

Tailored spreadsheet to allow wineries to estimate the environmental footprint profile of their specific products

ACTION B5



LIFE

PRIORAT
+ MONTSANT

MEJORA DE LA
SOSTENIBILIDAD VITIVINÍCOLA
DE LA COMARCA DEL PRIORAT

LIFE15 ENV/ES/000399



mon+**sant**
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1. Introduction and objectives

This report gives response to one of the objectives set over the B5 action on the LIFE Priorat + Montsant project, which was the creation of a tool that could perform a life cycle analysis in terms of environmental impacts, expected to be used by the wine sector of el Priorat region.

This report summarizes the content available inside the environmental impact tool calculator developed by Lavola. This tool allows the user to calculate their own environmental footprint of producing a bottle of wine, considering all the life stages stated on the PEFCR.

The following chapter gives an overview of the whole tool, showing a description of every section inside the tool, aspects for the proper usage of the tool and a guide to find and interpretate the results.

2. Description

This Excel tool is addressed to the wineries and allows the calculation of the environmental footprint associated to the production of a bottle of wine. This tool offers a quick and agile data management, moreover the user can obtain the results at the same time.

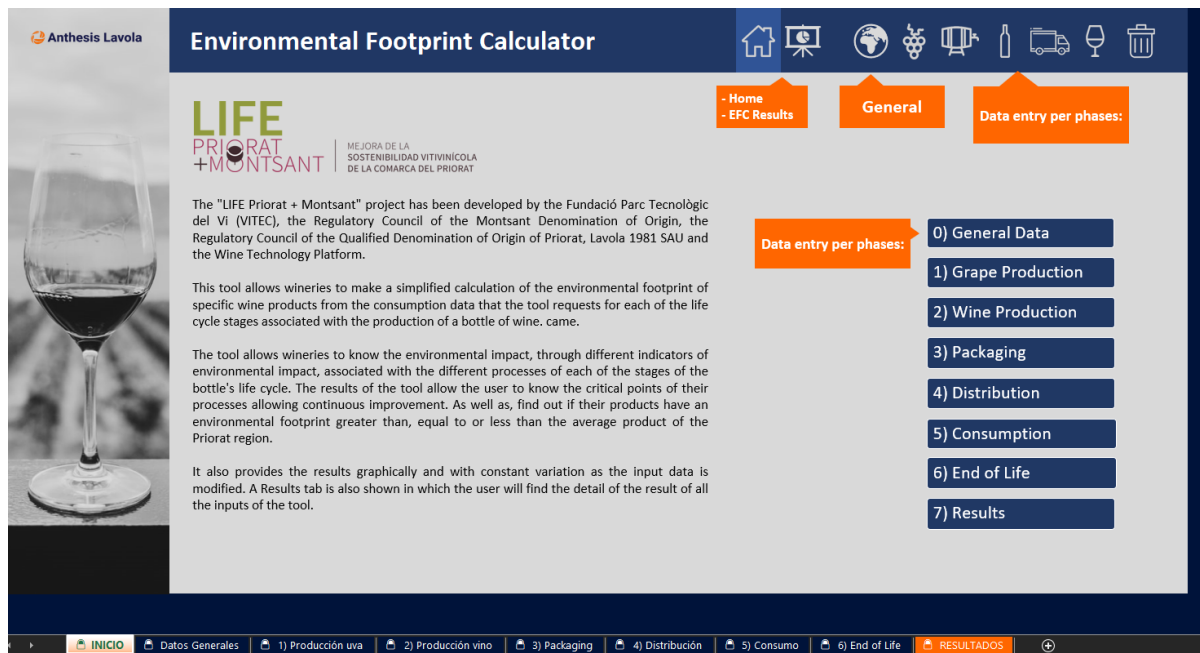
The tool is set with a data base for the inventory, which is distributed in 7 phases, and with an exhaustive results interpretation sheet.



