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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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



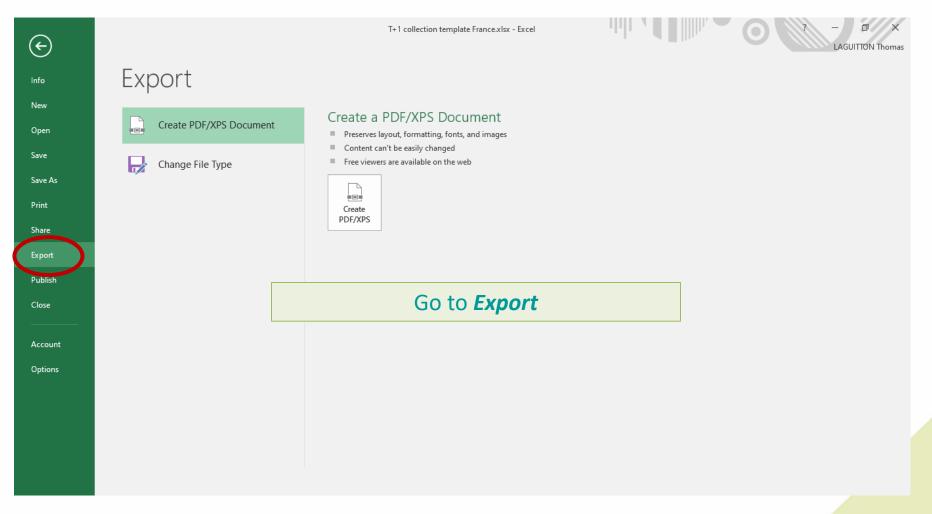


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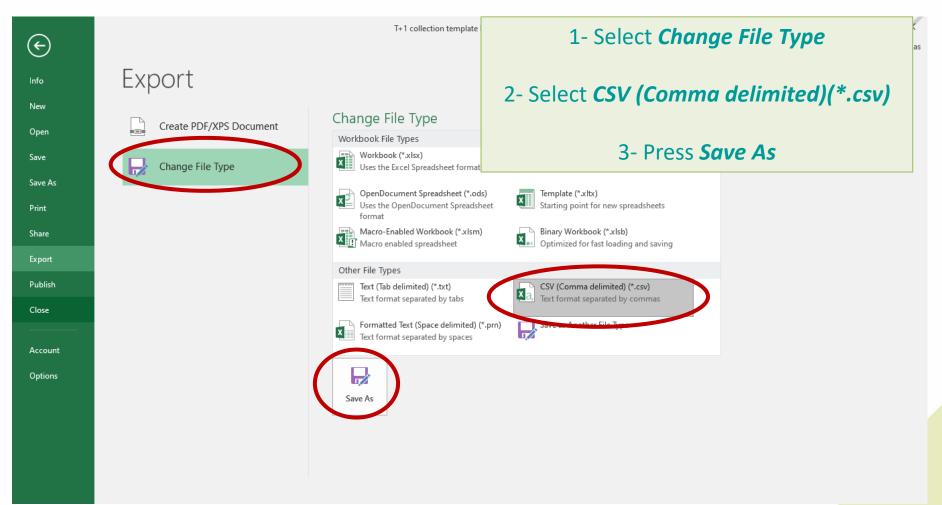
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When you save your *.xlsx* file in *.csv format*, the barcodes in the *.csv file* appear in scientific writing (e.g. 1.89E+12).

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.

(To be read in R, the file must not be opened so you do not need to re-open it)

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



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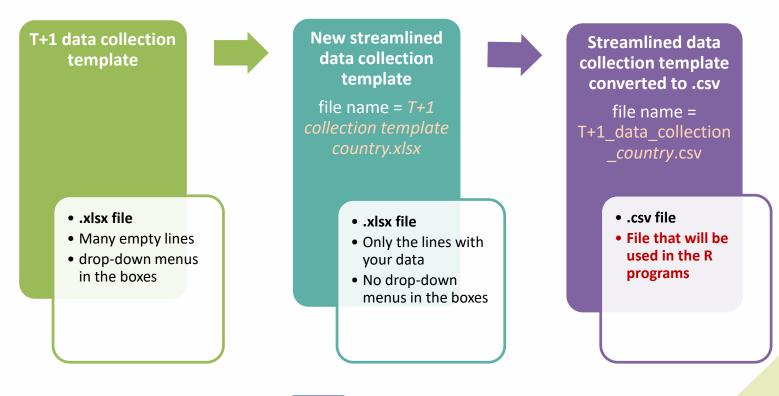
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Your barcodes appear in full, you can save this table by overwriting the previous version and close it.

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

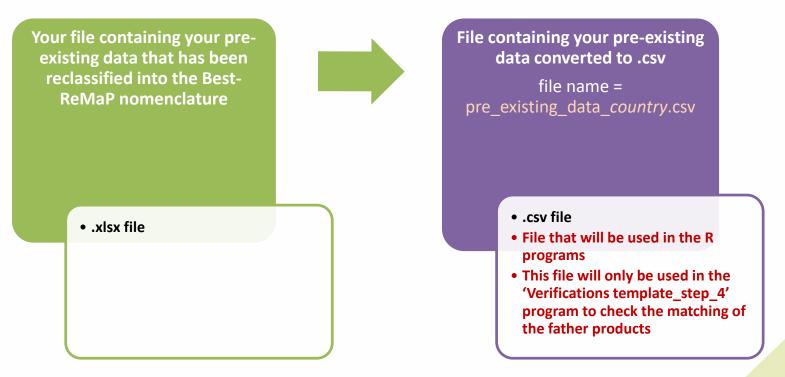
- → You must make a copy of your file containing your pre-existing data that has been reclassified into the Best-ReMaP nomenclature. You must save this copy in .csv format under the name pre_existing_data_country.csv (with the name of your own country)
- \rightarrow You can follow the procedure on **pages** <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>

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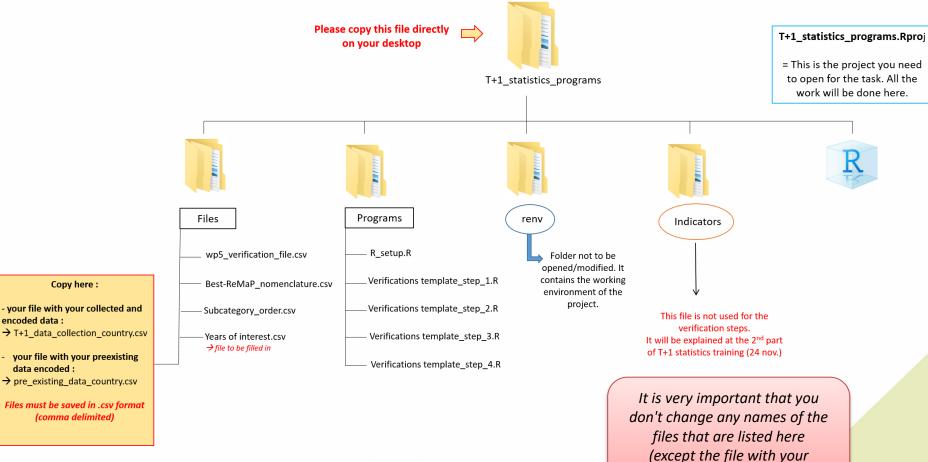
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Preliminary steps

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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Health Programme (2014-2020)



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

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D20 • : × ✓ fx			 Column 'Year_of_interest_1' : you must enter for each category the selected year of interest from your 						
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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"

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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						
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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





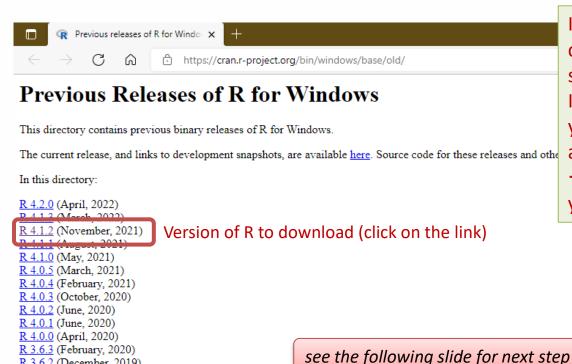
<u>R 3.6.2</u> (December, 2019) <u>R 3.6.1</u> (July, 2019) R 3.6.0 (April, 2019)

