

# Package ‘PolicyPortfolios’

May 7, 2026

**Title** Tools for Managing, Measuring and Visualizing Policy Portfolios

**Description** Tools for simplifying the creation and management of data structures suitable for dealing with policy portfolios, that is, two-dimensional spaces of policy instruments and policy targets. The package also allows to generate measures of portfolio characteristics and facilitates their visualization.

**Version** 0.5

**Depends** R (>= 3.5), dplyr (>= 1.0),

**Imports** ggplot2, vegan, ineq, mgcv, reshape2,

**Suggests** testthat, devtools, rmarkdown, knitr, tidy,

**License** GPL-3

**URL** <http://xavier-fim.net/packages/PolicyPortfolios/>,  
<https://github.com/xfim/PolicyPortfolios>

**BugReports** <https://github.com/xfim/PolicyPortfolios/issues>

**Encoding** UTF-8

**RoxygenNote** 7.3.3

**VignetteBuilder** knitr

**NeedsCompilation** no

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## Contents

|                               |   |
|-------------------------------|---|
| accupol.instruments . . . . . | 2 |
| accupol.v1 . . . . .          | 3 |
| burden . . . . .              | 4 |
| configurations . . . . .      | 5 |

|                                 |           |
|---------------------------------|-----------|
| consensus . . . . .             | 5         |
| consensus.instruments . . . . . | 6         |
| consensus.targets . . . . .     | 7         |
| diversity_aid . . . . .         | 8         |
| P.education . . . . .           | 9         |
| P.energy . . . . .              | 10        |
| pass.id . . . . .               | 10        |
| pp_array . . . . .              | 11        |
| pp_clean . . . . .              | 12        |
| pp_complete . . . . .           | 14        |
| pp_measures . . . . .           | 15        |
| pp_plot . . . . .               | 16        |
| pp_report . . . . .             | 17        |
| pp_similarity . . . . .         | 18        |
| <b>Index</b>                    | <b>20</b> |

---

accupol.instruments     *Meta-data on Instruments for the dataset of the ACCUPOL research project.*

---

## Description

A tidy dataset of the characteristics of Instruments for the ACCUPOL research project.

## Usage

```
data(accupol.instruments)
```

## Format

A data frame (tibble) containing the characteristics of policy Targets (Instrument, instrument.id, Sector and Degree of intervention).

## Details

When using the dataset, please cite:

Fernández-i-Marín, X., Knill, C., Steinbacher, C., & Steinebach, Y. (2024). Bureaucratic quality and the gap between implementation burden and administrative capacities. *American Political Science Review*, 118(3), 1240-1260. doi:10.1017/S0003055423001090

## Source

Accupol research project (217239): <https://cordis.europa.eu/project/id/788941>

## References

Fernández-i-Marín, X., Knill, C., Steinbacher, C., & Steinebach, Y. (2024). Bureaucratic quality and the gap between implementation burden and administrative capacities. *American Political Science Review*, 118(3), 1240-1260. doi:10.1017/S0003055423001090

## See Also

[accupol.v1](#) for the full dataset.

## Examples

```
data(accupol.instruments)
str(accupol.instruments)
```

---

accupol.v1

*Policy portfolios for the dataset of the ACCUPOL research project.*

---

## Description

A tidy dataset of a policy portfolios in social and environmental policies for the ACCUPOL research project.

## Usage

```
data(accupol.v1)
```

## Format

A data frame (tibble) containing the coverage of state intervention in a specific policy space (presence = 1 or absence = 0) for the ACCUPOL research project. It covers 23 countries in two sectors (Environmental, with 49 Targets and 11 Instruments; and Social, with Targets and Instruments) between 1976 and 2018.

## Details

When using the dataset, please cite:

Fernández-i-Marín, X., Knill, C., Steinbacher, C., & Steinebach, Y. (2024). Bureaucratic quality and the gap between implementation burden and administrative capacities. *American Political Science Review*, 118(3), 1240-1260. doi:10.1017/S0003055423001090

## Source

Accupol research project (217239): <https://cordis.europa.eu/project/id/788941>

## References

Fernández-i-Marín, X., Knill, C., Steinbacher, C., & Steinebach, Y. (2024). Bureaucratic quality and the gap between implementation burden and administrative capacities. *American Political Science Review*, 118(3), 1240-1260. doi:10.1017/S0003055423001090

**See Also**

[accupol.instruments](#) for meta data about Instrument and Target metadata.

