Package 'obrasgovr'

October 29, 2026

Title Access the 'ObrasGov' Open Data API

Version 0.1.1

Description Provides a modern interface to the Brazilian federal government's 'ObrasGov' open data application programming interface (<https://api-publica.obrasgov.gestao.gov.br>). Retrieves data about public infrastructure projects, physical execution, contracts, commitments, geometries, feasibility studies, and project status histories. Results are returned as tidy tibbles with typed date columns, preserved nested relationships, pagination metadata, and optional multi-page collection.

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URL https://github.com/StrategicProjects/obrasgovr, https://strategicprojects.github.io/obrasgovr/, https://api-publica.obrasgov.gestao.gov.br/obras/docs

BugReports https://github.com/StrategicProjects/obrasgovr/issues

Depends R (>= 4.1.0)

Imports cli, httr2 (>= 1.2.2), purrr (>= 1.0.0), rlang (>= 1.1.0), tibble (>= 3.2.0), utils

Suggests covr, dplyr, knitr, rmarkdown, testthat (>= 3.2.0), tidyr

VignetteBuilder knitr

Config/Needs/website pkgdown

Config/testthat/edition 3

Encoding UTF-8

Language en-US

Config/roxygen2/version 8.0.0

NeedsCompilation no

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Repository CRAN

Date/Publication 2026-10-29 01:00:02 UTC

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`get_commitments` *Retrieve budget commitments*

Description

Retrieve budget commitments

Usage

```
get_commitments(
  ...,
  page = 1L,
  page_size = 50L,
  all_pages = FALSE,
  page_limit = Inf,
  base_url = .obrasgovr_base_url()
)

obter_empenhos(
  ...,
  pagina = 1L,
  tamanho_da_pagina = 50L,
  todas_paginas = FALSE,
```

```
  limite_paginas = Inf,
  base_url = .obrasgovr_base_url()
)
```

Arguments

`...`	Named filters. See `list_filters("commitments")`.
`page`	First page to retrieve, starting at 1.
`page_size`	Number of records per page, between 1 and 200.
`all_pages`	If `TRUE`, retrieves successive pages starting at `page`.
`page_limit`	Maximum number of pages to retrieve when `all_pages` is `TRUE`. Use `Inf` to retrieve every available page.
`base_url`	HTTPS base URL. By default, uses the `obrasgovr.base_url` option or the official API environment.
`pagina`, `tamanho_da_pagina`, `todas_paginas`, `limite_paginas`	Portuguese aliases for `page`, `page_size`, `all_pages`, and `page_limit`, respectively. These arguments are available only in the Portuguese function alias.

Value

A tibble containing budget commitments and financial execution amounts.

See Also

Other API resources: `get_contracts()`, `get_feasibility_studies()`, `get_geometries()`, `get_last_update()`, `get_physical_execution()`, `get_projects()`, `get_status_history()`

Examples

```
if (interactive()) {
  get_commitments(id_projeto_investimento = "134851.26-07")
}
```

---

get_contracts *Retrieve contracts*

Description

Retrieve contracts

Usage

```
get_contracts(
  ...,
  page = 1L,
  page_size = 50L,
  all_pages = FALSE,
  page_limit = Inf,
  base_url = .obrasgovr_base_url()
)

obter_contratos(
  ...,
  pagina = 1L,
  tamanho_da_pagina = 50L,
  todas_paginas = FALSE,
  limite_paginas = Inf,
  base_url = .obrasgovr_base_url()
)
```

Arguments

`...`	Named filters. See `list_filters("contracts")`.
`page`	First page to retrieve, starting at 1.
`page_size`	Number of records per page, between 1 and 200.
`all_pages`	If `TRUE`, retrieves successive pages starting at `page`.
`page_limit`	Maximum number of pages to retrieve when `all_pages` is `TRUE`. Use `Inf` to retrieve every available page.
`base_url`	HTTPS base URL. By default, uses the `obrasgovr.base_url` option or the official API environment.
`pagina`, `tamanho_da_pagina`, `todas_paginas`, `limite_paginas`	Portuguese aliases for `page`, `page_size`, `all_pages`, and `page_limit`, respectively. These arguments are available only in the Portuguese function alias.

Value

A tibble containing contracts linked to infrastructure projects.

