



LIFE Project Number
<LIFE15 ENV/IT/000641>

Deliverable "Report on living labs in the study area and across Europe"

*Sub-action B3.4 "Living labs in the study area" and
Sub-action B3.5 "Living labs across Europe"*

LIFE+ PROJECT Soil4Wine

SOIL⁴
WINE

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Introduction: Project overview

Soil4Wine project "Innovative approach to soil management in viticultural landscape" is aimed to achieve a better soil management in the whole viticultural eco-system developing and testing an innovative Decision tool and management solution tested in farms located in the Project area and in Europe.

This report presents the structure and main outcomes of sub-action B3.4 " Living labs in the study area " and B3.5 " Living labs across Europe " related to Soil4Wine project Action B.3 "Interaction with stakeholders". EPGB is the responsible for this action and UCSC, HORTA, ERVET and VIN are involved in.

Sub-action B3.4 – Living labs in the study area

The “living lab in the project area” group was constituted within Sub-action A1.3 during the first year of the project and is composed by farmers of the 4 protected areas. In total 41 farmers were contacted, 24 accepted to be further contacted to be involved in project activities.

Within sub-action B3.4 these farmers were invited to several meetings during which the Decision tool (beta version) developed within Sub-action B1.2 was presented, simulations of the use of the Decision tool were performed with the participants and at the end of the meeting farmers were asked to fill in a feedback questionnaire prepared within Sub-action B2.4.

The number, location and participant composition of the meetings were slightly modified respect to the project proposal, in order to better meet farmers needs and try to increase the number of participants. In total 5 meetings were organized *at-hoc* and in two occasions the Decision tool was presented (and feedbacks collected) within broader event:

- “La terra è Madre del vino” – Cantine Bonelli, Rivergaro (PC), 08/06/2019
- “Field visit Demo Farm SP1 and SP4 and Decision Tool presentation” – Res Uvae, Castell’Arquato (PC), 25/06/2019
- “Field visit Demo Farm TBC2 and Decision Tool presentation” – Corte di Giarola, Collecchio (PR), 23/07/2019
- “Testing Tool S4W Living Lab in project area” – Azienda Vitivinicola Massina, Vigoleno (PC), 05/08/2019
- “Testing Tool S4W Living Lab in project area” – Cantine Casabella, Castell’Arquato (PC), 13/11/2019
- “Testing Tool S4W Living Lab in project area and PES” – Comune di Collecchio (PR), 20/11/2019
- “Fare rete per fare innovazione” – Residenza Gasparini, Piacenza (PC), 17/01/2020

The attendance registers of the events are reported at the end of this document as Attachment A.

In total 69 persons attended to these events, not only farmers, but different representative of the entire wine value chain. 21 persons filled in the questionnaire and provided a feedback to the Decision Tool presented.

Sub-action B3.5 – Living labs across Europe

As indicated in the project proposal, to test the Decision Tool (beta version) across Europe, local advisors in representative EU grape-growing areas were subcontracted through a professional assignment. Local advisors were selected based on their expertise and reputation in the specific viticultural area. In total 7 advisors were subcontracted, covering 7 different EU Countries and several grape-growing areas (Table 1).

Table 1: Local advisors subcontracted in different EU Countries.

Country	Local Advisor	Farmers/vineyards involved (n°)
Northern Italy	Anadiag Italia	3
Southern Italy	Agriproject	6
Slovenia	Anadiag Italia	2
Spain	Dr. Elisa González Domínguez	10
Portugal	Anadiag Portugal	4
France	Anadiag France	8
Greece	Dr. Asterios D. Kartsiaflekis	4
Hungary	Anadiag Hungary	3

The advisors were trained in the use of the Decision Tool through personal and group Skype call conferences. Successively, local advisors have selected interested farmers, visited them, showed them how the Decision Tool works in their specific context (performed simulations within the Decision Tool – Figure 1), and asked them to respond to the feedbacks’ questionnaire.