**Examples**

```
data(accupol.v1)
str(accupol.v1)
```

---

|        |   |
|--------|---|
| burden | <i>Calculate burden based on how different learning assumptions affect portfolio size</i> |
|--------|---|

---

**Description**

Internal function to calculate a transformation of portfolio size based on a non-regular assumption of how policy learning works at the instrument level. This generates a weighted portfolio size that can be understood as the "burden" of its size.

**Usage**

```
burden(M, nI, nT, learning, weight_by = "instrument")
```

**Arguments**

|           |   |
|-----------|---|
| M         | Matrix with the policy portfolio, where the first dimension contains instruments and the second contains targets.   |
| nI        | Integer with the number of Instruments.   |
| nT        | Integer with the number of Targets.   |
| learning  | The assumption of the decay of learning. It is either "continuous" (arithmetical decay), "steep" (geometrical decay) or "capped" (sudden decay and constant hereafter). |
| weight_by | By default learning assumptions are done on different instrument levels ("instrument"). But it is also possible to use Target levels when using "target".               |

**Details**

- Arithmetical: assumes a continuous learning. - Geometrical: assumes steep learning. - Radical: assumes capped learning.

This contrasts with the regular portfolio size that assumes no learning is produced between policy instruments.

**Value**

A value of burden (portfolio size using a different learning assumption).

---

|                |   |
|----------------|---|
| configurations | <i>Calculate a configuration of instruments</i> |
|----------------|---|

---

**Description**

Internal function used to assess the number of configurations of instruments. Configurations are specific combinations of instruments that may appear in different targets.

**Usage**

```
configurations(M)
```

**Arguments**

|   |   |
|---|---|
| M | Matrix with the policy portfolio, where the first dimension contains instruments and the second contains targets. |
|---|---|

**Value**

Vector with the distribution of configurations

---

|           |   |
|-----------|---|
| consensus | <i>Policy portfolios for the dataset of the CONSENSUS research project.</i> |
|-----------|---|

---

**Description**

A tidy dataset of a policy portfolios in social and environmental policies for the CONSENSUS research project.

**Usage**

```
data(consensus)
```

**Format**

A data frame (tibble) containing the coverage of state intervention in a specific policy space (presence = 1 or absence = 0) for the CONSENSUS research project. It covers 23 countries in two sectors (Environmental, with 49 Targets and 11 Instruments; and Social, with 19 Targets and 6 Instruments) between 1976 and 2005.

**Details**

When using the dataset, please cite:

Fernández-i-Marín, X., Knill, C. & Steinebach, Y. (2021). Studying Policy Design Quality in Comparative Perspective. *American Political Science Review*, online first.

Knill, C., Schulze, K. & Tosun, J. (2012). Regulatory Policy Outputs and Impacts. Exploring a Complex Relationship. *Regulation & Governance*, 5(4), 427-444. doi:10.1111/j.1748-5991.2012.01150.x.

**Source**

Consensus research project (217239): <https://cordis.europa.eu/project/id/217239>

**References**

Fernández-i-Marín, X., Knill, C. & Steinebach, Y. (2021). Studying Policy Design Quality in Comparative Perspective. *\_American Political Science Review\_*, online first.

Knill, C., Schulze, K. & Tosun, J. (2012). Regulatory Policy Outputs and Impacts. Exploring a Complex Relationship. *\_Regulation & Governance\_*, 5(4), 427-444. doi:10.1111/j.1748-5991.2012.01150.x.

**See Also**

[consensus.instruments](#) and [consensus.targets](#) for meta data about Instrument id and types, and Target id and Subsector.

**Examples**

```
data(consensus)
str(consensus)
```

---

consensus.instruments *Meta-data on Instruments for the dataset of the CONSENSUS research project.*

---

**Description**

A tidy dataset of the characteristics of Instruments in social and environmental policies for the CONSENSUS research project.

