

# Package ‘r2dii.data’

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**Title** Datasets to Align Financial Markets with Climate Goals

**Version** 0.1.9

**Description** These datasets support the implementation in R of the software 'PACTA' (Paris Agreement Capital Transition Assessment), which is a free tool that calculates the alignment between financial assets and climate scenarios (<<https://2degrees-investing.org/>>). Financial institutions use 'PACTA' to study how their capital allocation impacts the climate. Because both financial institutions and market data providers keep their data private, this package provides fake, public data to enable the development and use of 'PACTA' in R.

**License** CC0

**URL** <https://2degreesinvesting.github.io/r2dii.data/>,  
<https://github.com/2DegreesInvesting/r2dii.data>

**BugReports** <https://github.com/2DegreesInvesting/r2dii.data/issues>

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## R topics documented:

ald_demo . . . . .	2
cnb_classification . . . . .	3
co2_intensity_scenario_demo . . . . .	4
data_dictionary . . . . .	5
gics_classification . . . . .	6
green_or_brown . . . . .	7
isic_classification . . . . .	7
iso_codes . . . . .	8
loanbook_demo . . . . .	9
nace_classification . . . . .	10
naics_classification . . . . .	11
overwrite_demo . . . . .	12
psic_classification . . . . .	13
region_isos . . . . .	14
region_isos_demo . . . . .	15
scenario_demo_2020 . . . . .	16
sector_classifications . . . . .	17
sic_classification . . . . .	18
<b>Index</b>	<b>19</b>

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ald_demo	<i>An asset level dataset for demonstration</i>
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### Description

Fake data about physical assets (e.g. wind turbine power plant capacities) used to assess the climate alignment of financial portfolios. It imitates data from market-intelligence databases.

Demo datasets are synthetic because most financial data is strictly private; they help to demonstrate and test the implementation in R of 'PACTA' (<https://2degrees-investing.org/resource/pacta/>).

### Usage

```
ald_demo
```

### Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 17468 rows and 14 columns.

## Definitions

- `ald_emission_factor_unit` (character): The units that the emission factor is measured in.
- `ald_timestamp` (character): Date at which asset data was sourced from the data provider.
- `country_of_domicile` (character): Country where company is registered.
- `emission_factor` (double): Company level emission factor of the technology.
- `id_company` (character): The id of the company owning the asset created by the data provider.
- `is_ultimate_listed_owner` (logical): Flag if company is the listed ultimate parent.
- `is_ultimate_owner` (logical): Flag if company is the ultimate parent in our database.
- `name_company` (character): The name of the company owning the asset.
- `plant_location` (character): Country where asset is located.
- `production` (double): Company level production of the technology.
- `production_unit` (character): The units that production is measured in.
- `sector` (character): Sector to which the asset belongs.
- `technology` (character): Technology implemented by the asset.
- `year` (integer): Year at which the production value is predicted.

## See Also

[data\\_dictionary](#)

Other demo datasets: [co2\\_intensity\\_scenario\\_demo](#), [loanbook\\_demo](#), [overwrite\\_demo](#), [region\\_isos\\_demo](#), [scenario\\_demo\\_2020](#)

## Examples

```
head(ald_demo)
```

---

<code>cnb_classification</code>	<i>Dataset to bridge (translate) common sector-classification codes</i>
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---

## Description

This dataset serves as a translation key between common sector-classification systems and sectors relevant to the 'PACTA' tool (<https://2degrees-investing.org/resource/pacta/>).

## Usage

```
cnb_classification
```

## Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 220 rows and 5 columns.

## Definitions

- `borderline` (logical): Flag indicating if 2dii sector and classification code are a borderline match. The value TRUE indicates that the match is uncertain between the 2dii sector and the classification. The value FALSE indicates that the match is certainly perfect or the classification is certainly out of 2dii's scope..
- `code` (double): Formatted CNB code.
- `code_level` (double): Level of granularity of CNB code.
- `original_code` (character): Original CNB sector name.
- `sector` (character): Associated 2dii sector.

## Details

Classification datasets help to standardize sector classification codes from the wild to a relevant subset including 'power', 'oil and gas', 'coal', 'automotive', 'aviation', 'concrete', 'steel', and 'shipping'.

## See Also

[data\\_dictionary](#).

