

2021-05-10

Instructions for WIO Symphony data ingestion/tracking app

Main purpose of the app

1. Organize incoming data for easy access and further processing.
2. Harvest basic metadata, including source, copyrights and thematic tags.
3. Make all incoming data traceable to end products by creating an ID for each upload.

How to run the app

In one sentence:

Install R/Rstudio, save the “shiny_data_upload” folder where you like your data, open *shiny_data_upload_v01.2.R* with R studio, and click “Run App”. Fill in information for your data upload as per instructions in app, hit submit and place your data in the created folder together with the “uniqueid_metasym.txt” file you just created. Done! You can go back and add more detail later if needed.

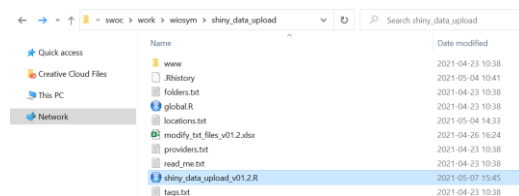
In more detail:

1. Install R and R Studio (free). This is because the app runs locally now (e.g. not on dropbox with web interface as shown in workshop) to avoid GDPR and other sensitivity issues. R/Rstudio is also the main software for further processing from source to combined products, so it will be useful for any further engagement.

<https://www.r-project.org/> - Install latest version of R

<https://www.rstudio.com/products/rstudio/download/> - Install latest version of R Studio

2. You will have received a zipped folder called “shiny_data_upload” from us. But you can also download the [folder here](#) (password: wiosym), the download link will be updated with the latest version of the app. Create a folder on your computer where you would like to work with WIOSym data (e.g. .../wiosym/), and unzip the shiny_data_upload-folder there (.../wiosym/shiny_data_upload/).



3. Open *shiny_data_upload_v01.2.R* using R Studio (right click/open with...). Click “Run App” in the top right corner of the window that opens. You may need to run `> install.packages(“shiny”)` first in the R studio command line if this is your first time.

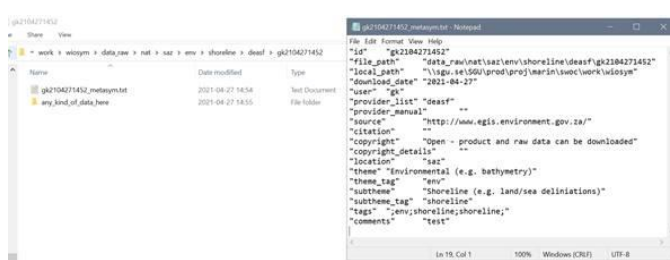
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1 # ##### About #####
2 # App that creates a unique metadata file (idyyyyymmddhww_metasym.txt) for any data used in the WIO Symphony project...
3 # which will make sure the incoming data is tracked in the processing of any products
4 # the App also creates the folder organization for incoming data
5
6 ##### Instructions #####
7 # Run the line below code without "R" if you have not yet installed the shiny package (e.g. install.packages("shiny"))
8 # then click "Run App". One right corner of this window if you opened this file in a shell.
9 # Follow the instructions provided in the app, once completed you need to move your data to the created folder...
10 # Consult the instructional video and the Swedish WIO Symphony team if you have questions
11 # #####
12
13 # Shiny App for metadata and folder structure for incoming data into WIO Symphony .....
14 # install.packages("shiny")
15 # library(shiny)
16 source("global.R")
17
18
19
20

```

- Now a new window with the actual app interface should open. Fill in the required information about the data you wish to contribute, and click "Submit" at the bottom.

- Now a folder called "data_raw" is created in your shiny_data_upload-folder. Here, you add the data you wish to contribute to this directory (needs to have the same source and copyright, if not split up in several uploads).



- You can edit or add information through the app at any later date.
- Rinse and repeat 3-5 for any other data you want to ingest....
- Once you are content, zip the data_raw-folder and share it with us if the purpose is to add to the regional WIO Symphony tool. We will combine it with the main data base and integrate it with any products that benefit from this data. The App can be used to start your own local project as well if that is of interest.

If you need more help you can watch the instructional video available in the [shiny app folder](#) (password: wiosym), or contact the Swedish team for guidance.

Additional information

The most important information we need on any data is the source and copyright-situation. Final products should include ISO standard metadata, but for the data coming in we use a simplified form that will help us create ISO for final products. Concerns/comments how to make this ingestion stage easier and better are much appreciated. Just contact any member of the Swedish team.

Next step after the data ingestion stage is to process the data into combined products before we can put it in work in cumulative impact assessments. We are working in a separate folder for that (data/...). This is more technically demanding but R templates are being developed for the technically minded user and all processing will be shared openly.