The tool operates through an Excel file, distributed in 9 sheets related between them via hyperlinks:

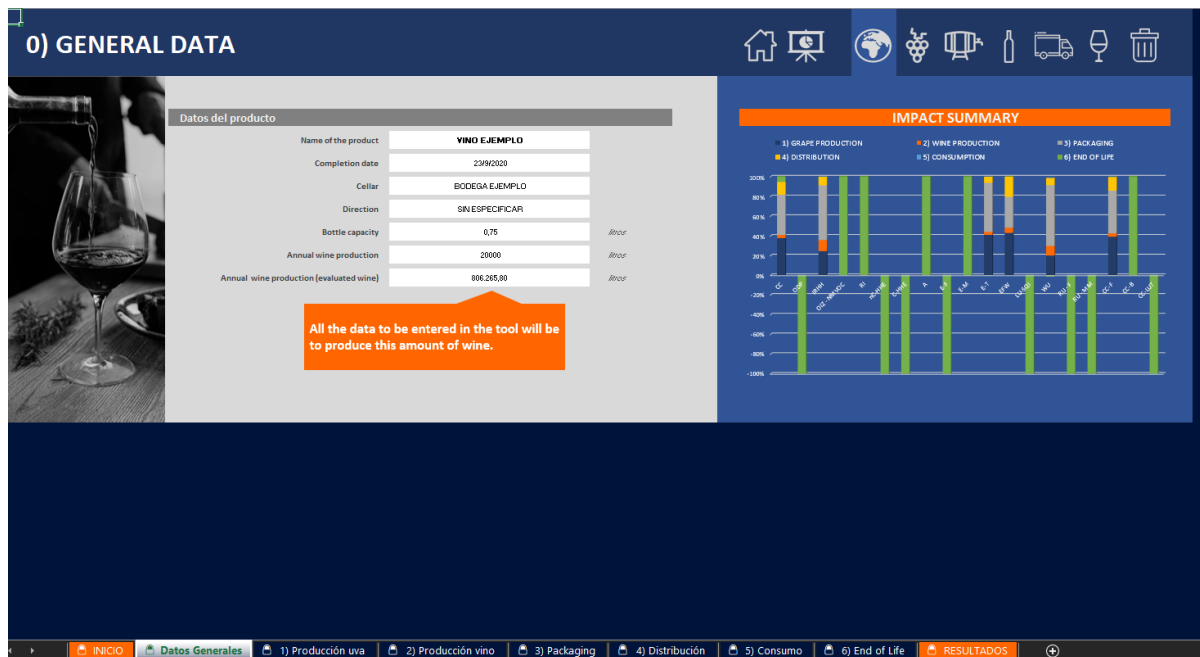
1. Start (Inicio)
2. General data (Datos generales)
3. Grape growing (Producción uva)
4. Winemaking (Producción vino)
5. Packaging
6. Distribution (Distribución)
7. Consumption (Consumo)
8. End of Life (Fin de vida)
9. Results (Resultados)

2.1. START (INICIO)



This section presents a letter of the tool where the LIFE project is contextualized. From now on the user can introduce the input data from the inventory to analyze the desired product.

