# OPEN DATA FOR THE DEVELOPMENT OF SUSTAINABLE CITIES

**How are open data used in the urban context?**

* **CURRENT SITUATION**: World population living in cities. \*Source: [United Nations](https://www.un.org/sustainabledevelopment/es/cities/)
  + 2023: Over 50% -> 3.5 billion people
  + 2030: Over 60% -> 5 billion people

Cities cover 3% of the Earth's surface but emit around 70% of global carbon emissions and consume over 60% of resources. [Source](https://www.un.org/sustainabledevelopment/es/wp-content/uploads/sites/3/2016/10/11_Spanish_Why_it_Matters.pdf)

**-> Increasingly, more people live in neighborhoods with inadequate and overloaded infrastructure and services. <-**

[**SDG 11**](https://www.un.org/sustainabledevelopment/es/cities/)

The use of open data can contribute to achieving the SDGs as they help measure and evaluate progress. [More information](https://www.un.org/sustainabledevelopment/es/wp-content/uploads/sites/3/2016/10/11_Spanish_Why_it_Matters.pdf)

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| **In which areas?** | **For what applications?** |
| [Transportation and urban mobility](https://datos.gob.es/es/sector/transporte) | Datasets on [road traffic](https://datos.gob.es/sites/default/files/datosgobes/conjuntos-de-datos-de-trafico-rodado_0.pdf), [public parking](https://datos.gob.es/sites/default/files/datosgobes/conjuntos-de-datos-de-aparcamientos-publicos.-v2pdf.pdf), [public bicycles](https://datos.gob.es/sites/default/files/datosgobes/conjunto-de-datos-de-transporte-publico_0.pdf), or public transportation. |
| [Environment](https://datos.gob.es/es/sector/medio-ambiente) | Measurements of pollutants, [air quality](https://datos.gob.es/sites/default/files/datosgobes/conjuntos_de_datos_de_calidad_del_aire_0.pdf), or [noise pollution](https://datos.gob.es/sites/default/files/datosgobes/conjunto-de-datos-de-contaminacion-acustica_0.pdf). |

**EXAMPLES OF USE CASES**

**TRANSPORTATION AND URBAN MOBILITY**

* [**Liight**](https://datos.gob.es/es/casos-exito/liigth#:~:text=Liight%20es%20una%20soluci%C3%B3n%20multiplataforma,instituciones%20p%C3%BAblicas%20y%20las%20empresas.): a solution that rewards users for sustainable actions such as using public transportation, cycling, or recycling.
* [**Puertos del Estado**](https://datos.gob.es/es/aplicaciones/puertos-del-estado): a dashboard to visualize the real-time state of port traffic throughout the year.
* [**València al minut**](https://datos.gob.es/es/aplicaciones/valencia-al-minuto): a website with updated information on traffic conditions, vehicle presence at Valencia's entrances, or pollution and noise levels.
* [**Barcelona Metro Bus Rodalies Bici**](https://datos.gob.es/es/aplicaciones/barcelona-metro-bus-rodalies-bici): an application with real-time information on Barcelona's public metro, bus, and bicycle system.

**AIR QUALITY AND NOISE LEVELS**

* [**Ponferrada CO2**](https://datos.gob.es/es/aplicaciones/ponferrada-co2): an application that measures air quality in public buildings in the city of Ponferrada using IoT.
* [**Gobernanza climática de Canarias**](https://gobernanzaclimatica.sitcan.es/): a website with interactive dashboards displaying data on emissions, carbon footprint, or atmospheric pollutants.
* [**Contaminación Madrid**](https://play.google.com/store/apps/details?id=com.phonegap.pollutio): interactive dashboards that visualize air pollution levels in Madrid in different formats and real-time.
* [**Índice de calidad del aire nacional**](https://ica.miteco.es/): dynamic measurements providing real-time air quality data from over 500 monitoring stations across Spain, as well as their evolution in recent months.
* [**MAdb**](https://madb.netlify.app/): an application that shows the level of noise affecting each building, facade, and floor in Madrid and relates it to health risks.

**ENERGY EFFICIENCY**

* [**Urban3r**](https://urban3r.es/): visualizations that display a home's heating demand, energy rating, the cost of energy rehabilitation, and potential savings.
* [**EnEKO**](https://datos.gob.es/es/aplicaciones/eneko-asistente-inteligente-para-el-ahorro-energetico): an intelligent bot on Telegram that provides information on electricity and fuel prices (gasoline and diesel).
* [**Mapa de emisiones y consumo de edificios en Castilla y León**](https://cee.ogarcia.es/): a tool to visualize the consumption and emissions status of buildings in the autonomous community through a heat map.

**If you know of any other relevant applications, please email us at** [**dinamizacion@datos.gob.es**](mailto:dinamizacion@datos.gob.es)**.**