**Usage**

```
data(consensus.instruments)
```

**Format**

A data frame (tibble) containing the characteristics of Instruments, namely the Sector, the type of Instrument and the internal id in the original coding manual.

**Details**

When using the dataset, please cite:

Fernández-i-Marín, X., Knill, C. & Steinebach, Y. (2021). Studying Policy Design Quality in Comparative Perspective. *\_American Political Science Review\_*, online first.

Knill, C., Schulze, K. & Tosun, J. (2012). Regulatory Policy Outputs and Impacts. Exploring a Complex Relationship. *\_Regulation & Governance\_*, 5(4), 427-444. doi:10.1111/j.1748-5991.2012.01150.x.

**Source**

Consensus research project (217239): <https://cordis.europa.eu/project/id/217239>

**References**

Fernández-i-Marín, X., Knill, C. & Steinebach, Y. (2021). Studying Policy Design Quality in Comparative Perspective. *\_American Political Science Review\_*, online first.

Knill, C., Schulze, K. & Tosun, J. (2012). Regulatory Policy Outputs and Impacts. Exploring a Complex Relationship. *\_Regulation & Governance\_*, 5(4), 427-444. doi:10.1111/j.1748-5991.2012.01150.x.

**See Also**

[consensus](#) for the full dataset and [consensus.targets](#) for meta data about Target id and Subsector.

**Examples**

```
data(consensus.instruments)
str(consensus.instruments)
```

---

|                   |  |
|-------------------|--|
| consensus.targets | <i>Meta-data on Targets for the dataset of the CONSENSUS research project.</i> |
|-------------------|--|

---

**Description**

A tidy dataset of the characteristics of Targets in social and environmental policies for the CONSENSUS research project.

**Usage**

```
data(consensus.targets)
```

**Format**

A data frame (tibble) containing the characteristics of Targets, namely the Subsector and the internal id in the original coding manual.

**Details**

When using the dataset, please cite:

Fernández-i-Marín, X., Knill, C. & Steinebach, Y. (2021). Studying Policy Design Quality in Comparative Perspective. *\_American Political Science Review\_*, online first.

Knill, C., Schulze, K. & Tosun, J. (2012). Regulatory Policy Outputs and Impacts. Exploring a Complex Relationship. *\_Regulation & Governance\_*, 5(4), 427-444. doi:10.1111/j.1748-5991.2012.01150.x.

**Source**

Consensus research project (217239): <https://cordis.europa.eu/project/id/217239>

**References**

Fernández-i-Marín, X., Knill, C. & Steinebach, Y. (2021). Studying Policy Design Quality in Comparative Perspective. *\_American Political Science Review\_*, online first.

Knill, C., Schulze, K. & Tosun, J. (2012). Regulatory Policy Outputs and Impacts. Exploring a Complex Relationship. *\_Regulation & Governance\_*, 5(4), 427-444. doi:10.1111/j.1748-5991.2012.01150.x.

**See Also**

[consensus](#) for the full dataset and [consensus.instruments](#) for meta data about Instrument id and instrument type.

**Examples**

```
data(consensus.targets)
str(consensus.targets)
```

---

diversity\_aid

*Calculate portfolio diversity (Average Instrument Diversity)*

---

**Description**

Function used to calculate the diversity of a portfolio (Average Instrument Diversity, AID). It is adapted from the idea of a Gini-Simpson diversity index. The measure can be interpreted as the average probability that picking two policy spaces from different Targets, they use a different Instrument.

**Usage**

```
diversity_aid(M)
```

**Arguments**

M Matrix with two dimensions (Instrument, Target) containing absence (0) or presence (1) of policy intervention.

**Value**

A value of the portfolio diversity.

## Details

$$\forall_{t=1..T}, \forall_{i=1..I} \sum_{c=1}^C \frac{c_{t,i}}{C} = c_{t,i}$$

where:

T are the targets covered by at least one policy instrument I are the instruments addressing at least one policy target C are the entirety of target-instrument-constellations

It is applied only to matrices, not to tidy objects in a proper policy portfolio. For a proper treatment using tidy data, use it through `pp_measures()`.

## References

Fernández-i-Marín, X., Knill, C. & Steinebach, Y. (2021). Studying Policy Design Quality in Comparative Perspective. *\_\_American Political Science Review\_\_*, online first.

