



ENDURE

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Deliverable DS4.5

List of advisory bodies, technical institutes and crop protection companies that have agreed to provide information under the auspices of the EIC

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1. Introduction

Deliverable DS4.5 refers both back to the 1st JPA SA4.3 + SA4.4 (now merged in SA4.1) and 2nd JPA SA4.1. Protocols for description of information and procedure for collection of information regarding best practices of IPM in potato have been developed and a first EIC prototype has now been established with potato information including fact sheets, reports, articles, databases, links to DSS systems etc. In SA4.1 (2nd JPA and 3rd JPA) other crops than potato will be included.

To get the best information to EIC and the target group, different publishers, institutions as well as different working groups within ENDURE have been contacted. This report describes deliverable DS4.5 regarding list of advisory bodies, technical institutes and crop protection companies that have agreed to provide information under the EIC.

This report is closely linked to the Deliverables DS4.2 (Lay-out for the ICT structure for the EIC useful for different types of end-users), DS4.4 (Procedures to extract, validate and transfer knowledge as being collected by SA4 and a harmonized set of metadata to uniformly describe information) and DS4.3 & DS4.7 (A first prototype of Endure-IC filled with potato data and tested by stakeholders).

More details on the lay-out of the EIC prototype can be found in DS4.3 & DS4.7

2. Status

Structure for information collection and procedures to extract, validate and transfer knowledge from different external information providers has been defined in the 1st JPA SA4.3 (deliverable DS4.4).

A list of advisory bodies, technical institutes and crop protection companies that can provide information regarding best practice in potatoes has now been made (see chap. 3). Preliminary agreements have been made specifically concerning these documents (documents=any kind of information) for specific use on EIC and the documents are now available on the EIC prototype (DS4.3 and DS4.7).

ENDURE case studies and working groups have been contacted regarding more information from potato and new information from other crops. Appointments have been made with several of the groups regarding amount of documents, types and agreements.

It is planned that the first documents from the case studies (CS) wheat and integrated weed management will be made available to EIC November 2008 (M23). March 2009 (M27) information from these groups will be finalised and documents from the case studies potato, tomato and working group DSS will follow.

In June 2009 (M30) it is planned that documents will be uploaded from CS maize, field vegetables, pomefruit and the working groups DSS (IA2.4), precision agriculture (RA2.2) and pesticide resistance (RA4.1). In September 2009 (M33) it is planned that there will be an updating of documents from all the CS and from the new system case studies (SCS) under the 3rd JPA (orchards, winter crop rotation, maize rotation and potato rotation) and the working groups Euro-wheat, DSS (IA2, VL) and innovative techniques (RA2). Information from new ENDURE member countries (Spain, Hungary, Poland, Italy and Schweiz) will be included. New updating is expected December 2009 (M36) and final improvement and updating May 2010 (M41).

The amount of information and documents from the different groups in the 3rd JPA depends on the resources the groups allocate to this task. This is first known later in 2008 and specific appointments will be made with the groups in the beginning of the 3rd JPA.

It is very important for EIC that as much information as possible is freely available to the end-users. However, as some documents are protected by copyright, licence or other sorts of restrictions, specific agreements have to be made. For the documents where the information is in some way restricted regarding publishing on EIC the individual information provider will be contacted in order to make agreements about publishing their specific documents. In specific cases a licence agreement may be needed before publication on EIC. In these cases a licence agreement from ENDURE IPUDC will be used. However, this license agreement is not ready yet and in these specific cases publication on EIC has to wait until the licence agreement have been finalised by ENDURE. It is expected that only a minor part will fall in this category.

The problem with legitimacy of the documents on EIC and intellectual property right is very important for the whole process of dissemination of information and the problem will be discussed with ENDURE IPUDC.

3. Information providers

A list of advisory bodies, technical institutes and crop protection companies that have provided information regarding best practice in potatoes have been made. To get more information to EIC, ENDURE case studies and working groups have been contacted and appointments have been made with several of the groups.

3.1 Information already in EIC (1st + 2nd JPA)

A list of information providers that have agreed to give specific information on potato has been made (Annex 1).

3.2 New information to EIC (2nd JPA and 3rd JPA)

Information from other ENDURE case studies (CS) and working groups will be collected and uploaded to EIC in 2nd JPA and 3rd JPA of SA4.1.

