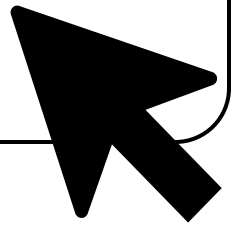


 copernicuslac-chile.eu



# Regional Center Copernicus for America Latin America and the Caribbean

Storage, processing and distribution of satellite data  
of the Program Copernicus

Image: Tabasco, Mexico >



Land cover and  
land use

Direct access >



Urban Atlas

Direct access >



Coastal  
monitoring

Direct access >



Sentinel image  
repository

Direct access >



Private cloud

Direct access >

## Upcoming events



Land cover and  
land use

Direct access >



Urban Atlas

Direct access >



Coastal  
monitoring

Direct access >



Sentinel image  
repository

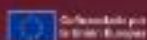
Direct access >



Private cloud

Direct access >

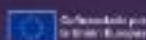
## Upcoming events



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Caracterización de



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la Unión Europea



Uso de InSAR en fallas



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de Parámetros



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# ter or America a and the

distribution of satellite data  
CUS

Our Services

Land cover and land use

Urban Atlas

Coastal moni

Private Cloud

Sentinel image repository

Image: Tabasco, Mexico >



Sentinel image

Private cloud

## Urban Atlas from Latin America and the Caribbean

To address the challenges facing cities in Latin America and the Caribbean (LAC), it is crucial to move towards polycentric urbanization models that ensure equitable access to services, employment, transport infrastructure and opportunities throughout the region.

In this context, the collection of geospatial data on land use in urban areas of Latin America and the Caribbean is essential. This data will reveal the location and prevalence of different land uses, facilitating urban planning and supporting the creation of sustainable cities.

[Go to the application](#)



Inicio » en » nuestros servicios » atlas urbano

### What is it?

A geospatial platform that represents urban land use in major cities in Latin America and the Caribbean, based on high-resolution satellite data and remote sensing models. It includes five classes: Buildings, Transportation Units, Urban Vegetation, Open Land, and Water Bodies.

### Objective

To offer a robust and highly useful Urban Atlas for local authorities, urban planners and other stakeholders interested in the sustainable development of cities in Latin America and the Caribbean.

### Methodology

Inspired by the European Copernicus Urban Atlas, this product was adapted to the context of the Latin American and Caribbean (LAC) region. It uses cloud-free Sentinel-2 (10 m) imagery and machine learning models, complemented by in-situ data and open-source information on urban infrastructure to generate a homogeneous and reliable multi-class classification. The proposed classes to be detected are:

|                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                             |                                                                                                                                                                                                                      |                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Built area</b><br>The class includes surfaces that have been altered by human activity. This includes areas with artificial structures and surfaces with natural vegetation present in urban amenities such as parks, plazas, and urban trees, as well as artificial vegetation primarily found in sports facilities. | <b>Residential area</b><br>This class corresponds to a predominantly residential use, regardless of its housing scheme. It includes central business districts (CBDs) provided there is partial residential use.            | <b>Industrial zone</b><br>Land that features buildings and/or artificial structures with non-residential use, i.e., industrial, commercial or related to transport and storage are dominant.                         | <b>Buildings</b><br>These are artificial structures with an unknown purpose; they can be isolated buildings and associated buildings.                         |
| <b>Structuring axes</b><br>In the case of transport units and associated land, land routes, service routes and land associated with airports, railways, ports, among others, are considered.                                                                                                                             | <b>Streets and railways</b><br>Main roads, highways, residential areas, and service areas are considered.                                                                                                                   | <b>Airports</b><br>The airport facilities are considered: runways, buildings and associated land.                                                                                                                    | <b>Open spaces</b><br>It corresponds to land mainly free of construction, and includes urban green areas as well as areas of agricultural and wild use.       |
| <b>Forest vegetation</b><br>Areas occupied by forests and wooded areas, with an extensive and dense vegetation pattern, present in urban areas.                                                                                                                                                                          | <b>Agriculture</b><br>Within urban areas, anthropogenic activity is recognized as being associated with crops, orchards and plantations that are extensive or in the presence of a significant layer of natural vegetation. | <b>Recreation</b><br>Sports and leisure facilities are considered to be synthetic grass fields, golf courses, racetracks, urban parks, zoos or green medians that meet the minimum mapping units, among others.      | <b>Other open spaces</b><br>It corresponds to land mainly free of construction, and includes urban green areas as well as areas of agricultural and wild use. |
| <b>Bare ground</b><br>The class represents potential building sites, established or unofficial dumps, or mining extraction sites near urban areas, but without a predominant presence of buildings.                                                                                                                      | <b>Mineral extraction</b><br>Consider all bodies of water and watercourses, natural (rivers, lakes, lagoons, wetlands) or artificial (reservoirs, pools, tailings ponds), that meet the minimum cartographic mapping unit.  | <b>Water bodies</b><br>Consider all bodies of water and watercourses, natural (rivers, lakes, lagoons, wetlands) or artificial (reservoirs, pools, tailings ponds), that meet the minimum cartographic mapping unit. |                                                                                                                                                               |

## Urban Atlas from Latin America and the Caribbean

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[Go to the application](#)



Inicio » en » nuestros servicios » atlas urbano

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|

# Urban Atlas

## of Latin America and the Caribbean

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[Go to the app](#)



Start > our services > Urban Atlas

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## Explorador de Atlas Urbano

Buscar por país o ciudad

☐ Coordenadas

### Leyenda

#### Área construida

- ☒ Zona residencial
- ☒ Zona industrial
- ☒ Edificaciones

#### Unidades de transporte

- ☒ Calles y ferrocarriles
- ☒ Aeropuerto

#### Espacios abiertos

- ☒ Vegetación boscosa
- ☒ Agricultura
- ☒ Recreación
- ☒ Otros espacios abiertos