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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NEWS R-4 1 2 html	2021-11-01 19:14	105K	Click to download this .exe file.
<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>



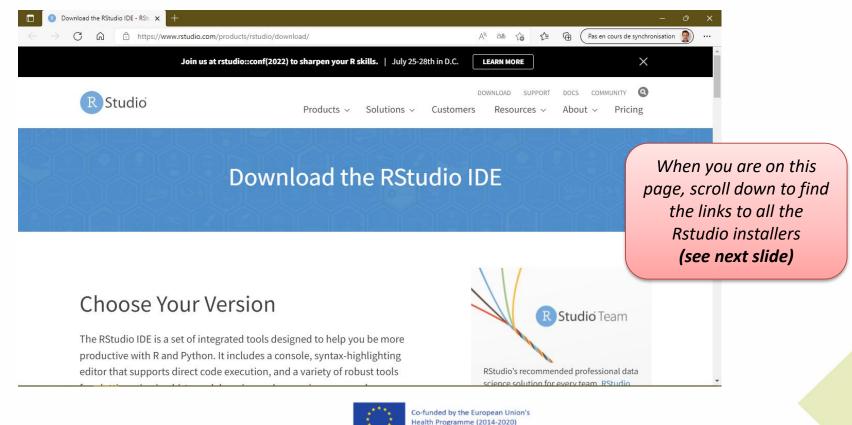


Installation of Rstudio software

• Download the Rstudio software:

Follow this link :

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





Installation of Rstudio software

	B D	ownload	the RStu	udio IDE - RStu 🗙 🕂				٥	\times
\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

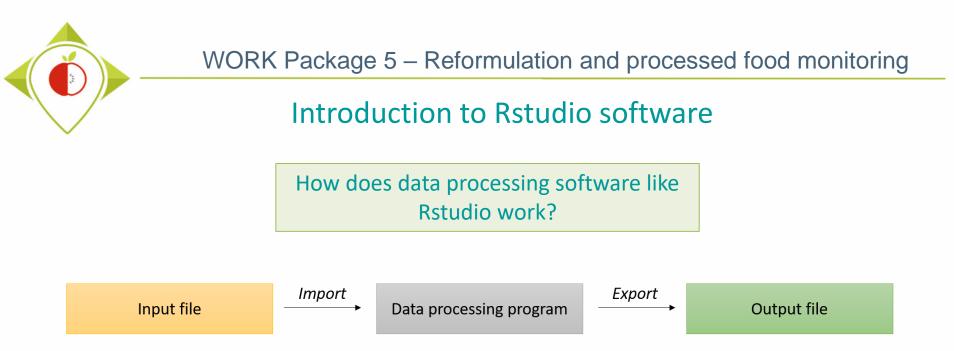
A. Preliminary steps

B. Installation of software

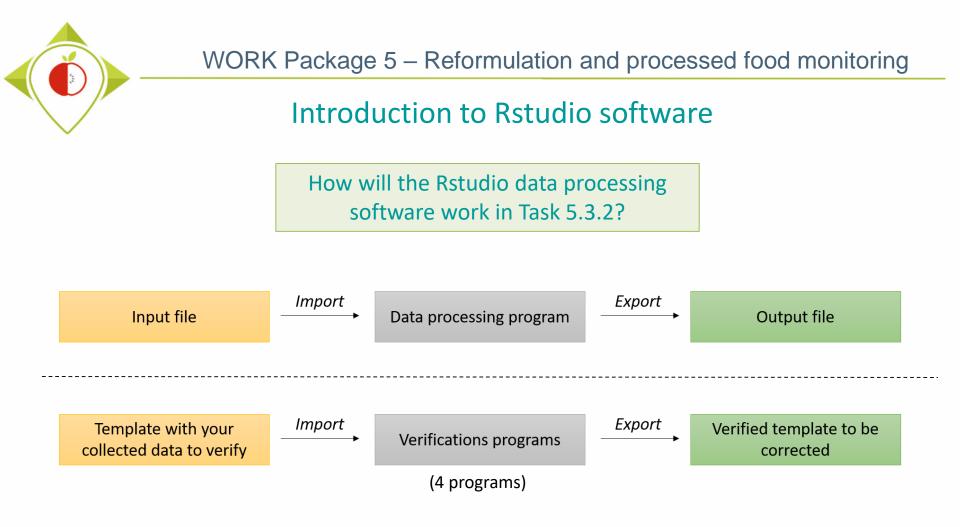
C. Introduction to R studio

D. Cleaning of the Rstudio interface







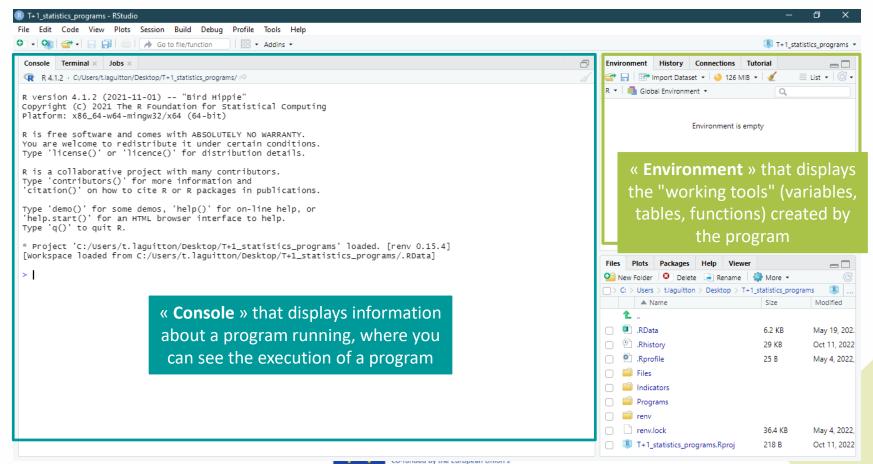






Introduction to Rstudio software

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







Introduction to Rstudio software

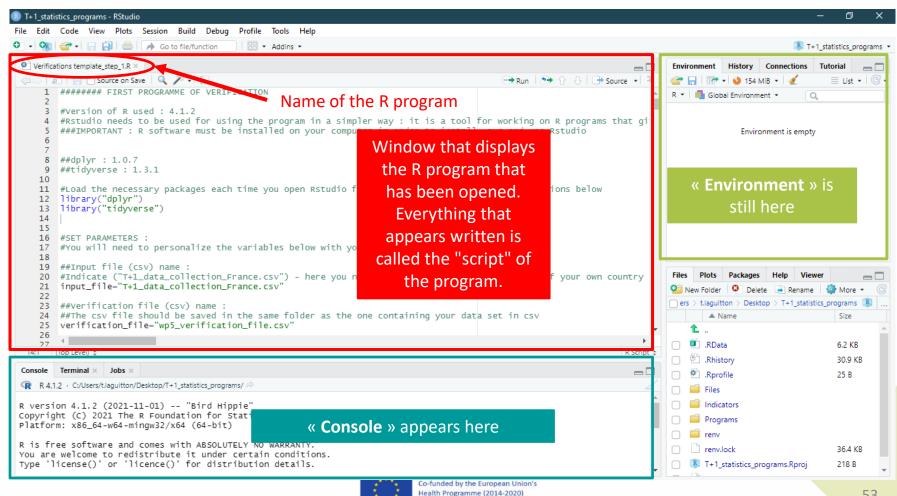
How to open a program in Rstudio

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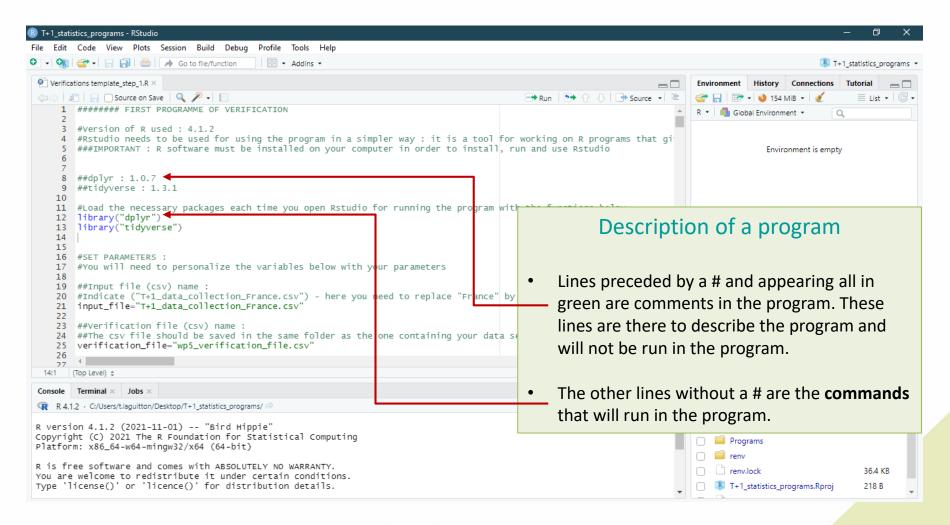
Introduction to Rstudio software