Other datasets for bridging sector classification codes: [gics\\_classification](#), [isic\\_classification](#), [nace\\_classification](#), [naics\\_classification](#), [psic\\_classification](#), [sector\\_classifications](#), [sic\\_classification](#)

## Examples

```
head(cnb_classification)
```

---

```
co2_intensity_scenario_demo
```

*A prepared co2 intensity climate scenario dataset for demonstration*

---

## Description

Fake co2 intensity climate scenario dataset, prepared for the software PACTA (Paris Agreement Capital Transition Assessment). It imitates climate scenario data (e.g. from the International Energy Agency (IEA)) including the change through time in production across industrial sectors (calculated by 2DII).

Demo datasets are synthetic because most financial data is strictly private; they help to demonstrate and test the implementation in R of 'PACTA' (<https://2degrees-investing.org/resource/pacta/>).

## Usage

```
co2_intensity_scenario_demo
```

**Format**

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 22 rows and 7 columns.

**Definitions**

- `emission_factor` (double): The target sector level emissions factor that the scenario prescribes.
- `emission_factor_unit` (character): The units that the emissions factor is measured in.
- `region` (character): The region to which the pathway is relevant.
- `scenario` (character): The name of the scenario.
- `scenario_source` (character): The source publication from which the scenario was taken.
- `sector` (character): The sector to which the scenario prescribes a pathway.
- `year` (integer): The year at which the pathway value is prescribed.

**See Also**

[data\\_dictionary](#)

Other demo datasets: [ald\\_demo](#), [loanbook\\_demo](#), [overwrite\\_demo](#), [region\\_isos\\_demo](#), [scenario\\_demo\\_2020](#)

**Examples**

```
head(co2_intensity_scenario_demo)
```

---

data_dictionary	<i>Column definitions of all datasets</i>
-----------------	---

---

**Description**

This dataset provides metadata about all datasets in the package `r2dii.data`.

**Usage**

```
data_dictionary
```

**Format**

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 104 rows and 4 columns.

**Definitions**

- `column` (character): The name of a dataset-column.
- `dataset` (character): The name of a dataset.
- `definition` (character): The definition of a dataset-column.
- `typeof` (character): The result of `typeof()`, one of `double`, `integer`, `logical`, or `character`.

## Examples

```
head(data_dictionary)
```

---

`gics_classification` *Dataset to bridge (translate) common sector-classification codes*

---

## Description

This dataset serves as a translation key between common sector-classification systems and sectors relevant to the 'PACTA' tool (<https://2degrees-investing.org/resource/pacta/>).

## Usage

```
gics_classification
```

## Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 263 rows and 5 columns.

## Definitions

- `borderline` (logical): Flag indicating if 2dii sector and classification code are a borderline match. The value `TRUE` indicates that the match is uncertain between the 2dii sector and the classification. The value `FALSE` indicates that the match is certainly perfect or the classification is certainly out of 2dii's scope..
- `code` (double): Original GICS code.
- `code_level` (double): Level of granularity of GICS code.
- `description` (character): Original GICS description.
- `sector` (character): Associated 2dii sector.

## Details

Classification datasets help to standardize sector classification codes from the wild to a relevant subset including 'power', 'oil and gas', 'coal', 'automotive', 'aviation', 'concrete', 'steel', and 'shipping'.

## See Also

[data\\_dictionary](#).

Other datasets for bridging sector classification codes: [cnb\\_classification](#), [isic\\_classification](#), [nace\\_classification](#), [naics\\_classification](#), [psic\\_classification](#), [sector\\_classifications](#), [sic\\_classification](#)

## Examples

```
head(gics_classification)
```

---

green_or_brown	<i>Determine if a technology is green or brown</i>
----------------	--

---

**Description**

This dataset provides a simple lookup table to determine if a technology is meant to increase (green) or decrease (brown) to align with a future global warming of less than 2 degrees.

**Usage**

```
green_or_brown
```

**Format**

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 20 rows and 3 columns.

**Definitions**

- `green_or_brown` (character): If the technology is green (increasing) or brown (decreasing), as defined by the Paris-aligned IEA scenarios.
- `sector` (character): The sector to which the technology belongs.
- `technology` (character): The technology sub-category within the sector.

**See Also**

[data\\_dictionary](#)

**Examples**

```
head(green_or_brown)
```

---

isic_classification	<i>Dataset to bridge (translate) common sector-classification codes</i>
---------------------	---

---

**Description**

This dataset serves as a translation key between common sector-classification systems and sectors relevant to the 'PACTA' tool (<https://2degrees-investing.org/resource/pacta/>).

**Usage**

```
isic_classification
```

**Format**

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 768 rows and 4 columns.

