datos.gob.es

OPEN DATA FOR BUILDING SUSTAINABLE CITIES
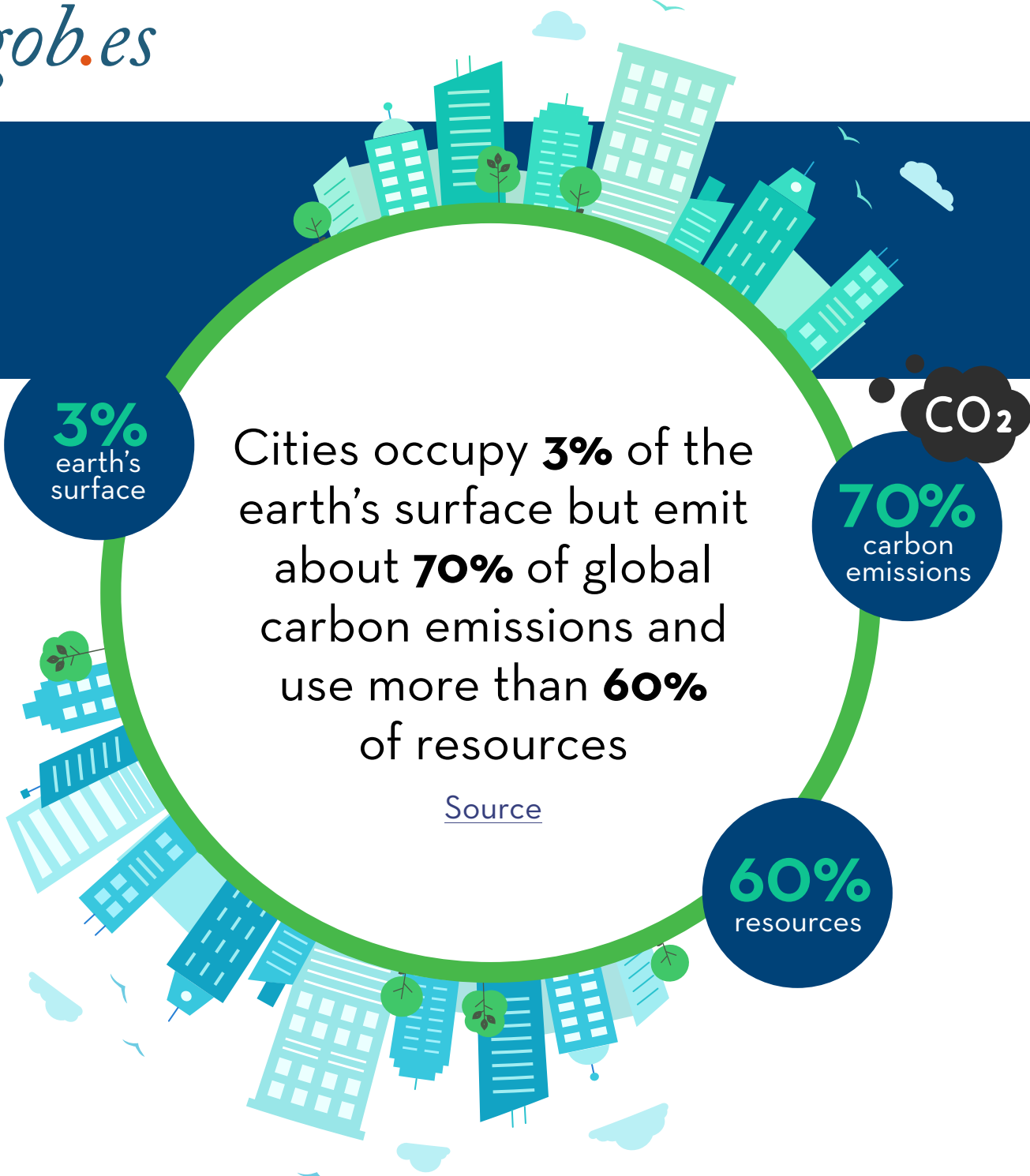
CURRENT SITUATION*

World population living in cities:

2023
More than
50%
3.5 billion people

2030
More than
60%
5 billion people

3% earth's surface

Cities occupy **3%** of the earth's surface but emit about **70%** of global carbon emissions and use more than **60%** of resources

Source

CO₂
70% carbon emissions

60% resources

More and more people live in neighbourhoods with inadequate and overburdened infrastructure and services.

