Best-ReMaP

Healthy Food for a Healthy Future

WP 5 – REFORMULATION AND PROCESSED FOOD MONITORING

T+1 Statistics methodology (task 5.5.1)

Part 1

Anses

20.10.2022



Training for statistics on T+1 data

1st part

20th October 2022

Introduction to R software + verifications to perform on the data collected before being able to produce indicators

2nd part

24th November 2022

Creation of indicators on T+1 data and comparisons with preexisting data + production of the report



2022. 10. 21.





1) Introduction of task 5.5.1 (page 4)

2) Installation of the necessary equipment and presentation of the Rstudio software (page 10)

- A. Preliminary steps (page 11)
- B. Installation of software (page 39)
- C. Introduction to R studio (page 48)
- D. Cleaning of the Rstudio interface (page 62)

3) Running of the verification programs (page 69)

- A. Part 1: R setup program (page 78)
- B. Part 2: Verification programs and template cleaning/standardization (page 88)
 - i. 1st verification program : '*Verifications template_step_1*' (page 90)
 - ii. 2nd verification program : 'Verifications template_step_2' (page 119)
 - iii. 3rd verification program : 'Verifications template_step_3' (page 144)
 - iv. 4th verification program : 'Verifications template_step_4' (page 166)

4) Next steps (page 191)





1) Introduction of task 5.5.1





Task

5.4.1

Task 5.5.1

Reminder of the activities objectives of WP5

Activities

- Data collection : pictures of products taken in shops
- Data entry : entry of all product information in a common template
- Data codification :
 - Classification of products of the template into categories and subcategories that allow homogeneous grouping of products according to recipe, ingredients, ...
 - The subcategories are defined to enable to identify best formulation and room for reformulation

• Production of indicators :

- Indicators that are defined for monitoring (analysis of the food offer, nutritional values, portion size, ...)
- These indicators are produced at the <u>subcategory level</u> because analysis at the subcategory level have been identified as the "gold standard" during JANPA

Objectives

- Data available to characterize the food offer and the nutritional quality of processed food at a given time (number of products by subcategory, nutrient values, list of ingredients...)
- Monitoring: knowledge of the evolution over time (reformulation, addition of new products...)
- Assessment of the impact of nutrition policy measures both on the food offer and the composition of processed food (commitments with industry, thresholds, taxes)





Task 5.5.1 : Production of statistics for the 2nd snapshot (T+1)



+ Ireland (involved in the first European snapshot T0)

- → Partners involved in the Batch 1 of the second European Snapshot (T+1) will have to produce statistics/indicators by Best-ReMaP categories and subcategories of products collected during the T+1
- → Comparisons with pre-existing data will be made in order to establish trend assessments of the nutritional quality of the processed food
- → Each partners will have to produce a report that will be included in the WP5 deliverable (D5.3)



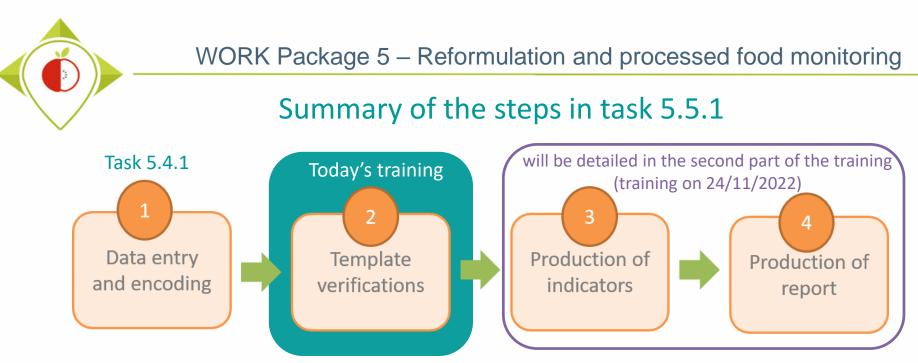


WORK Package 5 – Reformulation and processed food monitoring

Timeline of the task 5.5.1

| 2022 | | | | | | | | | | | | 2023 | | | | | |
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It is important to finish each step before moving on to the next

- **Steps 2 and 3** will be done by data processing programs on the Rstudio software which is a free software and therefore accessible to all. The programs have already been created and written in order to harmonise the work and ensure that all partners work in the same way. You will just need to run the programs on your data (you will not have to create any programs).
- Step 3 and 4 will not be detailed in this training but in the 2nd part of the training on <u>24th November 2022</u>
- **Step 4** : you will receive all the elements so that everyone can produce a report on the analysis of his data. A sample report will be provided to ensure that the results for each country are presented in a harmonised way. You will have more information about the report during the 2nd part of the training.





Equipment needed

• **T+1 collection template** : template that you filled in according to the WP5 methodology during your T+1 data collection and with data for the 5 priority food categories.

Tools you already have

Tools you will have to

download (explanation

pages 40-47)

- Pictures of the products that you have collected for your T+1 data collection
- **Pre-existing data template** : template with your pre-existing national data that have been classified in the Best-ReMaP nomenclature
- **R**, **Rstudio** : Free statistical software that you will use to check and correct the data entered in your template and to perform indicators/statistics on your data
- WP5 R programs : R programs created by Anses that you will just have to run on the Rstudio software (you will be guided at each step, you will not have to create programs or develop code).
- Support files for programs (wp5_verification_file; Best-ReMaP_nomenclature; Subcategory_order; Years of interest) : files that you will have to download and as it will be used in the R program.
 These files do not have to be filled in or modified (except the file 'Years of interest').

The **WP5 R programs** and **the support files** are available in a <u>zip folder</u> on the project intranet by following this link: <u>https://portal.nijz.si/ssf/a/c/p_name/ss_forum/p_action/1/binderId/21932/entityType/folder/action/view_permalink/novl_url/1</u>

You will need to copy this **folder** as it is on the desktop of your computer (this action is detailed in the slide 32-33)



2) Installation of the necessary equipment and presentation of the Rstudio software

A. Preliminary steps (page 11)

B. Installation of software (page 39)

C. Introduction to R studio (page 48)

D. Cleaning of the Rstudio interface (page 62)





2) Installation of the necessary equipment and presentation of the Rstudio software

A. Preliminary steps

B. Installation of software

C. Introduction to R studio

D. Cleaning of the Rstudio interface





1st preliminary step : preparation of the T+1 collection template (page 13)

2nd preliminary step : preparation of the pre-existing data template (page 30)

<u>**3**rd preliminary step : creation of the working folder (page 32)</u>

4th preliminary step : preparation of the file "Years of interest.csv" (page 34)





1st preliminary step : preparation of the T+1 collection template

- → You must ensure that your T+1 collection template is a single file with a single tab for all data collected during T+1 (the 5 food categories in the same tab).
- → As your T+1 collection template contains many rows and drop-down menus, you will have to copy it into a **new**.xlsx excel file to keep only the filled rows and remove the dropdown menus.

see the following slides for a step-by-step explanation of this procedure

It is also possible for you to perform the verification steps category by category by working on 5 different files (1 per Best-ReMaP category).

Please note that this will result in more file handling and that you will need to gather all your T+1 data in one file at the end of your verification steps. The program to create the indicators will have to be run on the compiled file of all verified categories (see training of 24 November).





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WORK Package 5 – Reformulation and processed food monitoring

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1st preliminary step : preparation of the T+1 collection template

→ Now you have an .xlsx file containing only the lines with your data and without the drop-down menus.

You can rename it **T+1 data collection** *country*.xlsx (with the name of your own country) for example.

→ You must make a copy of this file (T+1 collection template *country*.xlsx) and save it in .csv (comma separator) format under the name T+1_data_collection_country.csv (with the name of your own country)

The creation of this file in .csv format is very important because it is this file that will be used in the R software for the verification and indicator creation stages.

see the following slides for a step-by-step explanation of this procedure



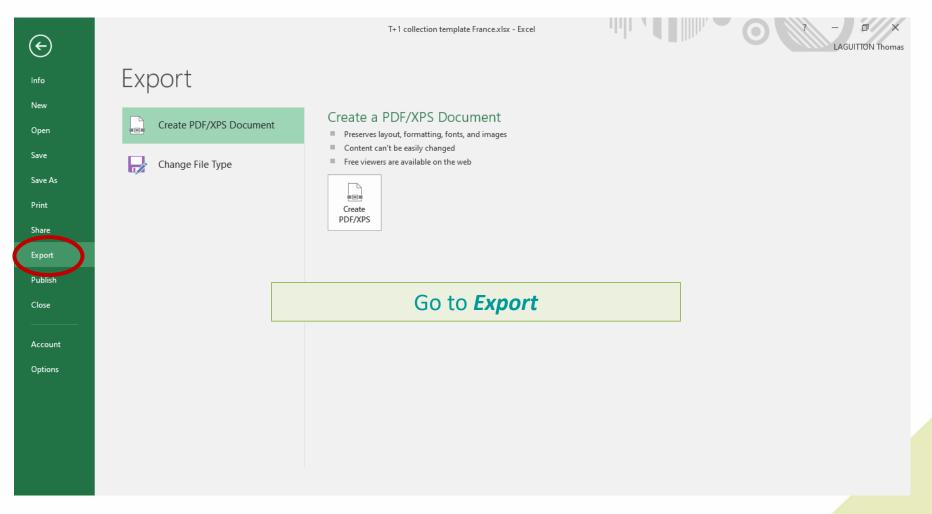


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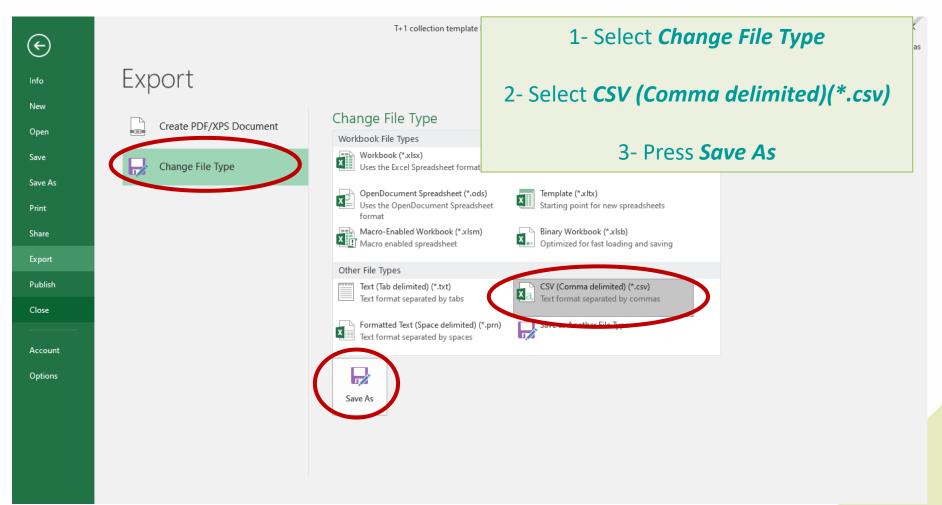
WORK Package 5 – Reformulation and processed food monitoring







WORK Package 5 – Reformulation and processed food monitoring







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It is necessary to select the column 'bar_codes' and change the column format to 'Number' with 0 decimal digit.

The bar codes will appear in full and you will not lose any information. You can then save this new version of your template with the full barcodes and overwrite the old one.

Be careful, as soon as you reopen this new **.csv file**, the barcodes will be written scientifically again and you will have to repeat this procedure. We therefore invite you to do this procedure only once when you save the **.csv** file and not to reopen the saved file.

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see the following slides for a step-by-step explanation of this procedure



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| 5 | 343 | Poland | 2021 Delicatessen m | e Dry sausage | 5,41E+12 N | lo | Marcassou | | | | | | | | | | | |
| 6 | 345 | Poland | 2021 Fresh dairy pro | dı Classic plain fresh c | 5,4E+12 N | lo | Carrefour | | | | | | | | | | | |
| 7 | 346 | Poland | 2021 Fresh dairy pro | dı Artificially-sweeter | 20916626 N | lo | Milbona | | | | | | | | | | | |
| 8 | 347 | Poland | 2021 Fresh dairy pro | di Dessert creams and | 3,56E+12 N | lo | Carrefour bio | • | | | | | | | | | | |
| 9 | 348 | Poland | 2021 Fresh dairy pro | di Dessert creams and | 3,03E+12 N | lo | Danone | Danone | | | | | | | | | | |
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| 1 | 350 | Poland | | Is Sweet cereal flakes | | | Goldenbridg | 2 | - | | | | | | | | | |
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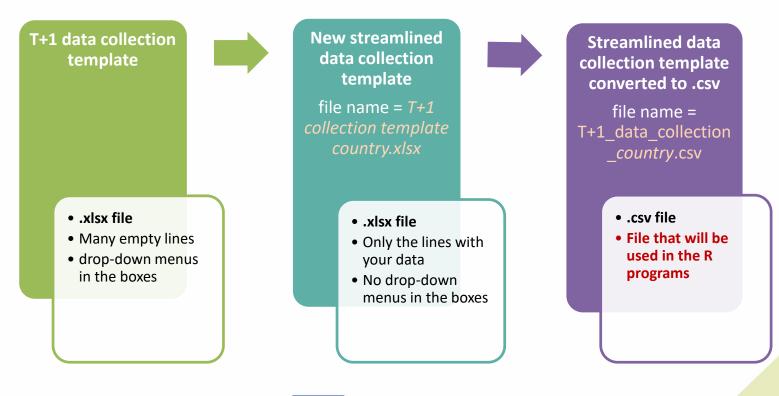
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| 68 | 367 | | Poland | | Soft drinks | | avoured mi | | 3428271180011 | | Lactel | | |
| 69 | 368 | | Poland | | Bread produ | | e-packageo | | | | Biafor | m | |
| 70 | 369 | | Poland | | Soft drinks | | igar-sweete | | | | River | | |
| 71 | 370 | | Poland | | Soft drinks | | ther bevera | · | | | UFC | | |
| 72 | 371 | | Poland | | Soft drinks | | olas withou | t adde | | | Pepsi | | |
| 73 | 372 | | Poland | 2021 | Bread produ | cts Ot | ther rusks | | 3760020508371 | NO | Léana | ture | |

Your barcodes appear in full, you can save this table by overwriting the previous version and close it.

Please note! If you open this file again, you will have to do the same operation again. The numbers are automatically converted to scientific format when opening a .csv file.



1st preliminary step : preparation of the T+1 collection template



Summary of the manipulations in the 1st preliminary step





2nd preliminary step : preparation of the pre-existing data template

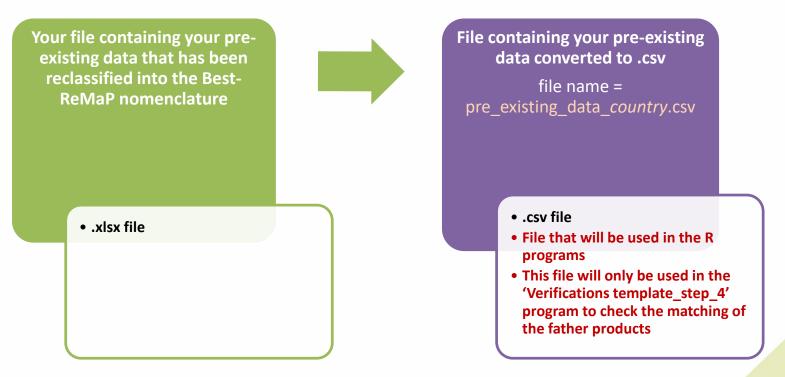
- → You must make a copy of your file containing your pre-existing data that has been reclassified into the Best-ReMaP nomenclature. You must save this copy in .csv format under the name pre_existing_data_country.csv (with the name of your own country)
- \rightarrow You can follow the procedure on **pages** <u>19 to 24</u> for creating the copy in .csv format.
- → You should also follow the procedure on pages <u>24 to 28</u> each time you open the file "pre_existing_data_country.csv" so that you do not lose any barcode information





2nd preliminary step : preparation of the pre-existing data template









<u>**3**rd preliminary step : creation of the working folder</u>

| 🔲 💿 T+1 statistic programs x 💿 T+1 statistic programs x + | × |
|--|----|
| 🔶 - C 🞧 🗈 https://portal.nijz.si/ssf/a/c/p_name/ss_forum/p_action/1/binderld/21932/entityType/folder/ac 🖉 A 🏠 🛟 🗘 Pas en cours de synchronisation 👔 | |
| Phomas Laguittor Domov eMail HelpDesk Ura Potni nalog Internet Geslo | - |
| C Search | G. |
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| New - Share - Delete Add Files More - Image: State Author Image: State Author Date | 0 |
| Data analysis T+1 statistic programs T0 report frame T0 statistics programs Data collections | |
| Draft deliverables New technologies ar Priority food groups Priority food groups Multiple State S | |
| permalink/novl_url/1 You must unzip this folder before using it | |



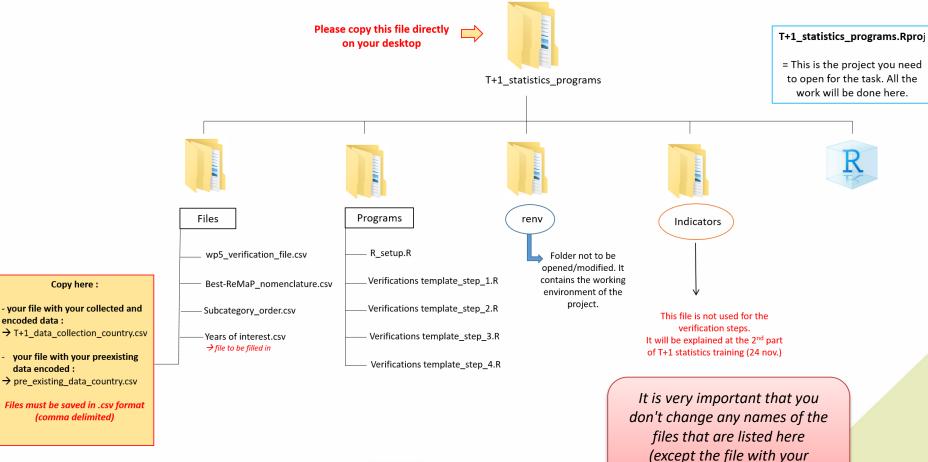
Copy here :

encoded data :

data encoded :

Preliminary steps

3rd preliminary step : creation of the working folder





collected and encoded data)



4th preliminary step : preparation of the file "Years of interest.csv"

- → In the working folder T+1_statistics_programs that you copied to your desktop in the 3rd preliminary step, there is a file called "Years of interest.csv" in the folder 'Files'.
- → Before starting the task 5.4.1, we asked you to select which years of each category of your pre-existing data will be used for pairing + comparisons/creation of indicators with the data collected during Best-ReMaP. The selected years are the ones we called "years of interest".
- → You will therefore need to edit the file "Years of interest.csv" manually by entering the years of interest (those that you have selected) of your pre-existing data for each Best-ReMaP category.
- → Once you have modified this file, you should save the changes. This file will be used in the 4th data verification step (page 166)

see the following slide for an example





4th preliminary step : preparation of the file "Years of interest.csv"

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| > ransferts (K:) > DER (L:) 5 élément(s) 1 élément sélectionné 3 | 17 octet(s) | | **** Co-funded by t | ne European Union's | | | | |

Health Programme (2014-2020)



4th preliminary step : preparation of the file "Years of interest.csv"

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| $\begin{array}{c c} & & & \\ & & & \\$ | = = ● ≫ • ₽ 1 = = = ● 1 Alignment | Vrap Text General Merge & Center + Singer + 9 Singer Ni | | | | | | | |
| D20 • : × ✓ fx | | | Column 'Year_of_interest_1' : you must enter for each category the selected year of interest from your | | | | | | |
| A B | с | D | "pre_existing_data_ <i>country</i> .csv" file. | | | | | | |
| 1 Category_code Category_name | Year_of_interest_1 | Year_of_interest_2 | (other years of collection for the category will not be taking | | | | | | |
| 2 18 Bread products | | | | | | | | | |
| 3 1 Breakfast cereals | | | into account during the creation of indicators) | | | | | | |
| 4 5 Delicatessen meats and similar | | | | | | | | | |
| 5 3 Fresh dairy products and desserts | | | | | | | | | |
| 6 9 Soft drinks | | | Column 'Year_of_interest_2': you must enter the | | | | | | |
| 8 | | | other year of interest of the category if there is a | | | | | | |
| 9 | | | , , , | | | | | | |
| 10 | | | second year of interest for the category (a collection | | | | | | |
| 11 | | | | | | | | | |
| 12 | | | may have occurred on two consecutive years). If | | | | | | |
| 13 | | | there is only one year of interest for the category, it | | | | | | |
| 14 | | | | | | | | | |
| 15 | | | should be repeated in this column. | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | • If you do not have pre-existing data for one or more | | | | | | |
| 19 | | | , | | | | | | |
| 20 | | | of the categories monitored in Best-ReMaP, you must | | | | | | |
| 21 | | | delete the row(s) for that/those category(ies). | | | | | | |
| Years of interest ⊕ | | | | | | | | | |



Preliminary steps

4th preliminary step : preparation of the file "Years of interest.csv"

| ⊟ ちਾ∂ਾ≊ਾ = | Years | s of interest.csv - Excel 📼 - O X |
|--|---|--|
| File Home Insert Page Layout Formulas Image: Second | | General Example |
| Clipboard rs Font | rs Alignment rs | From your "pre_existing_data_country.csv" file: You have selected 2017 as the year of interest for the year of interest f |
| A B 1 Category_code Category_name 2 18 Bread products 3 1 Breakfast cereals 4 5 Delicatessen meats and similar 5 9 Soft drinks 6 7 8 9 | C D Year_of_interest_1 Year_of_interest_2 2017 2017 2016 2016 2017 2017 2018 2017 2019 2016 2015 2016 | Fournave selected 2017 as the year of interest for the categories : Bread products, Delicatessen meats and similar. You have selected 2016 as the year of interest for the category : Breakfast cereals |
| 9 10 11 12 13 14 15 16 17 18 | | You have selected 2015 and 2016 as years of interest for the category : Soft drinks. Indeed, products from this category were collected from December 2015 to January 2016. |
| 18 19 20 21 ✓ Years of interest ⊕ | | You have no pre-existing data for the sub-category Fresh dairy products and desserts, so the row has been deleted. |





Preliminary steps

4th preliminary step : preparation of the file "Years of interest.csv"

| E | ∃ ੯ਾ ੈ | ▼ ∓ | | | | | Ye | ars of i |
|-----|---|-------------------------------------|----------------|------------|----------|-----------|--------------|----------|
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| | Clipboard | Fa For | nt 🖙 | | Align | iment | 5 | |
| F1 | 3 🔻 : | × ✓ fx | | | | | | |
| | А | В | | C | | | D | E |
| 1 | Category_code | | | Year_of_in | terest_1 | Year_of_i | nterest_2 | |
| 2 | | Bread products | | | | | | |
| 3 | | Breakfast cereals | 1.1.1 | | | | | |
| 4 | | Delicatessen meats | | | | | | |
| 5 | | Fresh dairy products Soft drinks | s and desserts | | | | | |
| 7 | | Baby food | | | | | | |
| 8 | 41 | baby roou | | | | | | |
| 9 | | 1 | | | | | | |
| 10 | | | | | | | | |
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| 20 | | | | | | | | |
| 21 | | | | | | | | |
| | < → Yea | rs of interest | + | | | | | |
| Rea | dy | | | | | | | |

File "Years of interest.csv"

Share

100 %

38

- This file is a key file for the rest of the programs as it allows the identification of the categories for which indicators will be generated. If a category for which you have pre-existing data is forgotten in this file, then it will not be taken into account for the creation of indicators. *(see next training on 24 November)*
- If you have other categories that are not monitored in Best-ReMaP but for which you wish to generate indicators, you must enter this category in the file. But these indicators will not appear in the Best-ReMaP reports.

Example:

You wish to generate indicators for another category which is *Baby food (41)*, you must enter the category_code and category_name + the years of interest of your pre-existing data for this category



2) Installation of the necessary equipment and presentation of the Rstudio software

A. Preliminary steps

B. Installation of software

C. Introduction to R studio

D. Cleaning of the Rstudio interface





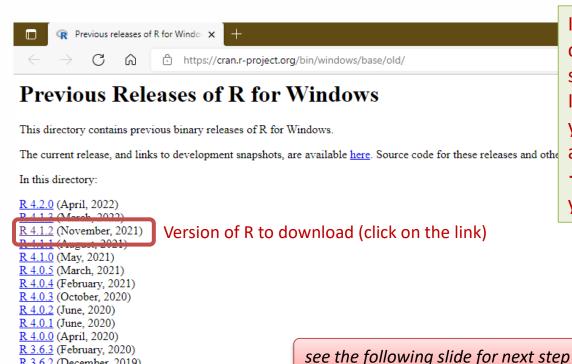
<u>R 3.6.2</u> (December, 2019) <u>R 3.6.1</u> (July, 2019) R 3.6.0 (April, 2019)

Installation of R software

<u>Download the R software:</u>

Follow this link and select **version 4.1.2** (which is not the latest version but the version on which the programs were created):

https://cran.r-project.org/bin/windows/base/old/



 $\langle 0 \rangle$

If you already have R on your computer, check which version of the software you have. If it is a version **other than 4.1.2**, then you need to download version **4.1.2** as shown.