**Definitions**

- `borderline` (logical): Flag indicating if 2dii sector and classification code are a borderline match. The value TRUE indicates that the match is uncertain between the 2dii sector and the classification. The value FALSE indicates that the match is certainly perfect or the classification is certainly out of 2dii's scope..
- `code` (character): Original ISIC code.
- `code_level` (double): Level of granularity of ISIC code.
- `sector` (character): Associated 2dii sector.

**Details**

Classification datasets help to standardize sector classification codes from the wild to a relevant subset including 'power', 'oil and gas', 'coal', 'automotive', 'aviation', 'concrete', 'steel', and 'shipping'.

**See Also**

[data\\_dictionary](#).

Other datasets for bridging sector classification codes: [cnb\\_classification](#), [gics\\_classification](#), [nace\\_classification](#), [naics\\_classification](#), [psic\\_classification](#), [sector\\_classifications](#), [sic\\_classification](#)

**Examples**

```
head(isic_classification)
```

---

iso\_codes

*Countries and codes*

---

**Description**

This dataset maps countries to codes.

For information about the ISO standard for country codes see <https://www.iso.org/iso-3166-country-codes.html>.

**Usage**

```
iso_codes
```

**Format**

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 286 rows and 2 columns.

**Definitions**

- `country` (character): Country name.
- `country_iso` (character): Corresponding ISO code.



**See Also**[data\\_dictionary](#)Other iso codes: [region\\_isos\\_demo](#), [region\\_isos](#)**Examples**

```
head(iso_codes)
```

---

loanbook_demo	<i>A loanbook dataset for demonstration</i>
---------------	---

---

**Description**

Fake financial portfolio.

Demo datasets are synthetic because most financial data is strictly private; they help to demonstrate and test the implementation in R of 'PACTA' (<https://2degrees-investing.org/resource/pacta/>).

**Usage**

```
loanbook_demo
```

**Format**

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 321 rows and 19 columns.

**Definitions**

- `fi_type` (character): Financial instrument name or asset class.
- `flag_project_finance_loan` (character): Project finance flag denoting whether a loan is given out to a particular asset or not.
- `id_direct_loantaker` (character): Borrower identifier unique to each borrower/sector combination in loanbook.
- `id_intermediate_parent_n` (character): Optional input: id of the n-th intermediate parent company within the company structure that can be used for more granular mapping than the ultimate parent. Smaller values of n are closer to the `direct_loantaker`.
- `id_loan` (character): Unique loan identifier.
- `id_ultimate_parent` (character): Ultimate parent identifier unique to each ultimate parent/sector combination.
- `isin_direct_loantaker` (logical): Optional input: providing the isin identifier of the direct loan taker to improve the matching coverage.
- `lei_direct_loantaker` (logical): Optional input: providing the lei (legal entity identifier) of the direct loan taker to improve the matching coverage.
- `loan_size_credit_limit` (double): Total credit limit or exposure at default.

- `loan_size_credit_limit_currency` (character): Currency corresponding to credit limit.
- `loan_size_outstanding` (double): Amount drawn by borrower from total credit limit.
- `loan_size_outstanding_currency` (character): Currency corresponding to outstandings.
- `name_direct_loantaker` (character): Name of the company directly taking the loan.
- `name_intermediate_parent_n` (character): Optional input: name of intermediate parent company within the company structure that can be used for more granular mapping than the ultimate parent. Smaller values of `n` are closer to the `direct_loantaker`.
- `name_project` (logical): Required input for loans with the flag `project_finance_loan = TRUE`: Name of the project being financed.
- `name_ultimate_parent` (character): Name of the ultimate parent company to which the borrower belongs. Can be the same as borrower.
- `sector_classification_direct_loantaker` (double): Sector classification code of the direct loantaker.
- `sector_classification_input_type` (character): Flag identifying if the sector classification code or character description is used.
- `sector_classification_system` (character): Name of the sector classification standard being used.

### See Also

[data\\_dictionary](#)

Other demo datasets: [ald\\_demo](#), [co2\\_intensity\\_scenario\\_demo](#), [overwrite\\_demo](#), [region\\_isos\\_demo](#), [scenario\\_demo\\_2020](#)

### Examples

```
head(loanbook_demo)
```

---

`nace_classification`     *Dataset to bridge (translate) common sector-classification codes*

---

### Description

This dataset serves as a translation key between common sector-classification systems and sectors relevant to the 'PACTA' tool (<https://2degrees-investing.org/resource/pacta/>).