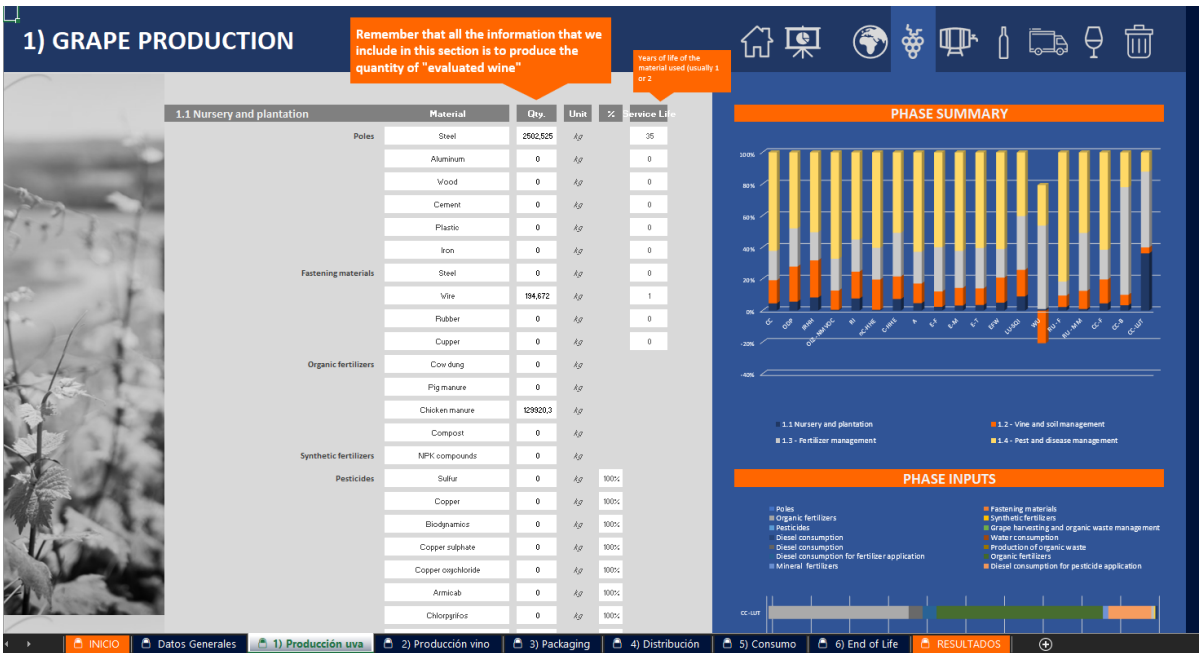
2.2. GENERAL DATA (DATOS GENERALES)



This sheet allows the introduction of the general data of the analyzed product, in order to separate different product analysis.

On the right hand of the tool is visible the environmental impact of the product for the whole life cycle and for all the environmental impact categories. This graphical representation is linked to each phase; thus, it will vary accordingly to the introduction of inputs on the tool.

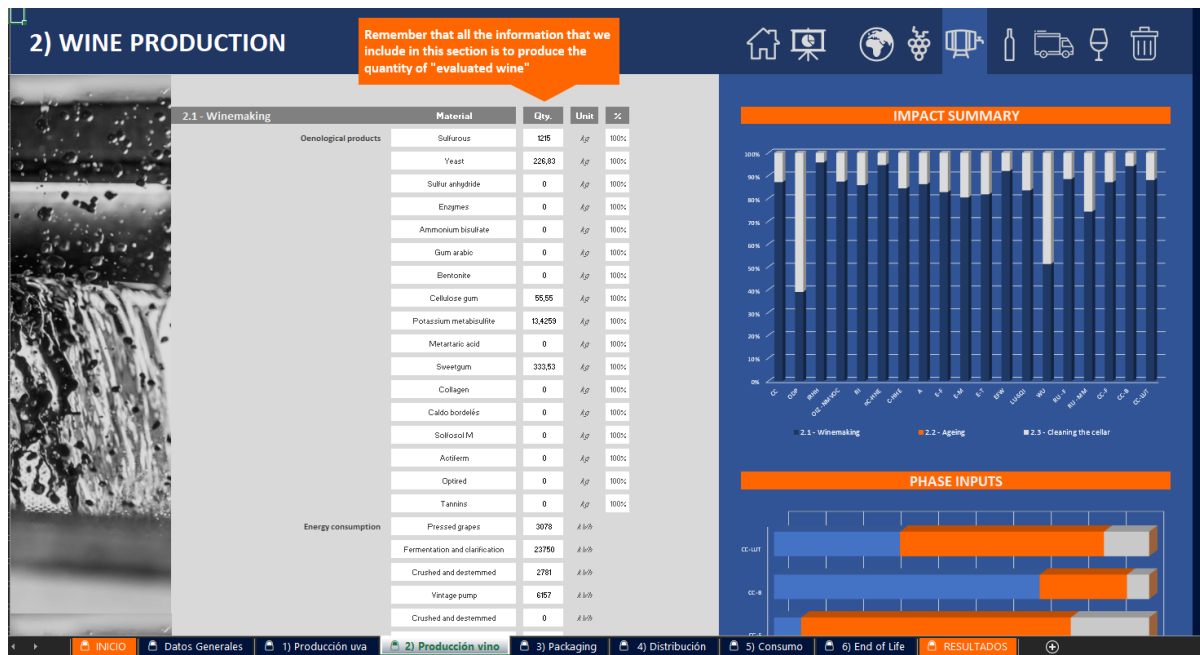
2.3. GRAPE GROWING (PRODUCCIÓN UVA)



This section is destined to introduce the information related to the growing of grapes according the life cycle substages.