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		
19 ##reput file (c. You can modify directly in the script and proce	-	Files Plots Packages Help Viewer	
21 input file="T+1	e of your own country		📥 🗖
the save button to save the modifications to		ers > t.laguitton > Desktop > T+1_statistics_	
23 ##verification f 24 ##The csv files the script.	v	▲ Name	Size
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Co-funded by the European Union's Health Programme (2014-2020)



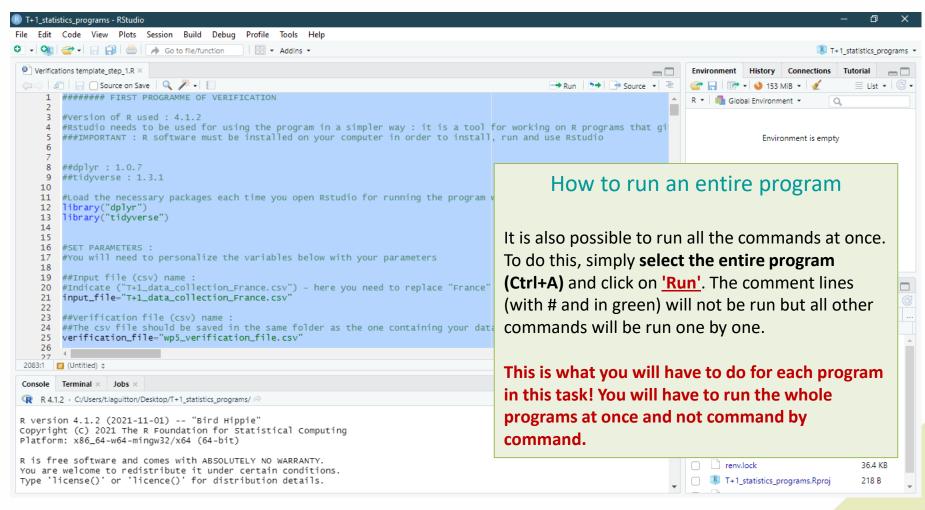
Introduction to Rstudio software

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1 ####### FIRST PROGRAMME OF VERIFICATION 2	R 🗸 📑 Global Environment 🗸 🔍
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>
onsole Terminal × Jobs ×	
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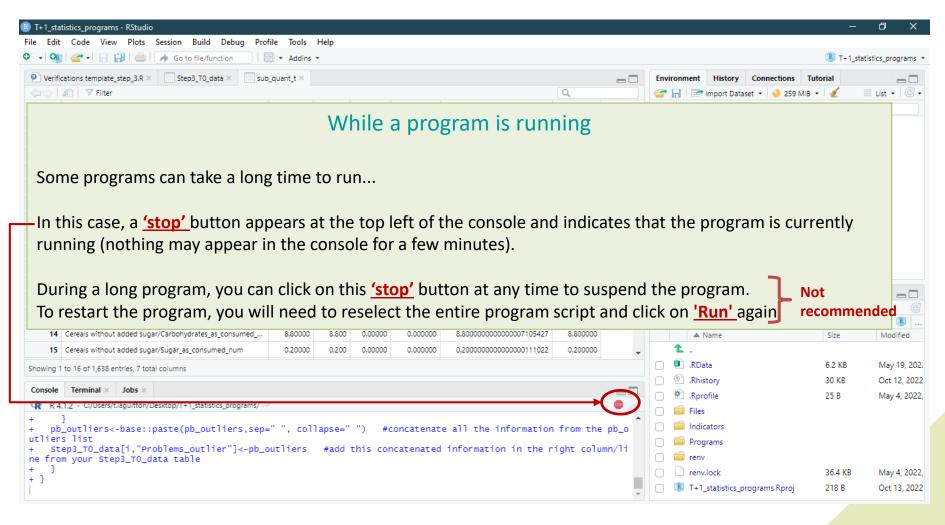
Introduction to Rstudio software







Introduction to Rstudio software

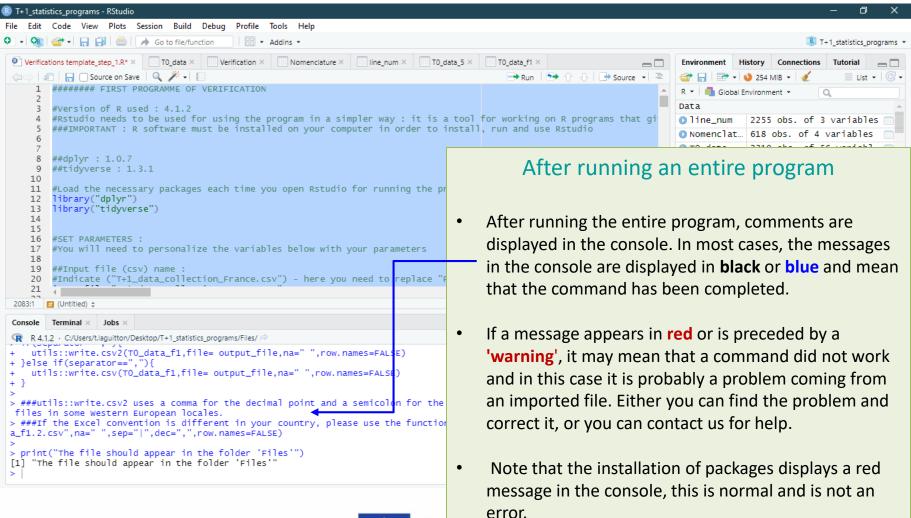




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Introduction to Rstudio software

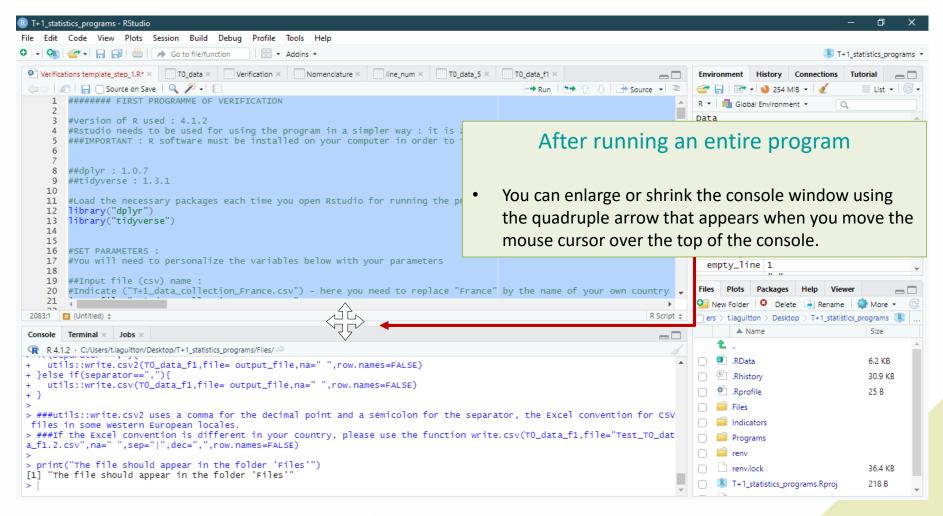




Health Programme (2014-2020)



