Best-ReMaP

Healthy Food for a Healthy Future

WP 5 – REFORMULATION AND PROCESSED FOOD MONITORING

T0 Statistics methodology (task 5.3.2)

Anses

19.05.2022



Rules for the meeting

Mute your microphone

Switch off your camera

Use the chat if you have comments or questions

Use the chat if you want to speak

Give your name and your country before speaking





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- B. Installation of software (page 32)
- C. Introduction to R studio (page 41)
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1) Introduction of task 5.3.2





Task 5.3.2 : Production of statistics for the TO



- → Partners involved in the first European Snapshot (T0) will have to produce statistics/indicators by Best-ReMaP categories and subcategories of product collected during the T0
- → Each partners will have to produce a report that will be included in the WP5 deliverable (D5.3)
- → Some of these statistics will be presented at the final WP5 workshop of restitution with stakholders (task 5.2.5)





Timeline of the task 5.3.2

2021								2022											
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It is important to finish each step before moving on to the next

- The data entry and encoding of the collected data must be fully completed before starting the steps of task 5.3.2
- **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 4 will not be detailed in this training but you will receive all the elements later so that everyone can produce a report on the analysis of his collected data





Equipment needed

TO collection template : template that you filled in according to the WP5 methodology **Tools you** during your T0 data collection and with data for the 5 priority food categories. already have Pictures of the products that you have collected for your T0 data collection **Tools you will** have to R, Rstudio : Free statistical software that you will use to check and correct the data download entered in your template and to perform indicators/statistics on your data (explanation slides ?) 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). WP5 verification file: file that you will have to download and save in .csv format as it will be used in the R program. This file does **not have to be filled in or modified**, it is a support document for R programs but it must be available on your computer.

The **WP5 R programs** and **WP5 verification file** 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/entityType/folderEntry/action/view_permalink/entryId/74848/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 30-31)





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

A. Preliminary steps (page 10)

B. Installation of software (page 32)

C. Introduction to R studio (page 41)

D. Cleaning of the Rstudio interface (page 55)





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 T0 collection template (page 12)

2nd preliminary step : creation of the working folder (page 30)





1st preliminary step : preparation of the T0 collection template

- → You must ensure that your TO collection template is a single file with a single tab for all data collected during TO (the 5 food categories in the same tab).
- → Verifications/treatments on the data will only start once the template has been filled in completely (when all products of the data collection have been entered in the template).
- → As your T0 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





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Preliminary steps

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



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1st preliminary step : preparation of the T0 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 **T0 collection template** *country*.xlsx (with the name of your own country) for example.

→ You must make a copy of this file (T0 collection template *country*.xlsx) and save it in .csv format under the name T0_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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3	302		Poland	202:			^	No	Ehrmann Almighu	rt
4	303		Poland	202:	The selected file type does not support	workbooks that contain multiple sheets.		'es	Deluxe	
5	304		Poland	202:	. To save apply the active sheet slick OK			'es	SÖBBEKE Pauls Bi	omolkerei
6	305		Poland	202:	 To save only the active sheet, click OK. To save all sheets, save them individua 	Ibuilding a unrecentifile name for each, or choose a file type that sup	ports multiple sheets.	'es	Gildo Rachelli	
7	306		Poland	202:	C			'es	Weißenhorner Mi	ilch Manufal
8	307		Poland	202:		OK		ſes	Sojade	
9	308		Poland	2021	Fresh_dairy_products_and_desserts	Fresh desserts with cereals	1234567891011	Yes	SÖBBEKE Pauls Bi	omolkerei
10	309		Poland	2021	Fresh_dairy_products_and_desserts	Dessert creams and jellied milks	1234567891011	No	SÖBBEKE Pauls Bi	omolkerei
11	310		Poland	2021	Soft_drinks	Sugar-swetened energy drinks	1234567891011	No	28 Black	
12	311		Poland	2021			011	No	Active O2	
13	312		Poland	2021		Press OK	011	No	all i need.	
14	313		Poland	2021	_	· · · · · · · · · · · · · · · · · · ·	011	No	Arizona	
15	314		Poland	2021	Soft_drinks	Sugar-sweetened colas	1234567891011	No	Black Jack	
16	315		Poland	2021	Soft_drinks	Sugar-sweetened fruit beverages	1234567891011	No	Capri-Sun	
17	316		Poland	2021	Soft_drinks	Colas without added sugar	1234567891011	No	Clever	
18	317		Poland	2021	Soft_drinks	Fruit beverages with fruit content > or = 50%	1234567891011	No	Curing Shot	
19	318		Poland	2021	Soft drinks	Flavoured waters without added sugar	1234567891011	No	Waterdrop	
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7	306			Poland	2021	Fresh_dair			Yes	lo l	Help		-	234567891011	. Yes		Weißenhorner Mi	lch Manufa	1
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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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43	342		Poland	2021	Delicatessen me	Pâté	3.56E+12	No	Reflets de Fr	ance	
44	343		Poland	2021	Delicatessen me	Pâté	3.25E+12	No	Reflets de Fr	ance	
45	343		Poland	2021	Delicatessen me	Dry sausage	5.41E+12	No	Marcassou		
46	345		Poland	2021	Fresh dairy prod	Classic plain fresh o	5,4E+12	No	Carrefour		
47	346		Poland	2021	Fresh dairy prod	Artificially-sweeter	20916626	No	Milbona		
48	347		Poland	2021	Fresh dairy prod	Dessert creams and	3,56E+12	No	Carrefour bio	0	
49	348		Poland	2021	Fresh dairy prod	Dessert creams and	3,03E+12	No	Danone	Danone	
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51	350		Poland	2021	Breakfast cereal	Sweet cereal flakes	27051832	No	Goldenbridg	e	
52	351		Poland	2021	Delicatessen me	Sausages	20773090	No	Lidl		
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63	362		Poland	2021	Delicatessen me	Päté	5,4E+12	No	Carrefour		
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b5	364		Poland	2021	Bread products	Other rusks	6,12E+11	NO	Nairns		
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b/	366		Poland	2021	Bread products	wnolemeal_cereal	7,31E+12	NO	Krisprolls		
68	367		Poland	2021	Soft drinks	Flavoured milk bev	3,43E+12	NO	Lactel		
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41	340		Poland	2021	Delicatessen me	e Dried, smoked	orc	20426156	No	SaintAlby	
42	341		Poland	2021	Breakfast cereal	Filled cereals		3560071013226	No	carrefour	
43	342		Poland	2021	Delicatessen me	Pâté		3560070976140	No	Reflets de Fra	ance
44	343		Poland	2021	Delicatessen me	e Pâté		3245390135445	No	Reflets de Fra	ance
45	343		Poland	2021	Delicatessen me	Dry sausage		5410916000042	No	Marcassou	
46	345		Poland	2021	Fresh dairy prod	Classic plain fr	esh d	5400101000766	No	Carretour	
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49	348		Poland	2021	Fresh dairy prod	Dessert cream	s and	3033490143589	No	Danone	Danone
50	349		Poland	2021	Fresh dairy prod	ILFresh sweeten	iea s	5411188119586	NO	Alpro	
51	350		Poland	2021	Breakfast cereal	Sweet cereal f	lakes	2/051832	NO	Goldenbridge	2
52	351		Poland	2021	Delicatessen me	e Sausages		20773090	NO	Liai	
53	352		Poland	2021	Delicatessen me	2 Sausages		27013144	No	Panda	
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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 T0 collection template



Summary of the manipulations in the 1st preliminary step





2nd preliminary step : creation of the working folder

T0 statistics programs (training) × +	∨ – Ø X
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Health Programme (2014-2020)



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/



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. → You will have **2 versions of R** on

your computer.

see the following slide for next step





Installation of R software

• Download the R software:

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

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

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<u>Name</u>	Last modified	Size Description	L
Parent Directory NEWS R-4 1 2 html R-4.1.2-win.exe README.R-4.1.2 SVN-REVISION.R-4. md5sum.txt release.html	2021-11-01 19:14 2021-11-01 20:30 2021-11-01 19:14 1.2 2021-11-01 19:14 2021-11-01 20:30 2021-11-01 19:14	4 105K 9 86M 4 8.5K 4 46 9 50 4 90	Click to download this .exe file. Once you have downloaded this file, you can open it and click o The R software will then be installed on your computer.
rw-FAQ.html	2021-11-01 19:14	99K	During the software installation, accept all the





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 https://portal.nijz.si/ssf/a/c/p_name/ss_forum/p_action/1/entityType/folderEntry/action/view_permalink/entryId/74767/novl_url/1





Installation of Rstudio software

• Download the Rstudio software:

Follow this link :

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




Installation of Rstudio software

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\leftarrow	\rightarrow	С	ഹ	🖯 https:	//www.rstudio.com/products/rstudio/download/	A	ට්න්	το	₹⁄≡	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+	L RStudio-2022.02.2-485.dmg	217.09 MB	cda82e98
Ubuntu 18+/Debian 10+	🛓 rstud/0-2022.02.2-485-amd64.deb	128.58 MB	508a6e9c
Fedora 19/Red Hat 7	🛓 vitudio-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/74768/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

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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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Type 'demo()' for some demos 'belo	()' for on-line helm	or 🦳 📁 Files		
'help.start()' for an HTML browser	interface to help.			
Type 'q()' to quit R.		🗌 🧰 Programs		
* Project 'C:/Users/t.laguitton/Des	ktop/T0_statistics_pr	ograms' loaded. [renv 0.15.4]		
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Introduction to Rstudio software

