

EUROCAT Data Management Software

Analyse data

Statistical surveillance - Clusters

Introduction

- DMS performs the **clusters analysis** according to the methodology described in the [Statistical monitoring protocol](#).
- The analysis can run on **one centre at a time, for a selection or all anomaly subgroups**.
- [Section 1](#) shows how the clusters analysis run in DMS.
- Accessing the statistical monitoring functions in the DMS requires to install the « **R distribution for Eurocat DMS.msi** » and to save the appropriate collection of R libraries. Please, follow instructions in [section 2](#).

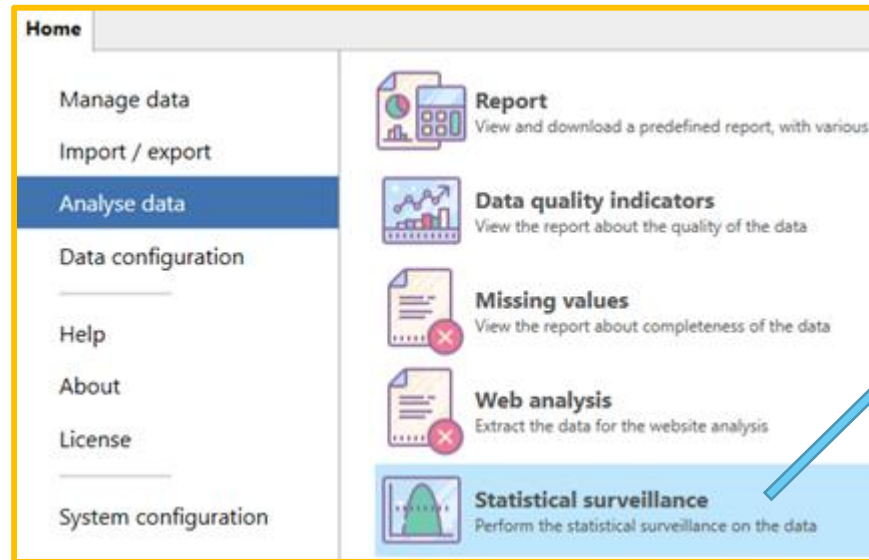
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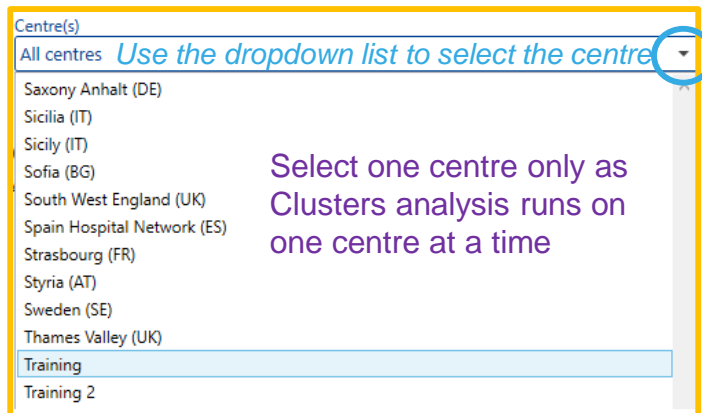
1. Run clusters analysis in DMS

