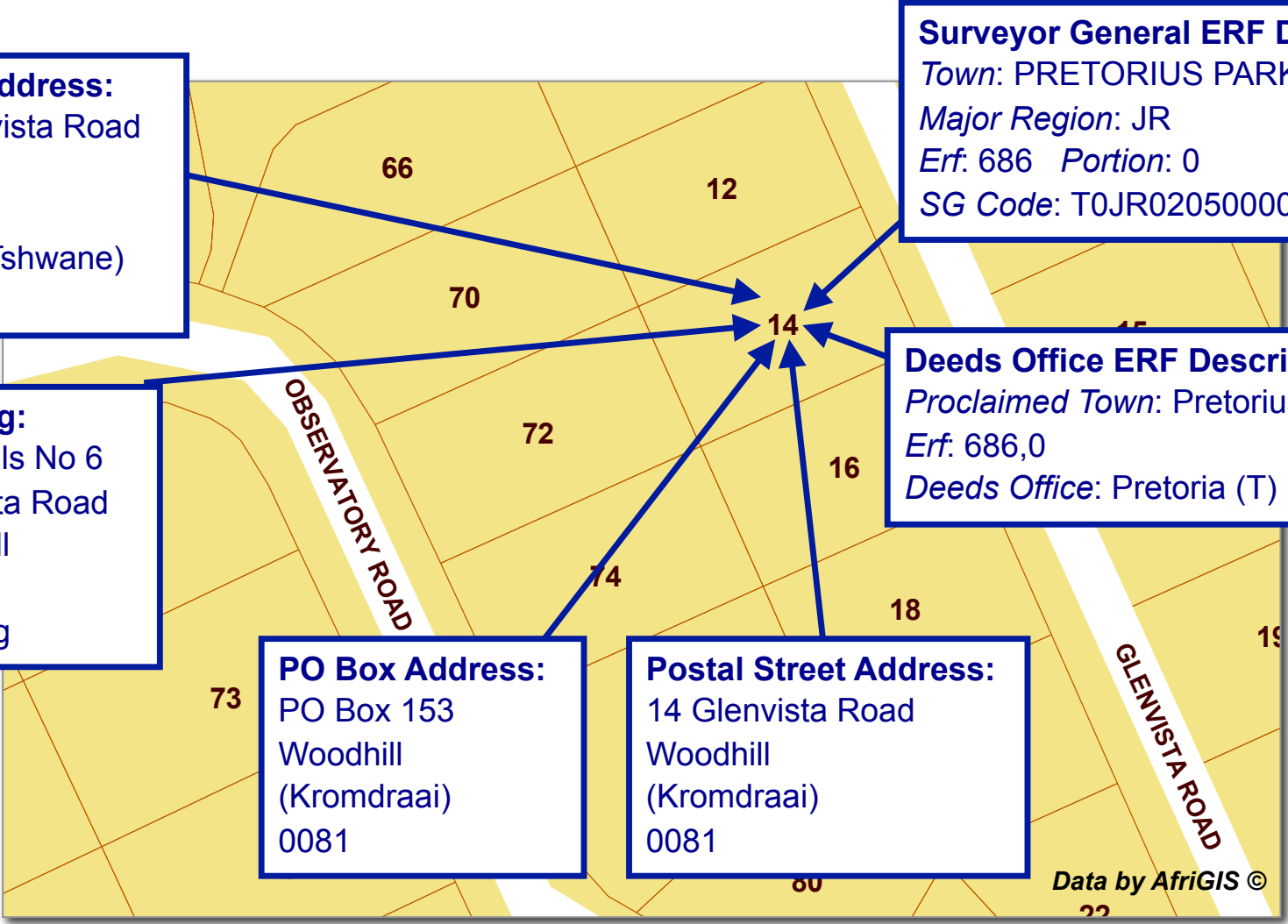
Surveyor General ERF Description:
Town: PRETORIUS PARK EXT 8
Major Region: JR
Erf: 686 *Portion:* 0
SG Code: T0JR02050000067600000

Deeds Office ERF Description:
Proclaimed Town: Pretorius Park Ext 8
Erf: 686,0
Deeds Office: Pretoria (T)

Building:
Glen Hills No 6
Glenvista Road
Woodhill
Pretoria
Gauteng

PO Box Address:
PO Box 153
Woodhill
(Kromdraai)
0081

Postal Street Address:
14 Glenvista Road
Woodhill
(Kromdraai)
0081



SANS 1883 Objectives

Support for

1. *Allocation* and management of addresses
2. Recording and *interchange* of addresses
3. *Geo-coding* and spatial representation of addresses
4. Delivery of *services* throughout South Africa
5. Support national *developmental* objectives