#### Suelo desnudo

- ☒ Extracción de minerales
- ☒ Cuerpos de agua

Seleccionar Todas

Limpiar Selección

Buscar por país o ciudad

☐ Coordenadas

## Leyenda

### Área construida

- ↳ ☒ Zona residencial
- ↳ ☒ Zona industrial
- ↳ ☒ Edificaciones

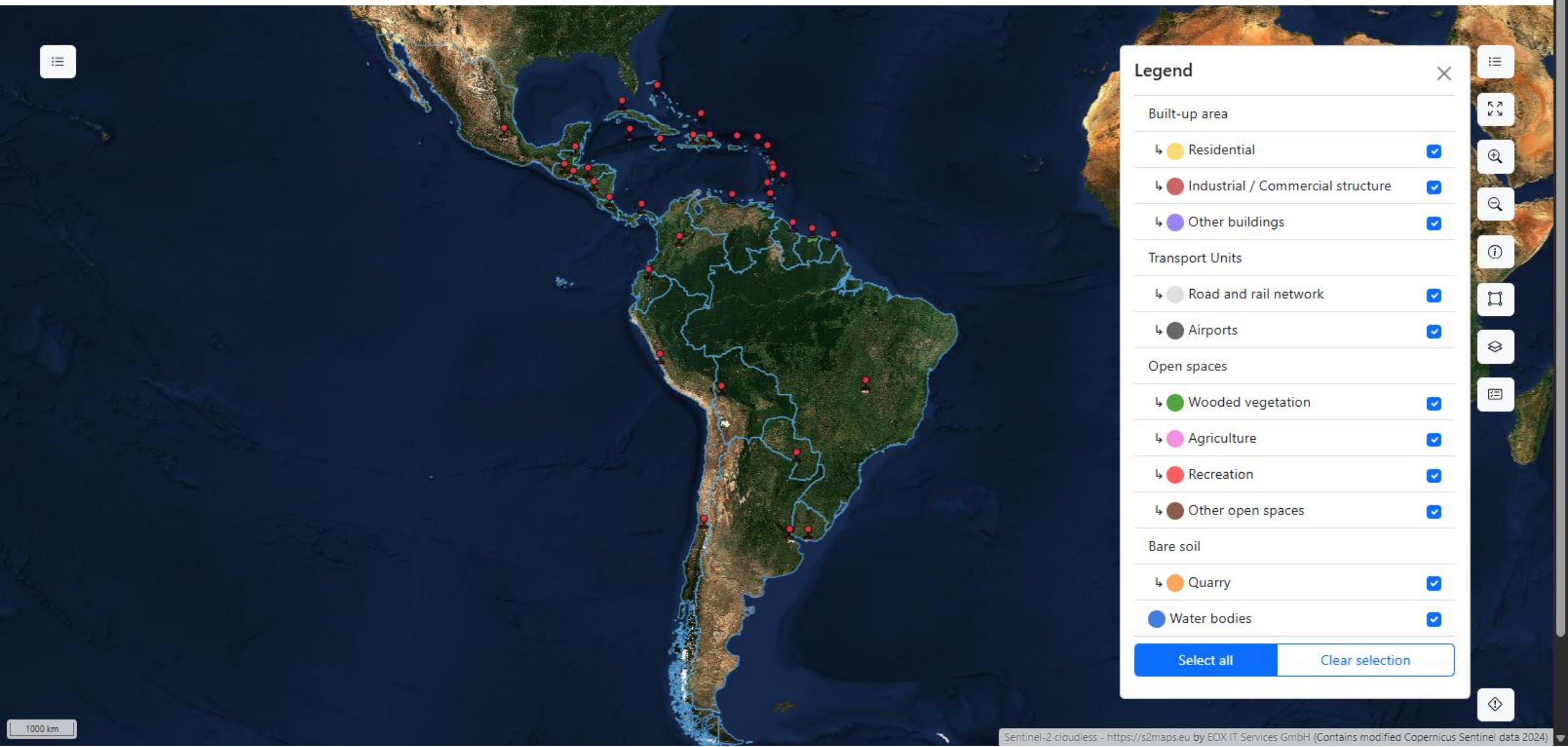
### Unidades de transporte

- ↳ ☒ Calles y ferrocarriles

# Urban Atlas Explorer

Search by country or city

☐ Coordinates



## Legend

### Built-up area

- ☒ Residential
- ☒ Industrial / Commercial structure
- ☒ Other buildings

### Transport Units

- ☒ Road and rail network
- ☒ Airports

### Open spaces

- ☒ Wooded vegetation
- ☒ Agriculture
- ☒ Recreation
- ☒ Other open spaces

### Bare soil

- ☒ Quarry
- ☒ Water bodies

Select all

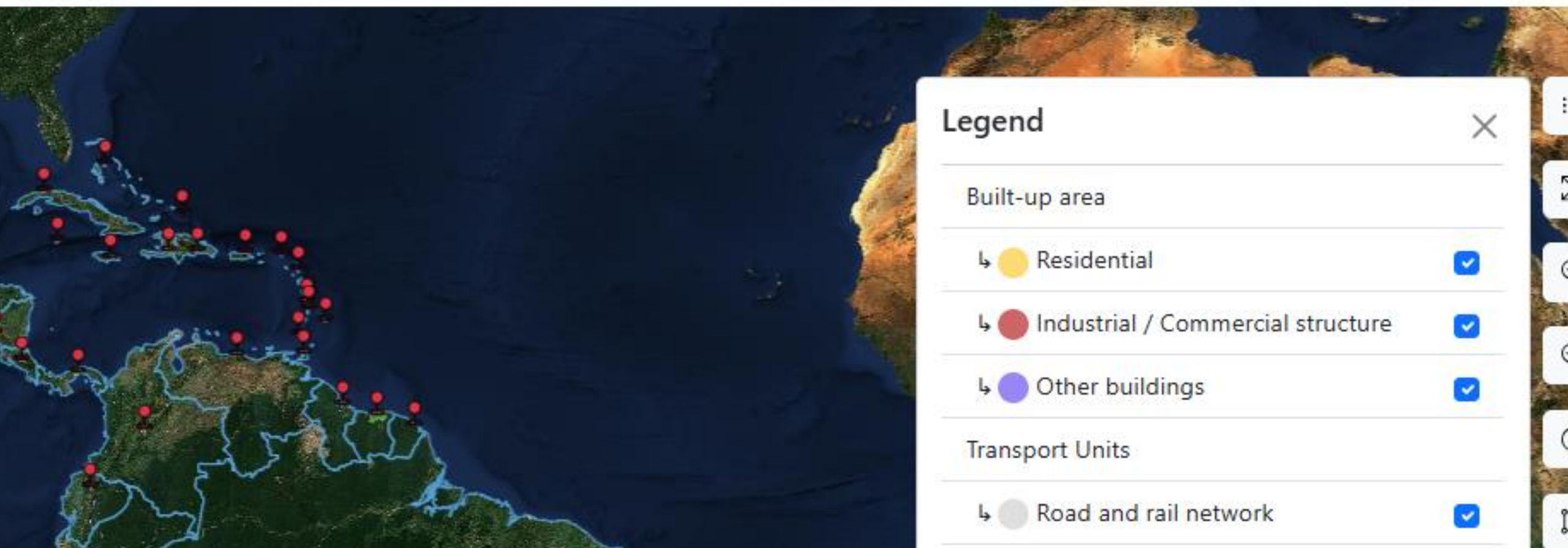
Clear selection



Search by country or city



Coordinates



## Legend



### Built-up area

-  Residential ☒
-  Industrial / Commercial structure ☒
-  Other buildings ☒

### Transport Units

-  Road and rail network ☒

Search by country or city



Coordinates

## Legend

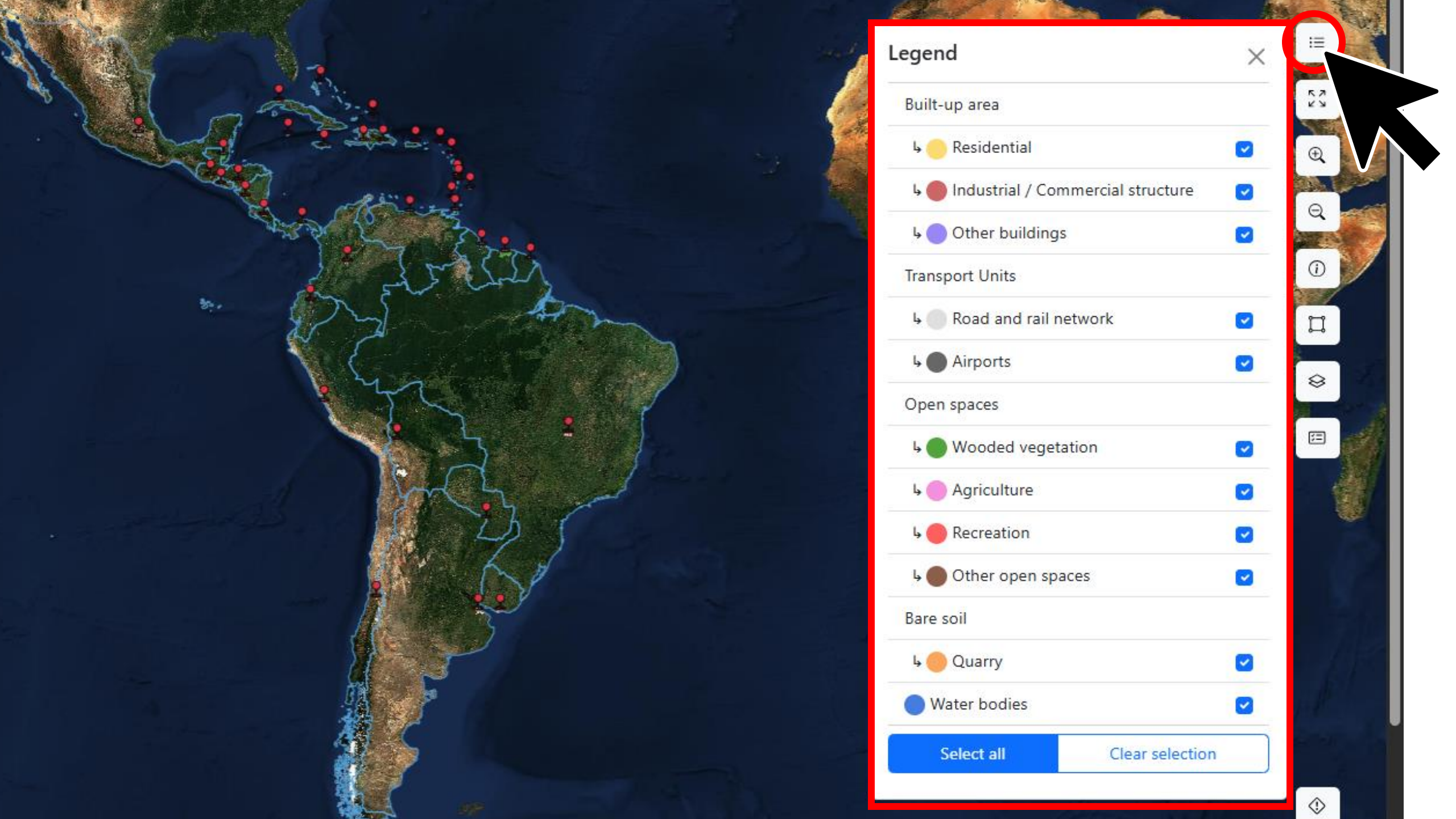


### Built-up area

-  Residential ☒
-  Industrial / Commercial structure ☒
-  Other buildings ☒

### Transport Units

-  Road and rail network ☒



Legend



Built-up area

- Residential ☒
- Industrial / Commercial structure ☒
- Other buildings ☒

Transport Units

- Road and rail network ☒
- Airports ☒

Open spaces

- Wooded vegetation ☒
- Agriculture ☒
- Recreation ☒
- Other open spaces ☒

Bare soil

- Quarry ☒