Run clusters analysis in the DMS

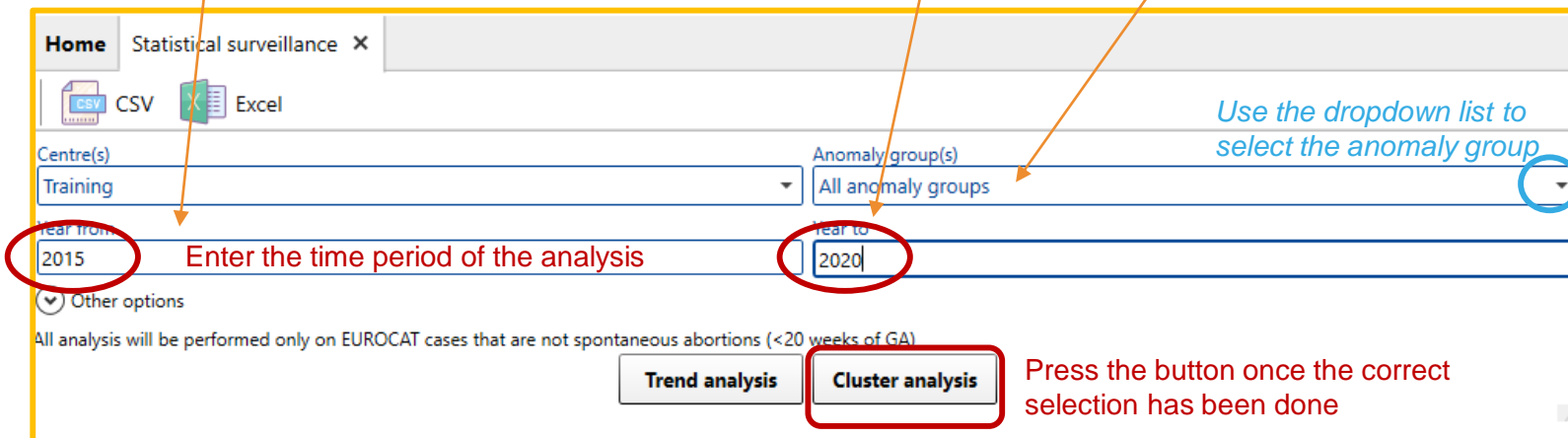
Selection criteria



Clusters analysis can run on one or several anomaly groups. Select the appropriate here.

