



## HRL Imperviousness

The High Resolution Layer Imperviousness product maps the spatial distribution and dynamics of artificially sealed and built-up areas across Europe. It includes two main datasets: Imperviousness Density, which gives a percentage of sealed surfaces per pixel, and its binary sub-class Impervious Built-Up. Density and classified change datasets as well as aggregated layers, such as Share of Built-Up, are available for both main datasets.

The product has an update cycle of three years. It is available from the 2006 reference year onwards for the Imperviousness Density datasets and from the 2018 reference year onwards for the Impervious Built-Up datasets.

High Resolution Layer Imperviousness product is part of the European Union's Copernicus Land Monitoring Service.

## Simple

### Identification info

<b>Date (Publication)</b>	2026-05-01
<b>Citation identifier</b>	copernicus_hrl-imperviousness_s
<b>Citation identifier</b>	DAT-14-en
<b>Spatial representation type</b>	Grid
<b>Topic category</b>	<ul style="list-style-type: none"><li>• Environment</li><li>• Imagery base maps earth cover</li></ul>

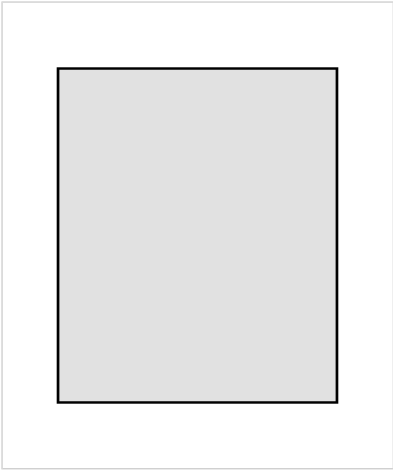
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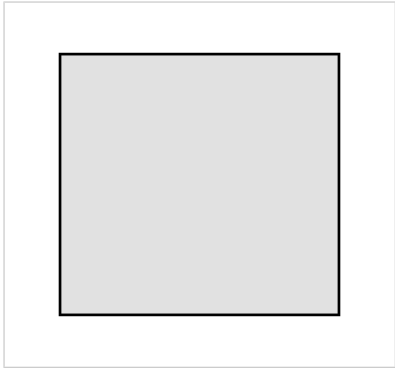


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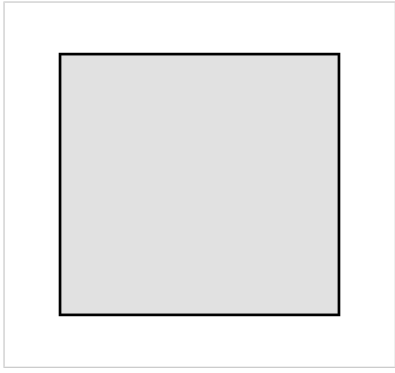


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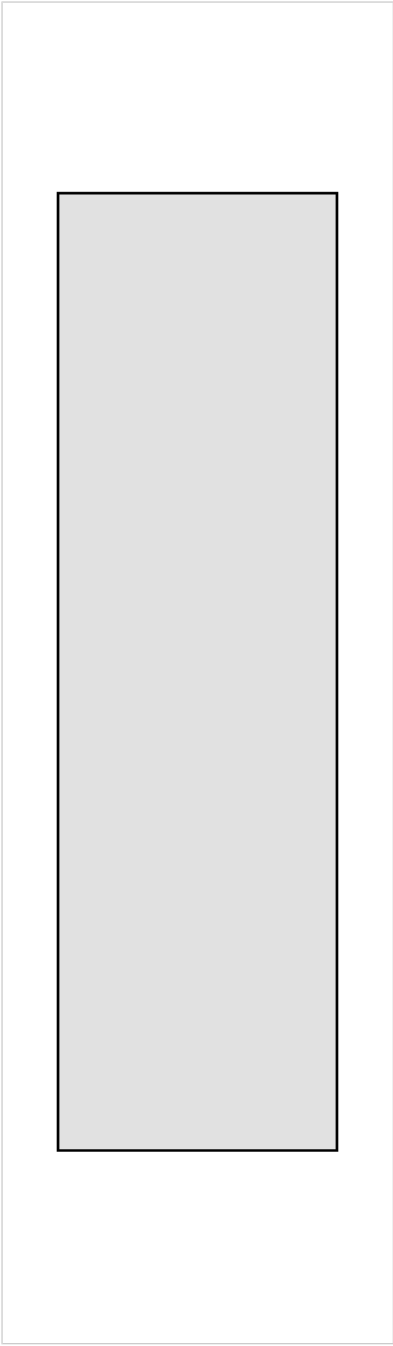