See Also

Other API resources: `get_commitments()`, `get_feasibility_studies()`, `get_geometries()`, `get_last_update()`, `get_physical_execution()`, `get_projects()`, `get_status_history()`

Examples

```
if (interactive()) {
  get_contracts(id_projeto_investimento = "134851.26-07")
}
```

`get_feasibility_studies` *Retrieve feasibility studies*

Description

Retrieve feasibility studies

Usage

```
get_feasibility_studies(
  ...,
  page = 1L,
  page_size = 50L,
  all_pages = FALSE,
  page_limit = Inf,
  base_url = .obrasgovr_base_url()
)

obter_estudos_viabilidade(
  ...,
  pagina = 1L,
  tamanho_da_pagina = 50L,
  todas_paginas = FALSE,
  limite_paginas = Inf,
  base_url = .obrasgovr_base_url()
)
```

Arguments

`...`	Named filters. See `list_filters("feasibility_studies")`.
`page`	First page to retrieve, starting at 1.
`page_size`	Number of records per page, between 1 and 200.
`all_pages`	If `TRUE`, retrieves successive pages starting at `page`.
`page_limit`	Maximum number of pages to retrieve when `all_pages` is `TRUE`. Use `Inf` to retrieve every available page.
`base_url`	HTTPS base URL. By default, uses the `obrasgovr.base_url` option or the official API environment.
`pagina`, `tamanho_da_pagina`, `todas_paginas`, `limite_paginas`	Portuguese aliases for `page`, `page_size`, `all_pages`, and `page_limit`, respectively. These arguments are available only in the Portuguese function alias.

Value

A tibble containing feasibility studies linked to projects.

See Also

Other API resources: `get_commitments()`, `get_contracts()`, `get_geometries()`, `get_last_update()`, `get_physical_execution()`, `get_projects()`, `get_status_history()`

Examples

```
if (interactive()) {
  get_feasibility_studies(id_projeto_investimento = "134851.26-07")
}
```

`get_geometries` *Retrieve geometries*

Description

Retrieve geometries

Usage

```
get_geometries(
  ...,
  page = 1L,
  page_size = 50L,
  all_pages = FALSE,
  page_limit = Inf,
  base_url = .obrasgovr_base_url()
)

obter_geometrias(
  ...,
  pagina = 1L,
  tamanho_da_pagina = 50L,
  todas_paginas = FALSE,
  limite_paginas = Inf,
  base_url = .obrasgovr_base_url()
)
```

Arguments

`...`	Named filters. See `list_filters("geometries")`.
`page`	First page to retrieve, starting at 1.
`page_size`	Number of records per page, between 1 and 200.
`all_pages`	If `TRUE`, retrieves successive pages starting at `page`.
`page_limit`	Maximum number of pages to retrieve when `all_pages` is `TRUE`. Use `Inf` to retrieve every available page.

base_url HTTPS base URL. By default, uses the obrasgovr.base_url option or the official API environment.

pagina, tamanho_da_pagina, todas_paginas, limite_paginas
Portuguese aliases for page, page_size, all_pages, and page_limit, respectively. These arguments are available only in the Portuguese function alias.

Value

A tibble containing geometries and territorial identifiers.

See Also

Other API resources: get_commitments(), get_contracts(), get_feasibility_studies(), get_last_update(), get_physical_execution(), get_projects(), get_status_history()

Examples

```
if (interactive()) {
  get_geometries(sg_uf = "PE", page_size = 10)
}
```

---

get_last_update *Retrieve the data update timestamp*

Description

Retrieve the data update timestamp

Usage

```
get_last_update(base_url = .obrasgovr_base_url())

obter_data_atualizacao(base_url = .obrasgovr_base_url())
```

Arguments

base_url HTTPS base URL. By default, uses the obrasgovr.base_url option or the official API environment.

Value

A POSIXct value in the UTC time zone.

See Also

Other API resources: get_commitments(), get_contracts(), get_feasibility_studies(), get_geometries(), get_physical_execution(), get_projects(), get_status_history()

Examples

```
if (interactive()) {
  get_last_update()
}
```

`get_physical_execution` *Retrieve physical execution data*

Description

Retrieve physical execution data

Usage

```
get_physical_execution(
  ...,
  page = 1L,
  page_size = 50L,
  all_pages = FALSE,
  page_limit = Inf,
  base_url = .obrasgovr_base_url()
)

obter_execucao_fisica(
  ...,
  pagina = 1L,
  tamanho_da_pagina = 50L,
  todas_paginas = FALSE,
  limite_paginas = Inf,
  base_url = .obrasgovr_base_url()
)
```

Arguments

`...`	Named filters. See `list_filters("physical_execution")`.
`page`	First page to retrieve, starting at 1.
`page_size`	Number of records per page, between 1 and 200.
`all_pages`	If `TRUE`, retrieves successive pages starting at `page`.
`page_limit`	Maximum number of pages to retrieve when `all_pages` is `TRUE`. Use `Inf` to retrieve every available page.
`base_url`	HTTPS base URL. By default, uses the `obrasgovr.base_url` option or the official API environment.
`pagina`, `tamanho_da_pagina`, `todas_paginas`, `limite_paginas`	Portuguese aliases for `page`, `page_size`, `all_pages`, and `page_limit`, respectively. These arguments are available only in the Portuguese function alias.

Value

A tibble containing execution percentages, instruments, and dates.