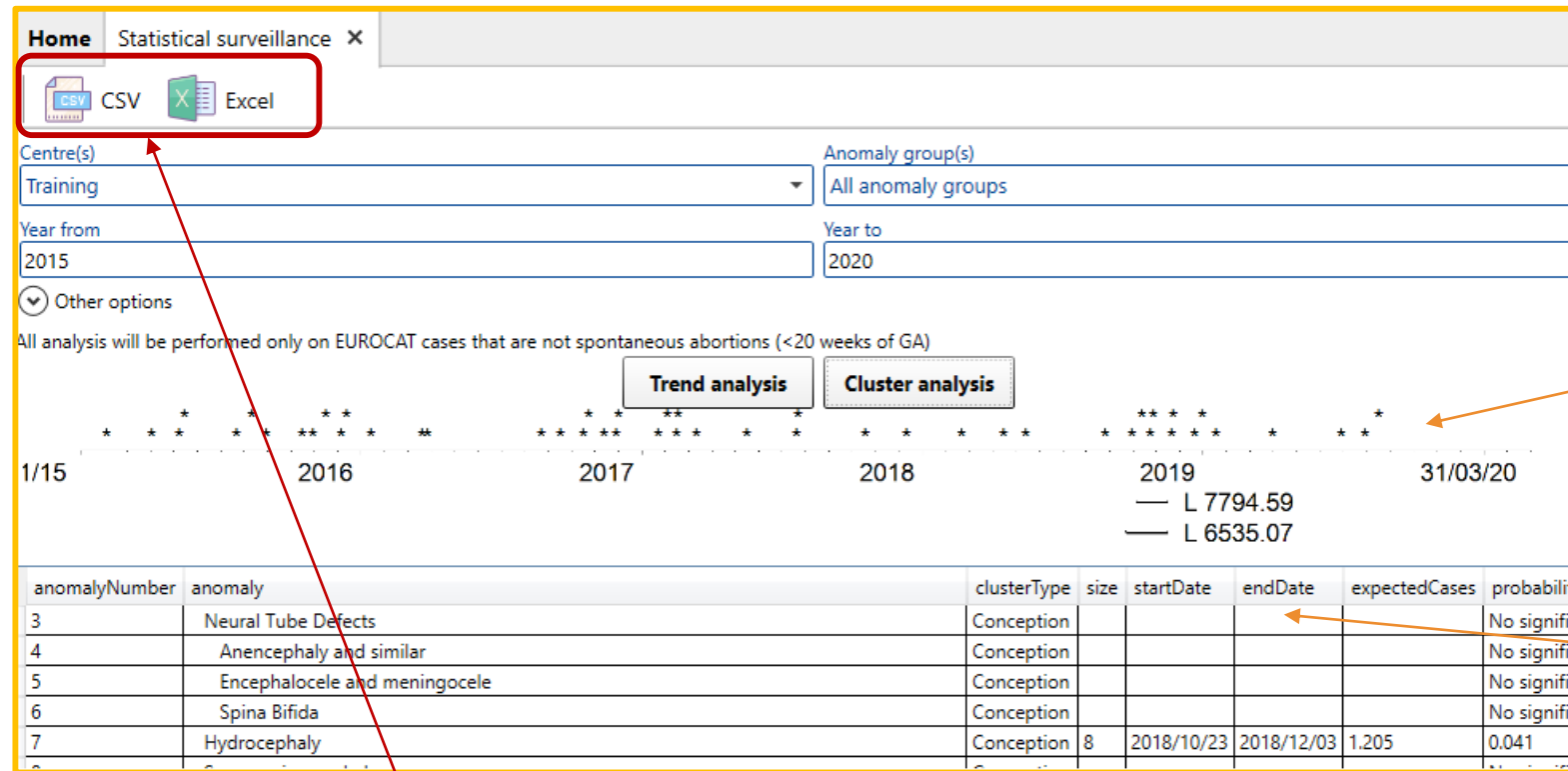


Select one centre only as Clusters analysis runs on one centre at a time



Run clusters analysis in the DMS

Results



The DMS interface displays the results once the analysis has run. They consist in:

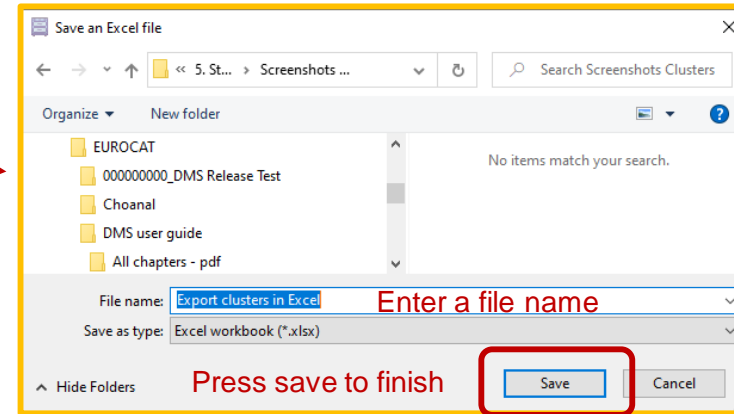
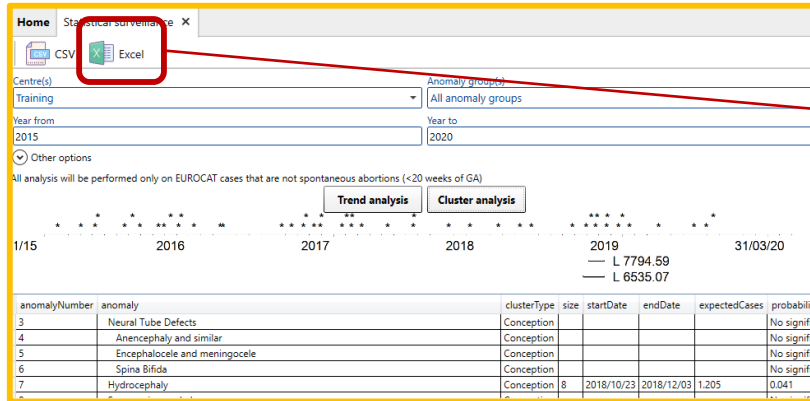
- A timeline over the period covered by the analysis, with the cases plotted by estimated date of conception (or by date of birth if there are too many unknown gestational age).
- A summary table with the characteristics of the clusters potentially detected in an anomaly subgroup.

