https://www.eea.europa.eu/themes/sustainabilitytransitions/urban-environment/urban-greeninfrastructure/indicators\_for\_urban-green-infrastructure https://eea.maps.arcgis.com/apps/MapSeries/index.html?appid=42 bf8cc04ebd49908534efde04c4eec8%20&embed=true

## 8.7 Hot spot in peri-urban green infrastructure

**Project Name:** Indicators for urban green infrastructure (EEA) **Author/s and affiliations:** EEA, ETC/ULS

Hot spot in peri-urban green infrastructure Green Space Management		
Description and justification	The urban-rural interface, the meets the countryside, has a permeability of its boundaries diverse region, where develop occur at different spatial and fringe is characterised by the compensation of derived imp competition for land use tak potential conflicts of interest end-users. However, it also greening and for connecting a solid and functional natural The hotspot identifies those green spaces and the impact This indicator provides inform location of areas where potes from a positive perspective, present major opportunities hand, high hotspot values me effects of the encroachment landscapes and the related I functions. On the other hand opportunity to use green spa- island effect or to clean up p	he area where a city or town no clear delineation due to the es. It is a dynamic and highly opment processes and changes d temporal scales. The urban e trade-off of land uses and the bacts. Here, a strong es place and, accordingly, t may arise among a variety of presents an opportunity for existing green spaces to build al network. areas where the influence of t of artificial elements overlap. mation about the amount and ential conflicts may exist or, where management actions for enhancement. On the one hay be due to the negative of artificial areas into green oss of ecosystem services and d, it may represent an aces to alleviate the urban heat pollution.
Definition	The hotspot ratio is the perc urban areas, strongly influer up areas. Potential and a co coincide.	entage of potential GI in peri- nced by the proximity of built- nsiderable urban effect
Strengths and weaknesses	Strength: Weaknesses: resolution of th unit 25 ha).	ne data (minimum mapping

Measurement procedure and tool	The indicator is based upon two metrics: a) the delineation of NBS, and b) the potential area of influence of built-up areas. Delineation of NBS in the peri-urban area is described in the factsheet Effective GI. The potential area of influence of built-up is calculated by selecting the Corine Land Cover classes 1.1, 1.2 and 1.3. Then, Corilis methodology is applied (EEA, 2006), which results in intensity maps after weighting values of neighbouring cells. Therefore, the outcome is a map of probability for the presence of built-up areas (varying from 0 to 100). The hot spot is the intersection of areas with a minimum value of 50% for the green potential and 25% for the urban.	
Scale of measurement	Minimum mapping unit 25 ha <u>Note:</u> the indicator is now based on the 25 ha MMU Corine Land Cover dataset. In 2020, the Copernicus Urban Atlas data will be used and hence the MMU will improve to 0.25 ha.	
Data source		
Required data	Corine Land Cover	
Data input type	Data provided by Copernicus Land Monitoring Service with public access	
Data collection frequency	Every 6 years (2000, 2006, 2012, 2018).	
Level of expertise required	Geospatial analysis. Thematic knowledge on green infrastructure and urban environment.	

Synergies with other indicators	Share of green urban areas (EEA) Access to green areas in Europe (DG Regio) Effective GI in peri-urban areas (EEA)
Connection with SDGs	SDG-11 (Sustainable cities and communities), specifically target 11.7 (universal access to safe, inclusive and accessible, green and public spaces)
Opportunities for participatory data collection	
Additional informa	tion
References	<ul> <li>EEA, 2006. Land accounts for Europe 1990-2000. EEA. EES Report No 11/2006.</li> <li>https://www.eea.europa.eu/publications/eea_report_2006_11</li> <li>/eea_report_2006_11/viewfile#pdfjs.action=download</li> <li>EEA, 2014, Spatial analysis of green infrastructure in Europe, EEA Technical Report No 2/2014, European Environment Agency. https://www.eea.europa.eu/publications/spatial-analysis-of- green-infrastructure</li> <li>https://www.eea.europa.eu/themes/sustainability- transitions/urban-environment/urban-green- infrastructure</li> <li>https://eea_maps_arcgis_com/apps/ManSeries/index_html?appid=42</li> </ul>
	https://eea.maps.arcgis.com/apps/wapseres/index.ntm?appid=42
Contextual Information Country: Spain Area (km²) 33,6 Population density (inhikm²) 5.067,4 Max average temperature (°C) 23,7	some extent the opposite picture to cluster o typeen clues). There are only rew southern European cities in this group, but quite a number of cities in the central and southern part of Poland, as well as in Germany (mostly, but not exclusively, the western part, Rhine-Ruhr region) and the Netherlands. It contains many large and capital cities, of which many have been or still are industrial cities.
Min average temperature (°C) 4,6 Annual precipitation (mm) 662.5	Characterising cluster parameters
Urban water areas (%) 0,0	0,75
Share of Green Infrastructure           Share of Green Urban Area (%)         59,9           Distribution of GUA (m/ha)         23,4           Effective GI - Mean (%)         33,0           Mean Hotspot (%)         4,8	Degree of solid sealing before of a class of
Effective Green Infrastructu	re Cty Mean EGI
0 5 10 15 Dis	20 25 30 35 40 45 50