 \rightarrow You will have **2 versions of R** on your computer.

40



Installation of R software

• Download the R software:

Follow this link and select **version 4.1.2** (which is not the latest version but the version on which the programs were created):

https://cran.r-project.org/bin/windows/base/old/

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| <u>R-4.1.2-win.exe</u> | 2021-11-01 20:30 | 86M | Ince you have downloaded this file, you can open it and click on |
| README.R-4.1.2 | 2021-11-01 19:14 | 8.5K • | he R software will then be installed on your computer. |
| SVN-REVISION.R-4 | <u>.1.2</u> 2021-11-01 19:14 | | / 1 |
| md5sum.txt | 2021-11-01 20:30 |) 50 | |
| release.html | 2021-11-01 19:14 | 90 | |
| rw-FAQ.html | 2021-11-01 19:14 | 99K | |
| lpache Server at cran.r-p | roject.org Port 443 | | During the software installation, accept all the basic settings by clicking 'next' at each step |





Installation of R software

Tutorial video to download and install the R software

→ This video is available at any time on the Best ReMaP intranet in the WP5 section <u>https://portal.nijz.si/ssf/a/c/p_name/ss_forum/p_action/1/entityType/folderEntry/action/view_permalink/entryId/77697/novl_url/1</u>



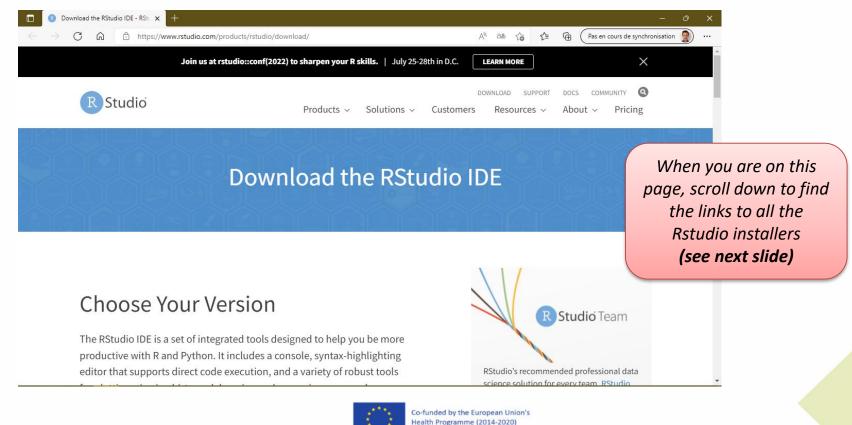


Installation of Rstudio software

• Download the Rstudio software:

Follow this link :

https://www.rstudio.com/products/rstudio/download/





Installation of Rstudio software

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|--------------|---------------|---------|----------|--|------------------------|---|---------------------------------|---|----------|
| \leftarrow | \rightarrow | С | ଜ | https://www.rstudio.com/products/rstudio/download/ | A ^N að to t | Ē | Pas en cours de synchronisation | | |
| | | | | | | | | | |

All Installers

Linux users may need to import RStudio's public code-signing key 🗹 prior to installation, depending on the operating system's security policy.

RStudio requires a 64-bit operating system. If you are on a 32 bit system, you can use an older version of RStudio.

| OS | Download | Size | SHA-256 |
|-----------------------|---|-----------|----------|
| Windows 10/11 | L RStudio-2022.02.2-485.exe | 177.27 MB | 74187a33 |
| macOS 10.15+ | 📥 RStudio-2/22.02.2-485.dmg | 217.09 MB | cda82e98 |
| Ubuntu 18+/Debian 10+ | 🛓 rstudio-2022.02.2-485-amd64.deb | 128.58 MB | 508a6e9c |
| Fedora 19/Red Hat 7 | 🛓 vtudio-2022.02.2-485-x86_64.rpm | 144.66 MB | 7400234c |
| Fedora 34/Red Hat 8 | k rstudio-2022.02.2-485-x86_64.rpm | 144.70 MB | ad00e2c5 |
| Debian 9 | 🛓 rstudio-2022.02.2-485-amd64.deb | 128.91 MB | 8edcf614 |
| OpenSUSE 15 | ★ rstudio-2022.02.2-485-x86_64.rpm | 129.31 MB | e54c69f6 |
| | | | |

- Click to download this .exe file.
- Once you have downloaded this file, you can open it and click on 'Run'.
- The Rstudio software will then be installed on your computer.



During the software installation, accept all the basic settings by clicking 'next' at each step



Installation of Rstudio software

Tutorial video to download and install the Rstudio software

→ This video is available at any time on the Best ReMaP intranet in the WP5 section <u>https://portal.nijz.si/ssf/a/c/p_name/ss_forum/p_action/1/entityType/folderEntry/action/view_permalink/entryId/77698/novl_url/1</u>





Overview of R et Rstudio interfaces



→ No processing will be done on this interface
→ Software needed to be able to work on Rstudio



- → Interface that allows the software to be used = environment that facilitates input, code execution and visualisation of results
- ightarrow Programs will be running through RStudio





Overview of R



😨 RGui (64-bit) - [R Console]

R Fichier Edition Voir Misc Packages Fenètres Aide



R version 4.1.2 (2021-11-01) -- "Bird Hippie" Copyright (C) 2021 The R Foundation for Statistical Computing Platform: x86_64-w64-mingw32/x64 (64-bit)

R est un logiciel libre livré sans AUCUNE GARANTIE. Vous pouvez le redistribuer sous certaines conditions. Tapez 'license()' ou 'licence()' pour plus de détails.

R est un projet collaboratif avec de nombreux contributeurs. Tapez 'contributors()' pour plus d'information et 'citation()' pour la façon de le citer dans les publications.

Tapez 'demo()' pour des démonstrations, 'help()' pour l'aide en ligne ou 'help.start()' pour obtenir l'aide au format HTML. Tapez 'q()' pour quitter R.

>

Overview of the R software when you open it This is just for information purposes as you will not be working on this software but on the **Rstudio interface**.



2) Installation of the necessary equipment and presentation of the Rstudio software

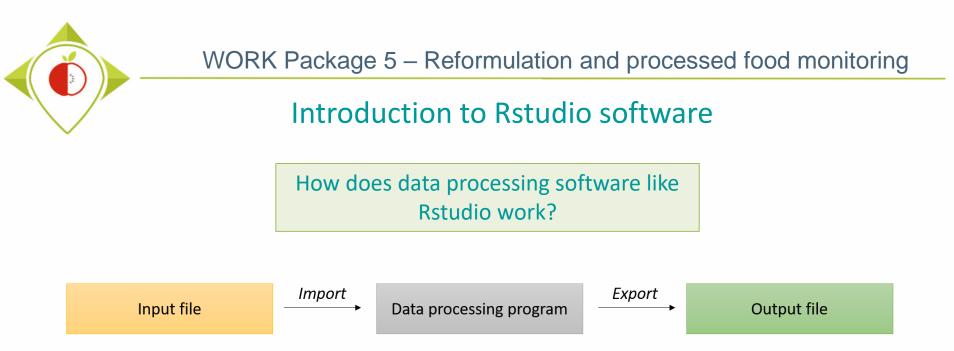
A. Preliminary steps

B. Installation of software

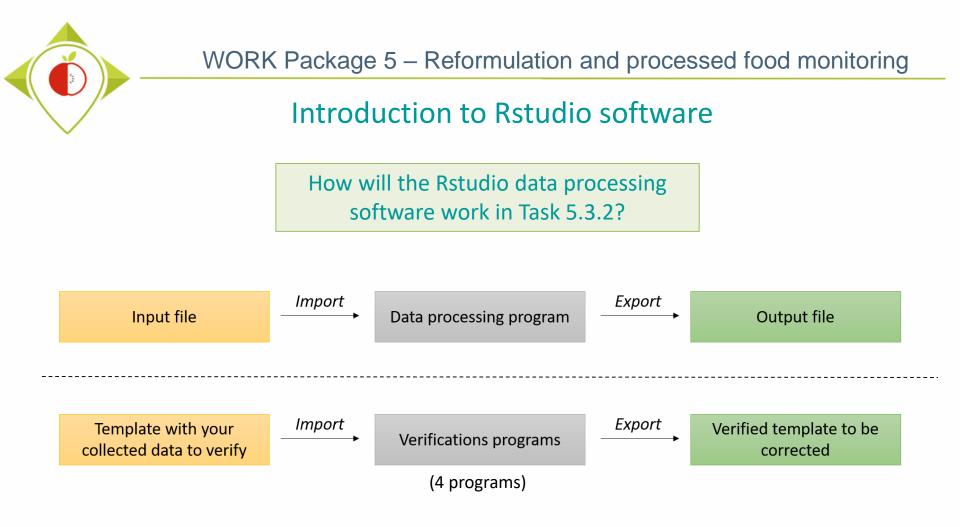
C. Introduction to R studio

D. Cleaning of the Rstudio interface







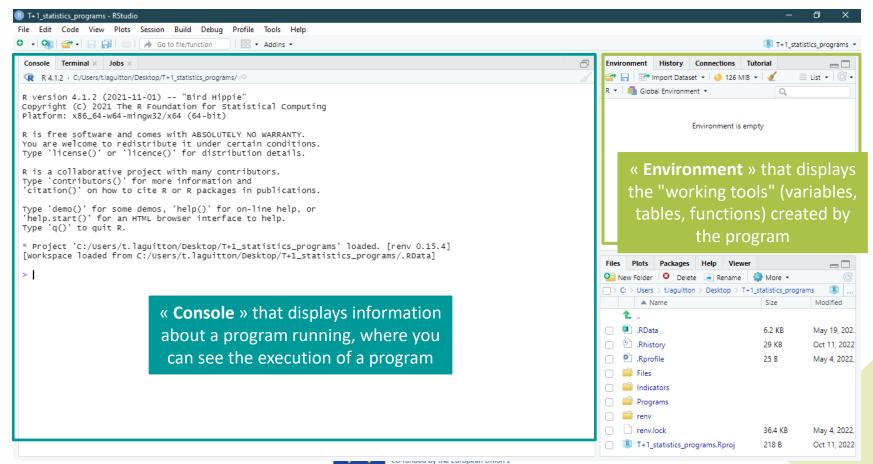






Introduction to Rstudio software

Overview of the Rstudio software when you open it for the first time.







Introduction to Rstudio software

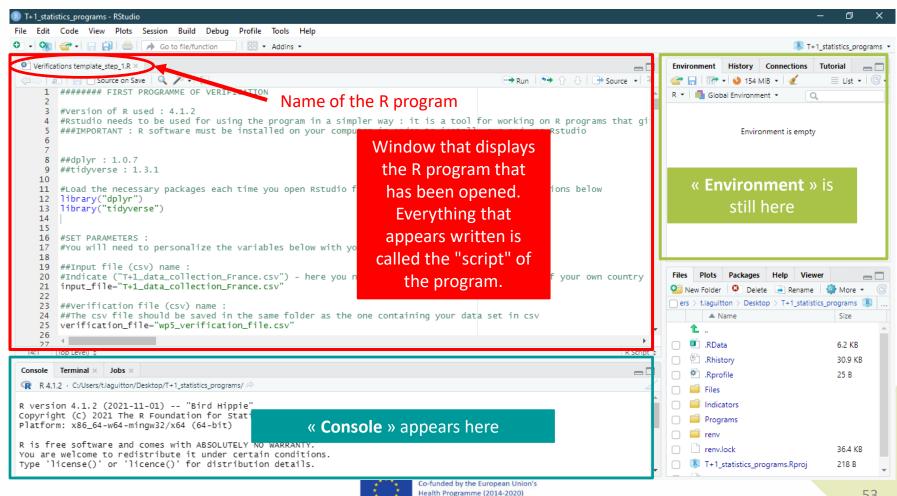
How to open a program in Rstudio

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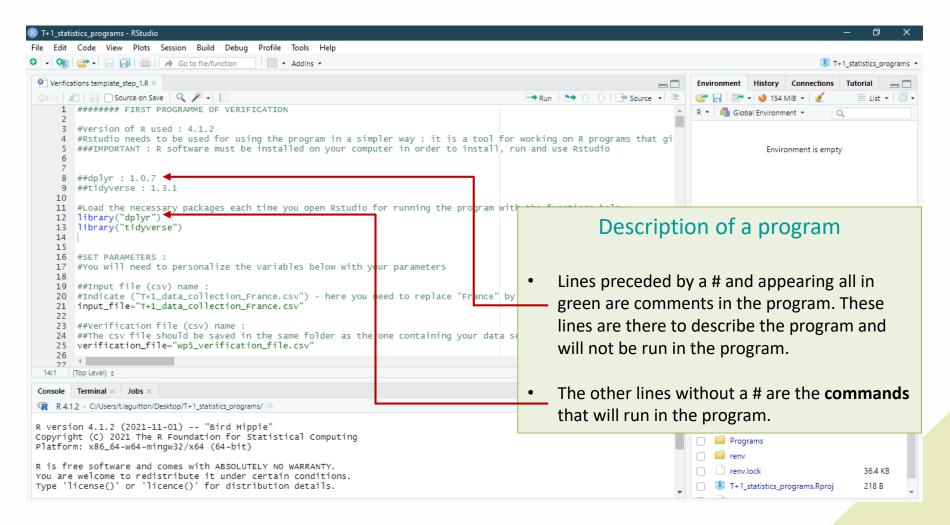
Introduction to Rstudio software

Rstudio when a program is opened





Introduction to Rstudio software







Introduction to Rstudio software

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| 3 #Version of R used : 4.1.2 | | | |
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| For all programs you will have to make small changes (very few, only on the set parameters part). #SET PARAMETERS T #You will need t | nctions below | | |
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| the save button to save the modifications to | | ers > t.laguitton > Desktop > T+1_statistics_ | |
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| R is free software and comes with ABSOLUTELY NO WARRANTY. | | | 26.4.10 |
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| Type 'license()' or 'licence()' for distribution details. | - | T+1_statistics_programs.Rproj | 218 B |



Co-funded by the European Union's Health Programme (2014-2020)



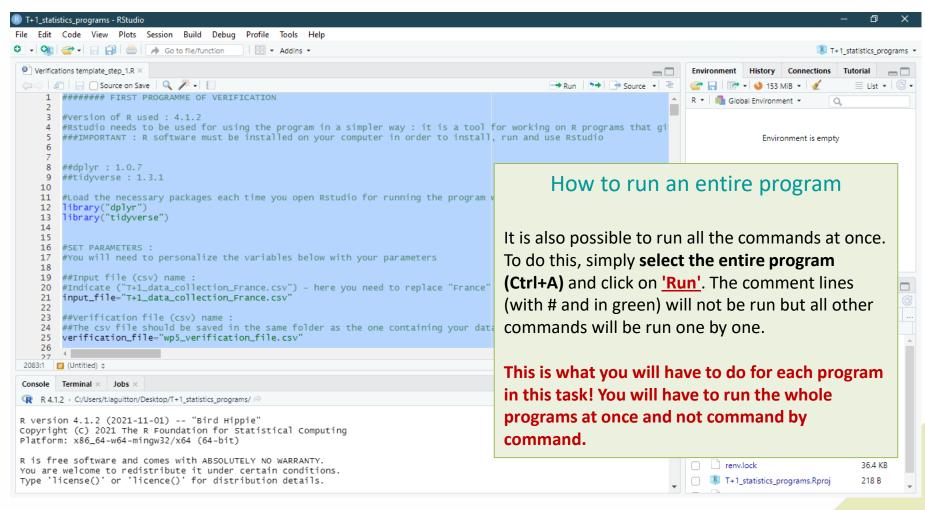
Introduction to Rstudio software

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| 3 #Version of R used : 4.1.2 4 #Rstudio needs to be used for using the program in a simpler way : it is a tool for working 5 ###IMPORTANT : R software must be installed on your computer in order to install, run and us 6 7 | |
| 8 ##dp]yr : 1.0.7 9 ##tidyverse : 1.3.1 10 | |
| <pre>11 #Load the necessary packages each time you open Rstudio for running the program with the fun 12 library("dplyr") 13 library("tidyverse") 14 15</pre> | nctions below |
| <pre>16 #SET PARAMETERS : 17 #You will need to personalize the variables below with your parameters 18 19 ##Input file (csv) name : 20 #Indicate ("T+1_data_collection_France.csv") - here you need to replace "France" by the name</pre> | How to run a command |
| <pre>21 input_file="T+1_data_collection_France.csv" 22</pre> | To run a command, simply select it (as |
| 23 ##Verification file (csv) name : 24 ##The csv file should be saved in the same folder as the one containing your data set in csv 25 verification_file="wp5_verification_file.csv" | |
| 26 4 27 4 217 (Top Level) \$ | <u>'Run' button (or Ctrl+Enter).</u> |
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| onsole Terminal × Jobs × | |
| R 4.1.2 · C/Users/Llaguitton/Desktop/T+1_statistics_programs/ version 4.1.2 (2021-11-01) "Bird Hippie" opyright (C) 2021 The R Foundation for Statistical Computing latform: x86_64-w64-mingw32/x64 (64-bit) | iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii |
| is free software and comes with ABSOLUTELY NO WARRANTY. ou are welcome to redistribute it under certain conditions. ype 'license()' or 'licence()' for distribution details. | Image: State of the state o |





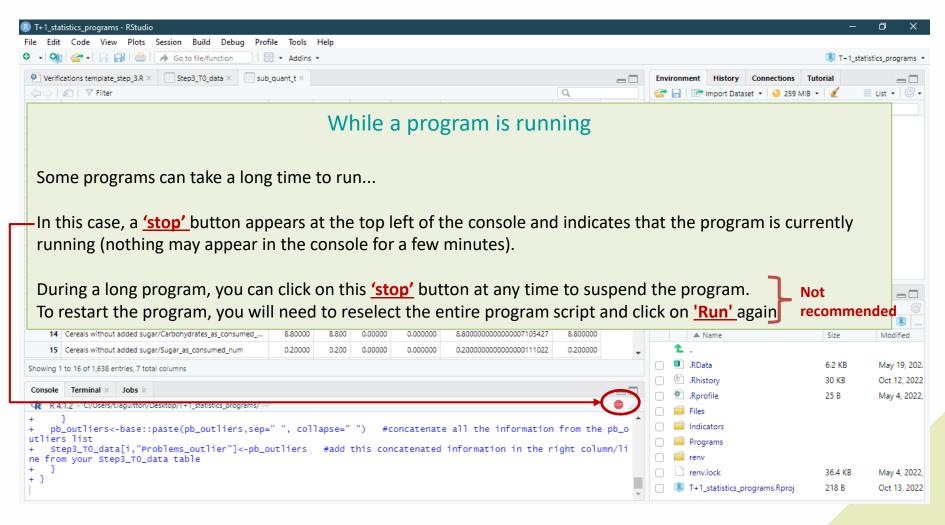
Introduction to Rstudio software







Introduction to Rstudio software

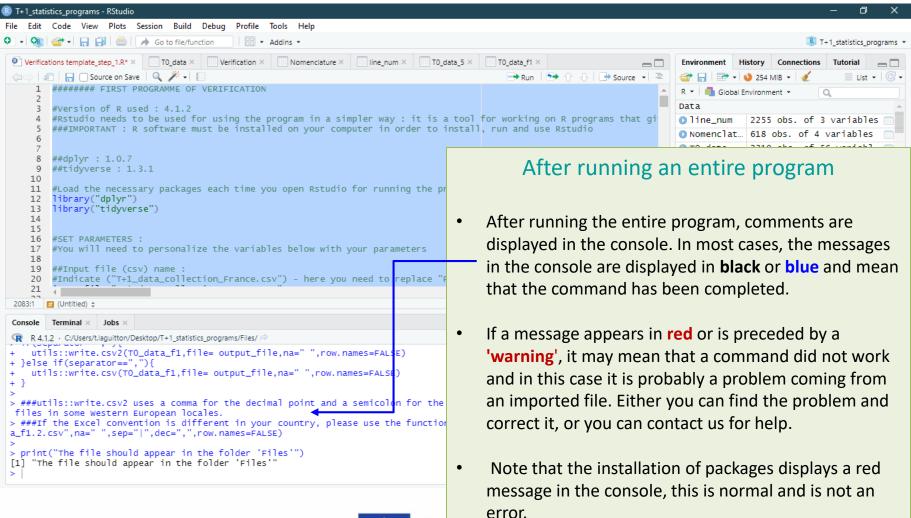




Co-funded by the European Union's Health Programme (2014-2020)



Introduction to Rstudio software

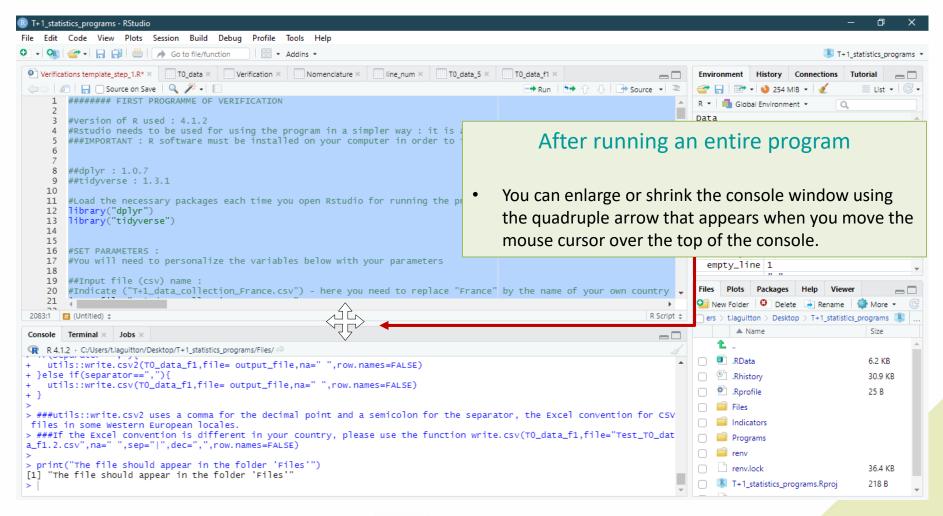




Health Programme (2014-2020)



Introduction to Rstudio software

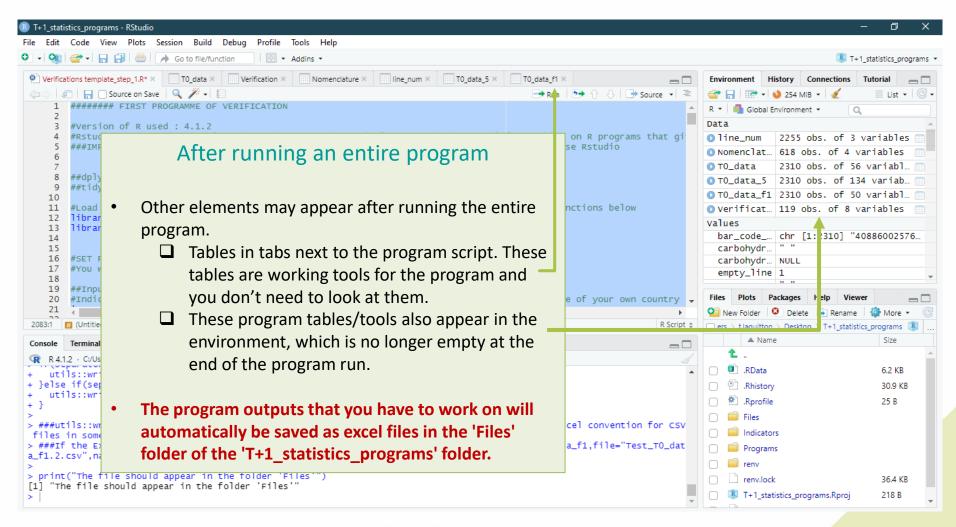




Co-funded by the European Union's Health Programme (2014-2020)



Introduction to Rstudio software







2) Installation of the necessary equipment and presentation of the Rstudio software