Results can be exported in csv or Excel:

- csv: only the summary table is exported
- Excel: the export includes, in separate spreadsheets, the summary table as well as the timeline and the list of valid cases in the period of analysis.

Run clusters analysis in the DMS

Export results in Excel



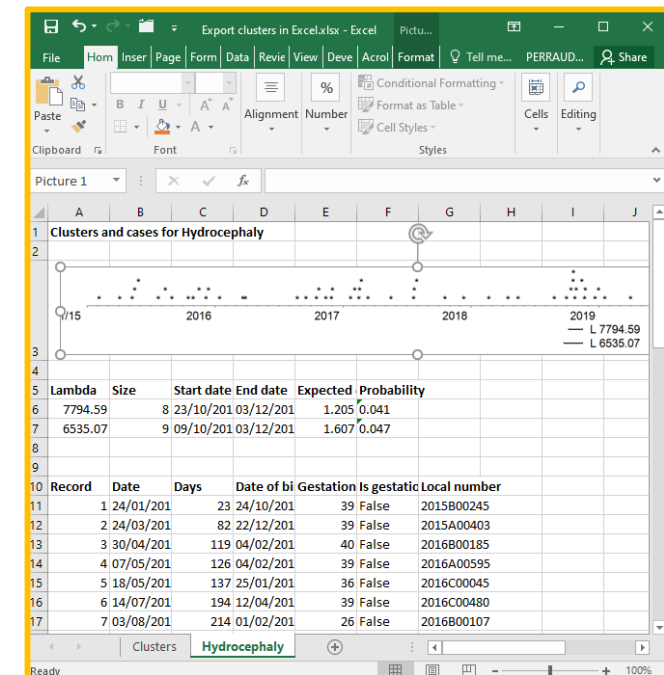
Browse the location where you want to save the file.

The excel file contains a spreadsheet with the summary table:

The screenshot shows an Excel spreadsheet titled 'Export clusters in Excel.xlsx'. The spreadsheet contains a summary table for clusters:

Record	Date	Days	Date of bi	Gestation	Is gestatic	Local number
11	1 24/01/201	23	24/10/201	39	False	2015B00245
12	2 24/03/201	82	22/12/201	39	False	2015A00403
13	3 30/04/201	119	04/02/201	40	False	2016B00185
14	4 07/05/201	126	04/02/201	39	False	2016A00595
15	5 18/05/201	137	25/01/201	36	False	2016C00045
16	6 14/07/201	194	12/04/201	39	False	2016C00480
17	7 03/08/201	214	01/02/201	26	False	2016B00107

And one spreadsheet for each subgroup where a cluster has been detected, with the timeline and the list of valid cases over the period of analysis:

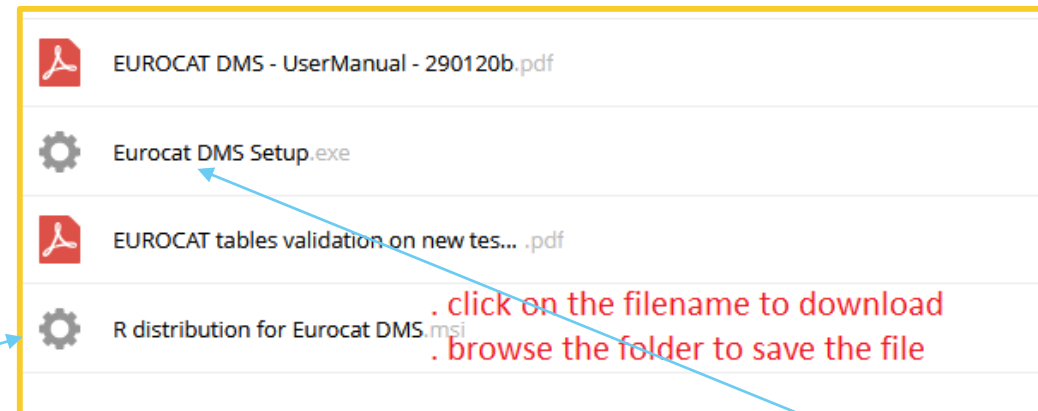


2. R distribution for DMS

Install the *R distribution for Eurocat DMS.msi*

Accessing the statistical monitoring functionalities in the DMS implies to **install a distribution of the free R software** that is recognised by the DMS.