Rstudio when a program is opened





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1 ####### FIRST PROGRAMME OF VERIFICATION	🔺 R 💌 🖣 Global Environment 👻 🔍
2 #Version of Rused • 4.1.2	
4 #Rstudio needs to be used for using the program in a simpler way : it is a tool for working	on R programs that
5 ###IMPORTANT : R software must be installed on your computer in order to install, run and us	se Rstudio Environment is empty
7	
8 ##dplyr : 1.0.7	
9 ##tidyverse : 1.3.1	
11 #Load the necessary packages each time you open Rstudio for running the program with the fun	nctions below
12 library("dplyr")	Description of a program
13 Inbrary(thdyverse)	Description of a program
15	
16 #SET PARAMETERS :	
18	ince preceded by a # and appearing all in
19 ##Input file (csv) name :	ines preceded by a # and appearing all in
20 #Indicate ("the_name_of_your_Tile.csv") - here you need to replace "France" by the	reen are comments in the program. These 👘 🚽
23 ##verification file (csv) name :	nes are there to describe the program and
24 ##ine csv the should be saved in the same folder as the one containing your data	vill not be run in the program
26	an not be run in the program.
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	be other lines without a $\#$ are the commands
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You are welcome to redistribute it under certain conditions.	T0_statistics_programs.Rproj 218 B May 8,
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Type 'license()' or 'licence()' for distribution details.	backports	Reimplementations of Functions Introduced Since R- 3.0.0	1.4.1
'citation()' on how to cite R or R packages in puplications.	🖌 base	The R Base Package	4.1.2
Type 'demo()' for some demos, 'help()' for on-line help, or	base64enc	Tools for base64 encoding	0.1-3
'help.start()' for an HTML browser interface to help. Type 'q()' to quit R.	🗌 bit	Classes and Methods for Fast Memory-Efficient Boolean Selections	4.0.4
>	bit64	A S3 Class for Vectors of 64bit	4.0.5





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4 #Rstudio needs to be used for using the program in a simpler way : it is a tool for working	on R programs the			
5 ####IMPORTANT : R software must be installed on your computer in order to install, run and us 6	se Rstudio	Er	nvironment is empty	
7 8 ##dn]vr • 1 0 7				
9 ##tidyverse : 1.3.1				
10	actions halow			
12 library("dplyr")	ICCTORS DETOW			
13 library("tidyverse")				
14				
16 #SET PARAMETERS :	How	to run a co	mmand	
17 #You will need to personalize the variables below with your parameters 18				
19 ##Input file (csv) name :				
20 #Indicate ("the_name_of_your_file.csv") - here you need to replace "France" by the name of y	_			
22	To run a con	nmand, simply	y select it (a	as 🦲
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26	'Run' buttor	n (or Ctrl+Ente	er).	
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5 ###IMPORTANT : R software must be installed on your computer in order to instal 6	l, run and use Rstudio	Environment is empty	
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8 ##dplyr : 1.0.7	How to run	an entire program	
10		an entire program	
11 #Load the necessary packages each time you open Rstudio for running the program	v		
12 library(dplyr) 13 library("tidyverse")			
14	It is also possible to i	run all the commands at once.	
15 16 #CET DADAMETERS :	To do this simply and	last the outing program	
17 #You will need to personalize the variables below with your parameters	to do this, simply set	lect the entire program	
18	(Ctrl+A) and click on	'Run'. The comment lines	
19 ##INDUT THE (CSV) name : 20 #Indicate ("the name of your file.csv") - here you need to replace "France" by			
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22 23 ##verification file (csv) name :	commands will be ru	in one by one	R
24 ##The csv file should be saved in the same folder as the one containing your da		in one by one.	Modifie
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2) Installation of the necessary equipment and presentation of the Rstudio software

A. Preliminary steps

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3) Running of the programs

A. Part 1 : R setup program (page 71)

B. Part 2 : Verification programs and template cleaning/standardization (page 81)

i. 1st verification program : 'Verifications template_step_1' (page 83)

ii. 2nd verification program : 'Verifications template_step_2' (page 112)

iii. 3rd verification program : 'Verifications template_step_3' (page 136)

C. Part 3 : Indicators and statistics production program (page 160)



Description of the different 'R' programs



→ All the R programs are already prepared and written, you will just need to make some minor parameter changes and run them.

 \rightarrow The verification part with 3 programs is the longest but this part is essential to ensure the reliability of the indicators that will come out of the last program 'TO_indicators'.



Rstudio interface to use

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!Important information!

To run all the programs in this 5.3.2 task, you will not need to use the Rstudio software installed directly on your computer.

You will need to go to the

'T0_statistics_programs' folder previously saved on your desktop and select the project called *T0_statistics_programs.Rproj*

Clicking on it will open an interface to Rstudio created specifically for the T0 statistics task. It is very important that you run all your programs on this Rstudio interface.

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



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Rstudio interface to use







Rstudio interface to use







Rstudio interface to use

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Rstudio interface to use







Rstudio interface to use



(If you have any doubts about which version of R to choose at this point as there are several 4.1.2 versions on offer, please feel free to send us a screenshot of the proposals made and we will help you choose)

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in the following slides.

WORK Package 5 – Reformulation and processed food monitoring

Rstudio interface to use



the European Union's mme (2014-2020)



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 *T0_statistics_programs.Rproj* located in the 'T0_statistitics_programs' folder on your desktop (see 2nd preliminary step <u>pages 30-31</u>)




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Running the 'R_setup' program

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



Running the 'R_setup' program

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Running the 'R_setup' program





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



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OK [moved to cache in 13 milliseconds]	hoor installed successfully
OK [installed binary]	been installed successfully.
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Installing rmarkdown [2.14] OK [installed binary]	You can now close the tab with the
Moving rmarkdown [2.14] into the cache	'P setun' program script clean up
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Moving testthat [3.1.4] into the cache	the console and move on to the
OK [moved to cache in 13 milliseconds] Installing uuid [1.1-0]	next program (see next pages).
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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/74766/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 83)

ii. 2nd verification program : 'Verifications template_step_2' (page 112)

iii. 3rd verification program : 'Verifications template_step_3' (page 136)

C. Part 3 : Indicators and statistics production program





Verification programs

- In this part, you will run 3 verification programs on your file : T0_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
- 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'

C. Part 3 : Indicators and statistics production program





1st verification program : 'Verifications template_step_1'

Presentation of the 'Verifications template step_1' program :

- This is the first out of the 3 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 T0 collection template is saved in .csv format in the folder 'Files' in the 'T0_statistics_programs' folder that you have saved on your desktop.
- You need to make sure that your template have been renamed : T0_data_collection_country.csv (with the name of your own country)
- You need to make sure that the barcodes in your file T0_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 <u>pages $55 \rightarrow 61$ </u>.





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1 ######## FIRST PROGRAMME OF VERIFICATION	🔺 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 on R programs	
5 ###IMPORTANT : R software must be installed on your computer in order to install, run and use Rstudio 6	Environment is empty
8 ##dplyr : 1.0.7	
9 ##tidyverse : 1.3.1	erifications template step 1'
10 11 #Load the necessary packages each time you open Rstudio for running the program with the funct	crineations template_step_1
12 library("dplyr")	nrogram onened
13 library("tidyverse") 14	program opened
15	
16 #SET PARAMETERS :	
18	
19 ##Input file (csv) name :	Filer Diete Backager Help Viewer
20 #Indicate (10_data_collection_France.csv) - here you need to replace France by the name of your own of 21 input_file="T0_data_collection_France.csv"	Prices Proces Packages help viewer
22	V New Folder V Delete Rename W More V
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	A Name
25 verification_file="wp5_verification_file.csv"	
27 ##OUTPUT TITE (CSV) name : 28 output file="To data collection France Step1 VERIFIED.csv"	. RData 125.9 KB May 3, 2022,
29	Rhistory 23.6 KB May 18, 2022
30 ##Indicate the separator used for saving your Excel file in csv ("," or ";")	C 🖄 .Rprofile 25 B May 4, 2022,
32	🗋 🧰 Files
33 ##If you have used a specific alphabet (greek, etc) in your template, please indicate "YES"	🗌 🧰 Indicators
34 Special_alphabet= NO 35	Programs
36	🗌 🧰 renv
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Running of 'Verifications template_step_1' program

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	l e										
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	9 10	##tidyverse : 1.3.1									
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	12	library("dplyr")									
	13	library("tidyverse")									
	14										
	16	#SET PARAMETERS :									
	17	#you will need to personalize the variables below with your parameters									
	18										
	19	<pre>##Input file (csv) name : #Indicate ("TO data collection France csv") here you need to replace #Indicate ("TO data collection France csv")</pre>									
	20 21	input file="TO data collection_France.csv"									
	22										
	23	##Verification file (csv) name :									
	24	##The csv file should be saved in the same folder as the one containing									
	25 26	verification_file= wps_verification_file.csv									
	27	##Output file (csv) name :									
	28	output_file="T0_data_collection_France_Step1_VERIFIED.csv"									
	29	""Toddarda abo annotation word fan anvier word fwile in av (" "									
	30	<pre>##Indicate the separator used for saving your Excel file in csv (, of separator="'"</pre>									
	32										
	33	##If you have used a specific alphabet (greek, etc) in your template,									
	34	special_alphabet= <mark>"NO"</mark>									
	30 36 -										
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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 28) of the R script.

You also need to indicate the separator used in your csv file (line 31). 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 34). This field only concerns countries with a specific alphabet and is therefore pre-filled as "NO".

