Best-ReMaP

Healthy Food for a Healthy Future

WP 5 – REFORMULATION AND PROCESSED FOOD MONITORING

T+1 Statistics methodology (task 5.5.1)

Part 2

Anses

24.11.2022



Training for statistics on T+1 data

1st part

20th October 2022

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

2nd part

24th November 2022

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



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





1) Review of the steps in Task 5.5.1 (page 4)

2) Introduction to the creation of indicators (page 7)

- A. Explanation of the steps (page 8)
- B. Installation/update of the necessary equipment (page 13)

3) Running of the programs (page 30)

- A. Entry tables generated for statistical tests (page 31)
- B. Permutation tests (page 52)
- C. Creation of statistical indicators (page 87)

4) Production of the report (page 123)

5) Next steps (page 125)

 An evaluation questionnaire for this training will be sent to you after this meeting (as for the first part of the T+1 statistics training)





1) Review of the steps in Task 5.5.1





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

- Step 2 was detailed during the first part of the training for T+1 statistics on 20 October 2022.
- **Steps 3** will be detailed in today's training and will be done by data processing programs on the Rstudio software. 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 fully detailed during this training but you will receive all the elements so that everyone can produce a report on the analysis of his data. A sample report will be provided to ensure that the results for each country are presented in a harmonised way.





Timeline of the task 5.5.1

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2) Introduction to the creation of statistical indicators

A. Explanation of the steps (page 8)

B. Installation/update of the necessary equipment (page 13)





2) Introduction to the creation of statistical indicators

A. Explanation of the steps

B. Installation/update of the necessary equipment





Reminder of the 4 steps of verification to be carried out on your data before moving on to the creation of indicators





Explanation of the steps

Creation of indicators = 3 steps to follow in a strict order







Explanation of the steps





Explanation of the steps

Clarification:

- All R programs (verifications, permutations, T+1 indicators) have been designed to work on data entered in the templates created for the Best-ReMaP project (template for entering pre-existing data and template for data collection during Best-ReMaP).
- If you wish to use these programs in the future on data entered in different templates than those used during Best-ReMaP, modifications/adjustments will have to be made in the R program scripts.

Best-ReMaP template for entering pre-existing data

	А	В	с	D	E	F	G	н	I.	J	К	L	м	N	0	P	
1	Product code	Year	Father_pro duct_code	Country	Category_code	Category_name	Subcategory_ code	Subcategory_ name	Bar code	Brand name	Legal name	Commercial name	Flavor (when needed)	Net weight	Net weight unit (g or mL)	Portion	
2																	
3																	

Template for entering data collected during the Best-ReMaP project

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2) Introduction to the creation of statistical indicators

A. Explanation of the steps

B. Installation/update of the necessary equipment

i. Downloading a new version of R (page 14)

ii. Downloading of a new working folder for permutation tests (page 18)

iii. Updating the "T+1_statistics_program" working folder (page 21)





2) Introduction to the creation of statistical indicators

A. Explanation of the steps

B. Installation/update of the necessary equipment

i. Downloading a new version of R

ii. Downloading of a new working folder for permutation tests

iii. Updating the "T+1_statistics_program" working folder





Downloading of a new version of R

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

Follow this link and select **version 3.6.1** (which is not the latest version but a version that will be needed for the task):

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





Downloading of a new version of R

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

Follow this link and select **version 3.6.1** (which is not the latest version but a version that will be needed for the task):

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







Downloading of a new version of R

Tutorial video to download and install R version 3.6.1

→ This video is available at any time on the Best ReMaP intranet in the WP5 section <u>https://portal.nijz.si/ssf/s/readFile/folderEntry/78207/ff80808282b055810184a4dfdb5</u> <u>36336/1666364186000/lastView/R.3.6.1.mp4</u>





2) Introduction to the creation of statistical indicators

A. Explanation of the steps

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i. Downloading a new version of R

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Downloading of a new working folder

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You must download the zip folder called 'T+1_permutation_tests.zip' from the Best-ReMaP intranet and copy it on your desktop

https://portal.nijz.si/ssf/a/c/p_name/ss_forum/p_action/1/binderId/21932/entityType/folder/action/view_permalink/novl_url/1

You must unzip this folder before using it





2) Introduction to the creation of statistical indicators

A. Explanation of the steps

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i. Downloading a new version of R

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iii. Updating the "T+1_statistics_program" working folder





Updating the 'T+1_statistics_program' working folder



The working folder *T+1_statistics_programs* has been updated between the first part of the T+1 statistics training (20/10/2022) and today (24/11/2022).

You will find yourself in 2 cases:

<u>Case 1:</u> You have downloaded the working folder *T+1_statistics_programs* **before 24/11/2022** and you have already started working with it.

<u>Case 2:</u> You <u>have not</u> downloaded the working folder *T+1_statistics_programs* before 24/11/2022 or you have downloaded it but have not yet started working with it.





CASE 1

= Verification work already started before 24 Nov 2022

→ Version of the working folder *T*+1_statistics_programs copied to your desktop downloaded from the intranet dated 21 Oct 22

UPDATE OF THE WORKING FOLDER THAT IS ON YOUR DESKTOP :

1- Complete the 4 verification steps as presented in the presentation of the first part of the T+1 statistics training

2- Copy from the intranet

T+1 indicators.R

(WP5/WORKING DOCUMENTS/Files/Data analysis/T+1 statistics programs)

- Preparation_for_permutation.R
- To insert in the folder 'Programs' in the working folder 'T+1_statistics_programs' already present on your desktop
- Nutrient_of_interest.csv \rightarrow To insert in the folder 'Files' in the working folder 'T+1_statistics_programs' already present on your desktop
- **Renv.lock** \rightarrow To insert by **replacing** the file 'renv.lock' that was already present in the working folder 'T+1_statistics_programs'
- 3- Create new folders in the folders 'T+1_statistics_programs/Files' and 'T+1_statistics_programs/Indicators'
- ightarrow details of the folders to be created on the following page
- 4- Run again the 'R_setup.R' program in the Rstudio environment 'T+1_statistics_programs.Rproj'

5- Start the creation of indicators :

- 1- Preparation for permutation
- 2- Permutations
- 3- Indicators







Health Programme (2014-2020)



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T+1_permutation_test		renv.lock	55 KB Thomas L 22 Nov 2022, 14:37
T0 report frame		T+1_indicators.R	194 KB Thomas L 21 Nov 2022, 15:55
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Data collections			
Draft deliverables			

You will find on the intranet all 4 files to be copied into the working folder: <u>https://portal.nijz.si/ssf/a/c/p_name/ss_forum/p_action/1/binderId/21932/entityType/folder/action/view_permalink/novl_url/1</u>

You do not need to download the working folder 'T+1_statistics_programs' again as you already have it on your desktop!