To request the installation files, please contact the [JRC-EUROCAT central registry](#).



The *.msi* must be run on the user Windows profile, after the main structure of the software (*.exe*) has been installed. An IT administrator of your organisation may need to enter his credentials to allow the installation.

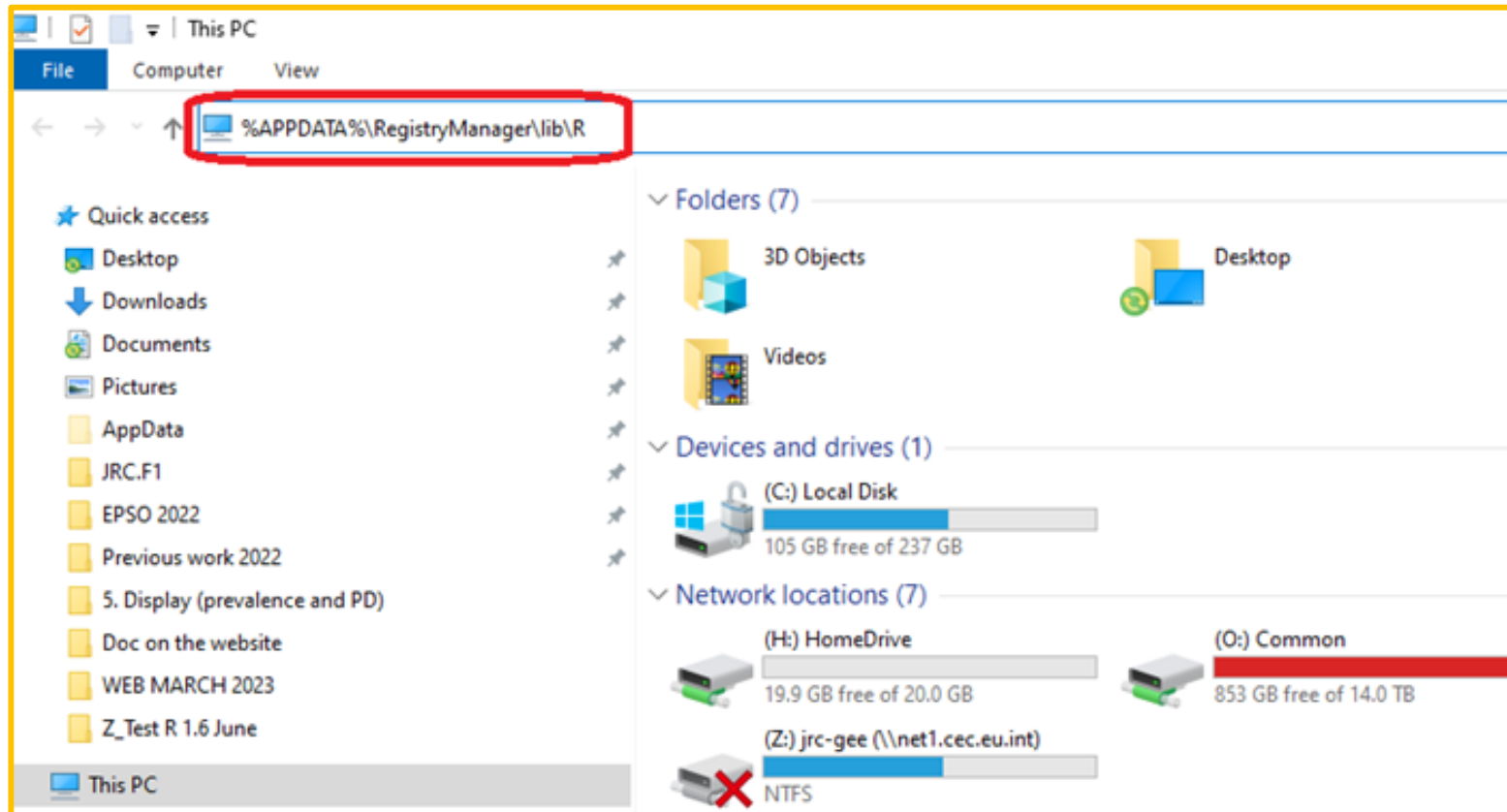
New R libraries for DMS - download