- Water bodies ☒

Select all

Clear selection





## Urban Atlas Explorer

Search by country or city



☐ Coordinates



1000 km

# Urban Atlas Explorer

Search by country or city

☐ Coordinates



## Products



Atlas Urbano 2024 (raster)



Atlas Urbano 2023 (raster)



Atlas Urbano 2022 (raster)



Atlas Urbano 2021 (raster)



Atlas Urbano 2020 (raster)



1000 km

# Urban Atlas Explorer

Search by country or city

☐ Coordinates

## Legend

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- ☒ Quarry
- ☒ Water bodies

Select all

Clear selection

[Urban Atlas Explorer](#) / [Login](#)

## Login

Log in with your email and password to gain access and download images from CopernicusLAC Chile.

Email address

Password

[Recover / verify your account](#)

or

[Sign up](#)

Sign In

Email address

myname@domain.com

Password

\*\*\*\*\*

[Recover / verify your account](#)

or

[Sign up](#)

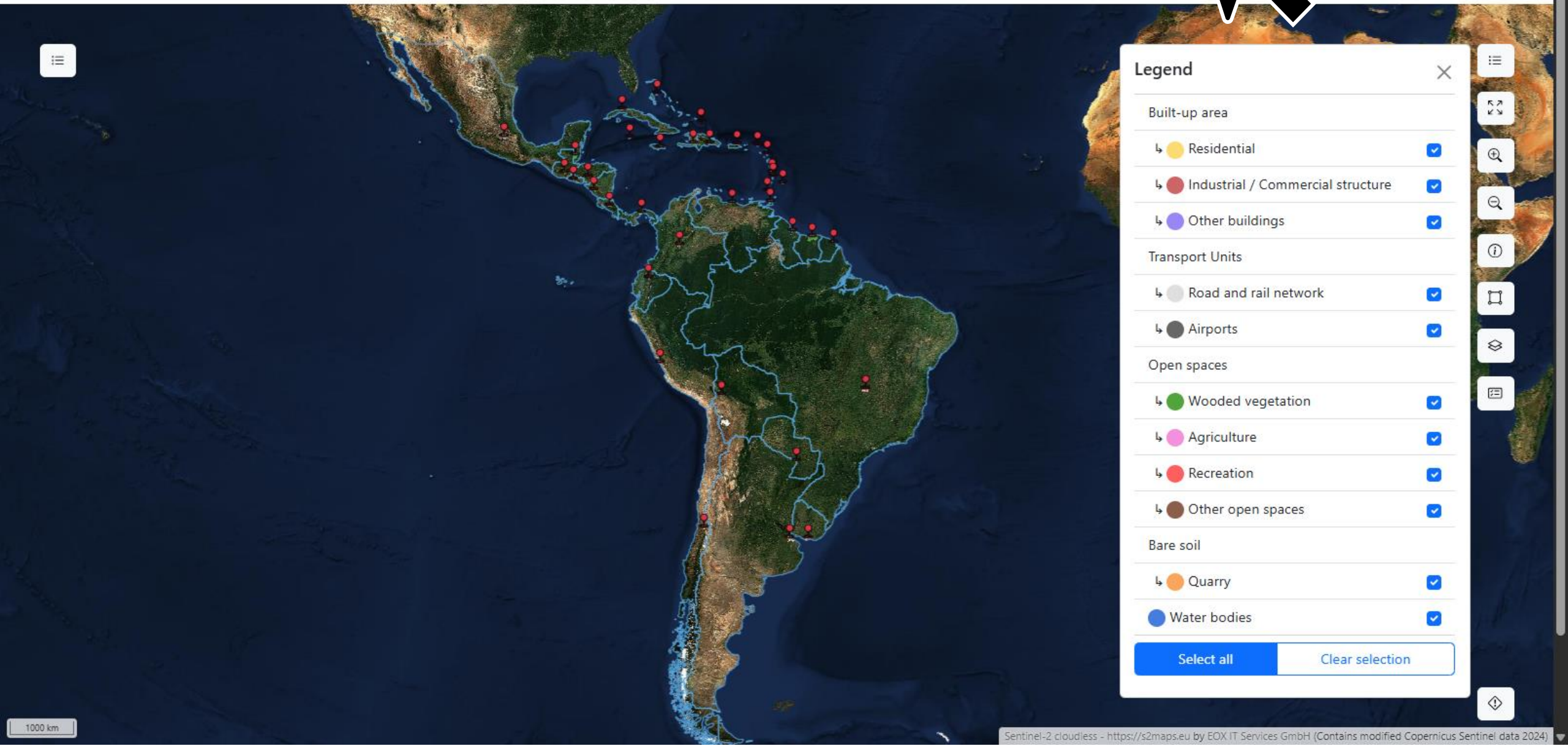
Sign In



# Urban Atlas Explorer

Search by country or city

Coordinates



## Legend

### Built-up area

- ↳ Residential ☒
- ↳ Industrial / Commercial structure ☒
- ↳ Other buildings ☒

### Transport Units

- ↳ Road and rail network ☒
- ↳ Airports ☒

### Open spaces

- ↳ Wooded vegetation ☒
- ↳ Agriculture ☒
- ↳ Recreation ☒
- ↳ Other open spaces ☒

### Bare soil

- ↳ Quarry ☒
- ↳ Water bodies ☒

Select all

Clear selection



## User registration

Fill in the required information to gain access and download images from CopernicusLAC Chile.