On the right hand is visible a summary of the results of this stage, where the main hotspots in terms of environmental impact can be pointed. Also is useful to detect errors or anomalies over the introduction of data.

2.4. WINEMAKING (PRODUCCIÓN VINO)



This section is destined to introduce the information related to the winemaking according the life cycle substages.

On the right hand is visible a summary of the results of this stage, where the main hotspots in terms of environmental impact can be pointed. Also is useful to detect errors or anomalies over the introduction of data.

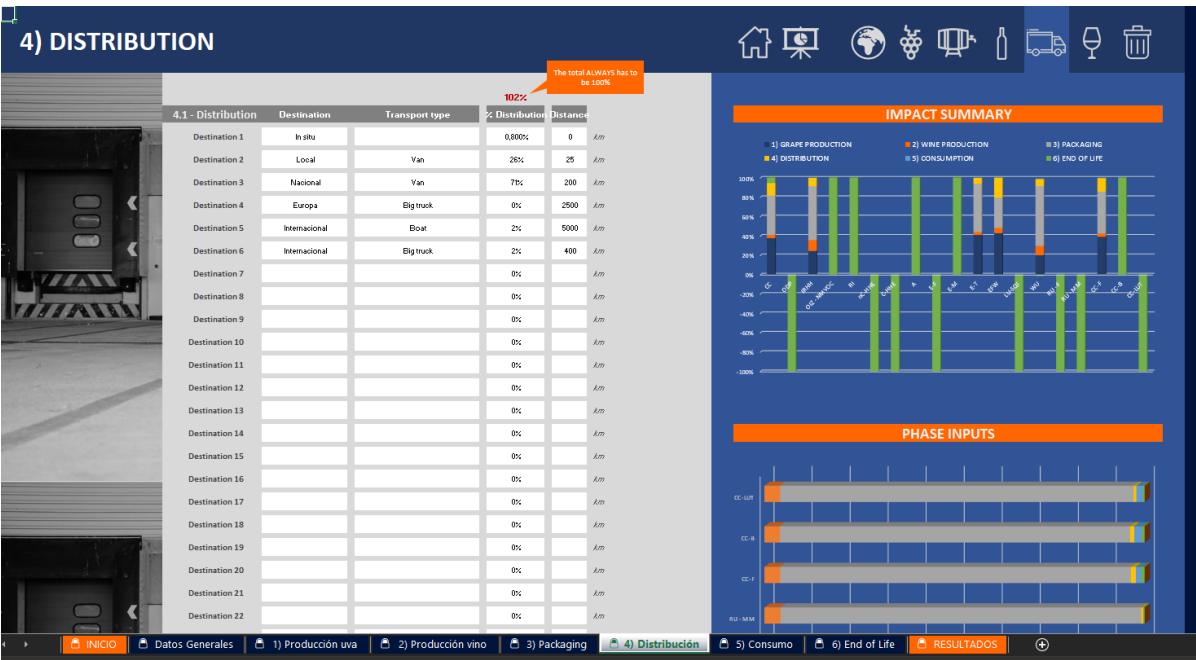
2.5. PACKAGING



This section is used to introduce the information related to the primary, secondary and tertiary packaging materials used for the production and distribution of the analyzed bottle of wine.

On the right hand is visible a summary of the results for each packaging element, where the main hotspots in terms of environmental impact can be pointed. Also is useful to detect errors or anomalies over the introduction of data.

2.6. DISTRIBUCION (DISTRIBUCIÓN)



This section of the tool allows the user to introduce an averaged scenario for the distribution of the product, based on the % production and the different destinations.