Once the R distribution has been installed (see [page 9](#)), the R libraries need to be updated. Please, proceed as indicated in the following slides.

1. Please contact the [JRC-EUROCAT central registry](#) to get the complete list of libraries.

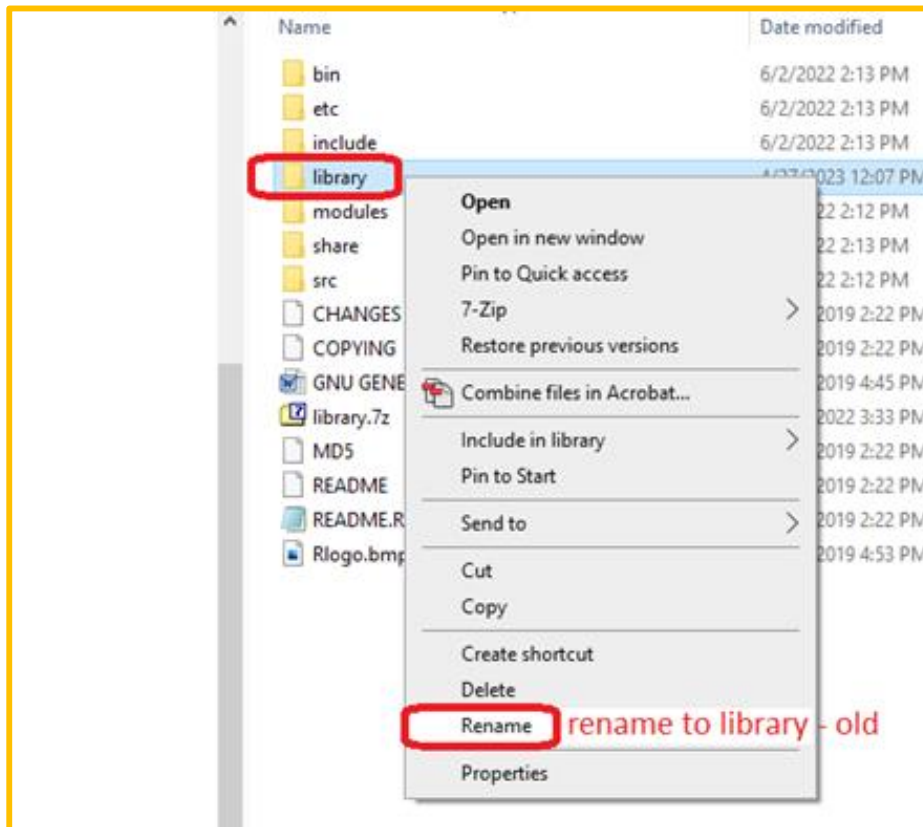
New R libraries for DMS – locate the folder where the libraries will be saved