Questionnaires have been send to ENDURE CS and working groups and the groups have been asked to make a list of documents from their work with up-to-date and validated recommendations for crop protection strategies that can be uploaded to EIC (e.g. summary documents from the group, Endure reports, key articles, leaflets, websites etc. relevant to crop protection in Europe) and also to indicate possible publication restrictions. During the Annual Endure Meeting 15. – 17. October in La Grande-Motte, meetings were arranged with representatives from the groups and the importance of feed back from the groups was highlighted. Specifically at the plenary session it was mentioned that the groups in the coming proposals for 3rd JPA should allocate resources to deliver information to EIC.

The case studies about wheat and weed (IWM) have already collected information that potentially is useful for EIC. The first documents from these case studies will be made available to EIC November 2008 (M23). In March 2009 (M27) wheat and Integrated Weed Management will be finalised and documents from the case studies potato, tomato and working group DSS will follow.

In June 2009 (M30) documents from CS maize, field vegetables, pomefruit and the working groups DSS, precision agriculture and pesticide resistance will be uploaded.

In September 2009 (M33) there will be an updating of documents from CS wheat, Integrated Weed Management, potato, tomato, pomefruit, field vegetables maize and grapes (new). This is needed because most of the documents contains ready-to-use information that easily can be out dated. Information from new countries (Spain, Hungary) will be included and contacts will be made to the rest of the ENDURE countries (Poland, Italy and Schweiz) to identify information providers and get relevant information.

It is expected that information from the new system case studies (SCS) under 3rd JPA (orchards, winter crop rotation, maize rotation and potato rotation) and working groups Euro-wheat, DSS (IA2, VL) and innovative techniques (RA2) will submit the first documents in September 2009 (M33), followed by further information and documents in December 2009 (M36) and finally in May 2010 (M41)

The amount of information and documents from the different groups in 3rd JPA depends on the resources the groups can allocate to this task. This is first known later in 2008 and specific appointments will be made with the groups starting of 3rd JPA (in 3rd JPA of SA4.1). January 2009 (M25) EIC will send a protocol to the groups with details regarding transfer of documents to EIC and procedures.

As indicated in annex 2 many of the existing groups (2nd JPA) are working to collect their information and for some groups the status is still unknown. Contacts and follow-ups have been established (e.g. meetings under the Annual ENDURE meeting, October 2008) to ensure optimal co-operation and feed-back

Annex 2 gives a résumé of the feed back from the groups. Agreements that have been made/needs to be made with the providers for later information to the Endure IC are specified.

Problems and constraints regarding restrictions are handled in the next chapter

4. Restrictions in free information to EIC and agreements made

4.1 Information already in EIC (1st and 2nd JPA)

Most of the information providers have allowed selected information regarding potato to be available on the EIC, free of charge (see Annex 1).

Some information providers, e.g. DAAS (DK), Perspectives Agricoles (FR) and British Potato Council (UK) have only accepted publishing of specified documents specifically for potato (the documents that are uploaded now on EIC, annex 1).

For some documents there are special restrictions. Searching for Information from Wageningen University (wur.nl) on the EIC will lead you to descriptions of books that are not free information. For example, there is one book (a manual about crop protection and weeds) that the user have to buy. Information from nemadecide.com (NL) is also not completely free. The programme is developed with WUR and the company Agrifirm. On the website www.nemadecide.com the user can find information about it and demo's on how to use it, in Dutch and English. If the users want to have an advice for their own specific plot or farm then they have to call an advisor of Agrifirm to calculate the advice with help of the nemadecide program.

There are some restrictions for some French documents published by Arvalis. There are books, leaflets that are not free. The summaries in EIC describe these documents, give the price and the way to buy it on the web. For all the documents that come from Perspectives Agricoles, the link with the website is an obligation.

Agreements based on personal contacts with the information providers have been made only about the specific documents now in EIC (see annex 1). No specific written agreements have been made.

4.2 New information in EIC (2nd JPA and 3rd JPA)

For the new documents the following procedure will be followed:

- Documents where there is no restrictions (e.g. ENDURE documents like reports and leaflets) + public external documents) will be uploaded to EIC. Status of ENDURE reports, documents etc. will be checked (see 5)
- For the new documents where the information is in some way restricted regarding publishing on EIC the individual information provider will be contacted in order to make agreements about publishing their documents.
 - In most cases verbal agreements can be made for the specific documents and they can be published on EIC. Details of the verbal appointments will be described in each case.
 - In specific cases a licence agreement may be needed before publication on EIC. In these cases a the licence agreement from IPUDC will be used when ready (see 4.3)

4.3 Legitimacy of the documents on EIC

The problem with legitimacy of the documents on EIC and intellectual property right must be solved within ENDURE. IPUDC (IA2; Richard Nugent) has agreed to draft a licence agreement that could be used as a model for the information providers in cases where special agreements are needed (December 2008; M24). Final description will be made on how to deal with not-free-accessible information June 2009 (M30, **DS4.10**).