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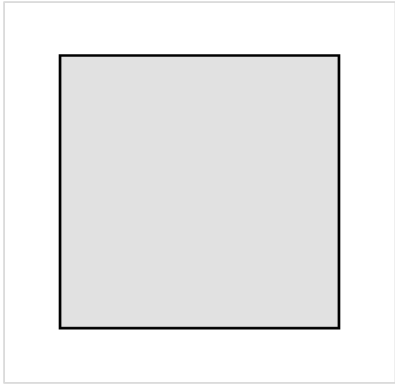


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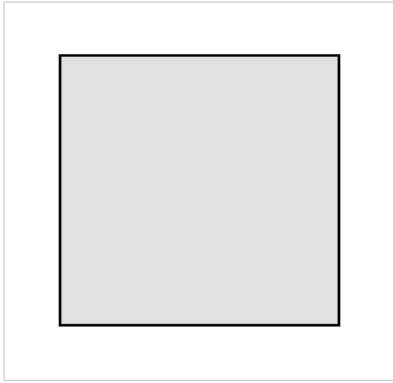


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**Temporal extent**

Time period | 2005-01-01 2007-12-31

**Temporal extent**

Time period | 2006-01-01 2009-12-31

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Time period | 2006-01-01 2012-12-31

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Time period | 2018-01-01 2021-12-31

## Temporal extent

Time period | 2021-01-01 2021-12-31

## Temporal extent

Time period | 2021-01-01 2024-12-31

## Temporal extent

Time period | 2024-01-01 2024-12-31

Continents, countries, sea regions of the world.

- United Kingdom
- EEA38 (from 2020)
- EEA39
- [EEA38 \(from 2020\)](#)
- [United Kingdom](#)

EEA Management Plan

- 2018 3.6.1
- [2018 3.6.1](#)

EEA topics

- Buildings and construction
- Land use
- Soil
- [Buildings and construction](#)
- [Soil](#)
- [Land use](#)

GEMET

- built-up area
- urban area
- soil surface sealing
- sealing
- built environment
- land use
- land cover
- landscape alteration
- [land cover](#)
- [urban area](#)
- [sealing](#)
- [soil surface sealing](#)
- [built-up area](#)
- [land use](#)
- [built environment](#)
- [landscape alteration](#)

GEMET - INSPIRE themes, version 1.0

- Land cover
- Land use
- [Land cover](#)
- [Land use](#)

[Spatial scope](#)

- [European](#)

## Associated resource

Association Type | Is composed of

Metadata Reference | [Imperviousness Density Change 2015-2018 \(raster 20 m\), Europe, 3-yearly, Aug. 2020](#)

## Associated resource

Association Type	Is composed of
Metadata Reference	<ul style="list-style-type: none"><li><a href="#">Imperviousness Density Change 2015-2018 (raster 100 m), Europe, 3-yearly, Aug. 2020</a></li></ul>

### Associated resource

Association Type	Is composed of
Metadata Reference	<ul style="list-style-type: none"><li><a href="#">Imperviousness Density Change 2009-2012 (raster 20 m), Europe, 3-yearly, Apr. 2018</a></li></ul>