Example :

- input file =
 - "T0_data_collection_Poland.csv"
- output file = "T0_data_collection_Poland_Step1_VERIFIED.csv"
- Separator = ";"
- Special_alphabet = "NO"





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5 ###IMPORTANT : R software must be installed on your computer in order to install, <u>run and use Rstudio</u>	Environment is empty
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8 ##dplyr: 1.0.7 Select the e	entire program (Ctri+A)
9 ##tidyverse : 1.3.1	
10 H and the necessary packages each time you open Estudio for running the program w and press	s Run (or Ctri+Enter)
12 library("dplyr")	
13 library("tidyverse")	
14 15 The program will	run entirely.
16 #SET PARAMETERS :	ran enterery.
17 #You will need to personalize the variables below with your parameters	
18 19 ##Input file (csv) name :	
20 #Indicate ("TO_data_collection_France.csv") - here you need to replace "France" by the name of your own c	Files Plots Packages Help Viewer
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23 ##Verification file (csv) name :	> C: > Users > t.laguitton > Desktop > T0_statistics_programs
24 ##The csv file should be saved in the same folder as the one containing your data set in csv	▲ Name Size Modified
25 verification_file="wp5_verification_file.csv" 26	1
27 ##Output file (csv) name :	RData 125.9 KB May 3, 2022,
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29 30 ##Todicate the separator used for saving your Eycel file in csy (" " or ".")	Recentle Section 25 P May 4 2022
31 separator=";"	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
32	L Files
33 ##IT you have used a specific alphabet (greek, etc) in your template, please indicate "YES" 34 special alphabet="NO"	Indicators
35	Programs
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7	66		Poland	2022	Soft_drinks	Flavoured s	program but you don't need to look at them				
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Excel file to modify after 'Verifications template_step_1' program

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Added slide

WORK Package 5 – Reformulation and processed food monitoring

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Excel file to modify after 'Verifications template_step_1' program

- 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.





Excel file to modify after 'Verifications template_step_1' program

Duplicate_codeDifferent products have the same product code→ You must change the product code so that all products have a unique code→ You must change the product code so that all products have a unique code→ You must create a unique product code that does not already exist for the product→ You must create a unique product code that does not already exist for the product→ You must create a unique product code that does not already exist for the product→ 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→ You must correct the collection year (no other choice than 2021 or 2022) or add it if it is missing→ You must check the spelling of the category mandatory fieYearIncorrect category name (i.e. not contained in the closed list of the input template) or missing country name→ You must correct the collection year (no other choice than 2021 or 2022) or add it if it is missingYearIncorrect category name (i.e. not contained in the closed list of the appling of the category mandatory fieYearIncorrect category name (i.e. not contained in the closed list of the spelling of the category mandatory fieYearIncorrect category name (i.e. not contained in the closed list of the spelling of the category mandatory fieYearIncorrect category name (i.e. not contained in the closed list of the spelling of the category mandatory fieYearYou must check the spelling of the category mandatory fieYearYou must check the spelling of the category mandatory	<u>Problem</u>	<u>Meaning</u>	<u>Action</u>	
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closed list of the input template) or missing category name	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 mandator 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



Excel file to modify after 'Verifications template_step_1' program

<u>Problem</u>	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	



Added slide

WORK Package 5 – Reformulation and processed food monitoring

Excel file to modify after 'Verifications template_step_1' program



 If the problem bar_code_length_or_empty 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't take 0's at the beginning of a number into account) but this important information will be kept thanks to the 'bar_code_starts_0' column.

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omment	Category_	Subcatego	bar_code_starts_0	roblems		Π
	9	653				
	9	95				
	9	651				
	9	662				
	1	386				
	1	739		bar_code_length_or_empty		
	1	679				
	1	678				
	1	681				
	1	745	Yes	bar_code_length_or_empty		
	1	680				
	1	386				
	1	745				
	1	138		bar_code_chr		
	5	795				
	5	795				
	5	333				
	5	628				
	5	742				
	5	634				





Excel file to modify after 'Verifications template_step_1' program

<u>Problem</u>	<u>Meaning</u>	<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 _english 	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	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'.	'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 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	<u>Action</u>
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





Excel file to modify after 'Verifications template_step_1' program

• 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).





Excel file to modify after 'Verifications template_step_1' 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 *TO_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 55→61</u>.




2nd running of 'Verifications template_step_1' program

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	of 'Verifications template step 1' program
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 5 ###IMPOPTANT : P software must be installed on your computer in order to installed	
6	For this second running of the 'Verifications
7 8 ##dolum + 1 0 7	template stap 1' the only fields you peed to shange
9 ##tidyverse : 1.3.1	template_step 1, the only helds you need to change
	are the names of the input file and the output file.
11 #Load the necessary packages each time you open Rstudio for running the program	
13 library("tidyverse")	
14	Innut file -
16 #SET PARAMETERS :	mput_me -
17 #You will need to performalize the variables below with your parameters	"TO data collection country Step1 CORRECTED.csv"
19 ##Input file (csv) name :	/_ /
20 #Indicate ("TO_data_collection_France.csv") - here you need to replace "France"	
21 input_file= io_data_collection_France.csv	Output file =
23 ##verification file (csv) name :	
24 ##The csv file should be saved in the same folder as the one containing your da 25 verification file="wp5 verification file.csv"	"IU_aata_collection_country_ Step1_ VERIFIED2.csV"
26	
27 ##Output file_(csv) name : 28 output file_"TO data collection France Sten1 VERTETED csv"	
29	You must also indicate the separator and if you have a
30 ##Indicate the separator used for saving your Excel file in csv ("," or ";") 31 separator=""."	specific alphabet as in the first run of the program
32	specific alphabet as in the first run of the program.
33 ##If you have used a specific alphabet (greek, etc) in your template, please in 34 special alphabet."	arcate YES
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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: "TO_data_collection_country_Step1_VERIFIED2.csv"
- You must create a copy of this file and call it : *"TO_data_collection_country_Step1_CORRECTED2.csv"*

 \rightarrow 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'

C. Part 3 : Indicators and statistics production program





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: T0_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 T0_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 $55 \rightarrow 61$.





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2 3 #Version of R used : 4.1.2		
F #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 7 8	Environment is	empty
9 ##dplyr : 1.0.7 10 ##tidyverse : 1.3.1	rifications temp	late step 2'
<pre>12 #Load the necessary packages each time you open Rstudio for running the program with the functi 13 library("dplyr") 14 library("tidyverse") 15</pre>	program op	ened
10 17 #SET PARAMETERS : 18 #You will need to personalize the variables below with your parameters 19		
20	Files Plots Packages Help View	ver 🔤 🗖
21 ##Input file (csv) name : 22 #Indicate ("It data collection France Sten1 CORPECTED csv") - here you need to replace "France" by the name	💁 New Folder 🛛 😫 Delete 📑 Rename	🏟 More 👻 🛞
<pre>23 input_file="T0_data_collection_France_Step1_CORRECTED.csv"</pre>	$\hfill >$ C: $>$ Users $>$ t.laguitton $>$ Desktop $>$	T0_statistics_programs 🚯
24 #The template you will import is the one you have created via <u>Verifications</u> template_step_1 ; it should a	A Name	Size Modified
26 ##Verification file (csv) name :	1	
27 ##The csv file should be saved in the same folder as the one containing your data set in csv - here you r	🔲 🔲 .RData	125.9 KB May 3, 2022,
29 verification_file= wps_verification_file.csv	🗋 😐 Rhistory	23.6 KB May 18, 2022
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8 9 ##dplyr : 1.0.7 10 ##tidyverse : 1.3.1	name of the country with your own country name in the input file
<pre>#Load the necessary packages each time you open Rstudio for running the p 13 library("dplyr") 14 library("tidyverse") 15</pre>	<pre>(line 23) and the output file (line 35) of the R script + line 32 ('own_country=')</pre>
16 17 18 18 19 20	You must also indicate the separator and if you have a specific alphabet as in the program 'Verifications template_step_1'.
<pre>21 ##Input file (csv) name : 22 #Indicate ("TO_data_collection_France_Step1_CORRECTED.csv") - here you no 23 input_file="TO_data_collection_France_Step1_CORRECTED.csv" 24 #The template you will import is the one you have created via Verification 25</pre>	Example :
<pre>26 ##Verification file (csv) name : 27 ##The csv file should be saved in the same folder as the one containing y 28 verification_file="wp5_verification_file.csv" 29</pre>	"T0_data_collection_Poland_Step1_CORRECTED(X).csv" ((X) is the number of the last file exported and corrected after the last run of
30 #Enter the name of your country exactly as entered in the file (respect 1 31 #Replace Ireland with your own country (keep the quoting marks) 32 own_country="France"	the first verification program)
<pre>34 #Define the output file name 35 output_file="T0_data_collection_France_Step2_VERIFIED.csv" 36</pre>	 Own_country = "Poland" (same spelling as in the country name in the template)
<pre>37 ##Indicate the separator used for saving your Excel file in csv ("," or ' 38 separator=";" 39</pre>	
<pre>40 ##If you have used a specific alphabet (greek, etc) in your template, plo 41 special_alphabet="NO" 42</pre>	Output_file = "TO_data_collection_Poland_Step2_VERIFIED.csv"
43 - 4 39:1 (Top Level) \$	Separator = ";"
Console	Special alphabet = "NO"