SANS 1883

SANS 1883-1:2009, *Geographic Information – Address*
Part 1: Data format of addresses



address types

SANS/WD 1883-2, *Geographic Information – Address*
Part 2: Guidelines for addresses in databases, data transfer, exchange and interoperability



exchange

SANS 1883-3:2009, *Geographic Information – Address*
Part 3: Guidelines for address allocation and updates



assignment scheme

SANS 1883-1 address types

an ***address*** unambiguously specifies
a point of service delivery

point of service delivery
actual location where a service is provided

SANS 1883-1 address types

‘Formalized’ <i>Street</i> <i>Intersection</i> <i>Site</i>	Composite <i>Building</i> <i>Landmark</i>
Descriptive <i>Farm</i> <i>Informal</i>	SA Post Office <i>PO Box</i> <i>Street</i> <i>Rural</i> <i>Site</i> <i>Post Restante</i>

SANS 1883-1 address types

‘Formalized’

Street Address

*Dr Lategan Road, Groenkloof
1736 Pretorius Street, Arcadia, 0083*



Intersection Address

Corner of Kings and Richmond Roads, Mowbray



Site Address

*25436 Soshanguve CC
Portion 938 Mooikloof*



SANS 1883-1 address types

Composite

Landmark Address

Parliament, Cape Town

Voortrekker Monument, Pretoria



Building Address

Election House, 260 Walker Street, Sunnyside

2nd Floor, Celtis Plaza, Schoeman Street, Hatfield



SANS 1883-1 address types

SA Post Office

SA Post Office-type Rural Village Address

012151 Ngxingxolo, Mooiplaas, 5228

SA Post Office Box Address

PO Box 2947, Hatfield, 0028, ZA

Private Bag X2438, Glenstantia, 0010

SAPO Poste Restante Address

Poste Restante, Hazyview, 3928



SANS 1883-1 address types

SA Post Office

SA Post Office Street Address

477 Chopin Street, Glenstantia, 0181

SAPO site address

9876 Zone H Mitchell's Plain 1685



SANS 1883-1 address types

Descriptive

Farm Address

Tabakskuur, Grootgelukplaas, Kimberley Road, Bloemfontein



Informal Address

Opposite the butcher shop, Tsamaya Street, Mamelodi

SANS 1883-1:2009

- Also included
 - Definitions and abbreviations
 - Attributes (metadata)
 - Address identifier, status, life cycle stage, etc.
 - Data elements
 - Address number, street name, place name, etc.
 - UML data model
 - Informative Annexes

SANS 1883-2 (unpublished)

SANS 1883-1: conceptual model (logical, e.g. UML)

SANS 1883-2: physical model (encoding, e.g. XML)

- *Scope statement*

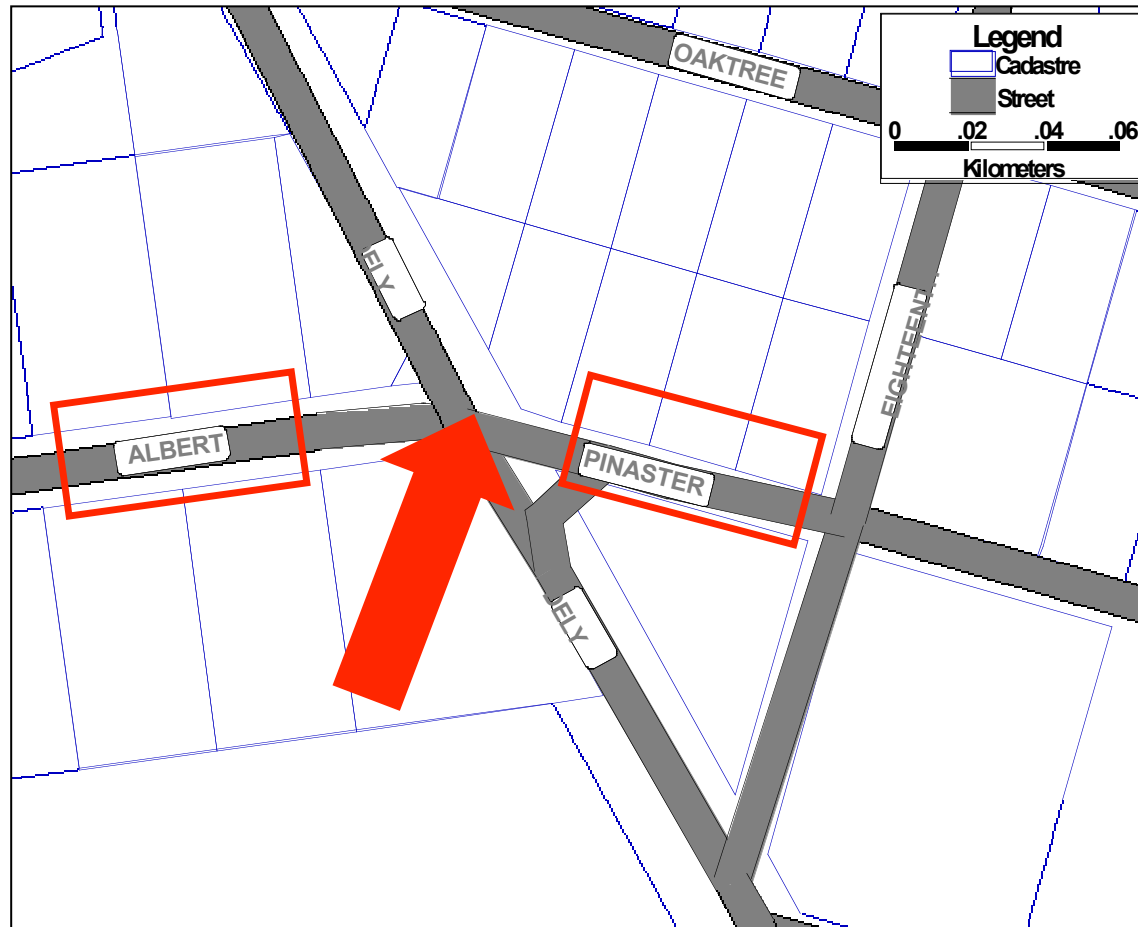
- This standard specifies ... how address data shall be **transferred or exchanged** between organizations.
- The standard specifies how **addresses complying with Part 1** shall be exchanged in **various encoding formats**.
- Geocoding, data cleaning and/or address verification are **examples** of where this transfer and exchange are required.

