

Package: fsmglobal (via r-universe)

September 24, 2026

Title Global Faecal Sludge Emptying Services Demand

Version 0.0.1

Description Global faecal sludge emptying demand data for 175 countries and territories, based on 2017 population figures. Demand is quantified by the population served by one of four emptying methods (mechanized, non-mechanized, unemptiable, no facility). The demand is disaggregated into urban and rural proportions.

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Language en-GB

Encoding UTF-8

Roxygen list(markdown = TRUE)

Suggests rmarkdown

Config/Needs/website rmarkdown, tidyverse, epoxy, gt, janitor, dplyr, ggplot2

Depends R (>= 2.10)

LazyData true

Date 2023-04-26

URL <https://github.com/openwashdata/fsmglobal>

BugReports <https://github.com/openwashdata/fsmglobal/issues>

X-schema.org-keywords open data, washdata, faecal sludge management, emptying services, sanitation, demand, low- and middle-income countries, global

X-schema.org-spatialCoverage Global, 175 countries and territories in Africa, Asia, Latin America and the Caribbean, and Oceania

X-schema.org-temporalCoverage 2017-01-01/2017-12-31

Config/roxygen2/version 8.0.0

Repository <https://openwashdata.r-universe.dev>

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RemoteUrl <https://github.com/openwashdata/fsmglobal>
RemoteRef HEAD
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Description

Populations of 175 countries requiring faecal sludge emptying services.

Usage

fsmglobal

Format

A tibble with 700 rows and 9 variables:

- iso3c** International Standards Organization (ISO) 3-digit alphabetic codes.
- country** Name of the country.
- emptying_method** Type of faecal sludge emptying method for corresponding population in population_emptying_method
- population_2017** Total country population in 2017.
- population_emptying_method** Total population requiring faecal sludge emptying services for type of method identified in emptying_method.
- count_pits_septics** Total number of pit latrines and septic tanks in country.
- emptying_demand** Emptying demand as the proportion of population_emptying_method / population_2017.
- urban_demand** Urban proportion of the emptying demand (share of population_emptying_method in urban areas).
- rural_demand** Rural proportion of the emptying demand (share of population_emptying_method in rural areas).

Source

Originally published in: Greene, N., Hennessy, S., Rogers, T. W., Tsai, J., & de los Reyes III, F. L. (2021). The role of emptying services in provision of safely managed sanitation: A classification and quantification of the needs of LMICs. Journal of Environmental Management, 290, 112612. <https://doi.org/10.1016/j.jenvman.2021.112612>

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* **datasets**

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