Introduction to Rstudio software

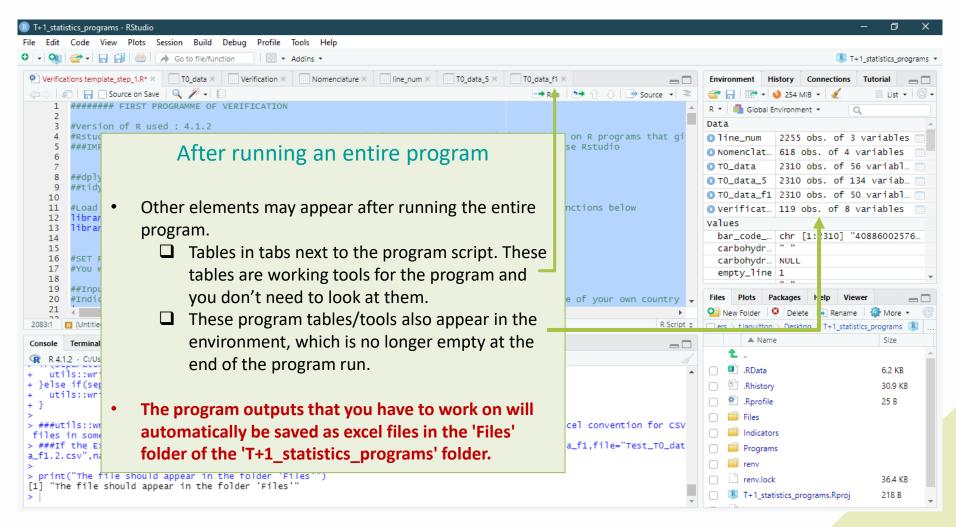




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Introduction to Rstudio software







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





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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)				
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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					
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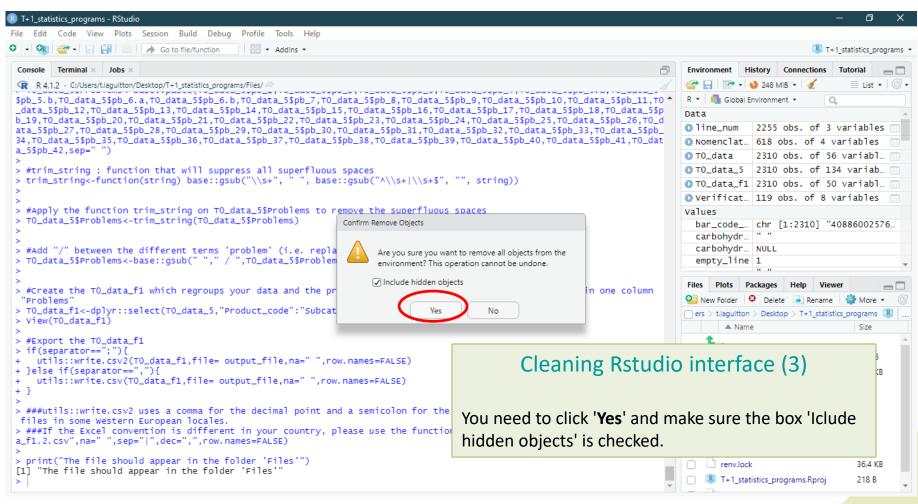




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<pre>> #Add "/" between the different terms 'problem' (i.e. replace the spaces by /) > T0_data_5\$Problems<-base::gsub(" "," / ",T0_data_5\$Problems) > #Create the T0_data_f1 which regroups your data and the problems that needs to clean the problems" > 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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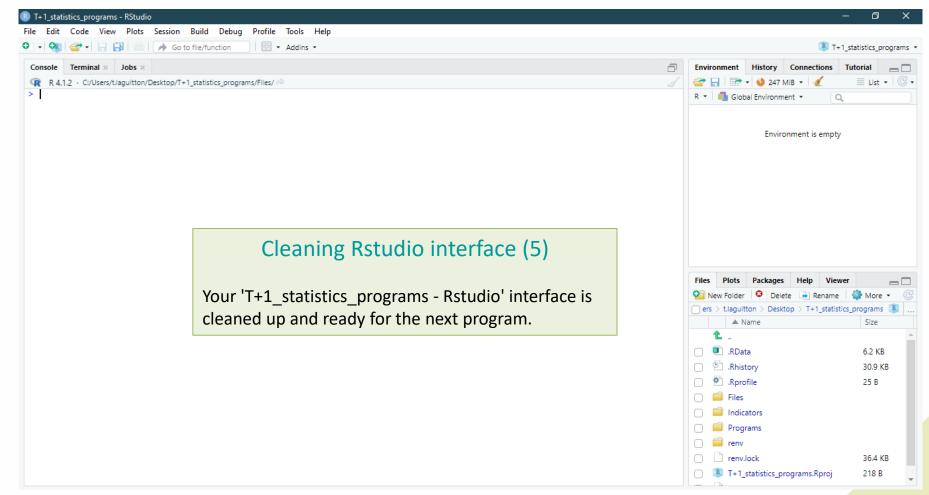




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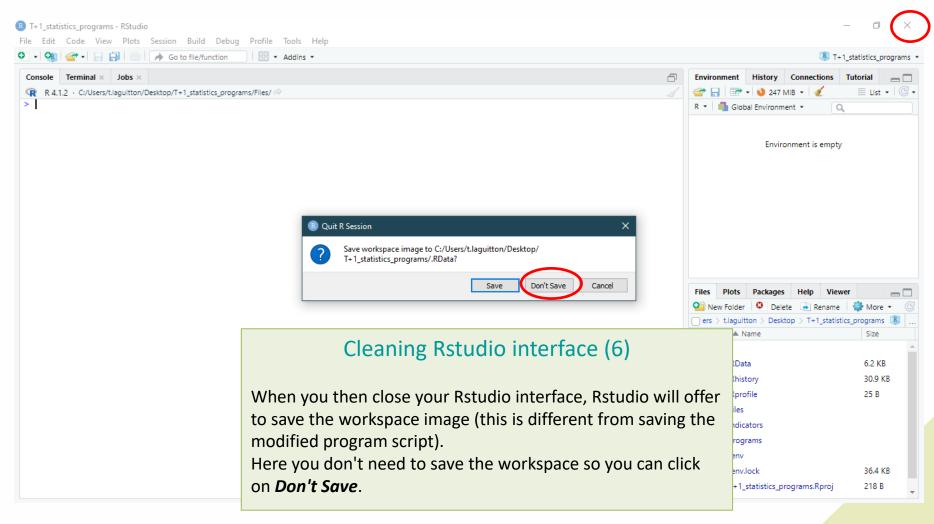
















3) Running of the programs

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)

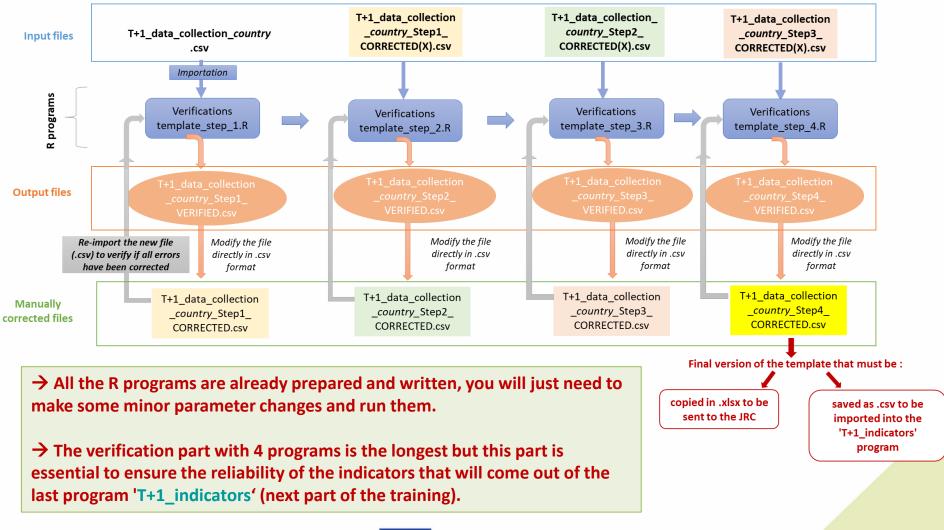
ii. 2nd verification program : 'Verifications template_step_2' (page 119)