CASE 2

= Verification work <u>not</u> started before 24 Nov 2022

→ You have not yet downloaded the working folder 'T+1_statistics_programs' or worked on it

DOWNLOAD THE LATEST VERSION OF THE WORKING FOLDER 'T+1_statistics_programs.zip' AVAILABLE ON THE INTRANET

ightarrow See next page for an overview of the working folder



1- Proceed and complete all the Verifications steps

 \rightarrow See 2022_10_20_Bestremap WP5 Statistics training_part1 –Presentation



2- Copy from the intranet

(WP5/WORKING DOCUMENTS/Files/Data analysis/T+1 statistics programs)

• T+1_indicators.R → To insert in the folder 'Programs' in the working folder 'T+1_statistics_programs'



- **3- Start the creation of indicators**
 - 1- Preparation for permutation
 - 2- T1 Permutations tests
 - 3- T+1 Indicators





WP5 Statistics training_part1

-Presentation)

Updating the 'T+1_statistics_program' working folder



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You now have 2 working folders on your desktop:

- a folder called *T+1_statistics_programs*
- a folder called *T*+1_permutation_tests





3) Running of the programs

A. Entry tables generated for statistical tests (page 31)

B. Permutation tests (page 52)

C. Creation of statistical indicators (page 87)





3) Running of the programs

A. Entry tables generated for statistical tests

B. Permutation tests

C. Creation of statistical indicators





Entry tables generated for statistical tests

Presentation of the 'Preparation for permutation' program :

- This program allows you to generate the input tables for performing statistical tests on your data. These tests will be necessary for the analysis of some of the comparison indicators.
- This program has to be run in the Rstudio environment *T+1_statistics_programs.Rproj* with R version **4.1.2**.

<u>Requirements before starting the program 'Preparation for permutation' :</u>

- Before running the program, you need to make sure that you have the final version of your template called T+1_data_collection_country_Step4_CORRECTED(X).csv in the folder 'Files' in the T+1_statistics_programs working folder that you have on your desktop.
- You need to check that the R program 'Preparation_for_permutation.R' is present in the folder 'Programs' in the *T+1_statistics_programs* working folder.
- You need to check that the excel file 'Nutrients_of_interest.csv' and the folder 'Tables_for_permutation_tests' are present in the folder 'Files' in the *T+1_statistics_programs* working folder.

Your Rstudio interface must have been cleaned up before running the program. All cleaning steps are described in the presentation of part 1 of the T+1 statistics training.









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Running of 'Preparation_for_permutation' program

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Running of 'Preparation_for_permutation' program

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Running of 'Preparation_for_permutation' program

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3 #Version of R used : 4.1.2		
4 #Rstudio needs to be used for using the program in a simpler way : it is a tool for working on R progr	ams that gi	
6		Environment is empty
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8 ##dplyr : 1.0.7 9 ##tidyverse : 1.3.1		
10 ##ggplot2 : 3.3.5	reparati	ion for permutation.R
11 12 #Load the necessary packages each time you open Rstudio for running the program with the funct		
13 library("dplyr")	p	rogram opened
14 library("tidyverse")		
16		
17 #SET PARAMETERS :		
19		Files Plots Packages Help Viewer
20 ##Input file (csv) name :		🎱 New Folder 🔍 Delete 📑 Rename 🛛 🏶 More 👻 🎯
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Co-funded by the European Union's Health Programme (2014-2020)



Running of 'Preparation_for_permutation' program

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Setting parameters for 'Preparation_for_permutation.R' program

In the "set parameters" section, you must fill in as *input_file* the name of your final template after the 4 verification programs (line 22). You must also enter the name of your pre-existing data template in csv format (line 26)

You must indicate the year in which your T+1 data was collected. If the collection was carried out in the same year, you must enter this year twice (line 34 and 37). If your collection took place in two different years, you must enter both years.

You also need to indicate the separator used in your csv file (line 49). 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 52). This field only concerns countries with a specific alphabet and is therefore pre-filled as "NO".

Example :

- input file = "T+1_data_collection_Ireland_Step4_CORRECTED(X).csv"
- Year_T1 = "2021"
- year_T1_2 = "2022"
- Separator = ";"
- Special_alphabet = "NO"





Running of 'Preparation_for_permutation' program

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1 2	########PROGRAM FOR EXPORTING ENTRY TABLES FOR PERMUTATION TESTS	A	R 🝷 🛑 Global Environment	• Q,
3 4	#Version of R used : 4.1.2 #Rstudio needs to be used for using the program in a simpler way : it is a tool fo			
5	###IMPORTANT : R software must be installed on your computer in order to install,	Select the entire	e program (O	Ctrl+A)
8	##dplyr : 1.0.7			at a w
9	##tidyverse : 1.3.1	and press Rur	1 (or ctri+Ei	nter)
10	##ggplot2 : 3.3.5			
11	#Load the perserv packages each time you open Betudio for rupping the program wi			
13	library("dplyr")	The program will rup er	ntiroly	
14	library("tidyverse")	The program will full er	itileiy.	
15				
16	ACET DADAMETERS .			
18	#You will need to personalize the variables below with your parameters			
19			Files Plots Packages	Help Viewer
20	##Input file (csv) name :		🧐 New Folder 🛛 🝳 Delete	🖶 Rename 🎡 More 👻 🕝
21	<pre>#Indicate ("T+1_data_collection_France_Step4_CORRECTED.csv") - here you need to re figure file "T-1_data_collection_France_Step4_CORRECTED.csv") - here you need to re</pre>	eplace "France" by the name of y	ers > t.laguitton > Desktop	> T+1_statistics_programs
22	input_tile= I+1_data_collection_France_Step4_CORRECIED.csv		A Name	Size
24	##Pre-existing data file (csv) name :		1.	
25	#Indicate ("Name_of_pre-existing_data_file.csv")		O D Phiston	20 KB
26	preexisting_data_file="pre_existing_data_France.csv"			29 KD
27	##Nomenclature file (csv) name :		Rprofile	25 B
29	##The csv file should be saved in the same folder as the one containing your data	set in csv	📄 🧰 Files	
30	nomenclature_file="Best-ReMaP_nomenclature.csv"		Indicators	
31				
32	##Data CONNECTION Year : ##Enter the year at which you have collected your data for Best-DeMap (replace "20	122" with "your collection year"		
34	year_T1="2022"	22 with your correction year	renv 📕 renv	
35	#Optional - if the data collection overlaps two consecutive years (example 2021-20	022), please indicate in year_2 🖕	C C renv.lock	36.4 KB
36	##TE VOIL MAVE ONLY ONE VEAD OF DATA COLLECTION INDICATE THE SAME VEAD TH VOID 7 /	C TN VODE	T+1_statistics_progr	ams.Rproj 218 B
1181:1	# (Untitled) \$	R Script 💠		
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Running of 'Preparation_for_permutation' program