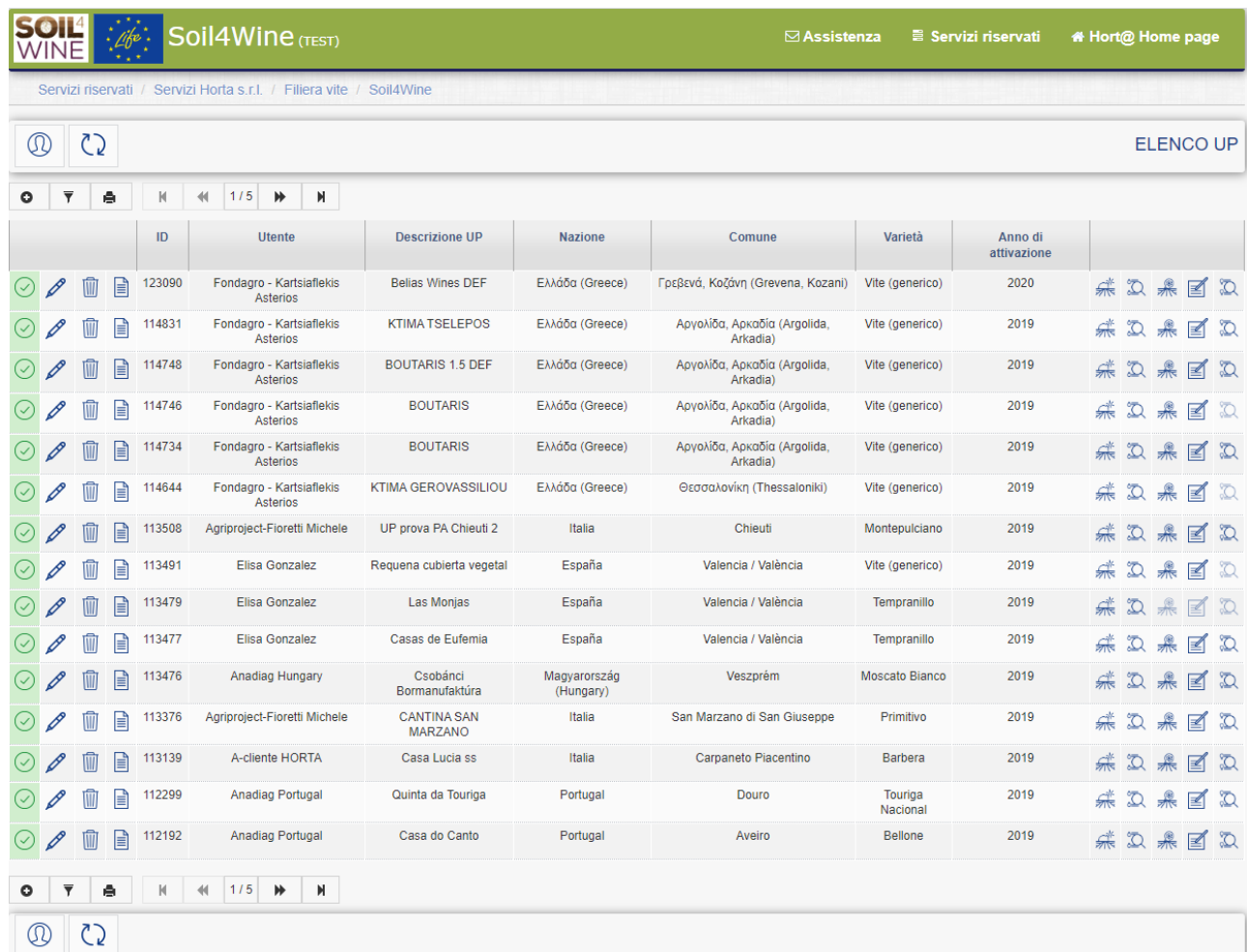


Figure 1: Decision Tool, example of a snapshot of the list of crop unit created with simulations around EU.