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

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



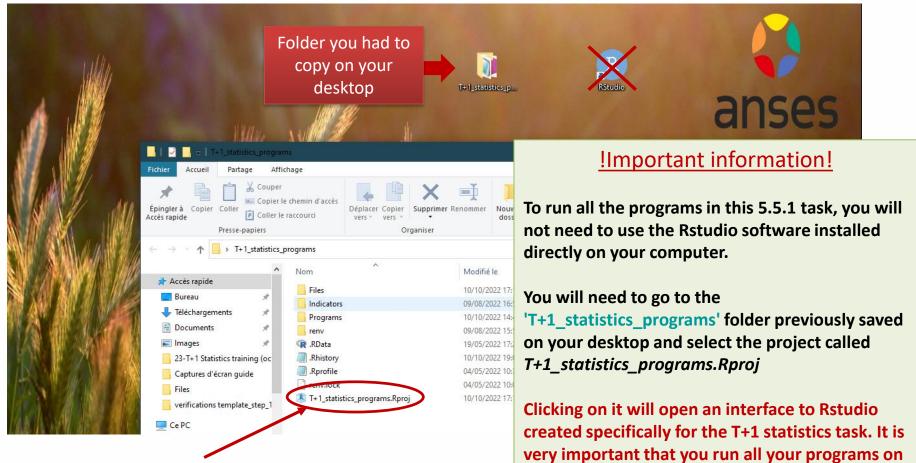
Description of the different 'R' programs







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

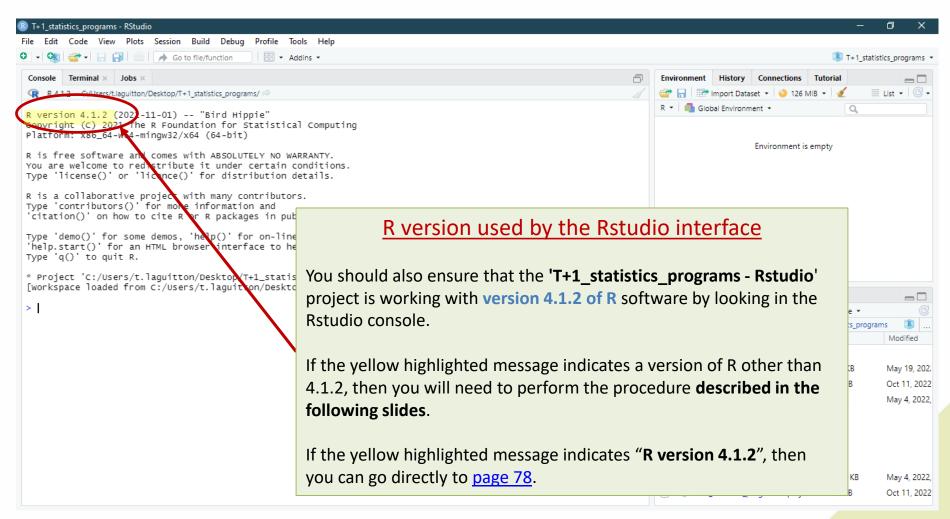
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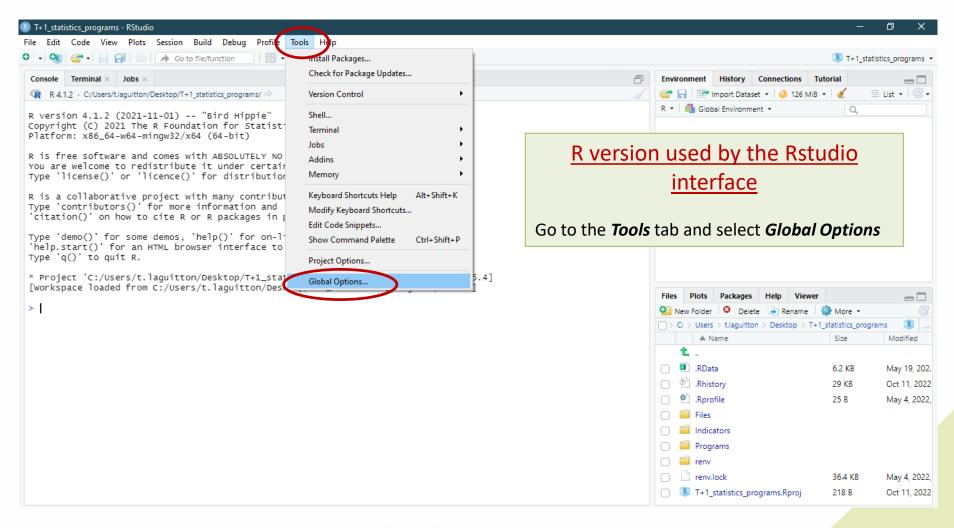
Rstudio interface to use







Rstudio interface to use

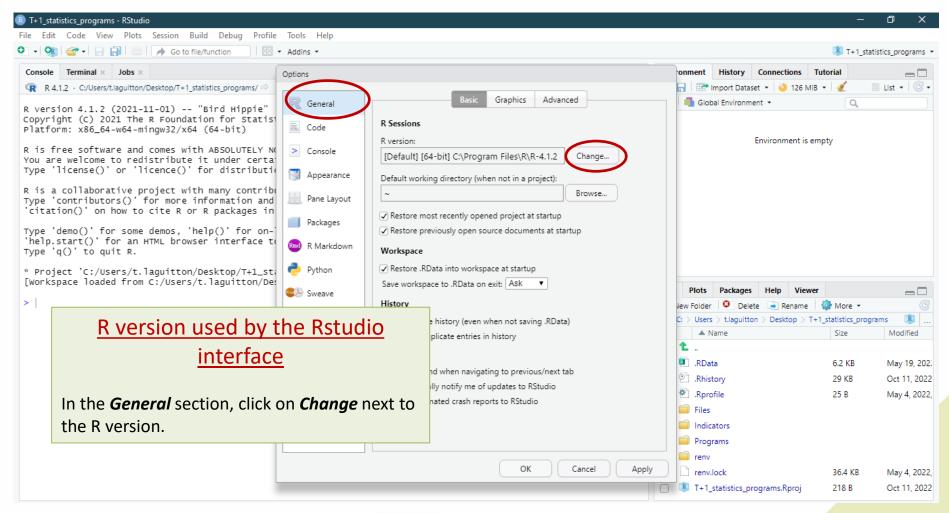




Co-funded by the European Union's Health Programme (2014-2020)



Rstudio interface to use



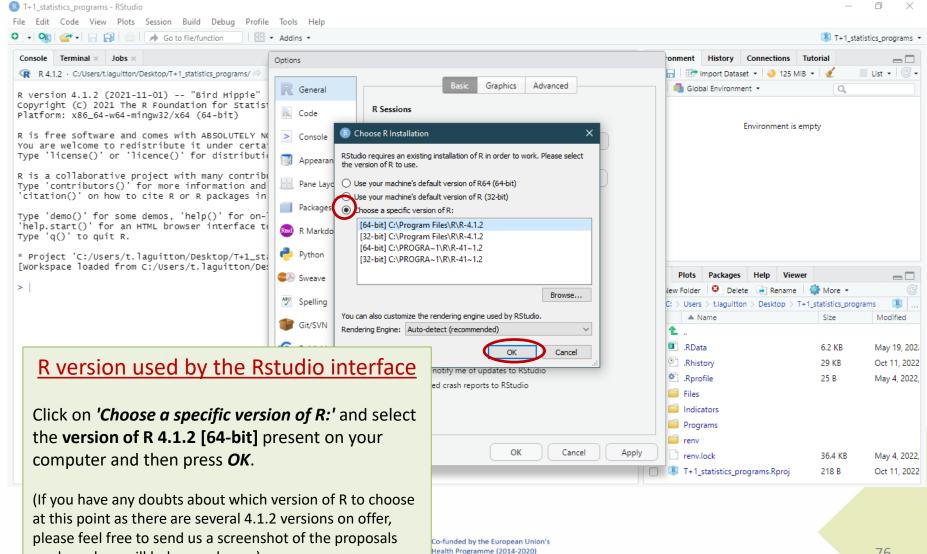




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WORK Package 5 – Reformulation and processed food monitoring

