



LOCATE XL

BULK GEOCODER &
REVERSE GEOCODER

What is LocateXL?

- An add-in to SpatialXL which is an open extensible Geocoder that works within Microsoft Excel or as a standalone application if you need to process hundreds of thousands or even a million records at a time.

Why use LocateXL?

- LocateXL uses a revolutionary full text and structured approach to process all kinds of datasets. Datasets may be totally unstructured or have some or all address fields specified. LocateXL is able to work with fields holding possible two address fields in one column extending the precision of the geocoding and the range of datasets it can successfully process.
- With LocateXL you are even able to build your own geocoding reference data for your country and region, from SQL databases, Shape Files or other sources.
- We supply datasets for South Africa right out of the box.
- Using the familiar Microsoft Excel environment you are able to filter out bad records, geocode subsets and change settings to match filtered subsets to easily geocode almost any dataset. During the geocoding process the correct canonical address is given back.
- Reverse geocoding (getting addresses back from Latitude and Longitude coordinates) is also possible one on one or in batch at very high speed.

Who uses LocateXL?



The above companies use or have used LocateXL plus a number of consultants that do geocoding type work.

Settings in LocateXL

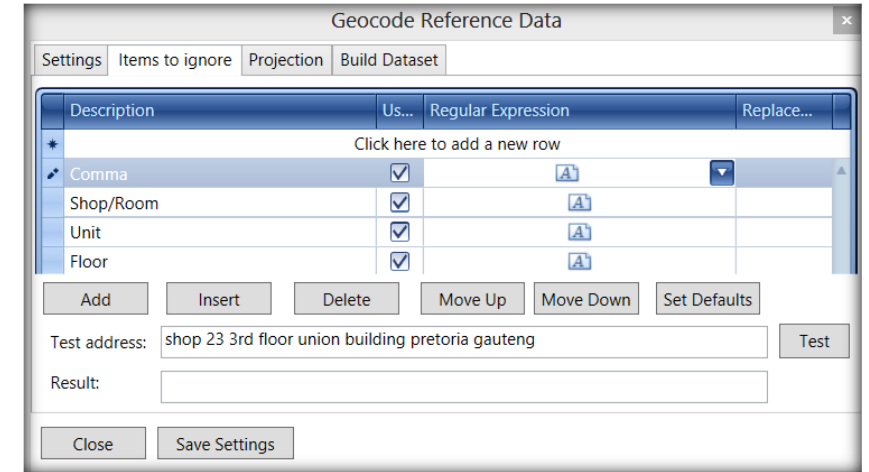
- LocateXL can use structured or unstructured geocoding or a combination of these.
- Uses different settings to determine the weight of a particular column, such as city, province or road names, thereby gearing the results perfectly to achieve the best possible matches.

ID	SUBBURB	Province
1	Alberton	Gauteng
2	Benoni	Gauteng
4	Brakpan	Gauteng
5	Bruma	Gauteng
5	Edenvale	Gauteng
8	Germiston	Gauteng

Street Address
Cnr Hennie Alberts and Michelle Avenue
Cnr Elston & Wilstead Road, Benoni
Cnr Century and Elsberg Roads, Brakpan
Cnr Mercia & Ernest Oppenheimer Streets, Edenvale
Cnr Beach and Elm Streets, Edenvale

Special settings

- A unique feature is that a distance check can be used as an additional measure for success to the original town or suburb to the geocoded record.
- Other settings are that it can also geocode to a set of points of interests or postal codes.
- Items to ignore that appear in the data but have no meaning such as shop, building etc, can be set to be ignored in a list.



Batch geocoding

- Batch geocoding of tens or even hundreds of thousands of records at any one time can be run. In fact the only limitation is Excel itself.

Quick geocoder

- The quick geocoder is to find a single address or set of addresses quickly and look at these on a map.
- It does this by searching and filtering in a grid.