### Associated resource

Association Type	Is composed of
Metadata Reference	<ul style="list-style-type: none"><li><a href="#">Imperviousness Density Change 2006-2012 (raster 100 m), Europe, Apr. 2018</a></li></ul>

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Association Type	Is composed of
Metadata Reference	<ul style="list-style-type: none"><li><a href="#">Imperviousness Classified Change 2006-2012 (raster 20 m), Europe, Apr. 2018</a></li></ul>

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Association Type	Is composed of
Metadata Reference	<ul style="list-style-type: none"><li><a href="#">Imperviousness Density 2018 (raster 10 m), Europe, 3-yearly, Aug. 2020</a></li></ul>

### Associated resource

Association Type	Is composed of
Metadata Reference	<ul style="list-style-type: none"><li><a href="#">Imperviousness Density 2018 (raster 100 m), Europe, 3-yearly, Aug. 2020</a></li></ul>

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Association Type	Is composed of
Metadata Reference	<ul style="list-style-type: none"><li><a href="#">Imperviousness Density 2015 (raster 100 m), Europe, 3-yearly, Mar. 2018</a></li></ul>

### Associated resource

Association Type	Is composed of
Metadata Reference	<ul style="list-style-type: none"><li><a href="#">Imperviousness Classified Change 2009-2012 (raster 20 m), Europe, 3-yearly, Apr. 2018</a></li></ul>