Email address

Email address



First name

First name

Last name

Last name

Gender

Gender



Year of birth

Country or territory

Country or territory



Language of preference

English



Occupation

Occupation



In which type of organisation you work in?

In which type of organisation you work in?



What is the name of the organization you work in?

What is the name of the organization you work in?

In which area of application will you use the Copernicus services and data?

In which area of application will you use the Copernicus



In which economic sector will you use the Copernicus services and data?

In which economic sector will you use the Copernicus se



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How did you hear about our services?



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Password



Retype password

Password



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Using the code or link sent to your email

# Urban Atlas Explorer

Search by country or city

Coordinates

## Legend

### Built-up area

- ↳ Residential ☒
- ↳ Industrial / Commercial structure ☒
- ↳ Other buildings ☒

### Transport Units

- ↳ Road and rail network ☒
- ↳ Airports ☒

### Open spaces

- ↳ Wooded vegetation ☒
- ↳ Agriculture ☒
- ↳ Recreation ☒
- ↳ Other open spaces ☒

### Bare soil

- ↳ Quarry ☒
- ↳ Water bodies ☒

Select all

Clear selection

## CITIES

Lima (Peru)

Medellín (Colombia)

Limeira (Brazil)

El Limón (Venezuela)

Colima (Mexico)

Limpio (Paraguay)

Nova Lima (Brazil)

## Transport Units

↳ ☐ Road and rail network↳ ☐ Airports

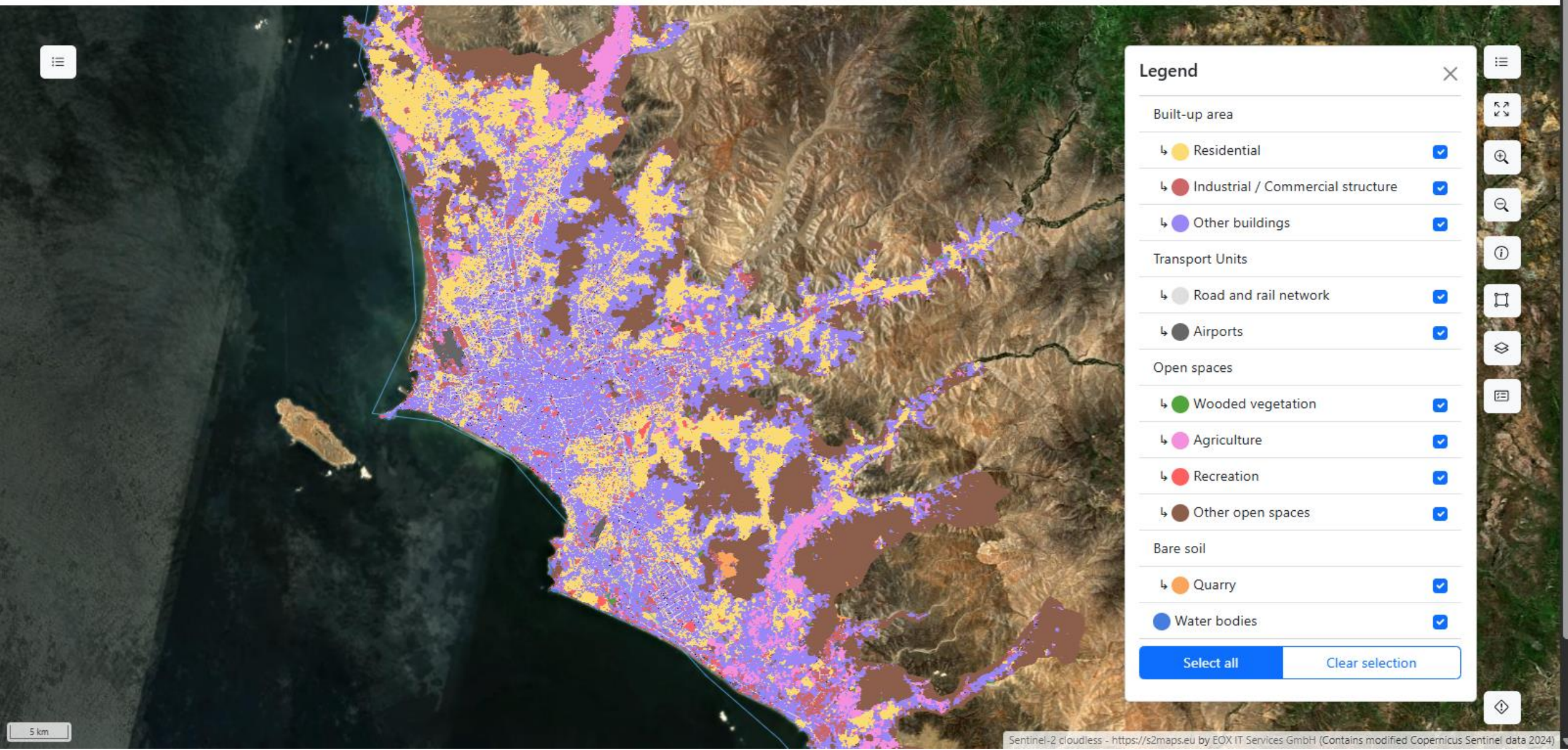
## Open spaces

↳ ☐ Wooded vegetation

# Urban Atlas Explorer

Lima (Peru)

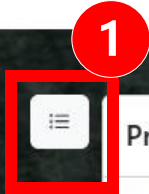
☐ Coordinates



# Urban Atlas Explorer

Lima (Peru)

☐ Coordinates



## Products

|                            |                                  |
|----------------------------|----------------------------------|
| Atlas Urbano 2024 (raster) | <input checked="" type="radio"/> |
| Atlas Urbano 2023 (raster) | <input type="radio"/>            |
| Atlas Urbano 2022 (raster) | <input type="radio"/>            |
| Atlas Urbano 2021 (raster) | <input type="radio"/>            |
| Atlas Urbano 2020 (raster) | <input type="radio"/>            |



5 km

# Urban Atlas Explorer

Lima (Peru)

☐ Coordinates



## Products

Atlas Urbano 2024 (raster)



Modify layer opacity

Atlas Urbano 2023 (raster)



Atlas Urbano 2022 (raster)



Atlas Urbano 2021 (raster)



Atlas Urbano 2020 (raster)



5 km

## Urban Atlas Explorer

Lima (Peru)

☐ Coordinates

## Products

Atlas Urbano 2024 (raster)