A. Preliminary steps

B. Installation of software

C. Introduction to R studio

D. Cleaning of the Rstudio interface





| | cations template | | Verif | icatio | Nomenclature | line_nur T0_data_5 | T0_data_f | | | | |
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| 2 | 1651 | NA | Ireland | 2021 | Breakfast cereals | Traditional muesli flakes | 4088600052724 🔲 💽 line_num 2255 obs. of 3 variables 📖 | | | | |
| 3 | 1653 | NA | Ireland | 2021 | Breakfast cereals | Cereals without added sugar | | | | | |
| 4 | 1654 | NA | Ireland | 2021 | Breakfast cereals | Cereals without added sugar | Cleaning Rstudio interface (1) | | | | |
| 5 | 1655 | NA | Ireland | 2021 | Breakfast cereals | Cereals without added sugar | 0 | | | | |
| 6 | 1657 | NA | Ireland | 2021 | Breakfast cereals | Traditional muesli flakes | | | | | |
| 7 | 1658 | 603 | Ireland | 2021 | Breakfast cereals | High-fibre cereals | program, you must 'clean' the '1+1' statistics program | | | | |
| 8 | 1659 | NA | Ireland | 2021 | Breakfast cereals | Chocolate-flavoured cereals | | | | | |
| 9 | 1661 | 937 | Ireland | 2021 | Breakfast cereals | Chocolate-flavoured cereals | | | | | |
| 10 | 1663 | 586 | Ireland | 2021 | Breakfast cereals | Sweet cereal flakes | - Rstudio' interface. | | | | |
| 11 | 1665 | 916 | Ireland | 2021 | Breakfast cereals | Crunchy fruit muesli | | | | | |
| 12 | 1672 | NA | Ireland | 2021 | Breakfast cereals | Crunchy muesli with nuts_see | | | | | |
| 13 | 1674 | 597 | Ireland | 2021 | Breakfast cereals | Sweet cereal flakes | First, you must delete all the tables/tools that have | | | | |
| 14 | 1675 | NA | Ireland | 2021 | Breakfast cereals | Crunchy fruit muesli | been created and the script of the program. | | | | |
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| | | /t.laguitton/Desktop/T+1_sta | tistics program | ns/Files/ 🗇 | | | right of each tab. | | | | |
| > ###u | tils::writ | e.csv2 uses a com | nma for t | | nal point and a s | emicolon for the separat | • | | | | |
| > ###I a_f1.2 > > prin | f the Exce .csv",na=' t("The fil | Vestern European l 21 convention is o 21 ",sep=" ",dec=", 1e should appear in 1ould appear in th | different ,",row.nam in the fo | mes=FAL: lder 'F | SE) iles'") | use the function write. | csv(T0_data_f1,file="Test_T0_dat | | | | |

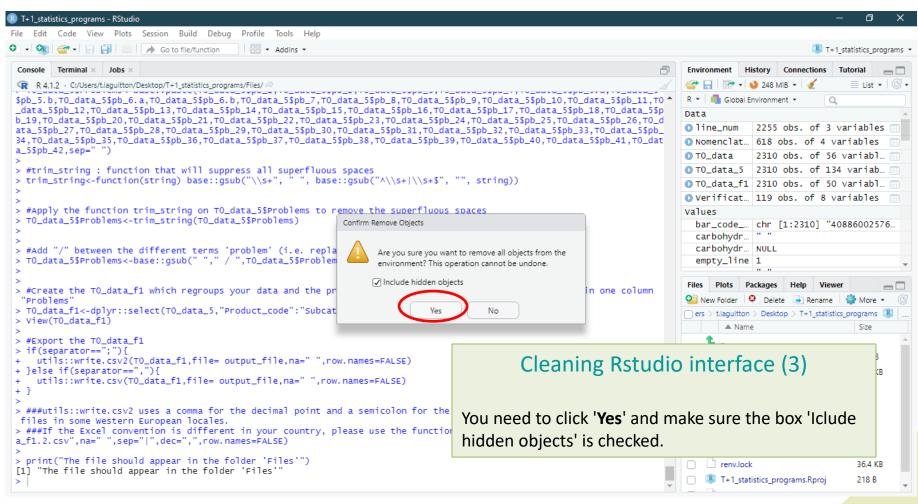




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| Console Terminal × Jobs × | Environment History Connections Tutorial |
| <pre>> #Add "/" between the different terms 'problem' (i.e. replace the spaces by /) > T0_data_5\$Problems<-base::gsub(" "," / ",T0_data_5\$Problems) > #Create the T0_data_f1 which regroups your data and the problems that needs to clean the problems" > T0_data_f1<-dplyr::select(T0_data_5,"Product_code":"Subcategory_code","bar_code to clean the environment. > #Export the T0_data_f1 > if(separator==";"){ + utils::write.csv2(T0_data_f1,file= output_file,na=" ",row.names=FALSE) + gelse if(separator==","){</pre> | the working |
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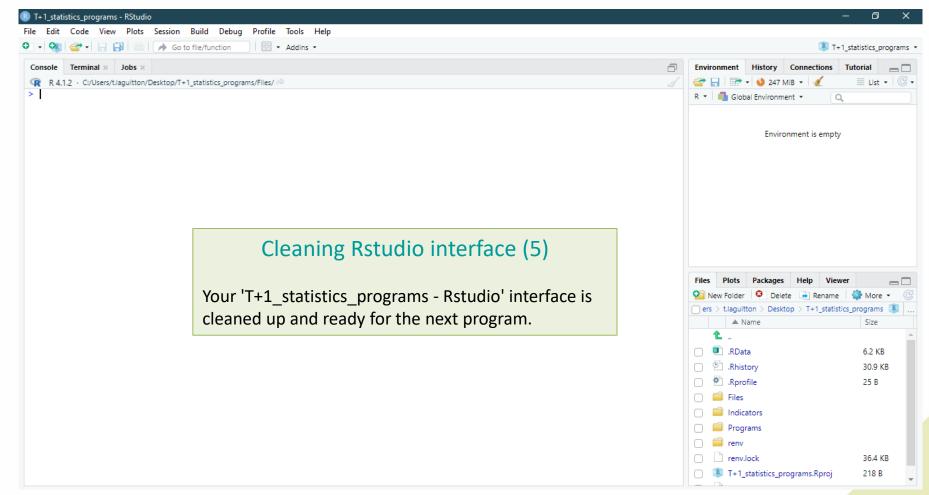




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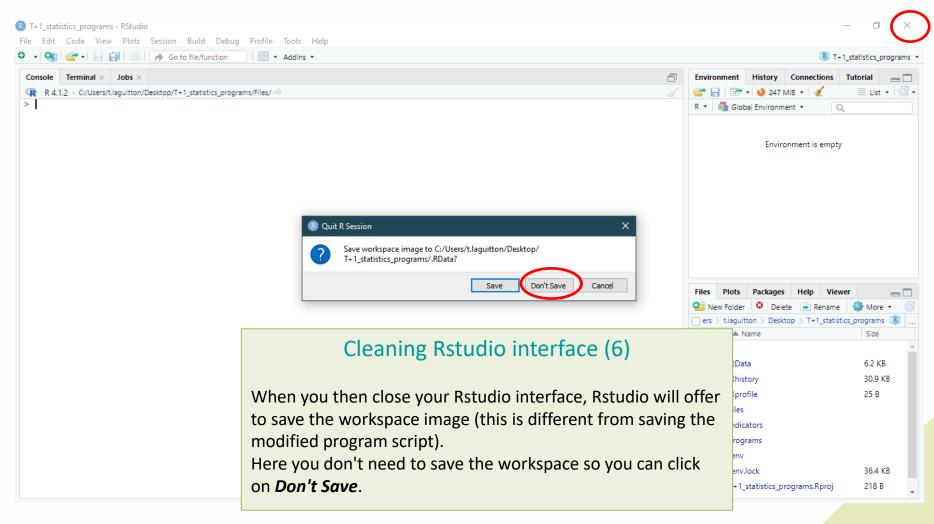
















3) Running of the programs

A. Part 1 : R setup program (page 78)

B. Part 2 : Verification programs and template cleaning/standardization (page 88)

i. 1st verification program : 'Verifications template_step_1' (page 90)

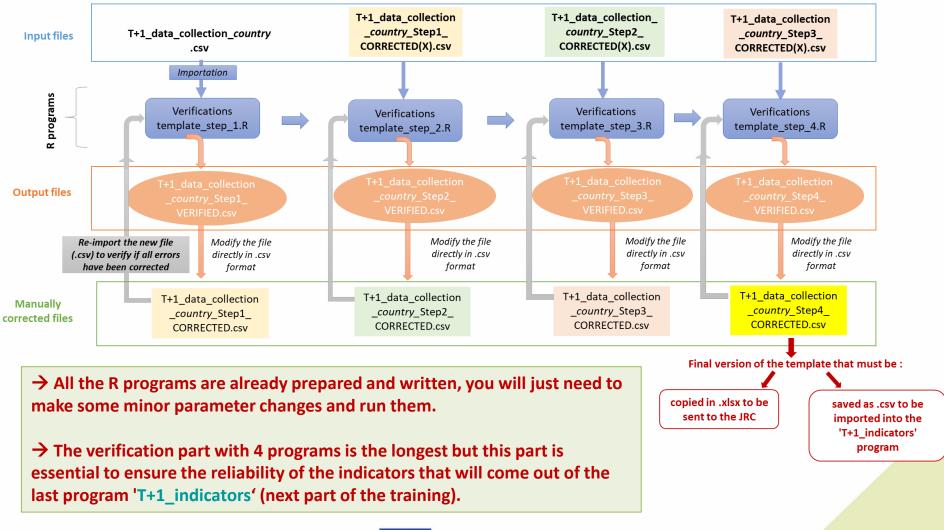
ii. 2nd verification program : 'Verifications template_step_2' (page 119)

iii. 3rd verification program : 'Verifications template_step_3' (page 144)

iv. 4th verification program : 'Verifications template_step_4' (page 166)



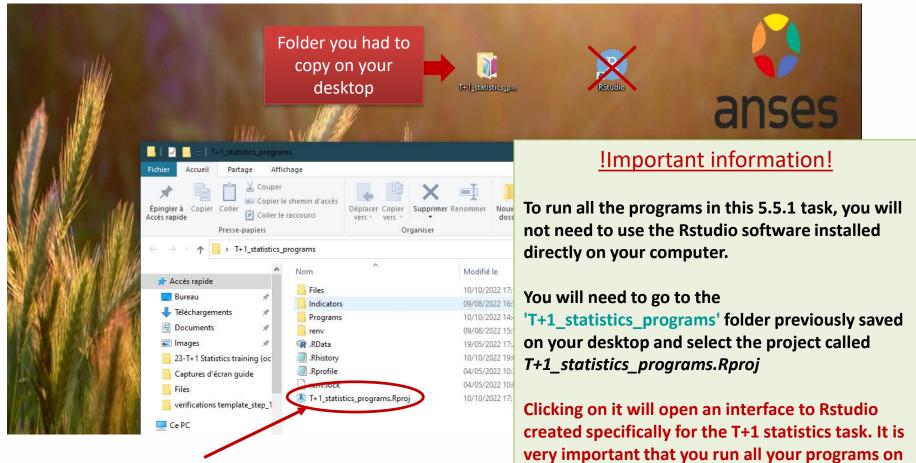
Description of the different 'R' programs







Rstudio interface to use



Rstudio interface created specifically for the project that you always have to work with



this Rstudio interface.

Rstudio interface to use

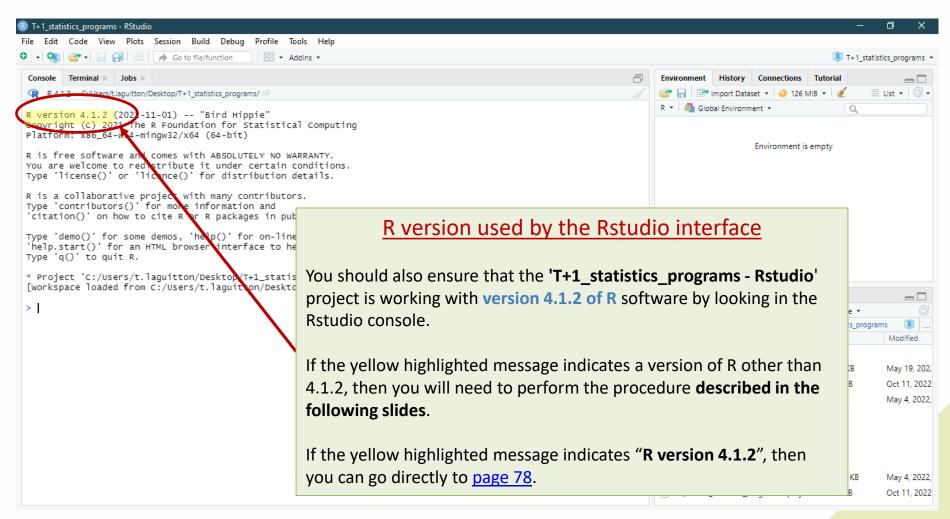
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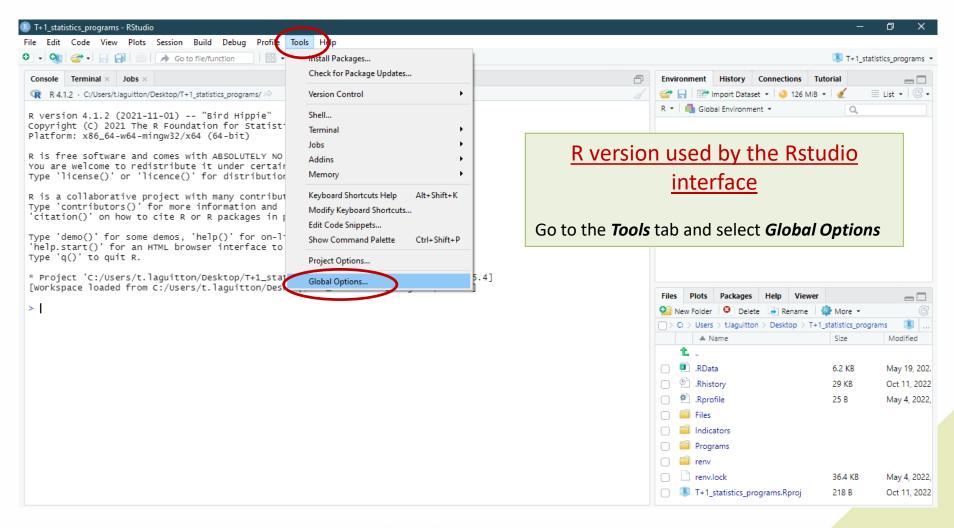
Rstudio interface to use







Rstudio interface to use

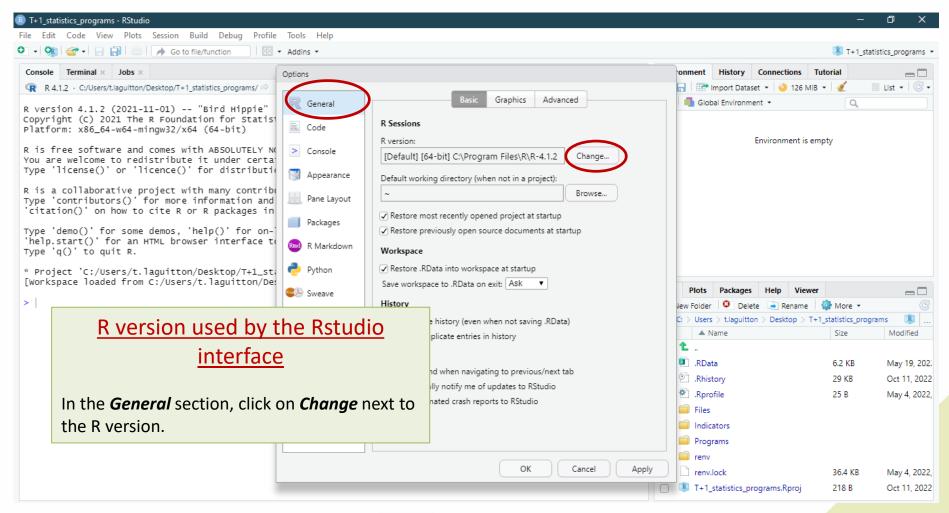




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Rstudio interface to use



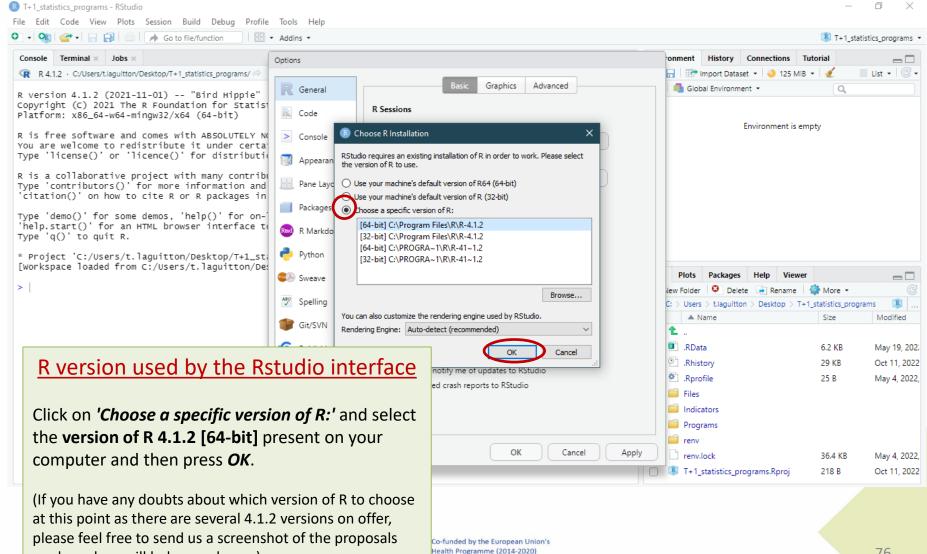




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WORK Package 5 – Reformulation and processed food monitoring

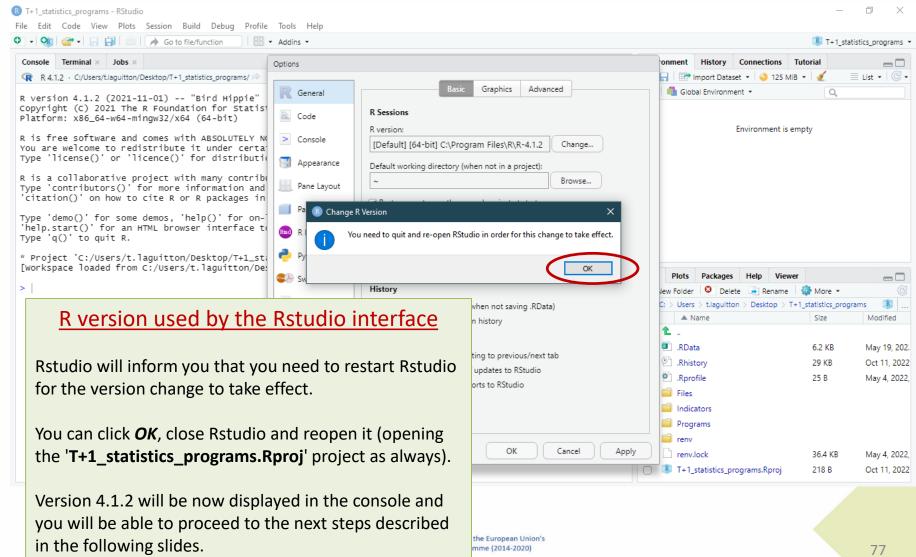
Rstudio interface to use



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Rstudio interface to use





3) Running of the programs

A. Part 1 : R setup program

B. Part 2 : Verification programs and template cleaning/standardization

i. 1st verification program : 'Verifications template_step_1'

ii. 2nd verification program : 'Verifications template_step_2'

iii. 3rd verification program : 'Verifications template_step_3'

C. Part 3 : Indicators and statistics production program





'R_setup' program

<u>Presentation of the 'R_setup' program :</u>

Just after installing the R and R studio software and before starting the verification programs, you will need to run the 'R_setup' program just once. This will allow the installation of packages that contain functions that will be needed for data verification and the creation of indicators.

<u>Requirements before starting the program 'R_setup' :</u>

- Before running the 'R_setup' program, you must ensure that you have **downloaded** the **R** and **Rstudio** software.
- You must also ensure that you are working on the Rstudio interface called *T+1_statistics_programs.Rproj* located in the 'T+1_statistitics_programs' folder on your desktop (see 2nd preliminary step <u>pages 32-33</u>)





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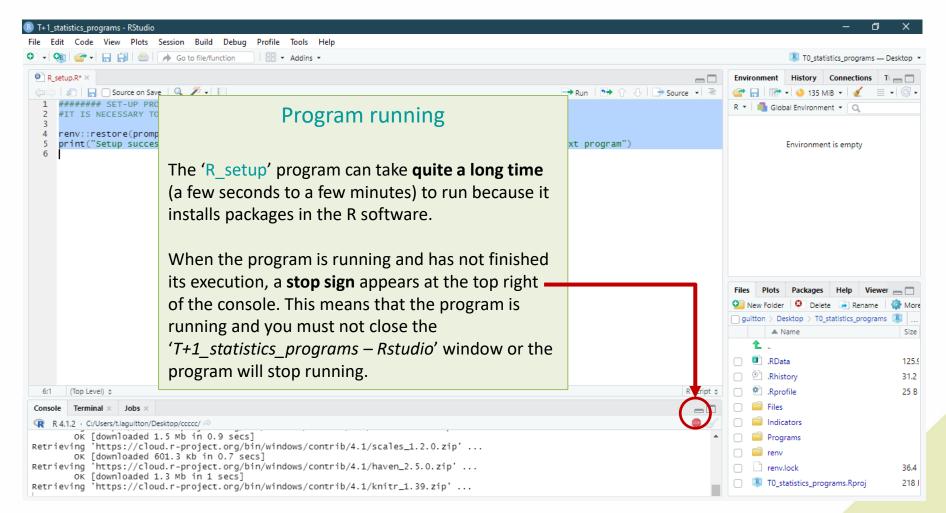


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Running the 'R_setup' program





Co-funded by the European Union's Health Programme (2014-2020)



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| <pre>4 renv::restore(prompt=F) 5 print("Setup successfully completed, you can close the R-setup program tab and proceed to the next pro 6 </pre> | At the end of the 'R_setup' program execution, you should see the sentence highlighted in yellow in |
| 5:109 (Top Level) ≎ Console Terminal × Jobs × | the console. This means that the program has |
| Moving knitr [1.39] OK [installed binary] Moving knitr [1.39] into the cache OK [moved to cache in 13 milliseconds] Installing ps [1.7.0] OK [installed binary] Moving ps [1.7.0] into the cache OK [moved to cache in 27 milliseconds] | run correctly and the packages have been installed successfully . |
| <pre>Installing rmarkdown [2.14] OK [installed binary] Moving rmarkdown [2.14] into the cache OK [moved to cache in 40 milliseconds] Installing testthat [3.1.4] OK [installed binary] Moving testthat [3.1.4] into the cache OK [moved to cache in 13 milliseconds] Installing uuid [1.1-0] OK [installed binary]</pre> | You can now close the tab with the 'R_setup' program script, clean up the console and move on to the next program (see next pages). |
| Moving uuid [1.1-0] into the cache OK [moved to cache in 42 milliseconds] > print("setup successfully completed, you can close the R-setup program tab and proceed to the next program [1] "Setup successfully completed, you can close the R-setup program tab and proceed to the next program" > | am") |





'R_setup' program

Tutorial video to run the Rsetup program

→ This video is available at any time on the Best ReMaP intranet in the WP5 section <u>https://portal.nijz.si/ssf/a/c/p_name/ss_forum/p_action/1/entityType/folderEntry/ac_tion/view_permalink/entryId/77696/novl_url/1</u>





3) Running of the programs

A. Part 1 : R setup program

B. Part 2 : Verification programs and template cleaning/standardization

i. 1st verification program : 'Verifications template_step_1' (page 90)

ii. 2nd verification program : 'Verifications template_step_2' (page 119)

iii. 3rd verification program : 'Verifications template_step_3' (page 144)

iv. 4th verification program : 'Verifications template_step_4' (page 166)





Verification programs

- In this part, you will run 4 verification programs on your file : T+1_data_collection_*country*.csv
- This part is very important because it will check that there are no input errors in the template and that the data can be used for creating indicators.
 - You will need to run these programs in the following order:
 - 1) Verifications template_step_1.R
 - 2) Verifications template_step_2.R
 - 3) Verifications template_step_3.R
 - 4) Verifications template_step_4.R
- The only information that verification programs cannot check is the accuracy of the Best-ReMaP category and subcategory classification of the collected products. We therefore suggest that you carefully check the classification of your products collected before starting the verification programs.





3) Running of the programs

A. Part 1 : R setup program

B. Part 2 : Verification programs and template cleaning/standardization

i. 1st verification program : 'Verifications template_step_1'

ii. 2nd verification program : 'Verifications template_step_2'

iii. 3rd verification program : 'Verifications template_step_3'

iv. 4th verification program : 'Verifications template_step_4'





1st verification program : 'Verifications template_step_1'

Presentation of the 'Verifications template step_1' program :

- This is the first out of the 4 programs of verification of the data entered in your template.
- In this program, data entry problems are checked (misspelling of information, missing mandatory fields, ...)

<u>Requirements before starting the program 'Verifications template_step_1' :</u>

- Before running the program, you need to make sure that a copy of your T+1 collection template is saved in .csv format in the folder 'Files' in the 'T+1_statistics_programs' folder that you have saved on your desktop.
- You need to make sure that your template have been renamed : T+1_data_collection_country.csv (with the name of your own country)
- You need to make sure that the barcodes in your file T+1_data_collection_country.csv appear in full and not in scientific format (see procedure pages 24→28)

Your Rstudio interface must have been cleaned up before running the program. All cleaning steps are described on pages $62 \rightarrow 68$.