Running of 'Preparation_for_permutation' program

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ration_	for_permutation.R × T1_da	ata × Nomenclature >	Preexisting_data ×	Years_of_interest ×	Subcategory_order ×	Nutrient_of_interest ×	» 🗖	Environment	History	Connections	Tutorial	-
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9	Breakfast cereals	Salt	Salt_num		or war	nings in the co	onsole	but in th	iis cas	e you h	nave t	.0
10	Breakfast cereals	Fibre	Fibre_num		tell us	so we can hel	p vou).					
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13	Delicatessen meats and similar	Sugar	Sugar_num		At the	end of the 'Pr	eparat	ion_for_	perm	utatior	ι.R′	
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}e	utils::write.csv2(tem lse if(separator=="."	np_TO_T1,file=j,ro '){	w.names=FALSE)		The pro-		S SEVEL			i the st		
	utils::write.csv(temp	o_TO_T1,file=j,row	.names=FALSE)		folder	'Tables_for_p	ermut	ation_te	sts' in	the fo	lder	
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Co-funded by the European Union's Health Programme (2014-2020)



Entry tables generated for statistical tests

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T+1_statistics_programs Ce PC	T+1_data_collection_France_Step1_VERIFIEDok.csv T+1_data_collection_France_Step2_CORRECTED(X).csv	19/10/2022 17:54 Fichier CSV Micro 1 614 Ko 03/10/2022 15:11 Fichier CSV Micro 1 466 Ko	
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Entry tables generated for statistical tests

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1 A - 11	Nom	Modifié le	Туре	Taille
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Entry tables generated for statistical tests

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Entry tables generated for statistical tests

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Entry tables generated for statistical tests





Entry tables generated for statistical tests

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11



WORK Package 5 – Reformulation and processed food monitoring

Entry tables generated for statistical tests

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T+1_permutation_tests R (3.6.1)



Entry tables generated for statistical tests



R (3.6.1)



3) Running of the programs

A. Entry tables generated for statistical tests

B. Permutation tests

C. Creation of statistical indicators





Permutation tests

Presentation of the working folder "T+1_permutation_tests" :

- In this working folder you will find a program R_setup.R and a program T1_permutation_tests.R to perform the statistical tests.
- These programs have to be run in the Rstudio environment *T+1_permutation_tests.Rproj* with R version **3.6.1**.

<u>Requirements before starting to work in the working folder "*T+1_permutation_tests*" :</u>

- You must ensure that you have downloaded **version 3.6.1** of **R** to your computer.
- You must have run the program Preparation_for_permutation.R and copied the output files of the program (from the folder *T+1_statistics_programs/Files/Tables_for_permutation_tests*) to the folder *T+1_permutation_tests/Files/01_entry_files*.
- You should also make sure that you have copied the file 'Years of interest.csv' (filled in during the verification steps) into the folder *T+1_permutation_tests/Files/01_entry_files*

Your Rstudio interface must have been cleaned up before running the program. All cleaning steps are described in the presentation of part 1 of the T+1 statistics training.











Permutation tests

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Permutation tests



T+1_permutation_tests R (3.6.1)



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









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Running of a new 'R_setup' program

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Running of a new 'R_setup' program



T+1_permutation_tests **R (3.6.1**)



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



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	been installed successfully.
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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/s/readFile/folderEntry/78208/ff80808282b055810184a4e09</u> <u>d73633c/1666364889000/lastView/Restup_permutations.mp4</u>




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Running of 'T1_permutation_tests' program

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Setting parameters for 'T1_permutation_tests.R' program

In the "set parameters" section (line 58), You will not have to specify a specific input file, the files will be searched automatically in the folders by the R program.

You must indicate the year in which your T+1 data was collected. If the collection was carried out in the same year, you must leave the "NULL" entered for the *year2_T1_data_collection* (line 68). **This is different from other programs!** If your collection took place in two different years, you must enter both years (line 66 and 68).

You also need to indicate the separator used in your csv file (line 49). 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 52). This field only concerns countries with a specific alphabet and is therefore pre-filled as "NO".

Example :

- year_T1_data_collection = "2021"
- year2_T1_data_collection = NULL
- Separator = ";"
- Special_alphabet = "NO"





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4	#VEISION OF K USEU . 5.0.1		
5	#Rstudio needs to be used for using the program in a simpler way : it is a tool for wo	king on R programs that giv	Environment is empty
6	###IMPORTANT : R software must be installed on your computer in order to install, run a	and use Rstudio	
8	#Version of packages used		
9	#plyr : 1.8.6		
10	#lattice : 0.20-44		
11	# <u>doga</u> ta : 2.18.0.1		
13	#reshape2 : 1.4.4	Select the ei	ntire program (Ctrl+A)
14	#survey : 4.1-1		
15	#microbenchmark : 1.4-7	and press	'Run' (or Ctrl+Enter)
10	#KSUTTE : 2.2.7 #R6 : 2.5.1		num (or cerri Enter)
18	#manipulate : 1.0.1		
19	#gtable : 0.3.1		
20	# <u>GrideXtra</u> : 2.3 #striper : 1 A 1	The program will r	un entirely.
22	#coin : 1.4-1		
23	# <u>multcomp∨iew</u> : 0.1-8		Rprofile 27 B
24	#moments : 0.14.1		📄 🧰 Files
26	#vegan : 2.5-7 #nlme : 3.5-152		Programs
27			
28	# Deactivate the warnings for running the packages library below		
29	options(warn=-1)		
31		•	T+1_permutation_tests.Rproj 218 B
32		4	
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Running of 'T1_permutation_tests' program

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Running of 'T1_permutation_tests' program

T+1_permutation_tests - RStudio

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🔍 T1_p	ermutation_tests.R ×	Years_of_interest ×			
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*	Category_code	Category_name	Year_of_interest_1 +	Year_of_interest_2	
1	18	Bread products	2020	2020	
2	1	Breakfast cereals	2019	2020	
3	5	Delicatessen meats and similar	2018	2018	
4	3	Fresh dairy products and desserts	2020	2020	
5	9	Soft drinks	2020	2020	
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Console	1 to 5 of 5 entries, 4 to Terminal × Jo 3.6.1 · C:/Users/t.lagu	tal columns 35 × itton/Desktop/T+1_permutation_tess	ts/Files/ A		

After running the program

Several tables appear next to the R program script. These tables are working tools for the R program but you don't need to look at them (only if there are errors or warnings in the console but in this case you have to tell us so we can help you).

