

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		info@eea.europa.eu	http://www.eea.europa.eu	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"> Population distribution — demography Land use Buildings
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"> urbanisation built environment built-up area urban sprawl
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> Germany Austria Finland Iceland Lithuania Slovakia Hungary Czechia

	<ul style="list-style-type: none"> Poland Belgium Spain Liechtenstein United Kingdom France Italy Greece Slovenia Ireland Switzerland Netherlands Luxembourg Croatia Sweden Latvia Portugal Estonia Norway Romania Bulgaria Denmark
EEA topics	<ul style="list-style-type: none"> Buildings and construction Land use Urban sustainability
Access constraints	Other restrictions
Other constraints	no limitations to public access
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 (http://www.eea.europa.eu/legal/copyright). 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"> Environment

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Begin date	2008-01-01
End date	2011-12-31
Coordinate reference system identifier	EPSG:3035
Distribution format	<ul style="list-style-type: none"> GeoTIFF (2016)

OnLine resource

No information provided.

Hierarchy level	Dataset
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Conformance result

Date (Publication)	2010-12-08
Explanation	See the referenced specification

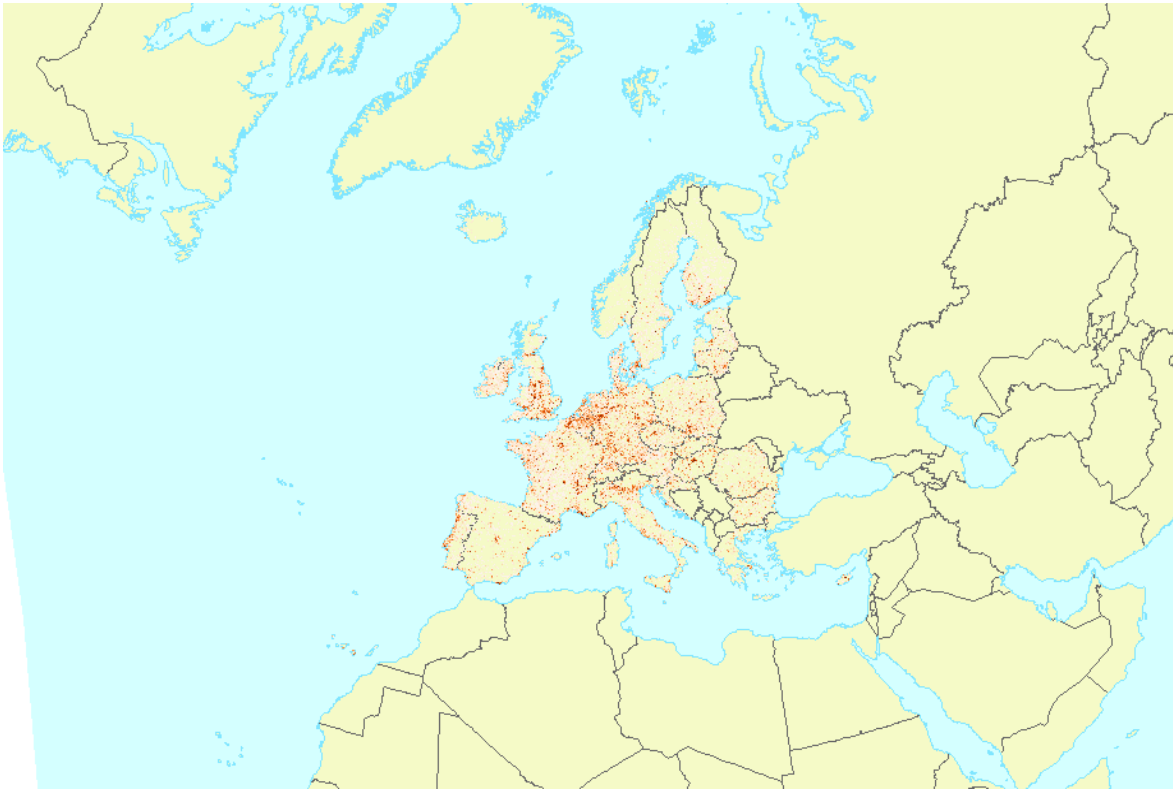
Statement	<p>The mapping computation steps are:</p> <ol style="list-style-type: none"> 1) A built-up areas were selected from the raster High Resolution Layer – Imperviousness Degree (HRL IMD). Only these pixels, where IMD value $\geq 30\%$ were selected as built-up. 2) The built-up areas layer together with the reference units layer were inputs to the computations (NUTS0, NUTS2 and 1km LEAC grid were used as the reference layers) 3) WUP values were computed by equations described in https://www.wsl.ch/fileadmin/user_upload/WSL/Services_Produnkte/Software_Apps/USM/USM-Toolset-User-Manual.pdf (pages 2 and 17-18) 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
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Metadata

File identifier	02580a02-cb8d-4474-95bb-4fdb30a50119 XML
Metadata language	English
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Hierarchy level	Dataset
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Overviews



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