



Sustainable and cost-effective production process for the upcycling of olive, grape and nut by-products into 4 natural and healthy ingredients for nutraceutical and cosmetic applications

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## PROJECT INFORMATION

**Project full title:** Sustainable and cost-effective production process for the upcycling of olive, grape and nut by-products into 4 natural and healthy ingredients for nutraceutical and cosmetic application

**Acronym:** UP4HEALTH

**Call:** H2020-BBI-JTI-2019

**Topic:** BBI-2019-S03-D3

**Start date:** June 1<sup>st</sup> 2020

**Duration:** 48 months

**List of participants:**

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## DELIVERABLE DETAILS

<b>Document Number:</b>	D8.3
<b>Document Title:</b>	Data Management Plan
<b>Dissemination level</b>	Public
<b>Period:</b>	PR1
<b>WP:</b>	WP8. Exploitation Activities
<b>Task:</b>	Task 8.2. Data Management Plan
<b>Author:</b>	CONTACTICA S.L.
<b>Abstract:</b>	<p>During the development of the UP4HEALTH, an important amount of data will be generated, and this includes articles, reports, deliverables, datasheets from different analysis, surveys, among other. A management plan needs to be created in order to define the protocols of organization, sharing, ownership and publishing of those results. This document describes the policy adopted regarding the management of the UP4HEALTH datasets.</p>

## 1 DATA SUMMARY

The data collection/generation within the project will be done with the purpose of achieving UP4HEALTH objectives. The objective of the project is to develop a gel enriched in polyphenols, fiber and oily extracts, which is easy and pleasant to take and provides the body with all the benefits of its ingredients.

The data collection will facilitate the selection of ingredients to develop the different prototypes of gels, based on the nutritional, solubility, texture, flavor, etc. that the raw materials provide us.

Different data sets will include:

- experimental measurements of the bioavailability and bioactivity of the functional ingredients. the determination of the availability of the functional ingredients after being subject to a digestion process;
- determination of the functional ingredients effective absorption through epithelial tissue using an in vitro Caco-2-model; and determination the bioactivities of the functional ingredients and after incorporated in the final developed product (health effects);
- oxidation and microbiological results of the final product, both with analytical data and visual content.
- prebiotic ingredients characterisation will be performed and analysed in order to validate their functional properties (viscosity, solubility, sensory, etc.) within aqueous solution. Prebiotic ingredients interactions together with different hydrocolloids will be analysed.
- the application of prebiotic ingredients will be performed and analysed in order to validate their performance and acceptance within texture modified model food and drink for elderly nutrition.
- Searchable portfolio of all relevant legislation
- Assessment of physical samples
- Experimental measurements from toxicological studies
- Data from statistical and in silico software
- Data inventories on products life cycle (including cultivation, harvesting, supply chain and processing)
- Secondary data from LCA databases and official reports. Ecoinvent, ELCD and official reports for LCA and S-LCA.

The size of the datasets will be from few MB to few GB.

### 1.1 Type and format

Experimental data will be collected. Formats of data collected will be the following ones: Word (.doc/.docx), Excel (.xlsx), Adobe Acrobat (.pdf), JPG document (.jpg), PNG document (.png).

### 1.2 Origin of the data

- A series of data provided by the suppliers or manufacturers of the raw materials will be used. Besides, data provided by the entity/entities that will make available the UP4HEALTH ingredients and, finally, the data generated by the manufacturer of the final product.
- Experimental measurements included in WP4 will be also used.

- Data will be collected from all the trials carried out during the Project according to the partners' purpose, to create a list stored as an archive to be consulted when input and information of data and results is required.
- Legislative repositories
- Laboratory assessment of physical samples
- Experimental measurements from toxicological studies
- Data from statistical and in silico software
- LCA data regarding materials, quantities and outputs will be provided by partners
- Emissions and resources use will be modelled using secondary data: Ecoinvent, ELCD, Agribalyse, World Food Database, etc. Literature can be also used as source of data if necessary.
- LCC data will be provided by partners
- S-LCA data will be provided by partners and official reports (WBO, national statistics reports, etc), databases (PSILCA, Social Hotspots database) and literature review.

### 1.3 Usefulness of the data

The data and the conclusions obtained will help manufacturers to select the best formulations of gels and bars. Besides, it will be useful for all project partners, legislative bodies, IP users, customers and end-consumers. In addition, partners will have a better understanding of the environmental, economic and social performances of their products, as well as the potential improvements compared to current practices.

## 2 DATA ACCESS & SHARING

The data set will be saved on the partners' internal server.

For private companies, this data set will be only available internally and without sharing possibilities due to potential IPR.

The following data will be stored:

- List of trials within the Project, with code number, start date, end date, description and conclusions, in Excel format
- Microbiological and physical-chemical results of the trials, in PDF and Excel format
- Graphics of results, which offer an overview of the sample's evolution over time, in Excel format
- Images of the samples to see organoleptic variations, in JPEG / PNG format

The project members will use common file extensions like .xlsx, .docx and .pdf to store information in order to be readable by the majority of the interested public.

Regarding the content, the texts will be published in English and the data will be expressed in the units of the International System. Moreover, the partners will try to use the most common and accepted language from their respective field to reach a wide audience.

## 3 ARCHIVING & PRESERVATION

The quality assurance will be applied by using an internal company server security. The archive & preservation will be done using an internal server, during a period of time of 5 years.

#### 4 COSTS

Cost of data storage, protection and accessibility are covered by the Company under other operating expenses. If there is additional cost for accessibility in specific project, the cost is allocated to the specific projects.

#### 5 ETHIC ASPECTS

The ethical principles of the project members agree with the highest standards of research integrity. The members will comply with the following principles: reliability and honesty when explaining the methods, analysis and results of the task realized during the project development, respect for the partners, the environment and the society, and responsibility for research carried out from start to finish.