At the end of the 'T1_permutation_tests.R' program execution, you should see the **sentence highlighted in yellow** in the console.

The program exports several excel files in the subfolders '02_outputs_subgroups', '03_outputs_paired', '04_working_documents' in the folder 'Files' of the working folder T+1_permutation_tests.



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Results of permutation tests

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← → · ↑ <mark>·</mark> > T+1_permut	ation_tests > Files			✓ ♂ P Rechercher dans : Files	
🕂 Téléchargements 🛛 🖈 '	^ Nom	Modifié le	Type Taille		
🔮 Documents 🛛 🖈	01_entry_files	18/11/2022 17:00	Dossier de fichiers		
📰 Images 🛛 🖈	02_outputs_subgroups	21/11/2022 11:36	Dossier de fichiers		
Permutation tests	03_outputs_paired	21/11/2022 11:36	Dossier de fichiers		
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> 🔮 Documents					
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> 🁌 Musique			soveral exce	al files in the sub-folders	
> 🧊 Objets 3D			Several Exce		
> 🕂 Téléchargements			'02_output	s_subgroups', '03_outputs_paired',	
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> 🏪 Windows (C:)					
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> 🛖 transferts (K:)					1
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> 👳 Sastmp sur salf0036 (S:)			The	files in folder '04_working_documents'	
> 👳 TRANSVERSAL (T:)			are files gen	erated and used by the R proaram but they have	
> 👳 Sastmp sur sas-pp-calc1 (U:)			no int	erest (they are only intermediate outputs)	
🗸 💣 Réseau					1
> 💻 NALF1026					
4 élément(s) 3 éléments sélection	nés				



81



Results of permutation tests

📙 📝 📑 🗢 02_outputs_subgroups							- 0	×
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← → × ↑ 🔒 > T+1_permutat	ion_tests > Files > 02_outputs_subgroups				~ ē		2_outputs_subgroups	
🕂 Téléchargements 🛛 🖈 ^	Nom	Modifié le	Туре	Taille				^
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📰 Images 🛛 🖈	Bread products_Energy_kCal_final_results	21/11/2022 11:36	Fichier CSV Micro	3 Ko				
Permutation tests	Bread products_Fat_final_results_tests_su	21/11/2022 11:36	Fichier CSV Micro	3 Ko				
Preparation permutation test	Bread products_Fibre_final_results_tests_s	21/11/2022 11:36	Fichier CSV Micro	3 Ko				
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> 🤜 Bureau	Breakfast cereals_Carbohydrates_final_res	21/11/		alle a second de la companya	C :1 (Constant the set	- Colden	
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> 🏪 Windows (C:)	Delicatessen meats and similar_Carbohy	^{21/11/} +bc	data (TO	and T1) nor	catago	ry and por r	utriont	
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40 élément(s)								



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Results of permutation tests

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Permutation tests	Bread products_Fat_final_results_tests_pa	21/11/2022 11:36	Fichier CSV Micro	1 Ko			
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	Delicatessen meats and similar_Salt_final	21/11/2022 11:36	Fichier CSV Micro	1 Ko			
> TRAINSVERSAL (1:)	Delicatessen meats and similar_Saturated	21/11/2022 11:36	Fichier CSV Micro	1 Ko			
> 🛫 Sastmp sur sas-pp-calc1 (U:)	Delicatessen meats and similar_Sugar_fin	21/11/2022 11:36	Fichier CSV Micro	1 Ko			
🗸 🎒 Réseau	Fresh dairy products and desserts_Carbo	21/11/2022 11:36	Fichier CSV Micro	1 Ko			
> NALF1026	Fresh dairy products and desserts_Energy	21/11/2022 11:36	Fichier CSV Micro	1 Ko			
	Fresh dairy products and desserts_Fat_fin	21/11/2022 11:36	Fichier CSV Micro	1 Ko			
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Results of permutation tests





Results of permutation tests

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🕈 Accès rapide	Files	20/11/2022 23:32	Dossier de fichiers								
🔜 Bureau 🛛 🖈	Indicators	09/08/2022 16:57	Dossier de fichiers								
🕂 Téléchargements 🛛 🖈	Programs	20/11/2022 23:05	Dossier de fichiers								
🔮 Documents 🛛 🖈	renv	09/08/2022 15:52	Dossier de fichiers								
📰 Images 🛛 🖈	Rhistory	20/11/2022 23:17	Fichier RHISTORY	29 Ko							
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Preparation permutation test	renv.lock	04/05/2022 10:01	Fichier LOCK	37 Ko							
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Results of permutation tests

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🕂 Téléchargements	*	Tables_for_permutation_tests	20/11/2022 23:33	Dossier de fichiers			
Documents	*	🗟 Best-ReMaP_nomenclature.csv	12/07/2022 16:48	h shier CSV Mic	24.8		
📰 Images	*	🔊 Brand_names_extraction.csv	19/10/2022 14:51	Fichier CSV Mic	02_outp	outs_subgroups	
Permutation tests		Nutrient_of_interest.csv	10/11/2022 17:37	Fichiel CSV Mic	02		
Preparation permutati	on test	🔊 pre_existing_data_France.csv	14/10/2022 16:53	Fichier CSV Mic	OS_OUTP	outs_paired	
Programs		🔊 Subcategory_order.csv	30/09/2022 11:11	Fichier CSV Micro	9 6	rom : T+1 permutation tests/Files	
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I+I_permutation_test		T+1_data_collection_France_Step1_CORRECTED(X).csv	10/10/2022 17:04	Fichier CSV Micro	1 459 Ko		
Ce PC		T+1_data_collection_France_Step1_VERIFIED.csv	10/10/2022 17:13	Fichier CSV Micro	1 614 Ko		
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Documents		T+1_data_collection_France_Step2_CORRECTED(X).csv	03/10/2022 15:11	Fichier CSV Micro	1 466 Ko		
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images		T+1_data_collection_France_Step3_CORRECTED(X).csv	14/10/2022 11:35	Fichier CSV Micro	1 453 Ko		
J Musique		T+1_data_collection_France_Step3_VERIFIED.csv	13/10/2022 10:27	Fichier CSV Micro	1 606 Ko		

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Windows (C:)
 Siege (I:)

Vidéos

- > 👳 transferts (K:)
- > 👳 DER (L:)
- > 👳 Sastmp sur salf0036 (S:)
- > 👳 TRANSVERSAL (T:)
- > 👳 Sastmp sur sas-pp-calc1 (U:)

T+1_statistics_programs

R (4.1.2)

20 élément(s) 2 éléments sélectionnés

What to do with the output files from the subfolders '02_outputs_subgroups' and '03_outputs_paired'

→ In the folder T+1_statistics_program/Files, you have to copy the 2 subfolders '02_outputs_subgroups' and '03_outputs_paired' (with all their files) that were output in the folder T+1_permutation_tests/Files with the R program 'T1_permutation_tests.R'





3) Running of the programs

A. Entry tables generated for statistical tests

B. Permutation tests





Creation of statistical indicators

Presentation of the 'T+1 indicators' program :

- This program allows you to create the T+1 indicators and output the graphs and tables that you will use in your report.
- This program has to be run in the Rstudio environment 'T+1_statistics_programs.Rproj' with R version
 4.1.2.

