

JRC Dataset

UDP - Population weighted density, 2010 - 2050 (JRC LUISA Reference Scenario 2016)

Description:

Population weighted density refers to a metric which measures the density at which the average citizen lives. It is calculated by taking weighted average of the density of all parcels of land that make up a city, with each parcel weighted by its population (using the formula $D = \frac{\sum(P_i d_i)}{\sum P_i}$, where D is the population-weighted density of an metro area and P_i and d_i the respective population and density of each "parcels"). For this indicator, we extend this concept to larger geographical boundaries (LAU2 or country) and consider 1km pixels as "parcels". The unit of the indicator is person / km².

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Keywords:

City, Degurb, EU Reference Scenario 2016, FUA, LUISA, Metro, NUTS, Non-metro, Urban indicator, density, person/km², population

Related resources:

Data access

UDP - Population weighted density (Europe)

The download link contains the information at city, FUA, metro and non-metro regions, degree of urbanisation and country levels from 01-01-2010 to 01-01-2050 in the European Union. The data is stored in text/csv format.

https://cidportal.jrc.ec.europa.eu/ftp/jrc-opendata/LUISA/SecondaryOutput_Indicators/Europe/REF-2016/UDP/PWD/

UDP - Population weighted density (Danube)

The download link contains the information at city, FUA, metro and non-metro regions, degree of urbanisation and country levels from 01-01-2010 to 01-01-2050 in the European Union. The data is stored in text/csv format.

https://cidportal.jrc.ec.europa.eu/ftp/jrc-opendata/LUISA/SecondaryOutput_Indicators/Danube/REF-2016/UDP/PWD/

Publications

European cities: territorial analysis of characteristics and trends - An application of the LUISA Modelling Platform (EU Reference Scenario 2013 - Updated Configuration 2014)

Kompil M, Aurambout J, Ribeiro Barranco R, Barbosa A, Jacobs C, Pisoni E, Zulian G, Vandecasteele I, Trombetti M, Vizcaino M, Vallecillo Rodriguez S, Batista E Silva F, Baranzelli C, Mari Rivero I, Perpiña Castillo C, Polce C, Maes J, Lavalley C.

European cities: territorial analysis of characteristics and trends - An application of the LUISA Modelling Platform (EU Reference Scenario 2013 - Updated Configuration 2014). EUR 27709. Luxembourg (Luxembourg): Publications Office of the European Union; 2015. JRC100001

DOI:[10.2788/737963](https://doi.org/10.2788/737963)

The State of European cities 2016. Cities leading the way to a better future

European Commission, Directorate-General for Regional and Urban Policy; United Nations, Human Settlements Programme (2016): The State of European cities 2016. Cities leading the way to a better future. Publications Office of the European Union.

DOI:[10.2776/770065](https://doi.org/10.2776/770065)

Other resources

LUISA Territorial Modelling Platform

The LUISA Territorial Modelling Platform is primarily used for the ex-ante evaluation of EC policies that have a direct or indirect territorial impact

<https://ec.europa.eu/jrc/en/luisa>

Urban Data Platform

The Urban Data Platform is a joint initiative of the Directorate General Joint Research Centre (DG JRC) and the Directorate General for Regional and Urban Policy (DG REGIO) of the European Commission. It provides an access point to exchange information on the status and trends of European cities and regions. It visualizes data via maps at three different geographical units including EU-wide Cities/Greater Cities, Functional Urban Areas and Metropolitan Regions. It also includes time series graphs for selected cities, for Metropolitan Regions, and by degree of urbanisation.

<http://urban.jrc.ec.europa.eu>

Additional information:

Last Modified: 2015-12-01

Issue date: 2015-11-01

Landing page: <https://ec.europa.eu/jrc/en/territorial-policies>

Geographic area: European Union

Temporal coverage: From: 2010-01-01 – To: 2050-01-01

Update frequency: None

Language: English

Data theme(s): Health; Population and society; Science and technology

EuroVoc domain(s): 28 SOCIAL QUESTIONS; 36 SCIENCE

Identifier: <http://data.europa.eu/89h/jrc-luisa-udp-pwd-ref2016>