

Landscape fragmentation Effective Mesh Size: major anthropogenic fragmenting elements (FGA1-M), version 2.0, Nov. 2016

The raster file is the basis of the indicator for assessing landscape fragmentation due to urban and transport expansion, considering major roads only. The computation is based on the method of Effective Mesh Size (meff, Jaeger 2000). The effective mesh size (meff) can be interpreted as the area that is accessible to animals when starting a movement at a randomly chosen point inside a landscape without encountering a physical barrier. The meff expresses the probability that any two points chosen randomly in an area are connected, that is, not separated by the barriers of a Fragmentation Geometry (FG) such as transport routes or built-up areas. Hence, meff is a measure of landscape connectivity, i.e. the degree to which movements between different parts of the landscape are possible. The meff is measured as an area (km²), within the cells of a 1 km² regular grid as reporting units.

Simple

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Point of contact	Organisation name	Individual name	Electronic mail address Role
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Point of contact

No information provided.

Maintenance and update frequency	Irregular
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"> • Transport networks • Soil • Habitats and biotopes
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"> • animal corridor • animal habitat • built-up area • built environment
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> • EEA39
Spatial scope	<ul style="list-style-type: none"> • European

EEA topics	<ul style="list-style-type: none"> • Land use • Biodiversity • Agriculture and food • Forests and forestry
Use limitation	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).
Access constraints	Other restrictions
Other constraints	no limitations to public access
Spatial representation type	Grid
Distance	1 km
Language of dataset	English
Character set	UTF8
Topic category	<ul style="list-style-type: none"> • Environment



Begin date	2011-11-30
End date	2016-08-31
CRS identifier	EPSG:3035
Distribution format	<ul style="list-style-type: none"> • GeoTIFF (6.0)

OnLine resource

No information provided.

Hierarchy level	Dataset
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Conformance result

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

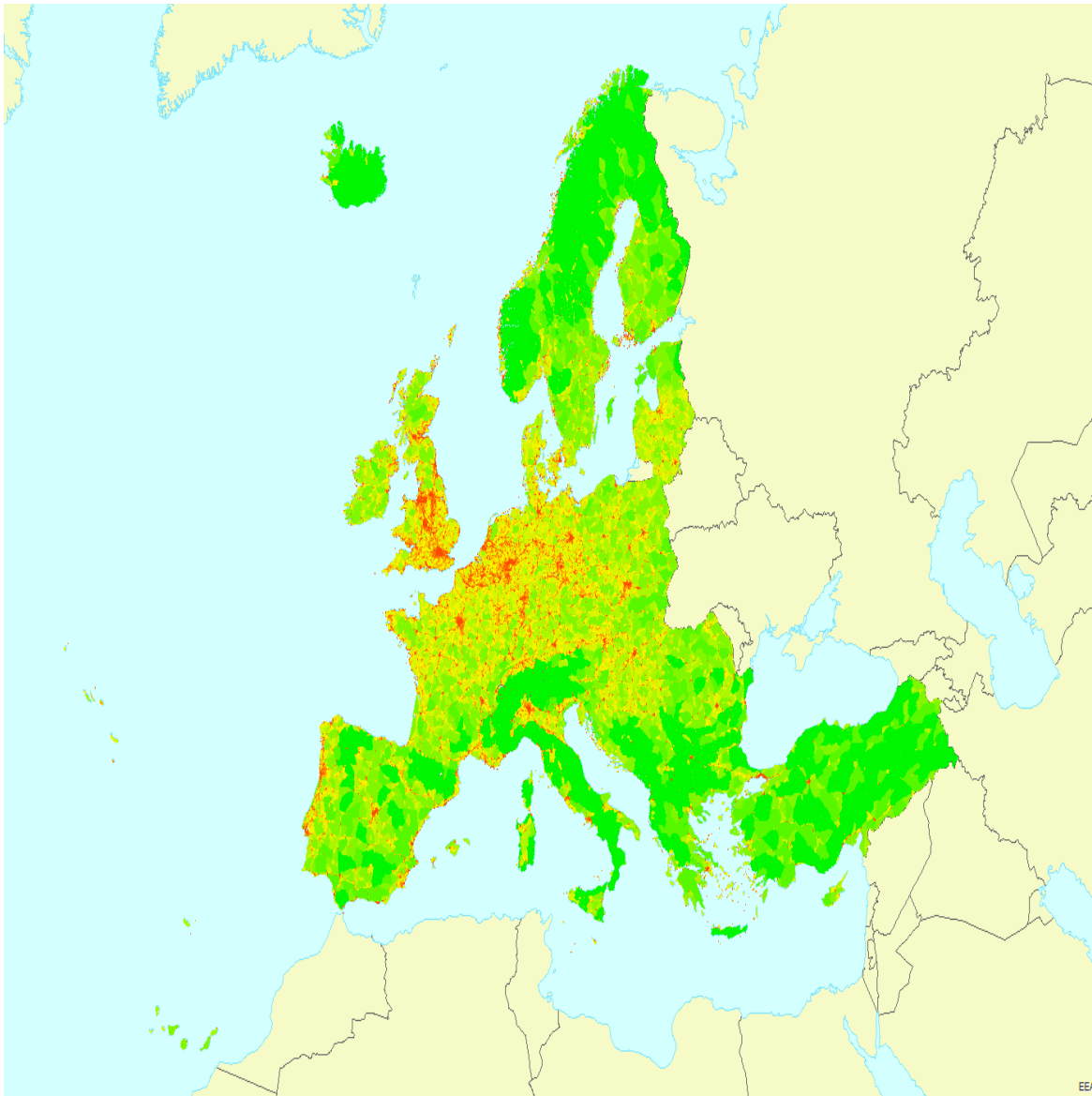
Statement	<p>The Copernicus High Resolution Layer - Imperviousness degree is source layer for the build-up area (30% of IMD is threshold for the build-up area selection). The Open Street Map (OSM) database is the source of the transport routes. Only these elements from the OSM are included in the major anthropogenic fragmentation: motorways and motorways links, trunk and trunk links, primary roads and primary roads links, railroads. Tunnels are excluded from the dataset.</p> <p>The mapping computation steps are:</p> <ol style="list-style-type: none"> 1) selection of build-up areas from the Copernicus High Resolution Imperviousness Degree layer 2) selection of transport routes relevant to the fragmentation geometry 3) deleting of tunnels from the transport routes 4) creating of buffers around the transport routes. A buffer size is dependent on the route class 6) erasing of build-up areas and the buffered routes from the seamless EEA39 territory layer 7) computation of meff values for each reference units <p>For a detailed methodology, please consult the indicator fact sheet.</p> <p>http://forum.eionet.europa.eu/etc-urban-land-and-soil-systems/library/action-plan-2016/1.8.2.6-first-draft-indicator-fragmentation-ecosystems-and-habitats/deliverables/indicator-factsheet-part</p>
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Metadata

File identifier	4a038ec2-f132-485e-a8e7-bc1043d8ca2f XML
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Hierarchy level	Dataset		
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Overviews



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