### Usage

```
nace_classification
```

### Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 996 rows and 5 columns.

## Definitions

- `borderline` (logical): Flag indicating if 2dii sector and classification code are a borderline match. The value TRUE indicates that the match is uncertain between the 2dii sector and the classification. The value FALSE indicates that the match is certainly perfect or the classification is certainly out of 2dii's scope..
- `code` (double): Formatted NACE code with periods removed.
- `code_level` (double): Level of granularity of NACE code.
- `original_code` (character): Original NACE code.
- `sector` (character): Associated 2dii sector.

## Details

Classification datasets help to standardize sector classification codes from the wild to a relevant subset including 'power', 'oil and gas', 'coal', 'automotive', 'aviation', 'concrete', 'steel', and 'shipping'.

## See Also

[data\\_dictionary](#).

Other datasets for bridging sector classification codes: [cnb\\_classification](#), [gics\\_classification](#), [isic\\_classification](#), [naics\\_classification](#), [psic\\_classification](#), [sector\\_classifications](#), [sic\\_classification](#)

## Examples

```
head(nace_classification)
```

---

`naics_classification` *Dataset to bridge (translate) common sector-classification codes*

---

## Description

This dataset serves as a translation key between common sector-classification systems and sectors relevant to the 'PACTA' tool (<https://2degrees-investing.org/resource/pacta/>).

## Usage

```
naics_classification
```

## Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 1057 rows and 4 columns.

## Definitions

- `borderline` (logical): Flag indicating if 2dii sector and classification code are a borderline match. The value TRUE indicates that the match is uncertain between the 2dii sector and the classification. The value FALSE indicates that the match is certainly perfect or the classification is certainly out of 2dii's scope..
- `code` (double): Six-digit NAICS code.
- `naics_title` (character): Original NAICS sector title.
- `sector` (character): Associated 2dii sector.

## Details

Classification datasets help to standardize sector classification codes from the wild to a relevant subset including 'power', 'oil and gas', 'coal', 'automotive', 'aviation', 'concrete', 'steel', and 'shipping'.

## See Also

[data\\_dictionary](#).

Other datasets for bridging sector classification codes: [cnb\\_classification](#), [gics\\_classification](#), [isic\\_classification](#), [nace\\_classification](#), [psic\\_classification](#), [sector\\_classifications](#), [sic\\_classification](#)

## Examples

```
head(naics_classification)
```

---

overwrite_demo	<i>A demonstration dataset used to overwrite specific entity names or sectors</i>
----------------	---

---

## Description

Fake dataset used to manually link loanbook entities to mismatched asset level entities.

Demo datasets are synthetic because most financial data is strictly private; they help to demonstrate and test the implementation in R of 'PACTA' (<https://2degrees-investing.org/resource/pacta/>).

## Usage

```
overwrite_demo
```

## Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 2 rows and 5 columns.

## Definitions

- `id_2dii` (character): IDs of the entities to overwrite.
- `level` (character): Which level should be overwritten (e.g. `direct_loantaker` or `ultimate_parent`).
- `name` (character): Overwrite name (if only overwriting sector, type NA).
- `sector` (character): Overwrite sector (if only overwriting name, type NA).
- `source` (character): What is the source of this information (leave as "manual" for now, may remove this flag later).

## See Also

[data\\_dictionary](#)

Other demo datasets: [ald\\_demo](#), [co2\\_intensity\\_scenario\\_demo](#), [loanbook\\_demo](#), [region\\_isos\\_demo](#), [scenario\\_demo\\_2020](#)

## Examples

```
head(overwrite_demo)
```

---

<code>psic_classification</code>	<i>Dataset to bridge (translate) common sector-classification codes</i>
----------------------------------	---

---

## Description

This dataset serves as a translation key between common sector-classification systems and sectors relevant to the 'PACTA' tool (<https://2degrees-investing.org/resource/pacta/>).

## Usage

```
psic_classification
```

## Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 1271 rows and 5 columns.

## Definitions

- `borderline` (logical): Flag indicating if 2dii sector and classification code are a borderline match. The value `TRUE` indicates that the match is uncertain between the 2dii sector and the classification. The value `FALSE` indicates that the match is certainly perfect or the classification is certainly out of 2dii's scope..
- `code` (double): Formatted `psic_classification` code.
- `code_level` (double): Level of granularity of `psic_classification` code.
- `original_code` (character): Original `psic_classification` sector name.
- `sector` (character): Associated 2dii sector.