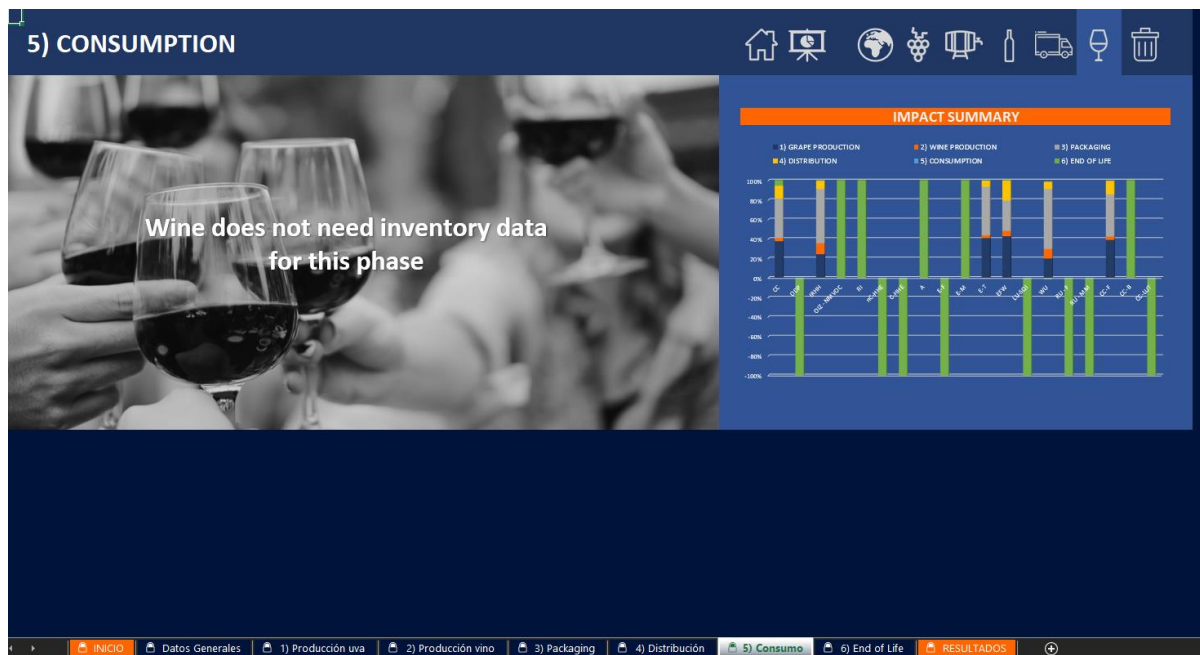
On the right hand is visible a summary of the results for each distribution element, where the main hotspots in terms of environmental impact can be pointed. Also is useful to detect errors or anomalies over the introduction of data.

2.7. CONSUMPTION (CONSUMO)

This section is empty, and any data can be introduced at this stage.

