MINISTRY OF
TRANSPORT, MOBILITY
AND URBAN AGENDA

STATE SECRETARIAT FOR
TRANSPORT, MOBILITY AND
URBAN AGENDA

Technical description of the content of MITMA's shared mobility data space.

In this shared space are available mobility data in Spain during the pandemic period by COVID-19 at the national level obtained using as the main source of data the positioning of cell phones, being an indispensable condition the compliance with the Organic Law 3/2018, of December 5, on Personal Data Protection and guarantee of digital rights.

The content is structured, on a first level, in two folders corresponding to the two master matrices, the **travel matrix** (master 1) and the **matrix of trips per person** (master 2). Each folder, in turn, is structured at a second level by days and by complete months of both the **study period** (from February 29, 2020 onwards) and the **reference period** (from February 14 to February 20, 2020). It also includes information on the zoning used and its geographical representation.

The content is as follows:

- ***"master1-mitma-districts":***

  This folder contains the daily and monthly trip **matrices** updated daily.

  The **master matrix 1 or trip matrix** contains the number of trips and traveler-km for each day and each combination of origin, destination, origin_activity, destination_activity, residence, time period and distance (by ranges):

  ```
  date|origin|destination|origin_activity|origin_activity_dest
  ination|residence|age|period|distance|trips|travels|trips_km
  ```

  They are compressed text files, with fields separated by '|' (vertical bar) and numeric values have '.' (dot) as decimal separator.

  The "source" and "target" data refer to the district code or a grouping of these in the case of sparsely populated areas (zoning used and can be downloaded as Shapefile - file ***"zonificacion-distritos.zip"***).

- ***"master2-mitma-districts".***

  This folder contains the **matrices of trips per person** per day and per full month updated daily.

  The **master matrix 2 or matrix of trips per person** contains the number of people who have made trips on each date and combination of census tract and trip range (0, 1, 2 or more than 2 trips):

  ```
  date|district|number_of_trips|persons
  ```

  They are compressed text files, with fields separated by '|' (vertical bar) and numeric values have '.' (dot) as decimal separator.

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The "district" data refers to the district code or a grouping of these in the case of sparsely populated areas (zoning used and can be downloaded as Shapefile - file **"zonificacion-distritos.zip"**).

- ***district_relationship_mito.csv***
  File containing the relationship between the districts and the zoning used.

- ***zoning_districts.zip***
  It contains a *shapefile* with the zoning used corresponding to districts or a grouping of these in the case of sparsely populated areas.

The same information is provided at the level of **municipalities** (or groups of municipalities in the case of sparsely populated areas), in the folders **"master1-mitma-municipalities"** and **"master2-mitma-municipalities"**. The file *"relaciones_municipio_mitma.csv"* contains the relationship between municipalities and the zoning used, and *"zonificacion_municipios.zip"* contains the *shapefile* of the zoning.

File updates can be tracked via RSS *feed:* https://opendata-movilidad.mitma.es/RSS.xml