*Source: United Nations

SDG 11

Make cities and human settlements inclusive, safe, resilient and sustainable.

The use of open data can contribute to the achievement of the SDGs because it helps to measure and assess their progress. Read more about the SDGs.

In which areas?

TRANSPORTATION AND URBAN MOBILITY

CLIMATE CHANGE

For which applications?

Datasets for road traffic, public parking, public bicycles or public transport.
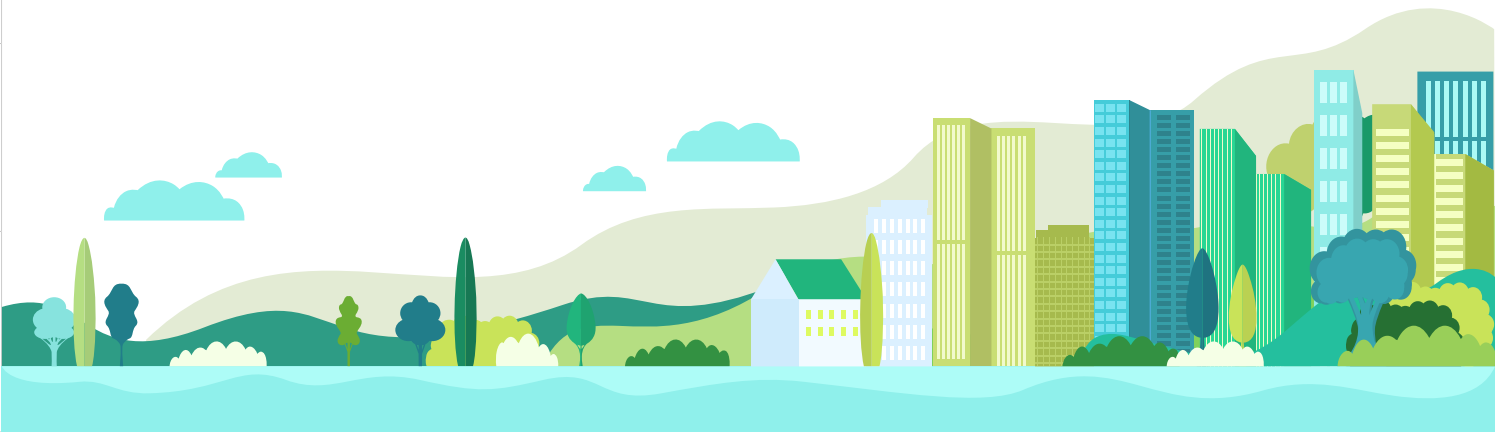
Measurements of pollutants, air quality or noise pollution.

USE CASE EXAMPLES

TRANSPORTATION AND URBAN MOBILITY

Liight: solution that rewards users for sustainable actions, such as the use of public transport and bicycles, or recycling.

Puertos del Estado: scorecard to visualize the state of port traffic in real time and every day of the year.

València al minut: website with updated information on the state of traffic, the presence of vehicles in the accesses to Valencia or the levels of pollution and noise.

Barcelona Metro Bus Rodalies Bici: application with information about the public metro, bus and bicycle system of Barcelona in real time.

ENERGY EFFICIENCY

Urban3r: visualizations that show the heating demand of a house, the energy rating, the cost of energy rehabilitation and the savings that would be obtained.

EnEKO: smart bot in Telegram that provides information on the price of electricity and fuels (gasoline and diesel).

Map of emissions and energy consumption of buildings in Castilla y León: tool to visualize the situation regarding the consumption and emissions of buildings in the autonomous community through a heat map.

AIR QUALITY AND NOISE LEVEL

Ponferrada CO2: application that measures air quality in public buildings in the city of Bierzo through IoT.

Gobernanza climática de Canarias: website with various interactive dashboards with data on emissions, carbon footprint or pollutants emitted into the atmosphere.

Contaminación Madrid: interactive dashboards that allow visualizing the degree of air pollution in Madrid in different formats and in real time.

National air quality index: dynamic measurements that provide real-time air quality data from more than 500 measuring stations throughout Spain, as well as their evolution over the last few months.

MAdb: application that shows through a map of Madrid the noise level affecting each building, facade and floor and relates it to health risks.