

INFORMATION SHEET N°	38	TARGET	11.7
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OUTPUT

Indicator	Accessibility of green spaces		
Description	Proportion of the population that is less than a 5-minute walk (400 m along the street route) from green spaces. Urban green spaces and wooded areas of more than 1 ha were taken into account to calculate the indicator.		
Type	GIS	Source	Manual for the preparation of VLRs (JRC)

Data source

Madrid Nuevo Norte	Green spaces:	BIM	YES
	Combination of the following files into a single GIS layer: <ul style="list-style-type: none"> • 1997 SPECIFIC MODIFICATION OF THE CITY PLAN in the Planning Areas: APE 08.03 “Prolongación de la Castellana” AND APE 05.27 “Colonia Campamento” for the Definition of the Determinations and Planning Parameters of the Urban Development Operation "MADRID NUEVO NORTE". V. DETAILED PLANNING DOCUMENTATION Annex 5. Study of existing facilities networks in the area and proposed networks. • MNN_AD.GDB 		
	Street layout	BIM	NO
	Combination of the following files into a single GIS layer: <ul style="list-style-type: none"> • MNN_AD.GDB • Red - Transportes_MPG_200211 		
	Population: Location and number of inhabitants	BIM	NO
Comparison	Green spaces and forests of Madrid		
	<ul style="list-style-type: none"> • Urban Atlas 2018 (https://land.copernicus.eu/local/urban-atlas) 		
	Street layout		
	<ul style="list-style-type: none"> • Roadway: Travel axes. NOME CALLES. Official nomenclator and street map of the Region of Madrid (https://www.madrid.org/nomecalles/DescargaBDTCorte.icm) 		
	Population: Location and number of inhabitants		
<ul style="list-style-type: none"> • Population polygons: Urban Atlas 2018 (https://land.copernicus.eu/) 			

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Calculation method

The methodology used to calculate the level of service of green spaces was the one described in the section "Methodology for calculating accessibility indicators".

To select the polygons of urban green spaces and forests, and to transform them into points layers, the methodology in the paper mentioned above "A short walk to the park? Describing the updated methodology" (Poelman et al., 2021) was followed. The Points along geometry tool was applied with a distance of 50 m and by applying the tool Extract distance within, the points close to the connection networks were obtained (25 m distance). The service layer was created from this point layer the service area and was then dissolved by the unique identifier of each polygon. As described in this article, only green spaces and wooded areas of more than 1ha were counted, both inside and outside Madrid Nuevo Norte. During the activity of Madrid Nuevo Norte, the precision of the indicator may be improved with the actual population figures and locations, the detailed layout of the streets in Madrid Nuevo Norte and the final locations of the entrances to the green spaces.

OUTCOME

Indicator	Unit	Source
Built-up Area	m2/inhab.	Spanish Statistical Office (https://www.ine.es/dyngs/ODS/es/objetivo.htm?id=4907)
Surface area of green spaces	hectares	Strategy for localisation of the SDGs in the city of Madrid (https://www.madrid.es/portales/munimadrid/es/Inicio/El-Ayuntamiento/Cooperacion-y-Ciudadania-Global/Agenda-2030/Estrategia-de-localizacion-de-los-ODS-en-la-ciudad-de-Madrid/?vgnnextfmt=default&vgnextoid=b7b75cd724a38710VgnVCM1000001d4a900aRCRD&vgnnextchannel=5347a62071048710VgnVCM1000001d4a900aRCRD)