JRC Dataset

UI - Concentration of NO2 (LUISA Platform REF2014)

Description:
To simulate NO2 and PM10 at very high resolution (100 m), a Land Use Regression model (LUR) was built using pollutant concentrations for 2010 from monitoring sites as dependent variable and several other parameters (independent variables) were defined within a Geographic Information System (GIS). The LUR model was developed using Random Forest regression techniques (Breiman, 2001) and it was used to predict evolution of concentrations of pollutants from 2010 to 2050, according to predicted changes in land use and population density data from LUISA.

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Keywords:
EU Reference Scenario 2014, FUA, LUISA, LUR models, NO2, Urban indicator, air quality, nitrogen dioxide, pollution

Related resources:
Data access
UI - Concentration of NO2 (FUA)
The compressed zip file includes the attribute table with concentration of NO2, expressed in micrograms cubic meter (µg/m³), for Functional Urban Areas (FUAs), for 2010, 2020, 2030, 2040 and 2050. The data is stored in csv format.

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