Results – feedback on the Decision Tool (beta version)

In total 63 questionnaires were collected, respondents came from Italy (both from project area and from other grapevine growing areas) (31), Spain (10), France (8), Greece (4), Portugal (4), Hungary (3), Slovenia (2) and Switzerland (1) and represented farms with conventional, IPM and organic conduction (Figure 2).

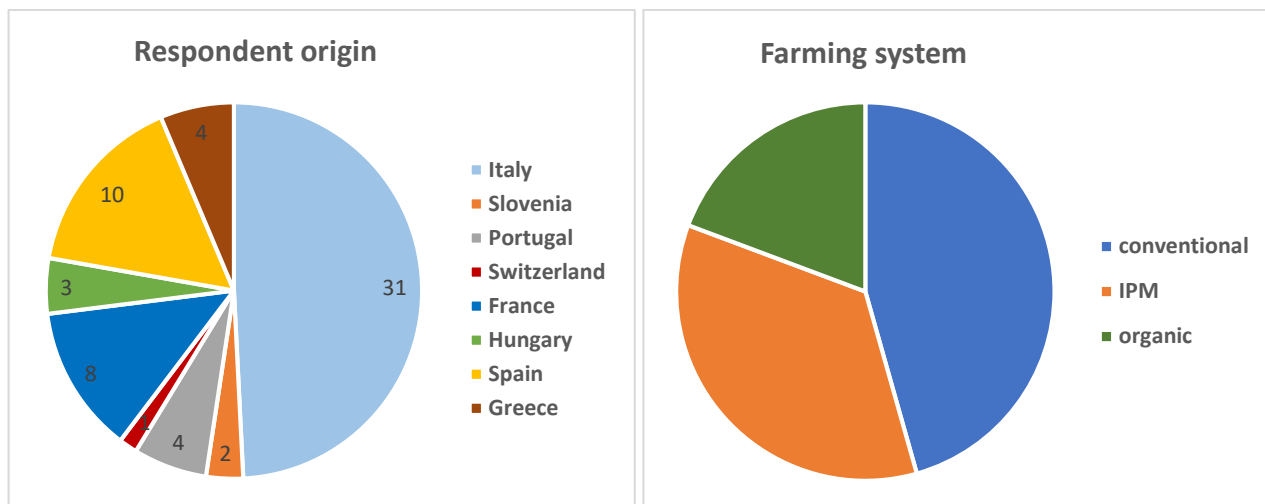


Figure 2: Origin of respondents and type of farming system of the farms they represent.

The first question had the aim to understand the actual decision process on soil management in vineyard, i.e. how the vineyard manager takes the decision on when and what to do in vineyard related to soil management. The majority (61%) of the respondents declared to manage the soil following their own knowledge/experience, another 28% following guidelines provided by an advisor, 11% following common practices in the area and none following guidelines provided by an informatic system (Figure 3).