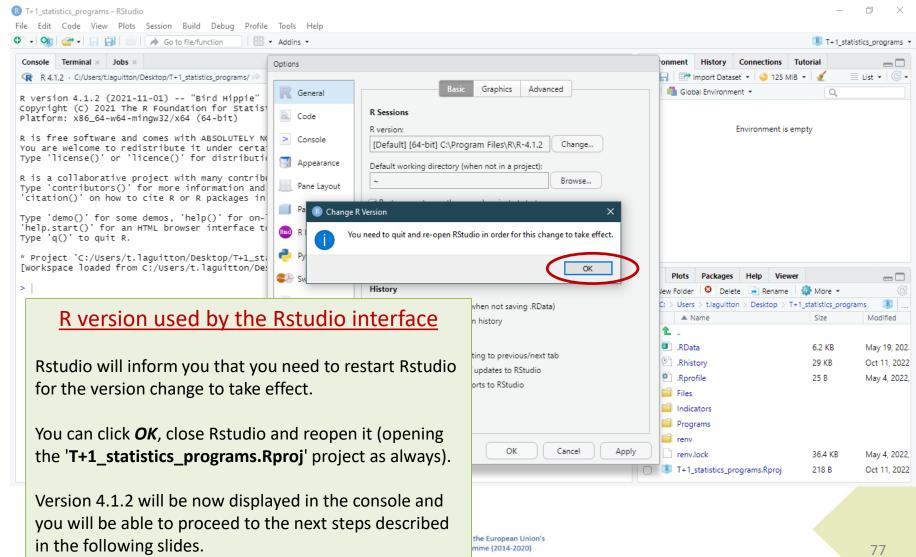
Rstudio interface to use



76



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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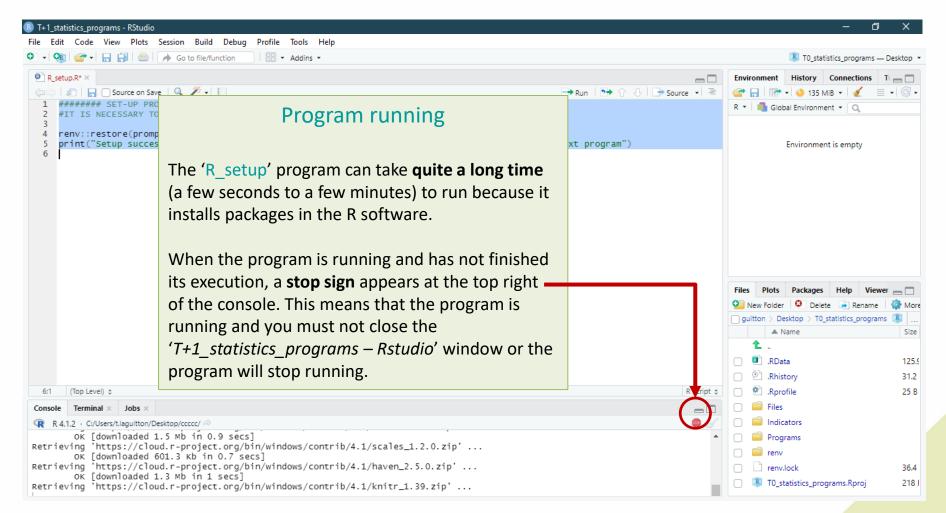


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Running the 'R_setup' program





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



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'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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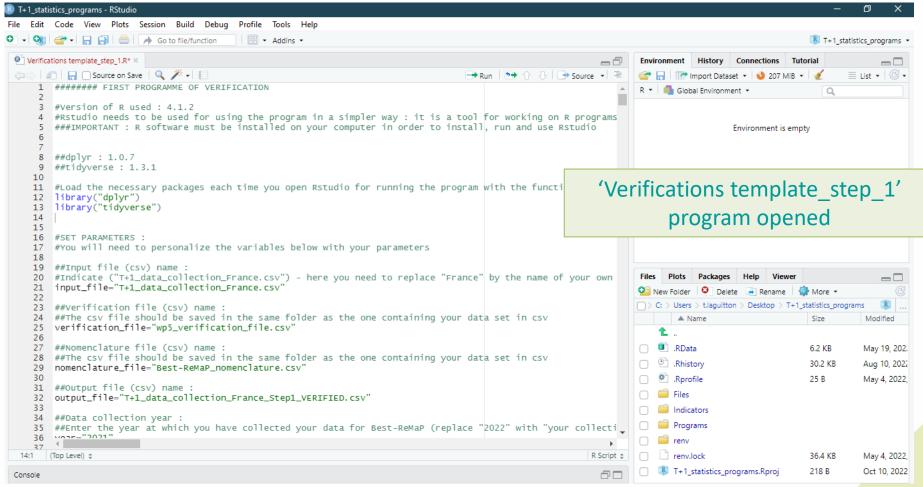




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Running of 'Verifications template_step_1' program

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		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) 💠
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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"



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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.			
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Excel file to modify after 'Verifications template_step_1' program

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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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BH1982 ▼ : × ✓ f _x				

 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.

Ready

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Commen	t Category	Subcatego	bar_code_starts_0	Problems
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	9	648		
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	9	648		bar_code_length_or_empty
	9	648		
	9		Yes	bar_code_length_or_empty
	9	646		
	9	669		
	9	669		
	9	668		
	9	646		
	9			
	9		Yes	bar_code_chr
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	9			
	9			
	9			





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

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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
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48	<pre>#hore-actwd() # Cot the current working directory</pre>	i i i renv
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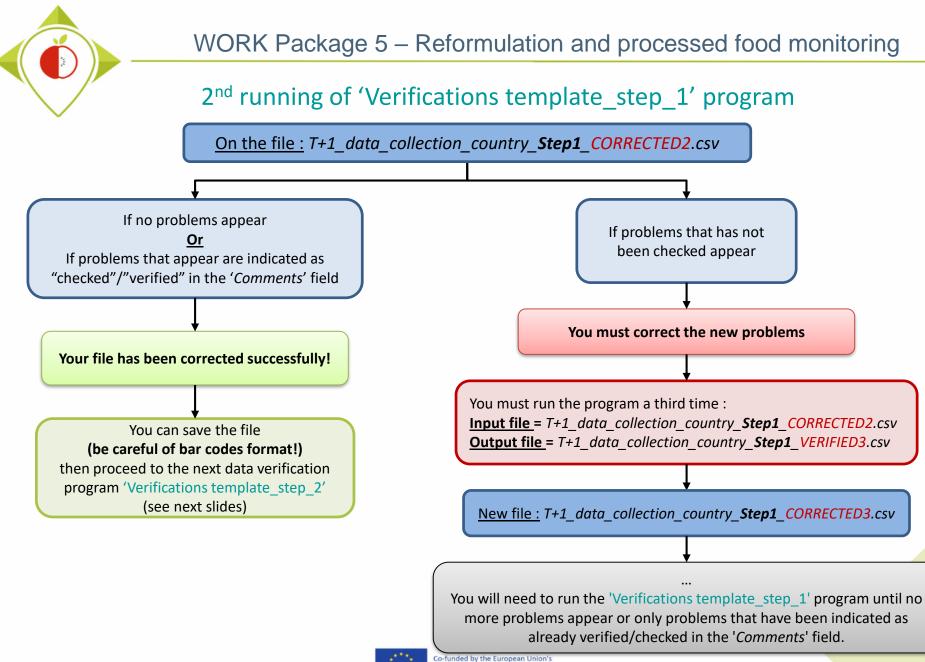


2nd running of 'Verifications template_step_1' program

- 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.