SANS 1883-3:2009

- Best practices
 - Compiled from participating municipal members
 - Example
 - Only change street names at intersections
 - How to handle eleven official languages
 - Street numbering
 - ...

SANS1883-3:2009

‘Formal’ address allocation: Street Names

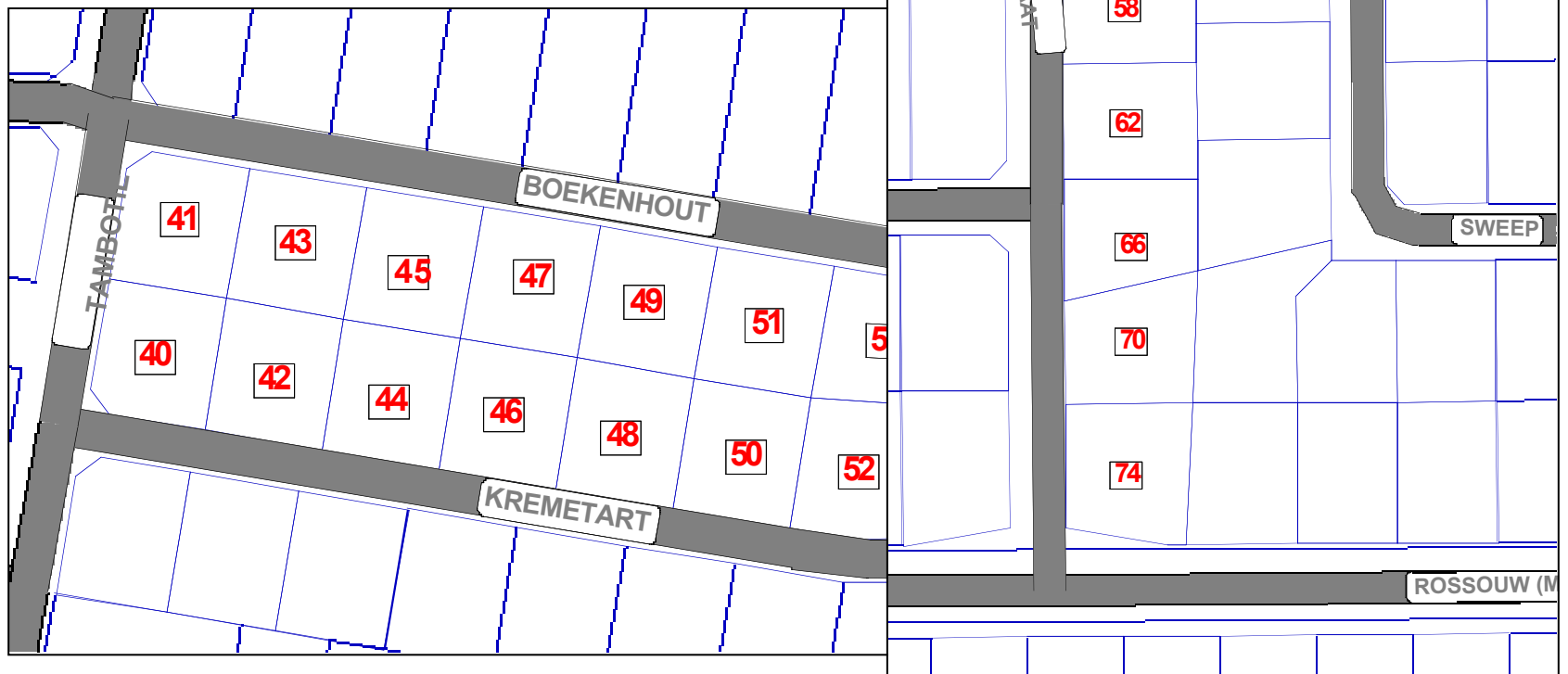


Source: AfriGIS Data

SANS1883-3:2009

‘Formal’ address allocation:

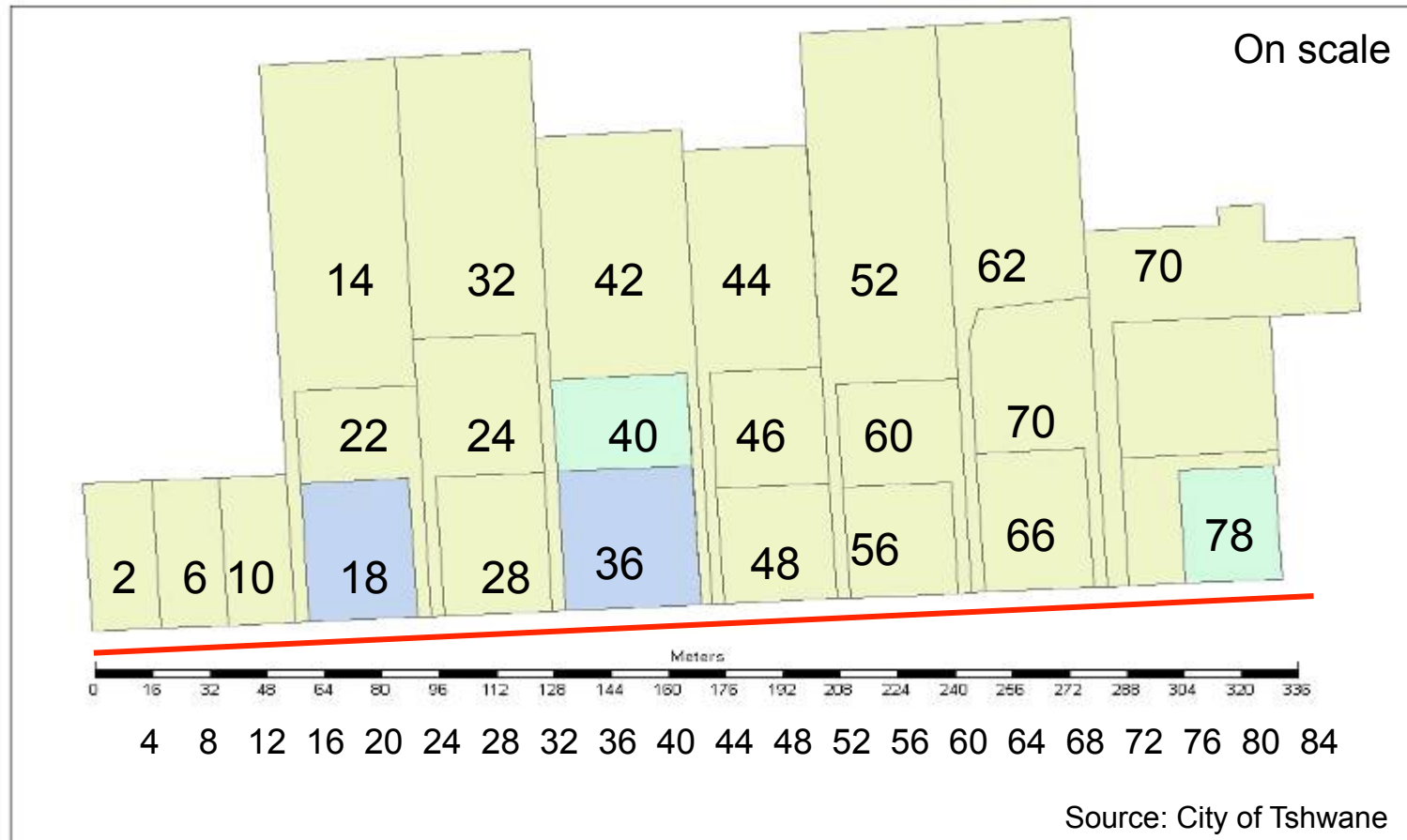
Street Numbering



Source: AfriGIS Data

SANS1883-3:2009

'Formal' address allocation: Street Numbering



SANS1883-3:2009

‘Informal’ address allocation

- SA Post Office guidelines for rural addresses
 - Example: address 010201
 - 01 –village code/village name
 - 02 –Zone/section/tribal boundary
 - 01 –House number/delivery point

Thank you