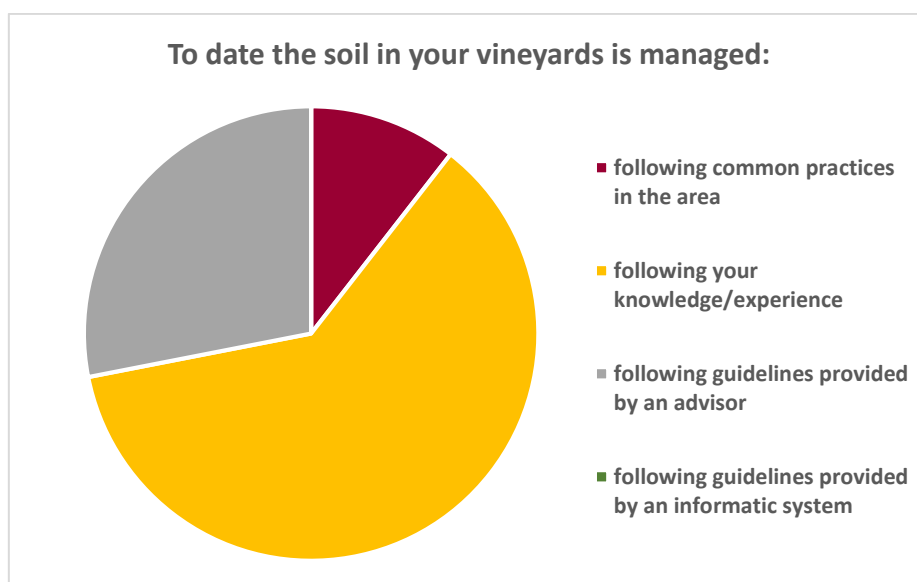


Figure 3: Basis of the decision process related to soil management in vineyard.

The farmers were then trained in using the tool, simulations were made with site specific conditions and after having used/see in detail the tool they were asked to express an opinion on: easiness of use, speed of use,

comprehension/clarity, usefulness and confidence of the given information (Figure 4). The opinions were substantially positive, only very few negative replies (4 over 213) were given.

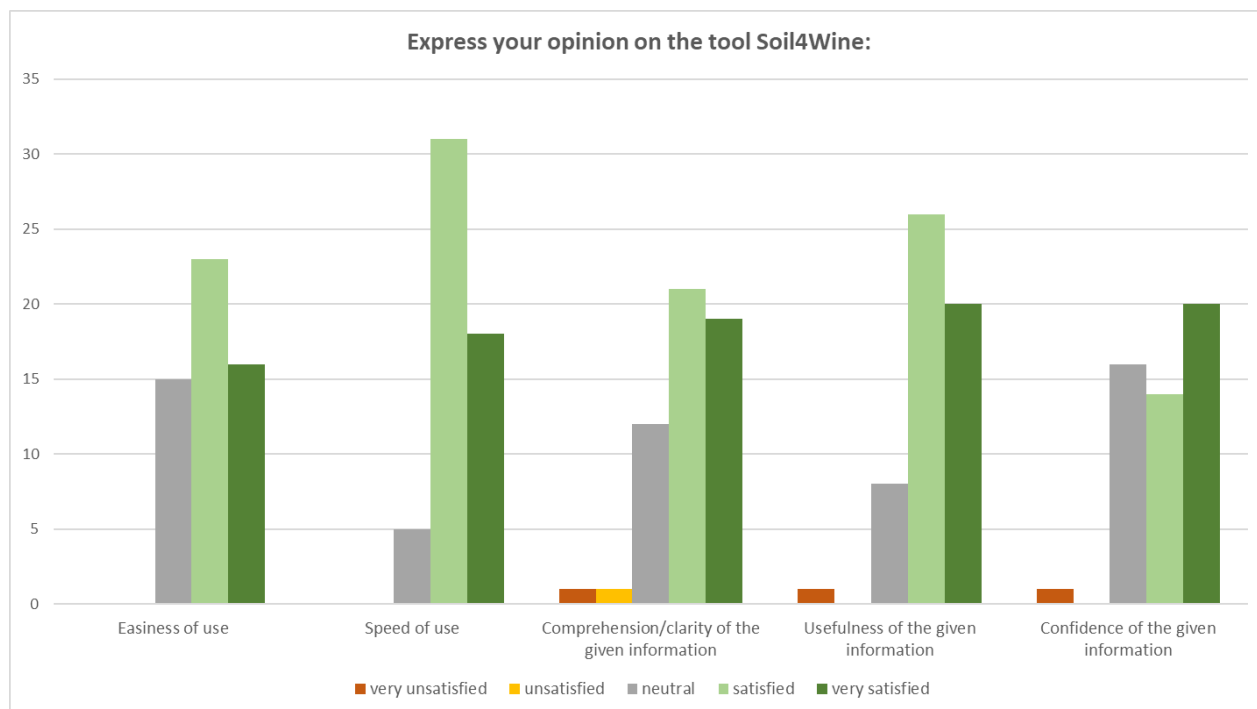


Figure 4: Opinion on easiness of use, speed of use, comprehension/clarity, usefulness and confidence of the given information.