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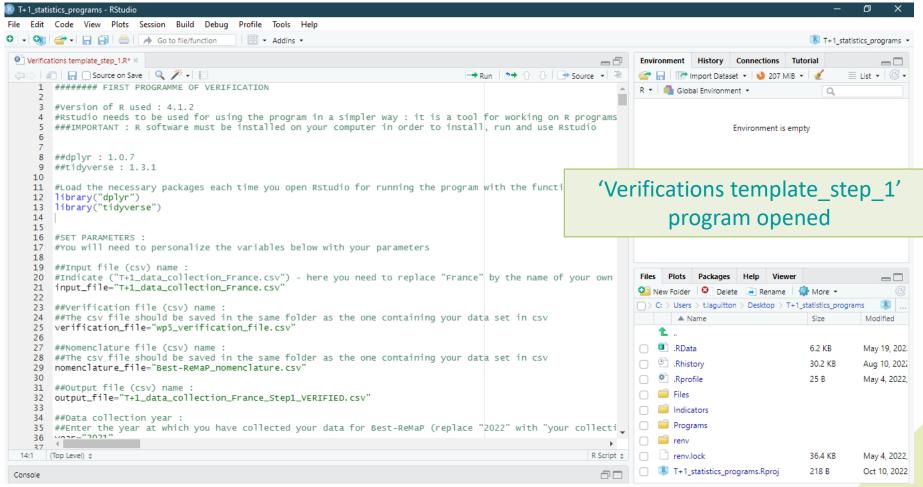




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Running of 'Verifications template_step_1' program

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| A | | Konstanulate stor 4 Da M |
| | | tions template_step_1.R* × |
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| | | library("tidyverse") |
| | 14 | |
| | 15 16 | #SET PARAMETERS : |
| | 17 | "You will need to personalize the variables below with your pa |
| | 18 | ····· ···· ···· ···· ··· ··· ··· ··· · |
| | 19 | ##Input file (csv) name : |
| | 20 | #Indicate ("T+1_data_collection_France.csv") - here you need t |
| | 21 | input_file= <mark>"T+1_data_collection_France.csv"</mark> |
| | 22 23 | ##Verification file (csv) name : |
| | 24 | ##The csv file should be saved in the same folder as the one c |
| | 25 | verification_file="wp5_verification_file.csv" |
| | 26 | |
| | 27 | ##Nomenclature file (csv) name : |
| | 28 | ##The csv file should be saved in the same folder as the one c |
| | 29 | nomenclature_file="Best-ReMaP_nomenclature.csv" |
| | 30 31 | ##Output file (csv) name : |
| | 32 | output_file="T+1_data_collection_France_Step1_VERIFIED.csv" |
| | 33 | oucput_inter ini_uucu_confection_inunce_occpi_vekinico.cov |
| | 34 | ##Data collection year : |
| | 35 | ##Enter the year at which you have collected your data for Bes |
| | 36 | year="2021" |
| | 37 38 | #Optional - if the data collection overlaps two consecutive ye |
| | 39 | <pre>##IF YOU HAVE ONLY ONE YEAR OF DATA COLLECTION, INDICATE THE S year_2="2021"</pre> |
| | 40 | year _2- 2021 |
| | 41 | ##Indicate the separator used for saving your Excel file in cs |
| | 42 | separator=";" |
| | 43 | |
| | 44 | ##If you have used a specific alphabet (greek, etc) in your te |
| | 45 46 | special_alphabet= <mark>"NO"</mark> |
| | | **** |
| | 48 | <pre>#boro-actwd() # Cot the current working directory</pre> |
| | 49 | |
| 31: | 11 (| (Top Level) 💠 |
| Con | sole | |
| Con | | |
| | | |
| | | |

Beginning of each verification program

At the beginning of each verification program, there is a set parameters part (line 16). It is only in this part that you should change information.

In the first run of the verification program 1, you need to change the name of the country with your own country name in the input file (line 21) and the output file (line 32) of the R script.

You must indicate the year in which your T+1 data was collected. If the collection was carried out in the same year, you must enter this year twice (line 36 and 39). If your collection took place in two different years, you must enter both years.

You also need to indicate the separator used in your csv file (line 42). You have the choice only between ";" and ",". In Europe, the most commonly used separator in the csv format is the ";" (pre-filled in the program).

You also need to indicate if you have used a specific alphabet in your template (line 45). This field only concerns countries with a specific alphabet and is therefore pre-filled as "NO".

Example :

- input file = "T+1_data_collection_Ireland.csv"
- output file = "T+1_data_collection_Ireland_Step1_VERIFIED.csv"
- year = "2021"
- year_2 = "2022"
- Separator = ";"
- Special_alphabet = "NO"



| | 🐨 • 🔒 📄 🍌 Go to file/function 🔤 🔡 • Addins • | | | | | | <u>-</u> | tatistics_progr |
|--|--|---|---------------------------|---|--|--------------------------------|--------------------------------|-----------------|
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| 1 | ######## FIRST PROGRAMME OF VERIFICATION | A | R • | - Globa | Environment * | | Q | |
| 2 | | | | | | | ~ | |
| 3 | #Version of R used : 4.1.2 | | | | | | | |
| 4 | <pre>#Rstudio needs to be used for using the program in a simpler way : it is a tool ###IMPORTANT : R software must be installed on your computer in order to instal</pre> | | | | - · | | | |
| 5 6 | ###IMPORTANT : R Software must be installed on your computer in order to instal | i, run and use kstudio | | | Environmen | t is empty | | |
| 7 | | | | | | | | |
| 8 | ##dp]yr : 1.0.7 | Select the | onti | iro r | rogram | (C+ | rl_ A | 1 |
| 9 | ##tidyverse : 1.3.1 | | enu | | JUgraiii | | | V) |
| 10 | | | | | 1 | _ | | |
| 11 | #Load the necessary packages each time you open Rstudio for running the program | and press | ς 'Rι | unʻ | (or Ctrl+ | -Fnt | er) | |
| 12 | library("dplyr") | | 5 10 | | | LIIC | Cr) | |
| 13 | library("tidyverse") | | | | | | | |
| 14 | | | | | | | | |
| | | | | | | | | |
| 15 | ACT DIDNETEDS . | The program will | run | onti | roly | | | |
| 16 | #SET PARAMETERS : | The program will | run | enti | rely. | | | |
| 16 17 | #SET PARAMETERS : #You will need to personalize the variables below with your parameters | The program will | run | enti | rely. | | | |
| 16 | | The program will | run | enti | rely. | | | |
| 16 17 18 | <pre>#You will need to personalize the variables below with your parameters ##Input file (csv) name : #Indicate ("T+1_data_collection_France.csv") - here you need to replace "France</pre> | | run Files | enti Plots | | /iewer | | |
| 16 17 18 19 20 21 | #You will need to personalize the variables below with your parameters ##Input file (csv) name : | | Files | Plots | Packages Help | | Q. | - |
| 16 17 18 19 20 21 22 | <pre>#You will need to personalize the variables below with your parameters ##Input file (csv) name : #Indicate ("T+1_data_collection_France.csv") - here you need to replace "France input_file="T+1_data_collection_France.csv"</pre> | | Files | Plots | Packages Help V Update renv • | | | |
| 16 17 18 19 20 21 22 23 | <pre>#You will need to personalize the variables below with your parameters ##Input file (csv) name : #Indicate ("T+1_data_collection_France.csv") - here you need to replace "France input_file="T+1_data_collection_France.csv" ##Verification file (csv) name :</pre> | " by the name of your own | Files | Plots | Packages Help | | Q Lockf | |
| 16 17 18 19 20 21 22 23 24 | <pre>#You will need to personalize the variables below with your parameters ##Input file (csv) name : #Indicate ("T+1_data_collection_France.csv") - here you need to replace "France input_file="T+1_data_collection_France.csv" ##Everification file (csv) name : ##The csv file should be saved in the same folder as the one containing your data ##The csv file should be saved in the same folder as the one containing your data #You will need to personalize the variables below with your parameters ##The csv file should be saved in the same folder as the one containing your data ##The csv file should be saved in the same folder as the one containing your data ##The csv file should be saved in the same folder as the one containing your data ##The csv file should be saved in the same folder as the one containing your data ##The csv file should be saved in the same folder as the one containing your data ##The csv file should be saved in the same folder as the one containing your data ##The csv file should be saved in the same folder as the one containing your data ##The csv file should be saved in the same folder as the one containing your data ##The csv file should be saved in the same folder as the one containing your data ##The csv file should be saved in the same folder as the one containing your data ##The csv file should be saved in the same folder saved in the same folder saved your saved y</pre> | " by the name of your own | Files Ins | Plots | Packages Help V Update renv • | | | S |
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| 5. | | | | | | | | |
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| | Product_code | Father_product_code | Country | Year ‡ | Category name | Subcategory n | | = List • @ |
| 1 | - 1692 | NA | Ireland | 2021 | Fresh dairy products and desserts | Classic sweet y | After rupping the program | |
| 2 | 1705 | NA | Ireland | 2021 | Fresh dairy products and desserts | Classic sweet y | After running the program | |
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| 4 | 1707 | NA | Ireland | 2021 | Fresh dairy products and desserts | Gourmet plain | Several tables appear next to the R program | s (|
| 5 | 1708 | NA | Ireland | 2021 | Fresh dairy products and desserts | Classic sweet y | | |
| 6 | 1709 | NA | Ireland | 2021 | Fresh dairy products and desserts | Gourmet plain | script. These tables are working tools for the R | |
| 7 | 1727 | NA | Ireland | 2021 | Fresh dairy products and desserts | Gourmet sweet | program but you don't need to look at them (only | |
| 8 | 1732 | 550 | Ireland | 2021 | Fresh dairy products and desserts | Gourmet sweet | | 12" "40 |
| 9 | 1733 | 550 | Ireland | 2021 | Fresh dairy products and desserts | Gourmet sweet | if there are errors or warnings in the console but | |
| 10 | 1736 | NA | Ireland | 2021 | Fresh dairy products and desserts | Classic sweeter | in this case you have to tell us so we can help | |
| 11 | 1746 | NA | Ireland | 2021 | Fresh dairy products and desserts | | you). | _ |
| 12 | 1752 | NA | Ireland | 2021 | Fresh dairy products and desserts | | | |
| 13 | 1758 | NA | Ireland | 2021 | Fresh dairy products and desserts | Artificially-swee | | grams 🔍 🛞 |
| | na 1 to 12 of 412 or | tries 50 total columns | | | | | At the end of the 'Verifications template_step_1' | Modifie |
| IOWI | ng 1 to 15 of 412 en | tries, 50 total columns | | | | | program execution, you should see the sentence | 14-10 |
| | ole Terminal × | | | | | | | May 19, Aug 10, |
| | R 4.1.2 · C:/Users/ | t.laguitton/Desktop/T+1_sta | tistics_program | ns/Files/ 🗇 | -, | , | highlighted in yellow in the console. | May 4, 2 |
| } | | | | | | | | may 4, |
| | | e.csv2 uses a com in some Western E | | | nal point and a semico | lon for th | The program exports an excel file named | |
| ## | ##If the Exce | l convention is d | lifferent | in you | r country, please use | the functi | | |
| τ_ | ru_data_t1.2. | csv",na=" ",sep=" | , aec= | , , row. 1 | names=FALSE) | | T+1_data_collection_country_Step1_VERIFIED.csv | |
| | | e should appear i ould appear in th | | | | | to your "Files" folder in the | May 4, |
| | ine rire si | iouru appear in ch | ie rorder | r nes | | | "T+1 statistics programs" folder. | Oct 10, |



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| Épingler à Copier Coller | chemin d'accès | Accès | el élément • 🚺 Ouvrir • 📑 Sélectionner tout |
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| \leftarrow \rightarrow \checkmark \uparrow \square \rightarrow Ce PC \rightarrow Burea | u > T+1_statistics_programs > Files | | exported by R |
| Accès rapide | Nom | Modifié le | In the 'Files' folder, you will find the file |
| Bureau * | Best-ReMaP_nomenclature.csv | 12/07/2022 16 | exported by the first verification |
| Téléchargements | Dre_existing_data_France.csv | 03/10/2022 15 | program T+1 data collection country |
| 🗄 Documents 🖈 | T+1_data_collection_France.csv T+1_data_collection_France_Step1_CORRECTED.csv | 10/10/2022 15 | |
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| 33-T+1 Statistics training (oc | wp5_verification_file.csv | 30/08/2022 10 | \rightarrow You need to create a copy of this file |
| Files | B Years of interest.csv | 03/10/2022 17 | and rename it "T+1 data collection |
| Test Laure et Thomas | | | country_Step1_CORRECTED.csv" |
| Ce PC | | | ta ta ang alata fila alama sa sa sili ang baraha |
| Eureau | | | It is on this file that you will make the corrections and modifications indicated |
| Documents | | | |
| 📰 Images | | | |





Excel file to modify after 'Verifications template_step_1' program

| | | Laurant Farmulas Data | | tion_France_Step1_CORRECTED.csv - Excel |
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| | 'Bar_code' colui | | | |
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Excel file to modify after 'Verifications template_step_1' program

<u>Terms that may appear in the 'Problems' field following the 'R_verifications</u> <u>template_step_1' program, their meaning and what to do</u>

- In the following slides all the terms that can appear in the problem column and how to make corrections will be presented.
- Please note that the verification program 'Verifications template_step_1' is case sensitive (upper and lower case letters are important). Any information entered that does not match the <u>spelling</u> and <u>case</u> of the elements in the drop-down lists of the initial data entry template will appear as an error.
- If a line is completely empty (no fields filled) but errors for all fields appear after running the program, then this line should be deleted. *Empty rows are normally deleted by the program, but some may still be imported.*
- The program 'verifications template_step_1' and all other programs take into account if you have used the template containing only one 'FOP_labeling_type' field or if you have used the latest version of the template containing several 'FOP_labeling_type' fields





Excel file to modify after 'Verifications template_step_1' program

<u>Terms that may appear in the 'Problems' field following the 'R verifications</u> <u>template_step_1' program, their meaning and what to do</u>

| <u>Problem</u> | Meaning | <u>Action</u> | |
|------------------------|---|---|--|
| Duplicate_code | Different products have the same product code | → You must change the product code so that all products have a unique code | 'Product_code' is |
| Empty_product _code | The product does not have a unique product code | ightarrow You must create a unique product code that does not already exist for the product | a mandatory field |
| Country | Incorrect country name (i.e. not contained in the closed list of the input template) or missing country name | → You must check the spelling of the country by comparing it with the closed list of the input template or add the country name if it is missing | 'Country' is a mandatory field |
| Year | year different from that/those indicated in the 'set parameters' part of the program | → You must correct the collection year that does not match your collection year(s) or add it if it is missing | 'Year' is a mandatory field |
| Category_name | Incorrect category name (i.e. not contained in the closed list of the input template) or missing category name | → You must check the spelling of the category name by comparing it with the closed list of the input template or add the category name if it is missing | 'Category_name' is a mandatory field |
| Category_code | Category code that does not exists or missing category code | → You must check the category code exists by comparing it with the classification guides of the 5 food categories or add the category code if it is missing | 'Category_code' is a mandatory field |
| | | Co-runded by the European Union's | |





Excel file to modify after 'Verifications template_step_1' program

<u>Terms that may appear in the 'Problems' field following the 'R verifications</u> <u>template_step_1' program, their meaning and what to do</u>

| Problem | Meaning | <u>Action</u> | |
|----------------------------------|--|---|---|
| Subcategory_ name | Incorrect subcategory name (i.e. not contained in the closed list of the input template) or missing subcategory name | → You must check the spelling of the subcategory name by comparing it with the closed list of the input template or add the subcategory name if it is missing | 'Subcategory_ name' is a mandatory field |
| Subcategory_ code | Category code that does not exists or missing category code | → You must check the subcategory code exists by comparing it with the classification guides of the 5 food categories or add the subcategory code if it is missing | 'Subcategory_ code' is a mandatory field |
| Bar_code_ length_or_ empty | The barcode does not have 8, 12, 13, 14, or 15 digits or is missing | → You must go back to the product pictures and correct the barcode or add the barcode if you have forgotten it. If the barcode does not appear on the product pictures or is the same as in the picture, you must indicate in the 'Comments' field: " <i>barcode</i> <i>checked</i> ". | |
| Bar_code_chr | The barcode contains characters other than numbers that are unwanted | → You must go back to the product pictures and correct the barcode as there can be no characters other than numbers in a barcode | |



Excel file to modify after 'Verifications template_step_1' program

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 If the problem bar_code_length_or_empty or bar_code_chr appears in the 'Problems' column, you need to look at the product pictures to correct the barcode entered.

If you see that the barcode to be corrected **starts with a number** "**0**", you must indicate in the column *'bar_code_starts_0'* \rightarrow "**Yes**"

You don't need to enter the 0 at the beginning of the barcode in the 'Bar_code' field as this will be removed by Excel (the csv format doesn' take 0's at the beginning of a number into account) but this important information will be kept thanks to the 'bar_code_starts_0' column.

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Excel file to modify after 'Verifications template_step_1' program

| <u>Problem</u> | Meaning | <u>Action</u> | |
|--|---|--|--|
| Brand_name | Brand name is missing | → You must go back to the product pictures and add the brand name of the product if you have forgotten it. If the brand name does not appear on the product pictures or is unreadable, you must indicate in the 'Comments' field: "brand name checked and unreadable/not existing". | |
| Type_of_brand | Incorrect type of brand (i.e. not contained in the closed list of the input template) or missing type of brand | → You must check the spelling of the type of brand by comparing it with the closed list of the input template or add the type of brand if it is missing by looking at the product's brand name | 'Type_of_brand' is a mandatory field |
| Legal_name Legal_name _english | Legal name is missing Legal name in english is missing | → You must go back to the product pictures and add the legal name of the product if you have forgotten it. If the legal name does not appear on the product pictures or is unreadable, you must indicate in the 'Comments' field: <i>"legal name checked and unreadable/not existing</i>". → If the legal name in English is missing, you must translate the legal name and add it to the template | |





Excel file to modify after 'Verifications template_step_1' program

| <u>Problem</u> | <u>Meaning</u> | <u>Action</u> | |
|---|--|---|--|
| Commercial_name Commercial_name_e nglish | Commercial name is missing Commercial name in english is missing | → You must go back to the product pictures and add the commercial name of the product if you have forgotten it. If the commercial name does not appear on the product pictures or is unreadable, you must indicate in the 'Comments' field: "commercial name checked and unreadable/not existing". → If the commercial name in English is missing, you must translate the commercial name and add it to the template | |
| FOP_labeling_type_2 FOP_labeling_type_3 FOP_labeling_type_4 can appear if you use the latest version of the template | Incorrect FOP labeling type (i.e. not contained in the closed list of the input template) or missing FOP labeling type | → You must check the spelling of the FOP labeling type by comparing it with the closed list of the input template or add the FOP labeling type if it is missing by looking at the product's pictures. If there is no FOP labeling type of interest on the pictures of the product, you must enter 'None from the list'. → When this problem occurs, it can affect the 'FOP_labeling_type' field and also the 'FOP_labeling_type_2/_3 /_4' fields for those using the latest version of the template. In this case, it is necessary to check the spelling of the field concerned. | 'FOP_labeling _type' is a mandatory field |
| Nutri_score | Incorrect nutri- score (not a letter between A and E) | → You must go back to the product pictures and find the correct nutri-score of the product and enter it in the template | |



Excel file to modify after 'Verifications template_step_1' program

| <u>Problem</u> | Meaning | <u>Action</u> |
|-----------------|---|---|
| Ingredient_list | Ingredient list is missing | → You must go back to the product pictures and add the ingredient list of the product if you have forgotten it. If the ingredient list does not appear on the product pictures or is unreadable, you must indicate in the 'Comments' field: <i>"ingredient list checked and unreadable/not</i> <i>existing</i> ". |
| Net_weight | The net weight contains characters other than numbers that are unwanted | → You must go back to the product pictures and correct the net weight as there can be no characters other than numbers in the 'net_weight' field. |
| Net_weight_unit | The net weight unit is different from « g » or « mL » (i.e. not contained in the closed list of the input template) | → You must check the spelling of the net weight unit by paying attention to upper and lower case. It should be entered as "g" or "mL". |
| Number_of_units | The number of units contains characters other than numbers that are unwanted | → You must correct the number of units as there can be no characters other than numbers in the 'number_of_units' field |
| Portion_size | The portion size contains characters other than numbers that are unwanted | → You must go back to the product pictures and correct the portion size as there can be no characters other than numbers in the 'portion_size' field. |



Excel file to modify after 'Verifications template_step_1' program

| <u>Problem</u> | Meaning | Action |
|--|---|---|
| Portion_size_unit | The portion size unit is different from « g » or « mL » | → You must check the spelling of the net weight unit by paying attention to upper and lower case. It must be entered "g" or "mL" and not something else. |
| Nutrient_content_ expression_unit | The nutrient content expression unit is different from « 100g » or « 100mL » | → You must check the spelling of the nutrient content expression unit. It must be entered « 100g » or « 100mL » and not something else. |
| Energy_kCal Energy_kJ Fat Saturated_fat Carbohydrates Sugar Protein Salt Fibre | The fields contain characters other than numbers (except "<" and "traces") that are unwanted. | → You must correct so that only numbers remain and no other characters → If you have any doubt about the values when correcting, go back to the product photos |
| Nutrient_content_ expression_unit_as _consumed | The nutrient content expression unit for products to be reconstituted is different from « 100g » or « 100mL » | → You must check the spelling of the nutrient content expression unit as consumed. It must be entered « 100g » or « 100mL » and not something else |





Excel file to modify after 'Verifications template_step_1' program

| <u>Problem</u> | Meaning | <u>Action</u> |
|--|--|---|
| Energy_as_consumed_kCal Energy_as_consumed_kJ Fat_as_consumed Saturated_fat_as_consumed Carbohydrates_as_consumed Sugar_as_consumed Protein_as_consumed Salt_as_consumed Fibre_as_consumed | The fields contain characters other than numbers (except "<" and "traces") that are unwanted | → You must correct so that only numbers remain and no other characters → If you have any doubt about the values when correcting, go back to the product photos |





• Fields that are indicated as mandatory in the previous table and that show a problem when information is missing

 \rightarrow You must correct or enter information for these fields.

- For nutritional values containing the word "traces", it is also necessary to check by hand and standardize the spelling of "traces" (so you don't have "Traces", "trace", ...)
- For products where a problem appears but the information entered is correct or missing, you must indicate in the '*Comments*' field that the problem has been checked (see the '*Action*' column in the previous tables).

 \rightarrow This way, when you will run the verification program again, you will be able to identify problems that appear without being a problem (and have already been verified).





- Be careful! When saving the file, you must be sure that the barcodes appear in full and not in scientific format. If this is the case, you must repeat the procedure on pages 24→28.
- Once the corrections have been made and the barcodes are in the correct format, you can save the file *T*+1_data_collection_country_Step1_CORRECTED.csv and close it.
- You will have to run this corrected file again in the 'Verifications template_step_1' program to make sure you haven't missed a check.

Your Rstudio interface must be cleaned up before running the 'Verifications template_step_1' program again. All cleaning steps are described on <u>pages 62→68</u>.