The screenshot shows a search results table for the query 'lambert port alfred'. The table has four columns: 'Number', 'Road', 'Ext', and 'Suffix'. The data rows are as follows:

Number	Road	Ext	Suffix
	Lambert	Road	
	Lambert	Road	
	Lambert	Road	
	Lambert	Road	
	Lambert	Road	
	Dickinson	Road	
	Lambert	Road	
	Alfred	Road	
	Alfred	Road	
	Alfred	Road	
	Alfred	Road	
	Alfred	Road	
	Alfred	Road	

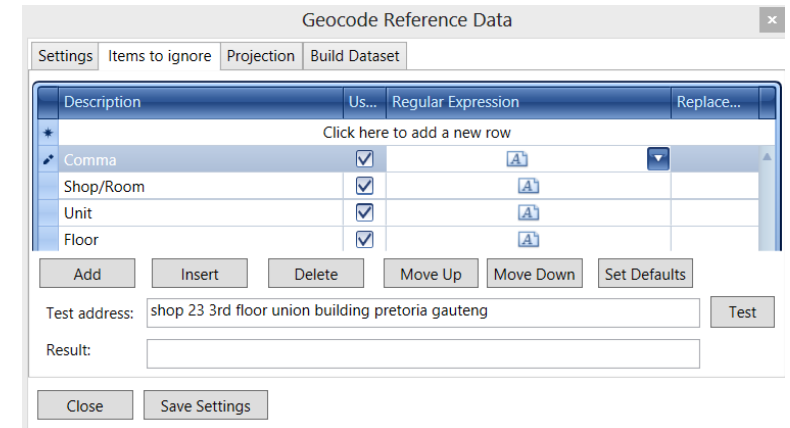
Results

The results have scores, and codes to indicate the level of match achieved. This allows you to eliminate successful matches fast by filtering and working on the remainder to achieve better results with multiple runs as needed.

The results that are returned are the following – amongst others:

- Status
- Number in road
- Road name
- POI match in road name (if applicable)
- Extension
- Crossing
- Suburb
- Town
- Province
- Distance check (if applicable)
- Latitude
- Longitude
- Confidence scoring (if applicable)

F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
Geocode Status	Geocode Number	Geocode Road	Geocode Ext	Geocode Suffix	Geocode Crossing	Geocode Suburb	Geocode Town	Geocode Province	Geocode Code	Geocode Score	Geocode Type	Geocode Source	X	Y
_R_C_TP_		Hennie Alberts	Street		Michelle	Meyersdal Ext 17	Alberton	Gauteng		4	Cnr	Mapit	28.0897848	-26.2895902
_R_CUTP_		Elston	Avenue		Wilstead	Benoni	Benoni	Gauteng		5	Cnr	Mapit	28.3231519	-26.1842592
_R_UTP_	12	Brakpan	Avenue			Brakpan	Brakpan	Gauteng		4	Str	Mapit	28.3593231	-26.2270256
_R_U_P_	23	Ernest Oppenheir	Avenue			Bruma	Bedfordview	Gauteng		3	Str	Mapit	28.1076862	-26.1819078
_R_UTP_	2	Elm	Street			Edenvale	Edenvale	Gauteng		4	Str	Mapit	28.1423837	-26.134958
_R_UTP_	36	Victoria	Street			Germiston	Germiston	Gauteng		3	Str	Mapit	28.159211	-26.2076498
_R_UTP_		Paardekraal	Drive			Krugersdorp	Krugersdorp	Gauteng		4	Str	Mapit	27.77794	-26.1091274
_R_CUTP_		Jacaranda	Avenue		Albert	Lenasia	Lenasia	Gauteng		5	Cnr	Mapit	27.8253548	-26.3254522
_R_P_	8	Naude	Street			Krugersdorp Wes	Krugersdorp	Gauteng		2	Str	Mapit	27.752966	-26.1019656



