Package ‘iriR’

October 13, 2022

Title Global Innovation Through Company Level Data

Version 0.2.2

Description Researchers and analysts have access to more than 7,500 innovative companies worldwide, which are or have been part of the top 1,000 innovative companies. They can access the six parameters that compose the global IRI Scoreboard’s data on R&D: Country, Year, Company’s name, Industry, Indicator and Company’s rank. Please cite: Warin, Th. (2020) “iriR: An R Package for the EU Industrial R&D Investment Scoreboard”, <doi:10.6084/m9.figshare.11774640.v5>.

URL https://github.com/warint/iriR/

Imports gsheets, dplyr, reshape2, ggplot2, ggsci, WDI, scales, stats

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Encoding UTF-8

RoxygenNote 7.1.1

VignetteBuilder knitr

Suggests rmarkdown, knitr

NeedsCompilation no

Author Thierry Warin [aut, cre] (<https://orcid.org/0000-0002-5921-3428>)

Maintainer Thierry Warin <thierry.warin@hec.ca>

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### irir_company

**Description**

This function allows you to find and search the right company name associated with the Industrial Research and Innovation's Data. If no argument is filed, all names will be displayed.

**Usage**

`irir_company(company)`

**Arguments**

- `company` The name of a company.

**Value**

Company's name.

**See Also**

- `irir_country` for the IRI’s country code,
- `irir_indicator` for the IRI’s indicators,
- `irir_industry` for the IRI’s industries name and
- `irir_data` to collect the data.

**Examples**

```r
mycompany <- irir_company(company = "Samsung")
```

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### irir_country

**Description**

This function allows you to find and search the right country code associated with the Industrial Research and Innovation’s Data. If no argument is filed, all indicators will be displayed.

**Usage**

`irir_country(country)`

**Arguments**

- `country` The name of the country.
irir_data

Value

Country’s ISO code.

See Also

irir_indicator for the IRI’s indicators, irir_company for the IRI’s companies name, irir_industry for the IRI’s industries name and irir_data to collect the data.

Examples

mycountry <- irir_country(country = "Canada")

irir_data

irir_data

Description

This function allows you to find and display the Industrial R&D Investment Scoreboards (European Commission) data according to the selected parameters. If no arguments are filled, all data will be displayed.

Usage

irir_data(
  country = iri_country,
  years = iri_year,
  indicators = iri_indicator,
  company = iri_company,
  industry = iri_industry,
  ranks = iri_rank
)

Arguments

country
  Countries’ ISO code.
years
  Years for which you want the data.
indicators
  Indicators from the Industrial Research and Innovation.
company
  Companies for which you want the data.
industry
  Industries for which you want the data.
ranks
  Rank of a company.

Value

Data for the country, indicator, year, company, industrial sector and rank requested
See Also

`irir_indicator` for the IRI’s indicator symbol, `irir_country` for the country’s ISO code, `irir_company` for the IRI’s companies name and `irir_industry` for the IRI’s industries name.

Examples

```r
data <- irir_data(country = "USA", years = "2018", indicators = "RD.euro",
                   company = "FORD MOTOR", industry = "Automobile & Parts", rank = 14)
```

Description

This function allows you to find and search the right indicator code from the Industrial R&D Investment Scoreboard you want to use. If no argument is filed, all indicators will be displayed.

Usage

```r
irir_indicator(indicators)
```

Arguments

- `indicators` An indicator from the Industrial Research and Innovation.

Value

Indicator code from the Industrial Research and Innovation.

See Also

`irir_country` for the IRI’s country code, `irir_company` for the IRI’s companies name, `irir_industry` for the IRI’s industries name and `irir_data` to collect the data.

Examples

```r
myIndicator <- irir_indicator(indicators = "sales")
```
Description

This function allows you to find and search the right industry name associated with the Industrial Research and Innovation’s Data. If no argument is filed, all names will be displayed.

Usage

irir_industry(industry)

Arguments

industry The name of the industrial sector.

Value

Industry’s name.

See Also

irir_country for the IRI’s country code, irir_indicator for the IRI’s indicators, irir_company for the IRI’s companies name and irir_data to collect the data.

Examples

myindustry <- irir_industry(industry = "Automobile")

Description

This function allows you to create 3 sorts of visuals: line, bar and point charts.

Usage

irir_visual(
  country = "CAN",
  chart = "bar_1",
  title = TRUE,
  years = as.numeric(max(IRI_data$year))
)

Arguments

- **country**: The Country ISO code
- **chart**: Type of charts
- **title**: Chart title, set by default to TRUE
- **years**: Year, only works for bar chart and set by default to max year of IRI’s data

Value

Chosen Graph

See Also

- `irir_country` for the IRI’s country code, `irir_industry` for the IRI’s industries name, `irir_indicator` for the IRI’s indicators, `irir_company` for the IRI’s companies name and `irir_data` to collect the data.

Examples

```
irir_visual(country = "CAN", chart = "bar_1", title = TRUE, years = 2019)
```
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