

<b>INFORMATION SHEET N°</b>	3	<b>TARGET</b>	2.2
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**OUTPUT**

<b>Indicator</b>	Accessibility of sports facilities		
<b>Description</b>	Proportion of the population living less than a 5-minute walk (400 m) from sports facilities, including both sports facilities larger than 100 m2 (sport centres and sports courts) and outdoor playgrounds and fitness areas.		
<b>Type</b>	GIS	<b>Source</b>	Based on the 5-minute city principle (UMF, JRC)

**Data source**

<b>Madrid Nuevo Norte</b>	Plots with sports facilities	<b>BIM</b>	NO
	Outdoor playgrounds or fitness areas	<b>BIM</b>	YES
	Combination of the following files into a single GIS layer: <ul style="list-style-type: none"> <li>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 4. Specific Urban Development Regulations</li> <li>DOC. 3: DESIGN PRINCIPLES OF THE LANDSCAPE FRAMEWORK. LANDSCAPE MASTER FRAMEWORK</li> <li>MNN_AD.GDB</li> </ul>		
	Street layout	<b>BIM</b>	NO
	Combination of the following files into a single GIS layer: <ul style="list-style-type: none"> <li>MNN_AD.GDB</li> <li>Red - Transportes_MPG_200211</li> </ul>		
	Population: Location and number of inhabitants	<b>BIM</b>	NO

<b>Comparison</b>	Sports facilities and outdoor playgrounds or fitness areas		
	<ul style="list-style-type: none"> <li>Sports facilities in Madrid: 1:1000 municipal maps by districts (2016) (<a href="https://datos.madrid.es/">https://datos.madrid.es/</a>)</li> </ul>		
	Street layout		
	<ul style="list-style-type: none"> <li>Roadway: Travel axes. NOME CALLES. Official nomenclator and street map of the Region of Madrid (<a href="https://www.madrid.org/nomecalles/DescargaBDTCorte.icm">https://www.madrid.org/nomecalles/DescargaBDTCorte.icm</a>)</li> </ul>		
	Population: Location and number of inhabitants		

**Calculation method**

The methodology used to calculate the service level of sports facilities was the one described in the section "Methodology for calculating

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### OUTPUT

accessibility indicators", with the difference being that the starting services layer was in polygon format and required the preliminary processing described below.

Since the starting layer of the service area has to be a points layer, a series of vector operations had to be carried out to transform the polygons. The steps recommended by the JRC in the paper "A short walk to the park? Describing the updated methodology" (Poelman et al., 2021) were followed.

Using the Points along geometry tool, with a distance of 50m, uniform points were created along the perimeter of each of the polygons. The Extract tool was then used to take the points that are within 25m of the roadway (which are the points that are most likely to be the entry point to the track), which were used to calculate the service area.

After the service area was calculated (using the methodology described above) it was dissolved with the Dissolve tool by the unique identification field of the layer in order to identify the track to which each service area corresponds and improve the processing speed of the program.

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 facilities.

### OUTCOME

Indicator	Unit	Source
Proportion of children aged 2-17 years who are obese, overweight or underweight	%	Strategy for localisation of the SDGs in the city of Madrid ( <a href="https://www.madrid.es/portales/munimadrid/es/Inicio/EI-Ayuntamiento/Cooperacion-y-Ciudadania-Global/Agenda-2030/Estrategia-de-localizacion-de-los-ODS-en-la-ciudad-de-Madrid/?vgnnextfmt=default&amp;vgnextoid=b7b75cd724a38710VgnVCM1000001d4a900aRCRD&amp;vgnnextchannel=5347a62071048710VgnVCM1000001d4a900aRCRD">https://www.madrid.es/portales/munimadrid/es/Inicio/EI-Ayuntamiento/Cooperacion-y-Ciudadania-Global/Agenda-2030/Estrategia-de-localizacion-de-los-ODS-en-la-ciudad-de-Madrid/?vgnnextfmt=default&amp;vgnextoid=b7b75cd724a38710VgnVCM1000001d4a900aRCRD&amp;vgnnextchannel=5347a62071048710VgnVCM1000001d4a900aRCRD</a> )
Overweight and obese adult population	%	Ministry of Health ( <a href="https://www.sanidad.gob.es/estadEstudios/sanidadDatos/tablas/tabla10.htm">https://www.sanidad.gob.es/estadEstudios/sanidadDatos/tablas/tabla10.htm</a> )
Prevalence of malnutrition	%	—