

New on-line training tools for a sustainable use of Plant Protection Products

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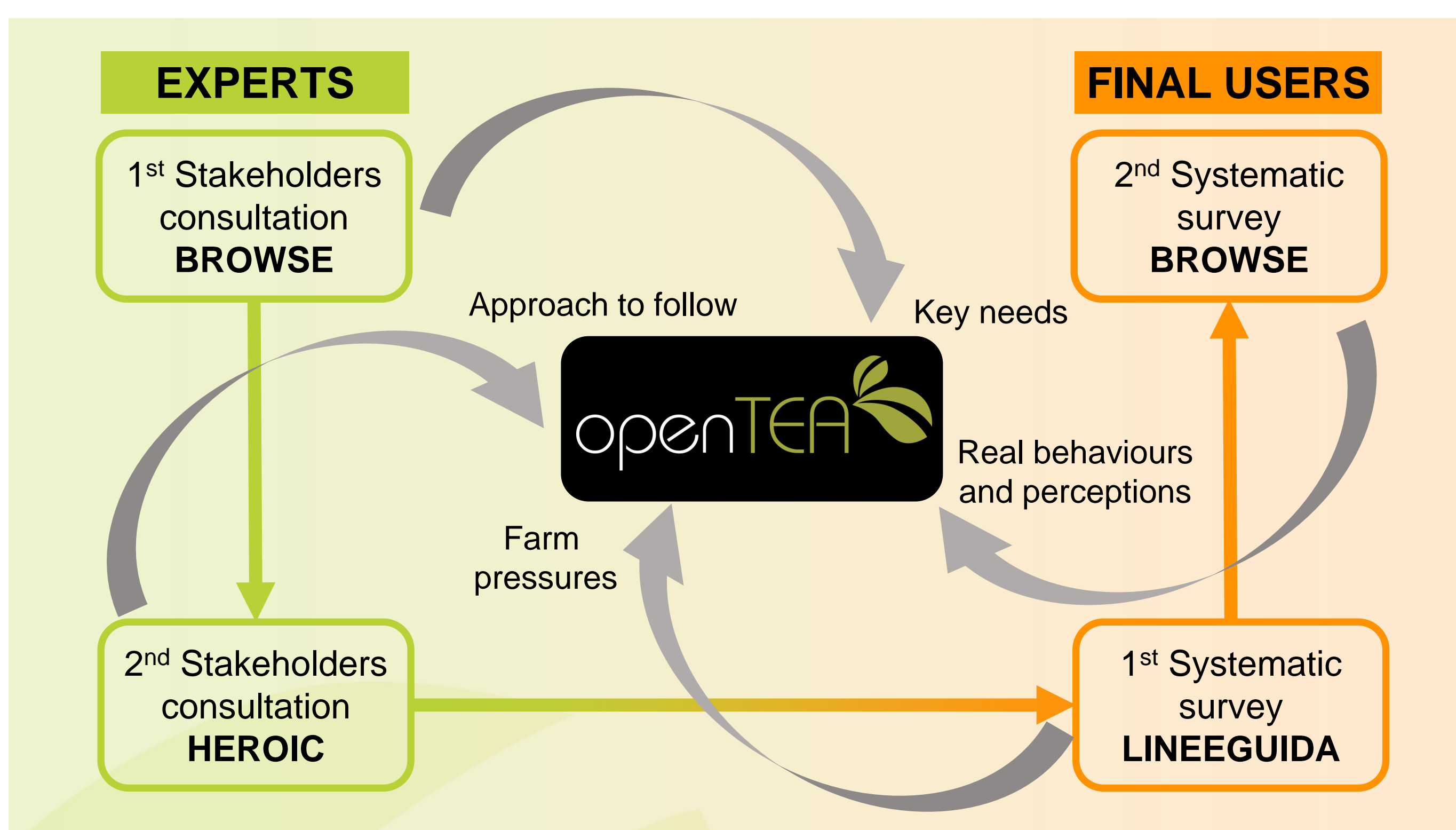
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Introduction

- In SUD (Dir. 2009/128/EC) training plays a key role to achieve a sustainable use of PPPs
- The Horizon 2020 work program requires to deliver practice-oriented research to end-users

Materials and methods

- Merging outcomes of different projects¹



¹ BROWSE EU-FP7 www.browseproject.eu; HEROIC EU-FP7 www.heroic-fp7.eu; LINEEGUIDA National program; SUPTRAINING EU-ERASMUS+ www.sup-training.eu

Aim of the study

- To contribute to the development of a new training approach for a sustainable use of PPPs
- To build new training tools for the operator

Lessons learnt:

How to train the operator?

1. Using a mix of appropriate techniques
2. Adopting modern communication technologies
3. Choosing audio-video material as the preferable format
4. Collecting and integrating already available materials
5. Shifting to a more perception-oriented and context-specific training system
6. Considering the use of e-learning technologies to guarantee greater flexibility

Results²

- Three complementary e-learning tools for the operator training covering each step of the on-farm life of PPPs



www.opentea.eu

Tool 1:
Prepare your national certification test (EN-IT-FR)

Tool 2:
Build your personalised training program

Tool 3:
Guidelines for your farm (IT)



Other SUD related tools:
Improving sustainability performances in the wine sector (IT – VIVA national programme www.viticolturasostenibile.org)

The future of fully integrated exposure assessment of chemicals (EN – MERLINEXPO software www.merlin-expo.eu)

Real time monitoring of sea contaminants by an autonomous lab-on-a-chip biosensor (EN – SEONACHIP device www.sea-on-a-chip.eu)

What it can do?



² Sacchetti G., Calliera M., Link practical-oriented research and education: New training tools for a sustainable use of plant protection products, Sci Total Environ 579 (2017) 972-977. DOI 10.1016/j.scitotenv.2016.10.166.