2. In your File explorer, type `%APPDATA%\RegistryManager\lib\R` in the address bar and press ENTER:



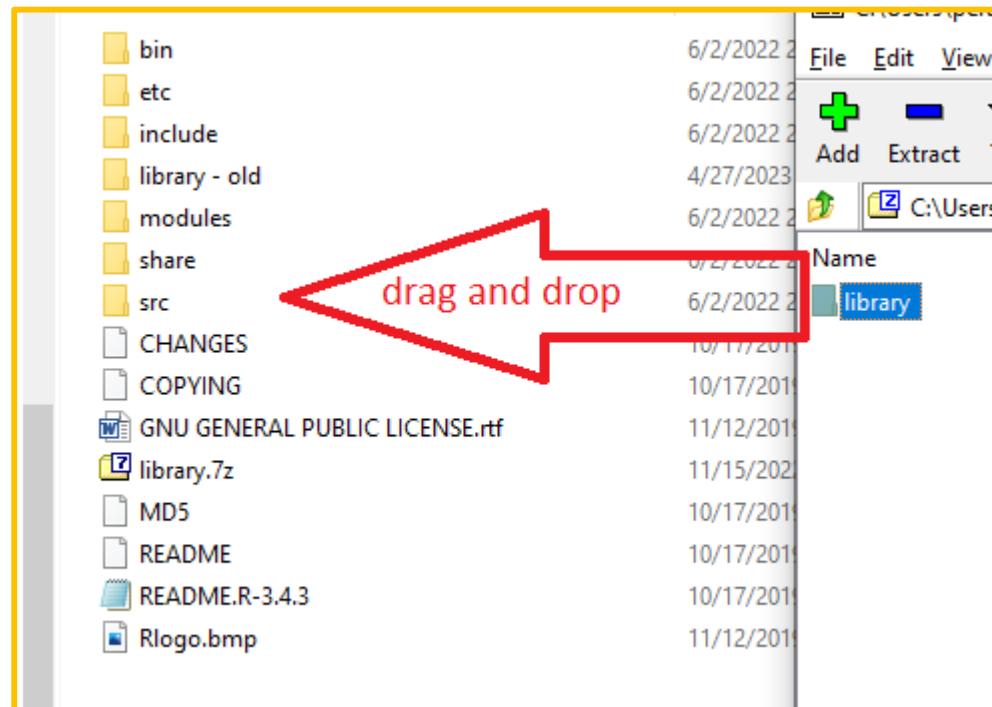
New R libraries for DMS – rename existing folder

3. Rename the folder **library** to **library - old**



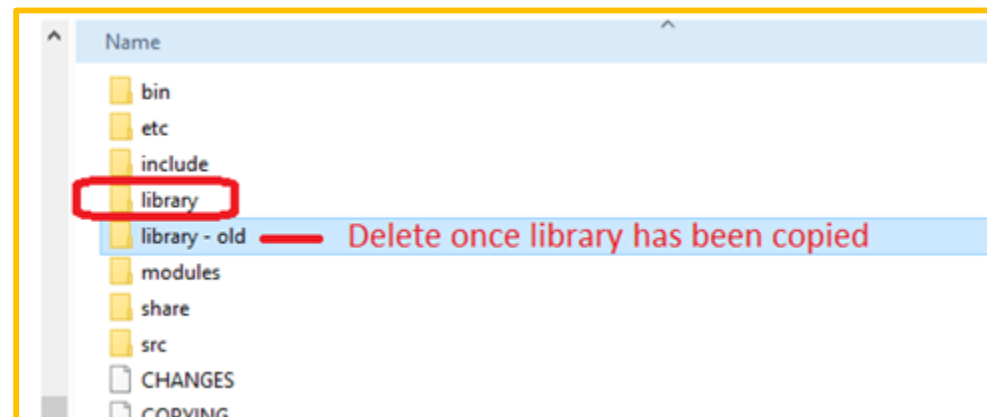
New R libraries for DMS – copy new R libraries

4. Open the `.zip` file you downloaded in step 1 (see [page 10](#))
5. Drag and drop the folder named `library` in this file to the `RegistryManager\lib\R`



New R libraries for DMS – delete old R libraries

6. Wait until the folder is copied, then you can delete the folder **library - old**



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