Modify layer opacity

Atlas Urbano 2023 (raster)



Atlas Urbano 2022 (raster)



Atlas Urbano 2021 (raster)



Atlas Urbano 2020 (raster)



# Urban Atlas Explorer

Lima (Peru)

Coordinates



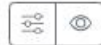
## Products

Atlas Urbano 2024 (raster)



Modify layer opacity

Atlas Urbano 2023 (raster)



Atlas Urbano 2022 (raster)



Atlas Urbano 2021 (raster)



Atlas Urbano 2020 (raster)



Modify layer opacity

## Legend

Built-up area

↳ Residential ☒

↳ Industrial / Commercial structure ☒

↳ Other buildings ☒

Transport Units

↳ Road and rail network ☒

↳ Airports ☒

Open spaces

↳ Wooded vegetation ☒

↳ Agriculture ☒

↳ Recreation ☒

↳ Other open spaces ☒

Bare soil

↳ Quarry ☒

↳ Water bodies ☒

Select a

Clear selection



2

1

5 km

# Urban Atlas Explorer

Lima (Peru)

☐ Coordinates

## Legend

### Built-up area

- ☒ Residential
- ☐ Industrial / Commercial structures
- ☐ Other buildings

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- ☐ Airports

### Open spaces

- ☐ Wooded vegetation
- ☐ Agriculture
- ☒ Recreation
- ☐ Other open spaces

### Bare soil

- ☐ Quarry
- ☐ Water bodies

Select all

Clear selection

# Urban Atlas Explorer

Lima (Peru)

x | v

☐ Coordinates



Cancel drawing



## Observations:

- Downloads in .tif format cannot exceed 10° in latitude or longitude

5 km



Cancel drawing

Observations:  
Downloads in .tif format cannot exceed 10° in latitude or longitude

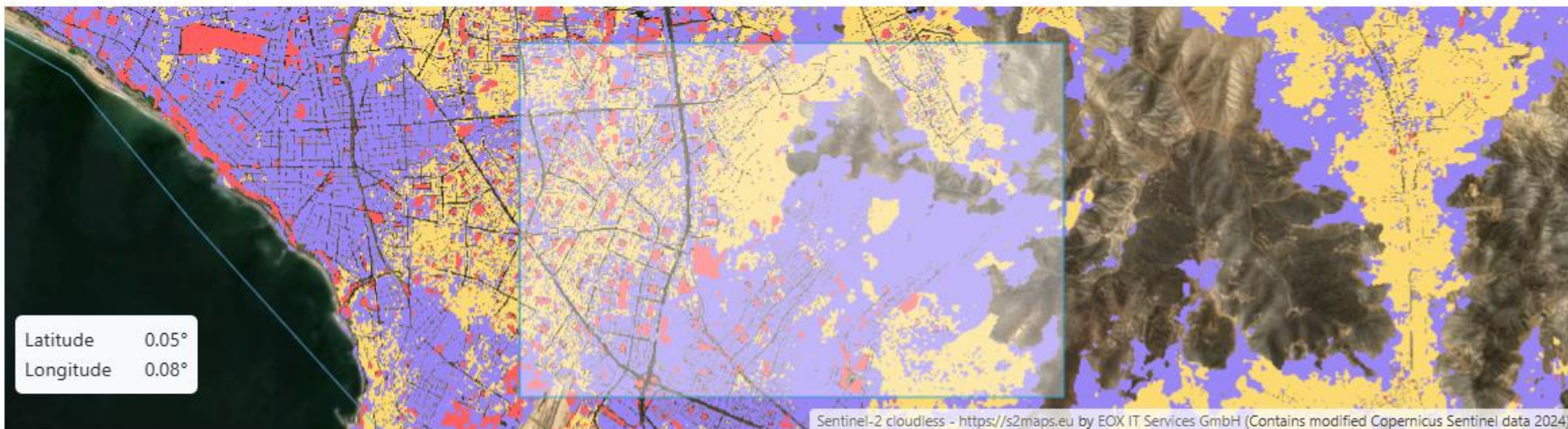
# Urban Atlas Explorer

Lima (Peru)

☐ Coordinates

## Image download options

Selected rectangle:



Latitude 0.05°  
Longitude 0.08°

Sentinel-2 cloudless - <https://s2maps.eu> by EOX IT Services GmbH (Contains modified Copernicus Sentinel data 2024)

↓ Create GeoTIFF

↓ Download Shapefile

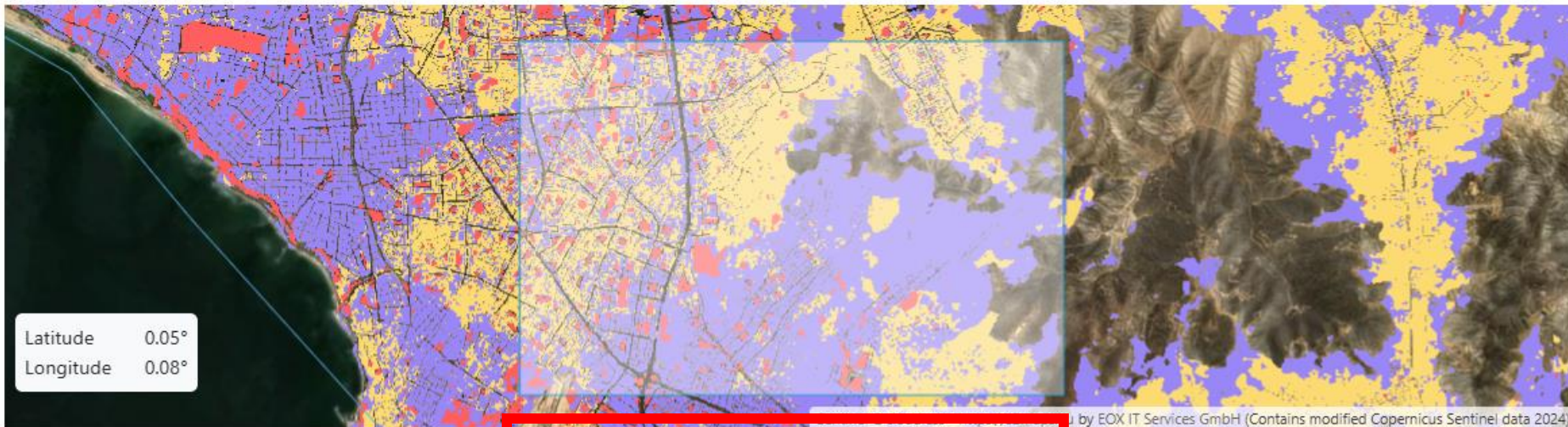
# Urban Atlas Explorer

Lima (Peru)

☐ Coordinates

## Image download options

Selected rectangle:



↓ Create GeoTIFF

↓ Download Shapefile



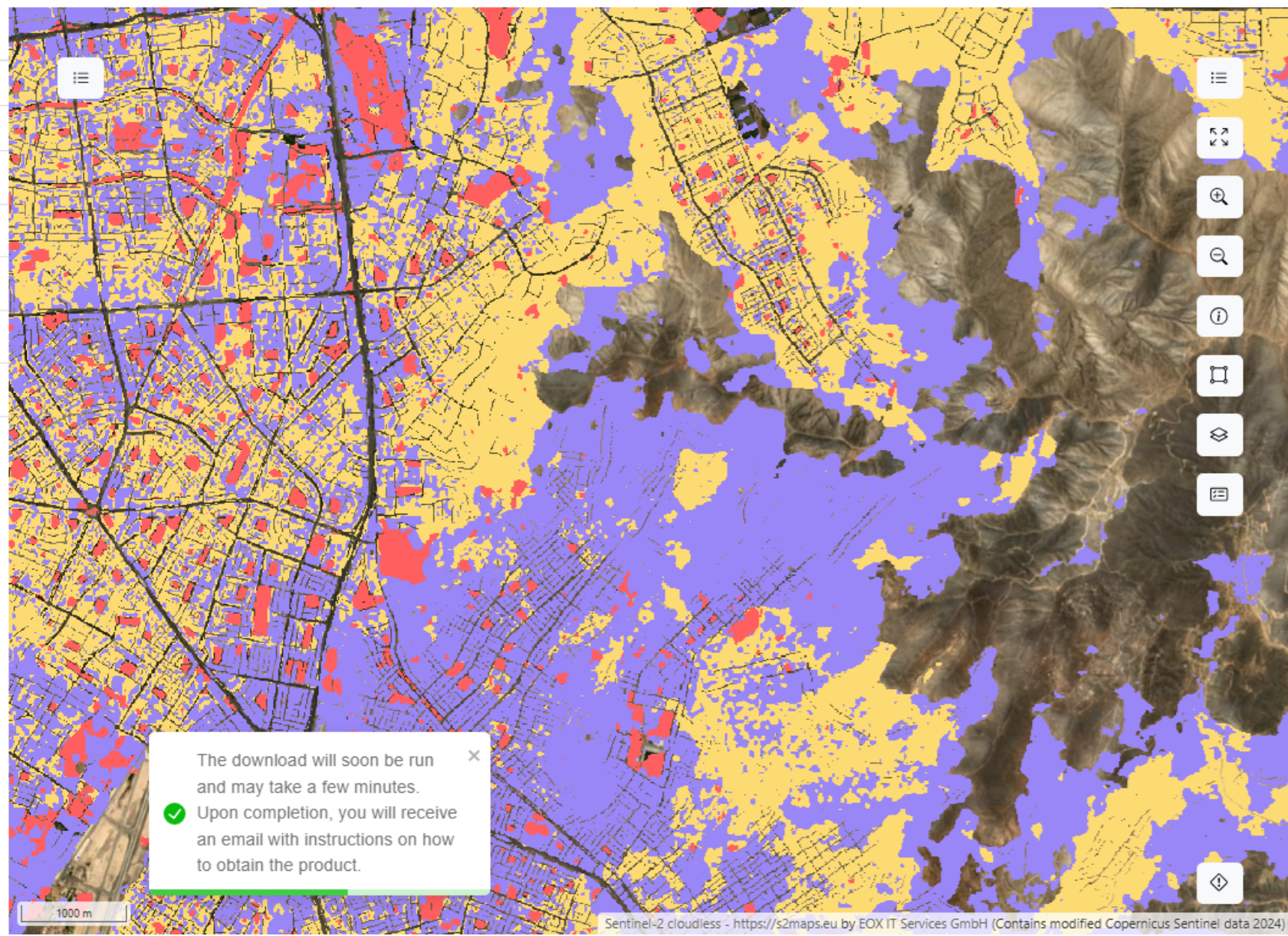
## Urban Atlas Explorer

Lima (Peru)

☐ Coordinates

### Download history

| N° | Date               | Status    | Product   |                                  |
|----|--------------------|-----------|-----------|----------------------------------|
| 01 | 27 May 2026, 15:26 | Pending   | 2024      |                                  |
| 02 | 27 May 2026, 07:48 | Completed | 2024      | <a href="#">Download</a> 15.7 kB |
| 03 | 27 May 2026, 07:41 | Completed | 2024      | <a href="#">Download</a> 18.5 kB |
| 04 | 25 May 2026, 08:53 | Completed | 2020 2024 | <a href="#">Download</a> 43.2 MB |
| 05 | 25 May 2026, 08:53 | Completed | 2020 2024 | <a href="#">Download</a> 4.2 MB  |
| 06 | 8 Apr 2026, 16:41  | Completed | 2024      | <a href="#">Download</a> 2.1 kB  |



The download will soon be run and may take a few minutes.  
 Upon completion, you will receive an email with instructions on how to obtain the product.

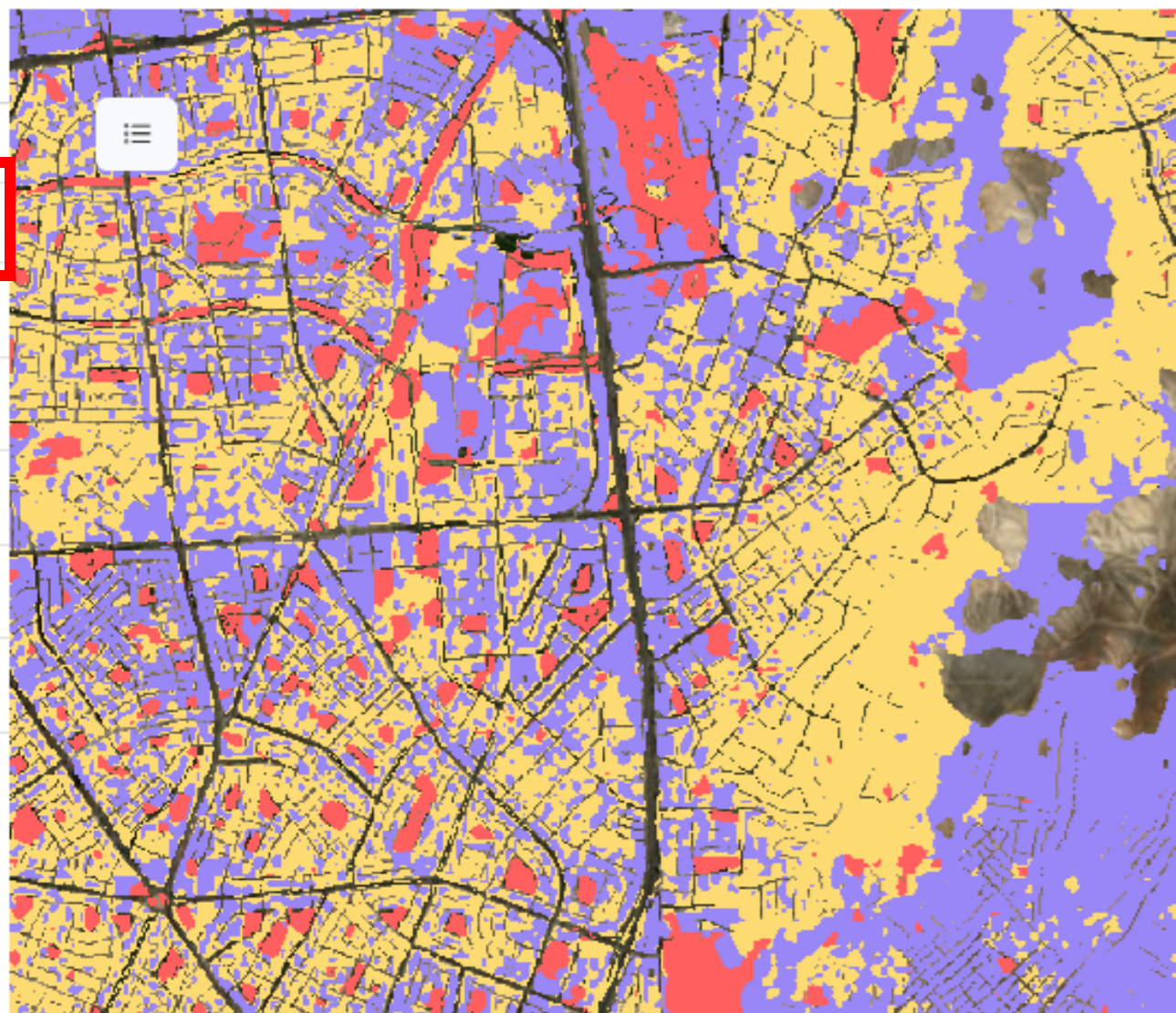
## Urban Atlas Explorer

Lima (Peru)

