

# Package ‘ineptR’

September 7, 2023

**Title** Wrapper for Statistics Portugal API

**Version** 0.2.1

**Description** Set of wrapper and helper functions to facilitate interaction with the Statistics Portugal (Instituto Nacional de Estatística - INE) API (<[https://www.ine.pt/xportal/xmain?xpid=INE&xpgid=ine\\_api&INST=322751522&xlang=en](https://www.ine.pt/xportal/xmain?xpid=INE&xpgid=ine_api&INST=322751522&xlang=en)>).

**License** MIT + file LICENSE

**URL** <https://c-matos.github.io/ineptR/>,  
<https://github.com/c-matos/ineptR>

**BugReports** <https://github.com/c-matos/ineptR/issues>

**Imports** dplyr, httr, httr2, lifecycle, magrittr, progressr, purrr, readr, stringr, tibble, tidyr

**Suggests** curl, rmarkdown, testthat (>= 3.0.0)

**Encoding** UTF-8

**RoxygenNote** 7.2.3

**Config/testthat/edition** 3

**NeedsCompilation** no

**Author** Carlos Matos [aut, cre, cph] (<<https://orcid.org/0000-0003-1134-0396>>)

**Maintainer** Carlos Matos <carlosmdmatos@gmail.com>

**Repository** CRAN

**Date/Publication** 2023-09-07 10:30:06 UTC

## R topics documented:

<code>get_dim_info</code>	2
<code>get_dim_values</code>	2
<code>get_ine_data</code>	3
<code>get_metadata</code>	4
<code>is_indicator_valid</code>	5

<b>Index</b>	<b>6</b>
--------------	----------

---

get_dim_info	<i>Get information about the dimensions of a given indicator</i>
--------------	--

---

### Description

**[Experimental]**

Get information about the dimensions of a given indicator

### Usage

```
get_dim_info(indicator, lang = "PT")
```

### Arguments

indicator	INE indicator ID as a 7 character string. Example: "0010003".
lang	One of "PT" or "EN". Default is "PT".

### Details

If the indicator is not valid, returns "(PT) O codigo do indicador nao existe. / (EN) The indicator code does not exist."

Calling `is_indicator_valid()` before using this function is recommended.

### Value

A data frame with `dim_num` (dimension number), `abr` (dimension description) and `versao` (dimension version) for the selected indicator. A fourth column `'nota_dsg'` is present for some indicators, with additional notes about the dimensions.

### Examples

```
get_dim_info("0011823", lang = "EN")
```

---

get_dim_values	<i>Get the set of possible values for all dimensions of the indicator</i>
----------------	---

---

### Description

**[Experimental]**

Get the set of possible values for all dimensions of the indicator

### Usage

```
get_dim_values(indicator, lang = "PT")
```

**Arguments**

indicator        INE indicator ID as a 7 character string. Example: "0010003".  
 lang            One of "PT" or "EN". Default is "PT".

**Details**

If the indicator is not valid, returns "(PT) O código do indicador não existe. / (EN) The indicator code does not exist."

Calling `is_indicator_valid()` before using this function is recommended.

**Value**

A tidy data frame with `dim_num` (dimension number), `cat_id` (dimension description), `categ_cod`, `categ_dsg` (Category description), `categ_ord` (order in which the category appears in the website), `categ_nivel` (hierarchical order) and `value_id` (id row for this data frame) for the selected indicator.

**Examples**

```
get_dim_values("0011823")
```

---

get\_ine\_data

*Get data from the INE API*

---

**Description****[Experimental]**

Return tidy data frames from Instituto Nacional de Estatística API

**Usage**

```
get_ine_data(  
  indicator,  
  lang = "PT",  
  expected.duration = FALSE,  
  max_cells = 30000,  
  ...  
)
```

**Arguments**

indicator        INE indicator ID as a 7 character string. Example: "0010003".  
 lang            One of "PT" or "EN". Default is "PT".  
 expected.duration        If TRUE, prints the expected remaining duration in the console.  
 max\_cells        Integer smaller than or equal to 40000, the maximum number of cells allowed in each API call. Default value of 30000

... Values for each Dimension of the indicator. Each parameter should be in the form dimN, with N one of {1, ..., N° of dimensions}. If one of the dimensions is not included, output includes all values for that dimension.

### Details

Extraction time can be very high (many hours) for indicators with many dimensions and/or many unique values. E.g. Indicator "0008206 - Deaths by Place of residence, Sex, Age group and Death cause, Annual" will take many hours to extract.

### Value

tidy data frame for the given indicator.

### See Also

[get\\_dim\\_values\(\)](#) can be used to identify the values to be passed to *dimN* parameters, in the variable `categ_cod`. See [this vignette](#) for further clarification on how to obtain only a subset of the data.

### Examples

```
#A simple example. Returns the complete dataset.
get_ine_data("0011823")
# A more complex example. Returns a subset of the dataset.

get_ine_data("0008206", dim1 = "S7A1996", dim2 = c("11", "111"),
            dim4 = c(1,19), dim5 = "TLES")
```

---

get\_metadata

*Get indicator metadata*

---

### Description

#### [Experimental]

Get metadata for the selected indicator from the INE API

Be aware that this function will still return a value and not throw an error if the indicator does not exist.

### Usage

```
get_metadata(indicator, lang = "PT")
```

### Arguments

indicator	INE indicator ID as a 7 character string. Example: "0010003".
lang	One of "PT" or "EN". Default is "PT".

**Value**

API response body as list.

**See Also**

`is_indicator_valid()` can be used to check if the indicator is valid before calling this function.

**Examples**

```
get_metadata("0011823")
```

---

is_indicator_valid	<i>Check if indicator exists</i>
--------------------	----------------------------------

---

**Description**

**[Experimental]**

Check if the indicator exists and is callable via the INE API.

Indicator ID can be found in the url under the 'indOcorrCod' query parameter when browsing the website.

Example: [https://www.ine.pt/xportal/xmain?xpid=INE&xpgid=ine\\_indicadores&indOcorrCod=0010003&contexto=bd&sel](https://www.ine.pt/xportal/xmain?xpid=INE&xpgid=ine_indicadores&indOcorrCod=0010003&contexto=bd&sel)

**Usage**

```
is_indicator_valid(indicator, lang = "PT")
```

**Arguments**

indicator	INE indicator ID as a 7 character string. Example: "0010003".
lang	One of "PT" or "EN". Default is "PT".

**Value**

TRUE if indicator exists, otherwise FALSE.

**Examples**

```
is_indicator_valid("0011823")
```

# Index

`get_dim_info`, 2  
`get_dim_values`, 2  
`get_dim_values()`, 4  
`get_ine_data`, 3  
`get_metadata`, 4  
  
`is_indicator_valid`, 5  
`is_indicator_valid()`, 5