<u>Requirements before starting the program 'T+1_indicators' :</u>

- Before running the program, you must ensure that you have run the programs preparation_for_permutation.R and T1_permutation_tests.R.
- You need to check that the R program T+1_indicators.R is present in the folder '**Programs**' in the *T+1_statistics_programs* working folder.
- You should also make sure that the folders **"02_outputs_subgroups"** and **"03_outputs_paired"** with the output files of the permutation tests have been copied to the folder *T+1_statistics_programs/Files*.

Your Rstudio interface must have been cleaned up before running the program. All cleaning steps are described in the presentation of part 1 of the T+1 statistics training.











→ * ↑ → I+1_statistics_	programs				~	, C	∠ Rech	ercher dans :	I+1_statistics_proc	rams
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Accès rapide	Files	21/11/2022 14:54	Dossier de fichiers							
Bureau 🖈	Indicators	21/11/2022 15:06	Dossier de fichiers							
🕂 Téléchargements 🛛 🖈	- Programs	20/11/2022 23:05	Dossier de fichiers							
🔮 Documents 🛛 🖈	renv	09/08/2022 15:52	Dossier de fichiers							
📰 Images 🛛 🖈	.Rhistory	20/11/2022 23:17	Fichier RHISTORY	29 Ko						
Permutation tests	🧾 .Rprofile	04/05/2022 10:39	Fichier RPROFILE	1 Ko						
Preparation permutation test	📋 renv.lock	04/05/2022 10:01	Fichier LOCK	37 Ko						
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Creation of statistical indicators

R T+1_statistics_programs - RStudio

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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) T+1 statistics programs

R (4.1.2)



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



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WORK Package 5 – Reformulation and processed food monitoring

Running of 'T+1_indicators' program

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

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12	#Load the necessary packages each time you open Rstudio for running the program with the funct	tions belo	DW			
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14	library("todyverse")					
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18	#SET PARAMETERS : #You will need to personalize the variables below with your parameters			Files Plots	Packages Help Vie	wer 👝 🗖
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21	##Input file (csv) name:		-	ers > t.laguitte	on > Desktop > T+1_statis	tics_programs 🔳
22	<pre>#Indicate ("T+1_data_collection_France_Step4_CORRECTED.csv") - here you need to replace "France input file_"I1_data_collection_France_Step4_CORRECTED.csv")</pre>	nce" by the	e name of y	A Na	me	Size
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<pre>#Set Parameter and the personalize the variables below with your parameter ##Input file (csv) name : ##Input file (csv) name : #Indicate ("T+1_data_collection_France_Step4_CORRECTED.csv") - here input_file="T+1_data_collection_France_Step4_CORRECTED.csv" ##Pre-existing data file (csv) name : ##Pre-existing data_file="preexisting_data_file.csv" preexisting_data_file="Preexisting_data_file.csv" ##Verification file (csv) name : ##The csv file should be saved in the same folder as the one conta verification_file="wp5_verification_file.csv" ##Nomenclature file (csv) name : ##Nomenclature_file="Best-ReMap_nomenclature.csv" ##Data collection year : ##Enter the year at which you have collected your data for Best-Ref year_T1="2022" ##Optional if the data collection overlaps two consecutive years ##If the Source over the same folder the same folder as the same folder as for Best-Ref year_T1="2022" ##Wortional if the data collection overlaps two consecutive years ##If the Source over the same folder the same folder as for Best-Ref ##If the folder for Best-Ref for Bota CollectION, INDICATE THE SAME for Best-Ref ##If the same folder best-Ref ##If the folder folder for Best-Ref ##If the folder folder folder for Best-Ref ##If the folder f</pre>	In the "set parameters" section, you must fill in as <i>input_file</i> the name of your final template after the 4 verification programs (line 23). You must also enter the name of your pre-existing data template in csv forma (line 27) You must indicate the year in which your T+1 data was collected. If the collection was carried out in the same year, you must enter this year twice (line 39 and 42). If your collection took place in two different years, you must enter both years. You must also indicate the separator and if you have a specific alphabet as in the verification programs.
42 year_T1_2="2022" 43 44 ##Years of interest file :	Example :
<pre>45 years_or_interest_inter years of interest.csv 46 47 ##Subcategory_order_file : 48 subcategory_file_order="Subcategory_order.csv" 49 50 #Nutrient_of_interest file : 51 nutrient_of_interest_file="Nutrient_of_interest.csv" #should com 52 53 ##Indicate the separator used for saving your Excel file in csv (" 54 congrater=""""""""""""""""""""""""""""""""""""</pre>	 Input_file = "T+1_data_collection_Ireland_Step4_CORRECTED(X).csv" Year_T1 = "2021" year_T1_2 = "2022" Separator = ";"
<pre>55 ##If you have used a specific alphabet (greek, etc) in your templa: 57 special_alphabet="NO" 58</pre>	Special_alphabet = "NO"
	→ There is no output file to set up here as the program outputs are
61 (automatically named and stored in the 'Indicators' folder of the
59:1 (Top Level) \$	'T+1 statistics programs' folder on your desktop.
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Running of 'Preparation_for_permutation' program

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Precision on the "set parameters" section of the program and the 'Nutrient_of_interest.csv' file

In the "Set parameters" section, you can see that the support file 'Nutrient_of_interest.csv' is imported (previous page, line 46 of the R program).

This file is already present in the working folder *T+1_statistics_program* that you downloaded on your desktop in the subfolder '**Files**' (or you must have copied it to this folder).

This file is already filled in and indicates the nutrients of interest (for the comparison of nutritional values) for the 5 categories studied in the Best-ReMaP project.

If you wish to study other Best-ReMaP categories outside the 5 categories prioritised for the Best-ReMaP project, you will have to indicate them in this file on the same model as for the other categories: one line per nutrient of interest + the name of the category on each line.

