5. Procedure for evaluation of information published on EIC

It is important that the documents are in line with the EIC and that they are relevant. To make sure that all documents fulfil the requirements a review procedure has been established:

- The (basic) quality of the documents, leaflets, reports etc. are validated by the respective ENDURE groups.
- Information collected by EIC members (e.g. new countries, updating etc.) will be validated by the respective EIC member and local/national experts in the field.
- The responsible EIC member will provide an English summary of the documents
- All documents collected for publishing on EIC will be circulated in the SA4.1 group to make sure that:
 - They fulfil the EIC requirements that have been set up previously
 - They are relevant for the EIC target group
- Publication status for each document is checked (e.g. ENDURE reports for external publication, status of leaflets, status of individual external documents). ENDURE licence agreement (IPUDC see 4.3) will be used in case of special restrictions.

Annex 1. List of advisory bodies, technical institutes and crop protection companies that have already provided potato information to EIC July, 2008.

Country	Organisation	link	Adress	Type of organisation	General information policy	ENDURE potato	
						Description	Numbers
DK	Danish Agricultural Advisory Service	www.it.dk	Udkærsvvej 15, DK-8200 Århus N	National Extension	Free information	Selected documents to EIC free 1)	12
DK	UNIVERSITY OF AARHUS, Faculty of Agricultural Sciences	www.agrsci.dk	Blichers Alle 20, DK-8830 Tjele	Research	Free information		4
NL	Masterplan Phytophthora		Postbus 91, 5000 MA, Tilburg	Program organisation	Free information		1
NL	Actieplan aaltjesbeheersing	www.kennisakker.nl	Postbus 29739, 2502 LS, Gen Haag	Program organisation	Free information		1
NL	projectgroep reductie bewaarziekten in pootaardappelen		Postbus 84102, 2508 AC, Den Haag	Program organisation	Free information		1
NL	Wageningen Universiteit and Research	www.wur.nl/UK/	Postbus 16, 6700 AA Wageningen	Research	Free information	Some books are not free information	7
NL	Aardappelwereld Magazine	www.aardappelwereld.nl/	Postbus 84102, 2508 AC, Den Haag	Potato Magazine	Free information		1
NL	Telen met toekomst	www.telenmettoekomst.nl	Postbus 430, 8200 AK, Lelystad	Research	Free information		2
NL	HPA	www.hpa.nl	Postbus 2517 JL, Den Haag	National Extension	Free information		1
NL	nemadecide (Sales: Agrifirm)	www.nemadecide.com	Postbus 1033, 7940 KA Meppel	Farmers Cooperation	programme for sale	Only demo is free	1
NL	Boerderij	www.boerderij.nl	Postbus 4, 7000 BA Doetinchem	Farm magazine	copyright	Copyright magazine, content from WUR	1
NL	Ekoland	www.ekoland.nl	Postbus 16, 3740 AA Baarn	Farm magazine	copyright	Copyright magazine, content from WUR	1
NL	CLM	www.clm	Postbus 62, 4100 AB Culemborg	Research	Free information		1
UK	British Potato Council	www.potato.org.uk/	4300 Nash Court, John Smith Drive, Oxford Business Park South, Oxford, OX4 2R	Levy Body	Free information	Selected documents to EIC free 2)	17
UK	IRAG	www.pesticides.gov.uk/rags.asp?id=702	Rothamsted research, Rothamsted, Harpenden, Herts, AL5 2JQ	Research/Industry network	Free information	Free	1
DE	Julius Kuehn - Institute, Informationszentrum und Bibliothek	www.jki.bund.de	Erwin-Baur-Str. 27, 06484 Quedlinburg	Research	Free information	Free	
DE	Bayrische Landesanstalt für Landwirtschaft	http://www.lfl.bayern.de/lps/	Vöttinger Str. 38 • 85354 Freising-Weißenstephan	State research Centre	Free information	publicly available information	
DE	ISIP – das Informationssystem Integrierte Pflanzenproduktion	http://www.isip2.de/coremedia/generator/isip/Start.html	ISIP e.V. Geschäftsstelle, Rüdeshheimer Str. 60-68, 55545 Bad Kreuznach	joint organisation of State Advisory Providers	free information and subscription	detailed information needs subscription	1
FR	ARVALIS INSTITUT DU VEGETAL	www.arvalisinstitutduvegetal.fr	STATION EXPERIMENTALE 91720 BOIGNEVILLE	National Extension	free information and subscription	free and subscription	18
FR	INSTITUT TECHNIQUE DE L'AGRICULTURE BIOLOGIQUE	www.itab.asso.fr	149 RUE DE BERCY 75595 PARIS CEDEX 12	National Extension	free information	free	2
FR	SERVICE DE LA PROTECTION DES VEGETAUX NORD PAS DE CALAIS	www.srpv.draf-nord-pas-de-calais@agriculture.gouv.fr	81 RUE BERNARD PALISSY BP 47 62750 LOOS EN GOHELLE	national government	free information	free	2
FR	SYNGENTA France	www.syngenta.fr	20 RUE MARAT 78212 ST CYR L'ECOLE	industry	free information	free	1
BE	CENTRE WALLON DE RECHERCHE AGRONOMIQUE	www.cra.wallonie.be	4 RUE DU BORDIA 5030 GEMBLOUX	Research	free information	free	1