## Examples

```
data(consensus)
consensus %>%
  filter(Sector == "Environmental") %>%
  filter(Country %in% c("France", "United States")) %>%
  filter(Year %in% c(1976, 2005)) %>%
  pp_array() %>%
  apply(., c(1, 2, 3), diversity_aid) %>%
  as.vector() %>%
  round(digits = 3)
# 1976 (FR, US), 2005 (FR, US)
```

---

P.education

*Simulated policy portfolio with fake data for the education sector.*

---

## Description

A tidy dataset of a policy portfolio in an imaginary sector (education), containing 3 countries, 10 Instruments and 15 Targets, for 11 years.

## Usage

```
data(P.education)
```

## Format

A data frame (tibble) containing the coverage of state intervention in a specific policy space (presence = 1 or absence = 0).

**Examples**

```
data(P.education)
str(P.education)
```

---

P.energy

*Simulated policy portfolio with fake data for the energy sector.*

---

**Description**

A tidy dataset of a policy portfolio in an imaginary sector (energy), containing 3 countries, 15 Instruments and 25 Targets, for 11 years.

**Usage**

```
data(P.energy)
```

**Format**

A data frame (tibble) containing the coverage of state intervention in a specific policy space (presence = 1 or absence = 0).

**Examples**

```
data(P.energy)
str(P.energy)
```

---

pass.id

*Subset a full dataset with only certain cases (Country / Year)*

---

**Description**

Internal function used to select a subset of cases (Country / Sector / Year) from a tidy dataset with portfolio data. When subsetting a sector, the remaining object limits the results to the available Instruments and Sectors found in the original object.

**Usage**

```
pass.id(D, id = NULL)
```

**Arguments**

- D** Data frame in a tidy format with the following columns: "Country", "Sector", "Year", "Instrument", "Target" and "covered". "covered" is a binary identifier of whether the portfolio space is covered by policy intervention (1) or not (0). The remaining columns identify the case. Notice that "Year" is a numeric value, while the remaining 4 case identifiers are factors.
- id** A list with up to three elements, namely "Country", "Sector" and "Year" indicating the specific identification characteristics of the portfolio(s) that must be processed; and optionally "clean" (logical, FALSE by default) to remove non observed factor levels in Instruments, Targets, Country, Sector and Year.

**Value**

A Data frame (tibble) with a part of the original input, defined by id.

---

pp\_array *Convert a tidy dataset into a matrix of policy portfolios*

---

**Description**

Take a tidy dataset containing one or several policy portfolios and convert it into a matrix or an array.

**Usage**

```
pp_array(D, return_matrix = FALSE)
```

**Arguments**

- D** Data frame in a tidy format with the following columns: "Country", "Sector", "Year", "Instrument", "Target" and "covered". "covered" is a binary identifier of whether the portfolio space is covered by policy intervention (1) or not (0). The remaining columns identify the case. Notice that "Year" is a numeric value, while the remaining 4 case identifiers are factors.
- return\_matrix** Logical value indicating whether the output must be in the form of an array with Country, Sector and Year dimensions present (although equal to one), or a simplified matrix of Instruments and Targets. Defaults to FALSE.

**Value**

An array when return\_single is FALSE (the default), or a two-dimensional matrix with Instruments and Targets as first and second dimensions, respectively.

**Examples**

```

data(P.education)
# Returns an array
A <- pp_array(P.education)
dim(A)

# Returns a matrix
M <- pp_array(subset(P.education, Country == "Syldavia" & Year == 2022),
  return_matrix = TRUE)
dim(M)

```

pp\_clean

*Tidy a dataset with a "long" policy portfolio structure***Description**

Clean a policy portfolio dataset into a tidy object.