## Details

Classification datasets help to standardize sector classification codes from the wild to a relevant subset including 'power', 'oil and gas', 'coal', 'automotive', 'aviation', 'concrete', 'steel', and 'shipping'.

## See Also

[data\\_dictionary](#).

Other datasets for bridging sector classification codes: [cnb\\_classification](#), [gics\\_classification](#), [isic\\_classification](#), [nace\\_classification](#), [naics\\_classification](#), [sector\\_classifications](#), [sic\\_classification](#)

## Examples

```
head(psic_classification)
```

---

region_isos	<i>A dataset outlining various region definitions</i>
-------------	---

---

## Description

This dataset maps codes representing countries to regions.

For information about the ISO standard for country codes see <https://www.iso.org/iso-3166-country-codes.html>.

## Usage

```
region_isos
```

## Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 1805 rows and 3 columns.

## Definitions

- `isos` (character): Countries in region, defined by iso code.
- `region` (character): Benchmark region name.
- `source` (character): Source publication from which the regions are defined.

## See Also

[data\\_dictionary](#)

Other iso codes: [iso\\_codes](#), [region\\_isos\\_demo](#)

## Examples

```
head(region_isos)
```

---

region_isos_demo	<i>A dataset outlining various region definitions</i>
------------------	---

---

## Description

This dataset maps codes representing countries to regions. It is similar to but smaller than [region\\_isos](#).

Demo datasets are synthetic because most financial data is strictly private; they help to demonstrate and test the implementation in R of 'PACTA' (<https://2degrees-investing.org/resource/pacta/>).

For information about the ISO standard for country codes see <https://www.iso.org/iso-3166-country-codes.html>.

## Usage

```
region_isos_demo
```

## Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 358 rows and 3 columns.

## Definitions

- `isos` (character): Countries in region, defined by iso code.
- `region` (character): Benchmark region name.
- `source` (character): Source publication from which the regions are defined.

## See Also

Other iso codes: [iso\\_codes](#), [region\\_isos](#)

Other demo datasets: [ald\\_demo](#), [co2\\_intensity\\_scenario\\_demo](#), [loanbook\\_demo](#), [overwrite\\_demo](#), [scenario\\_demo\\_2020](#)

## Examples

```
region_isos_demo
```

---

scenario\_demo\_2020     *A prepared climate scenario dataset for demonstration*

---

## Description

Fake climate scenario dataset, prepared for the software PACTA (Paris Agreement Capital Transition Assessment). It imitates climate scenario data (e.g. from the International Energy Agency (IEA)) including the change through time in production across industrial sectors (calculated by 2DII).

Demo datasets are synthetic because most financial data is strictly private; they help to demonstrate and test the implementation in R of 'PACTA' (<https://2degrees-investing.org/resource/pacta/>).

## Usage

```
scenario_demo_2020
```

## Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 1323 rows and 8 columns.

## Definitions

- `region` (character): The region to which the pathway is relevant.
- `scenario` (character): The name of the scenario.
- `scenario_source` (character): The source publication from which the scenario was taken.
- `sector` (character): The sector to which the scenario prescribes a pathway.
- `smsp` (double): Sector market share percentage of the pathway calculated in 2020.
- `technology` (character): The technology within the sector to which the scenario prescribes a pathway.
- `tmsr` (double): Technology market share ratio of the pathway calculated in 2020.
- `year` (integer): The year at which the pathway value is prescribed.

## See Also

[data\\_dictionary](#)

Other demo datasets: [ald\\_demo](#), [co2\\_intensity\\_scenario\\_demo](#), [loanbook\\_demo](#), [overwrite\\_demo](#), [region\\_isos\\_demo](#)

## Examples

```
head(scenario_demo_2020)
```



---

`sector_classifications`*A view of available sector classification datasets*

---

**Description**

This dataset lists all sector classification code standards used by 'PACTA' (<https://2degrees-investing.org/resource/pacta/>).

**Usage**`sector_classifications`**Format**

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 4700 rows and 4 columns.

**Definitions**

- `borderline` (character): Flag indicating if 2dii sector and classification code are a borderline match. The value `TRUE` indicates that the match is uncertain between the 2dii sector and the classification. The value `FALSE` indicates that the match is certainly perfect or the classification is certainly out of 2dii's scope..
- `code` (character): Formatted code.
- `code_system` (character): Code system.
- `sector` (character): Associated 2dii sector.