2nd running of 'Verifications template_step_1' program

| 🗷 T+1_stati | istics_programs - RStudio | – o × |
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| • • • | 🕣 🔹 🔚 🛑 🍌 Go to file/function 🛛 🖩 👻 Addins 👻 | Setting parameters of the second running |
| Verifice | ations template_step_1.R* × | of Warifications tomplate stop 1' program |
| | | of 'Verifications template_step_1' program |
| | library("tidyverse") | |
| 14 | | |
| 15 16 | #SET PARAMETERS : | For this second running of the 'Verifications |
| 10 | #You will need to personalize the variables below with your parameters | TOT this second running of the vernications |
| 18 | | template step 1', the only fields you need to change |
| | <pre>##Input file (csv) name : #Tadianta ("Til data callection France cau") have you need to realize "France</pre> | |
| 20 21 | <pre>#Indicate ("T+1_data_collection_France.csv") - here you need to replace "France input_file="T+1_data_collection_France.csv"</pre> | are the names of the input file and the output file. |
| 22 | | |
| 23 | ##Verification file (csv) name : | |
| 24 25 | <pre>##The csv file should be saved in the same folder as the one containing your da verification_file="wp5_verification_file.csv"</pre> | Input_file = |
| 26 | | · _ |
| 27 | ##Nomenclature file (csv) name : | "T+1_data_collection_country_ Step1 _CORRECTED.csv" |
| 28 29 | <pre>##The csv file should be saved in the same folder as the one containing your da nomenclature_file="Best-ReMaP_nomenclature.csv"</pre> | |
| 30 | nomencrature_rrre- best-kemar_nomencrature.csv | |
| 31 | ##Output file (csv) name : | Output file = |
| 32 33 | output_file=" <mark>T+1_data_collection_France_Step1_VERIFIED.csv</mark> " | • = |
| 34 | ##Data collection year : | "T+1_data_collection_country_ Step1_VERIFIED2 .csv" |
| 35 | ##Enter the year at which you have collected your data for Best- <u>ReMaP</u> (replace | |
| 36 37 | <pre>year="2021" #0ptional - if the data collection overlaps two consecutive years (example 2021</pre> | |
| 38 | ##IF YOU HAVE ONLY ONE YEAR OF DATA COLLECTION, INDICATE THE SAME YEAR IN year_ | You must also indicate the year/years of your |
| 39 | year_2="2021" | |
| 40 | ##Indicate the separator used for saving your Excel file in csv ("," or ";") | collection, the separator and if you have a specific |
| 41 42 | <pre>separator=";"</pre> | alubabat as in the first run of the preserves |
| 43 | | alphabet as in the first run of the program. |
| 44 | ##If you have used a specific alphabet (greek, etc) in your template, please in | |
| 45 46 | special_alphabet= <mark>"NO"</mark> | 🗌 🤤 Indicators |
| 47 - | | Programs |
| 48 | <pre>#hore-actwd() # Cot the current working directory</pre> | i i i renv |
| | (Top Level) \$ | R Script \$ renv.lock 36.4 KB May 4, 2022, |
| Console | | T+1_statistics_programs.Rproj 218 B Oct 10, 2022 |
| console | | |



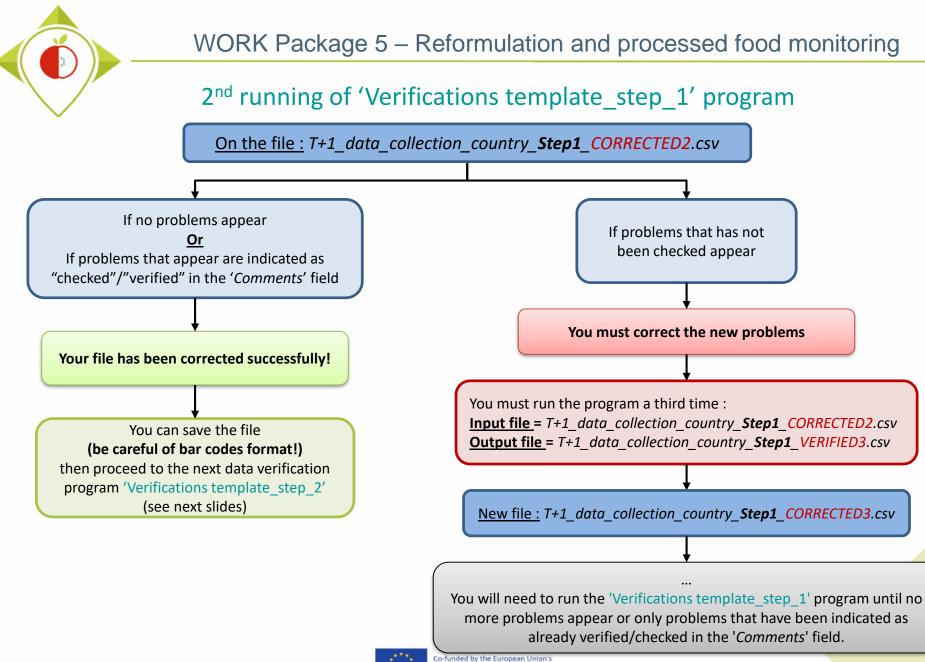


2nd running of 'Verifications template_step_1' program

- At the end of this second run, you get in the "Files" folder a file called: "T+1_data_collection_country_Step1_VERIFIED2.csv"
- You must create a copy of this file and call it : "T+1_data_collection_country_Step1_CORRECTED2.csv"

ightarrow It is on this file that you will make the modifications following the checks







3) Running of the programs

A. Part 1 : R setup program

B. Part 2 : Verification programs and template cleaning/standardization

i. 1st verification program : 'Verifications template_step_1'

ii. 2nd verification program : 'Verifications template_step_2'

iii. 3rd verification program : 'Verifications template_step_3'

iv. 4th verification program : 'Verifications template_step_4'





2nd verification program : 'Verifications template_step_2'

Presentation of the 'Verifications template step_2' program :

• In this second verification program, consistency problems will be highlighted: consistency of categories and their codes, sub-categories and their codes, values and their units, etc.

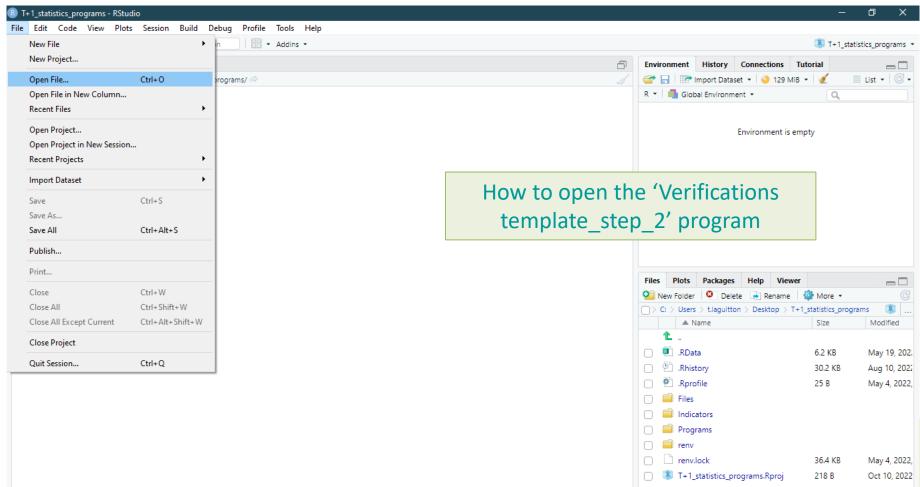
Requirements before starting the program 'Verifications template_step_2':

- The program 'Verifications template_step_1' should have been run on your data
- You should no longer have any problems appearing or only problems that have been notified as verified after running the program 'Verifications template_step_1'
- You must have your template in your possession and it must now be called: T+1_data_collection_country_Step1_CORRECTED(X).csv (with the name of your own country) ((X) is the number of the last file exported and corrected after the last run of the first verification program)
- You need to make sure that the barcodes in your file T+1_data_collection_country_Step1_CORRECTED(X).csv appear in full and not in scientific format (see procedure pages 24→28)

Your Rstudio interface must have been cleaned up before running the program. All cleaning steps are described on pages $62 \rightarrow 68$.











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| <pre>######## SECOND PROGRAMME OF VERIFICATION #Version of R used : 4.1.2 #Rstudio needs to be used for using the program in a simpler way : it is a tool for working on R programs ###IMPORTANT : R software must be installed on your computer in order to install, run and use Rstudio ##dplyr : 1.0.7 ##tidyverse : 1.3.1 #Load the necessary packages each time you open Rstudio for running the program with the functio ##tidyverse") #SET PARAMETERS : #You will need to personalize the variables below with your parameters ##Input file (csv) name : ##Input file (csv) name : #Indicate ("T0_data_collection_France_Step1_CORRECTED.csv") - here you need to replace "France" by the na ##Top Parameters ##Top Parameters #Indicate ("T0_data_collection_France_Step1_CORRECTED.csv") - here you need to replace "France" by the na ##Top Parameters ##Top Parameters #Indicate ("T0_data_collection_France_Step1_CORRECTED.csv") - here you need to replace "France" by the na ##Top Parameters ##</pre> | Import Dataset • • 153 Mill • R • • • Global Environment • Environment is empty Perifications template_step_program opened |
| <pre>#Version of R used : 4.1.2 #Rstudio needs to be used for using the program in a simpler way : it is a tool for working on R programs ###IMPORTANT : R software must be installed on your computer in order to install, run and use Rstudio ##dplyr : 1.0.7 ##tidyverse : 1.3.1 #Load the necessary packages each time you open Rstudio for running the program with the functio #Load the necessary packages each time you open Rstudio for running the program with the functio #SET PARAMETERS : #You will need to personalize the variables below with your parameters ##Input file (csv) name : ##Input file (csv) name : #Indicate ("T0_data_collection_France_Step1_CORRECTED.csv") - here you need to replace "France" by the na ###INDIC CORRECTED.csv") - here you need to replace "France" by the na ###INDIC CORRECTED.csv") - here you need to replace "France" by the na ###INDIC CORRECTED.csv") - here you need to replace "France" by the na ###INDIC CORRECTED.csv") - here you need to replace "France" by the na ###INDIC CORRECTED.csv") - here you need to replace "France" by the na ###INDIC CORRECTED.csv") - here you need to replace "France" by the na ###INDIC CORRECTED.csv") - here you need to replace "France" by the na ###INDIC CORRECTED.csv") - here you need to replace "France" by the na ###INDIC CORRECTED.csv") - here you need to replace "France" by the na ####INDIC CORRECTED.csv") - here you need to replace "France" by the na ####INDIC CORRECTED.csv") - here you need to replace "France" by the na ####INDIC CORRECTED.csv") - here you need to replace "France" by the na ####INDIC CORRECTED.csv") - here you need to replace "France" by the na ####INDIC CORRECTED.csv") - here you need to replace "France" by the na ####################################</pre> | Environment is empty erifications template_step_ program opened |
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| <pre>#Rstudio needs to be used for using the program in a simpler way : it is a tool for working on R programs ###IMPORTANT : R software must be installed on your computer in order to install, run and use Rstudio ##dplyr : 1.0.7 ##tidyverse : 1.3.1 #Load the necessary packages each time you open Rstudio for running the program with the functio library("dplyr") library("tidyverse") #SET PARAMETERS : #You will need to personalize the variables below with your parameters ##Input file (csv) name : ##Input file (csv) name : #Indicate ("T0_data_collection_France_Step1_CORRECTED.csv") - here you need to replace "France" by the na ###Comparison of the parameter is a tool for working on R program is a simpler way : it is a tool for working on R programs ###Import file (csv) name : ##Input file (c</pre> | erifications template_step program opened |
| <pre>6 ###IMPORTANT : R software must be installed on your computer in order to install, run and use Rstudio 7 8 9 ##dplyr : 1.0.7 10 ##tidyverse : 1.3.1 11 11 12 #Load the necessary packages each time you open Rstudio for running the program with the functio 13 library("dplyr") 14 library("tidyverse") 15 16 17 #SET PARAMETERS : 18 #You will need to personalize the variables below with your parameters 19 20 21 ##Input file (csv) name : 22 #Indicate ("T0_data_collection_France_Step1_CORRECTED.csv") - here you need to replace "France" by the na</pre> | erifications template_step program opened |
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| <pre>9 ##dplyr : 1.0.7 10 ##tidyverse : 1.3.1 11 12 #Load the necessary packages each time you open Rstudio for running the program with the function 13 library("dplyr") 14 library("tidyverse") 15 16 17 #SET PARAMETERS : 18 #You will need to personalize the variables below with your parameters 19 20 21 ##Input file (csv) name : 22 #Indicate ("T0_data_collection_France_Step1_CORRECTED.csv") - here you need to replace "France" by the na</pre> | program opened |
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| <pre>10 ##tidyverse : 1.3.1 11 12 #Load the necessary packages each time you open Rstudio for running the program with the functio 13 library("dplyr") 14 library("tidyverse") 15 16 17 #SET PARAMETERS : 18 #You will need to personalize the variables below with your parameters 19 20 11 ##Input file (csv) name : 22 #Indicate ("T0_data_collection_France_Step1_CORRECTED.csv") - here you need to replace "France" by the na </pre> | program opened |
| <pre>11 12 #Load the necessary packages each time you open Rstudio for running the program with the functio 13 library("dplyr") 14 library("tidyverse") 15 16 17 #SET PARAMETERS : 18 #You will need to personalize the variables below with your parameters 19 20 21 ##Input file (csv) name : 22 #Indicate ("T0_data_collection_France_Step1_CORRECTED.csv") - here you need to replace "France" by the na </pre> | program opened |
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| 23 input tile="T+1 data collection plt Step1 VERTETED csv" | C: > Users > t.laquitton > Desktop > T+1 statistics programs |
| | |
| <pre>24 #The template you will import is the one you have created via <u>Verifications</u> template_step_1; it should a 25</pre> | ▲ Name Size Modifie |
| 26 ##verification file (csv) name : | L. |
| 27 ##The csv file should be saved in the same folder as the one containing your data set in csv - here you n | RData 6.2 KB May 19, |
| <pre>28 verification_file="wp5_verification_file.csv"</pre> | |
| 29 | |
| 30 ##Nomenclature file (csv) name : | 🗌 🐮 .Rprofile 25 B May 4, 2 |
| 31 ##The csv file should be saved in the same folder as the one containing your data set in csv 32 nomenclature_file="Best-ReMap_nomenclature.csv" | 🕥 🧰 Files |
| 32 nomenclature_tile= Best-Remap_nomenclature.csv | □ □ Indicators |
| 34 #Enter the name of your country exactly as entered in the file (respect the capital letter) | |
| 35 #Replace Ireland with your own country (keep the quoting marks) | 📄 🧰 Programs |
| 36 own country-"Troland" | |
| 37 | renv renv |





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| <pre>16 17 #SET PARAMETERS : 18 #You will need to provide the variables below with your paramer 19 20 21 ##Input file (csv) name : 22 #Indicate ("T0_data_collection_France_Step1_CORRECTED.csv") - here 23 input_file="T+1_data_collection_France_Step1_CORRECTED(X).csv"</pre> | 23) and the output file (line 39) of the R script + line 36 ('own_country |
| 24 #The template you will import is the one you have created via Veri 25 26 ##Verification file (csv) name : 27 ##The csv file should be saved in the same folder as the one conta 28 verification_file="wp5_verification_file.csv" | as in the program 'Verifications template step 1'. |
| 29 30 ##Nomenclature file (csv) name : 31 ##The csv file should be saved in the same folder as the one conta nomenclature_file="Best-ReMap_homenclature.csv" 33 | Input_file = |
| 34 #Enter the name of your country exactly as entered in the file (res 35 #Replace Ireland with your own country (keep the quoting marks) 36 own_country="France" 37 | "T+1_data_collection_Ireland_Step1_CORRECTED(X).csv" ((X) is the number of the last file exported and corrected after the last run of the first verification program) |
| 38 #Define the output file name 39 output_file="T+1_data_collection_France_Step2_VERIFIED.csv" | |
| <pre>40 41 ##Indicate the separator used for saving your Excel file in csv (" 42 separator=";" 43</pre> | Own_country = "Ireland" (same spelling as in the country name in the template) |
| <pre>44 ##If you have used a specific alphabet (greek, etc) in your templa 45 special_alphabet="No" 46 47 * ###################################</pre> | Output_file = "T+1_data_collection_lreland_Step2_VERIFIED.csv" |
| 32:31 (Top Level) \$ | Separator = ";" |
| Console Terminal × Jobs × | - Schalator - , |
| R 4.1.2 · C:/Users/t.laguitton/Desktop/T+1_statistics_programs/ A | |
| > | Special_alphabet = "NO" |





| - OR | 🐨 🖣 📄 🧼 Go to file/function | | | | | T+1 statis | stics program |
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| | ations template_step_2.R × | | Envir | ronment History Cor | nnections Tuto | | _ |
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| 1 | ####### SECOND PROGRAMME OF VERIFICATION | <u>▲</u> | R * | 🜗 Global Environment 🔹 | - | Q, | |
| 2 | #Version of R used : 4.1.2 | | | | | | |
| 4 | | | | | | | |
| 5 | #Rstudio needs to be used for using the program in a simpler way : it is a tool f | | | | | | |
| 6 | ###IMPORTANT : R software must be installed on your computer in order to install, | lect the e | ent | tire progra | am (Ct | [ri+A] | |
| 7 8 | | | | | • | | |
| 9 | ##dplyr : 1.0.7 | ind nress | s 'R | Run' (or Cl | trl+Fnt | ter) | |
| 10 | ##tidyverse : 1.3.1 | | | | | | |
| 11 | | | | | | | |
| 12 | #Load the necessary packages each time you open Rstudio for running the program w library("dplyr") | | | | | | |
| 13 14 | The pro | ogram will | rur | n entirely. | | | |
| 15 | | -0 | | | | | |
| 16 | | | | | | | |
| | | | | | | | |
| 17 | #SET PARAMETERS : | | | | | | |
| 17 18 | #SET PARAMETERS : #You will need to personalize the variables below with your parameters | | | | | | |
| 17 | | | Files | ; Plots Packages H | lelp Viewer | | _ |
| 17 18 19 20 21 | #You will need to personalize the variables below with your parameters ##Input file (csv) name : | | | - | - | More 👻 | _ |
| 17 18 19 20 21 22 | <pre>#You will need to personalize the variables below with your parameters ##Input file (csv) name : #Indicate ("TO_data_collection_France_Step1_CORRECTED.csv") - here you need to replace "France"</pre> | ce" by the na | 2] N | New Folder 😳 Delete | 🕂 Rename 🛛 🏟 | More • | |
| 17 18 19 20 21 22 23 | <pre>#You will need to personalize the variables below with your parameters ##Input file (csv) name : #Indicate ("T0_data_collection_France_Step1_CORRECTED.csv") - here you need to replace "France input_file="T+1_data_collection_France_Step1_CORRECTED(x).csv"</pre> | | 2] N | New Folder Olete C: > Users > t.laguitton > | 🕂 Rename 🛛 🏟 | tatistics_progra | ams 📑 |
| 17 18 19 20 21 22 23 24 | <pre>#You will need to personalize the variables below with your parameters ##Input file (csv) name : #Indicate ("TO_data_collection_France_Step1_CORRECTED.csv") - here you need to replace "France"</pre> | | 2] N | New Folder 😳 Delete | 🕂 Rename 🛛 🏟 | - | ams 🕼 |
| 17 18 19 20 21 22 23 | <pre>#You will need to personalize the variables below with your parameters ##Input file (csv) name : #Indicate ("T0_data_collection_France_Step1_CORRECTED.csv") - here you need to replace "France input_file="T+1_data_collection_France_Step1_CORRECTED(X).csv" #The template you will import is the one you have created via <u>Verifications</u> template_step_1 ; ##Verification file (csv) name :</pre> | it should a | 2] N | New Folder Olete C: > Users > t.laguitton > | 🕂 Rename 🛛 🏟 | tatistics_progra | ams 🕼 |
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T+1 statistics programs - RStudi

Running of 'Verifications template_step_2' program

| n × [[<>⇒ | Nomenclature × | bar_code_count × Cols: « < 1-50 > » | comb_brane | d_count × | brand_occ × Soft | t_drinks × Categories | After running the program |
|-----------------|----------------|--|------------|-------------------|-------------------|-------------------------|--|
| * | Product_code | Father_product_code | Country | Year [‡] | Category_name | Subcategory_name | |
| 1 | 1650 | NA | Ireland | 2021 | Breakfast cereals | Cereals without addee | Several tables appear next to the R program |
| 2 | 1651 | NA | Ireland | 2021 | Breakfast cereals | Traditional muesli flak | |
| 3 | 1653 | NA | Ireland | 2021 | Breakfast cereals | Cereals without added | script. These tables are working tools for the R |
| 4 | 1654 | NA | Ireland | 2021 | Breakfast cereals | Cereals without added | program but you don't need to look at them (onl |
| 5 | 1655 | NA | Ireland | 2021 | Breakfast cereals | Cereals without added | |
| 6 | 1657 | NA | Ireland | 2021 | Breakfast cereals | Traditional muesli flak | if there are errors or warnings in the console but |
| 7 | 1658 | 603 | Ireland | 2021 | Breakfast cereals | High-fibre cereals | in this case you have to tell us so we can help |
| 8 | 1659 | NA | Ireland | 2021 | Breakfast cereals | Chocolate-flavoured of | you). |
| 9 | 1661 | 937 | Ireland | 2021 | Breakfast cereals | Chocolate-flavoured of | you). |
| 10 | 1663 | 586 | Ireland | 2021 | Breakfast cereals | Sweet cereal flakes | |
| 11 | 1665 | 916 | Ireland | 2021 | Breakfast cereals | Crunchy fruit muesli | At the end of the 'Verifications template step 2' |
| 12 | 1672 | NA | Ireland | 2021 | Breakfast cereals | Crunchy muesli with r | |
| 13 | 1674 | 597 | Ireland | 2021 | Breakfast cereals | Sweet cereal flakes | program execution, you should see the sentence |
| 14 | 1675 | NA | Ireland | 2021 | Breakfast cereals | Crunchy fruit muesli | highlighted in yellow in the console. |
| 15 | 1676 | N/A | Ineland | 2021 | Rrashfact carasic | Crunchy fruit muesli | |

Console Terminal × Jobs ×

```
R 4,1,2 · C:/Users/t.laguitton/Desktop/T+1_statistics_programs/Files/ A
```

```
+ }else if(separator==","){
```

```
utils::write.csv(Step2_T0_data_f,file=output_file,na=" ",row.names=FALSE)
+ }
```

```
> print("The file should appear in the folder 'Files'")
[1]
    "The file should appear in the folder 'Files'
```

T+1 data collection country Step2 VERIFIED.csv to your "Files" folder in the

renv.lock

T+1_statistics_programs.Rproj

"T+1_statistics_programs" folder.