Respondents were also asked if the tool could increase their knowledge on soil threats and on proper soil management and more than 85% positively replied. The tool was also positively evaluated regarding the improvement (simplification and time saving) of the decision-making process on soil management (Figure 5).

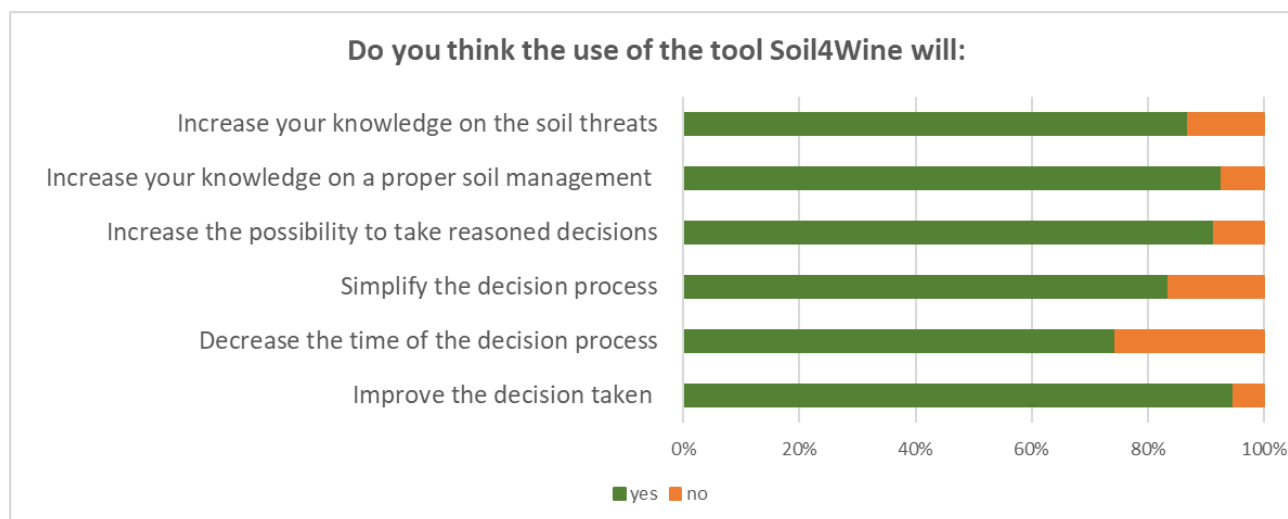


Figure 5: Knowledge and decision-making process improvement provided by the Soil4Wine tool.

The following question was related to the benefits expected by the use of the tool; more than 90% of the respondents declared that the use of the tool would enable them to better access information on soil management, to perform a better soil management and to reduce environmental impacts of the vineyard

management. The idea that a good management of the soil can have a positive impact on grape production and quality was accepted by only 65% of the respondents (Figure 6).

