

Indicator metadata: Territorial susceptibility to natural hazards

Composite indicator obtained with multivariate statistical techniques. Source indicators are: age of population; young-age dependency; old dependency; early leavers from education and training; risk of poverty and social exclusion; primary sector employments; unemployment rate; irrigable and irrigated areas.

The indicators are analysed using principle component analysis (PCA) and the first 6 factors are kept.

To obtain the indicators' weighting, firstly the square of the factor loadings is calculated after varimax rotation; the indicators with highest factor loadings are grouped into intermediate composite indicators; then those intermediate indicators are aggregated based on the proportion of variance explained; subsequently, the weights are computed according to the factor loadings across all factors; finally, the susceptibility is obtained using the geometric aggregation of the indicators with the obtained weights.

These are the sources and the preliminary processing of the eight source indicators:

Theme(s): Population and living conditions - Health and Safety - Environment and Energy - Population and Living Conditions

Introduction

Author: ESPON project (<https://www.espon.eu/natural-disasters>)

Contact(s):

- Tecnalia (Project leader)
- Carolina Cantergiani (Tecnalia) (Responsible party)

Territorial information:

Spatial Extent	Nomenclature		
	name	version	level
EU28+4	NUTS	2016	3

Years: 2018

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File

- Data (JSON, browse webservice) (/api/public/indicator-data/2225/)
- Metadata INSPIRE (XML) (/indicator/2225/metadata-inspire.xml)
- Metadata ESPON (printable) (/indicator/2225/metadata-espon/)
- Indicator package (CSV+XLS) (ZIP 106.9 KB) (/private-media/object/2225/ind_2225_sus_nh_csv.zip)
- Indicator package (SHAPE) (ZIP 1.3 MB) (/private-media/object/2225/ind_2225_sus_nh_shp.zip)
- Project package (all data of the related project) (/private-media/object/2304/project_titan-territorial-impacts-of-natural-disasters_sOgi5Tw.zip)

Right

- Constraints - Access classification: unclassified (default)
- Constraints - Use constraint: copyright (default)

Methodology

No description!

Other attributes

Id: 2225
Status: Key indicator

Name:	Territorial susceptibility to natural hazards
Code:	SUS_NH
Is standard?:	True
Is base indicator?:	False
Type:	Single
Data type:	Float
Unit of measure -	None
Numerator / Denominator	
Name:	
Unit of measure -	1
Numerator / Denominator	
Scale:	
Is a ranking?:	False
Main Theme:	Population and living conditions - Health and Safety - Environment and Energy - Population and Living Conditions
Nature type:	Composite
Labels:	None