**Details**

Classification datasets help to standardize sector classification codes from the wild to a relevant subset including 'power', 'oil and gas', 'coal', 'automotive', 'aviation', 'concrete', 'steel', and 'shipping'.

**See Also**

[data\\_dictionary](#).

Other datasets for bridging sector classification codes: [cnb\\_classification](#), [gics\\_classification](#), [isic\\_classification](#), [nace\\_classification](#), [naics\\_classification](#), [psic\\_classification](#), [sic\\_classification](#)

**Examples**

```
head(sector_classifications)
```

---

sic\_classification      *Dataset to bridge (translate) common sector-classification codes*

---

### Description

This dataset serves as a translation key between common sector-classification systems and sectors relevant to the 'PACTA' tool (<https://2degrees-investing.org/resource/pacta/>).

### Usage

```
sic_classification
```

### Format

An object of class `tbl_df` (inherits from `tbl`, `data.frame`) with 256 rows and 4 columns.

### Definitions

- `borderline` (character): Flag indicating if 2dii sector and classification code are a borderline match. The value `TRUE` indicates that the match is uncertain between the 2dii sector and the classification. The value `FALSE` indicates that the match is certainly perfect or the classification is certainly out of 2dii's scope..
- `code` (integer): Original SIC code.
- `description` (character): Original SIC description.
- `sector` (character): Associated 2dii sector.

### Details

Classification datasets help to standardize sector classification codes from the wild to a relevant subset including 'power', 'oil and gas', 'coal', 'automotive', 'aviation', 'concrete', 'steel', and 'shipping'.

### See Also

[data\\_dictionary](#).

Other datasets for bridging sector classification codes: [cnb\\_classification](#), [gics\\_classification](#), [isic\\_classification](#), [nace\\_classification](#), [naics\\_classification](#), [psic\\_classification](#), [sector\\_classifications](#)

### Examples

```
head(sic_classification)
```

# Index

## \* datasets for bridging sector classification

### codes

cnb\_classification, 3  
gics\_classification, 6  
isic\_classification, 7  
nace\_classification, 10  
naics\_classification, 11  
psic\_classification, 13  
sector\_classifications, 17  
sic\_classification, 18

### \* datasets

ald\_demo, 2  
cnb\_classification, 3  
co2\_intensity\_scenario\_demo, 4  
data\_dictionary, 5  
gics\_classification, 6  
green\_or\_brown, 7  
isic\_classification, 7  
iso\_codes, 8  
loanbook\_demo, 9  
nace\_classification, 10  
naics\_classification, 11  
overwrite\_demo, 12  
psic\_classification, 13  
region\_isos, 14  
region\_isos\_demo, 15  
scenario\_demo\_2020, 16  
sector\_classifications, 17  
sic\_classification, 18

### \* demo datasets

ald\_demo, 2  
co2\_intensity\_scenario\_demo, 4  
loanbook\_demo, 9  
overwrite\_demo, 12  
region\_isos\_demo, 15  
scenario\_demo\_2020, 16

### \* iso codes

iso\_codes, 8  
region\_isos, 14

region\_isos\_demo, 15

### \* meta

data\_dictionary, 5

### \* miscellaneous datasets

green\_or\_brown, 7

ald\_demo, 2, 5, 10, 13, 15, 16

cnb\_classification, 3, 6, 8, 11, 12, 14, 17,  
18

co2\_intensity\_scenario\_demo, 3, 4, 10, 13,  
15, 16

data\_dictionary, 3–5, 5, 6–14, 16–18

gics\_classification, 4, 6, 8, 11, 12, 14, 17,  
18

green\_or\_brown, 7

isic\_classification, 4, 6, 7, 11, 12, 14, 17,  
18

iso\_codes, 8, 14, 15

loanbook\_demo, 3, 5, 9, 13, 15, 16

nace\_classification, 4, 6, 8, 10, 12, 14, 17,  
18

naics\_classification, 4, 6, 8, 11, 11, 14,  
17, 18

overwrite\_demo, 3, 5, 10, 12, 15, 16

psic\_classification, 4, 6, 8, 11, 12, 13, 17,  
18

region\_isos, 9, 14, 15

region\_isos\_demo, 3, 5, 9, 10, 13, 14, 15, 16

scenario\_demo\_2020, 3, 5, 10, 13, 15, 16

sector\_classifications, 4, 6, 8, 11, 12, 14,  
17, 18

sic\_classification, 4, 6, 8, 11, 12, 14, 17,  
18