

Package ‘iriR’

January 6, 2021

Type Package

Title Global Innovation Through Company Level Data

Version 0.2.1

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

LazyData true

RoxygenNote 7.1.1

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

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irir_company	<i>irir_company</i>
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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.
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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

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

irir_country	<i>irir_country</i>
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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.
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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")
```

<i>irir_data</i>	<i>irir_data</i>
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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

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

irir_indicator	<i>irir_indicator</i>
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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

```
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

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

irir_industry *irir_industry*

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")
```

irir_visual *irir_visual*

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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