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| > -> -> -> -> -> -> -> -> -> -> -> -> | u > T+1_statistics_programs > Files | | | avported by D |
| ^ | Nom | Modifié le | Туре | exported by R |
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| 🔜 Bureau 🛛 🖈 | Best-ReMaP_nomenclature.csv Description: Descri | 12/07/2022 16:48 03/10/2022 15:52 | Fichier CSV Micro Fichier CSV Micro | In the 'Files' folder, you will find the file |
| 🕂 Téléchargements 🛛 🖈 | pre_existing_data_rance.csv T+1_data_collection_France.csv | 10/10/2022 17:10 | Fichier CSV Micro | |
| 🗄 Documents 💉 | T+1_data_collection_France_Step1_CORRECTED(X).csv | 10/10/2022 17:04 | Fichier CSV Micro | exported by the 2 nd verification program |
| 📰 Images 🛛 🖈 | T+1_data_collection_France_Step1_VERIFIED.csv | 10/10/2022 17:13 | Fichier CSV Micro | T+1 data collection <i>country</i> |
| 📙 4th preliminary step | T+1_data_collection_France_Step2_CORRECTED.csv | 12/10/2022 16:46 | Fichier CSV Micro | / _ |
| 📙 Captures d'écran guide | T+1_data_collection_France_Step2_VERIFIED.csv | 12/10/2022 16:46 | Fichier CSV Micro | Step2_VERIFIED.csv |
| verifications template_step_1 | wp5_verification_file.csv | 30/08/2022 10:29 | Fichier CSV Micro | |
| verifications tmeplate_step_2 | Example 2 Sears of interest.csv | 03/10/2022 17:27 | Fichier CSV Micro | Nou read to graate a conv of this file |
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| Documents | | | | country Step2 CORRECTED.csv" |
| | | | | country_step2_connected.csv |
| b Musique | | | | |
| Dijets 3D | | | | It is on this file that you will make the |
| Téléchargements | | | | • |
| | | | | corrections and modifications indicated |
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| 8 | 1658 | 603 Ireland | 2021 Breakfast Hig | h-fibre 4,09E+12 No | Harvest M Aldi | country_Step2_CO | RRECTED.c | SV a | 750 g | |
| 9 | 1659 | Ireland | 2021 Breakfast Cho | ocolate 4,09E+12 No | Harvest M Aldi | | | а | 375 g | |
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| 11 | 1663 | 586 Ireland | 2021 Breakfast Swe | eet cer 4,09E+12 No | Harvest M Aldi | the which is a new | · · · · · · · · · · · · · · · · · · · | • 4 | 500 g | |
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| 15 | 1675 | Ireland | 2021 Breakfast Cru | nchy fr 4,09E+12 No | Harvest M Aldi | | ave to mar | S Is | 500 g | |
| 16 | 1676 | Ireland | 2021 Breakfast Cru | nchy fr 4,09E+12 No | Harvest M Aldi | madifications/a | orroctions | 25 | 500 g | |
| 17 | 1677 | 937 Ireland | 2021 Breakfast Cho | ocolate 4,09E+12 No | Harvest M Aldi | modifications/co | orrections | 6) | 375 g | |
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| 101 575 g | 1 45 g | Ambiant 100g 1027 Ambiant 100g 1897 | ³⁸ 'Verifications template step 2' | | | | | | |
| 103 500 | 1 30 g | Ambiant 100g 1662 | 39 | | | | | | |
| 104 500 g | 1 45 g | Ambiant 100g 2086 | 49 program | | | | | | |
| 105 625 g | 1 30 g | Ambiant 100g 1533 | 36 | | | | | | |
| 106 750 g | 1 45 g | Ambiant 100g 1559 | 36 | | | | | | |
| 107 750 g | 1 45 g | Ambiant 100g 1529 | ³⁶ Line 103 \rightarrow the net_weight_unit is missing | | | | | | |
| 108 720 g | 1 40 g | Ambiant 100g 1530 | 36 | | | | | | |
| 109 500 g | 1 45 g | Ambiant 100g 1612 | ³⁸ while there is a value for the net weight | | | | | | |
| 110 500 g | 1 45 g | Ambiant 100g 1876 | 44 | | | | | | |
| 111 500 g | 1 50 g | Ambiant 100g 1570 | 37 | | | | | | |
| 112 57 g | 1 57 g | Ambiant 100g 1555 | ³⁶ The R program identifies this missing | | | | | | |
| 113 50 g | 1 50 g | Ambiant 100g 1494 | 35 | | | | | | |
| 114 1500 g | 1 40 g | Ambiant 100g 1560 | ³⁷ information as a consistency problem | | | | | | |
| 115 500 g | 1 30 g | Ambiant 100g 1560 | 37 | | | | | | |
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| ← → T+1_data_ | collection_France_Step 🕘 | | : • | | | | | | |
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Excel file to modify after 'Verifications template_step_2' program

| Problem | Meaning | <u>Action</u> |
|--------------------------|--|--|
| nomenclature | Wrong association between 'Category_name', 'Category_code' , 'Subcategory_name' and 'Subcategory_code' | → Check the 4 fields and correct those (or the one) that are not correctly associated |
| Net_weight_ &_units | The net weight is filled but there is no associated net weight unit Or The net weight unit is filled but there is no associated net weight | → If there is a value in the 'net_weight' field, you must add the unit « g » or « mL » in the 'net_weight_unit' field → If there is a unit in the field 'net_weight_unit', you must go back to the pictures of the product and add the value of the portion size. If there is no net weight for this product, it must be an input error and you can delete the unit. → When you have any doubts, you must go back to the pictures of the product to be sure of what to enter |
| Portion_size_ &_units | The portion size is filled but there is no associated portion size unit Or The portion size unit is filled but there is no associated portion size | → If there is a value in the 'portion_size' field, you must add the unit « g » or « mL » in the 'portion_size_unit' field → If there is a unit in the field 'portion_size_unit', you must go back to the pictures of the product and add the value of the portion size. If there is no portion size for this product, it must be an input error and you can delete the unit. → When you have any doubts, you must go back to the pictures of the product to be sure of what to enter |





| <u>Problem</u> | Meaning | <u>Action</u> |
|--|--|--|
| Nutritional_values _&_units | The nutrient content expression unit is filled but there are no associated nutritional values for the nutrients Or There are nutritional values for the nutrients but there is no associated nutrient content expression unit | → If there are nutritional values for the nutrients, you must add the unit « 100g » or « 100mL » in the 'nutrient_content_expression_unit' field → If there is a unit in the field 'nutrient_content_expression_unit', you must go back to the pictures of the product and add the nutritional values of each nutrient. If there is nutritional values for this product, it must be an input error and you can delete the unit. → When you have any doubts, you must go back to the pictures of the product to be sure of what to enter |
| Nutritional_values _as_consumed_&_ units | The nutrient content expression unit for products to be reconstituted is filled but there is no associated nutritional values for the nutrients as consumed Or There are nutritional values for the nutrients as consumed but there is no associated nutrient content expression unit for products to be reconstituted | → If there are nutritional values as consumed for the nutrients, you must add the unit « 100g » or « 100mL » in the 'nutrient_content_expression_unit_as_consumed' field → If there is a unit in the field 'nutrient_content_expression_unit_as_consumed', you must go back to the pictures of the product and add the nutritional values as consumed of each nutrient. If there is no nutritional values as consumed for this product, it must be an input error and you can delete the unit. → When you have any doubts, you must go back to the pictures of the product to be sure of what to enter |





Excel file to modify after 'Verifications template_step_2' program

| <u>Problem</u> | <u>Meaning</u> | <u>Action</u> |
|------------------------|--|---|
| Wrong_country | This is not the name of your country | ightarrow You must enter the name of your own country, making sure that this is the same spelling as the closed list of the input template |
| Duplicate_bar_ code | Same bar code has been found for 2 or more products | → If the products have the same bar code and are similar (= duplicates = same bar code + same information for all the fields), you must delete one of the products to keep only one. → If the products have the same bar code but are different, you must check if it is an input error by going back to the pictures of the products. If it is an input error, you must enter the correct bar code. If the products really have the same bar code, you must keep them in the template and indicate in the 'Comments' field : « bar code checked and same for several different products » |
| Type_of_brand | The same brand has been associated with several types of brand. (This problem appears for all products of a same brand if they have been associated with different types of brand) | → You must filter in the Excel file on a brand name that shows the problem « <i>Type_of_brand</i> », then you must select the correct type of brand and apply it to all the products of the same brand name. |



Excel file to modify after 'Verifications template_step_2' program

| <u>Problem</u> | Meaning | <u>Action</u> |
|--|---|---|
| Carbohydrates_or_sugar _content | The sugar content is greater than the carbohydrates content | → You must go back to the pictures of the product and look at the sugar and carbohydrates content to correct this error. → If the error is on the product label, do not change anything and leave what is written on the product |
| Carbohydrates_or_sugar _as_consumed_ content | The sugar as consumed content is greater than the carbohydrates as consumed content for products to be reconstituted | → You must go back to the pictures of the product and look at the sugar and carbohydrates content as consumed to correct this error. → If the error is on the product label, do not change anything and leave what is written on the product |
| Fat_or_saturated_fat _content | The saturated fat content is greater than the fat content | → You must go back to the pictures of the product and look at the fat and saturated fat content to correct this error. → If the error is on the product label, do not change anything and leave what is written on the product |
| Fat_or_saturated_fat _as_consumed_content | The saturated fat as consumed content is greater than the fat as consumed content for products to be reconstituted | → You must go back to the pictures of the product and look at the fat and saturated fat content as consumed to correct this error. → If the error is on the product label, do not change anything and leave what is written on the product |





Excel file to modify after 'Verifications template_step_2' program

| Problem | Meaning | Action |
|-----------------------|---|---|
| Verify_units_g_100g | a unit in "g" appears for a product belonging to the 'Soft drinks ' category | → You must look at all the fields of the product that have units and find the unit "g". (Net_weight_unit, Portion_size_unit, Nutrient_content_expression_unit, Nutrient_content_expression_unit_as_consumed) → You must compare with the pictures of the product to check if this is an input error and correct it if necessary. → It is not necessarily an input error as some milk beverages can have units in g. |
| Verify_units_mL_100mL | a unit in "mL" appears for a product belonging to a category other than the 'Soft drinks' category | → You must look at all the fields of the product that have units and find the unit "mL". (Net_weight_unit, Portion_size_unit, Nutrient_content_expression_unit, Nutrient_content_expression_unit_as_consumed) → You must compare with the pictures of the product to check if this is an input error and correct it if necessary. → It is not necessarily an input error as some yoghourts can have units in mL. |





Excel file to modify after 'Verifications template_step_2' program

| <u>Problem</u> | <u>Meaning</u> | <u>Action</u> |
|--------------------|---|--|
| Enter_Nutri_score | The 'FOP labeling type' field indicates <i>Nutriscore</i> but there is no associated nutri- score in the 'Nutriscore' field | → You must go back to the pictures of the product and enter the letter of the nutri-score that appears on the package. → If there is no nutri-score on the picture, you must correct the entry in the field 'FOP_labeling_type' by choosing another FOP labeling type or <i>none of the list</i> (mandatory field) |
| Remove_Nutri_score | A nutri score is filled in the 'Nutriscore' field but the 'FOP labeling type' does not indicate <i>Nutriscore</i> | → You must go back to the pictures of the product and check if there is a nutri-score on the package If there is a nutri-score on the package, you must indicate Nutriscore in the 'FOP_labeling_type' field and check that the letter of the nutri-score entered is the right one If there is no nutri-score on the picture, you must delete the letter in the 'Nutriscore' field and and choose a FOP labeling type or none of the list in the field 'FOP_labeling_type' (mandatory field) |





Excel file to modify after 'Verifications template_step_2' program

<u>Terms that may appear in the 'Problems' field following the 'Verifications</u> <u>template_step_2' program, their meaning and what to do</u>

This problem can only occur if you are working on the latest version of the template which includes several fields for FOP labeling types (FOP_labeling_type2, FOP_labeling_type3, FOP_labeling_type4)

| <u>Problem</u> | <u>Meaning</u> | <u>Action</u> |
|----------------|--|---|
| Incorrect_FOPs | The first field 'FOP_labeling_type' indicates None from the list but not the other fields 'FOP_labeling_type2/3/4'. When the first field 'FOP_labeling_type' indicates None from the list, the other fields 'FOP_labeling_type2/3/4' must also indicate None from the list. | → If one or more of the fields 'FOP_labeling_2/3/4' is empty, then you must enter <i>None from the list</i> in those fields. → If another FOP label (nutriscore, reference intake,) is indicated in the field 'FOP_labeling_type2/3 or 4', you have to check on the product pictures that this is not an error and if there is indeed an FOP label on the product, it must be indicated in the first field 'FOP_labeling_type' and the other 2/3/4 must indicate 'none from the list'. |





- Be careful! When saving the file, you must be sure that the barcodes appear in full and not in scientific format. If this is the case, you must repeat the procedure on pages 24→28.
- Once the corrections have been made and the barcodes are in the correct format, you can save the file *T+1_data_collection_country_Step2_CORRECTED.csv* and close it.
- You will have to run this corrected file again in the 'Verifications template_step_2' program to make sure you haven't missed a check.

Your Rstudio interface must be cleaned up before running the 'Verifications template_step_2' program again. All cleaning steps are described on <u>pages 62→68</u>.





2nd running of 'Verifications template_step_2' program

| T+1_statistics_programs - RStudio | - 0 X |
|---|---|
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| Verifications template_step_2.R* × | |
| <pre>Source on Save Q X • E Source on Save Q X • E I3 library("dplyr") I4 library("tidyverse") I5 I6 ffct_popertype_</pre> | Setting parameters of the second running of 'Verifications template_step_2' program |
| <pre>17 #SET PARAMETERS : 18</pre> | For this second running of the 'Verifications template_step 2', the only fields you need to change are the names of the input file and the output file. |
| <pre>25 26 ##Verification file (csv) name : 27 ##The csv file should be saved in the same folder as the one containing your o 28 verification_file="wp5_verification_file.csv" 29 30 ##Nomenclature file (csv) name : 31 ##The csv file should be saved in the same folder as the one containing your o 32 nomenclature_file="Best-ReMaP_nomenclature.csv" 33 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</pre> | <pre>Input_file = "T+1_data_collection_country_Step2_CORRECTED.csv"</pre> |
| <pre>33 34 #Enter the name of your country exactly as entered in the file (respect the ca 35 #Replace Ireland with your own country (keep the quoting marks) 36 own_country="Ireland" 37 38 #Define the output file name 39 output_file="T+1_data_collection_France_Step2_VERIFIED2, csv" 40</pre> | Output_file = "T+1_data_collection_country_ Step2_VERIFIED2 .csv" |
| <pre>40 41 ##Indicate the separator used for saving your Excel file in csv ("," or ";") 42 separator=";" 43 44 ##If you have used a specific alphabet (greek, etc) in your template, please i 45 special_alphabet="NO" 46</pre> | Make sure the country name on <u>line 36</u> is yours and if not, enter it. |
| 47 • ################################### | You must also indicate the separator and if you have a specific alphabet as in the first run of the program. |



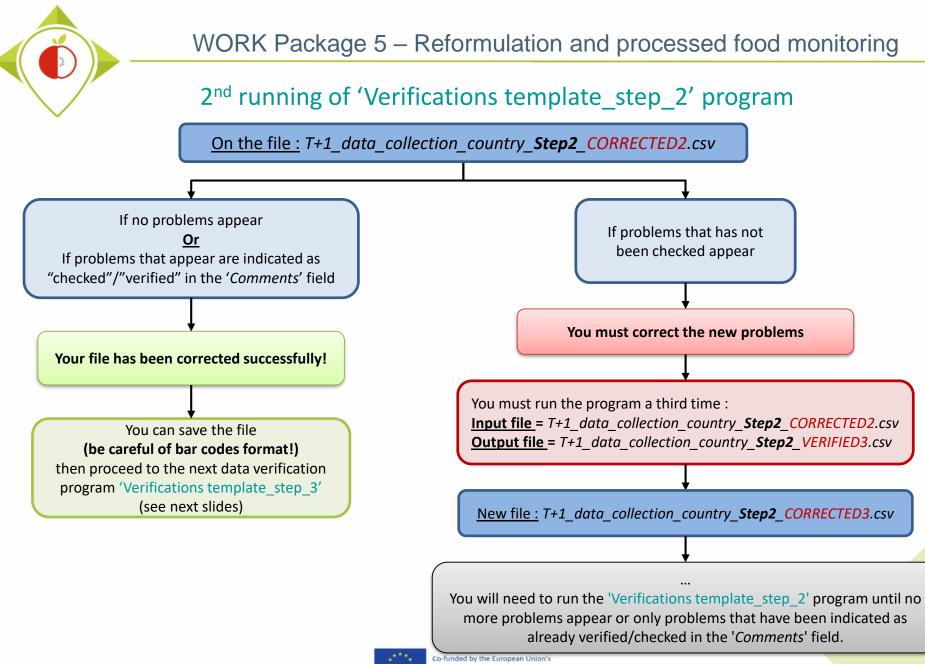


2nd running of 'Verifications template_step_2' program

- At the end of this second run, you get in your "files" folder a file called: "T+1_data_collection_country_Step2_VERIFIED2.csv"
- You must create a copy of this file and call it : "T+1_data_collection_country_Step2_CORRECTED2.csv"

ightarrow It is on this file that you will make the modifications following the checks







3) Running of the programs

A. Part 1 : R setup program

B. Part 2 : Verification programs and template cleaning/standardization

i. 1st verification program : 'Verifications template_step_1'

ii. 2nd verification program : 'Verifications template_step_2'

iii. 3rd verification program : 'Verifications template_step_3'

iv. 4th verification program : 'Verifications template_step_4'





3rd verification program : 'Verifications template_step_3'

Presentation of the 'Verifications template step_3' program :

- Third verification program : verification of outliers in your nutritional values
- For each nutrient in each subcategory, the following position indicators will be calculated :
 - □ 1st quartile (Q1)
 - 3rd quartile (Q3)
 - □ Interquartile range (IQR=Q3-Q1)

→ Nutrient values will be considered outliers if they are below Q1-(IQR*1.5) and above Q3+(IQR*1.5).





3rd verification program : 'Verifications template_step_3'

<u>Requirements before starting the program 'Verifications template_step_3' :</u>

- The programs 'Verifications template_step_1' and 'Verifications template_step_2' should have been run on your data
- You should no longer have any problems appearing or only problems that have been notified as verified after running the program 'Verifications template_step_2'
- You must have your template in your possession and it must now be called: T+1_data_collection_country_Step2_CORRECTED(X).csv (with the name of your own country) ((X) is the number of the last file exported and corrected after the last run of the first verification program)
- You need to make sure that the barcodes in your file T+1_data_collection_country_Step2_CORRECTED(X).csv appear in full and not in scientific format (see procedure pages 24→28)

Your Rstudio interface must have been cleaned up before running the program. All cleaning steps are described on pages $62 \rightarrow 68$.





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| Nom du fichier: Verifications template_step_3.R Alll Files (*) Open Annuler Image: State of the stat | Windows (C:) Siege (I:) transferts (K:) DER (L:) Sastmp sur salf0 | | | | | te | Files Plots Packages Help Viewer Image: Second Sec | More • 1_statistics_program | ams 😰 |
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| B T+1_statistics_programs - RStudio | | | – 0 X |
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| Verifications template_step_3.R × | | Environment History Connections T | Tutorial 🔤 🗖 |
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| 1 ####### THIRD PROGRAMME OF VERIFICATION (DISTRIBUTION) | | R 🝷 🛑 Global Environment 👻 | Q |
| 2 3 #Version of R used : 4.1.2 | | | |
| 4 #Rstudio needs to be used for using the program in a simpler way : it is a tool for working o | | | |
| 5 ###IMPORTANT : R software must be installed on your computer in order to install, run and use | Rstudio | Environment is en | npty |
| 6 7 #Load the necessary packages each time you open Rstudio for running the program with the func | tions below | | |
| 8 library("dplyr") | CTOILS BETON | | |
| 9 library("tidyverse") | (Vor | ifications templat | o ston 3' |
| 10 11 | ver | incations templat | .c_stcp_s |
| 12 #SET PARAMETERS : | | program opon | od |
| 13 #You will need to personalize the variables below with your parameters | | program open | eu |
| 14 15 ##Input file (csv) name : | | | |
| 16 #Indicate ("TO_data_collection_France_Step2_CORRECTED.csv") - here you need to replace "Franc | e" by the na | | |
| 17 input_file="T+1_data_collection_France_Step2_CORRECTED(X).csv" | the should be | | |
| 18 #The template you will import is the one you have created via Verifications template_step_2; 19 | TC Should a | | |
| 20 | | Files Plots Packages Help Viewer | |
| 21 ##output file (csv) name : | | 💁 New Folder 🛛 😣 Delete 📑 Rename | 🍄 More 🔹 🕓 😳 |
| <pre>22 output_file="T+1_data_collection_France_Step3_VERIFIED.csv" 23</pre> | | > C: > Users > t.laguitton > Desktop > T+ | 1_statistics_programs 🛛 🛝 |
| 24 ##Indicate the separator used for saving your Excel file in csv ("," or ";") | | A Name | Size Modified |
| 25 separator=";" | | 1 | |
| 26 27 ##If you have used a specific alphabet (greek, etc) in your template, please indicate "YES" | | 🗇 💷 .RData | 6.2 KB May 19, 202; |
| 28 special_alphabet="NO" | | Rhistory | 30 KB Oct 12, 2022 |
| 29 | | | |
| 30 31 • ################################### | | Rprofile | 25 B May 4, 2022, |
| <pre>32 here=getwd() # Get the current working directory</pre> | | 📄 🛄 Files | |
| 33 | * | Indicators | |
| 34 | ۱. | Programs | |
| 30:1 (Top Level) ¢ | R Script 💠 | 🗌 🧰 renv | |
| Console Terminal × Jobs × | | renv.lock | 36.4 KB May 4, 2022, |
| (R 4.1.2 · C:/Users/t.laguitton/Desktop/T+1_statistics_programs/ | | T+1_statistics_programs.Rproj | 218 B Oct 13, 2022 |
| | ÷ | | 00010,2022 |

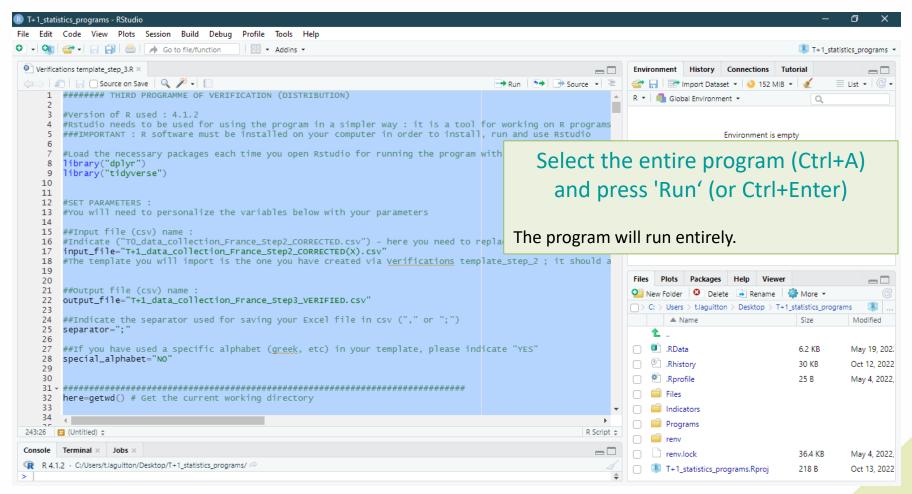




| B T+1_statistics_programs - RStudio File Edit Code View Plots Session Build Debug Profile Tools Help | – 0 X |
|--|---|
| I • I · · · · · · · · · · · · · · · · · | The statistic second as |
| <pre> Verifications template_step_3.R × Source on Save Source on Save Source on Save Verifications (DISTRIBUTION) ######### THIRD PROGRAMME OF VERIFICATION (DISTRIBUTION) #Version of R used : 4.1.2 #Rstudio needs to be used for using the program in a simpler way : it is a ###IMPORTANT : R software must be installed on your computer in order to in #Load the necessary packages each time you open Rstudio for running the program library("dplyr") library("tidyverse") #SET PARAMETERS : </pre> | In the first run of the 3 rd verification program, you need to change the name of the country with your own country name in the input file (line 17) and the output file (line 22) |
| <pre>13 #roa will need to personalize the variables below with your parameters 14 15 ##Input file (csv) name : 16 #Indicate ("T0_data_collection_France_Step2_CORRECTED.csv") - here you need 17 input_file="T+1_data_collection_France_Step2_CORRECTED(x).csv" 18 #The template you will import is the one you have created via Verifications 19 10</pre> | 'Verifications template step 2' |
| <pre>20 21 ##Output file (csv) name : 22 output_file="T+1_data_collection_France_Step3_VERIFIED.csv" 23 24 ##Indicate the separator used for saving your Excel file in csv ("," or ";" 25 separator=";" 26 27 ##If you have used a specific alphabet (greek, etc) in your template, pleas 28 special_alphabet="NO" 29 30 </pre> | <pre>Example : Input_file = "T+1_data_collection_Ireland_Step2_CORRECTED(X).csv" ((X) is the number of the last file exported and corrected after the last run of the second verification program)</pre> |
| 31 * ################################### | Output_file = "T+1_data_collection_Ireland_Step3_VERIFIED.csv" Separator = "." |
| Console Terminal × Jobs × R R.4.1.2 · C:/Users/t.laguitton/Desktop/T+1_statistics_programs/ | Separator = ";" Special_alphabet = "NO" |











| _ | atistics_program t Code Viev | w Plots Session Build Debug Profile Tools Help | | | | | | | | | | | - 0 X | | |
|-----------------------------------|---------------------------------|--|----------|-------------|--------------------------------|--------------------------------------|-------------|---------------|------------|----------|------------|---------------|---------------------|--|--|
| - 0 |) 🕣 • 🕞 | 😭 🧁 🌈 Go to file/function | | | | | | | | | | 🔋 T+1 | statistics_programs | | |
| Verifi | ications template | e_step_3.R × Step3_T0_data × sub_quant_t × | | | _ | Env | ironmei | nt H | History | Connect | tions Tu | itorial | | | |
| $\langle \square \square \rangle$ | a 🖓 Filter | | | Q, | | 😅 🕞 🖙 Import Dataset 🔹 🌖 259 MiB 🔹 🔏 | | | | | | | 🗏 List 🔹 🛛 🕑 🗸 | | |
| ^ | Subcategory | Program running | ÷ | lim_sup 🍦 | | R 🔹 💼 Global Environment 👻 📿 | | | | | | | | | |
| 1 | Cereals without | | 0000000 | 1617.750000 | ^ | | | | | | | | | | |
| 2 | Cereals without | | 0000000 | 385.250000 | | | | | | Environm | nent is em | pty | | | |
| 3 | Cereals without | The (Marifications to maleta, stop, 2) are grown as | 2894573 | 8.800000 | | | | | | | | | | | |
| 4 | Cereals without | The 'Verifications template_step_3' program can | 9777955 | 1.550000 | | | | | | | | | | | |
| 5 | Cereals without | take quite a long time (a few seconds to a few | 0000000 | 75.287500 | | | | | | | | | | | |
| 6 | Cereals without | minutes) to run | 1221245 | 1.650000 | | | | | | | | | | | |
| 7 | Cereals without | minutes) to run | 4210855 | 13.750000 | | | | | | | | | | | |
| 8 | Cereals without | | 0222045 | 0.250000 | | | | | | | | | | | |
| 9 | Cereals without | When the program is running and has not finished | 3552714 | 13.275000 | | | | | | | | | | | |
| 10 | Cereals without | | 0000000 | 224.000000 | _ | | | | | | | | | | |
| 11 | Cereals without | its execution, a stop sign appears at the top right | 0000000 | 53.000000 | | File | s Plo | ts F | Packages | Help | Viewer | | | | |
| 12 | Cereals without | of the console. This means that the program is | 0000000 | 1.000000 | | 0 | New Fol | der | O Delet | te 📑 R | Rename | 🎡 More 👻 | C | | |
| | Cereals without | running and you must not close the | 9888978 | 0.300000 | | | $C_{i} > U$ | sers > | t.laguitto | n > Desk | top > T+1 | _statistics_p | rograms 🔋 | | |
| 14 | Cereals without | | 7105427 | 8.800000 | | | | Nam | ne | | | Size | Modified | | |
| 15 | Cereals without | 'T+1_statistics_programs – Rstudio' window or the | 0111022 | 0.200000 | - | | 1. | | | | | | | | |
| Showing | 1 to 16 of 1,638 | program will stop running. | | | | | . 🖭 .R | | | | | 6.2 KB | May 19, 202 | | |
| Console | Terminal × | | | | | | | histor | | | | 30 KB | Oct 12, 2022 | | |
| 😱 R 4 | 4.1.2 · C:/Users/ | 't.laguitton/Desktop/T+1_statistics_programs/ 🖄 | | | | | · 🖄 .R | · · · · | e | | | 25 B | May 4, 2022 | | |
| + | } | | | | $\mathbf{\nabla}_{\mathbf{A}}$ | 0 | Fi | les dicato | | | | | | | |
| + pb | o_outliers≺ `s list | <pre>c-base::paste(pb_outliers,sep=" ", collapse=" ") #concatenate all the info</pre> | ormatio | n from the | pb_o | | | rogran | | | | | | | |
| | | a[i,"Problems_outlier"]<-pb_outliers | in the I | right colu | mn/li | | - | rogran env | 115 | | | | | | |
| + St | | and the second sec | | | | | | . I I V | | | | | | | |
| + St | | ep3_T0_data table | | | | | D re | nv.loc | -k | | | 36.4 KB | May 4, 2022 | | |