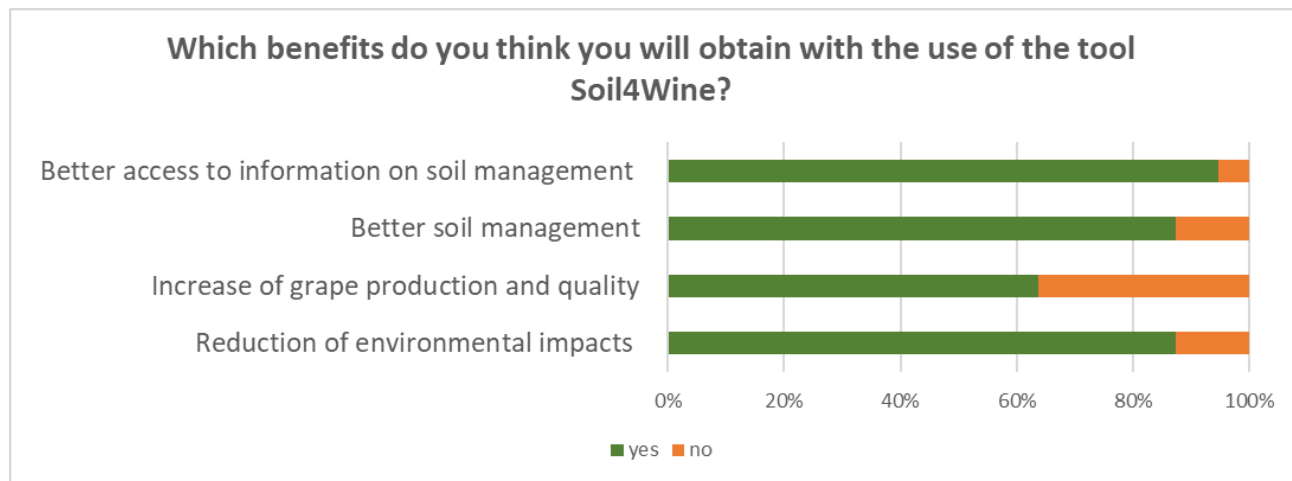


Figure 6: Benefits that arise from the use of the tool.

Tester were also asked to evaluate scientific and technical contents of the tool, as well as the tool user-interface. Results are very positive both for the descriptive sheets and for protocols for vineyard monitoring (Figure 7).

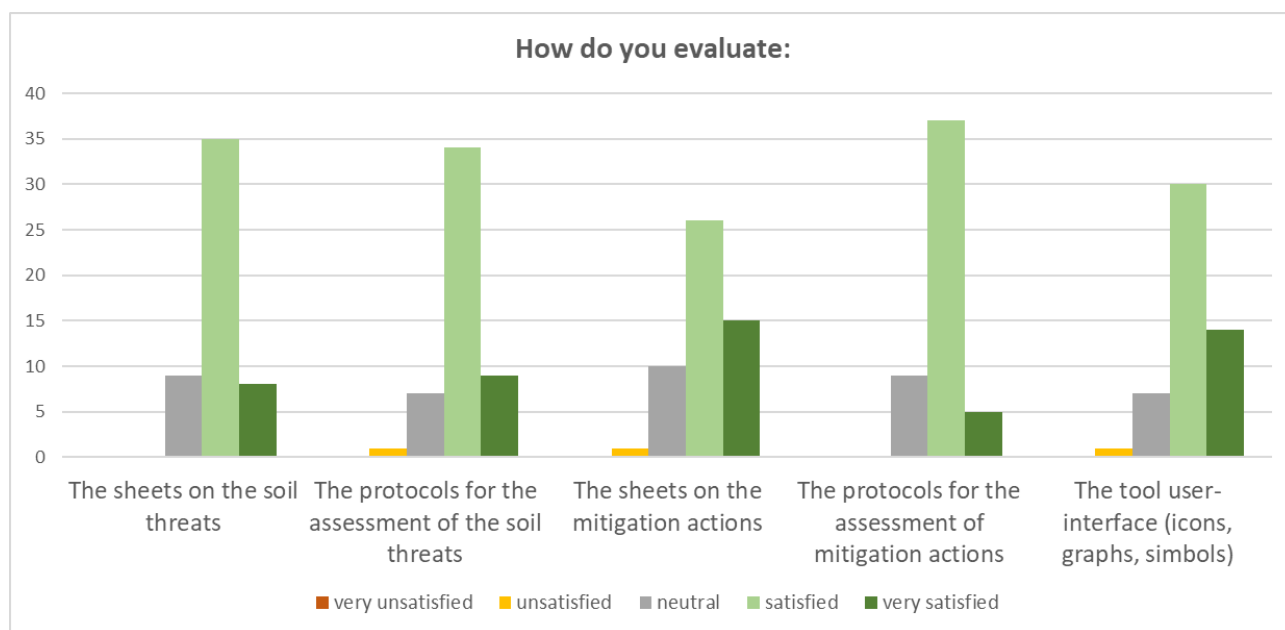


Figure 7: Evaluation of scientific contents and user-interface of the tool.