## Download history



| N° | Date               | Status    | Product   |                                                                                       |         |
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| 01 | 27 May 2026, 15:26 | Pending   | 2024      |                                                                                       |         |
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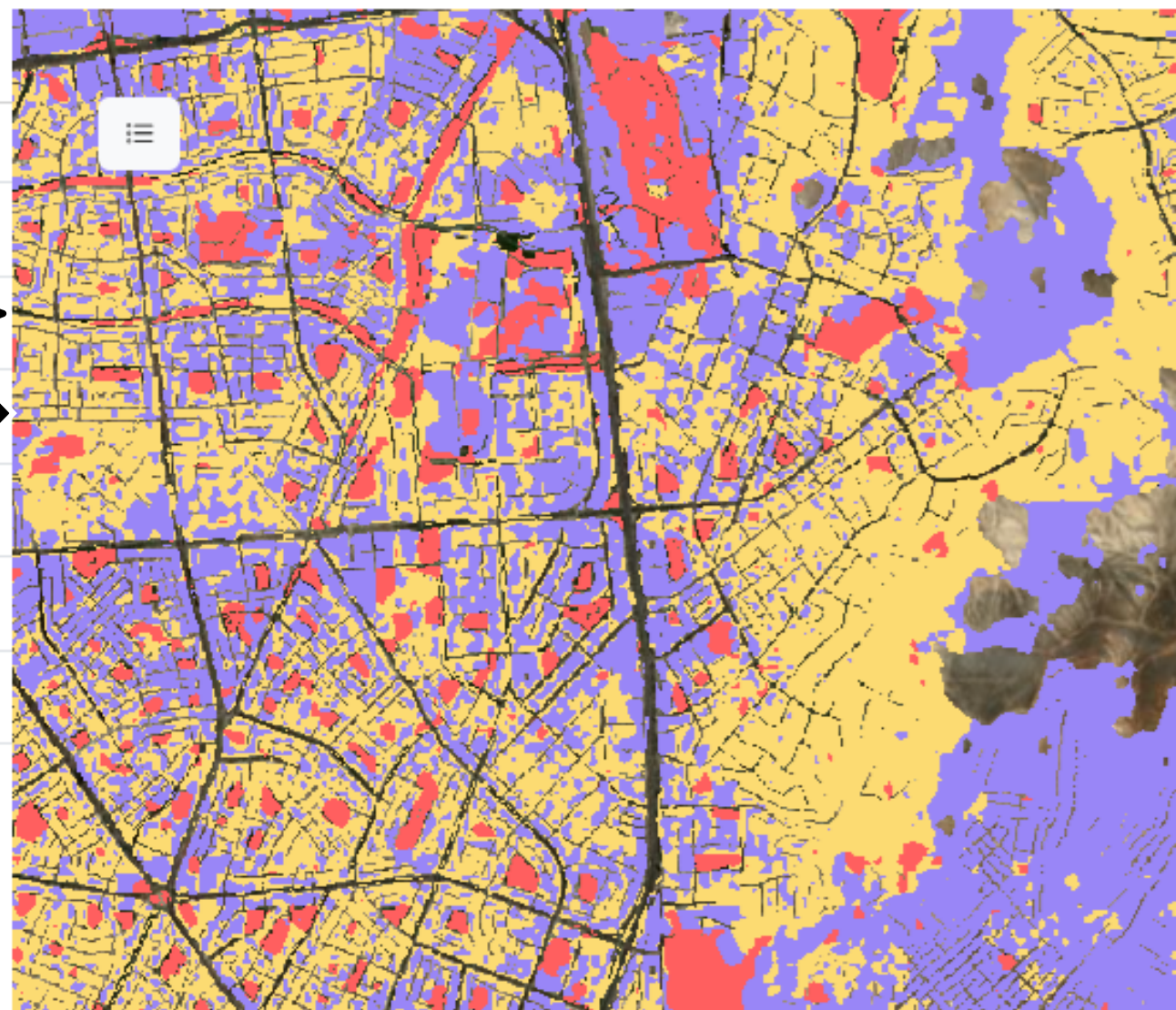


## Urban Atlas Explorer

Lima (Peru)

### Download history

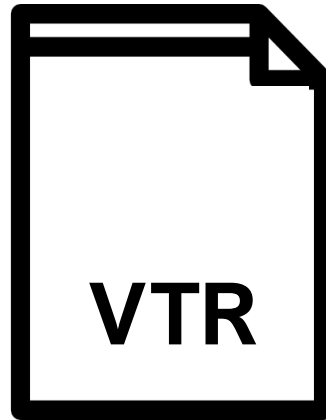
| N° | Date               | Status    | Product   |                                                                                       |         |
|----|--------------------|-----------|-----------|---------------------------------------------------------------------------------------|---------|
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| 02 | 27 May 2026, 07:48 | Completed | 2024      |    |         |
| 03 | 27 May 2026, 07:41 | Completed | 2024      |    | 1.5 kB  |
| 04 | 25 May 2026, 08:53 | Completed | 2020 2024 |    | 43.2 MB |
| 05 | 25 May 2026, 08:53 | Completed | 2020 2024 |   | 4.2 MB  |
| 06 | 8 Apr 2026, 16:41  | Completed | 2024      |  | 2.1 kB  |