| _ | tistics_programs - RStudio Code View Plots Session Build Debug Pro | ofile Tools | Help | | | | - 0 | × |
|----------|--|-----------------|-----------------|------------------|------------|---------------|---|---------|
| - Q | Go to file/function | Addins | | | | | T+1_statistics_pn | ograms |
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| | | | | | | | 🔍 💣 🔒 🐨 Import Dataset 🔹 🔮 259 MiB 🔹 🕖 🗮 List 🔹 | • C • |
| * | Subcategory_name_VN | Q1 [‡] | Q3 [‡] | IQR [‡] | IQRx1_5 | lim_inf | 🗘 lim sun 🗘 🛛 R 💌 💼 Global Environment 💌 🔼 🔾 | |
| 1 | Cereals without added sugar/Energy_kJ_num | 1531.50000 | 1566.000 | 34.50000 | 51.750000 | 1479.75000000 | After running the program | ^ |
| 2 | Cereals without added sugar/Energy_kCal_num | 361.50000 | 371.000 | 9.50000 | 14.250000 | 347.250000000 | Alter fulling the program | |
| 3 | Cereals without added sugar/Fat_num | 4.67500 | 6.325 | 1.65000 | 2.475000 | 2.199999999 | | |
| 4 | Cereals without added sugar/Saturated_fat_num | 0.80000 | 1.100 | 0.30000 | 0.450000 | 0.349999999 | Several tables appear next to the R program | |
| 5 | Cereals without added sugar/Carbohydrates_num | 60.22500 | 66.250 | 6.02500 | 9.037500 | 51.187500000 | | |
| 6 | Cereals without added sugar/Sugar_num | 0.90000 | 1.200 | 0.30000 | 0.450000 | 0.45000000 | script. These tables are working tools for the R | |
| 7 | Cereals without added sugar/Protein_num | 11.00000 | 12.100 | 1.10000 | 1.650000 | 9.35000000 | program but you don't need to look at them (only | |
| 8 | Cereals without added sugar/Salt_num | 0.00000 | 0.100 | 0.10000 | 0.150000 | -0.15000000 | if there are errors or warnings in the console but | |
| 9 | Cereals without added sugar/Fibre_num | 8.27500 | 10.275 | 2.00000 | 3.000000 | 5.275000000 | | |
| 10 | Cereals without added sugar/Energy_as_consumed_kJ_num | 224.00000 | 224.000 | 0.00000 | 0.000000 | 224.00000000 | in this case you have to tell us so we can help | · • |
| 11 | Cereals without added sugar/Energy_as_consumed_kCal_num | 53.00000 | 53.000 | 0.00000 | 0.000000 | 53.00000000 | you). | |
| 12 | Cereals without added sugar/Fat_as_consumed_num | 1.00000 | 1.000 | 0.00000 | 0.000000 | 1.00000000 | | C |
| 13 | Cereals without added sugar/Saturated.fat_as_consumed_nu | 0.30000 | 0.300 | 0.00000 | 0.000000 | 0.299999999 | | ß |
| 14 | Cereals without added sugar/Carbohydrates_as_consumed | 8.80000 | 8.800 | 0.00000 | 0.000000 | 8.800000000 | At the end of the vernications template_step_s | ied |
| 15 | Cereals without added sugar/Sugar_as_consumed_num | 0.20000 | 0.200 | 0.00000 | 0.000000 | 0.20000000 | program execution, you should see the sentence | |
| howing 1 | to 16 of 1,638 entries, 7 total columns | | | | | | | 9, 202 |
| Console | Terminal × Jobs × | | | | | | highlighted in yellow in the console. | 2, 2022 |
| 🗬 R 4 | 1.2 · C:/Users/t.laguitton/Desktop/T+1_statistics_programs/Fil | les/ 🖈 | | | | | | , 2022 |
| | e if(separator==","){ ils::write.csv(Step3_T0_data_f,file=ou | tout file | | | MOC-EAL SE | | The program exports an excel file named | |
| + } | TISWite.csv(steps_to_uata_t,tte=ou | cpuc_rrre | :,11a= | ,i ow.na | mes=FALSE | , | | |
| > | | | | | | | T+1_data_collection_ <i>country</i> _Step3_VERIFIED.csv | |
| | t("The file should appear in the folde he file should appear in the folder 'F | | ") | | | | to your "Files" folder in the | , 2022 |
| > | ne fire shourd appear in the folder F | ries | | | | | "T+1 statistics programs" folder. | 8, 2022 |
| | | | | | | | | |





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|-------------------------------|---|------------------|-------------------|--|
| ^ | Nom | Modifié le | Туре | Tailla |
| Accès rapide | 🕼 Best-ReMaP_nomenclature.csv | 12/07/2022 16:48 | Fichier CSV Micro | Create a copy of the file |
| 🔜 Bureau 🛛 🖈 | pre_existing_data_France.csv | 03/10/2022 15:52 | Fichier CSV Micro | create a copy of the me |
| 🖌 Téléchargements 🛛 🖈 | T+1_data_collection_France.csv | 10/10/2022 17:10 | Fichier CSV Micro | exported by R |
| Documents 🖈 | T+1_data_collection_France_Step1_CORRECTED(X).csv | 10/10/2022 17:04 | Fichier CSV Micro | caported by R |
| 🖃 Images 🛛 🖈 | T+1_data_collection_France_Step1_VERIFIED.csv | 10/10/2022 17:13 | Fichier CSV Micro | |
| Captures d'écran guide | T+1_data_collection_France_Step2_CORRECTED(X).csv | 03/10/2022 15:11 | Fichier CSV Micro | In the 'Files' folder, you will find the fil |
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| 10 | 1661 | 937 Ireland | 2021 Breakfast Chocolate 4,09E+12 | | | |
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| 12 | 1665 | 916 Ireland | 2021 Breakfast Crunchy fr 4,09E+12 | | | |
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| 15 | 1675 | Ireland | 2021 Breakfast Crunchy fr 4,09E+12 | | 0 g | |
| 16 | 1676 | Ireland | 2021 Breakfast Crunchy fr 4,09E+12 | | | |
| 17 | 1677 | 937 Ireland | 2021 Breakfast Chocolate 4,09E+12 | | | |
| 18 | 1680 | 996 Ireland | 2021 Breakfast Sweet cer 4,09E+12 | | | |
| 19 | 1681 | Ireland | 2021 Breakfast Traditiona 4,09E+12 | | disco Toasted H Toasted H Protein G Protein G Traffic ligh Wholegra 400 g | |
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| 1 | Product_c F | Father_pr | Country | Year | Category_name | Subcategory_name | | Bar_code | Assortme | Brand_na | Brand_ow | v Type_of_ | tLegal_n |
| 26 | 1692 | | Ireland | 2021 | Fresh dairy products and desserts | Classic sweet yogh | urts and fermented milks | 4,09E+12 | No | Brooklea | Aldi | Hard disc | c Low Fat |
| 27 | 1705 | | Ireland | 2021 | Fresh dairy products and desserts | Classic sweet yogn | urts and fermented milks | 4,09E+12 | No | Brooklea | Aldi | Hard disc | c Fat Free |
| 28 | 1706 | | Ireland | 2021 | Fresh dairy products and desserts | Classic plain yoghu | rts and fermented milks with no added sugar | 409E+11 | No | Brooklea | Aldi | Hard disc | c Natural |
| 29 | 1707 | | Ireland | 2021 | Fresh dairy products and desserts | Gourniet plain yog | nurts and fermented milks with no added sugar | 4,09E+11 | No | Brooklea | Aldi | Hard disc | c Natural |
| 30 | 1708 | | Ireland | 2021 | | | urts and fermented milks | 4,09E+12 | No | Brooklea | Aldi | Hard disc | c Fat Free |
| 31 | 1709 | | Ireland | 2021 | | | nurts and fermented milks with no added sugar | 4,09E+12 | No | Brooklea | Aldi | Hard disc | c Greek S |
| 32 | 1727 | | Ireland | 2021 | Fresh dairy products and desserts | Gourmet sweet you | phurts and fermented milks | 4.09F+12 | No | Brooklea | Aldi | Hard disc | c Peach a |
| 33 | 1732 | 550 | Ireland | 2021 | Fresh dairy products and desserts | Gourmet sweet yo | Evample of proble | om f | 0.000 | but | tha | 2 | c Raspber |
| 34 | 1733 | 550 | Ireland | 2021 | Fresh dairy products and desserts | Gourmet sweet yo | Example of proble | enni | ounc | ı by i | ine | þ | c Raspber |
| 35 | 1736 | | Ireland | 2021 | Fresh dairy products and desserts | Classic sweetened | () (avifications tomala | + | to m | 21 | | | c Fat Free |
| 36 | 1746 | | Ireland | | | Classic sweet yogh | 'Verifications templa | te_s | tep_ | 3 pr | ogra | | c Strawbe |
| 37 | 1752 | | Ireland | 2021 | | Fresh desserts wit | | | | | _ | | c Clotted |
| 38 | 1758 | | Ireland | 2021 | Fresh dairy products and desserts | Artificially-sweete | | | | | | | c 2x fat fr |
| 39 | 1762 | 405 | Ireland | | | Artificially-sweete | line 28 \rightarrow the product belor | igs to | the ca | itegor | v 'Fre | SII - | c Fat Free |
| 40 | 1764 | | Ireland | | | Artificially-sweete | • | - | | - | • | P | c Fat free |
| 41 | 24411 | | Ireland | | | Cured ham | dairy products desserts' and | the s | ubcat | egory | 'Class | | c A select |
| 42 | 1766 | | Ireland | | | Artificially-sweete | alon vogburts and tormont | od mi | lke wi | th no | adda | A | c Fat free |
| 43 | 1767 | 405 | Ireland | | | Artificially-sweete | | eu iii | | | auue | F | c Fat free |
| 44 | 1770 | | Ireland | | | Gourmet sweet yo | sugar' | | | | | - | c Greek st |
| 45 | 1771 | _ | Ireland | 2021 | Fresh dairy products and desserts | Gourmet plain yog | | | | | | | c Greek S 👻 |
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| 1 Satu | irated C | arbohydi Su | igar I | Protein S | alt Fibr | e Ni | utrient_ | Energy_as | Energy_as | Fat_as_co | Saturated | Carbohyc | l Sugar_as_ | Protein_a | Salt_as_co | Fibre_as_ | Commen | nt Category_ | Subcategc bar | r_code_starts | 5 |
| 26 | 2,1 | 13 | 12 | 3 | 0,1 <0,0 | 5 | | | | | | | | | | | | 3 | 614 | | _ |
| 27 <0,1 | | 13 | 11 | <u>81</u> | 0,1 <0,5 | | | | | | | | | | | | | 3 | 614 | | |
| 28 <mark><0,1</mark> | | 4,9 | 3,5 | 10 | 0,1 <0,5 | | | | | | | | | | | | no ingred | di 3 | 612 | | |
| 29 | 7,6 | 3,7 | 3,2 | 6,4 | 0,2 <0,5 | | | | | | _ | | | - | | | | | | | |
| 30 | 0,1 | 9,1 | 7,7 | 5,9 | 0,2 <0,5 | | | | Exa | Iam | e of a | a pro | oblen | n tou | ind t | ov th | e 'Ve | erifica | ations | | |
| 31 | 6,4 | 4,3 | 3,4 | 3,1 | 0,1 <0,5 | | | | | | | | | | | · · | | | | | |
| 32 | 4,5 | 16 | 14 | 2,7 | 0,1 <0,5 | | | | | | t | emp | late | step | · 3' ı | orogi | ram | | | | |
| 33 34 | 4,6 5,1 | 16 13 | 15 | 3,3 2,7 | 0,1 <0,5 | 1,3 | | | | | | | _ | | | 0 | | | | | |
| 35 | 0,2 | 13 | 12 10 | 2,7 8,2 | 0,1 | | | | | | | | | | | | | | | | |
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| 37 | 7,9 | 17 | 6,6 | 3,6 | 0,1 <0,3 | 0,8 | | | | | | | | | acco a | p.00.0 | | | | | |
| 38 | 0,1 | 8,3 | 6,8 | 5,3 | 0,1 <0,5 | | | protei | n cont | ent. | | | | | | | | | | | |
| 39 | 0,1 | 6,6 | 5,4 | 5 | 0,2 <0,5 | | | | | | | | | | | | | | | | |
| 40 | 0,1 | 6,3 | 5,2 | 4,7 | 0,2 0,2 | 0,8 | | You m | ust ch | ock the | at the v | alue ei | ntered f | for the | nrotei | n conte | ent is c | orrect o | or/and th | at the | |
| 41 | 6,5 | 0 | 0 | 26 | 5,2 | 0 | | | | | | | | | • | | | | in and th | at the | |
| 42 | 0,2 | 8,5 | 6,8 | 5,2 | 0,1 <0,5 | - | | classif | ication | (categ | gory an | a/or si | ubcateg | ory) of | the pr | oduct | is corre | ect. | | | |
| 43 | 0,1 | 8,3 | 6,8 | 5,3 | 0,1 <0,5 | | | | | | | | | | | | | | | | |
| 44 | 3,7 | 12 | 11 | 4 | 0,1 <0,5 | | | If corr | oction | is roa | uirod y | | ll thon | nood te | Corro | oct the | nrotoi | n conto | nt value | or the | |
| 45 | 4,4 | 4,4 | 3,5 | 4,6 | 0,1 <0,5 | | | | | | | | | | Corre | et the | protei | inconte | int value | or the | - |
| 4 | Þ | T+1_data | collectio | on_France_S | | | | catego | ory/sul | ocateg | ory for | this p | roduct. | | | | | | | | |
| Ready | | | | | | | | | | | | | | | | | | | | + 10 | 0 % |





<u>Terms that may appear in the 'Problems_outlier' field following the</u> <u>'Verifications template_step_3' program, their meaning and what to do</u>

| <u>Problem</u> | <u>Meaning</u> | Solution |
|--|---|---|
| Energy_kJ Fat Saturated_fat Carbohydrates Sugar Protein | The nutritional value of the product for this nutrient appears to be an outlier compared to the nutritional value for this nutrient of other products in the same subcategory. | → Check the pictures of the product, to be sure that the value entered in the template is the correct one. If not, you must enter the correct value directly in the Excel file in .csv format. And/or → Check that the category and subcategory associated to the product are the correct ones (you can help you with the WP5 classification guidelines that have been created for each food category). If not, you must enter the correct information (category name + code and/or subcategory name + code) directly in the Excel file in .csv format. Else → Nutritional value and subcategory entered for this product are the correct ones, no correction is needed. You must indicate in the 'Comments' field: "outliers checked". Be careful! A product can have wrong values + wrong classification, it is important to check both for the product. |





- Be careful! When saving the file, you must be sure that the barcodes appear in full and not in scientific format. If this is the case, you must repeat the procedure on pages 24→28.
- Once the corrections have been made and the barcodes are in the correct format, you can save the file *T+1_data_collection_country_Step3_CORRECTED.csv* and close it.
- You will have to run this corrected file again in the 'Verifications template_step_3' program to make sure you haven't missed a check.

Your Rstudio interface must be cleaned up before running the 'Verifications template_step_3' program again. All cleaning steps are described on <u>pages 62→68</u>.





2nd running of 'Verifications template_step_3' program

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|--|----------------------------|
| <pre> • Verifications template_step_38 × • • • • • • • • • • • • • • • • • • •</pre> | |
| <pre>Source of Save</pre> | T+1_statistics_programs |
| <pre>####### THIRD PROGRAMME OF VERIFICATION (DISTRIBUTION) #Version of R used : 4.1.2 #Rstudio needs to be used for using the program in a simpler way : it is a tool ###MPORTANT : R software must be installed on your computer in order to instal #Load the necessary packages each time you open Rstudio for running the program #Load the necessary packages each time you open Rstudio for running the program #Load the necessary packages each time you open Rstudio for running the program #Load the necessary packages each time you open Rstudio for running the program #Load the necessary packages each time you open Rstudio for running the program #Load the necessary packages each time you open Rstudio for running the program #Load the necessary packages each time you open Rstudio for running the program #Load the necessary packages each time you open Rstudio for running the program #Load the necessary packages each time you open Rstudio for running the program #Load the necessary packages each time you open Rstudio for running the program #Load the necessary packages each time you open Rstudio for running the program #Load the necessary packages each time you open Rstudio for running the program #Load the necessary packages each time you open Rstudio for running the program #Indicate (To data_collection_France_Step3_CORRECTED.csv") - here you need to ##Indicate the separator used for saving your Excel file in csv ("," or ";") ##Indicate the separator used for saving your Excel file in csv ("," or ";") ##If you have used a specific alphabet (greek, etc) in your template, please in ##If you have used a specific alphabet (greek, etc) in your template, please in ##If you have used a specific alphabet (greek, etc) in your template, please in ##If you have used a specific alphabet (greek, etc) in your template, please in ##If you have used a specific alphabet (greek, etc) in your template, please in ##If you have used a specific alphabet (greek, etc) in your template, please in ##If you have used a specific alphabet (greek, e</pre> | Tutorial |
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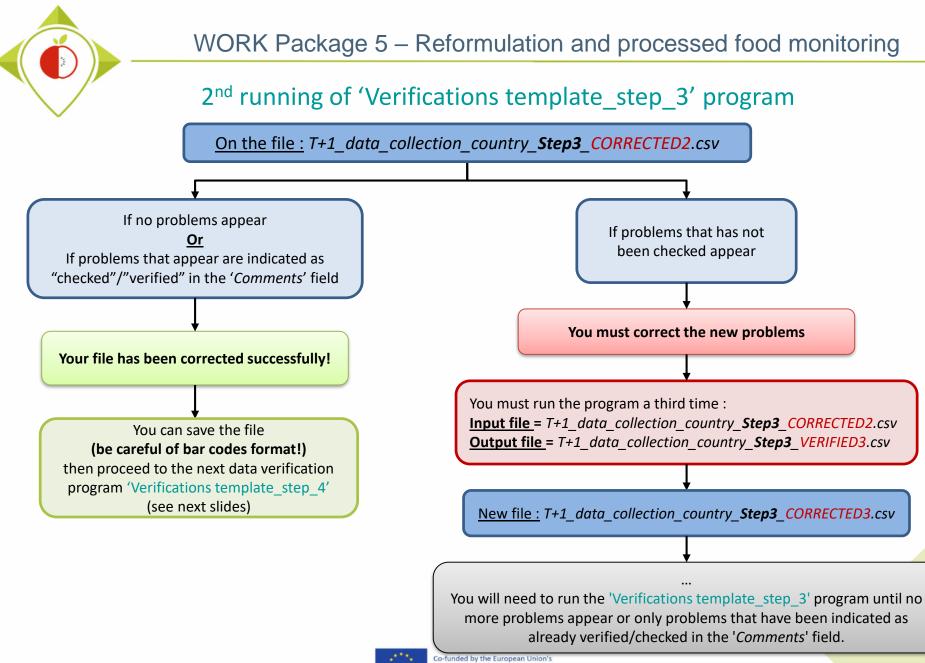


2nd running of 'Verifications template_step_3' program

- At the end of this second run, you get in your "files" folder a file called: "T+1_data_collection_country_Step3_VERIFIED2.csv"
- You must create a copy of this file and call it : "T+1_data_collection_country_Step3_CORRECTED2.csv"

ightarrow It is on this file that you will make the modifications following the checks







3) Running of the programs

A. Part 1 : R setup program

B. Part 2 : Verification programs and template cleaning/standardization

i. 1st verification program : 'Verifications template_step_1'

ii. 2nd verification program : 'Verifications template_step_2'

iii. 3rd verification program : 'Verifications template_step_3'

iv. 4th verification program : 'Verifications template_step_4'





4th verification program : 'Verifications template_step_4'

Presentation of the 'Verifications template step_4' program :

- The 4th verification program allows you to highlight problems in the pairing of your T+1 data with your pre-existing data.
- This progam will allow, for example, to :
 - Check that the information entered matches between 2 paired products (Brand, category name and code, subcategory name and code)
 - Check that the father_product_codes indicated in the T+1 data do exist in the preexisting data file.
 - Check that unique products_code given in your T+1 data doesn't 'exist in your preexisting data
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4th verification program : 'Verifications template_step_4'

<u>Requirements before starting the program 'Verifications template_step_4' :</u>

- The programs 'Verifications template_step_1', 'Verifications template_step_2' and 'Verifications template_step_3' should have been run on your data
- You should no longer have any problems appearing or only problems that have been notified as verified after running the program 'Verifications template_step_3'
- You must have your template in your possession and it must now be called: T+1_data_collection_country_Step3_CORRECTED(X).csv (with the name of your own country) ((X) is the number of the last file exported and corrected after the last run of the first verification program)

You need to make sure that the barcodes in this file appear in full and not in scientific format (see procedure pages $24 \rightarrow 28$)

 You must also have in your possession your pre-existing data file in .csv format called pre_existing_data_country.csv and your file Years_of_interest.csv that must have been filled in indicating the years chosen in your pre-existing data for pairing with the T+1 data.

Your Rstudio interface must have been cleaned up before running the program. All cleaning steps are described on pages $62 \rightarrow 68$.



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| <pre>1 ######## FOURTH PROGRAMME OF VERIFICATION (VERIFICATION FOR PAIRED PRODUCTS) 2 ###THIS PROGRAM SHOULD BE RUN AFTER THE THREE STEPS OF VERIFICATION HAVE BEEN COMPLETED 3</pre> | ^ | R 💌 💼 Global Enviro | onment × | Q, | |
| 4 #Version of R used : 4.1.2 5 #Rstudio needs to be used for using the program in a simpler way : it is a tool for working on R progr 6 ###IMPORTANT : R software must be installed on your computer in order to install, run and use Rstudio 7 | ams | | Environment is emp | pty | |
| 8 9 ##dplyr : 1.0.7 10 ##tidyverse : 1.3.1 | Vori | fications | tomplat | o sto | $n \Lambda'$ |
| | VEII | incations | templati | e_ ste | P_4 |
| <pre>12 #Load the necessary packages each time you open Rstudio for running the program with the functi 13 library("dplyr") 14 library("tidyverse")</pre> | | progra | am open | ed | |
| 15 16 17 #SET PARAMETERS : | | | | | |
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| | | Files Plots Packag | ges Help Viewer | | _ |
| 19 20 ##Input file (csv) name : 21 #Indicate ("T+1_data_collection_France_Step3_CORRECTED.csv") - here you need to replace "France" by th | ne na | Files Plots Package Image: Second se | | 🎲 More 💌 | _ |
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Running of 'Verifications template_step_4' program

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Setting parameters of the 4th verification program

In the first run of the 4th verification program, you need to change the name of the country with your own country name in the input file (line 17) and the output file (line 33)

In this program, you will also need to import your pre-existing data file. To do this, you need to enter the name of your own country in the file name line 26.

You must also indicate the separator and if you have a specific alphabet as in the program 'Verifications template_step_1', 'Verifications template_step_2' and 'Verifications template_step_3'.

