

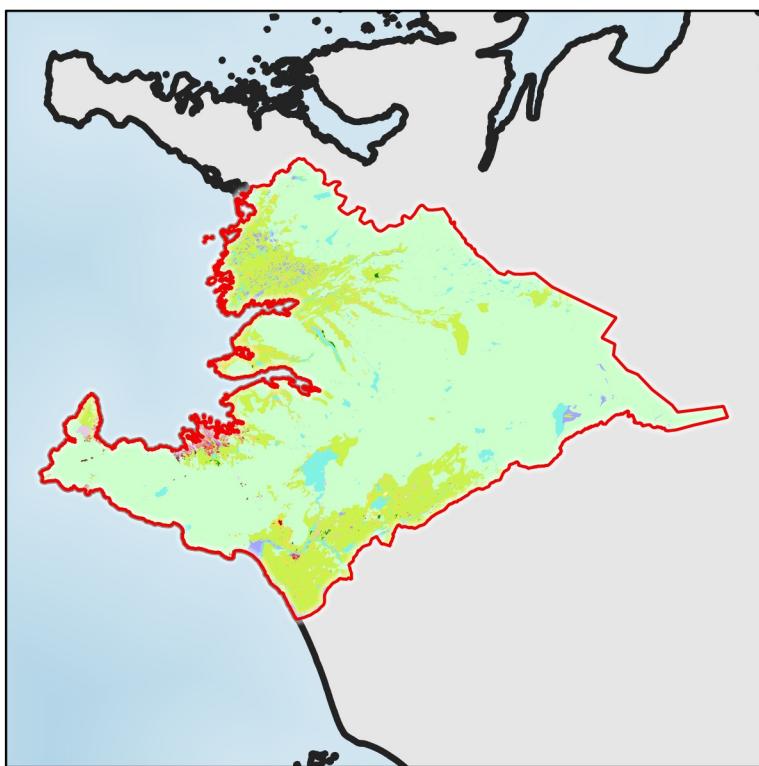
Urban Atlas 2018

LU/LC Product Delivery Report

IS001L1 - Reykjavík

Country	City	FUA Area (sqkm)
Iceland	Reykjavík	12968.22
Delivered files		
UA2018 and UA2012 Revised LU/LC layers in Geopackage format		
2012-2018 LU/LC change layer in Geopackage format		
INSPIRE-compliant metadata in XML format for all layers		
UA2018 LC/LU map		
Projection	Geographic Bounding Box (in WGS84)	
EPSG: 3035 ETRS89 / LAEA Europe	65.01° -22.75° UA2018 LC/LU map	-18.81° 63.77°

Nomenclature



- 11100: Continuous urban fabric (S.L.: > 80%)
- 11210: Discontinuous dense urban fabric (S.L.: 50% - 80%)
- 11220: Discontinuous medium density urban fabric (S.L.: 30% - 50%)
- 11230: Discontinuous low density urban fabric (S.L.: 10% - 30%)
- 11240: Discontinuous very low density urban fabric (S.L.: < 10%)
- 11300: Isolated structures
- 12100: Industrial, commercial, public, military and private units
- 12210: Fast transit roads and associated land
- 12220: Other roads and associated land
- 12230: Railways and associated land
- 12300: Port areas
- 12400: Airports
- 13100: Mineral extraction and dump sites
- 13300: Construction sites
- 13400: Land without current use
- 14100: Green urban areas
- 14200: Sports and leisure facilities
- 21000: Arable land (annual crops)
- 22000: Permanent crops
- 23000: Pastures
- 24000: Complex and mixed cultivation patterns
- 25000: Orchards at the fringe of urban classes
- 31000: Forests
- 32000: Herbaceous vegetation associations
- 33000: Open spaces with little or no vegetation
- 40000: Wetlands
- 50000: Water

Methodology

- 1.** Access and preparation of input Earth Observation satellite data, both VHR imagery 2018 and Sentinel-2, made available through ESA CSCDA mechanism.
- 2.** LU/LC change detection over the period 2012-2018 in non-artificial areas at level 1 of the nomenclature by means of supervised machine learning techniques for automatic classification based on Copernicus Sentinel-2 time series (2018).
- 3.** LU/LC change detection over the period 2012-2018 in artificial areas, and visual check, geometric refinement and thematic characterisation of changes in non-artificial areas by means of visual comparison of the reference core datasets of satellite imagery VHR2012 and VHR2018. In addition, the main ancillary data sources used are Google Earth and Wikimapia.
- 4.** Quality Assurance / Quality Check (QAQC) by means of automatic GIS triggers and tools, and visual interpretation.
- 5.** Thematic accuracy assessment based on stratified random sampling approach and reference dataset produced by IGNFI.