See Also

Other API resources: `get_commitments()`, `get_contracts()`, `get_feasibility_studies()`, `get_geometries()`, `get_last_update()`, `get_projects()`, `get_status_history()`

Examples

```
if (interactive()) {
  get_physical_execution(id_projeto_investimento = "134851.26-07")
}
```

`get_projects` *Retrieve infrastructure projects*

Description

Retrieves infrastructure projects and their nested relationships, including executors, recipients, funding sources, policy areas, and point geometries.

Usage

```
get_projects(
  ...,
  page = 1L,
  page_size = 50L,
  all_pages = FALSE,
  page_limit = Inf,
  base_url = .obrasgovr_base_url()
)

obter_projetos(
  ...,
  pagina = 1L,
  tamanho_da_pagina = 50L,
  todas_paginas = FALSE,
  limite_paginas = Inf,
  base_url = .obrasgovr_base_url()
)
```

Arguments

`...`	Named filters accepted by the resource. See the complete list with `list_filters("projects")`. Filter names and categorical values are kept in Portuguese because they are defined by the ObrasGov API.

page	First page to retrieve, starting at 1.
page_size	Number of records per page, between 1 and 200.
all_pages	If TRUE, retrieves successive pages starting at page.
page_limit	Maximum number of pages to retrieve when all_pages is TRUE. Use Inf to retrieve every available page.
base_url	HTTPS base URL. By default, uses the obrasgovr.base_url option or the official API environment.
pagina, tamanho_da_pagina, todas_paginas, limite_paginas	Portuguese aliases for page, page_size, all_pages, and page_limit, respectively. These arguments are available only in the Portuguese function alias.

Value

A tibble. One-to-many relationships are preserved in list-columns. Use result_metadata() to inspect pagination information.

See Also

Other API resources: get_commitments(), get_contracts(), get_feasibility_studies(), get_geometries(), get_last_update(), get_physical_execution(), get_status_history()

Examples

```
if (interactive()) {
  get_projects(uf_principal = "PE", page_size = 10)
}
```

---

get_status_history *Retrieve project status histories*

Description

Retrieves the histories of cancelled or suspended projects, including reasons and remedial actions.

Usage

```
get_status_history(
  ...,
  page = 1L,
  page_size = 50L,
  all_pages = FALSE,
  page_limit = Inf,
  base_url = .obrasgovr_base_url()
)

obter_historico_situacao(
  ...,
```

```
  pagina = 1L,
  tamanho_da_pagina = 50L,
  todas_paginas = FALSE,
  limite_paginas = Inf,
  base_url = .obrasgovr_base_url()
)
```

Arguments

`...`	Named filters. See `list_filters("status_history")`.
`page`	First page to retrieve, starting at 1.
`page_size`	Number of records per page, between 1 and 200.
`all_pages`	If `TRUE`, retrieves successive pages starting at `page`.
`page_limit`	Maximum number of pages to retrieve when `all_pages` is `TRUE`. Use `Inf` to retrieve every available page.
`base_url`	HTTPS base URL. By default, uses the `obrasgovr.base_url` option or the official API environment.
`pagina, tamanho_da_pagina, todas_paginas, limite_paginas`	Portuguese aliases for `page`, `page_size`, `all_pages`, and `page_limit`, respectively. These arguments are available only in the Portuguese function alias.

Value

A tibble containing project status histories.

See Also

Other API resources: `get_commitments()`, `get_contracts()`, `get_feasibility_studies()`, `get_geometries()`, `get_last_update()`, `get_physical_execution()`, `get_projects()`

Examples

```
if (interactive()) {
  get_status_history(id_projeto_investimento = "134851.26-07")
}
```

---

list_filters *List filters accepted by a resource*

Description

Lists the filters published in the OpenAPI contract supported by this package. Unknown filters are rejected before a request is sent to prevent silently incorrect queries. Filter names and categorical values remain in Portuguese because they are part of the upstream API contract.

Usage

```
list_filters(resource)

obrasgov_filtros(recurso)
```

Arguments

resource	A resource name returned by list_resources(). Portuguese resource names used by earlier package versions are also accepted.
recurso	Portuguese alias for resource, available only in obrasgov_filtros().

Value

A tibble containing filter names, expected types, and allowed values when applicable.

Examples

```
list_filters("projects")
```

---

list_resources *List available ObrasGov API resources*

Description

List available ObrasGov API resources

Usage

```
list_resources()

obrasgov_recursos()
```

Value

A tibble containing each resource name, its corresponding function, API endpoint, and whether it is paginated.

Examples

```
list_resources()
```

`result_metadata` *Retrieve pagination metadata*

Description

Retrieve pagination metadata

Usage

```
result_metadata(x)

obrasgov_metadados(x)
```

Arguments

`x`	A tibble returned by a paginated package function.

Value

A list containing the resource, totals reported by the API, and retrieved pages; `NULL` for other objects.

Examples

```
result_metadata(tibble::tibble())
```

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