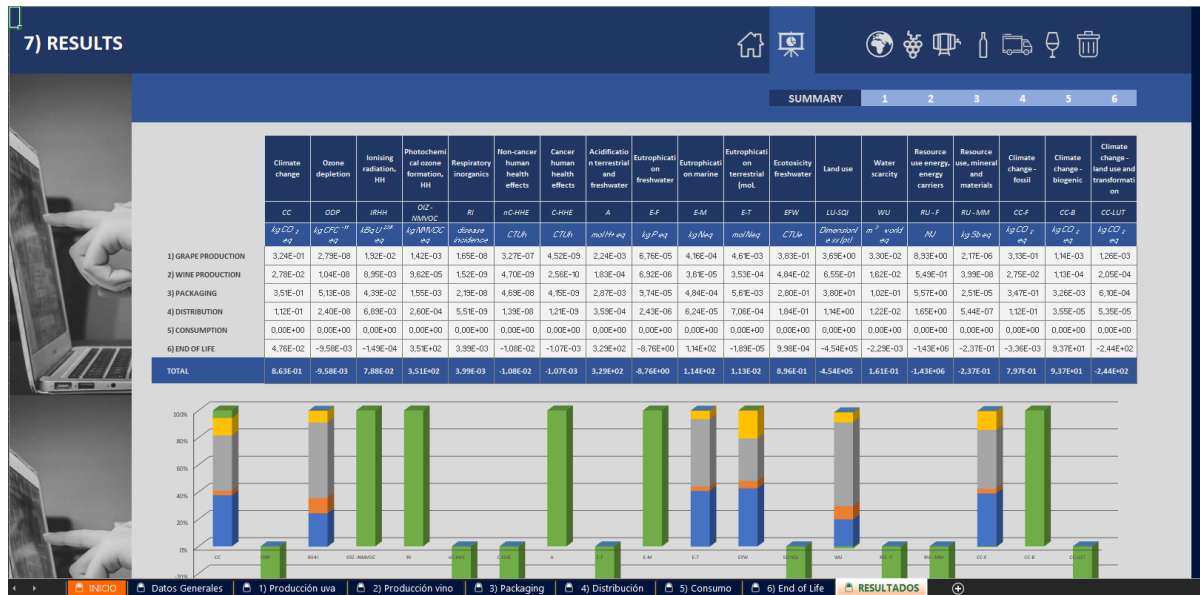
On the right hand, it's possible to see a summary containing the results of the environmental impact of the life cycle stages introduced so far.

2.8. END OF LIFE (FIN DE VIDA)



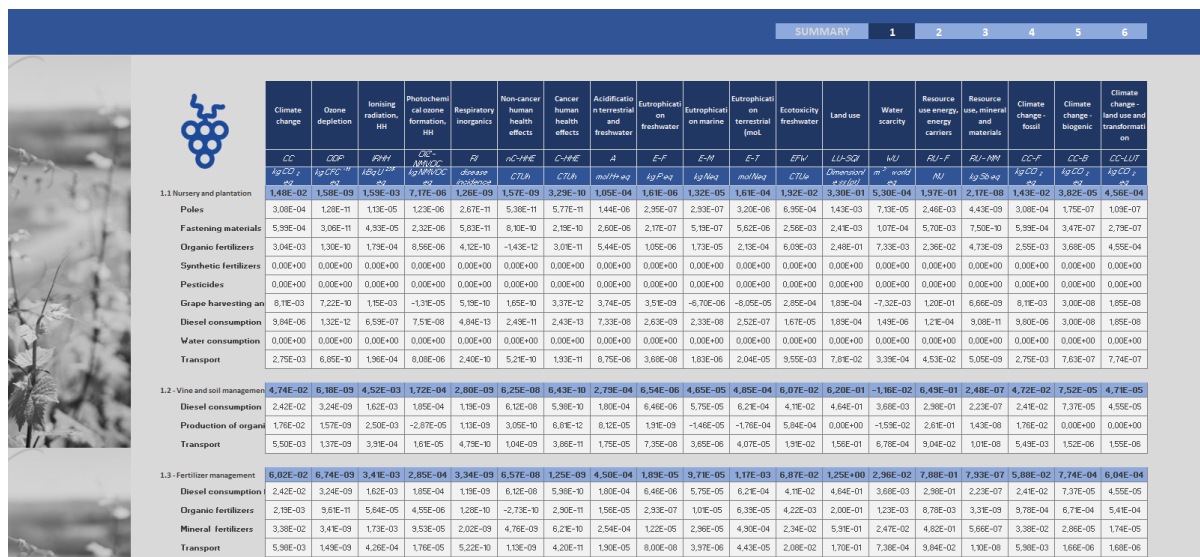
This section is completed automatically according to the data of packaging materials introduced on the “Packaging” sheet. This section shouldn’t be modified by the user. The end of life scenario applied is the one specified on the PEF CR.