1) Normally membership of DAAS is required
2) Normally only freely available to levy payers

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Documents:

No specific documents have been collected but the report contains a good reference list.

Pomefruit

Bart Heijne

Bart.heijne@wur.nl

Reports:

Two reports about state of the art of integrated control in pome fruit. Uploading to EIC will be discussed with the group.

Leaflets:

The group has planned 3 leaflets (apple scab, brown spot of pear and codling moth). They are not ready yet.

Tomato

Montserrat Estopa

montserrat.estopa@irta.cat

Reports:

They have only made one (virus) report. To be discussed with the group.

Leaflets

The Tomato Case Study has ended at July 2008 and have all the results resumed in a leaflet and now we are in the process of editing it. The leaflet will be uploaded to EIC when ready.

Wheat

Lise Nistrup Jørgensen

lisen.jorgensen@agrsci.dk

The wheat case study ended 2007 and EUROWHEAT has taken over with more or less the same people. The group will make their own home page (www.eurowheat.org) where the documents from the group will be presented.

Reports:

Report from wheat case study (2008). "Best control practices of diseases in winter wheat" (85 pages). The report contains a description of major disease problems and present wheat disease management in 7 different countries (UK, DE, DK, FR, It, Hu, PI). It offers also examples of best disease practises, which can be used in order to minimize dependency on fungicides.

Leaflets:

"Using cultivar resistance to reduce fungicide input in wheat". Wheat Case Study- Guide no. 1. Autumn 2008 (preliminary). The leaflet describes the benefits from growing cultivars with good resistance to major diseases, with focus on reduced dependency on fungicides. The leaflet will be uploaded to EIC when ready.

"Strategy to control Fusarium ear blight and mycotoxin production in wheat". Wheat case study- Guide no. 2. Autumn 2008 (preliminary). The leaflet describes the risk for development of fusarium and toxins in grain. It gives recommendations to minimize the problems with focus on application of good agricultural practice. The leaflet will be uploaded to EIC when ready.

Documents:

The EUROWHEAT group have collected and validated documents:

UK: Fungicide resistance. Management in Cereals

Report from FRAG- UK (Fungicide Resistance Action Group)- Update from 2008.

The report contains general resistance management guidelines as well as specific recommendations in relation to individual diseases. For each disease a status of the resistance situation is given and recommendations with respect to specific fungicide groups are dealt with.

France: Fungicide resistance situation in wheat

Collaboration note from INRA, SPV and Arvalis for cereal diseases resistance management - Update from 2008.

The report contains specific recommendations in relation to individual diseases. For each disease a status of the resistance situation is given and recommendations with respect to specific fungicide groups are dealt with.

Jørgensen, LN. et al. (2008) Integrating disease control in winter wheat – optimizing fungicide input. Outlook on Pest Management. Oct. 2008.

The paper describes how diseases are controlled in Denmark using monitoring, thresholds and reduced fungicides rates.

UK-HGCA- Wheat disease management in UK- update 2007.

The brochure describes the main principles with respect to disease control in UK. It deals with crop physiology and epidemiology in relation to relevant control strategies.

UK-HGCA- Wheat seed health and seed born diseases. A guide. Summer 2004

The brochure describes the main disease problems in wheat with respect to seed born diseases. Gives information on rules for certification of seed and for each disease information on identification, life cycle, risk factors, economic importance and control measures are given.

UK-HGCA. Managing the Fusarium mycotoxin risk in wheat. Topic sheet 91/2007

Information on legislation, risk assessment and identification of fusarium toxin is given.

UK-Food standard agency: Code of Good Agricultural Practise for reduction of mycotoxin in UK cereals.

The brochure describes agronomic and storage changes which can be made to minimize the risk of exceeding the EU-limits for fusarium toxin in cereals.