Running of 'T+1_indicators' program

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^	Category_name	Nutrient_of_interest	Nutrient_of_interest_num	*			R 👻 🛑 Globa	l Environment 💌	Q,		
1	Bread products	Fat	Fat_num			<u>^</u>	Data				
2	Bread products	Saturated_fat	Saturated_fat_num				BR_catego	10 obs. of 1	variable		
3	Bread products	Sugar	Sugar_num				O BR_catego	10 obs. of 2	variables	<u>ن</u>	
4	Bread products	Salt	Salt_num				Cat_paire	d 2 obs. of 1	/ariable		
5	Bread products	Fibre	Fibre_num				Categorie	5 6 obs of 1	variable		
6	Breakfast cereals	Fat	Fat num				O Collectio	n 202 obs. of :	L variable	e	
7	Breakfast cereals	Saturated fat	- Saturated fat num				O data_tota	1 212 obs. of	32 variab]	les 🔲	
8	Breakfast cereals	Sugar	Sugar num				🚺 data_tota	212 obs. of	3 variable	es 📖	
9	Breakfast cereals	Salt	Salt num				O Errors	5 obs. of 2	/ariables		
10	Breakfast cereals	Fibre	Eibre num				Father_pr	172 obs. of	5 variable	as 🔲 🔻	
11	Delicatessen meats and similar	Fat	Fat num		[<u> </u>			
	Deneatessen meats and similar	100				End of the ru	nning c	of the pro	ogran	n	
Showing 1	to 12 of 23 entries, 3 total column	s					Ŭ		Ŭ		
Console	Terminal × Jobs ×										
🕞 R 4	1,2 · C:/Users/t.laguitton/Desktor	p/T+1 statistics programs/Ir	ndicators/13 Tables Mean value	es/ 🖈		At the end of the 'T+1 indicators.R' program					
> outp	ut_csv<-base::paste("	13_Summary evolut	ion of mean values'	","_",i,"_Fat an	d Sat_fat",".csv'	v ovocution you should soo the contance					
> #Con	erate the cay file					execution, you should see the sentence					
> if (s	eparator==";"){					highlighted in yello	w in the	console.			
+ ut	<pre>ils::write.csv2(temp, if(separator==""){</pre>	file=output_csv,r	a="",row.names=FALS	SE)							
+ geise ((Separator== ,){ + utils::write.csv(temp,file=output_csv,na="",row.names=FALSE)								, ,			
+ }						The program export	ts output	s (graphs a	nd tab	les)	
>						to the folder 'Indica	itors ' in t	he working	g folder	r	
> #### > prin	#Last line of the pro t("All the indicator	gram outputs should an	pear in the folder	'Indicators'")		T11 statistics			,		
[1] "A	11 the indicator outp	uts should appear	in the folder 'Ind	dicators'"		i+1_statistics_prog	grams				
>					L	· · · · · · · · · · · · · · · · · · ·					



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



						•	
Accès ranide	Nom	Modifié le	Туре	Taille			
Puropu	Files	21/11/2022 14:54	Dossier de fichiers				
Tíléshannanta 🔺	Indicators	21/11/2022 15:55	Dossier de fichiers				
leiechargements 💉		20/11/2022 23:05	Dossier de fichiers				
Documents 🖈	renv	09/08/2022 15:52	Dossier de fichiers				
🛛 Images 🛛 🖈	Rhistory	21/11/2022 15:13	Fichier RHISTORY	29 Ko			
Permutation tests	III .Rprofile	04/05/2022 10:39	Fichier RPROFILE	1 Ko			
Preparation permutation test	renv.lock	04/05/2022 10:01	Fichier LOCK	37 Ko			
Statistical indicators	🛎 T+1_statistics_programs.Rproj	21/11/2022 15:13	R Project	1 Ko			
T+1_statistics_programs							
Ce PC							
Bureau							
Documents							
Images							
Musique							
Objets 3D							
Téléchargements							
Vidéos							
Windows (C:)			You will need to go to the folder				
Siene (II)			100	thin need			
siege (i.)			'Ind	icators' ir	h the v	WO	rking folder
transferts (K:)					- the		
DER (L:)				T+1 stat	istics	nra	oarams
Sactrop cur calf0026 (Si)							- gi anns
Sastrip sur saliooso (S:)							
DER (L:)			T+1_statistics_programs				



Running of 'T+1_indicators' program

📙 🛛 🔁 🔜 🗢 🖡 Indicators			– a ×					
Fichier Accueil Partage Affichage								
← → * ↑ → Ce PC > Bureau > T+1_statistics_programs > Indicators ✓ ♂ Pc hercher dans: Indicators								
	Nom	Modifié le	Type Taille					
🗸 🖈 Accès rapide	6 Comparison quantified nortion size by subc	18/11/2022 17:03	Dossier de fichiers					
🔜 Bureau 🛛 🖈	7 Comparison portion size distribution	18/11/2022 17:03	Dossier de fichiers					
🕂 Téléchargements 🛛 🖈	9 Boxplots Per categories	21/11/2022 15:56	Dossier de fichiers					
🖆 Documents 🛛 🖈	10. Boxplots paired products Per categories	21/11/2022 15:07	Dossier de fichiers					
📰 Images 🛛 🖈	11 Nut.content paired products Per subc	21/11/2022 15:56	Dossier de fichiers					
	12 Tables Desc statistics	21/11/2022 15:56	Dossier de fichiers					
V Q Ce PC	13_Tables_Mean_values	21/11/2022 15:56	Dossier de fichiers					
> 📃 Bureau	1_Comparison_T0_T1 (per category).jpeg	21/11/2022 15:55	Fichier JPEG 167 Ko					
> 🔮 Documents	1_Years_T0_T1.csv	21/11/2022 15:55	Fichier CSV Micro 1 Ko					
> 📰 Images	2.a_Distribution comparison - Bread products.jpeg	21/11/2022 15:55	Fichier JPEG 149 Ko					
> 🁌 Musique	3.aFood offer analysis_Bread products.jpeg	21/11/2022 15:55	Fichier JPEG 242 Ko					
> 🚺 Objets 3D	3.bFood offer analysis_Breakfast cereals.jpeg	21/11/2022 15:55	Fichier JPEG 249 Ko					
Téléchargements	3.cFood offer analysis_Delicatessen meats and similar.jpeg	21/11/2022 15:55	Fichier JPEG 250 Ko					
Vidéos	3.dFood offer analysis_Fresh dairy products and desserts.jpeg	21/11/2022 15:55	Fichier JPEG 259 Ko					
	3.eFood offer analysis_Soft drinks.jpeg	21/11/2022 15:55	Fichier JPEG 239 Ko					
> 🔛 Windows (C:)	3.fFood offer analysis_Baby food.jpeg	21/11/2022 15:55	Fichier JPEG 234 Ko					
> 🛖 Siege (l:)	4_Proportion products w. or without fop labeling (per category).jpeg	21/11/2022 15:55	Fichier JPI In the folder (Indicators' you					
> 👳 transferts (K:)	5_Comparison quantified portion size, by category.jpeg	21/11/2022 15:55	Fichier JPI III LITE TOTALET INDICATORS , you					
> 🛖 DER (L:)	8_Comparison labeling frequency (by nutrient).csv	21/11/2022 15:55	Fichier CS will find the subfolders and					
> 👳 Sastmp sur salf0036 (S:)			will fille subfolders alle					
> 👳 TRANSVERSAL (T:)			files containing the graphs					
Sastmp sur sas-pp-calc1 (U:)			mes containing the graphs					