Codes for assigning

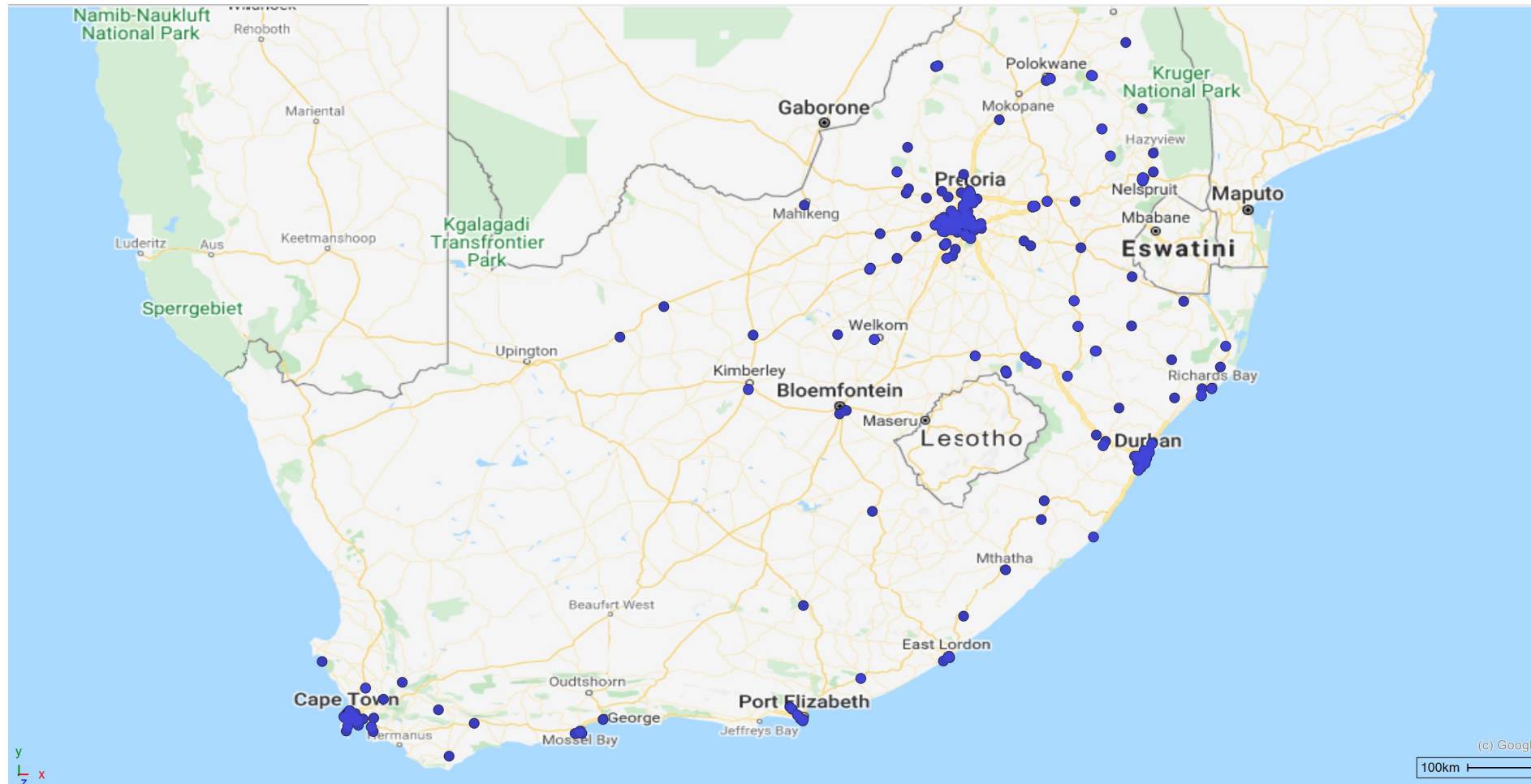
- The accuracy of the matches are mostly done by using codes to show what the match consisted off (as the below shows)
- This is shown in Excel and can further be analysed and used there.

NRESCUTPO

- ❖ N = Number match (example **18** Falcon Street)
- ❖ R = Road match (example 18 **Falcon** Street)
- ❖ E = Extension match (example 18 Falcon **Street**)
- ❖ S = Suffix match (example West, South, North such as Main Street West)
- ❖ C = Crossing match. When a crossing is in the result, it will display the name of the second street (example Cnr Falcon and **Smith** Street)
- ❖ U = Suburb match
- ❖ T = Town match
- ❖ P = Province match
- ❖ O = Postal code match
- ❖ F = Fail
- ❖ _ = No match

Displaying results on a map

- Geocoded records can be displayed on a map using SpatialXL.



What our clients say

- *“A lot of our clients have postal codes and it is very helpful that we can use these to locate some address when all else fails.”*
- *“I have used this geocoder on my rural data and it gives me flexibility because I can control the settings to get better results.”*
- *“We have used this product to locate in excess of 4 million records, saving years of man hours.”*



THANK YOU

Visit primethought.biz for more information

or email

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