Example :

Input_file = "T+1_data_collection_Ireland_Step2_CORRECTED(X).csv"
 ((X) is the number of the last file exported and corrected after the last run of the second verification program)

- Preexisting_data_file = "pre_existing_data_Ireland.csv"
- **Output_file =** "T+1_data_collection_Ireland_Step3_VERIFIED.csv"
- Separator = ";"
- Special_alphabet = "NO"





| Maria | tations template step 4.R × | _ | Environment. | Uistan Constitues T | | |
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| 1 2 3 | ######## FOURTH PROGRAMME OF VERIFICATION (VERIFICATION FOR PAIRED PRODUCTS) ###THIS PROGRAM SHOULD BE RUN AFTER THE THREE STEPS OF VERIFICATION HAVE BEEN COMPLETED | * | R 💌 🛑 Glob | pal Environment 💌 | Q, | |
| 4 | #Version of R used : 4.1.2 | | | | | |
| 5 | #Rstudio needs to be used for using the program in a simpler way : it is a tool for working on | n R programs | | Environment is em | antu | |
| 6 7 | ###IMPORTANT : R software must be installed on your computer in order to install, r | lect the | ontiro | program (C | trl+∆) | |
| 8 | 50 | | ciffic | program (C | | |
| 9 | ##dplyr : 1.0.7 | | | | + | |
| 10 | ##tidyverse : 1.3.1 | and press | s Run | (or Ctrl+En | iter) | |
| 11 12 | #Load the necessary packages each time you open Rstudio for running the program wit | 1 - C | | • | · · · | |
| 13 | library("dplyr") | | | | | |
| 14 | 1 dependence ("et dependence") | | | | | |
| 15 | I he provide the second s | ogram will | run enti | irely. | | |
| 16 | · · · · · · · · · · · · · · · · · · · | - | | - | | |
| | | | | | | |
| 17 | #SET PARAMETERS : | | | | | |
| 17 18 | #SET PARAMETERS : #You will need to personalize the variables below with your parameters | | | | | |
| 17 18 19 | #You will need to personalize the variables below with your parameters | | Files Plots | Packages Help Viewer | | _ |
| 17 18 19 20 | #You will need to personalize the variables below with your parameters ##Input file (csv) name : | ce" by the na | | | - | |
| 17 18 | #You will need to personalize the variables below with your parameters | ce" by the na | 💁 New Folder | 🗿 Delete 🗼 Rename | 🎲 More 👻 | |
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| 17 18 19 20 21 22 23 24 | <pre>#You will need to personalize the variables below with your parameters ##Input file (csv) name : #Indicate ("T+1_data_collection_France_Step3_CORRECTED.csv") - here you need to replace "France_input_file="T+1_data_collection_France_Step3_CORRECTED(X).csv" ##Pre-existing data file (csv) name :</pre> | ce" by the na | New Folder | 🗿 Delete 🗼 Rename | 🎲 More 👻 | ams 🕀 |
| 17 18 19 20 21 22 23 24 25 | <pre>#You will need to personalize the variables below with your parameters ##Input file (csv) name : #Indicate ("T+1_data_collection_France_Step3_CORRECTED.csv") - here you need to replace "France input_file="T+1_data_collection_France_Step3_CORRECTED(X).csv" ##Pre-existing data file (csv) name : #Indicate ("Name_of_pre-existing_data_file.csv")</pre> | ce" by the na | New Folder | Oelete Rename > t.laguitton > Desktop > T+1 | More • 1_statistics_program | ams 🕀 |
| 17 18 19 20 21 22 23 24 25 26 | <pre>#You will need to personalize the variables below with your parameters ##Input file (csv) name : #Indicate ("T+1_data_collection_France_Step3_CORRECTED.csv") - here you need to replace "France_input_file="T+1_data_collection_France_Step3_CORRECTED(X).csv" ##Pre-existing data file (csv) name :</pre> | ce" by the na | New Folder | Delete Rename S tlaguitton > Desktop > T+1 | More • 1_statistics_progra Size | ams 🔹 |
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| 17 18 19 20 21 22 23 24 25 26 27 28 29 | <pre>#You will need to personalize the variables below with your parameters ##Input file (csv) name : #Indicate ("T+1_data_collection_France_Step3_CORRECTED.csv") - here you need to replace "France input_file="T+1_data_collection_France_Step3_CORRECTED(X).csv" ##Pre-existing data file (csv) name : #Indicate ("Name_of_pre-existing_data_file.csv") preexisting_data_file="pre_existing_data_France.csv" ##Nomenclature file (csv) name : ##Nomenclature file (csv) name : ##The csv file should be saved in the same folder as the one containing your data set in csv</pre> | te" by the na | New Folder | Delete Rename Staguitton > Desktop > T+1 | More • 1_statistics_progra Size | ams R Modifie May 19, Oct 12, |
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| 1 | 18 Bread products | 2016-2017 | 2016-2017 | After running the program | |
| 2 | 1 Breakfast cereals | 2016-2017 | 2016-2017 | Arter running the program | |
| 3 | 5 Delicatessen meats a | and similar 2016-2017 | 2016-2017 | | _ |
| 4 | 3 Fresh dairy products | and desserts 2016-2017 | 2016-2017 | Several tables appear next to the R program | |
| 5 | 9 Soft drinks | 2016-2017 | 2016-2017 | | |
| 6 | 41 Baby food | 2017 | 2017 | script. These tables are working tools for the R | |
| Showing 1 to 6 of 6 entrie | . 4 total columns | | | | |
| Console Terminal × | | | | At the end of the 'Verifications template step 4' | |
| | Llaguitton/Desktop/T+1_sta | atistics programs/Files/ | | | |
| > #Create the f | nal table T1_dat; yr::select(T1_dat _data_f table | | category_code","b | program execution, you should see the sentencehighlighted in yellow in the console. | |
| + utils::write + }else if(separ + utils::write + } > print("The fi | <pre>.csv2(T1_data_f, ator==","){ .csv(T1_data_f,f' e should appear</pre> | file= output_file,na=" ile= output_file,na=" in the folder 'Files'" ne folder 'Files'" | ",row.names=FALSE | The program exports 2 excel files named T+1_data_collection_country_Step4_VERIFIED.csv and Brand_names_extraction.csv to your "Files" folder in the "T+1 statistics programs" folder. | |



| → ✓ ↑ → T+1_statistics | s_programs → Files | | | ٽ ~ | |
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| 🖈 Accès rapide | Best-ReMaP_nomenclature.csv | 12/07/2022 16:48 | Fichier CSV Micro | 34 K | Ko l |
| 🔜 Bureau 🛛 🖈 | Brand_names_extraction.csv | 14/10/2022 11:36 | Fichier CSV Micro | 5 K | 6 |
| 🖌 Téléchargements 🛛 🖈 | pre_existing_data_France.csv | 03/10/2022 15:52 | Fichier CSV Micro | 334 K | (o |
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Running of 'Verifications template_step_4' program

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| 2 | 3966 | 3 | Muller Corner | Muller | | | | | | | | |
| 3 | 39701 | 4 | Muller Corner | Muller | | | | | | | | |
| 4 | 39702 | 4 | Muller Corner | Muller | | | | | | | | |
| 5 | 39641 | 26 | Muller Corner | Muller | | | | | | | | |
| 6 | 39642 | 26 | Muller Corner | Muller | | | | | | | | |
| 7 | 3969 | | Muller Corner | Muller | | | | | | | | |
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| Rea | | | | | | | | | | | | |

"Brand_names_extraction.csv" file

This file shows the products paired between your pre-existing data and your T+1 data that have 'brand_names' which are not identical.

→ This file is only used to check if there are no major pairing errors.
Example :

brand_name_preexisting_data = Kellogg's
brand name T+1 = Carrefour

In this case, you need to check the matching of the two products: maybe the product has been matched to the wrong product in the pre-existing data and you need to find the right product in the preexisting data, maybe there is a typing error in the father_product_code, etc.

→ If two brand names are different but it is a slight difference ("Lidl Milbona" vs. "Milbona", "Muller" vs. "Muller Corner", "Kellogg's" vs. "Kelloggs", etc.), then you do <u>not need to modify</u> the information.

We advise you not to change the 'brand_name' in your pre-existing data as you may no longer have the product pictures in your possession to be sure of what you are changing.



| → ★ ↑ → T+1_statistics_p | programs > Files | | | ∽ ē | . ○ Rechercher dans : Files |
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| 9 | 1659 | Ireland | 2021 | Breakfast | Chocolate | 4,09E+12 | No | Harvest M | Aldi | Ha | file which is a new version of | |
| 10 | 1661 | 937 Ireland | 2021 | Breakfast | Chocolate | 4,09E+12 | No | Harvest M | Aldi | Ha | 375 g | |
| 11 | 1663 | 586 Ireland | 2021 | Breakfast | Cereals w | 4,09E+12 | No | Harvest M | Aldi | Ha | your T+1 data collection template | |
| 12 | 1665 | 916 Ireland | 2021 | Breakfast | Crunchy fr | 4,09E+12 | No | Harvest M | Aldi | Ha | your I+I data conection template 500 g | |
| 13 | 331 | Ireland | 2021 | Breakfast | Crunchy n | 4,09E+12 | No | Harvest M | Aldi | Ha | in which you will have to make 500 g | |
| 14 | 1674 | 597 Ireland | 2021 | Breakfast | Sweet cer | 4,09E+12 | No | Harvest M | Aldi | Ha | m which you will have to make 500 g | |
| 15 | 1675 | Ireland | 2021 | Breakfast | Crunchy fi | 4,09E+12 | No | Harvest M | Aldi | Ha | modifications (corrections | |
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| 日 | T+1_data_collection_France_Step4_CORRECTED.csv - Excel | E - I × LAGUITTON Thomas & Share | | | | | | | | | |
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Excel file to modify after 'Verifications template_step_4' program

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Excel file to modify after 'Verifications template_step_4' program

| | و چ د چ | °. ▼ ∓ | | | | | T+1_data_o | ollection_Fi | rance_Step4_0 | CORRECTE | D.csv - Excel | | чч | | | 0 | F | - | o × |
|-------|--|-------------------------|--------------------|---|------------------------|------------|--------------------------|--------------|---------------------------|------------------------|---------------------------|--------------------------------|------------------|--------------|--------------|----------------------------------|------------|----------------------|---------|
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| 1 Pro | duct_code | Father_product_code | Country | Year | Category_ | Subcatego | Bar_code | Assortme | Brand_nar | Brand_o | w Type_of_ | Legal_na | n Legal_r | nan Comme | rci Comme | rci FOP_labe | Nutri_S | co Ingredien | _ |
| 2 | 1650 | | Ireland | | | Cereals w | | | Kavanagh' | | Hard disco | Gluten F | re Gluten | Fre Gluten I | Fre Gluten F | Fre None fro | n | Gluten Fr | e 50 |
| 3 | 1651 | | Ireland | | | Traditiona | | | Kavanagh' | | | - | | gra High On | - | _ | | Jumbo Oa | |
| 4 | 1653 | | Ireland | | | Cereals w | | | Kavanagh' | | | | | PoMicrow | | | · | Wholegra | |
| 5 | 1654 | | Ireland | | | Cereals w | 4,09E+12 | No | Kavanagh | Aldi | Hard disco | Wholegr | a Whole | gra Organic | Ju Organic | Ju Traffic lig | ł | Oat Flake | s 75 |
| 6 | 1655 | | Ireland | | Breakfast | | _ | | | | | · · | | | 1 4 | | | | |
| 7 | 1657 | | Ireland | | Breakfast | | Exa | amp | le of | a pr | oble | m to | ounc | d by t | :he ' | Veriti | cati | ons | |
| 8 | 1658 | 6003 | reland | | Breakfast Breakfast | | | | | | | | | · · · · | | | | | |
| 10 | 1659 1661 | 027 | Ireland Ireland | | Breakfast | | | | 1 | tem | plate | ste | ep 4 | l' pro | gran | n | | | |
| 11 | 1663 | | i Ireland | | Breakfast | | | | | | | _ | | 1 | 0 | | | | |
| 12 | 1665 | | i Ireland | | Breakfast | | | | | | | | | | | | | | |
| 13 | 331 | 510 | Ireland | | Breakfast | Line 8 | \rightarrow the | e colur | nn 'Pro | hlem | s' indica | tes nc | nexis | stent_fa | other r | oroduct | code | 2 | |
| 14 | 1674 | 597 | Ireland | | Breakfast | Line o | | | | brenne | | | | ic | | | | - | |
| 15 | 1675 | | Ireland | | Breakfast | | | | | | | | | | | | | | |
| 16 | 1676 | | Ireland | | Breakfast | The co | ode "6 | 003″ c | loesn't | exist i | in your | pre-e> | kisting | g data fi | le. | | | | |
| 17 | 1677 | 937 | / Ireland | 2021 | Breakfast | Vourm | nust co | rroct t | his inf | ormat | ion hy | chocki | ing if | the nro | duct ir | | - +1 co | llection | |
| 18 | 1680 | 996 | Ireland | 2021 | Breakfast | | | | | | - | | | | | - | | | |
| 19 | 1681 | | Ireland | 2021 | Breakfast | (1658 |) has a | tathe | r produ | uctin | your pr | e-exis | sting o | data an | d tindi | ng the | correc | t | |
| 20 | 1682 | 850 | Ireland | 2021 | Breakfast | fathe | r prod | luct_c | ode. | | | | | | | | | | |
| 21 | 1683 | | Ireland | 2021 | Breakfast | | | | | | | | | | | | | | |
| | ► T | +1_data_collection_Fram | nce_Step | + | | | | | | | : [| • | | | | | | | Þ |
| Ready | | | | | | | | | | | | | | | | | ─ - | - | + 100 % |





Excel file to modify after 'Verifications template_step_4' program

<u>Terms that may appear in the 'Problems' field following the 'Verifications</u> <u>template_step_4' program, their meaning and what to do</u>

| <u>Problem</u> | Meaning | Action |
|--------------------------------------|---|--|
| Nonexistent_father _product_code | The father_product_code associated with this product does not exist in your pre-existing data. | → Check if the product has a father product in the pre- existing data file using information such as the product's subcategory, brand name, commercial_name elements, etc. → If the product has a father product, enter the correct product_code from the pre-existing data in the 'Father_product_code' field. → If the product does not have a father product, delete the wrong father_product_code that has been entered. |
| Duplicated_code | The product_code of this product is already assigned to a product in your pre-existing data. | → You must assign a new product code to this product, making sure that it does not exist in your 'T+1_data_collection_country_step_4_CORRECTED.csv' file or in your pre-existing data file. |
| Not_paired_with_ year_of_interest | The father product does not belong to the pre-existing data collection year of interest chosen to make comparisons/indicators with T+1 data. This means that this pairing will not be taken into account for making the indicators. | → You must check if the T+1 product cannot be paired with another product in your preexisting data file which has been collected on the year of interest for the category. Please note that the products not paired with the year of interest will not be considered as paired products for the computing of Indicators (the pairing will not be taken into account for this work) |



Excel file to modify after 'Verifications template_step_4' program

<u>Terms that may appear in the 'Problems' field following the 'Verifications</u> <u>template step 4' program, their meaning and what to do</u>

| <u>Problem</u> | <u>Meaning</u> | <u>Action</u> |
|--|--|---|
| Verify_category_name Verify_category_code | The product and its father product have different category names and codes | → You must check that you have classified the product of your T+1 Best-ReMaP collection in the right category. → If the problem is with a product in your pre-existing data that is classified in the wrong category, you must correct the error in your pre-existing data and return the file to us. |
| Verify_subcategory_name Verify_subcategory_code | The product and its father product have different subcategory names and codes | → You must check that you have classified the product of your T+1 Best-ReMaP collection in the right subcategory. → If the problem is with a product in your pre-existing data that is classified in the wrong category, you must correct the error in your pre-existing data and return the file to us. |



WARNING! This is not necessarily an error, the product of the T+1 Best-ReMaP collection may have changed subcategory compared to the pre-existing data. Example: the product has been reformulated and the sugar has been removed, etc

You must still check that you have not made a classification mistake.





Excel file to modify after 'Verifications template_step_4' program

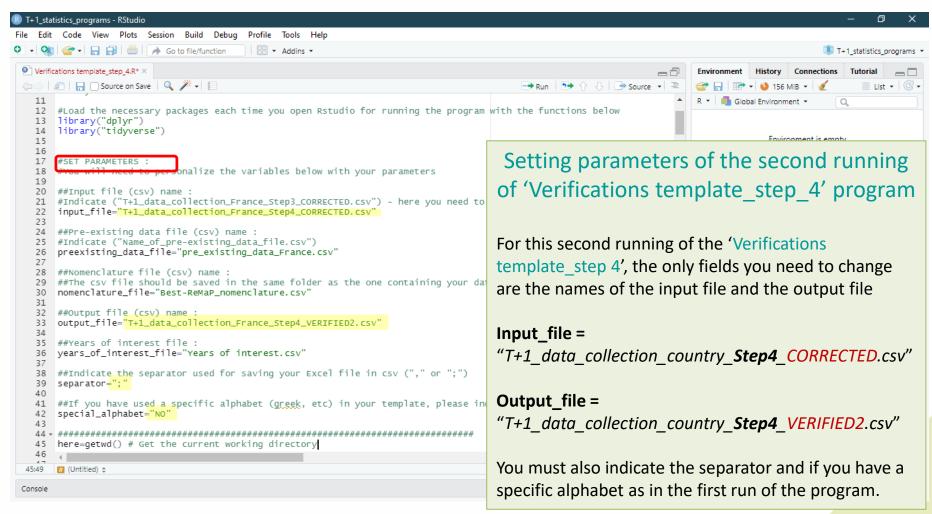
- Be careful! When saving the file, you must be sure that the barcodes appear in full and not in scientific format. If this is the case, you must repeat the procedure on pages 24→28.
- Once the corrections have been made and the barcodes are in the correct format, you can save the file *T+1_data_collection_country_Step3_CORRECTED.csv* and close it.
- You will have to run this corrected file again in the 'Verifications template_step_4' program to make sure you haven't missed a check.

Your Rstudio interface must be cleaned up before running the 'Verifications template_step_4' program again. All cleaning steps are described on <u>pages 62→68</u>.





2nd running of 'Verifications template_step_4' program





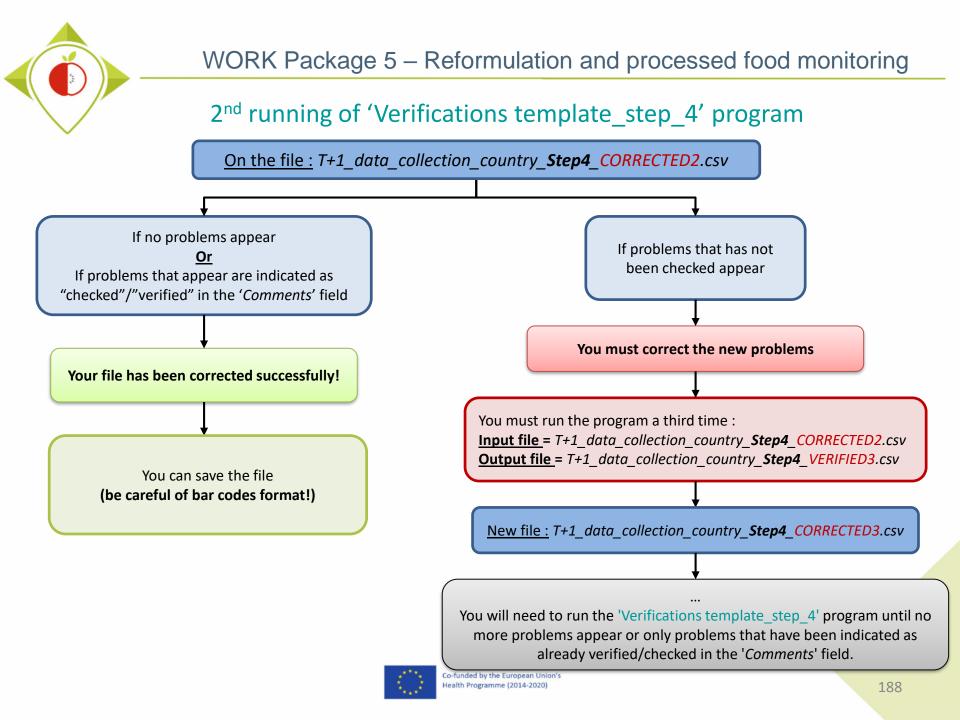


2nd running of 'Verifications template_step_4' program

- At the end of this second run, you get in your "files" folder a file called: "T+1_data_collection_country_Step4_VERIFIED2.csv"
- You must create a copy of this file and call it : "T+1_data_collection_country_Step4_CORRECTED2.csv"

ightarrow It is on this file that you will make the modifications following the checks







End of the 4 verification programs

→ You should now have a file called : T+1_data_collection_country_Step4_CORRECTED(X).csv (X) is the number of the last file exported and corrected after the last run of the second verification program)

This file is the final version of your data collection template after you have done all the checks and corrected all the errors.

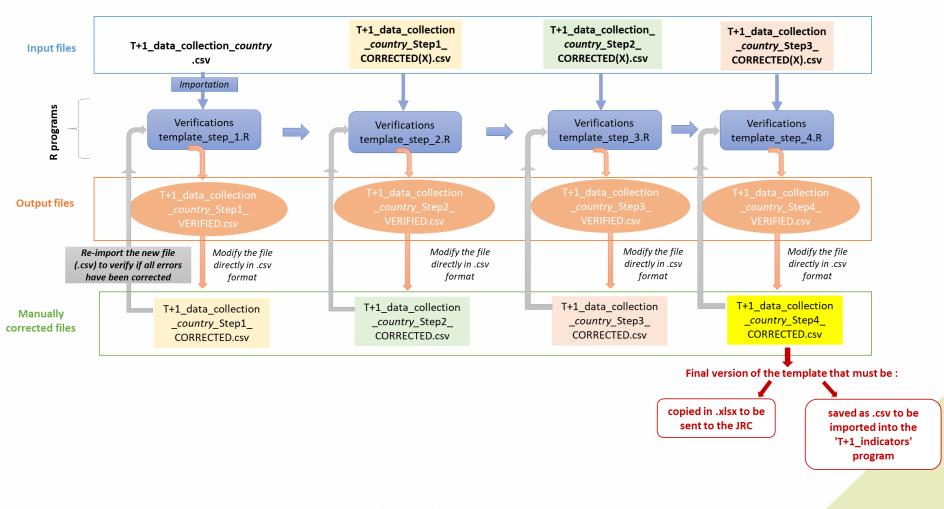
→ You must create a copy of this file and save it in .xlsx format (You can call this file : T+1_data_collection_country_final.xlsx for example)

This copy in **.xlsx format** will be the final version of your data collection template that will be transmitted to the **JRC**.





Summary of the 4 verification programs







4) Next steps





Timeline of the task 5.5.1

| 2022 | | | | | | | | | | | | 2023 | | | | | |
|------------------------|---|---|------------------|------------|------------|---------------------|-----------|---|----------------------|------------|---|--|-----------------------------------|------------|------|-----|-----|
| j | f | m | а | m | j | j | а | S | 0 | n | d | j | f | m | а | m | j |
| M16 | M17 | M18 | M19 | M20 | M21 | M22 | M23 | M24 | M25 | M26 | M27 | M28 | M29 | M30 | M31 | M32 | M33 |
| | Task 5.4.1 : Data collection and data treatment (data entry and encoding) Mar 2022 - Feb 2023 | | | | | | | | | | | | | | | | |
| | Collection Apr 2022 - Jan 2023 of pictures (February 2023 at the latest) Mar 2022 Soft drinks Breakfast cereals Bread products Fresh dairy products meats and similar | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | Production of st Apr 2023 (6 m | | | | |
| | | | | | | | | Verifications steps Nov - Jan 2022 | | | Production of indicators Feb 2023 | Production of the report Mar - Apr 2023 | | | | | |
| | | | | | | | | | | (3 months) | | | (1 month) | (2 months) | | | |
| If you Th indica | u have ar lese de ltions s ize you | d us feedback ny problems b adlines are that you rselves as possible | efore thi can | s date, pl | ease let u | is know s End of | o that we | e can hel tions an | p you — Id correc | ctions to | be mad ed in the | e "indica | tors" file —— ort ready to be | sent to V | V/05 | | |





It is important to finish each step before moving on to the next

- Downloading of the R and Rstudio software and the documents needed for task 5.5.1 (working folder on the intranet) <u>before 1st November 2022</u>. Please give us feedback so that we can help you as much as possible if you have difficulties downloading.
- A next training is planned for <u>24th November 2022</u> to present steps 3 and 4 (production of indicators and report)
- If you have any questions or need help at any time during the completion of the steps in Task 5.3.2, you can contact us at: <u>wp5_bestremap@anses.fr</u>
 We will also be able to hold individual meetings to best assist you during this task.





Healthy Food for a Healthy Future

Thank you for your attention!

ANSES

wp5_bestremap@anses.fr

The Joint Action focusing on the implementation of validated best practices in nutrition – Best-ReMaP

This presentation arises from the Joint Action Best-ReMaP. This JA is addressing the adaption, replication and implementation of effective health interventions, based on practices that have been proven to work in the areas of food reformulation, framing of food marketing and public procurement of healthy food in public settings. This presentation was funded by the European Union's Health Programme (2014-2020). The content of this presentation represents the views of the author only and is his/her sole responsibility; it cannot be considered to reflect the views of the European Commission and/or the Consumers, Health, Agriculture and Food Executive Agency (CHAFEA) or any other body of the European Union. The European Commission and the Agency do not accept any responsibility for use that may be made of the information it contains.