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9 ##dplyr : 1.0.7		
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13 library("dplyr") 14 library("tidwerse")	Select the entire program (Ctri+A)	
15		
16	and press 'Run' (or Ctrl+Enter)	
17 #SET PARAMETERS : 18 #You will need to personalize the variables below with your par	rameters /	
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20	The program will rup optiroly	
21 ##Input file (csv) name : 22 #Indicate ("TO data collection France Step1 CORRECTED cov") h	the program will full entirely.	
<pre>23 input_file="T0_data_collection_France_Step1_CORRECTED.csv"</pre>		
24 #The template you will import is the one you have created via <u>v</u>	<u>Verifications</u> template_step_1 ; it should a	
25 26 ##Venification file (csv) name :		
27 ##The csv file should be saved in the same folder as the one co	ontaining your data set in csy - here you r Files Plots Packages Help Viewer	
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29	(account the conited letter)	R
31 #Replace Ireland with your own country (keep the guoting marks)	(respect the capital fetter)	odified
32 own_country="France"		
33 24 #Define the output file name		2, 2022
34 #Define the output file name 35 output file="TO data collection France Step2 VERIFIED.csv"	. KData 125.9 KB M	ay 3, 2022,
36	□ ≌ .Rhistory 23.6 KB M	ay 18, 2022
37 ##Indicate the separator used for saving your Excel file in csv	v ("," or ";")	ay 4, 2022,
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40 ##If you have used a specific alphabet (greek, etc) in your tem	mplate, please indicate "YES" 🛛 🦳 Indicators	
41 special_alphabet="NO"		
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5	55		Poland	2021	Soft_drinks	Sugar-sweetened fruit be	(only if there are errors or warnings in the	🎟							
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12	94		Poland	2022	Soft_drinks	Flavoured waters without	program execution you should see the sentence	Mor							
13	95		Poland	2022	Soft_drinks	Sugar-sweetened energy	program execution, you should see the sentence	®							
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3	23		Poland	2021	Soft drink	Plant-base	1,23E+12	No	Alpro	ŀ	Hard	diced Crunck	NU O Eizzu O	ube Alpro (Orid Moir	TwowT	roffic lig	rht	Via Diac	10	00 mL	_
4	41		Poland	2021	Soft drink	Sugar-swe	1,23E+12	No	BOMBA!	ŀ	Har		(Nuar			f th			2	50 mL	
5	50		Poland	2022	Soft drink	Other spo	1,23E+12	No	Adelholze	ner Alpen H	Har		· · · ·	Jver	vie					5	00 mL	
6	55		Poland	2021	Soft drink	Sugar-swe	1,23E+12	No	Сарру	E	Ent		TO	dat			octi	00		10	00 mL	
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8	66		Poland	2022	Soft drink	Flavoured	1,23E+12	No	Adelholze	ner Alpen H	Har			Cto		<u></u>	000			5	00 mL	_
9	67		Poland	2022	Soft drink	Flavoured	1,23E+12	No	Adelholze	ner Alpen H	Har	COUI	ntry_	Ste	02_	CO	KKE	:C/I	:D.CS	V 7	50 mL	_
10	68		Poland	2022	Soft drink	Sugar-swe	1,23E+12	No	Adelholze	ner Alpen H	Har	C • •	- 1 -							5	00 mL	_
11	76		Poland	2021	Soft drink	Fruit beve	1,23E+12	No	Сарру	E	Ent	tile	e wh	ich is	s a r	nev	v ve	ersic	on of	2	50 mL	_
12	87		Poland	2021	Soft drink	Colas with	1,23E+12	No	Coca-Cola	The Coca- E	Ent									12	50 mL	_
13	94		Poland	2022	Soft drink	Flavoured	1,23E+12	No	Almdudle	r ŀ	Har	VOUR	· ΤΟ α	lata	coll	lect	tion	ter	nnlat	e 5	00 mL	_
14	95		Poland	2022	Soft drink	Sugar-swe	1,23E+12	No	Almdudle	r ŀ	Har	your			con			ce.	ipiac	3	30 mL	_
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16	101		Poland	2021	Soft drink	Flavoured	1,23E+12	No	FÉLEGYHÁ	ZI E	Ent		VIIICI	i yuu			ave		Πακό	2	50 mL	_
17	106		Poland	2021	Soft drink	Tea bever	1,23E+12	No	FUZETEA	E	Ent		nodi	ficat	ion	- 1-	orro	otic		15	00 mL	
18	127		Poland	2021	Soft drink	Sugar-swe	1,23E+12	No	HELL	E	Ent	[]	noui	IICal	IOUS	s/CC	JIIE	ectic	JUZ	2	50 mL	
19	140		Poland	2021	Soft drink	Fruit beve	1,23E+12	No	Hey-Ho	E	Ent									10	00 mL	
20	232		Poland	2022	Soft drink	Fruit beve	1,23E+12	No	Bebivita	ŀ	Hard	discc Cruncł	hy c Fizzy c	ube Bebivi	ta K Beb	ivita c T	raffic lig	ht	Fruchtsa	f 2	00 mL	
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Enter You will have to fill in the net_weight_unit of this product	4	•	there i	is an in	consis	tency/e	rror ir	the 'n	et we	eight un	it' or '	net w	eight	' fields.							•
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Excel file to modify after 'Verifications template_step_2' program

<u>Problem</u>	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





Excel file to modify after 'Verifications template_step_2' program

<u>Problem</u>	Meaning	Action
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 what to enter





Excel file to modify after 'Verifications template_step_2' program

<u>Problem</u>	<u>Meaning</u>	Action
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

<u>Problem</u>	<u>Meaning</u>	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

- 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 *TO_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 55→61</u>.





2nd running of 'Verifications template_step_2' program

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8 9 ##dplyr : 1.0.7	of Warifications template step 2' program
10 ##tidyverse : 1.3.1 11	or vernications template_step_z program
12 #Load the necessary packages each time you open Rstudio for running the progra	
14 library("tidyverse")	For this second running of the Worifications
17 #SET PARAMETERS :	template_step 2', the only fields you need to change
19	are the names of the input file and the output file.
21 ##Input file (csv) name :	
<pre>22 #Indicate ("T0_data_collection_France_Step1_CORRECTED.csv") - here you need to 23 input_file="T0_data_collection_France_Step1_CORRECTED.csv"</pre>	lunut filo -
24 #The template you will import is the one you have created via <u>Verifications</u> te 25	input_nie =
26 ##verification file (csv) name :	"T0_data_collection_country_ Step2_ CORRECTED.csv"
27 ##The csv The should be saved in the same folder as the one concarring your d 28 verification_file="wp5_verification_file.csv"	
29 30 #Enter the name of your country exactly as entered in the file (respect the ca	Output file =
31 #Replace Ireland with your own country (keep the quoting marks) 32 own country="France"	"To data collection country Ston? VERIFIED? could
33 24 #Define the output file name	TO_ddtd_conection_country_ stepz_vERIFIED2 .csv
<pre>34 #Define the output fire name 35 output_file="T0_data_collection_France_Step2_VERIFIED.csv"</pre>	
36 37 ##Indicate the separator used for saving your Excel file in csv ("," or ";")	Make sure the country name on line 32 is yours and if
38 separator= <mark>";"</mark> 39	not enter it
40 ##If you have used a specific alphabet (<u>greek</u> , etc) in your template, please i 41 special_alphabet="No"	not, enter n.
42 43	You must also indicate the separator and if you have a
39:1 (Top Level) \$	anasifia alababat as in the first run of the surgers
Console	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: "TO_data_collection_country_Step2_VERIFIED2.csv"
- You must create a copy of this file and call it : *"TO_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'

C. Part 3 : Indicators and statistics production program





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: T0_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 T0_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 $55 \rightarrow 61$.





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1 ####### THIRD PROGRAMME OF VERIFICATION (DISTRIBUTION)	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 on R programs	
5 ###IMPORIANI : R SOTTWARE MUST DE INSTAILED ON YOUR COMPUTER IN ORDER TO INSTAIL, RUN AND USE RETUDIO	Environment is empty
7 #Load the necessary packages each time you open Rstudio for running the program with the functions below	
9 library("tidyverse")	finations to mulate stars 2/
10 Veri	fications template_step_3
11 12 #SET PARAMETERS :	
13 #You will need to personalize the variables below with your parameters	program opened
14 15 ##Input file (csv) name :	
16 #Indicate ("TO_data_collection_France_Step2_CORRECTED.csv.csv") - here you need to replace "France" by the	
<pre>17 input_file= IO_data_collection_France_Step2_CORRECTED.csv 18 #The template you will import is the one you have created via Verifications template_step_2 ; it should a</pre>	
19	Filer Dietz Deckager Hele Viewer
20 21 ##Output file (csv) name :	Piles Piles Packages nelp viewei
<pre>22 output_file="T0_data_collection_France_Step3_VERIFIED.csv"</pre>	New Folder Delete Rename Wrote
23 24 ##Indicate the separator used for saving your Excel file in csv ("," or ";")	A Name Size Modified
25 separator=";"	£
20 27 ##If you have used a specific alphabet (greek, etc) in your template, please indicate "YES"	RData 125.9 KB May 3, 2022.
28 special_alphabet="NO"	□ [®] .Rhistory 23.6 KB May 18, 202
30	□ ♥ .Rorofile 25 B May 4, 2022.
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<pre>####################################</pre>	program
<pre>6 7 #Load the necessary packages each time you open Rstudio for running the pr 8 library("dplyr") 9 library("tidyverse") 10 11</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>12 #SET PARAMETERS : 13 #You will need to performationalize the variables below with your parameters 14 15 ##Input file (csv) name : 16 #Indicate ("TO_data_collection_France_Step2_CORRECTED.csv.csv") - here you 17 input_file="TO_data_collection_France_Step2_CORRECTED.csv" 18 #The template you will import is the one you have created via <u>Verification</u> 19</pre>	You must also indicate the separator and if you have a specific alphabet as in the program 'Verifications template_step_1' and 'Verifications template_step_2'.
<pre>20 21 ##Output file (csv) name ; 22 output_file="T0_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, plea: 28 special_alphabet="NO" 29 20 20 20 20 20 20 20 20 20 20 20 20 20</pre>	<pre>Example : Input_file = "T0_data_collection_Poland_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 = "T0_data_collection_Poland_Step3_VERIFIED.csv"
R 4,1,2 C:/Users/t.laguitton/Desktop/T0_statistics_programs/	 Separator = ";" Special alphabet = "NO"





