

INDEPENDENT VARIABLES (FOR EACH MUNICIPALITY):

- KEY:
 - municipality: INE ID ("00000"; INE)
 - name: name of the municipality (character; INE)
- POPULATION SPATIAL DISTRIBUTION:
 - area: area of territory (km²)
 - density: population density (population / area; people/km²)
 - area_Voronoi: area of Voronoi polygon (km²)
 - density_Voronoi: Voronoi density (population / area_Voronoi; people/km²)
- DEMOGRAPHY:
 - population: population (people; INE 2022)
 - men (people; INE 2022)
 - **men_rate**: men / population * 100 (%; INE 2022)
 - women (people; INE 2022)
 - **women_rate**: women / population * 100 (%; INE 2022)
 - kids: people between 0 and 15 years (people; INE 2022)
 - **kids_rate**: kids / population * 100 (%; INE 2022)
 - youth: people between 16 and 29 years (people; INE 2022)
 - **youth_rate**: youth / population * 100 (%; INE 2022)
 - popul1664: people between 16 and 64 years (people; INE 2022)
 - **adult_rate**: popul1664 / population * 100 (%; INE 2022)
 - men1664: men between 16 and 64 years (people; INE 2022)
 - women1664: women between 16 and 64 years (people; INE 2022)
 - women1549: women of reproductive age, between 15 and 49 years (people; INE 2022)
 - **women1549_rate**: women1549 / population * 100 (%; INE 2022)
 - popul64: people greater than 64 years (people; INE 2022)
 - **elder_rate**: popul64 / population * 100 (%; INE 2022)
 - spanish: number of spanish people (people; INE 2022)
 - **spanish_rate**: spanish / population * 100 (%; INE 2022)
 - foreigner: number of foreign people (people; INE 2022)
 - **foreign_rate**: foreigner / population * 100 (%; INE 2022)
 - mean_age: mean age of population (years; INE 2020)
 - household_size (people; INE 2020)
 - single_household_rate: percentage of single household in relation to total households (%; INE 2020)
 - dependency_rate: (population <15 + population >64) / population 15 a 64) *100 (%; INE 2021)
 - longevity_rate: population >74 / population >64 * 100 (%; INE 2021)
 - ageing_rate: population >64 / population <16 * 100 (%; INE 2021)
 - motherhood_rate: population 0 to 4 / women1549 *100 (%; INE 2021)
 - trend: population 0 to 4 / population 5 to 9 * 100 (%; INE 2021)
 - replacement: population 20 to 29 / population 55 to 64 * 100 (%; INE 2021)
- POPULATION DINAMICS:
 - births: number of births (people; INE 2021)
 - deaths: number of deaths (people; INE 2021)
 - natural_increase: births - deaths (people; INE 2021)
 - **natural_increase_rate**: (births - deaths) / popul2001 * 100 (%; INE 2001,2021)
 - marriages: number of marriages (INE 2021)
- OTHER DEMOGRAPHIC VARIABLES:
 - popul2001: population in 2001 (people; INE 2001)
 - popul_growth: population growth between 2001 and 2020 (people; INE 2001 & 2020)
 - popul_growth_rate: % of population growth between 2001 and 2020 (%; INE 2001 & 2020)
 - residential_growth: residential variations between 2001 and 2020 (people; INE 2001 & 2020)
 - residential_growth_rate: % of residential variations between 2001 and 2020 (%; INE 2001 & 2020)

