Package ‘befproj’

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Type Package

Title Makes a Local Population Projection

Version 0.1.1

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Description This is a sub national population projection model for calculating population development. The model uses a cohort component method. Further reading: Stanley K. Smith: A Practitioner's Guide to State and Local Population Projections. 2013. <doi:10.1007/978-94-007-7551-0>.

License GPL-3

Encoding UTF-8

LazyData true

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Imports dplyr (>= 0.8.5)

Depends R (>= 2.10)

NeedsCompilation no

Repository CRAN

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Description

This is a Data Frame with assumptions about migrations rates, deaths and births.

Usage

data("assump_data")

Format

A data frame with 1111 observations on the following 14 variables.

- **age** a numeric vector
- **category** a factor with levels asdr_men asdr_women asfr inmig.rates.men inmig.rates.women intermig.net.men intermig.net.women natpop.men natpop.women outmig.rates.men outmig.rates.women
- **ar_1** a numeric vector
- **ar_2** a numeric vector
- **ar_3** a numeric vector
- **ar_4** a numeric vector
- **ar_5** a numeric vector
- **ar_6** a numeric vector
- **ar_7** a numeric vector
- **ar_8** a numeric vector
- **ar_9** a numeric vector
- **ar_10** a numeric vector
- **ar_11** a numeric vector
- **ar_12** a numeric vector

Details

This is a Data Frame that consists of assumptions and input to the population model. The Data Frame has 14 different variables under category: age specific death rates (asdr) for men and women, age specific fertility rates for women (asfr), domestic in migration and out migration rates for men and women, international in and out net migration for men and women, and the age specific national population.

Source

Umea kommun
**bef_components**

**Examples**

```r
data(assump_data)
str(assump_data)
```

**Description**

Makes a local population projection and produce results for population components

**Usage**

```r
bef_components(startpop, assumptions, YEAR)
```

**Arguments**

- `startpop`: This is the start population
- `assumptions`: This is a Data Frame with assumptions
- `YEAR`: This is the year from which the forecast starts

**Value**

The output from `return`

**Examples**

```r
bef_components(startpop_data, assump_data, 2019)
```

**bef_proj**

*Makes a local population projection and produce results for growth per year.*

**Description**

Makes a local population projection and produce results for growth per year.

**Usage**

```r
bef_proj(startpop, assumptions, YEAR)
```
bef_raw

Arguments

- **startpop**
  - This is the start population
- **assumptions**
  - This is a Data Frame with assumptions
- **YEAR**
  - This is the year from which the forecast starts

Value

The output from `return`

Examples

```
bef_proj(startpop_data,assump_data,2019)
```

**bef_raw**

Makes a local population projection and produce results for age, sex and year

Description

Makes a local population projection and produce results for age, sex and year

Usage

```
bef_raw(startpop, assumptions, YEAR)
```

Arguments

- **startpop**
  - This is the start population
- **assumptions**
  - This is a Data Frame with assumptions
- **YEAR**
  - This is the year from which the forecast starts

Value

The output from `return`

Examples

```
bef_raw(startpop_data,assump_data,2019)
```
Description

This is a Data Frame with a startpopulation. The ages reaches from 0 to 100. The start year is from 2019.

Usage

data("startpop_data")

Format

A data frame with 101 observations on the following 3 variables.

age   a numeric vector
dates a numeric vector
men   a numeric vector

Source

Statistiska centralbyran, SCB, Swedish statistics

Examples

data(startpop_data)
str(startpop_data)
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