

Indicator metadata: Knowledge Output

The indicator displays the knowledge output of a given region, benchmarked along ESPON space, as data availability allows. Innovation in the framework of the indicator is restricted to technical innovation via patent and trademark registration, thus not necessarily reflecting the status of social innovations. The composite indicator quantifies the innovation outputs undertaken for a given NUTS-3 region.

The synthetic indicator is composed of several sub-indicators which are individually picking up characteristics of the overall territorial dimensions in the framework innovative economic activities

Theme(s): Science and Technology - Science, Technology and Innovation

Introduction

Author: ESPON project (<https://www.espon.eu/TEVI>)

Contact(s):

- Erich Dallhammer (OIR) (Project leader)

Territorial information:

Nomenclature

Spatial Extent	name	version	level
EU28+4	NUTS	2013	3

Years: 2016

Completeness:

Year	Tunit	Area	GDP	Pop
2016	83	78		88

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File

- Data (JSON, browse webservice) (</api/public/indicator-data/1407/>)
- Metadata INSPIRE (XML) (</indicator/1407/metadata-inspire.xml>)
- Metadata ESPON (printable) (</indicator/1407/metadata-espon/>)
- Indicator package (SHAPE) (ZIP 1.4 MB) (/private-media/object/1407/ind_1407_knowoutp_shp.zip)
- Indicator package (CSV+XLS) (ZIP 111.8 KB) (/private-media/object/1407/ind_1407_knowoutp_csv.zip)
- Project package (all data of the related project) (/private-media/object/1530/project_tevi-territorial-evidence-support-of-european-territorial-cooperatio_XLrdvHf.zip)

Right

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

Methodology

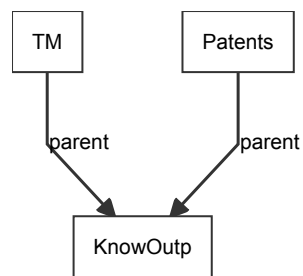
The synthetic indicator is composed of several sub-indicators which are individually picking up characteristics of the overall territorial dimensions in the framework of knowledge-intensive economic activities. The indicator is calculated in the following manner:

$$GVA_{(i,t)} = 1/2 * Y_{(i,t)} + 1/2 * E_{(i,t)}$$

In which the variable $Y_{(i,t)}$ represents normalised gross value added by knowledge intensive industries in region i and at time t , Analogously, $E_{(i,t)}$ represents normalised employment in a given region i and at time t .

Genealogy

Graph



Parents

- Trademark applications in the relevant sectors (/indicator/1412/)
- Patent application in the relevant sectors (/indicator/1416/)

Child

None!

Other attributes

Id:	1407
Status:	Key indicator
Name:	Knowledge Output
Code:	KnowOutp
Is standard?:	True
Is base indicator?:	False
Type:	Single
Data type:	Float
Unit of measure -	Normalised scale multiplied by a factor of 100
Numerator / Denominator	
Name:	
Unit of measure -	1
Numerator / Denominator	
Scale:	
Is a ranking?:	False
Main Theme:	Science and Technology - Science, Technology and Innovation
Nature type:	Other
Labels:	None