**Usage**

```

pp_clean(
  d,
  Sector = NULL,
  Country.name = "Country",
  Year.name = "Year",
  Instrument.name = "Instrument",
  Target.name = "Target",
  coding.category.name = "Coding category",
  coding.category = 2,
  Direction.name = "Direction",
  directions = c(0, 1, -1),
  associated.vars = NULL,
  date = FALSE,
  setting.direction = FALSE,
  debug = FALSE
)

```

**Arguments**

|              |  |
|--------------|--|
| d            | Data frame in an uncleaned and untidy structure containing data from a policy portfolio.     |
| Sector       | Character vector with the Sector of the dataset.   |
| Country.name | Character vector of length one with the name of the variable that contains the country name. |
| Year.name    | Character vector of length one with the name of the variable that contains the year.         |

|                      |  |
|----------------------|--|
| Instrument.name      | Character vector of length one with the name of the variable that contains the instruments.  |
| Target.name          | Character vector of length one with the name of the variable that contains the targets.  |
| coding.category.name | Character vector of length one with the name of the variable that contains the coding category.  |
| coding.category      | Numerical value with the level of the category that captures the combination of instrument and target.   |
| Direction.name       | Character vector of length one with the name of the variable that contains the direction of the policy change.   |
| directions           | Numerical vector with the numeric values of the direction of the policy changes, namely "Status quo", "Expansion" and "Dismantling". Defaults to, 0, 1 and -1, respectively.             |
| associated.vars      | Character vector indicating variables that contain characteristics of the policy space.  |
| date                 | By default, return Year as the only time indicator. If TRUE, return the full date with dd-mm-YYYY.   |
| setting.direction    | Logical. When TRUE, returns not a tidy object with the portfolio, but a summary of changes in the Setting (Level/Scope) and in the Direction (Expansion/Dismantling). Defaults to FALSE. |
| debug                | Logical value. When TRUE, print more verbose information about the cleaning process.   |

## Value

D Data frame in a tidy format with the following columns: "Country", "Sector", "Year", "Instrument", "Target" and "covered". "covered" is a binary identifier of whether the portfolio space is covered by policy intervention (1) or not (0). The remaining columns identify the case. Notice that "Year" is a numeric value, while the remaining 4 case identifiers are factors. When setting.direction = TRUE it returns a summary of changes in the Setting (Level/Scope) and in the Direction (Expansion/Dismantling).

## Examples

```
## Not run:
X <- read.table("raw_data.csv", header = TRUE)
D <- pp_clean(X, Sector = "Education")

# Now 'D' is a tidy dataset suitable for being used in the context of the 'PolicyPortfolio' package.

## End(Not run)
```

pp\_complete

*Complete a policy portfolio***Description**

Complete an already tidy dataset with the full set of instruments, targets and years. Used also to specify the order of instruments and targets.

**Usage**

```
pp_complete(
  D,
  year.range = NULL,
  Instrument.set = NULL,
  Target.set = NULL,
  date = FALSE
)
```

**Arguments**

|                |  |
|----------------|--|
| D              | Data frame in a tidy format with the following columns: "Country", "Sector", "Year", "Instrument", "Target" and "covered". "covered" is a binary identifier of whether the portfolio space is covered by policy intervention (1) or not (0). The remaining columns identify the case. Notice that "Year" is a numeric value, while the remaining 4 case identifiers are factors. |
| year.range     | Numerical vector of length two with the initial and final value of the years considered  |
| Instrument.set | Ordered factor with the full set of values of Instruments, to be combined with the already existing Instruments.   |
| Target.set     | Ordered factor with the full set of values of Targets, to be combined with the already existing Targets.   |
| date           | By default a portfolio by every year is employed. Otherwise, use a full date (DD-MM-YYYY).   |

**Value**

D Data frame in a tidy format with the following columns: "Country", "Sector", "Year", "Instrument", "Target" and "covered". "covered" is a binary identifier of whether the portfolio space is covered by policy intervention (1) or not (0). The remaining columns identify the case. Notice that "Year" is a numeric value, while the remaining 4 case identifiers are factors. It differs from the input in that this one includes the full set of pre-specified Instruments, Targets and temporal range.

**Examples**

```
data(P.education)
range(P.education$Year)

P.education.full <- pp_complete(P.education, year.range = c(2000, 2035))
range(P.education.full$Year)
```

pp\_measures

*Measures of interest of a policy portfolio***Description**

Calculate measures of interest of a policy portfolio.

