

# SSANTO - Results Report

## Carbon Emissions NBS

Carbon Emissions NBS

15% carbon emissions - new raster

### I - Objective hierarchy

Main objective

Type: Need

1-1 Minimize slope

Weight: 0.02

Attribute

Data ID	1-1_1234_Slope_vs_aec
Used column	First Layer
Data Type	Continuous
Attribute Type	Data
Used default value	Yes
Default value	0.0

1-3 Maximize Building Age

Weight: 0.07

Attribute

Data ID	1-3_all_Building_Age_vs_472
Used column	First Layer
Data Type	Continuous
Attribute Type	Data
Used default value	Yes
Scale	x
Default value	0.0

1-6 Minimize distance to streams

Weight: 0.05

Attribute

Data ID	1-6_all_Dist_Streams_vs_5e1
Used column	First Layer
Data Type	Continuous
Attribute Type	Data
Used default value	Yes
Scale	x
Default value	0.0

1-9 Prioritize important path flows

Weight: 0.03

Attribute

Data ID	1-9_all_Flow_Accumulation_vs_295
Used column	First Layer
Data Type	Continuous
Attribute Type	Data
Used default value	Yes
Scale	x
Default value	0.0

2-1 Prioritize areas with high env awareness

Weight: 0.05

Attribute

<b>Data ID</b>	2-1_all_Green_Votes_vs_fd3
<b>Used column</b>	First Layer
<b>Data Type</b>	Continuous
<b>Attribute Type</b>	Data
<b>Used default value</b>	Yes
<b>Scale</b>	x
<b>Default value</b>	0.0

3-1 Minimize distance to drainage

**Weight: 0.02**

Attribute

<b>Data ID</b>	3-1_all_Drainage_Distance_vs_bfb
<b>Used column</b>	First Layer
<b>Data Type</b>	Continuous
<b>Attribute Type</b>	Data
<b>Used default value</b>	Yes
<b>Scale</b>	x
<b>Default value</b>	0.0

3-2 Minimize distance to streets

**Weight: 0.02**

Attribute

<b>Data ID</b>	3-2_1234_Dist_Streets_vs_55d
<b>Used column</b>	First Layer
<b>Data Type</b>	Continuous
<b>Attribute Type</b>	Data
<b>Used default value</b>	Yes
<b>Scale</b>	x
<b>Default value</b>	0.0

3-3 Maximize distance to heritage sites

**Weight: 0.02**

Attribute

<b>Data ID</b>	3-3_all_Dist_Heritage_vs_983
<b>Used column</b>	First Layer
<b>Data Type</b>	Continuous
<b>Attribute Type</b>	Data
<b>Used default value</b>	Yes
<b>Scale</b>	x
<b>Default value</b>	0.0

4-1 Minimize distance to locations with irrigation demand

**Weight: 0.04**

Attribute

<b>Data ID</b>	4-1_all_Irrigation_Demand_vs_1b5
<b>Used column</b>	First Layer
<b>Data Type</b>	Continuous
<b>Attribute Type</b>	Data
<b>Used default value</b>	Yes
<b>Scale</b>	x
<b>Default value</b>	0.0

5-1 Prioritize areas with high imperviousness

**Weight: 0.1**

Attribute

<b>Data ID</b>	5-1_all_Imperviousness_vs_8e2
<b>Used column</b>	First Layer

<b>Data Type</b>	Continuous
<b>Attribute Type</b>	Data
<b>Used default value</b>	Yes
<b>Scale</b>	x
<b>Default value</b>	0.0

## 5-2 Prioritize areas with high heat vulnerability

**Weight: 0.15**

Attribute

<b>Data ID</b>	5-2_all_Heat_vulnerability_vs_206
<b>Used column</b>	First Layer
<b>Data Type</b>	Continuous
<b>Attribute Type</b>	Data
<b>Used default value</b>	Yes
<b>Scale</b>	x
<b>Default value</b>	0.0

## 6-1 Prioritize areas with high visibility

**Weight: 0.08**

Attribute

<b>Data ID</b>	6-1_all_Visibility_vs_9be
<b>Used column</b>	First Layer
<b>Data Type</b>	Continuous
<b>Attribute Type</b>	Data
<b>Used default value</b>	Yes
<b>Scale</b>	x
<b>Default value</b>	0.0

## 6-2 Minimize distance to recreational areas

**Weight: 0.01**

Attribute

<b>Data ID</b>	6-2_all_Recreational_vs_c8e
<b>Used column</b>	First Layer
<b>Data Type</b>	Continuous
<b>Attribute Type</b>	Data
<b>Used default value</b>	Yes
<b>Scale</b>	x
<b>Default value</b>	0.0

## 7-1 Prioritize areas with low biodiversity

**Weight: 0.11**

Attribute

<b>Data ID</b>	7-1_all_NDVI_vs_f18
<b>Used column</b>	First Layer
<b>Data Type</b>	Continuous
<b>Attribute Type</b>	Data
<b>Used default value</b>	Yes
<b>Scale</b>	x
<b>Default value</b>	0.0