- 🗸 🍎 Réseau
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- > 💻 NALF0062
- > NALF0104
 - T+1_statistics_programs R (4.1.2)



:::: 🖿

and tables created by the

'T+1_indicators.R' program


Creation of statistical indicators

Examples of output from the *T*+1_indicators.*R* program (graphs and tables)





COMPARISON OF THE DATA COLLECTIONS

- For each country :
 - Comparison of the number of reference collected per category





COMPARISON OF THE DATA COLLECTIONS

- For each country :
 - Comparison of the number of reference collected per category
- <u>1 Years TO T1.csv</u>

Category name	T0 data collection year	T1 data collection year
Bread products	2020	2022
Breakfast cereals	2019-2020	2022
Delicatessen meats and similar	2018	2022
Fresh dairy products and desserts	2020	2022
Soft drinks	2020	2022

This output (in .csv) will be numbered « 1_ » in the Indicators folder

Comparison of the distribution of the references collected,

COMPARISON OF THE DATA COLLECTIONS

- For each country and for each category:
 - Comparison of the distribution of collected references (by subcategory)





DEFINITION OF BEST-REMAP'S GROUPS

→ Necessary for characterizing the food offer at T1

Groups based on the pairing of products (with father product codes) and on the nutritional values comparison from T0 and T+1 data Parameters other than nutritional values (FOP labels, portion sizes, etc) are not taken into account here

Products removed from the market:

Products which are present at T0 (=pre-existing data) but absent at T+1 (removed products or products which have not been collected at T+1)

New products:

Products which are not present at T0 but present at T+1 (new products or products which have not been collected at T0)

Identical products :

Products which have been collected at T0 and at T+1 and presenting exactly identical nutritional values (on common nutrients)

Reformulated products :

Products which have been collected at T0 and at T+1 with at least one <u>nutritional value</u> which has evolved between both years, regardless of the nutrient (on common nutrients)



EVOLUTION OF THE FOOD OFFER – COMPARISON OF THE DATA COLLECTIONS

- For each country and for each category:
 - Analysis of the food offer at T1



STUDY OF THE LABELING PARAMETERS

Front of pack labeling

Only for the T+1 data, characterization of the FOP labeling

- For each country :
 - Distribution of the presence or absence of front of pack labeling (per category) Proportion of T1 collected products with or without front of pack labeling, by category





EVOLUTION OF THE LABELING PARAMETERS Portion size

- For each country :
 - Comparison of the proportion of products with or without quantified portion size, by category

Comparison of the proportion of collected products with or without



- Comparison of the proportion of products with or without quantified portion size, by subcategory
- Comparison of the portion size distribution, when available



• For each country:

Comparison of the labeling frequency (by nutrient) : particularly for fibres

			А			В	С	D	E		F		G			
1	Category_	name				Fat.T0	Fat.T1	Fat.delta	Satu	rated_fat.T0	Saturated_fa	t.T1 Saturate	ed_fat.delta			
2	Bread pro	ducts (T0 : n=	0 ; T1 : n=1327	7)		-	100%	-	-			98% -				
3	Breakfast	cereals (T0 : r	n=204 ; T1 : n=	2714)		100%	99%	-1	6	100%		98%	-2%			
4	Delicates	sen meats an	d similar (TO :	n=132 ; T1 : n	=5886)	100%	100%	0	%	100% 100		.00%	0%			
5	Fresh dair	ry products ar	d desserts (T	0 : n=147 ; T1	: n=4217)	100%	100%	0	0% 100%		1	.00%	0%			
6	Soft drink	s (T0 : n=305 ;	T1 : n=4713)			89%	97%	8	%	89%	89%		8%			
7																
	н	I J K L		M	N	()	Р	Q	R	S					
Su	gar.TO	Sugar.T1	Sugar.delta	Protein.T0	Protein.T1	Protein.de	elta Salt.TO	Salt.T	L	Salt.delta	Fibre.T0	Fibre.T1	Fibre.delta			
-		99%	-	-	100	% -	-		100%	-	-	68%	-			
	100%	98%	-2%	100%	99	%	-1%	100%	98%	-2%	95%	86%	-9%			
	100%	100%	0%	100%	100	%	0%	100%	100%	0%	8%	19%	11%			
	100%	100%	0%	100%	100	%	0%	100%	85%	-15%	17%	22%	5%			
	99%	99%	0%	89%	97	%	8%	94%	97%	3%	19%	16%	-3%			

This output (in .csv) will be numbered « 8_ » in the Indicators folder





Evolution 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		х
Fresh dairy products and desserts	х	х	х	х	х	
Soft drinks	X	x	х		х	х
	Only for m based b	ilk and plant everages				





Evolution of the nutritional composition

- For each country, category and nutrient of interest (cf. table) :
 - Comparison of the evolution in distribution (between subcategories) for the whole offer (T0 vs T+1)

Fibre distribution among subcategories by data collection Breakfast cereals (n=2535)



Comparison of the evolution in distribution and mean values (between subcategories) for paired products (T0 and T+1)



Evolution of the nutritional composition





Evolution of the nutritional composition

- For each country, category and nutrient of interest (cf. table) :
 - Comparison of the evolution of the descriptive statistics (by subcategory and by nutrient of interest)

