



ENDURE

European Network for Durable Exploitation of crop protection strategies

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PU Public	
PP Restricted to other programme participants (including the Commission Services)	x
RE Restricted to a group specified by the consortium (including the Commission Services)	
CO Confidential, only for members of the consortium (including the Commission Services)	

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Glossary

ENDURE	European Network for Durable Exploitation of crop protection strategies
ENDURE IC	web application ENDURE Information Centre (merged ENDURE - ALPS and EIC)
ENDURE-ALPS	web application ENDURE–Alternative plant protection measures
EIC	web application ENDURE Information Centre

Definitions

Summary

This deliverable provides short information on the current state of the art of the ENDURE IC, based on a number of user feedback sessions.

The ENDURE IC disseminates information on IPM measures (including best practices and non-chemical alternatives) in crop protection. It is a central point of reference for extending expert knowledge, recommendations and advice for extension services, advisors, farmers and researchers. For the end-users, mainly advisors, it provides a search mechanism with IPM measures as the result based on combinations of crops, pests/diseases and regions/countries. Currently the ENDURE IC contains about 365 summaries about IPM in arable crops, fruits and vegetables across a number of European countries.

The general feed back form advisors was positive about the layout and functionality of the search interface. Criticism and the need for further improvements were expressed for text search and the use and handling of keywords. The ENDURE IC is seen as a tool for specialists with a task in the primary collection and absorption of international results and their adaptation to national conditions to generate national advice and recommendations.

The ENDURE IC is online available at: <http://eic.endure-network.eu:8080/webui/>.

Partners: JKI, IHAR, PPO, DAAS, RRES, AU, UdL, INRA

Introduction

The ENDURE Information Centre is an online web-application developed by scientists. It is a merged application of the former ENDURE-ALPS and the EIC.

The goal of the ENDURE IC is to disseminate a selection of European crop protection knowledge on IPM and non-chemical alternatives. The target group is foremost advisors. The aim is to provide information about integrated pest management and different measures applied in different European regions. The rationale for the selection of information is to create an added value for plant protection advisors by a cross-fertilisation and exchange about different plant protection practices applied across Europe. The ENDURE Information Centre is to become an international reference point providing value knowledge in a searchable system. The information from national sources is summarized in English and hence additional accessibility of knowledge is achieved.

This report gives a short summary on the current State of the Art of the ENDURE IC. A more detailed technical description was subject of the deliverable DI4.12 “ENDURE IC online available based on the data base structure of ENDURE-ALPS” and issues especially concerning the evaluation of user feed back are addressed in the deliverable DS4.12: “Report about the test with external experts of the functionalities and the content of ENDURE-ALPS”

Current content statistics

The ENDURE IC contains 527 entries, consisting of 365 summaries regarding IPM measures in different crop and 159 summaries of research projects focussed on non-chemical control across Europe and 3 datasets in the internal back office.

The summaries represent information about 78 different crops, 239 pests, weeds and diseases in 14 European regions.

The graph below shows the total number of uploaded summaries per partner country.