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1 ######## THIRD PROGRAMME OF VERIFICATION (DISTRIBUTION)	×	R 👻 💼 Global Environment 👻	Q	
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 on	R programs			
5 ###IMPORTANT : R software must be installed on your computer in order to install,			-	
7 #Load the necessary packages each time you open Rstudio for running the program wi	Select the entire program (Ctrl+A)			
9 library("tidyverse") 10 ar	nd pres	s 'Run' (or Ctrl+E	nter)	
		•	· · · ·	
12 #SEL PARAMETERS . 13 #You will need to personalize the variables below with your parameters				
	oram will	run entirely		
15 ##Input file (csv) name :	Signa win	run churchy.		
17 input_file="To_data_collection_France_step2_confected.csv"				
18 #The template you will import is the one you have created via <u>Verifications</u> template_step_2; i	it should a			
19		Files Plots Packages Help Viewe	Ar .	
21 ##Output file (csv) name :		Piles Flots Futurges Flots Panama	and the second	
<pre>22 output_file="T0_data_collection_France_Step3_VERIFIED.csv"</pre>				
23 24 ##Indicate the separator used for saving your Eyrel file in csy (" " or ".")		C Sosers S Laguitton S Desktop S II	Size	Modified
25 separator=";"			5126	woullied
26				
2/ ##IT you have used a specific alphabet (greek, etc) in your template, please indicate "YES" 28 special alphabet="No"		.RData	125.9 KB	May 3, 2022,
		Rhistory	23.6 KB	May 18, 2022
30		🗌 🕙 .Rprofile	25 B	May 4, 2022,
31 • ###################################		📄 🗐 Files		
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Running of 'Verifications template_step_3' program

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^	Subcategory_name_VN			R 🝷 📫 Global Environment 🝷 🔍
1	Sugar-sweetened plant-based b	Program running	<u>^</u>	
2	Sugar-sweetened plant-based b			Environment is empty
3	Sugar-sweetened plant-based b			
4	Sugar-sweetened plant-based b	The 'Verifications template step 3' program can		
5	Sugar-sweetened plant-based b	take quite a long time (a few seconds to a few		
6	Sugar-sweetened plant-based b	take quite a long time (a lew seconds to a lew		
7	Sugar-sweetened plant-based b	minutes) to run		
8	Sugar-sweetened plant-based b			
9	Sugar-sweetened plant-based b	When the program is rupping and has not finished		
10	Sugar-sweetened plant-based b	when the program is running and has not inished		
11	Sugar-sweetened plant-based b	its execution, a stop sign appears at the top right		Files Plots Packages Help Viewer
12	Sugar-sweetened plant-based b	of the console. This means that the program is		Provide Contraction Contractio
13	Sugar-sweetened plant-based b	or the console. This means that the program is		guitton > Desktop > T0_statistics_programs 🛞
14	Sugar-sweetened plant-based b	running and you must not close the		▲ Name Size
15	Sugar-sweetened plant-based b	'TO statistics programs – Rstudio' window or the	-	1
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😱 R.4	,1,2 · C:/Users/t.laguitton/Deskto	pp/T0_statistics_programs/Files/ 🖄		□ M Rprofile 25 B
+	pb_outliers<-base:	append(pb_outliers," ") #If TRUE is indicated, nothing is added to the li	st pb_outliers	
+ + pb	} _outliers<-base::past	te(pb_outliers,sep=" ", collapse=" ")	m the pb_outliers list	
+ St	ep3_T0_data[i,"Proble	ems_outlier"]<-pb_outliers	column/line from your St	
+ }				□ □ renv.lock 36.4
+ }			v	T0_statistics_programs.Rproj 218





Running of 'Verifications template_step_3' program

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^	Subcategory_name_VN	Q1 [‡]	Q3 [‡]	IQR [‡]	IQRx1_5	lim_inf $^{\circ}$	lim_sup	🗘 R 💌 💼 Global Environment 👻 🖸	
1	Sugar-sweetened plant-based beverages/Energy_kJ_num	NA	NA	NA	NA	NA		After running the program	
2	Sugar-sweetened plant-based beverages/Energy_kCal_num	29.0000	29.0000	0.0000	0.00000	29.00000	29.00	Anter Fulling the program	
3	Sugar-sweetened plant-based beverages/Fat_num	1.6000	1.6000	0.0000	0.00000	1.60000	1.60		
4	Sugar-sweetened plant-based beverages/Saturated_fat_num	0.2000	0.2000	0.0000	0.00000	0.20000	0.20	Several tables appear next to the R program	
5	Sugar-sweetened plant-based beverages/Carbohydrates_num	3.1000	3.1000	0.0000	0.00000	3.10000	3.10	cerint. These tables are working tools for the D	🔲
6	Sugar-sweetened plant-based beverages/Sugar_num	3.1000	3.1000	0.0000	0.00000	3.10000	3.10	script. These tables are working tools for the R	💷
7	Sugar-sweetened plant-based beverages/Protein_num	0.4000	0.4000	0.0000	0.00000	0.40000	0.40	program but you don't need to look at them	-
8	Sugar-sweetened plant-based beverages/Salt_num	0.1300	0.1300	0.0000	0.00000	0.13000	0.13	(only if there are errors or warnings in the	
9	Sugar-sweetened plant-based beverages/Fibre_num	0.3000	0.3000	0.0000	0.00000	0.30000	0.30		5
10	Sugar-sweetened plant-based beverages/Energy_as_consu	NA	NA	NA	NA	NA		console but in this case you have to tell us so we	5 👻
11	Sugar-sweetened plant-based beverages/Energy_as_consu	NA	NA	NA	NA	NA		can help you).	
12	Sugar-sweetened plant-based beverages/Fat_as_consumed	NA	NA	NA	NA	NA			More
13	Sugar-sweetened plant-based beverages/Saturated.fat_as_c	NA	NA	NA	NA	NA			····
14	Sugar-sweetened plant-based beverages/Carbohydrates_as	NA	NA	NA	NA	NA		At the end of the 'Verifications template_step_3'	Size
15	Sugar-sweetened plant-based beverages/Sugar_as_consum	NA	NA	NA	NA	NA		program execution you should see the sentence	
Showing 1	to 16 of 1,494 entries, 7 total columns							highlighted in wellow in the sensels	125.
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😱 R4	1.2 · C:/Users/t.laguitton/Desktop/T0_statistics_programs/File	s/ 🖈							25 B
> Step	3_T0_data_f\$Category_name<-base::gsub(,	,Step3_	TO_data	_f\$Catego	ry_name)		The program exports an excel file named	
> > #Int	o csv format								
> util	s::write.csv2(Step3_T0_data_f,file=out	put_file	e,na="	",row.n	ames=FALS	E)		IO_data_collection_country_Step3_VERIFIED.csv	
> prin	t("The file should appear in the folder	r 'Files	5'")					to your "Files" folder in the	36.4
[1] "T	he file should appear in the folder 'F	iles'"						"TO statistics programs" folder	218
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Running of 'Verifications template_step_3' program

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Excel file to modify after 'Verifications template_step_3' program

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13	94	F	Poland	2022	Soft drink	Flavoured	1.23E+12	No	Almdudle	r Ha	you	r IU (Jata	COII	ect	10 1	tem	plate	2 50	0 mL		-
14	95	F	Poland	2022	Soft drink	Sugar-swe	1.23E+12	No	Almdudle	r Ha	- 1							1 A -	33	0 mL		-
15	97	F	Poland	2022	Soft drink	Sugar-swe	1,23E+12	No	Alnatura	Ha	IN V	vhicr	ι γοι	וש ג	IIn	ave 1	to n	nake	50	0 mL		-
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17	106	F	oland	2021	Soft drink	Tea bever	1,23E+12	No	FUZETEA	En	r	nodi	ficat	ions	s/co	orred	ctior	าร	150	0 mL		-
18	127	F	Poland	2021	Soft drink	Sugar-swe	1,23E+12	No	HELL	En									25	0 mL		-
19	140	F	Poland	2021	Soft drink	Fruit beve	1,23E+12	No	Hey-Ho	Ent	ry leve Crunc	hy c(Fizzy c	ube Hey-H	lo Lij Hey	-Ho Lij N	None from	the list	Víz, 25%	? 100	0 mL		
20	232	F	Poland	2022	Soft drink	Fruit beve	1,23E+12	No	Bebivita	Har	d disco Cruno	hy c Fizzy c	ube Bebiv	ita K Beb	ivita c T	raffic ligh	t	Fruchtsa	f 20	0 mL		
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Excel file to modify after 'Verifications template_step_3' program

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Excel file to modify after 'Verifications template_step_3' program

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Excel file to modify after 'Verifications template_step_3' program

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Excel file to modify after 'Verifications template_step_3' program

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Excel file to modify after 'Verifications template_step_3' program

<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>	<u>Solution</u>
 Energy_kCal Energy_kJ Fat Saturated_fat Carbohydrates Sugar Protein Salt Fibre Energy_as_consumed_kCal Energy_as_consumed_kJ Fat_as_consumed Saturated_fat_as_consumed Carbohydrates_as_consumed Sugar_as_consumed Sugar_as_consumed Salt_as_consumed Fibre_as_consumed 	 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.