Production Team

2018 Image Analysis

Analyst name	Start Date	End Date
Nicolas Bacout	2019-12-19	2020-01-02

Internal Quality Control

Name	Date
Anthony Piron	2020-01-03

Quality Assessment

Name	Date
IGNFI	2020-02-21

Delivery Clearance

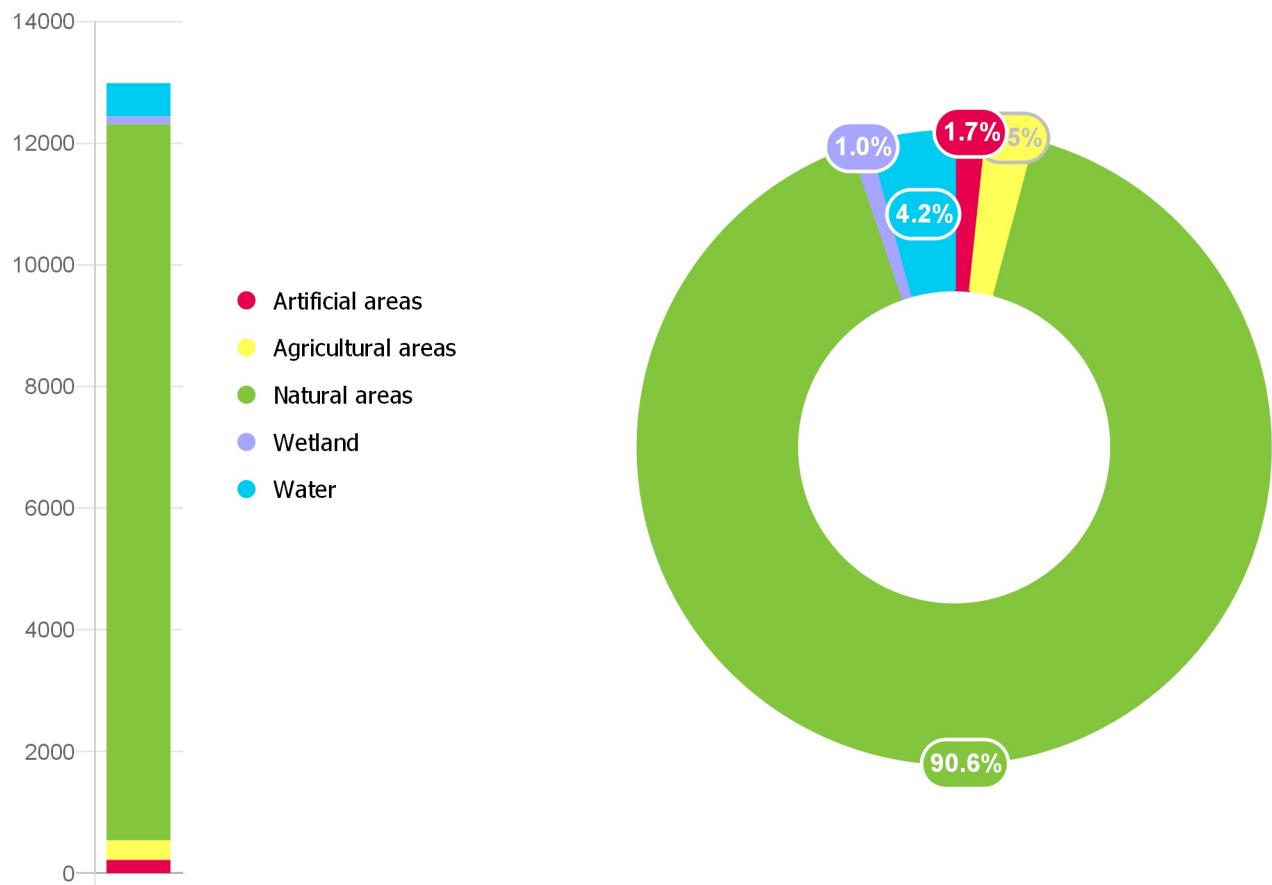
Date
2020-02-07

Thematic Accuracy Assessment - Results

	Overall accuracy	95% Confidence Interval
 Urban Classes	96.21%	1.2%
 Rural Classes	80.88%	2.5%
 Overall Area	79.31%	2.5%

Basic Statistics - LULC classification at level 1

IS001L1 Reykjavík
Urban Atlas 2018 LULC distribution (in sqkm)



IS001L1 Reykjavík
Main changes between Urban Atlas 2012 and Urban Atlas 2018 (in sqkm)

