Package 'sitrep'

February 24, 2026

Type Package

Title Report Templates and Helper Functions for Applied Epidemiology

Version 0.4.1

Description A meta-package that loads the complete sitrep ecosystem for applied epidemiology analysis. This package provides report templates and automatically loads companion packages, including 'epitabulate' (for epidemiological tables), 'epidict' (for data dictionaries), 'epikit' (for epidemiological utilities), and 'apyramid' (for age-sex pyramids). Simply load 'sitrep' to access all functions from the ecosystem.

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URL https://github.com/R4EPI/sitrep/, https://r4epi.github.io/sitrep/

BugReports https://github.com/R4EPI/sitrep/issues/

Depends R (>= 3.2)

Imports apyramid (>= 0.1.0), epidict (>= 0.2.0), epikit, epitabulate (>= 0.1.0), utils

Suggests anthro, binom, broom, clipr, covr, dplyr (>= 0.8.0), flextable, forcats, ggalluvial, ggplot2 (>= 3.0.0), ggspatial, glue, gtsummary (>= 2.0.0), here, janitor, knitr, labelled, lubridate, matchmaker, pacman, parsedate, patchwork, purrr, rio, rlang (>= 0.4.0), rmarkdown, scales, sessioninfo, sf, slider, srvyr, stats, stringr, summarytools, survey, testthat (>= 2.1.0), tibble, tidyr (>= 1.0.0), tidyselect, tsibble, vdiffr

VignetteBuilder knitr

Encoding UTF-8

RoxygenNote 7.3.3

Collate 'sitrep-package.R' 'check_templates.R' 'metapackage_functions.R'

NeedsCompilation no

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available_sitrep_templates

Display the available sitrep templates

Description

Display the available sitrep templates

Usage

```
available_sitrep_templates(categorise = FALSE, ...)
```

Arguments

categorise	if TRUE, the results are split into a list of outbreak and survey categories. Defaults to FALSE.
...	options to pass on to dir

Value

a vector of available templates in the sitrep package

Examples

```
available_sitrep_templates(categorise = TRUE)
available_sitrep_templates(categorise = TRUE, full.names = TRUE)
```

---

check_sitrep_templates

Run the templates found in the sitrep package.

Description

Run the templates found in the sitrep package.

Usage

```
check_sitrep_templates(
  templates = available_sitrep_templates(),
  path = tempdir(),
  quiet = FALSE,
  progress = FALSE,
  mustwork = FALSE,
  output_format = NULL,
  clean = TRUE
)
```

Arguments

templates	a vector of templates to create and render
path	a directory in which to store the templates
quiet	if FALSE (default), a message will be printed for every template.
progress	if TRUE, then the progress of the template is printed to screen (passed to the quiet argument of [rmarkdown::render()](#)). Defaults to FALSE
mustwork	if TRUE, then the templates must work for the function to succeed. Defaults to FALSE, which will simply print the errors.
output_format	a character defining the output formats to use for the template files. Defaults to the output_format defined in the templates (which is word_document), but can be modified to html_document for cross-platform cromulence checking.
clean	if TRUE (default), this will remove the previous output file before rendering.

Value

the path where the templates were built.

Examples

```
check_sitrep_templates("mortality")
```

---

sitrep_check_deps   *Check if all sitrep dependencies are available*

Description

Checks if all packages needed for the sitrep ecosystem are installed and loads properly. Useful for verifying offline readiness.

Usage

```
sitrep_check_deps(quiet = FALSE)
```

Arguments

quiet   Should output be suppressed? Default is FALSE

Value

Named logical vector indicating which packages are available. Names are package names, values are TRUE if available, FALSE otherwise.

Examples

```
# Check what's missing before going offline
sitrep_check_deps()
```

---

sitrep_conflicts   *Check for function conflicts in sitrep ecosystem*

Description

This function identifies any naming conflicts between functions in the sitrep ecosystem packages.

Usage

```
sitrep_conflicts()
```

Value

NULL (invisibly). Prints messages about conflicts to console.

---

sitrep_functions	*List all functions in sitrep ecosystem*

Description

Shows all available functions across the sitrep ecosystem packages.

Usage

```
sitrep_functions(pattern = NULL)
```

Arguments

pattern	Optional regex pattern to filter function names

Value

A data frame with columns 'package' and 'function_name', sorted by package and function name.

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sitrep_install_deps	*Install all sitrep ecosystem dependencies for offline use*

Description

This function provides code to install all packages needed for the complete sitrep ecosystem, ensuring you have everything needed for working without internet connection.

Usage

```
sitrep_install_deps(
  upgrade = "ask",
  dependencies = TRUE,
  repos = getOption("repos"),
  quiet = FALSE,
  force = FALSE
)
```

Arguments

upgrade	Should packages be upgraded? Options: "ask", "always", "never". Default is "ask"
dependencies	Should dependencies be installed? Default is TRUE
repos	Repository to use. Default uses getOption("repos")
quiet	Should installation be quiet? Default is FALSE
force	Should installation proceed without prompts? Default is FALSE

Details

This function reads the sitrep DESCRIPTION file and provides code to install all packages listed in Depends, Imports, and Suggests fields. This ensures complete functionality in offline environments.

Value

Character vector of all dependency package names (invisibly).

Examples

```
# Install everything for offline field work (with prompts)
sitrep_install_deps()

# Install without prompts
sitrep_install_deps(force = TRUE)

# Install quietly without prompts or upgrades
sitrep_install_deps(upgrade = "never", quiet = TRUE, force = TRUE)
```

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