Excel file to modify after 'Verifications template_step_3' 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 *TO_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_2' program again. All cleaning steps are described on <u>pages 55→61</u>.





2nd running of 'Verifications template_step_3' program

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1 ######## THIRD PROGRAMME OF VERIFICATION (DISTRIBUTION)	🔺 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 to install	For working on R programs
6	Sotting parameters of the second rupping
7 #Load the necessary packages each time you open Rstudio for running the program we library("dplyr")	Setting parameters of the second running
9 library("tidyverse")	of Warifications tomplate stop 2' program
10	or vernications template_step_s program
1 #SET PARAMETERS :	
1 3 From will need to pe rsonalize the variables below with your parameters	
15 ##Input file (csv) name :	For this second running of the 'Verifications
16 #Indicate ("TO_data_collection_France_Step2_CORRECTED.csv.csv") - here you need to input file_"TO_data_collection_France_Step2_CORRECTED.csv."	templete step 2' the only fields you need to shange
18 #The template you will import is the one you have created via Verifications temp	template_step 3, the only helds you need to change
19	are the names of the input file and the output file
21 ##Output file (csv) name :	
<pre>22 output_file="T0_data_collection_France_Step3_VERIFIED.csv" 22</pre>	
<pre>23 24 ##Indicate the separator used for saving your Excel file in csv ("," or ";")</pre>	Input file =
25 separator= <mark>";"</mark>	"To data collection country Ston? CORRECTED cou"
27 ##If you have used a specific alphabet (greek, etc) in your template, please ind	TO_UUUU_CONPECTION_COUNTRY_SIEPS_CORRECTED.CSV
28 special_alphabet <mark>="NO"</mark>	
30	Output file -
31 - ###################################	Output_me =
26:1 (Top Level) =	"TO data collection country Step3 VERIFIED2.csv"
	/_ / _
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K 4, 1, 2 + C;/Users/Liaguition/Desktop/TU_statistics_programs/ P/	You must also indicate the separator and if you have a
	specific alphabet as in the first run of the program
	specific alphabet as in the first run of the program.





2nd running of 'Verifications template_step_3' program

- At the end of this second run, you get in your "files" folder a file called: "TO_data_collection_country_Step3_VERIFIED2.csv"
- You must create a copy of this file and call it : *"TO_data_collection_country_Step3_CORRECTED2.csv"*

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







End of the 3 verification programs

→ You should now have a file called : TO_data_collection_country_Step3_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 : T0_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 3 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'

C. Part 3 : Indicators and statistics production program





Production of indicators for data collected during TO

Presentation of the 'T0_indicators' program :

- Thanks to the 'T0_indicators' program, you will be able to output indicators on your data collected during T0 that you will insert in a report you will each write. (see part 4.Production of the report)
- The aim is to produce harmonised indicators, so it is necessary that all partners use the same program and produce similar indicators to be comparable.
- These indicators will be output as .jpeg graphs and .csv tables at the end of the program and should be inserted as such in your report.
- In the program for producing the indicators, the non-quantified values ("traces" and "<") are treated automatically and as in Oqali and JANPA:
 - □ "traces": replaced by 0,0001
 - □ "<": the value is divided by 2 Example : < $0,5 \rightarrow 0,25$

Only data collected during TO will be treated in this section. Indicators with link to pre-existing data will be seen in a future training with the presence of partners carrying out a T+1 collection.





Production of indicators for data collected during T0

Requirements before starting this section :

- Before starting this part, you should have run the 3 verification programs that were described before and in which you had no more problems to correct (or problems that have been verified and do not need to be changed)
- You should have in your possession your template of data collected during T0 in .csv format which should now be called : TO_data_collection_country_Step3_CORRECTED(X).csv
 ((X) is the number of the last file exported and corrected after the last run of the third verification program)
- You need to make sure that the barcodes in your file T0_data_collection_*country*_Step3_CORRECTED(X).csv appear in full and not in scientific format (see procedure <u>pages 24→28</u>)

Your Rstudio interface must have been cleaned up before running the program. All cleaning steps are described on <u>pages $55 \rightarrow 61$ </u>.





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1 ######## TO INDICATORS	🔺 R 👻 🖣 Global Environment 👻 🔍
2 3 #version of Pused • 4.1.2	
4 #Rstudio needs to be used for using the program in a simpler way : it is a tool for working on R programs	
5 ###IMPORTANT : R software must be installed on your computer in order to install, run and use Rstudio	Environment is empty
0 7 ##dnlvr : 1.0.7	
8 ##tidyverse : 1.3.1	
9 ##ggplot : 3.3.5	
10 II #Load the necessary packages each time you open Restudio for running the program with the function (TO) indicators' program opened
12 library("ggplot2")	program opened
13 library("dplyr")	
14 Ibrary("tidyverse")	
16	
17 #SET PARAMETERS :	
18 #You will need to personalize the variables below with your parameters	
20 ##Toput file (csv) name :	Files Plots Packages Help Viewer
21 #Indicate ("TO_data_collection_France_Step3_CORRECTED.csv") - here you need to replace "France" by the na	New Folder Q Delete Pename 🍪 More 🛪 📿
<pre>22 input_file="T0_data_collection_France_Step3_CORRECTED.csv"</pre>	C Lisers Liauitton Deskton T0 statistics programs
23 24 ##verification file (csv) name ·	A Name Cize Modified
25 ##The csv file should be saved in the same folder as the one containing your data set in csv - here you r	
26 verification_file="wp5_verification_file.csv"	
27	RData 125.9 KB May 3, 2022,
29 separator=:"	Rhistory 23.6 KB May 18, 2022
30	🗌 🐮 .Rprofile 25 B May 4, 2022,
31 ##If you have used a specific alphabet (greek, etc) in your template, please indicate "YES"	Files
32 Special_alphabet= NO	
34	
35 - ###################################	Programs
	🗋 🧰 renv
35:54 🔀 (Untitled) 🛊 R Script 🗧	renv.lock 36.4 KB May 4, 2022,
Console	T0_statistics_programs.Rproj 218 B May 18, 202:





'TO_statistics_programs' folder on your desktop.

ID_statistics_programs - RStudio	– 0 ×
File Edit Code View Plots Session Build Debug Profile Tools Help	
🔍 🗸 🧐 🚰 🖌 🔚 📑 🛛 🍌 Go to file/function	ID_statistics_programs — Desktop
T0_indicators.R* ×	Environment History Connections Tutorial
	Setting parameters of the 'TO_indicators'
2 3 #Version of R used : 4.1.2 4 #Rstudio needs to be used for using the program in a simpler way : it i 5 ###IMPORTANT : R software must be installed on your computer in order t 6	program
<pre> ##dplyr : 1.0.7 ##tidyverse : 1.3.1 ##tidyverse : 1.3.1 ##ggplot : 3.3.5 10 11 #Load the necessary packages each time you open Rstudio for running the 12 library("ggplot2") 13 library("dplyr") 14 library("tidyverse") 14 library("tidyverse") 15 discussion 16 discussion 17 discussion 18 discussion 19 discussion 19 discussion 10 discussion 11 discussion 12 discussion 13 discussion 14 di</pre>	In the 'TO_indicators' program, you need to change the name of the country with your own country name in the input file (line 22) in the script of the program.
15 1 1 #SET PARAMETERS : 18 #Tou will need to personalize the variables below with your parameters 19	You must also indicate the separator and if you have a specific alphabet as in the verification programs.
<pre>20 ##Input file (csv) name : 21 #Indicate ("T0_data_collection_France_Step3_CORRECTED.csv") - here you 22 input_file="T0_data_collection_France_Step3_CORRECTED.csv" 23</pre>	Example :
24 ##verification file (csv) name : 25 ##The csv file should be saved in the same folder as the one containing 26 verification_file="wp5_verification_file.csv" 27	Input_file = "T0_data_collection_Poland_Step3_CORRECTED(X).csv"
<pre>27 28 ##Indicate the separator used for saving your Excel file in csv ("," or 29 separator=";" 30</pre>	((X) is the number of the last file exported and corrected after the last run of the second verification program)
<pre>31 ##If you have used a specific alphabet (greek, etc) in your template, p 32 special_alphabet="NO" 33 34 25 ####################################</pre>	 Separator = ";"
36 borg-ootwd() # cot the current working directory 37 4 35:54 🗑 (Untitled) \$	Special_alphabet = "NO"
Console	→ There is no output file to set up here as the program outputs are automatically named and stored in the 'Indicators' folder of the