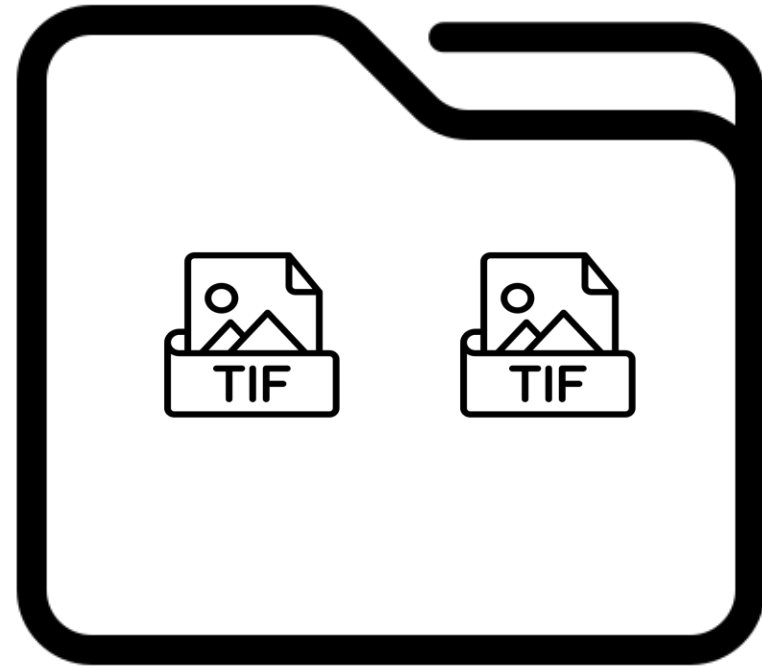
# GeoTIFF



legend.csv



mosaic.vrt



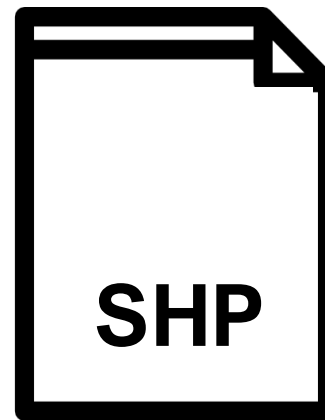
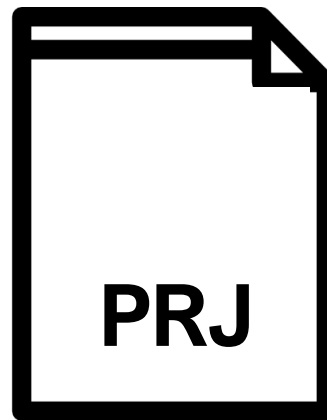
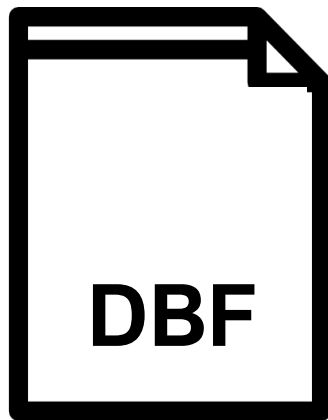
img



# Shapefile



legend.csv





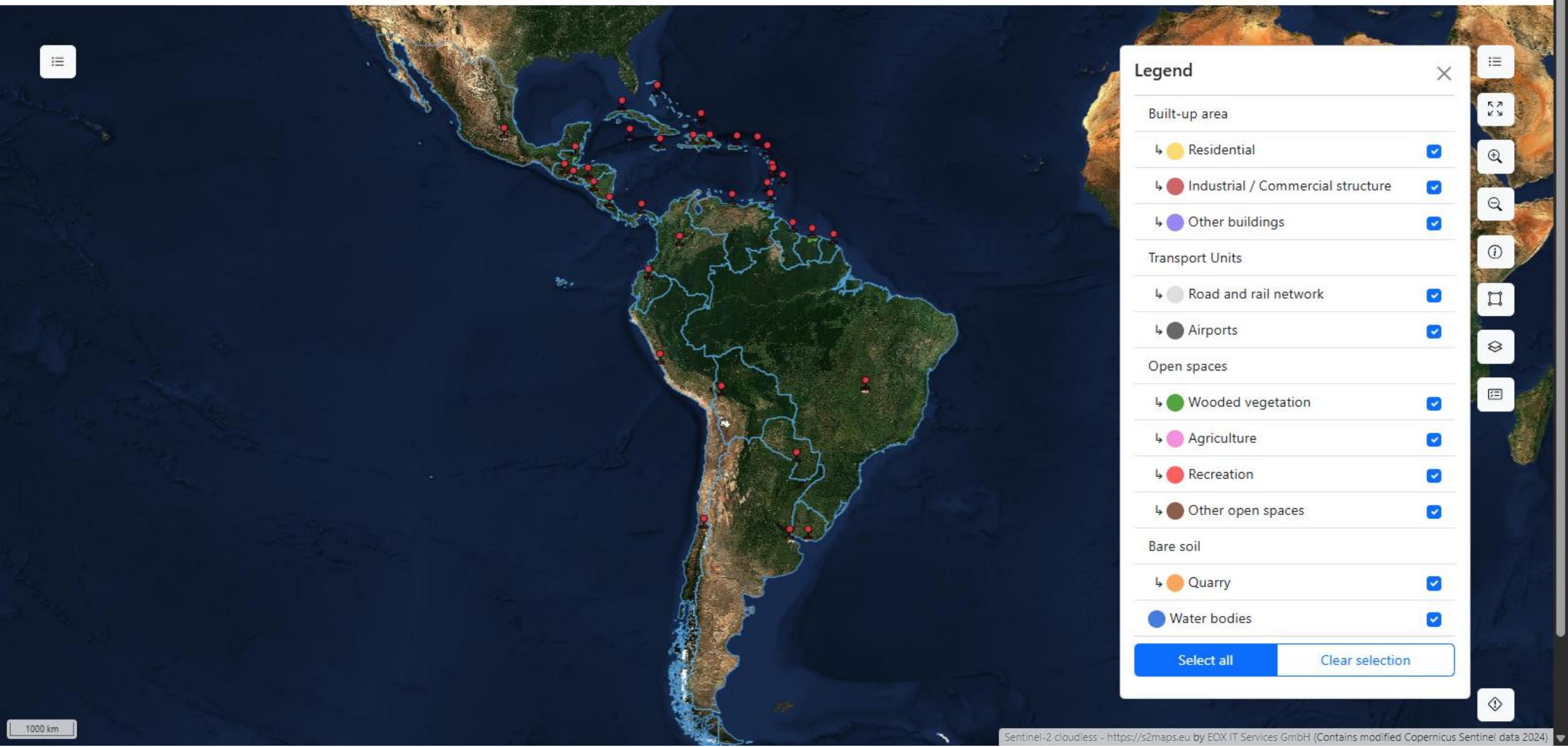
legend.csv

| Value | Name (ES)                | Name (PT)                   | Name (EN)                         |
|-------|--------------------------|-----------------------------|-----------------------------------|
| 4096  | Superficies artificiales | Superfícies artificiais     | Artificial surface                |
| 4352  | Área construida          | Área construída             | Built-up area                     |
| 4368  | Zona residencial         | Zona residencial            | Residential                       |
| 4384  | Zona industrial          | Zona industrial / comercial | Industrial / Commercial structure |
| 4400  | Edificaciones            | Outras edificações          | Other buildings                   |
| 4608  | Unidades de transporte   | Unidades de transporte      | Transport Units                   |
| 4624  | Calles y ferrocarriles   | Rede viária e ferroviária   | Road and rail network             |
| 4640  | Aeropuerto               | Aeroportos                  | Airports                          |
| 36864 | Suelo desnudo            | Solo nu                     | Bare soil                         |
| 36880 | Extracción de minerales  | Extração mineral            | Quarry                            |
| 5120  | Espacios abiertos        | Espaços abertos             | Open spaces                       |
| 5136  | Vegetación boscosa       | Vegetação arbórea           | Wooded vegetation                 |
| 5152  | Agricultura              | Agricultura                 | Agriculture                       |
| 5168  | Recreación               | Áreas recreativas           | Recreation                        |
| 5184  | Otros espacios abiertos  | Outros espaços abertos      | Other open spaces                 |
| 45056 | Cuerpos de agua          | Corpos de agua              | Water bodies                      |

# Urban Atlas Explorer

Search by country or city

☐ Coordinates



## Legend

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- ☒ Residential
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- ☒ Other buildings

### Transport Units

- ☒ Road and rail network
- ☒ Airports

### Open spaces

- ☒ Wooded vegetation
- ☒ Agriculture
- ☒ Recreation
- ☒ Other open spaces

### Bare soil

- ☒ Quarry
- ☒ Water bodies

Select all

Clear selection

