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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Contents

assump_data *assumptions*

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

Examples

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

`bef_components` *Makes a local population projection and produce results for population components*

Description

Makes a local population projection and produce results for population components

Usage

```
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

```
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

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

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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)
```

startpop_data *Startpopulation*

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

`women` a numeric vector

`men` a numeric vector

Source

Statistiska centralbyran, SCB, Swedish statistics

Examples

```
data(startpop_data)
str(startpop_data)
```

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