



VISICOM PRODUCT DESCRIPTION

Ciudad Real city, Spain

3D City model

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GENERAL INFORMATION

Coverage

This geographic product covers 1,55 sq. km of Ciudad Real (Spain).

The geographic coordinates of the bounding rectangle (reference ellipsoid WGS 84) are the following:

W -3,934340°
N 38,995858°

W -3,919801°
N 38,995858°



W -3,934340°
N 38,979791°

W -3,919801°
N 38,979791°

Data presented in .shp, .skp, and .TIFF format

Package content includes:

- Digital Terrain Model (DTM) in .TIFF format (data in the **geotiff** folder);
- Orthoimagery in (Ortho) in .TIFF format (data in the **ortho** folder)
- Digital Terrain Model (DTM) and 3D Buildings in SketchUp.skp format (data in the **skp** folder);
- Polygonal vector layers are in Shape (Vegetation) and 3DShape (Buildings) format (data in the **shp** folder)
- In **.shp** folder presented:
.mxd-file (2D workspace for ArcMap)

Language: English

Resolution of matrix (cell size): 1m



CARTOGRAPHIC REFERENCE

Data are given in geographic coordinates on ellipsoid WGS 84 with the following references:

Ellipsoid

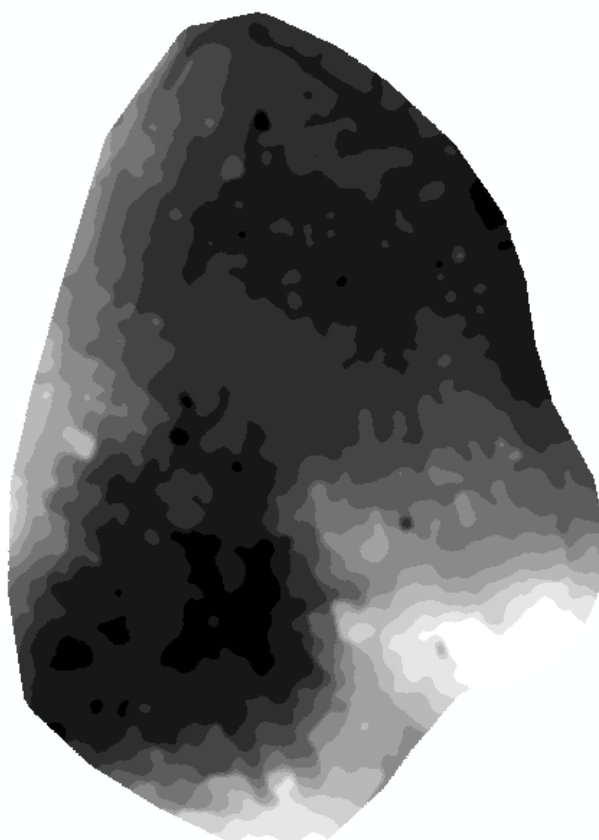
- Name: WGS 84
- Big axis: 6378137.0 meters
- Eccentricity: 0.081819191

Projection

- Type : UTM 30N
- Azimuth angle : 0.0 degrees
- Longitude 0 : -3.0 degrees
- Latitude 0 : 0.0 degrees
- X axis 0 : 500000.0 meters
- Y axis 0 : 0.0 meters
- Scale factor: 0.9996

DIGITAL TERRAIN MODEL

General view



Meanings of pixel values

Each image pixel stores the value of terrain elevation.

The value of elevation above sea level:

- Height = 0 meters - 0
- Unknown values - - 9999
- Z values unit - meters



Parameters of accuracy	Value
Resolution (cell size)	1 m
Absolute Planimetric accuracy (x, y)	1-3 m
Absolute Altimetric accuracy (z)	1-2 m

Sources:

Stereo pairs of Pleiades 1A satellite images with 0,5 m resolution. Vintage: 12.2019

VECTOR LAYERS

General view 2D (.mxd workspace for ArcMap)