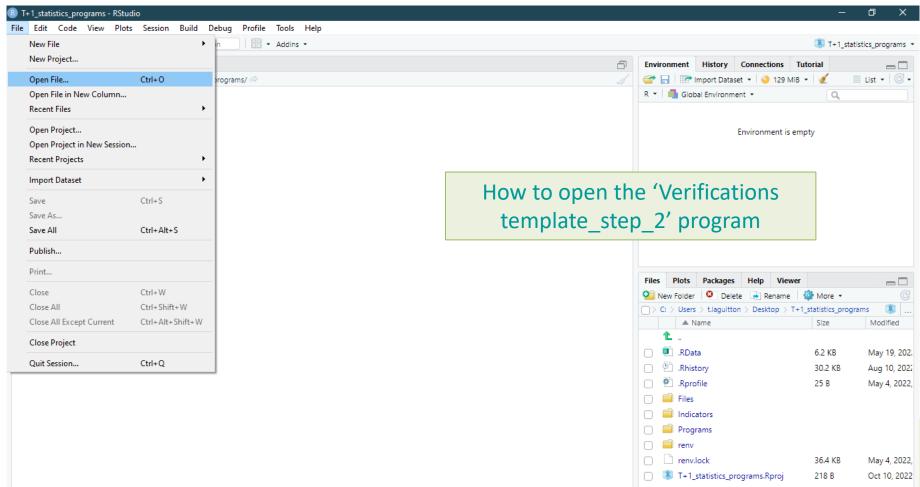
Requirements before starting the program 'Verifications template_step_2':

- 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>#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 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 # ** *********************************</pre>	Environment is empty erifications template_step_ program opened
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22 #Indicate ("TO_data_collection_France_Step1_CORRECTED.csv") - here you need to replace "France" by the na	🞱 New Folder 🛛 Delete 📑 Rename 🏼 🍪 More 👻
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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Verifications template_step_2.R ×	program
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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"





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	ations template_step_2.R ×		Envir	ronment History Cor	nnections Tuto		_
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2	#Version of R used : 4.1.2						
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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]	
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9	##dplyr : 1.0.7	ind nress	s 'R	Run' (or Cl	trl+Fnt	ter)	
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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
Ce PC				\rightarrow You need to create a copy of this file
Bureau				and rename it "T+1 data collection
Documents				country Step2 CORRECTED.csv"
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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

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<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.



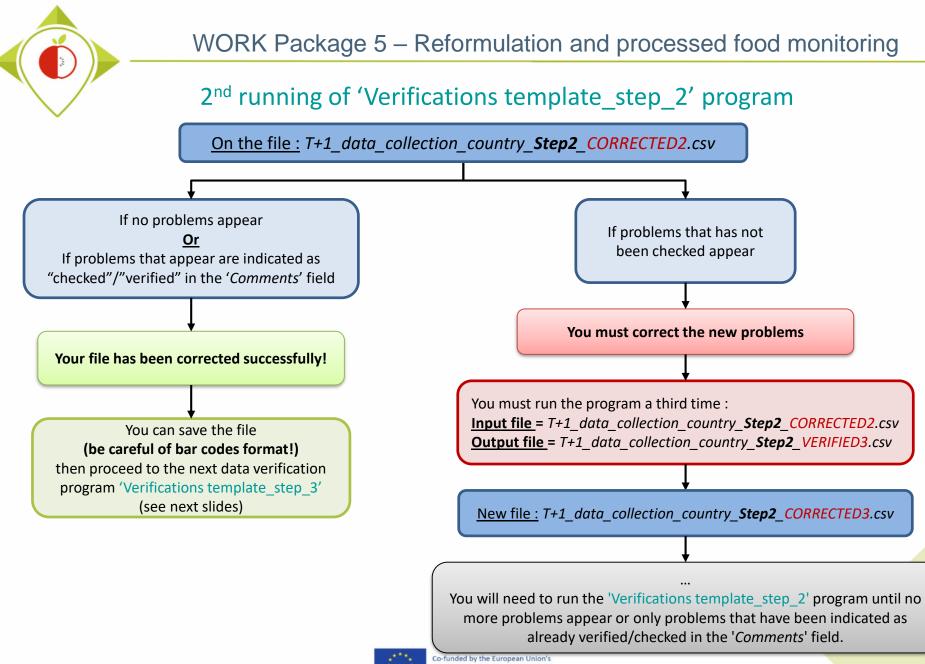


2nd running of 'Verifications template_step_2' program

- 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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						renv.lock	36.4 KB	Mar. 4, 2022
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						T+1_statistics_programs.Rproj	218 B	Oct 10, 2022





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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	
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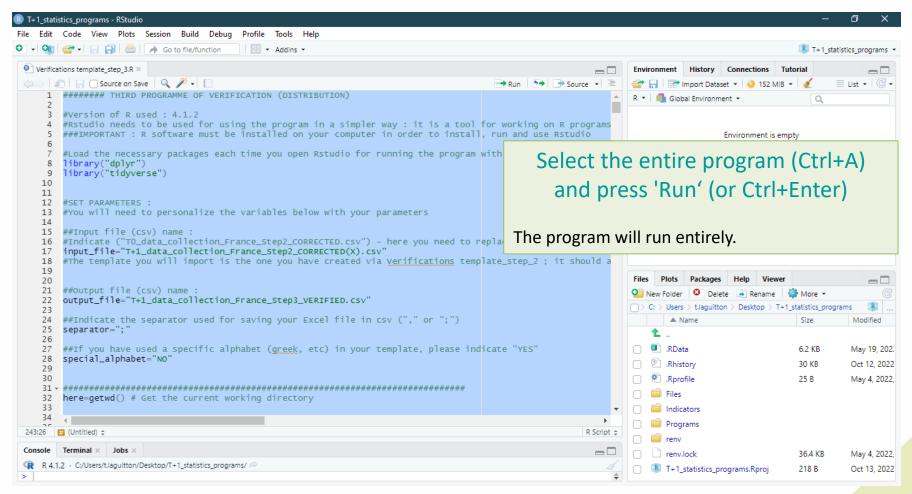




B T+1_statistics_programs - RStudio File Edit Code View Plots Session Build Debug Profile Tools Help	– 0 X
I • I · · · · · · · · · · · · · · · · ·	The statistic second as
<pre> Verifications template_step_3.R × Source on Save Source on Save Source on Save Verifications (DISTRIBUTION) ######### THIRD 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"











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- 0) 🕣 • 🕞	😭 🧁 🌈 Go to file/function										🔋 T+1	statistics_programs		
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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.								
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+	}				$\mathbf{\nabla}_{\mathbf{A}}$	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							
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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	
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>	ne fire shourd appear in the folder F	ries					"T+1 statistics programs" folder.	8, 2022





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🔜 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
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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
verifications template_step_1	T+1_data_collection_France_Step2_VERIFIED.csv	12/10/2022 16:46	Fichier CSV Micro	
verifications template_step_3	T+1_data_collection_France_Step3_CORRECTED.csv	13/10/2022 10:27	Fichier CSV Micro	exported by the 3 rd verification progra
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Ce PC	🔹 Years of interest.csv	03/10/2022 17:27	Fichier CSV Micro	Step3_VERIFIED.csv
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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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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	
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<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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<pre>##studio 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 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 #Setting parameters of the secon of 'Verifications template_step_ for this second running of the 'Verification template_step 3', the only fields you need are the names of the input file and the o ##Output_file="T+1_data_collection_France_Step3_VERIFIED2.csv" ##Indicate the separator used for saving your Excel file in csv ("," or ";") separator=";" ##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, etc) in your templ</pre>	Q,
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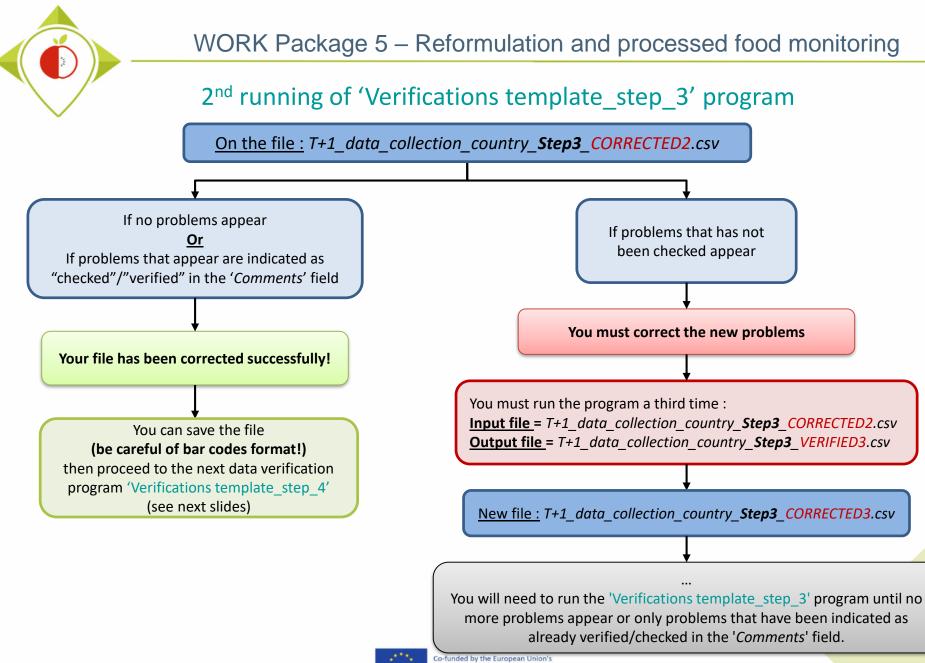