## 7-2 Prioritize areas with low functional connectivity

**Weight: 0.08**

Attribute

<b>Data ID</b>	7-2_all_Func_Connectivity_vs_2f0
<b>Used column</b>	First Layer
<b>Data Type</b>	Continuous
<b>Attribute Type</b>	Data
<b>Used default value</b>	Yes

<b>Scale</b>	x
<b>Default value</b>	0.0

8-1 Maximize residential emissions

**Weight: 0.15**

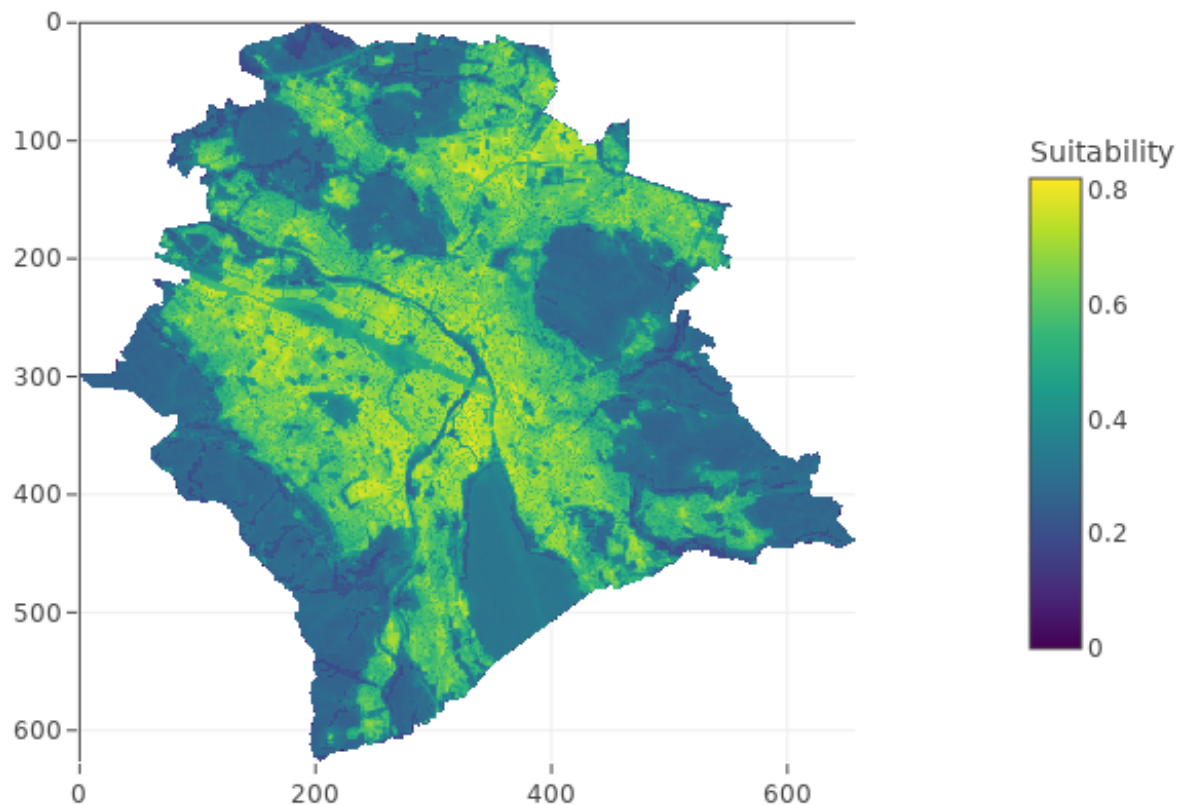
Attribute

<b>Data ID</b>	res_ind_high_res_e2d
<b>Used column</b>	First Layer
<b>Data Type</b>	Continuous
<b>Attribute Type</b>	Data
<b>Used default value</b>	Yes
<b>Scale</b>	$6.62 \times x - 80.1$
<b>Default value</b>	0.0