ID_statistics_programs - RStudio	- 0 X
File Edit Code View Plots Session Build Debug Profile Tools Help	
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T0_indicators.R* ×	Environment History Connections Tutorial
🕼 🗐 🖓 Osurce on Save 🔍 🥕 🗧 👘 Source 🗸 🗏	🖅 📊 🐨 Import Dataset 🔹 😃 175 Miß 🔹 🔏 📃 List 🔹 🎯 🗸
1 ######## T0 INDICATORS	A R * Global Environment *
2	
3 #Version of R used : 4.1.2	
4 ##Studio needs to be used for using the program in a simpler way. It is a tool for working on k programs 5 ###TMPORTANT : R software must be installed on your computer in order to install, run and use Rstudio	Environment is empty
	environment is empty
7 ##dplyr : 1.0.7	
8 ##tidyverse : 1.3.1	ne entire program (Ctrl+A)
11 #Load the necessary packages each time you open Rstudio for running the program with	cocc 'Pup' (or Ctrl+Entor)
12 library("ggplot2") dllU U	ess rull (of cliftener)
13 library("dplyr")	
14 Horary(troyverse)	
	will rup optiroly
17 #SET PARAMETERS :	will full entirely.
18 #You will need to personalize the variables below with your parameters	
19 20 ##trout file (ccv) page :	Files Plots Packages Help Viewer
20 ##Input File (CSV) name. 21 #Indicate ("TO data collection France Step3 CORRECTED.csv") - here you need to replace "France" by the na	
<pre>22 input_file="T0_data_collection_France_Step3_CORRECTED.csv"</pre>	Vew Folder V Delete Rename V More V
23	C: > Users > t.laguitton > Desktop > T0_statistics_programs
24 ##verification file (csv) name :	▲ Name Size Modified
25 ##ine csv file should be saved in the same folder as the one containing your data set in csv - here you'r 26 verification file=""uns verification file csv"	1 L .
	RData 125.9 KB May 3, 2022.
28 ##Indicate the separator used for saving your Excel file in csv ("," or ";")	0 0 Rhistory 23.6 KB May 10 2021
29 separator=";"	25.0 KB Way 10, 2022
30	Rprofile 25 B May 4, 2022,
32 special albhabet="No"	🗌 🧰 Files
33	indicators
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	Programs
37	renv 🔲 renv
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🕘 T0_ind	dicators.R × Data ×	Verification × products × products_cat ×			Environment History Connections T
	🔎 🍸 Filter			Q,	😅 🕞 📰 • 🔌 253 MiB • 🎻 🛛 🗏 • 🕲 •
^	Category_name	Subcategory_name	n [‡] nx	\$	R 🔹 💼 Global Environment 👻 🔍
1	Bread products		a Britada and an and an	^	
2	Bread products	Program r	unning		Environment is empty
3	Bread products		0	og buns (n=1)	
4	Bread products				
5	Bread products	The 'TO indicators' program	can take quite a long		
6	Bread products	time (15 to 20 minutes) to m		ot dog buns (n	
7	Bread products	time (15 to 20 minutes) to r	un.		
8	Bread products				
9	Bread products	When the program is runnin	g and has not finished		
10	Bread products	ite evention a store size			
11	Bread products	its execution, a stop sign ap	pears at the top right	hamburger / h	Files Plots Packages Help Viewer
13	Bread products	of the console. This means t	hat the program is	d toasts (n=1)	🧐 New Folder 🤨 Delete 📑 Rename 👹 More
14	Breakfast cereals	running and you must not cl	ose the		guitton > Desktop > T0_statistics_programs 🕔
15	Breakfast cereals	TO statistics programs P	studio' window or the		1
Showing 1	to 16 of 78 entries 4 total col	TO_Statistics_programs – R	studio willuow of the		. In RData 125.
Showing		program will stop running.			. Rhistory 30.3
Console	Terminal × Jobs ×				🗋 🕙 .Rprofile 25 B
⊈ R 4. +	1.2 · C:/Users/t.laguitton/Des	sktop/T0_statistics_programs/Files/ ~ size=9).		([•])	📄 🧰 Files
+	legend.post	ition="none")		\smile	Indicators
++	ggsave(ggsave_la	bel,device="jpeg",width = 35,height=20,uni	ts="cm")		Programs
++++++	}				
+ }					In renv.lock 36.4
L				~	U IN_statistics_programs.kproj 218





Running of 'T0_indicators' program

🗷 T0_st	atistics_programs - RStudio					– 0 ×
File E	dit Code View Plots Sess	ion Build Debug Profile Tools Help				
• •	🔊 🚭 📲 🔚 🛛 🗩	Go to file/function				IO_statistics_programs — Desktop •
🖭 то	indicators.R* × 📃 Data ×	Verification × products × products_cat ×				Environment History Connections Tutorial
	🔊 🍸 Filter				Q,	🕣 📊 🖙 Import Dataset 🔹 😆 230 MiB 🔹 🔏 📃 List 🔹 🎯 🔹
-	Category_name	\$ubcategory_name	n [‡]	nx	\$	R 🝷 🖣 Global Environment 👻 🔍
1	Bread products	Brioches with fruit	1	Brioches with fruit (n=1)		type of bra chr [1:6] "National brand" "Ret
2	Bread products	Other breads	4	Other breads (n=4)		verificatio "wp5_verification_file.csv"
3	Bread products	Other sandwich breads / hamburger / hot dog buns	1	Other sandwich breads / hamburger	r / hot dog buns (n=1)	VN_empty "Fibre_num_empty"
4	Bread products	Plain brioches	1	Plain brioches (n=1)		working_dir "C:/Users/t.laguitton/Desktop/T
						working_dir "C:/Users/t.laguitton/Desktop/T
5	Bread products	Plain toasted breads and toasts	1	Plain toasted breads and toasts (n=1	1)	working_dir "C:/Users/t.laguitton/Desktop/T
6	Bread products	Plain white sandwich breads / hamburger /hot dog buns	7	Plain white sandwich breads / hamb	urger /hot dog buns (n	working_dir "C:/Users/t.laguitton/Desktop/T
7	Bread products	Pre-baked breads	1	Pre-baked breads (n=1)		working_dir "C:/Users/t.laguitton/Desktop/T
8	Bread products	Pre-packaged breads	8	Pre-packaged breads (n=8)		working dir "C:/Users/t.laguitton/Desktop/T
	President de la contra					v_units "a/100mL"
9	Bread products	fortilla breads and wraps	1	fortilla breads and wraps (n=1)		vlabel "Fibre (g/100mL)"
10	Bread products	Wholemeal_cereal_grains brioches	1	Wholemeal_cereal_grains brioches (r	n=1)	ylim_max 1.2
11	Bread products	Wholemeal_cereal_grains sandwich breads / hamburger / h	4	Wholemeal_cereal_grains sandwich		
12	Bread products	Wholemeal_cereal_grains sandwich breads / hamburger /ho	1	Wholemeal_cereal_grains sandwich I	End of th	e running of the program
13	Bread products	Wholemeal_cereal_grains toasted breads and toasts	1	Wholemeal_cereal_grains toasted br		
14	Breakfast cereals	Cereal flakes with chocolate_nuts	2	Cereal flakes with chocolate_nuts (n		
15	Breakfast cereals	Cereal preparation to drink	2	Cereal preparation to drink (n=2)	At the end of	the 'TO indicators' program
Showin	g 1 to 15 of 78 entries, 4 total column	ns				

Console Terminal × Jobs ×

🔞 R 4.1.2 · C:/Users/t.laguitton/Desktop/T0_statistics_programs/Indicators/11_Tables_Per cat & tob/ 🖉
> ##12lables of descriptive statistics (per subcategory and per type of brand)
> #Set working directory for 12
> working_directory12=base::paste(working_directory,"/11_Tables_Per cat & tob",sep="")
> setwd(working_directory12)
>
> #####Ligne print fin de programme
> print("All the indicator outputs should appear in the folder 'Indicators'")
[1] "All the indicator outputs should appear in the folder 'Indicators'"
>

At the end of the 'TO_indicators' program execution, you should see the **sentence highlighted in yellow** in the console.

The program exports outputs (graphs and tables) to your "**Indicators**" folder in the "" folder. *T0_statistics_programs*





After running 'T0_indicators' program

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After running 'T0_indicators' program

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



Production of indicators for data collected during T0

The outputs from the 'TO_indicators' program :

1) Study of the food supply





Production of indicators for data collected during TO

The outputs from the 'TO_indicators' program :

1) Study of the food supply

Distribution of the references collected, by subcategories (in number of references)





Production of indicators for data collected during TO

The outputs from the 'T0 indicators' program :

1) Study of the food supply

		Bread products (n=1	327)	
19)		3	2 %	
=4)			25 %	
=1)		100 %		
=6)		100 %		
=5)		100 %		
=2)	50 %		50 %	
=5)	60 %		40 %	
=6)		83 %		17 %
35)	6	7 %	21 %	1 <mark>%</mark> 11%
39) —		19 %	1 <mark>%</mark> 9%	
13) ——		15 %	15 %	
69) —		82 %		9% 1 <mark>%</mark> 8%
98) ——	52 %		28 %	20 %
19) ——		84 %		16 %
=2)		100 %		
74)		69 %	15 %	16 %
18) ——	61 %		39 %	
10) ——		70 %		30 %
=2)		100 %		
0%	25%	50%	75%	100%
	National brand	Entry level retailer brand	Specialised retailer brand	
>	Retailer brand	Hard discount	Specialised organic retaile	r brand

Proportion of the different types of brand collected, by subcategories

Plain brioches (n= Wholemeal_cereal_grains brioches (n Cream-filled brioches (n Brioches with fruit (n Chocolate brioches (n Fine bakery wares_croissants (n Fine bakery wares chocolate croissants (n Fine bakery wares other (n Plain white sandwich breads / hamburger /hot dog buns (n=* Wholemeal_cereal_grains sandwich breads / hamburger / hot dog buns (n=" Other_sandwich breads / hamburger / hot dog buns (n= Pre-packaged breads (n=5 Pre-baked breads (n=2 Tortilla breads and wraps (n= Unleavened breads (n Other breads (n= Plain toasted breads and toasts (n= Wholemeal_cereal_grains toasted breads and toasts (n= Other bread products (n