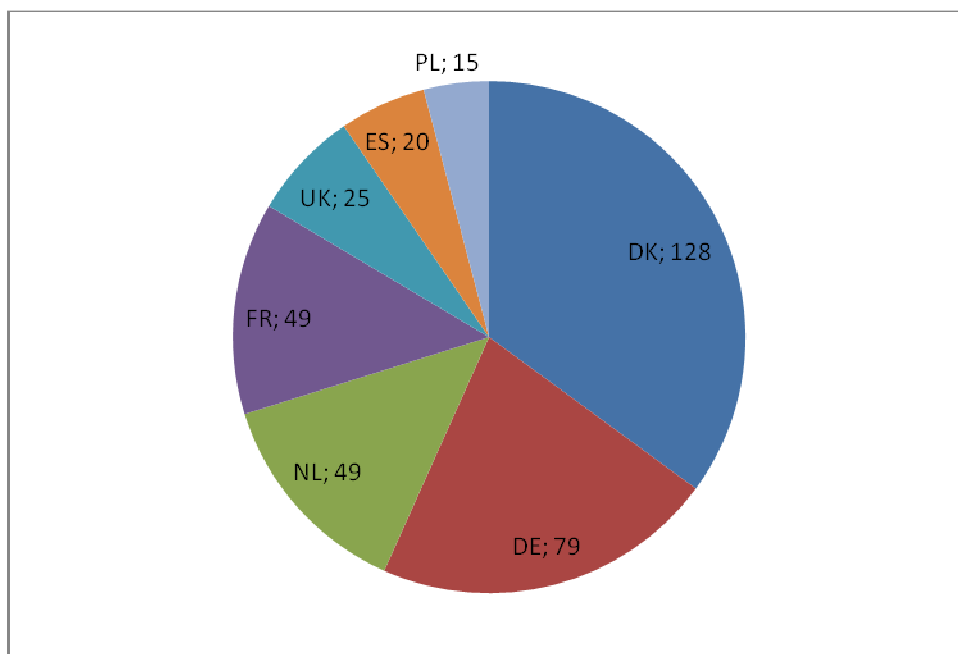


Figure 1: Number of IPM summaries (upload per partner country)

User feed back

In the course of the ENDURE IC development a number of tests were conducted to test and improve the functionalities of the overall performance of the application.

The tests were conducted at different locations and in different countries according to a harmonized test procedure and format protocol. The tests by users were either organized as individual tests or in group sessions, for group session 4-6 advisors were invited. The test sessions included a general introduction about ENDURE, an explanation of the goals of the tests, individual testing of the ENDURE Information Centre, filling the test form and a discussion about the overall impression, including the usefulness of the tool for daily practice of advisors.

The interface layout received positive feedback. It is intuitively and easy to use, the translation of the interface in various languages was appreciated and helps to overcome the first barrier of using a new system. The criticism about the limited display of key words was improved by expandable column width and the 'Clear all' function of the 'Search'-Button was implemented as recommended in most of the test sessions. Crucial points are the text search, the use and handling of keywords and the quality of the summaries. Therefore the remaining time will be used for improvements of the user friendliness of the application and the above mentioned points.

Advisors were convinced about the idea of ENDURE IC. The website and database are very interesting. It gives the opportunity to search for plant protection solutions for the same problem in other countries. Some doubts were raised concerning use for every day practice under regional conditions; such relevant information will be retrieved from national sources and databases. Comments showed that the ENDURE IC is seen as a tool for specialists with a task in the primary collection and absorption of international results and their adaptation to national conditions to generate national advice and recommendations.

Main improvements

The **main improvements** with the last update include:

- Free reading access to the application;
- Log in for authorised users (experts) is required for uploading, editing and deleting of summaries, original documents and sources