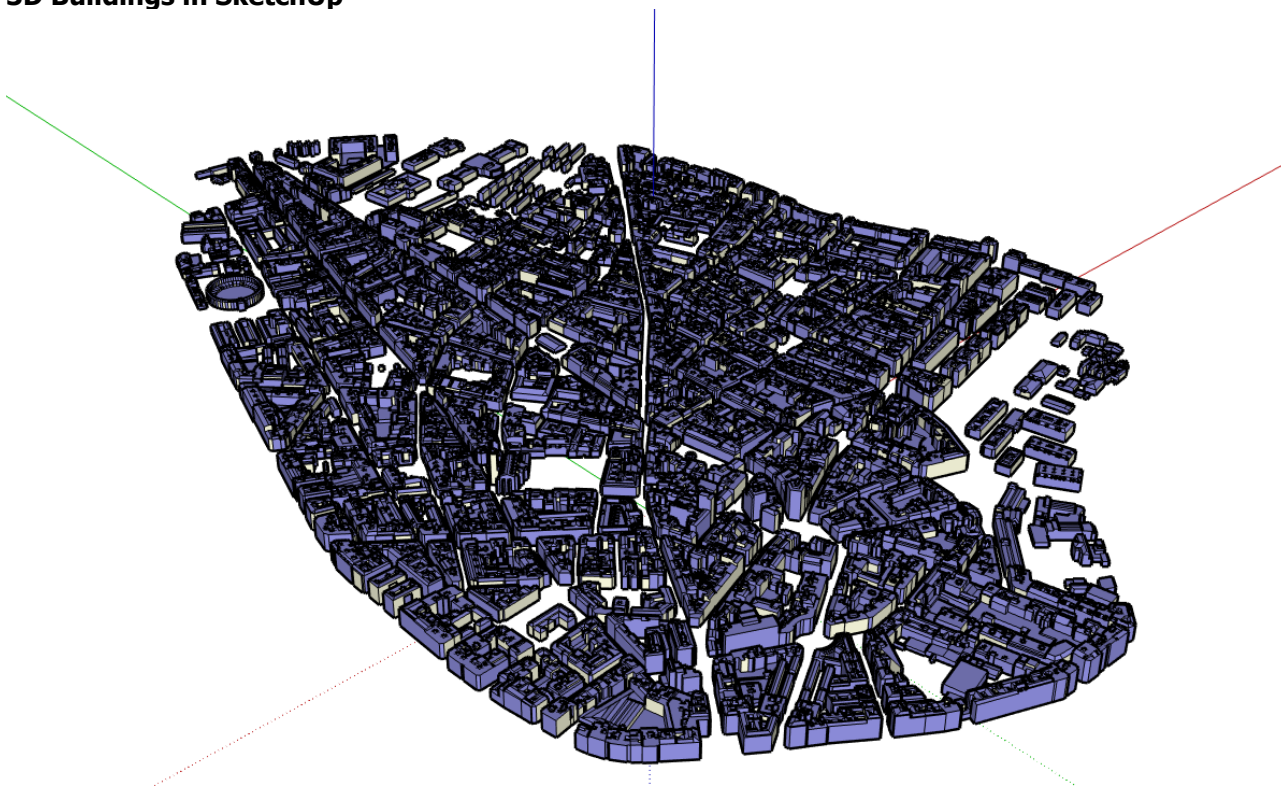


Partial view 3D (.mxd workspace for ArcMap including DEM)



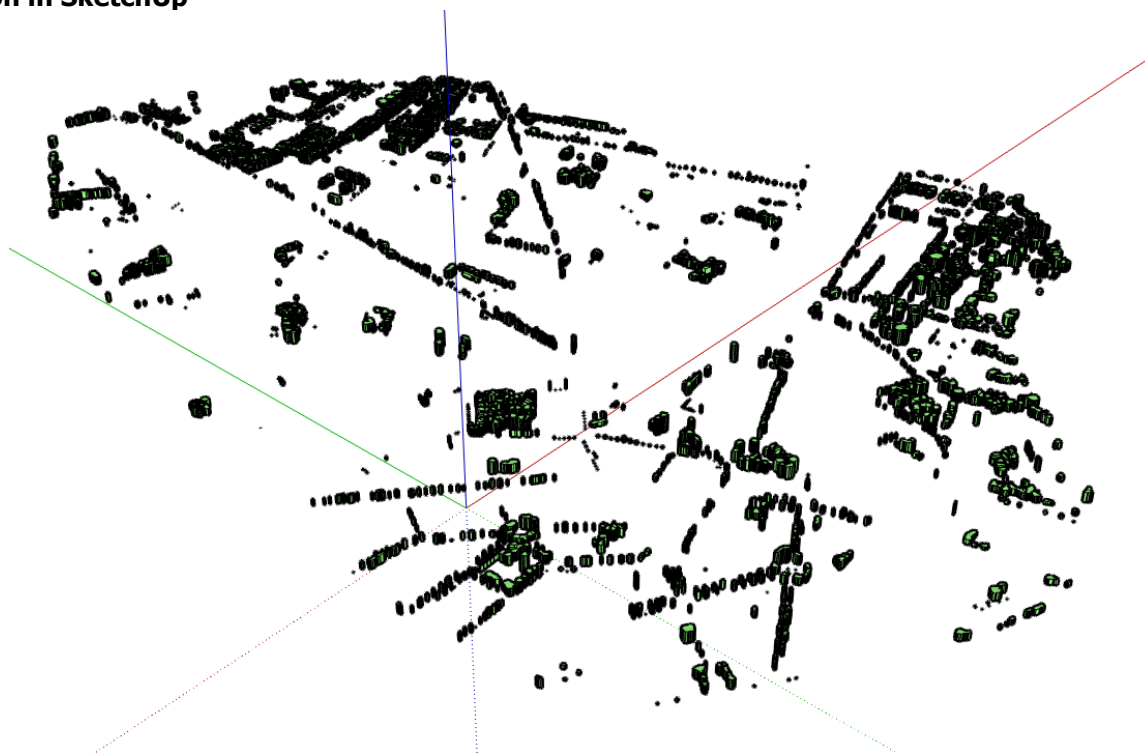
Partial view 3D (.skp preview in SketchUp format)