- LABOUR MARKET:
 - unemployment (people; SISPE 2020)
 - **unemployment_rate**: $\text{unemployment} / \text{popul1664} * 100$ (%; SISPE 2020)
 - unempl_men: unemployed men (people; SISPE 2020)
 - **unempl_men_rate**: $\text{unemployment_men} / \text{men1664} * 100$ (%; SISPE 2020)
 - unempl_women: unemployed women (people; SISPE 2020)
 - **unempl_women_rate**: $\text{unempl_women} / \text{women1664} * 100$ (%; SISPE 2020)
 - unempl_youth: unemployed youth (people; SISPE 2020)
 - **unempl_youth_rate**: $\text{unempl_youth} / \text{youth} * 100$ (%; SISPE 2020)
 - afil: affiliation (people; IES 2020)
 - **afil_rate**: $\text{afil} / \text{popul1664} * 100$; %; IES 2020)
 - afil_agri: affiliated in agriculture (people; IES 2020)
 - afil_indus: affiliated in industry (people; IES 2020)
 - afil_const: affiliated in construction (people; IES 2020)
 - afil_serv: affiliated in services (people; IES 2020)
 - **afil_agri_rate**: % affiliated in agriculture ($\text{afil_agri} / \text{afil} * 100$; %; IES 2020)
 - **afil_indus_rate**: % affiliated in industry ($\text{afil_indus} / \text{afil} * 100$; %; IES 2020)
 - **afil_const_rate**: % affiliated in construction ($\text{afil_cons} / \text{afil} * 100$; %; IES 2020)
 - **afil_serv_rate**: % affiliated in services ($\text{afil_serv} / \text{afil} * 100$; %; IES 2020)
 - contracts: number of contracts (contracts; SISPE 2022)
 - contr_people: number of people hired (people; SISPE 2022)
 - enterprises: number of enterprises (enterprises; IES 2022)
- TIC SERVICES:
 - cover: type of access to fixed internet (none/ADSL/ADSL10/WIFI/WIFI30/SAT/SAT2M/SAT20M/WIMAX/WIMAX30/WIMAX50/WIMAX100/HFC/FTTH; IES 2022)
 - cover_phone: type of access to mobile internet (none/GSM/3G/4G/5G; IES 2022)
- HEALTH SERVICES:
 - consulting_center: if having at least a consulting_center (TRUE/FALSE; IES 2022)
 - time_to_consulting_center (minutes; IES 2022; calculated)
 - cap_consulting_center: municipality of nearest consulting_center ("00000"; IES 2022; calculated)
 - health_center: if having at least a health_center (TRUE/FALSE; IES 2022)
 - time_to_health_center (minutes; IES 2022; calculated)
 - cap_health_center: municipality of nearest health_center ("00000"; IES 2022; calculated)
 - specialized_center: if having at least a specialized_center (TRUE/FALSE; IES 2022)
 - time_to_specialized_center (minutes; IES 2022; calculated)
 - cap_specialized_center: municipality of nearest specialized_center ("00000"; IES 2022; calculated)
 - hospital: if having a hospital (TRUE/FALSE; IES 2022)
 - time_to_hospital (minutes; IES 2022; calculated)
 - cap_hospital: municipality of nearest hospital ("00000"; IES 2022; calculated)
 - women_center: if having at least a women_center (TRUE/FALSE; IES 2022)
 - time_to_women_center (minutes; IES 2022; calculated)
 - cap_women_center: municipality of nearest women_center ("00000"; IES 2022; calculated)
- EDUCATION SERVICES:
 - education: level of education service (none/primary/secondary/university; IES 2022)
 - primary: if having at least a primary school (TRUE/FALSE; IES 2022)
 - time_to_primary (minutes; IES 2022; calculated)
 - cap_primary: municipality of nearest primary school ("00000"; IES 2022; calculated)
 - secondary: if having at least a secondary school (TRUE/FALSE; IES 2022)
 - time_to_secondary (minutes; IES 2022; calculated)
 - cap_secondary: municipality of nearest secondary school ("00000"; IES 2022; calculated)
 - university: if having at least a university (TRUE/FALSE; IES 2022)
 - time_to_university (minutes; IES 2022; calculated)
 - cap_university: municipality of nearest university ("00000"; IES 2022; calculated)

