



## Weighted Urban Proliferation (WUP) 2009 (LEAC Grid), Nov. 2016

The new urban sprawl metric, named "Weighted Urban Proliferation" (WUP) is based on the following definition of urban sprawl: the more area is built over in a given landscape (amount of built-up area) and the more dispersed this built-up area is in the landscape (spatial configuration), and the higher the uptake of built-up area per inhabitant or job (lower utilisation intensity in the built-up area), the higher the degree of urban sprawl.

Weighted Urban Proliferation (WUP) metric has three components: the percentage of built-up areas (PBA), the dispersion of the built-up areas (DIS), and land uptake per person (LUP).

### Simple

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Point of contact	Organisation name	Individual name	Electronic mail address	Website	Role
	European Environment Agency		sdi@eea.europa.eu	<a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a>	Point of contact

### Point of contact

No information provided.

Maintenance and update frequency	Unknown
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"><li>Population distribution — demography</li><li>Land use</li><li>Buildings</li></ul>
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"><li>urbanisation</li><li>built environment</li><li>built-up area</li><li>urban sprawl</li></ul>
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"><li>Germany</li><li>Austria</li><li>Finland</li><li>Iceland</li><li>Lithuania</li><li>Slovakia</li><li>Hungary</li><li>Czechia</li></ul>

	<ul style="list-style-type: none"> <li>Poland</li> <li>Belgium</li> <li>Spain</li> <li>Liechtenstein</li> <li>United Kingdom</li> <li>France</li> <li>Italy</li> <li>Greece</li> <li>Slovenia</li> <li>Ireland</li> <li>Switzerland</li> <li>Netherlands</li> <li>Luxembourg</li> <li>Croatia</li> <li>Sweden</li> <li>Latvia</li> <li>Portugal</li> <li>Estonia</li> <li>Norway</li> <li>Romania</li> <li>Bulgaria</li> <li>Denmark</li> </ul>
EEA topics	<ul style="list-style-type: none"> <li>Buildings and construction</li> <li>Land use</li> <li>Urban sustainability</li> </ul>
Access constraints	Other restrictions
Other constraints	<a href="#">no limitations to public access</a>
Use constraints	Other restrictions
Other constraints	EEA standard re-use policy: unless otherwise indicated, re-use of content on the EEA website for commercial or non-commercial purposes is permitted free of charge, provided that the source is acknowledged ( <a href="http://www.eea.europa.eu/legal/copyright">http://www.eea.europa.eu/legal/copyright</a> ). Copyright holder: European Environment Agency (EEA).
Spatial representation type	Grid
Distance	1 km
Language of dataset	English
Character set	UTF8
Topic category	<ul style="list-style-type: none"> <li>Environment</li> </ul>

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Begin date	2008-01-01		
End date	2011-12-31		
Coordinate reference system identifier	<a href="#">EPSG:3035</a>		
Distribution format	<ul style="list-style-type: none"> <li>GeoTIFF ( 2016)</li> </ul>		
OnLine resource	<b>Protocol</b> EEA:FILEPATH  WWW:URL  ESRI:REST  OGC:WMS	<b>Linkage</b> <a href="https://sdi.eea.europa.eu/webdav/datastore/public/eea_r_3035_1_km_wup2009_p_2008-2011_v02_r00/WUP2009_G1km.tif">https://sdi.eea.europa.eu/webdav/datastore/public/eea_r_3035_1_km_wup2009_p_2008-2011_v02_r00/WUP2009_G1km.tif</a> <a href="https://sdi.eea.europa.eu/data/02580a02-cb8d-4474-95bb-4fdb30a50119">https://sdi.eea.europa.eu/data/02580a02-cb8d-4474-95bb-4fdb30a50119</a>  <a href="https://land.discomap.eea.europa.eu/arcgis/rest/services/Urban_Sprawl/WUP_1km_2009y/MapServer">https://land.discomap.eea.europa.eu/arcgis/rest/services/Urban_Sprawl/WUP_1km_2009y/MapServer</a> <a href="https://land.discomap.eea.europa.eu/arcgis/services/Urban_Sprawl/WUP_1km_2009y/MapServer/WMServer?request=GetCapabilities&amp;service=WMS">https://land.discomap.eea.europa.eu/arcgis/services/Urban_Sprawl/WUP_1km_2009y/MapServer/WMServer?request=GetCapabilities&amp;service=WMS</a>	<b>Name</b>          Direct download (Eionet authentication)
Hierarchy level	Dataset		