France: French thresholds for disease control in wheat.

The brochure describes in details how to investigate and assess diseases in the field with the aim of determining whether or not control is needed.

Maize Patrik Mouron patrik.mouron@art.admin.ch

At the moment the group has not made a list of publications etc. It is the goal for the 2nd JPA that the case study maize RA1.2 creates a leaflet addressing farmers/ advisors with information for strategies to reduce pesticide input (DR1.18, DR1.19). The results will be based on a survey questionnaire (7 countries) and information collection. As soon as the group has relevant documents for EIC, they will send it. Information expected April 2009.

Field vegetables Philippe Lucas Philippe.Lucas@rennes.inra.fr

The Case study just started on July 1st 2008 and the group has organized their first meeting beginning of October. Thus they are not able to provide any leaflet or reports. Information expected May-June 2009

Working groups:

Euro-Wheat Lise Nistrup Jørgensen lisen.jorgensen@agrsci.dk
See wheat case study.

DSS Per Rydahl Nielsen PerRydahl.Nielsen@agrsci.dk

Reports:

The collected data and the presentations that were made on the workshop indicated that DSSs for crop protection in Europe vary considerable for many of the features included in the survey. E.g. the type of decisions that are supported, the number of crop/pest systems covered, modelling approaches, level of validation, level of complexity, level of uptake, accessibility, etc. etc.

Before the end of November 2008, the IA2.4 group will deliver a joint report on these DSSs including recommendation of 'best parts' for unification on an European level. The group has decided to conduct separate analyses in the following 4 crop/pest groups: diseases in horticultural crops, diseases in agricultural crops, pests and weeds

Leaflets:

Documents

Information on 67 different DSSs for crop protection in Europe can be compared on selected features and relevant parts can be made available to EIC. The original data forms are available at <https://workspaces.inra-transfert.fr/QuickPlace/endure/>

The DSSs were presented on a pan-European workshop (Denmark 17-19 March 2008). Slideshows from these presentations can be made available to EIC. Also available at <https://workspaces.inra-transfert.fr/QuickPlace/endure/> .

The original data forms and presentations may support tasks of relevance to the ENDURE IC. The group expects that many concrete recommendations may be extracted as 'ready to use information' or after some interpretation (e.g. threshold values or decision algorithms for certain crop/pest systems, recommendation of specific pesticide dose rates for specific conditions, etc.). Procedure and responsibilities for extracting recommendations of this material to support a development of European best practices must be discussed with the group

Precision agriculture RA2.2 Carolien Zijlstra carolien.zijlstra@wur.nl

No specific answers to the questionnaire. Contact during Annual ENDURE meeting October 2008 and agreement on more feed back from the group.

Pesticide resistance Ian Denholm ian.denholm@bbsrc.ac.uk

No answer to the questionnaire

Annex 3. Time table for collecting documents and upload them to the EIC

September	ENDURE CS and working groups have been contacted about information to EIC. First feed back from the groups showed presence of a number of relevant documents
1-2 OCT.	SA4.1 meeting with discussion of principles of collection of information from the different countries, validation and uploading. Appointments with new case study groups of 2 nd JPA and other working groups about delivery of relevant documents
9 Oct	Reminder to those ENDURE CS and working groups that have not answered to questionnaire. Invitation to meeting at SA4.1 workshop 16 October
16 Oct.	Meeting with ENDURE CS and working group leaders at SA4.1 workshop and discussion of appointments with case study groups and other working groups about delivery of relevant documents
End Oct.	<p>First documents from Wheat and Weed (IWM) groups collected as pdf-files</p> <p>Appointments made with new case study groups of 2nd JPA and other working groups about delivery of relevant documents (MS4.9).</p> <p>Report on “List of advisory bodies, technical institutes and crop protection companies that have agreed to provide information under the auspices of the EIC (This report, DS4.5)</p>
16 Nov.	First documents from Wheat CS (and Eurowheat) uploaded to EIC
7 Dec.	Draft license agreement from IPUDC how to handle the specific documents (Richard Nugent) and agreements with information providers
End Dec.	Description made on how to deal with not-free-accessible information (MS4.12)
End March 2009 (M27)	Documents uploaded to EIC of wheat and weed (IWM) groups (new docs in relation to uploading Nov. 2008), Tomato, DSS
End June 2009	CS maize, field vegetables, pomefruit and the working groups DSS, precision agriculture and pesticide resistance will be uploaded (all Sa4.1). An idea how to deal with not-free-accessible information (RTP & JEJ); Exchange with Endure-ALPS (SD); An idea how to sustain Endure-IC after the Endure program.