2nd running of 'Verifications template_step_3' program

- 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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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"





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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 👻	
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_Step3_CORRECTED.csv") - here you need to replace "Franc input_file="T+1_data_collection_France_Step3_CORRECTED(X).csv"</pre>	ce" by the na	New Folder	Oelete Rename > t.laguitton > Desktop > T+1	More • 1_statistics_program	ams 🕼
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Category_cod	e [‡] Category_name	Year_of_interest_1	Year_of_interest_2	R 💌 💼 Global Environment 💌 🔘	
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
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Sastmp sur sas-pp-calc1 (U:)					



Running of 'Verifications template_step_4' program

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"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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Excel file to modify after 'Verifications template_step_4' program

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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

<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

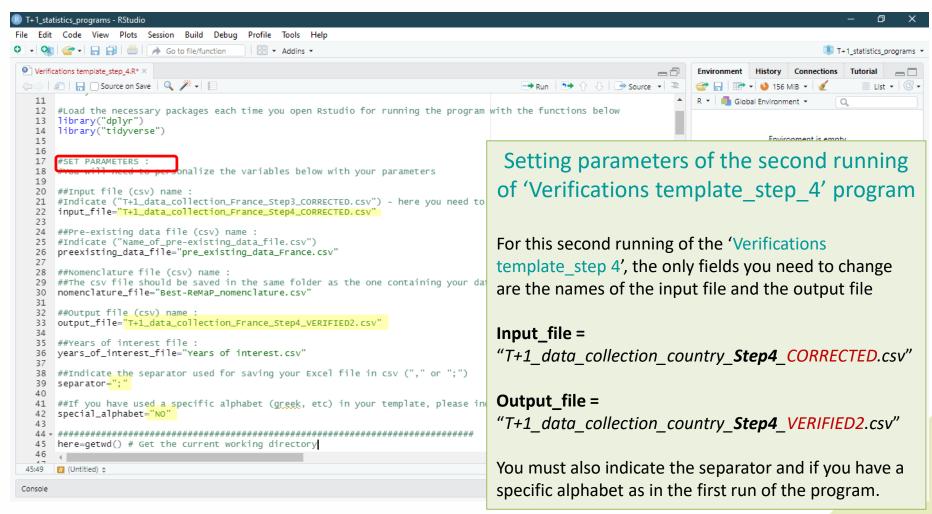
- Be careful! When saving the file, you must be sure that the barcodes appear in full and not in scientific format. If this is the case, you must repeat the procedure on pages 24→28.
- Once the corrections have been made and the barcodes are in the correct format, you can save the file *T+1_data_collection_country_Step3_CORRECTED.csv* 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





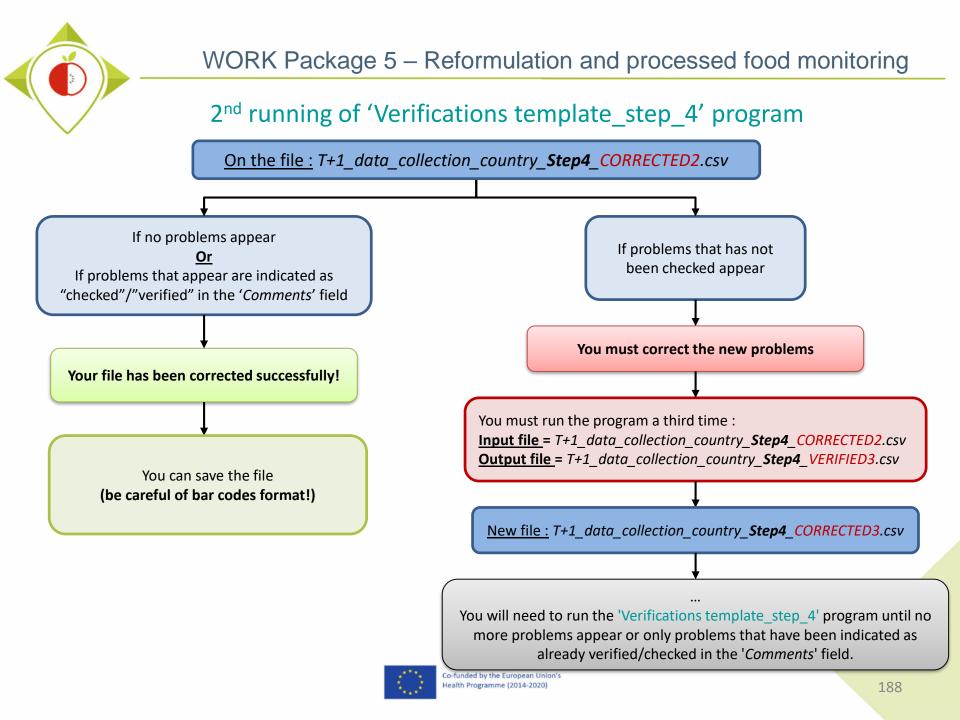


2nd running of 'Verifications template_step_4' program

- 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.

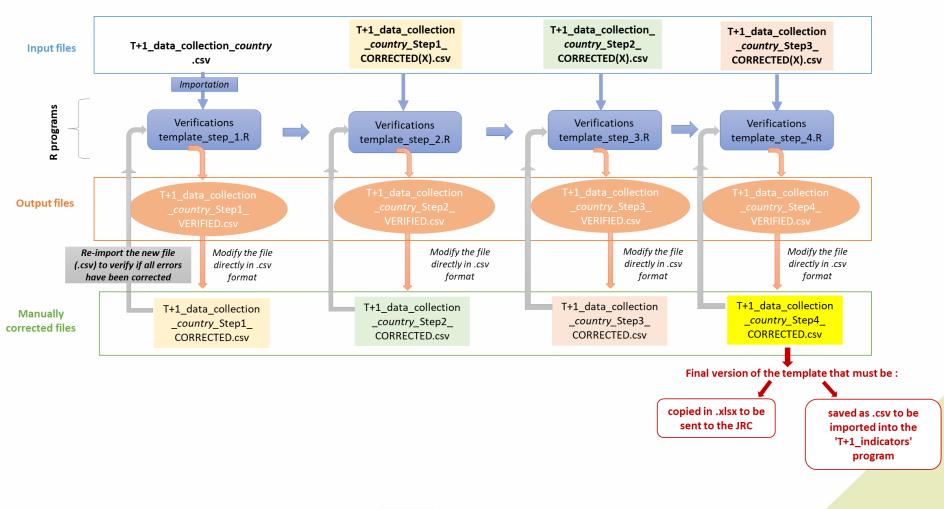
→ You must create a copy of this file and save it in .xlsx format (You can call this file : T+1_data_collection_country_final.xlsx for example)

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.