## Conformance result

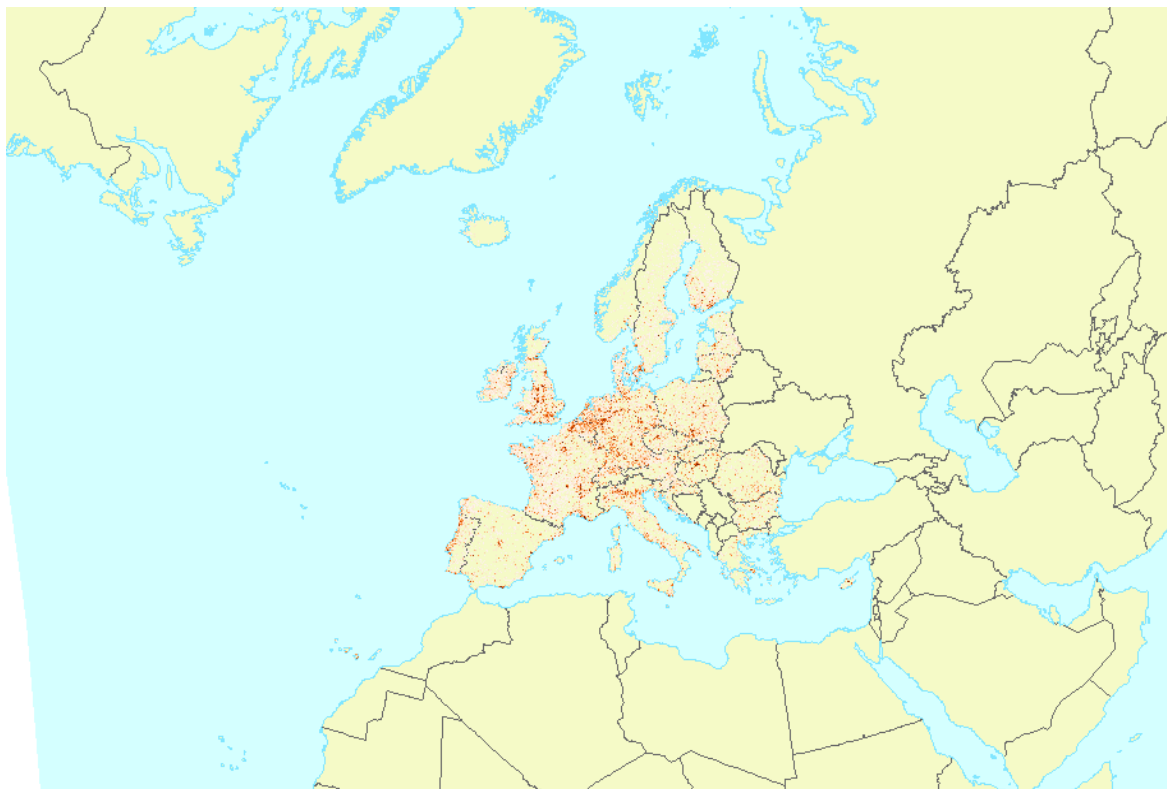
Title	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
Date (Publication)	2010-12-08
Explanation	See the referenced specification
Statement	<p>The mapping computation steps are:</p> <ol style="list-style-type: none"> <li>1) A built-up areas were selected from the raster High Resolution Layer – Imperviousness Degree (HRL IMD). Only these pixels, where IMD value <math>\geq 30\%</math> were selected as built-up.</li> <li>2) The built-up areas layer together with the reference units layer were inputs to the computations (NUTS0, NUTS2 and 1km LEAC grid were used as the reference layers)</li> <li>3) WUP values were computed by equations described in <a href="https://www.wsl.ch/fileadmin/user_upload/WSL/Services_Produnkte/Software_Apps/USM/USM-Toolset-User-Manual.pdf">https://www.wsl.ch/fileadmin/user_upload/WSL/Services_Produnkte/Software_Apps/USM/USM-Toolset-User-Manual.pdf</a> (pages 2 and 17-18 )</li> </ol>

4) Newly developed tool called "Urban Sprawl Metric Tool" is available on the <https://www.wsl.ch/en/services-and-products/software-websites-and-apps/urban-sprawl-metrics-usm-toolset.html>

## Metadata

File identifier	02580a02-cb8d-4474-95bb-4fdb30a50119 <a href="#">XML</a>		
Metadata language	English		
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Hierarchy level	Dataset		
Date stamp	2022-03-28T08:34:19.433Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	Organisation name	Individual name	Electronic mail address Website Role
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## Overviews



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