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8.31 Recreational opportunities provided by green infrastructure

Project Name: URBAN GreenUP (Grant Agreement no. 730426)

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Mainhted recreation		Crean Space Management
Weighted recreational opportunities provided by green infrastructure		Green Space Management
Description and justification	This KPI aims to measure the increase of opportunities related to green infrastructures (Derkzen et al. 2015), being valued for recreation, social interaction, education and supporting healthy living (satisfaction).	
Definition	This KPI measures the recreation opportunities available by urban green infrastructure.	
Strengths and weaknesses	This KPI requires specific software (GIS software).	
Measurement procedure and tool	The availability of recreation opportunities can be measured considering different elements: types of urban green infrastructure; degree of naturalness; aesthetics- scenic beauty; and presence of water. Users were asked to score these elements according to the relative importance. Scores were discussed during a focus group.	
Scale of measurement	City/neighbourhood	
Data source		
Required data	engagement with NBS thr of activity undertaken in/ and cycling), frequency of as frequency count data (visitors, number of recrea cultural events, people in educational activities) val Surface measurements sh Geographical Information shall be calculated with th	ue (Kabiisch and Haase 2014). nall be calculated with Systems (GIS). A Social Survey

Data input type	GIS data (vectorial, raster)	
Data collection frequency	Pre and post intervention.	
Level of expertise required	Technical/expert	
Synergies with other indicators	This KPI is strongly related with KPI Accessibility: distribution, configuration and diversity of green space and land use changes (multi-scale, green spaces quantity), and Perceptions of citizens on urban nature – green spaces quality.	
Connection with SDGs	This KPI is directly related with SDG 11 and SDG 3.	
Opportunities for participatory data collection	This is not a KPI open to participatory collaboration.	
Additional information		
References	 URBAN GreenUP Deliverable D2.4 - Monitoring program to Valladolid. https://www.urbangreenup.eu/insights/deliverables/d2-4 -monitoring-program-to-valladolid.kl URBAN GreenUP Deliverable D3.4 - Monitoring program to Liverpool https://www.urbangreenup.eu/insights/deliverables/d3-4 -monitoring-program-to-liverpool.kl URBAN GreenUP Deliverable D4.4 - Monitoring program to Izmir https://www.urbangreenup.eu/insights/deliverables/d4-4 monitoring-program-to-izmir.kl URBAN GreenUP Deliverable D5.3: City Diagnosis and Monitoring Procedures https://www.urbangreenup.eu/insights/deliverables/d5-3- city-diagnosis-and-monitoring-procedures.kl Questionnaires applied to the population for the recreational and cultural benefits of green spaces (Kabisch and Haase, 2014). Derkzen, M.L., van Teeffelen, A.J.A., Verburg, P.H., 2015. Quantifying urban ecosystem services based on high- resolution data of urban green space: An assessment for Rotterdam, the Netherlands. J. Appl. Ecol. 52, 1020–1032. doi: 10.1111/1365-2664.12469 QGIS 3 – Userguide. https://www.qgis.org/en/site/ QGIS Development Team 2013. QGIS Geographic Information System. Open Source Geospatial Foundation. URL 	