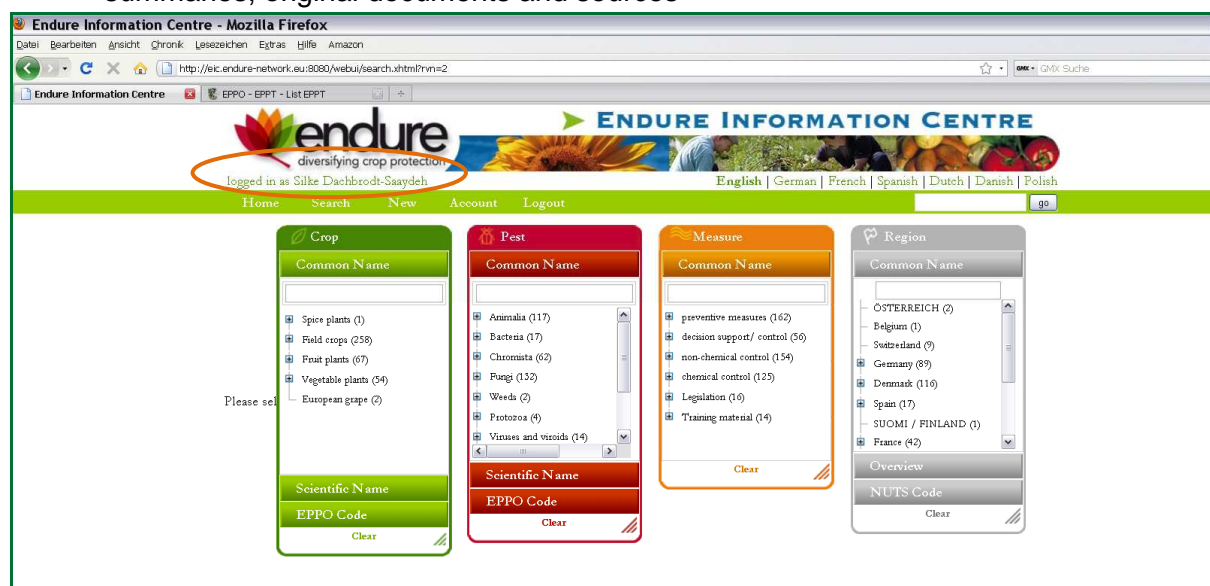


Figure 2: Expert login

- Ranking of search results. The priorities are: 1) upload date and ENDURE product, 2) date and 3) practicability.
- Summaries of outputs generated by ENDURE activities are indicated by the ENDURE symbol.

The screenshot shows the Endure Information Centre website interface. At the top, there is a navigation bar with 'Home', 'Search', and 'Login' options. Below this, there are four main filter categories: Crop, Pest, Measure, and Region. Each category has a 'Clear' button. The 'Crop' filter is currently selected, showing 'Vegetable plants' and 'NNNVV'. The 'Pest' filter shows 'Common Name', 'Scientific Name', and 'EPPO Code'. The 'Measure' filter shows 'Common Name'. The 'Region' filter shows 'Common Name', 'Overview', and 'NUTS Code'. Below the filters, a search results section is displayed, showing 'Reports (68), Projects (12) found'. A table of results is shown, with columns for Crop, Pest, Measure, Region, Title, Practicability, and Language. The first row is circled in orange, showing a report titled 'Tomato Case Study Leaflet' with a status of 'ready to use' and a language of 'FR'.

Crop	Pest	Measure	Region	Title	Practicability	Language	
Tomato	Cotton wh ...	chemical ...	FR	Tomato Case Study Leaflet	ready to use	FR	View
Witloof c ...	Sclerotin ...	Tolerant ...	DE	A comparison of chicory variants, regardi ...	ready to use	DE	View
Vegetable ...	Animalia	Legislation	BE	FYTOWEB	ready to use	FR	View

Figure 3: Ranking and identification of ENDURE outputs

- In the detailed view the language of the attached original documents is indicated by a flag.

The screenshot shows the Endure Information Centre website interface. The main content area displays the title "Mechanical weed control in cereals and grass seeds" with a summary and a list of related topics: Cereals / Cereals (YCERE), Grasses / Gramineae (GGGGG), Weed Plants / Weed Plants (TTTTT), harrowing / harrowing, mechanical measures / mechanical measures, physical measures / physical measures, mechanic others / mechanic others, and non-chemical control / non-chemical control. A map of Europe is shown with the Netherlands highlighted. Below the map, there is a section titled "Documents" with a table listing three documents. The first document is titled "Practical weed control in arable farming and outdoor vegetable cultivation without chemicals - page" and is marked with a Dutch flag. The second document is titled "Innovation in mechanical weed control in crop rows" and is marked with a Dutch flag. The third document is titled "Integrating Physical and Cultural Methods of Weed Control - Examples from European Research" and is marked with a Dutch flag. The page also includes navigation options like "Previous" and "Next" and a search bar at the top.

