INFORMATION SHEET N°	35	TARGET	11.3

OUTPUT

Indicator	Built-up area (m2/inhabitant).
Description	Built-up area per capita. Measures the degree of compactness of the urban fabric. The most compact cities have been shown to be more resource efficient than more dispersed cities, so low indicator values mean less pressure on the planet per inhabitant. It is calculated as the built-up area (obtained from the INSPIRE service of the land registry, defined as the line surrounding buildings with volumetry above ground, excluding overhangs and terraces or balconies) divided by the total population of the study area.

Type	GIS	**Source**	Manual for the preparation of VLRs (JRC)

Data source

	Built-up area in MNN		BIM	NO
Madrid Nuevo Norte	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 Chamberí, Madrid Centro, the Ensanche district and the Gothic Quarter of Barcelona			
	• Buildings (BU.shp) Inspire Service of the Land Registry through the Inspire QGIS plugin (Spanish Inspire Catastral Downloader)			

Calculation method

It is calculated as the constructed area (defined as the line surrounding buildings with volumetry above ground, excluding overhangs and terraces or balconies) divided by the total population of the study area.
The Select by location tool was used to obtain the buildings and study areas from the BU layer of the Inspire service.
For the constructed area of Madrid Nuevo Norte, and since more detailed data are not yet available, the movement areas and plots in which the intended uses require a building were taken into account. For future updates of this indicator, it should be noted that after Madrid Nuevo Norte has been built or when more precise building location and shape layers are available, the values of the indicator will be closer to those of a more compact city because the built-up area is being overestimated in the current calculation.

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)