	A	В	С	D	E	F	G	н	I	J	к	L	M	N	0	Р	Q	R	S	Т
1	Sugar (g/100	Number of p	Minimum.TO	Maximum.T(First quartile	Median.TO	Third quartil	Mean.TO	Standard de	Number of p	Minimum.T1	Maximum.T	First quartil	Median.T1	Third quartil I	Mean.T1	Standard de	Mean value	Mean value	evolution (%)
2	Chocolate-fl	25	2,1	37	22	24,9	31	24,8	8,7	212	2,1	40	22	24,9	28,5	24,7	5,8	-0.1	-0.004 %	
3	Chocolate a	2	27	29	27,5	28	28,5	28	1,4	28	23	32	25	27	29	27,1	2,4	-0.9	-0.03 %	
4	Honey/carai	9	24,7	32	24,8	25	27	26,7	3,1	180	2,2	48	22,7	25	29	25,1	8	-1.6	-0.06 %	
5	Filled cereal	11	21,4	44	28	32,5	35	32,4	6,7	81	21	44	27,5	29	34	30,4	5,2	-2	-0.06 %	
6	Sweet cerea	7	9,1	37	9,8	11,9	19,6	16,7	11	131	3	37	5,8	9,1	17	12,9	9,6	-3.8	-0.2 %	
7	Cereal flake:	1	25,9	25,9	25,9	25,9	25,9	25,9		19	7,1	26	14	15,6	18	16,6	5,1	-9.3	-0.4 %	
8	Cereal flake:	7	11,1	35	16,5	21,8	28,5	22,6	8,7	54	11,1	35	19,9	22	28,2	23,5	6,4	0.9	0.04 %	
9	Traditional r	89	0,8	31,7	6,8	15	24	15,3	9	885	0,4	33	9,3	14	19,7	14,3	7,1	-1	-0.07 %	
10	Crunchy frui	16	10	33	17,8	21,5	23,8	21,9	6,4	321	2,3	41,4	15	19	23	19,1	6	-2.8	-0.1 %	
11	Crunchy mu	5	17,4	20,5	19	19	20	19,2	1,2	133	1,5	35	12,4	17,4	20	16,2	6,2	-3	-0.2 %	
12	Crunchy cho	18	17	28,1	21	22,6	24	22,6	2,6	232	1,6	31,1	17	21	24	20,2	5,5	-2.4	-0.1 %	
13	Cereals with	3	0,4	2,9	0,9	1,4	2,1	1,6	1,3	233	0	11,5	0,8	1,1	1,5	1,3	1,1	-0.3	-0.2 %	
14	High-fibre ce	10	11	27	13	15,5	19,4	16,4	5	114	2,6	28,4	10,8	14	18	13,7	6	-2.7	-0.2 %	
15	High-fibre fr	1	24,8	24,8	24,8	24,8	24,8	24,8		43	2,8	32	14,2	20	24	19,3	6,9	-5.5	-0.2 %	
16	Cereal prepa	0								0										
17	Other ready	0								5	2,7	22,6	3	6,4	9,8	8,9	8,2			
18																				

One output (in .csv) per category and per nutrient of interest : they will be numbered « 12_ » in the Indicators folder





Evolution of the nutritional composition

- For each country, category and nutrient of interest (cf. table) :
 - Summary of the evolution of mean values (by subcategory and by nutrient of interest)

1 Sul 2 Col 3 Sug	ibcategory plas withou	Sugar.All_proSugar	All_pr(Sugar.All_p	or Sugar Paired		1											
2 Co 3 Sug	olas withou			on ougain an ee	Sugar.Paire	d Sugar.Paired	Salt.All_proc	Salt.All_pr	oc Salt.All_proc	Salt.Paired_	Salt.Paired	Salt.Paired	Fibre.All_pro	Fibre.All_p	orcFibre.All_p	orcFibre.Paired	Fibr
3 Su		0,1					0,02	-0.03	-0.6 %				0,1				
	igar-sweet	4,4 0.1	0.02 %				0,02						0				
4 Su	ıgar-sweet	9,9 -1.2	-0.1 %				0,02	0.02									
5 Tea	a beverag	1,6 1.6*					0,03	-0.06*	-0.7 %				One	e outp	ut (in .c	csv) per	
6 Su	ıgar-sweet	4,3 -0.8*	-0.2 %				0,07	0.04	1.33 %				cat	ogory	• thou	will bo	
7 Su	ıgar-sweet	6,4 -1*	-0.1 %				0,06	0.01	0.2 %				Lai	eguiy	. they	will be	
8 Tor	nics and b	0,1					0,02						num	bered	«13	» in the	
9 Su	ıgar-sweet	5,2					0										
10 Su	ıgar-sweet	8,6					0,01							Indica	tors fol	der	
11 Fla	avoured w	0	0				0,02										_
12 Fla	avoured su	4,2 -1.6*	-0.3 %				0,01	-0.03	-0.8 %				0				
13 Fla	avoured su	7,2 -3.8	-0.3 %				0,36	0.33	11%				0,1				
14 Fru	uit bevera	7,2 -4.3	-0.4 %				0,01	0.01					0,6				
15 Fru	uit bevera	2,5 1.7*	2.1 %				0,03	-0.06**	-0.7 %				0,2				
16 Sug	ıgar-sweet	4,9 -0.4	-0.08 %				0,06	0.05	5%				0		0		
17 Su	igar-sweet	8,1 -1.2**	* -0.1%				0,02	0.01	1%				0,1	-0.3**	-0.8 %		
18 Ve	egetable b	8,5 -0.7	-0.08 %				0,08	0.03	0.6 %				1,1	-0.1	-0.08 %		
19 Fla	avoured m	8,8 0.2	0.02 %				0,14	0.01	0.08 %				0,6	0.1	0.2 %		
20 Pla	ant-based	4,4 -0.2	-0.04 %	0	-1.9	-1%	0,11		0 0%	0,07	-0.06	-0.5 %	0,9	0.5	1.2 %	0,6 (0.5
21 Su	ıgar-sweet	4,8 0.7	0.2 %				0,13	0.02	0.2 %				0,5		0 0	%	
22 En	ergy drink	2,7 2.7					0,1	0.05	1%				0,4	0.4			
23 Su	ıgar-sweet	6,6 0.4	0.06 %				0,1		0 0%				0		0		
24 Su	ıgar-sweet	9,6 -1.6*	-0.1 %				0,08	-0.03	-0.3 %				0		0		
25 Alc	cohol-free	3					0,04						0,1				
26 Su	igar-sweet	6,4					0,02						0,1				
27 Ot	ther bever	2,2 2.2					0,06	0.02	0.5 %				0,1				
28 Ot	ther sugar-	6,8 -0.2	-0.03 %				0,13	0.13					0				
20	_															100	



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 April 2023
- → 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 'T+1_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) Next steps





Timeline of the task 5.5.1



Next steps



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

- The program "T+1_indicators.R" will be made available on the intranet as soon as possible and you will be notified when this is done.
- Instructions for producing the report (step 4) and a report template 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 5.5.1, you can contact us at: wp5_bestremap@anses.fr
 We will also be able to hold individual meetings to best assist you during this task.
- An evaluation questionnaire for this training will be shared with the training meeting minutes (as for the first part of the T+1 statistics training).

End of task 5.4.1 (step1): A questionnaire for feedback on the data collection and evaluation of the guidelines will be sent to you soon. This is a mandatory questionnaire to fill in as your feedback will be part of the deliverable.



Best-ReMaP

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 gontains.