

# Epiverse-TRACE showcase Karim Mané Research Software Engineer

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MRCG
Pillar 1: data science
tools for field
epidemiology







### Epiverse TRACE powered by data.org



#### Pillar 1:



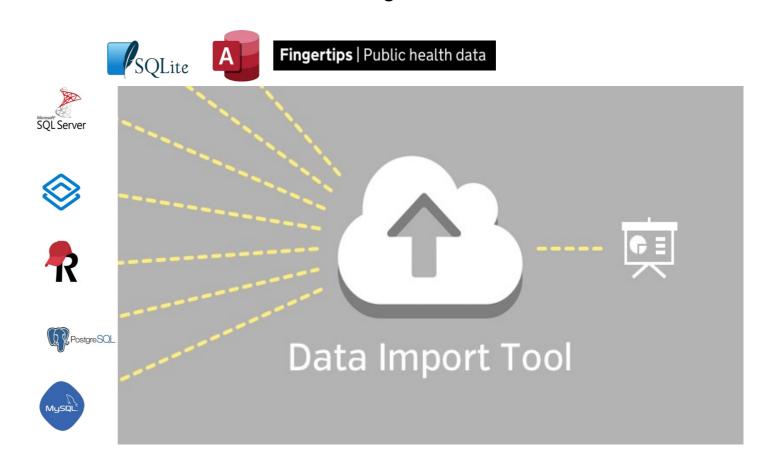


MRC Unit The Gambia



#### the challenges:

Dealing with different HIS



## {readepi

Stage of May repopment:

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Importing data from health information systems (HIS) ingluding: DHIS2 **RDBMS** 

**Fingertips** 









Fingertips | Public health data



https://epiverse-trace.github.io/readepi



pepiverse-trace/readepi







#### Wants to use {readepi}: 3 requirements

- Assume that user is granted with read access to the HIS of interest
- User credentials to be saved in a file
- For MS servers, need installation of appropriate MS drivers on Unix and OSX-based systems

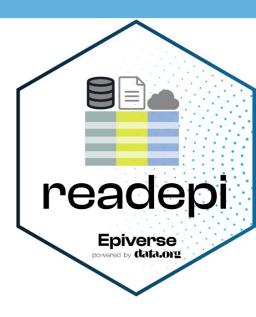
#### Return object type: list





#### {readepi}: main arguments

- data\_source: the URL of the target HIS
- records: a vector of subject IDs
- fields: a vector of column names
- id\_position: the column position of the variable that unique identifies the subjects
- id\_col\_name: the name of the column that unique identifies the subjects
  - ... specific arguments to the HIS of interest



#### # DISPLAY THE STRUCTUTRE OF THE TEMPLATE CREDENTIAL FILE

#### show\_example\_file()

user_name	password	host_name	project_id	comment	dbms	port
admin	district	https://play.dhis2.org/dev	DHIS2_DEMO	this is a test DHIS2 server	DHIS2	NA
rfamro		mysql-rfam-public.ebi.ac.uk	Rfam	this is a test MySQL server	MySQL	4497
kmane	9A81268476645C4E5F03428B8AC3AA7B	https://bbmc.ouhsc.edu/redcap/api/	SD_DATA	testing access to REDCap project	REDCap	NA







```
# DEFINE THE PATH TO THE CREDENTIAL FILE
```

```
credentials_file <- system.file("extdata", "test.ini", package = "readepi")</pre>
```

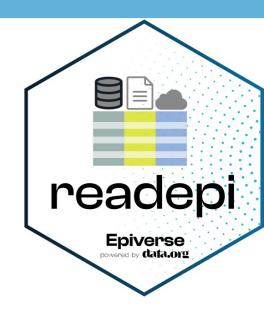
# READING FILE FROM A PROJECT IN A REDCap DATABASE

```
project_data <- data$data # accessing the actual data
project_metadeta <- data$metadata # accessing the metadata
associated with project</pre>
```













```
# READING ALL FILEDS AND RECORDS FROM A MySQL SERVER
```

#### # READING DATA FROM DHIS2







# READING DATA FROM THE FINGERTIPS REPOSITORY

# OPEN THE VIGNETTE WITHIN RSTUDIO vignette("readepi")

# OPEN THE VIGNETTE IN YOUR WEB BROWSER browseVignettes("readepi")