Finally, tester were asked if they would be available to pay for a service (such as the tool Soil4Wine) to improve the management of the soil in their vineyards: 65% replied yes, of these 57% would pay up to 10€/ha, 29% up to 50€/ha and 14% up to 100€/ha (Figure 8).

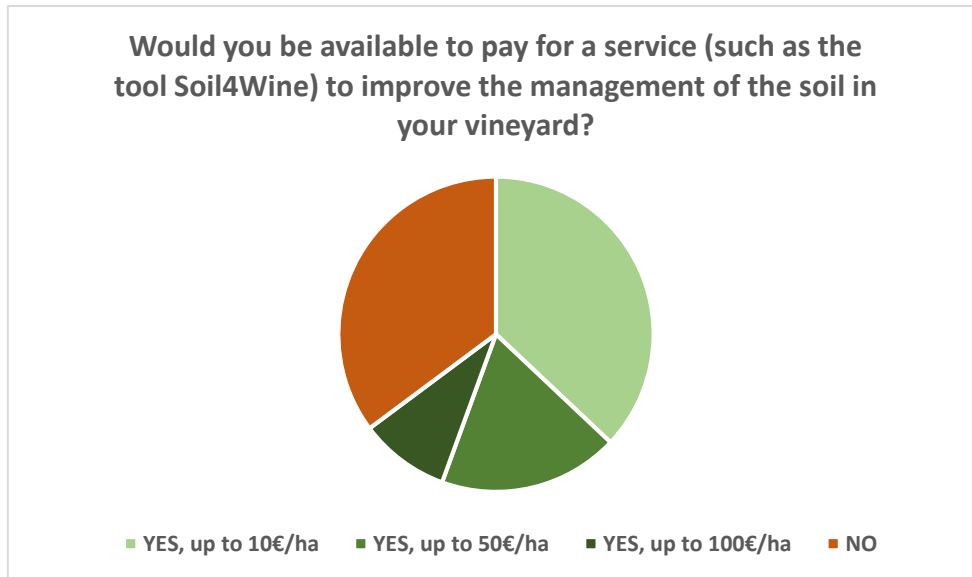


Figure 8: Availability to pay for the tool.


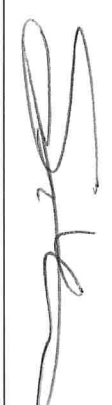

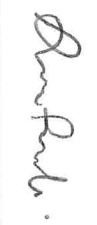


Discussion

The evaluation of the tool by stakeholders of different grape growing areas in Italy (project area and other) and other EU Countries was, in general, very positive. All aspects of the tool were considered, from the contents to the informatic characteristics, and for all a good evaluation was given. Some suggestions were also provided by the respondents and some of these were considered in the release version of the tool that is described in Deliverable “Decision tool ICT version”.



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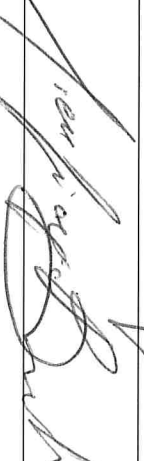


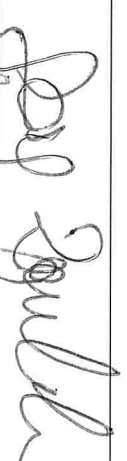



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MARISA	FONATA	CANTINE BONELLI	

Field visit 25/06/2019

Visita ai Demo-farmers SP1 e SP4

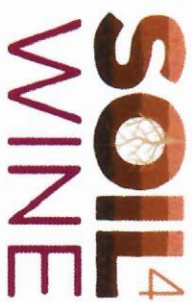
Presentazione strumento decisionale



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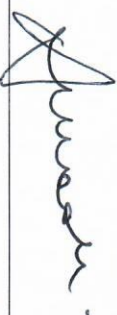

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Field visit 23/07/2019
Visita Demo-farm TBC2

Presentazione strumento decisionale



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