**Usage**

```
pp_measures(D, id = NULL, clean_years = FALSE)
```

**Arguments**

|             |  |
|-------------|--|
| D           | Data frame in a tidy format with the following columns: "Country", "Sector", "Year", "Instrument", "Target" and "covered". "covered" is a binary identifier of whether the portfolio space is covered by policy intervention (1) or not (0). The remaining columns identify the case. Notice that "Year" is a numeric value, while the remaining 4 case identifiers are factors. |
| id          | A list with up to two elements, namely "Country", and "Year" indicating the specific identification characteristics of the portfolio(s) that must be processed. Defaults to NULL to process all portfolios.  |
| clean_years | A logical value indicating whether we want to remove observations from countries for which not all years are present. Defaults to FALSE.   |

**Value**

A tidy dataset containing the portfolio identifiers (Country, Sector and Year) plus the Measure identifiers (Measure and Measure.label) and the value of the portfolio characteristic.

**References**

Fernández-i-Marín, X., Knill, C. & Steinebach, Y. (2021). Studying Policy Design Quality in Comparative Perspective. *\_American Political Science Review\_*, online first. For Average Instrument Diversity.

Adam, C., Knill, C. & Fernández-i-Marín, X. (2016). Rule growth and government effectiveness: why it takes the capacity to learn and coordinate to constrain rule growth. *\_Policy Sciences\_*, 50, 241–268. doi:10.1007/s11077-016-9265-x. For portfolio size.

**See Also**

[diversity\\_aid](#) for Average Instrument Diversity, [Gini](#), [diversity configurations](#).

**Examples**

```
data(P.education)
m.education <- pp_measures(P.education)
m.education

# Calculate portfolio measures for a restricted set of portfolios defined by a list.
data(P.energy)
m.energy <- pp_measures(P.energy, id = list(Country = "Borduria", Year = 2022))
m.energy
```

---

pp\_plot

*Plot a policy portfolio*

---

**Description**

Plot a policy portfolio.

**Usage**

```
pp_plot(D, id = NULL, spacing = FALSE, subtitle = TRUE, caption = NULL)
```

**Arguments**

|          |  |
|----------|--|
| D        | Data frame in a tidy format with the following columns: "Country", "Sector", "Year", "Instrument", "Target" and "covered". "covered" is a binary identifier of whether the portfolio space is covered by policy intervention (1) or not (0). The remaining columns identify the case. Notice that "Year" is a numeric value, while the remaining 4 case identifiers are factors. |
| id       | A list with up to two elements, namely "Country", and "Year" indicating the specific identification characteristics of the portfolio(s) that must be processed.  |
| spacing  | Logical value. When TRUE, some space is added between tiles to help distinguish adjacent spaces. Defaults to FALSE.  |
| subtitle | Logical value. When TRUE (the default), a subtitle with the measures of the portfolio is included.   |
| caption  | A character vector to overimpose the Source of the data. For the CONSENSUS dataset, please use "citation(PolicyPortfolios)" to properly cite its source.   |

**Value**

A tidy dataset containing the portfolio identifiers (Country, Sector and Year) plus the Measure identifiers (Measure and Measure.label) and the value of the portfolio characteristic.

**Examples**

```
data(P.education)
pp_plot(P.education, id = list(Country = "Borduria", Year = 2025))
```

pp\_report

*Produce a report of policy portfolios***Description**

Produce a report of policy portfolios.

**Usage**

```
pp_report(
  D,
  id = NULL,
  file = NULL,
  title = NULL,
  plot = c("single", "comparative"),
  text = TRUE,
  width = 12,
  height = 7,
  comparative = c("temporal", "static"),
  between = "",
  within = "",
  dev_type_html = "svg",
  ...
)
```