- library: if having at least a library (TRUE/FALSE; IES 2022)
- time_to_library (minutes; IES 2022; calculated)
- cap_library: municipality of nearest library ("00000"; IES 2022; calculated)
- bookmobile: if having at least a bookmobile service (TRUE/FALSE; IES 2022)
- time_to_bookmobile (minutes; IES 2022; calculated)
- cap_bookmobile: municipality of nearest bookmobile service ("00000"; IES 2022; calculated)
- MANAGEMENT SERVICES:
 - bank: if having a bank office (TRUE/FALSE; IES 2022)
 - time_to_bank (minutes; IES 2022; calculated)
 - cap_bank: municipality of nearest bank office ("00000"; IES 2022; calculated)
 - employment_office: if having at least a employment_office (TRUE/FALSE; IES 2022)
 - time_to_employment_office (minutes; IES 2022; calculated)
 - cap_employment_office: municipality of nearest employment_office ("00000"; IES 2022; calculated)
 - lag: if having a lag office (TRUE/FALSE; IES 2022)
 - time_to_lag (minutes; IES 2022; calculated)
 - cap_lag: municipality of nearest lag ("00000"; IES 2022; calculated)
 - property_registry: if having a property registry office (TRUE/FALSE; IES 2022)
 - time_to_property_registry (minutes; IES 2022; calculated)
 - cap_property_registry: municipality of nearest property registry office ("00000"; IES 2022; calculated)
 - ITV: if having a ITV garage (TRUE/FALSE; IES 2022)
 - time_to_ITV (minutes; IES 2022; calculated)
 - cap_ITV: municipality of nearest ITV garage ("00000"; IES 2022; calculated)
- SECURITY & JUSTICE SERVICES:
 - police: if having a police office (TRUE/FALSE; IES 2022)
 - time_to_police (minutes; IES 2022; calculated)
 - cap_police (municipality of nearest police office; IES 2022; calculated)
 - civil_guard: if having a civil_guard (TRUE/FALSE; IES 2022)
 - time_to_civil_guard (minutes; IES 2022; calculated)
 - cap_civil_guard (municipality of nearest civil_guard; IES 2022; calculated)
 - fire_station: if having a fire_station (TRUE/FALSE; IES 2022)
 - time_to_fire_station (minutes; IES 2022; calculated)
 - cap_fire_station (municipality of nearest fire_station; IES 2022; calculated)
- TRANSPORT SERVICES:
 - train: if having a train station (TRUE/FALSE; RENFE 2023)
 - time_to_train (minutes; IES 2022; calculated)
 - cap_train (municipality of nearest train station; RENFE 2023; calculated)
 - bus: if having at least a bus route (TRUE/FALSE; JCCM 2022)
 - time_to_bus (minutes; JCCM 2022; calculated)
 - cap_bus (municipality of nearest fire_station; JCCM 2022; calculated)
 - bus_routes: number of bus routes (routes; JCCM 2022; calculated)
- ENVIRONMENT:
 - enp: if municipality has natural protected area (TRUE/FALSE)
 - enp_percentage: percentage of municipality being natural protected area
 - forest: if municipality has forest (TRUE/FALSE)
 - forest_percentage: percentage of municipality being forest
 - lic: if municipality has site of community importance (TRUE/FALSE)
 - lic_percentage: percentage of municipality being site of community importance
 - zepa: if municipality has special protection area (TRUE/FALSE)
 - zepa_percentage: percentage of municipality being special protection area
- MOBILITY:
 - population_day: population during the day (people; INE 2019)
 - mobility_out: population exiting during the day (people; INE 2019)

- mobility_in: population coming during the day (people; INE 2019)
- mobility_net: population coming minus exiting during the day (mobility_in - mobility_out; people; INE 2019)
- ratio_mobility: percentage of population during the day respect to population (%; INE 2019)
- mobility_out_perc: $\text{mobility_out} / \text{population} * 100$ (%; INE 2019)
- mobility_in_perc: $\text{mobility_in} / \text{population} * 100$ (%; INE 2019)
- mobility_net_perc: $\text{mobility_net_perc} / \text{population} * 100$ (%; INE 2019)
- SUMMARY SERVICES:
 - num_of_services: number of services provided by the municipality (own elaboration)
 - time_to_services: median of time (minutes) from the municipality to all services (own elaboration)
- SPATIAL:
 - geometry: polygon or multipolygon of municipality territory (sf object; INE 2022)

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