One output per category : they will be numbered « 3 in the Indicators folder



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



Production of indicators for data collected during TO

The outputs from the 'T0_indicators' program :

2) Study of the labeling parameters

Front of pack labeling







Production of indicators for data collected during T0

The outputs from the 'TO_indicators' program :

1

2) Study of the labeling parameters

Portion size

Colas without added sugar (n=147) Sugar-sweetened and artificially-sweetened colas (n=24) Sugar-sweetened colas (n=209) Tea beverages without added sugar (n=97) Sugar-sweetened and artificially-sweetened tea beverages (n=122) Sugar-sweetened tea beverages (n=278) Tonics and bitters without added sugar (n=8) Sugar-sweetened and artificially-sweetened tonics and bitters (n=8) Sugar-sweetened tonics and bitters (n=144) Flavoured waters without added sugar (n=145) Flavoured sugar-sweetened and artificially-sweetened waters (n=111) Flavoured sugar-sweetened waters (n=347) Fruit beverages with fruit content > or = 50% (n=254) Fruit beverages without added sugar (n=291) Sugar-sweetened and artificially-sweetened fruit beverages (n=236) Sugar-sweetened fruit beverages (n=1208) Vegetable beverages (n=51) Flavoured milk beverages (n=400) Plant-based beverages without added sugar (n=77) Sugar-sweetened plant-based beverages (n=98) Energy drinks without added sugar (n=57) Sugar-sweetened and artificially-sweetened energy drinks (n=36) Sugar-sweetened energy drinks (n=228) Alcohol-free beers without added sugar (n=3) Sugar-sweetened alcohol-free beers (n=68) Other beverages without added sugar (n=20) Other sugar-sweetened beverages (n=46)

Distribution of products with or without quantified portion size (per subcategory) Soft drinks (n=4713)

20 %		80 9	%	
8%		92 %		
14 %		86 %		
5 %		95 %		
20 %		80 '	%	
8 %		92.%		
1	38 %		62.%	
	7:	5 %		25 %
23 %		77	7 %	
14 %		86 %		
12 %		88 %		
20 %		80 9	%	
6%		94 %		
8 %		92 %		
18 %		82 %		Ca
14 %		86 %		
12 %		88 %		be
11 %		89 %		
96		99 %		
11 %		89 %		
9%		91 %		
8%		92 %		
5%		95 %		
		100 %		
4 %		96 %		
20 %		80 \$	%	
4 %		96 %		
%	25%	50%	75%	100%

(n=4106); 87%

(n=607); 13%

One output per category : they will be numbered « 5_ » in the Indicators folder



Production of indicators for data collected during T0

The outputs from the 'TO_indicators' program :

2) Study of the labeling parameters

Portion size

Proportion of the five most represented portion sizes among collected products, by category Fresh dairy products and desserts (n=1235)



One output per category : they will be numbered « 6.a_ » in the Indicators folder

The five most represented portion sizes are represented in the pie chart ; all other portion sizes are gather in 'Other'



Production of indicators for data collected during T0

The outputs from the 'T0_indicators' program :

2) Study of the labeling parameters

Portion size

Proportion of the five most represented portion sizes among collected products, by subcategory

Fresh dairy products and desserts : Classic plain yoghurts and fermented milks with no added sugar (n=61)



The five most represented portion sizes are represented in the pie chart ; all other portion sizes are gather in 'Other'



Production of indicators for data collected during T0

The outputs from the 'TO_indicators' program :

3) Study of the labeled nutritional values (state of play of the nutritional composition)

Category_name	Energy_kJ Ener	gy_kCal F	at	Saturated_fat	Carbohydrates	Sugar	Protein S	Salt	Fibre
Bread products									
(n=1327)	78%	96%	100%	98%	100%	99%	100%	100%	68%
Breakfast cereals									
(n=2714)	86%	96%	99%	98%	99%	98%	99%	98%	86%
Delicatessen meats									
and similar (n=5886)	83%	96%	100%	100%	100%	100%	100%	100%	19%
Fresh dairy products									
and desserts									
(n=4217)	93%	90%	100%	100%	86%	100%	100%	85%	22%
Soft drinks (n=4713)	77%	98%	97%	97%	100%	99%	97%	97%	16%

Labeling frequency, by nutrient



This output (in.csv) will be numbered « 7_ » in the Indicators folder


Production of indicators for data collected during TO

The outputs from the 'TO_indicators' program :

3) Study of the labeled nutritional values (state of play of the nutritional composition) State of play of the nutritional composition

Nutrients of interest for each category :

	Fat	Saturated fat	Sugar	Protein	Fibre	Salt
Bread products	Х	Х	Х		Х	Х
Breakfast cereals	Х	Х	Х		Х	Х
Delicatessen meats and similar	Х	х	х	х		x
Fresh dairy products and desserts	Х	Х	х	Х	Х	
Soft drinks	Х	X	х		Х	х
	Only for F milk bever Plant-based	lavoured rages and beverages				





Production of indicators for data collected during TO

The outputs from the 'TO_indicators' program :

3) Study of the labeled nutritional values (state of play of the nutritional composition)

State of play of the nutritional composition



One output per **nutrient of interest** for each **category** : they will be numbered « 8_ » in the Indicators folder



Production of indicators for data collected during TO

The outputs from the 'T0_indicators' program :

3) Study of the labeled nutritional values (state of play of the nutritional composition)





Regarding the proportion of the different type of brand collected, come back to us to decide if these analysis are relevant (not relevant if all brands are not well covered)



Production of indicators for data collected during T0

<u>The outputs from the 'T0_indicators' program :</u>

3) Study of the labeled nutritional values (state of play of the nutritional composition)

State of play of the nutritional composition

	Number of			Standard					
Sugar (g/100g)	products	Minimum	Maximum	quartile	Median	Third qua	artile Mean	deviation	
Cereal flakes with									
chocolate_nuts		54 13	1,1 3	5 19 <i>,</i>	9	22	28,2	23,5	6,4
Cereal flakes with fruit		19	7,1 2	.6 1	4 :	15,6	18	16,6	5,1
Cereal preparation to drink	:	0							
Cereals without added									
sugar		233	0 11,	,5 0,	8	1,1	1,5	1,3	1,1
Chocolate-flavoured									
cereals		212	2,1 4	0 2	2 2	24,9	28,5	24,7	5,8
Chocolate and caramel									
cereals		28	23 3	2 2	5	27	29	27,1	2,4
Crunchy chocolate muesli		232	1,6 31,	,1 1	7	21	24	20,2	5,5
Crunchy fruit muesli		321	2,3 41,	,4 1	5	19	23	19,1	6
Crunchy muesli with									
nuts_seeds		133	1,5 3	12,	4 2	17,4	20	16,2	6,2
Filled cereals		81	21 4	4 27,	5	29	34	30,4	5,2
High-fibre cereals		114	2,6 28,	,4 10,	8	14	18	13,7	6
High-fibre fruit cereals		43	2,8 3	32 14,	2	20	24	19,3	6,9
Honey/caramel cereals		180	2,2 4	8 22,	7	25	29	25,1	8
Other ready-to-eat cereals		5	2,7 22,	,6	³ Ono	output (in coul por	labolod	8,2
Sweet cereal flakes		131	3 3	5, 5,	8 0112	output (m.csv) per	lancieu	9,6
Traditional muesli flakes		885 (),4 3	9,	³ nutri	ent for e	ach catego	ry: they	7,1



will be numbered « 10 » in the

Indicators folder



4) Production of the report





Production of the report

→ Each member state will have to produce a report that will be included in the final deliverable of WP5 (D.5.3)

- All partners should have sent a version of their report by the end of November 2022
- → In the next few weeks, we will share with you (by email and on the Best-ReMaP intranet) a detailed framework to help you build the report :
 - Detailed plan
 Figures and tables to be included
 etc.
 We will guide you step by step to facilitate an harmonized production of the report

The program 'T0_indicators' will produce a large number of graphs and tables for each partner and not all of them can be presented in your reports. A selection of the indicators to be inserted in the report will be made and transmitted with all the information for the construction of your reports.

→ Some statistics could be presented at the final workshop of WP5 (Task 5.2)





5) Conclusion





Timeline of the task 5.3.2

2021 2022																			
m	j	j	а	S	0	n	d	j	f	m	а	m	j	j	а	S	0	n	d
M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24	M25	M26	M27
	Task 5.3.1 : Data collection and data treatment (data entry and encoding)July 2021 - July 2022																		
		Colle Ju	oictures i it shops - Oct 20 2	in the 21	Data treatment (data entry and encoding) Nov 2021 - May 2022 (July 2022 at the latest)														
												Task 5.3.2 : Production of statistics May 2022 - Nov 2022 (7 months)							
												Verifications steps May - July 2022 Production Aug. 2022 Sept Nov. 2022					f the 2022		
												(3 months)		(1 month)	(3 months)				
1st June Please send us feedback to confirm that the R and Rstudio software are installed If you have any problems before this date, please let us know so that we can help you End of verifications and corrections to be made These deadlines are indications so that you can organize yourselves as well as possible You should have all figures and tables ready and stored in the "indicators" file																			
	Report ready to be sent to wp5																		





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

- The data entry and encoding of the collected data must be fully completed before starting the steps of task 5.3.2
- Instructions for producing the report in step 4 will be provided in detail later
- 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.