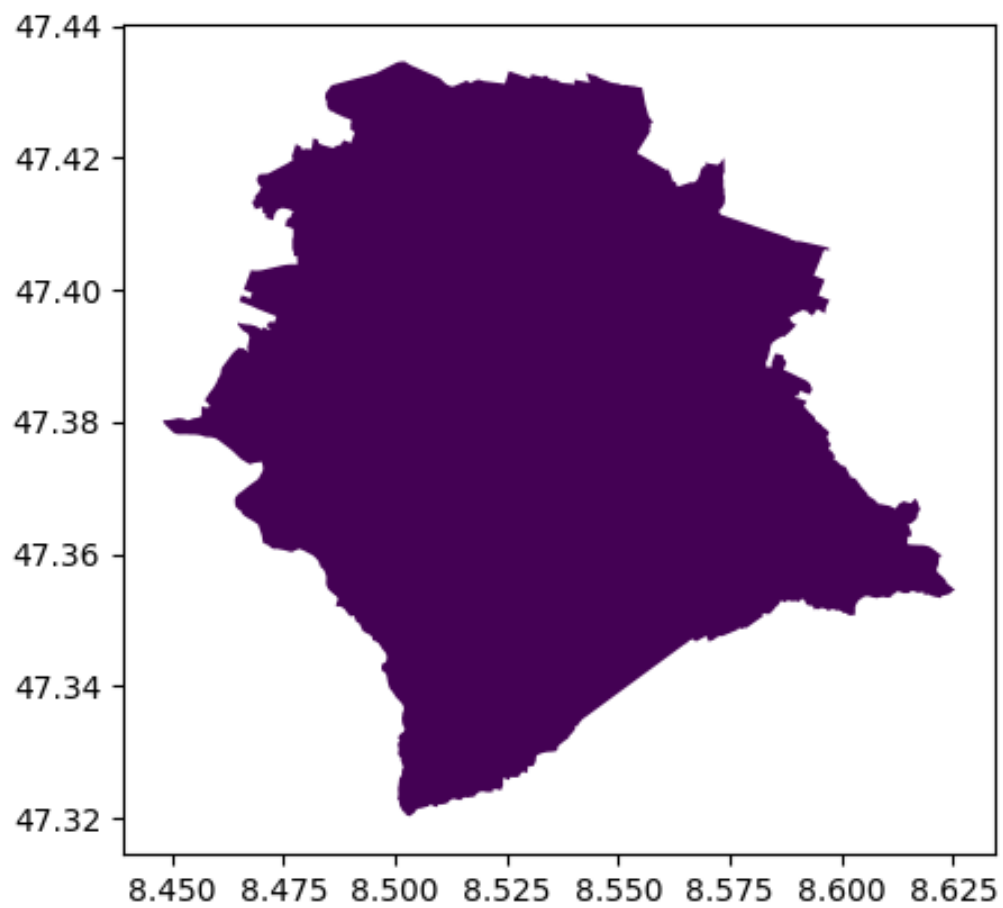
## II - Results

### 1. Suitability maps specific to each objective

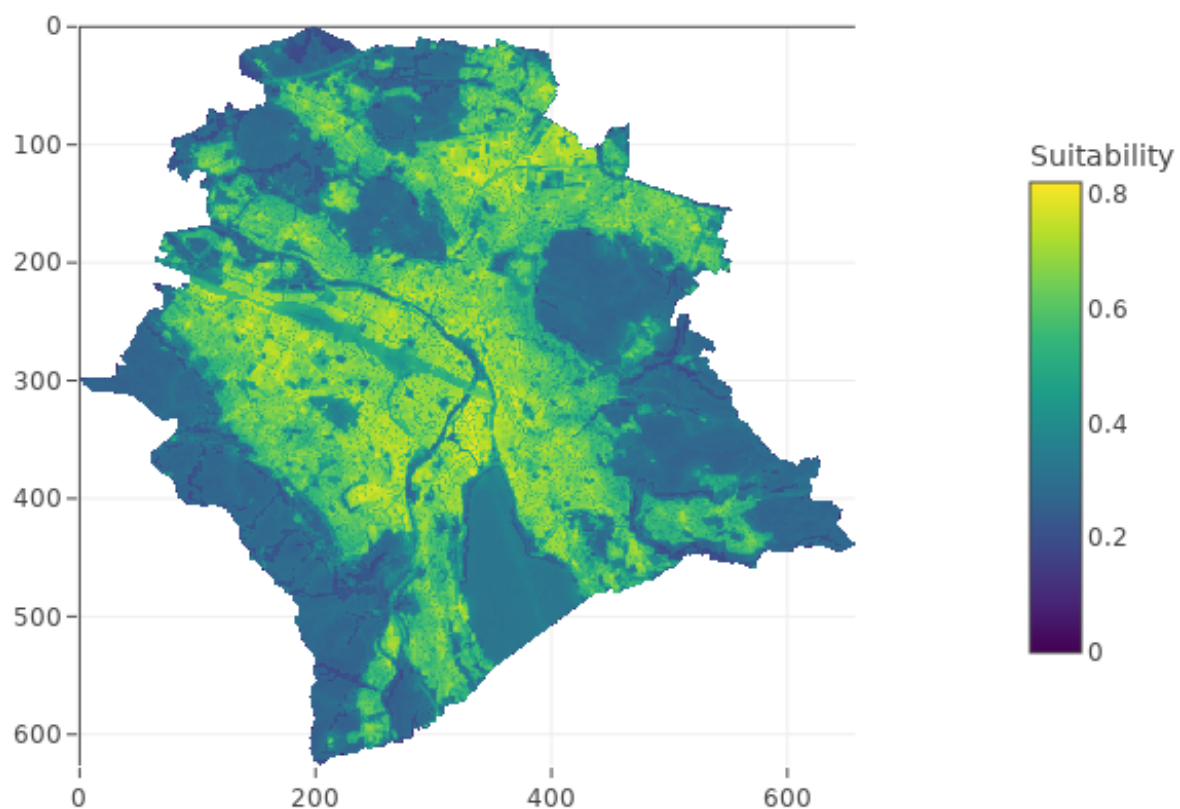
Main objective



### 2. Study Area



### 3. Need suitability map



## II - Statistics

Max suitability	Min suitability	Average suitability
0.8215618320521709	0.0	0.45333712801501697