E-Scooter OD Data

Start Date	2022-01-01 00:00:00
End Date	2023-06-30 23:59:59
N. of Entries	1001094

Origin

This data is collected by the Municipality with the Service Providers authorization, to monitor and manage the policies that are put in place for the use and operation of soft mobility in Porto City.

The data is received by a software component part of the MDS platform. Data is structured according to the MDS data structures. However, for this exercise and for the safekeeping of personal data, the available dataset is already in an Origin/Destin format.

Transformations

Personal data has been removed.

Data Dictionary

Name	Description	Type	Default	Example
trip_id	unique identifier of the current trip of the device	uuid	null	0001f5e6-6adc-5c50-8f3b-02eb05490ae2
recorded_origin	datetime of origin record	datetime	null	2022-08-23 02:32
event_types_origin	type of origin event : {trip_start, located, provider_drop_off, trip_enter_jurisdiction}	array	null	['trip_start']

recorded_destin	datetime of destin record	datetime	null	2022-08-23 02:46
event_types_destin	type of destin event : {trip_end, battery_low, comms_lost, decommissioned, maintenance, missing, unspecified, trip_leave_jurisdiction}	array	null	['trip_end']
month	month of the trip	bigint	null	8
year	year of the trip	bigint	null	2022
hour_start	hour that the trip started	bigint	null	1
hour_end	hour that the trip ended	bigint	null	1
day	day of the trip	bigint	null	23
string_day	day of the week	varchar	null	Tuesday
type_day	type of day: {Weekday, Weekend}	varchar	null	Weekday
geometry_origin	location of the origin point	point	null	(-8.6247472763, 41.1572380066)
geometry_destin	location of the destin point	point	null	(-8.6251897812, 41.1666870117)
distance_km	travelled distance in km	double	null	1.0513356950585453
duration_min	travelled time in min	double	null	13.7
origin_park	origin shared point	tuple	null	('Avenida da Boavista', 83.0)

destin_park	destin shared point	tuple	null	('Praça do Exército Libertador', 202.0)

Info

- Origin Event Types:
  - → trip_start
  - → battery_charged
  - → provider_drop_off
  - → located - device was missing but now has been located
  - → trip_enter_jurisdiction - device entered area of jurisdiction
- Destin Event Types:
  - → trip_end
  - → battery_low
  - → comms_lost - device cannot communicate
  - → decommissioned - taken out of circulation
  - → maintenance
  - → missing - device cannot be found
  - → trip_leave_jurisdiction - device left area of jurisdiction
  - → unspecified - other