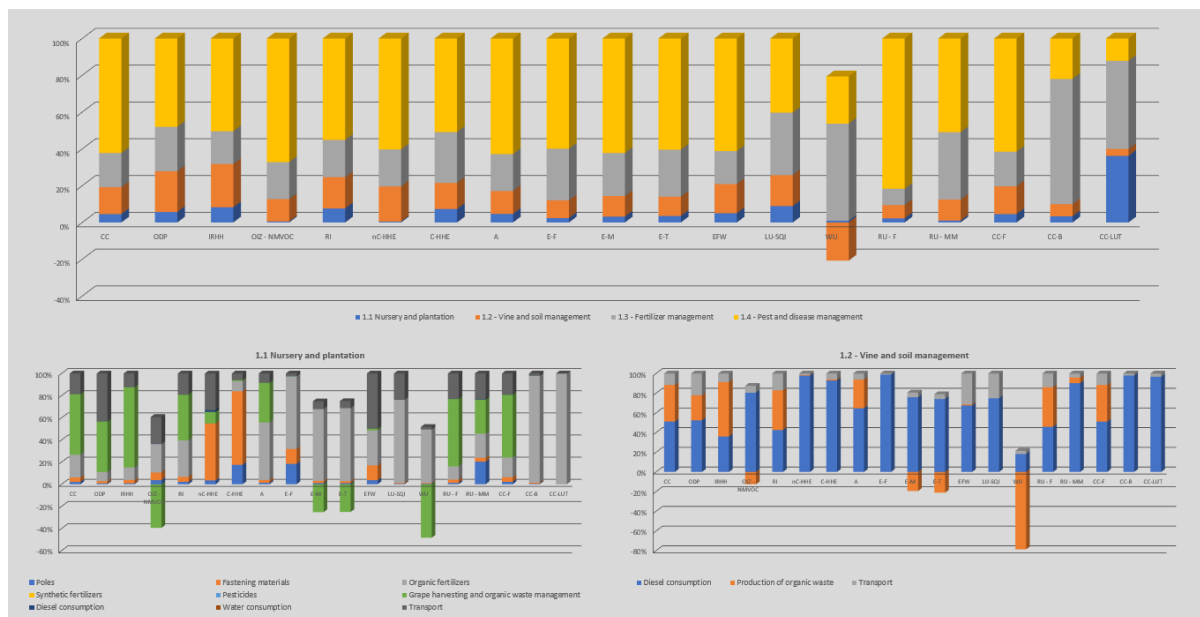
2.9. RESULTS (RESULTADOS)



The sheet “Results” (Resultados), enables the control by the user of the result values for each phase and subphase in a graphic or numeric level of detail.

This section is an exhaustive report of the results, accompanied by multiples graphics which can support the user to complete the environmental information of its product or production process.



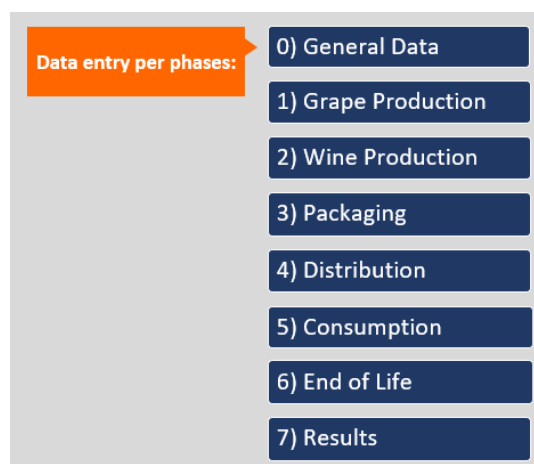


2.10. PERFORMANCE

The tool performs automatically once the input data is introduced by the user. Every time the user needs to analyze a new product, a copy of the original tool file must be created for the new analysis.

The tool is locked in such a way that the user cannot edit it beyond the information required for the proper performance of the tool.

The tool allows the user to move from one section to another by using the header or footer buttons, or the home tab buttons.



Moreover, the results section has a direct access to each phase analyzed to make more suitable the user interface:

Summary: Global results, general summary per phase.

1: Grape growing results.

2: Winery results.

3: Packaging results.

4: Distribution results.

5: Nonexistent results since the consumption phase environmental impact is zero. Any functionality is set in this sub section.

6: End of life results.