3D Buildings in SketchUp

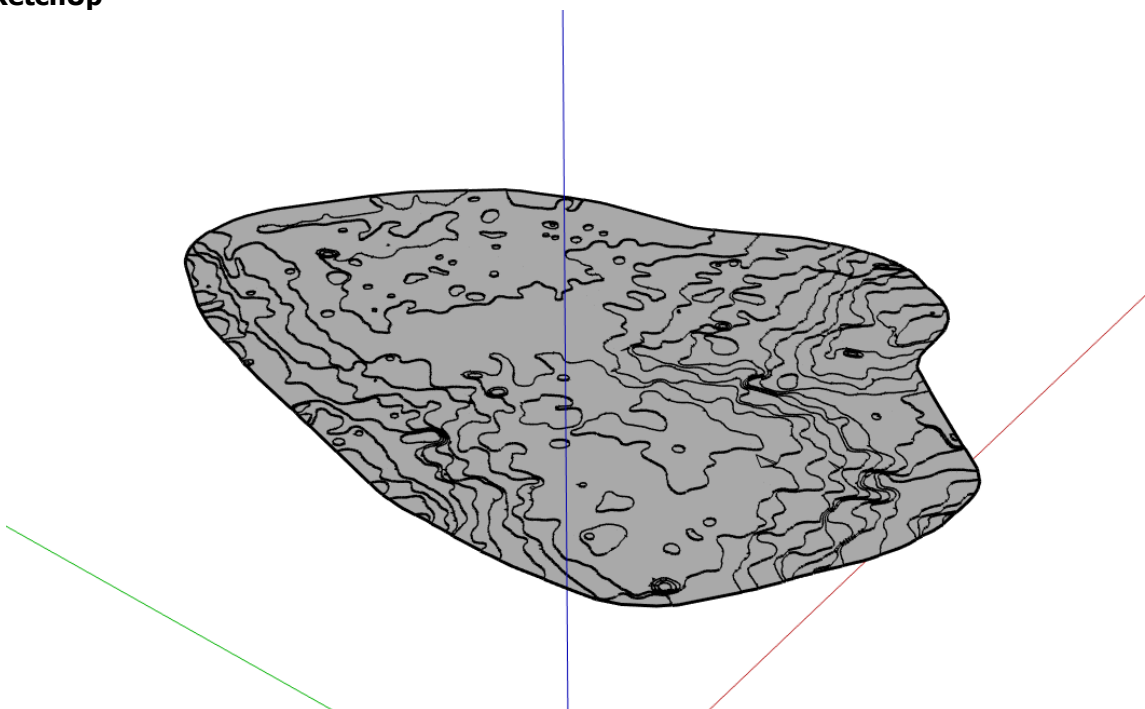




Vegetation in SketchUp



DEM in SketchUp





Parameters	Value
Absolute Altimetric Accuracy of DTM (Z)	1-2 m
Absolute Planimetric Accuracy (X, Y)	1-3 m
Building Heights Accuracy (H)	1-2 m
Minimal Mapping Unit for buildings	16 sq.m
Minimal Recognizable Building Height	3 m (sloped roofs are processed)
Vegetation	3 m (separate canopies and individual trees)
Minimal Mapping Unit for vegetation	16 sq.m (separate canopies and individual trees)
Minimal Recognizable Vegetation Height	3 m (separate canopies and individual trees)

Sources:

Stereo pairs of Pleiades 1A satellite images with 0,5 m resolution. Vintage: 12.2019

There are 2 vector classes in 3D Dataset:

Nº	Class Name	Class Description	Geometry type
1	Buildings	3D Buildings (sloped roof details are included)	polygon
2	Vegetation	Vegetation canopies and individual trees with heights attribute	polygon



OTHOIMAGERY

General view



Initial Source:	Pleiades 1A satellite images
Vintage:	12.2019
Resolution (m):	0,5 m
Planimetric accuracy (x, y):	± 3 m
Band Info:	Multispectral