Documents	Title	Author	Year
3	Practical weed control in arable farming and outdoor vegetable cultivation without chemicals - page	Page from book written by D.A. van der Schaas et al	2006

Links	Title	Author	Date
1	Innovation in mechanical weed control in crop rows	Van der Weide, R.V., P.O. Bleeker, V.T.J.M. Achter, L.A.P. Lotz, F. Fogelberg and B. Melander.	1/1/08
2	Integrating Physical and Cultural Methods of Weed Control - Examples from European Research	Melander, B., I. Rasmussen, P. Barben	1/1/05

Figure 4: Indication of language of the original document

- Internal back office is implemented. The internal back office provides a searchable system which will contain ENDURE outputs which are not public, such as research reports, deliverables and other internal documents. Authorized ENDURE users can log in and search the back office.

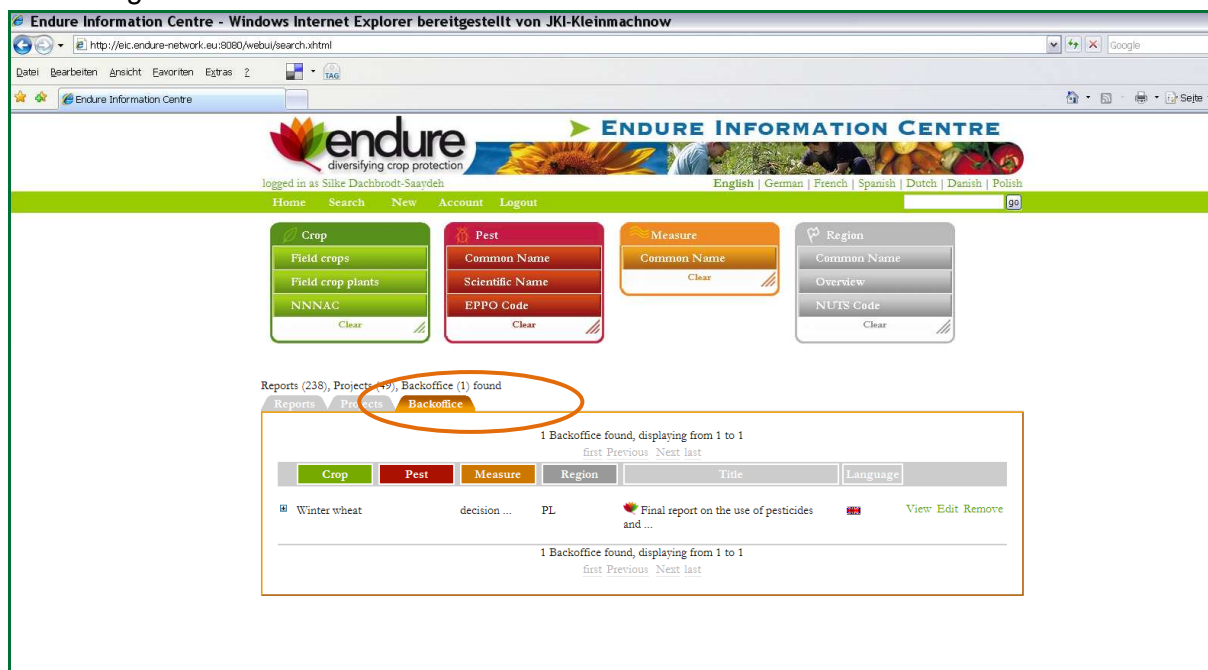


Figure 5: Internal Back office

Outlook

Further improvements of functionalities for the user interface were suggested in user feedback sessions will be implemented:

- “mouse over”-explanations of the different buttons
- improvement of the free text search
- improvement and handling of keywords

Additionally the administrative back end for administration of crop, pests and measures will be developed and functions implemented for the management of expert roles and steps for validation procedures concerning the quality control of summaries.