INFORMATION SHEET N°	36	TARGET	11.3

OUTPUT			

Indicator	Open spaces for public use		
Description	Proportion of the area of the territory that corresponds to open spaces for public use, including green spaces, sports areas and pedestrian areas. The presence of open spaces for public use has been shown to have a positive effect on the level of comfort and safety of cities so this indicator is related to goal 11.3 Inclusive and sustainable urban development.		
Type	GIS	Source	Based on the UMF, adjusted to the availability of geospatial data.

Data source

Madrid Nuevo Norte	Built-up area in Madrid Nuevo Norte		BIM	NO
	Combination of the following files into a single GIS layer: • AreaMovimiento.GDB • 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 • MNN_AD.GDB			
Comparison	Built-up area in the area of influence			
	• Buildings (BU.shp) Inspire Service of the Land Registry through the Inspire QGIS plugin (Spanish Inspire Catastral Downloader)			
	Land uses			
	• Urban Atlas 2018 (https://land.copernicus.eu/local/urban-atlas)			

Calculation method

Calculated as the inverse of the Built-up area, eliminating the open spaces found in the courtyards of the building blocks (because they are for private use) and the connecting roads with vehicles travelling at high speeds.

To calculate this indicator, buildings were superimposed on the layer of land uses and the Difference tool was applied, to find all of the spaces not occupied by a building. Next, the "Keep N biggest parts" tool was used to clean up the outcome layer of the small polygons corresponding to private gardens or landscaped fractions between roadways. Lastly, editing based on the attributes table, all of the resulting spaces that did not correspond to public use (connecting roads, dumping areas, mining areas, crops, etc.) were eliminated.

In the case of Madrid Nuevo Norte, the indicator that was obtained is less accurate because of the lack of a detailed building location and shape layer.

The indicator will be updated and become more accurate after Madrid Nuevo Norte has been built because the real limits of the buildings as well as the detailed uses of each plot will be known.

OUTCOME		

Indicator	Unit	Source
Ratio of land consumption rate to population growth rate	%	Spanish Statistical Office (https://www.ine.es/dyngs/ODS/es/objetivo.htm?id=4907)