**Arguments**

|       |  |
|-------|--|
| D     | Data frame in a tidy format with the following columns: "Country", "Sector", "Year", "Instrument", "Target" and "covered". "covered" is a binary identifier of whether the portfolio space is covered by policy intervention (1) or not (0). The remaining columns identify the case. Notice that "Year" is a numeric value, while the remaining 4 case identifiers are factors. |
| id    | A list with up to two elements, namely "Country", and "Year" indicating the specific identification characteristics of the portfolio(s) that must be processed. Defaults to NULL to process all portfolios.  |
| file  | Character vector with the name of the file to create. Defaults to a combination of the date and time of production and policy portfolio report.  |
| title | A character vector with the title of the report. If no title is passed, the default (NULL) is to use the id, or a generic title with the date and time of its production.  |
| plot  | A character vector with the types of plot to perform. If no plot is desired, set it to NULL. By default it plots individual portfolios ("single") as well as comparative figures with portfolio measures ("comparative").  |

|               |  |
|---------------|--|
| text          | A logical vector of whether in the case of single portfolios a textual report should be included.  |
| width         | A number with the width of the device for individual portfolio figures. Defaults to 12 for the svg device.   |
| height        | A number with the width of the device for individual portfolio figures. Defaults to 7 for the svg device.  |
| comparative   | A character vector with the types of comparative plots to perform. If no comparative plot is desired, set it to NULL. Valid types of comparative plots are "temporal" (for showing time series of measures of portfolios) or "static" (for dotplots with the values of a single time period. If multiple years are passed and "static" is set, then the last year is used. |
| between       | A character vector indicating the variable to which the between-comparison must be performed. Defaults to "Sector". Not yet implemented.   |
| within        | A character vector indicating the variable to which the between-comparison must be performed. Defaults to "Country". Not yet implemented.  |
| dev_type_html | Character. Character vector indicating the type of graphical device for the html output. By default, svg. See RMarkdown.   |
| ...           | Other options passed to intermediate functions.  |

**Value**

An html report.

**Examples**

```
## Not run:
data(P.education)
pp_report(P.education)

pp_report(P.education, id = list(Country = "Borduria", Year = 2025))

## End(Not run)
```

---

pp\_similarity

*Calculate the similarity between different portfolios*

---

**Description**

Calculate similarity between portfolios.

**Usage**

```
pp_similarity(D, id = NULL, method = "all", return_all = TRUE)
```

**Arguments**

|            |  |
|------------|--|
| D          | Data frame in a tidy format with the following columns: "Country", "Sector", "Year", "Instrument", "Target" and "covered". "covered" is a binary identifier of whether the portfolio space is covered by policy intervention (1) or not (0). The remaining columns identify the case. Notice that "Year" is a numeric value, while the remaining 4 case identifiers are factors. |
| id         | A list with up to two elements, namely "Country", and "Year" indicating the specific identification characteristics of the portfolio(s) that must be processed. Defaults to NULL to process all portfolios.  |
| method     | A character vector containing the indices of similarity requested. Defaults to "all". The implemented indices of binary similarity are "Jaccard", "Hamming" (Hamming distance), "Dice" (Sorensen & Dice), "Overlap" (Szymkiewicz and Simpson) and "Rand" (or Simple Matching Coefficient).   |
| return_all | Logical indicating whether all possible combinations (countries and years of origin and destination) must be returned or only when they are different. Defaults to TRUE.   |

**Value**

A tidy dataset containing the portfolio identifiers (Country, Sector and Year) plus the similarity measures and their values.

**Examples**

```
## Not run:  
data(P.education)  
pp_similarity(P.education, id = list(Year = 2025))  
  
## End(Not run)
```

# Index

## \* datasets

- accupol.instruments, [2](#)
- accupol.v1, [3](#)
- consensus, [5](#)
- consensus.instruments, [6](#)
- consensus.targets, [7](#)
- P.education, [9](#)
- P.energy, [10](#)

- accupol.instruments, [2](#), [4](#)
- accupol.v1, [3](#), [3](#)

- burden, [4](#)

- configurations, [5](#), [16](#)
- consensus, [5](#), [7](#), [8](#)
- consensus.instruments, [6](#), [6](#), [8](#)
- consensus.targets, [6](#), [7](#), [7](#)

- diversity, [16](#)
- diversity\_aid, [8](#), [16](#)

- Gini, [16](#)

- P.education, [9](#)
- P.energy, [10](#)
- pass.id, [10](#)
- pp\_array, [11](#)
- pp\_clean, [12](#)
- pp\_complete, [14](#)
- pp\_measures, [15](#)
- pp\_plot, [16](#)
- pp\_report, [17](#)
- pp\_similarity, [18](#)