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Association Type	Is composed of
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<b>Associated resource</b>	
Association Type	Is composed of
Metadata Reference	<ul style="list-style-type: none"> <li>• <a href="#">Impervious Built-Up 2018 (raster 10 m), Europe, 3-yearly, Aug. 2020</a></li> </ul>
<b>Associated resource</b>	
Association Type	Is composed of
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<b>Associated resource</b>	
Association Type	Is composed of
Metadata Reference	<ul style="list-style-type: none"> <li>• <a href="#">Share of Built-Up 2018 (raster 100 m), Europe, 3-yearly, Aug. 2020</a></li> </ul>
<b>Associated resource</b>	
Association Type	Is composed of
Metadata Reference	<ul style="list-style-type: none"> <li>• <a href="#">Share of Built-Up Change Classified 2018-2021 (raster 100 m), Europe, 3-yearly, May 2025</a></li> </ul>
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Association Type	Is composed of
Metadata Reference	<ul style="list-style-type: none"> <li>• <a href="#">Share of Built-Up Change 2018-2021 (raster 100 m), Europe, 3-yearly, Jun. 2025</a></li> </ul>
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Association Type	Is composed of
Metadata Reference	<ul style="list-style-type: none"> <li>• <a href="#">Imperviousness Density 2024 (raster 10 m), Europe, 3-yearly, May 2026</a></li> </ul>
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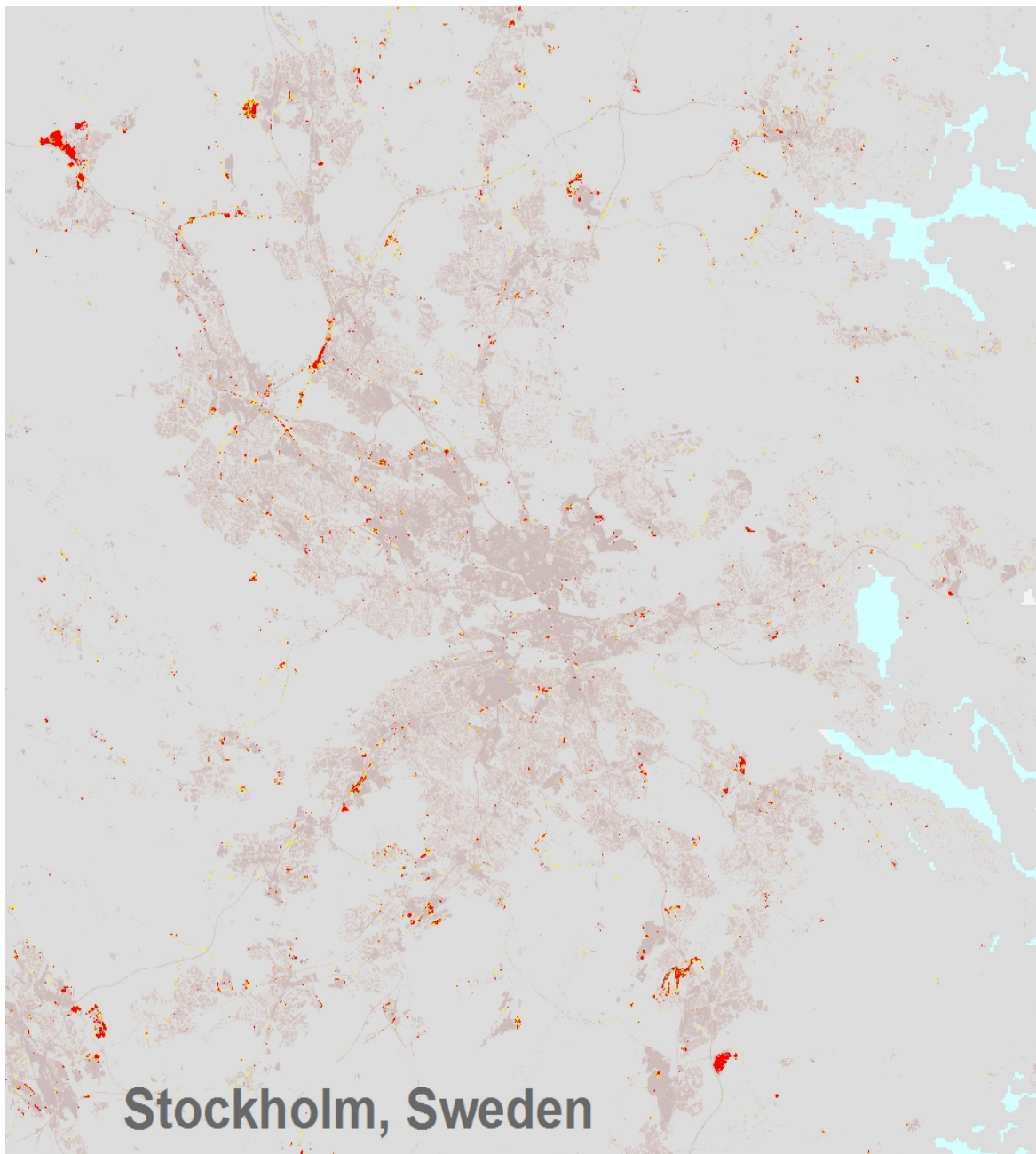
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<b>Metadata</b>				
<b>Metadata identifier</b>	e613abf4-c655-4bd2-a5d4-7770dc32da9c			
<b>Language</b>	English			
<b>Character encoding</b>	UTF8			
<b>Contact</b>	<b>Organisation</b>  European Environment Agency	<b>Individual</b>	<b>Electronic mail address</b>  sdi@eea.europa.eu	<b>Website Role</b>  Point of contact
<b>Type of resource</b>				

Resource type	Series
Metadata linkage	<a href="https://sdi.eea.europa.eu/catalogue/srv/api/records/e613abf4-c655-4bd2-a5d4-7770dc32da9c?language=all">https://sdi.eea.europa.eu/catalogue/srv/api/records/e613abf4-c655-4bd2-a5d4-7770dc32da9c?language=all</a>
Date info (Creation)	2022-09-29T14:33:12.725Z
Date info (Revision)	2026-06-09T10:55:31.478452Z

## Metadata standard

Title	ISO 19115-3:2018
Edition	1.0

## Overviews



Provided by

