Societal expectations for safe food and environmentally friendly agriculture

Area 5.4.6 - Safer and environmentally friendly production methods and technologies and healthier food stuffs.

Topic 1 - Reducing the use of plant protection products.

EC Contribution
11,2 M €

Crop protection: fragmented scientific knowledge and R&D community

European Network for DURable Exploitation of crop protection strategies

End-users (farmers, advisers), industry, policy-makers, society at large…
Main objectives

- **Bring together** available research capacity and resources
  - Programme, facilities, mobility

- **Enhance** the research-to-R&D innovation process
  - Researchers → extension, practitioners

- **Bring in** other sectors: industry, policy making, civil society

- **Pass on** knowledge, know-how and resources through training and education

- **Endure** by building a sustainable and trans-national institution
Consortium composition

Research
• INRA - FR
• BBA - DE
• RRES - UK
• CIRAD - FR
• CNR - IT
• AGROS - CH
• WUR - NL
• IHAR - PL

Education & R
• SSSUP - IT
• SZIE - HU
• UdL - SP
• AU - DK

Extension
• DAAS - DK
• ACTA - FR

Management
• IT - FR

Industry
• IBMA - Int.

and...
• INCO countries
Dias nummer 4

vt1

DIAS est AU et non AU-FAS.
+ mise en forme DK

Vincent Troillard, 12-02-2007
Project structure

**Dissemination**

- Optimize & reduce pesticide use
- Multicriteria assessment
- Design innovative crop protection strategies

**Integration**

- Meeting, consumer, legislator, and user expectations
- Basic knowledge
- Biology of crop, pest systems

**Research**

- Case studies
  - Design innovative crop protection strategies
General organisation

External Advisory Board
Research
Industry
Consumers
Env. groups
Policy making

Governing Council
High-level institutional representation

Management Team

Executive Committee
Integration
Competence mapping, foresight study, mobility, ...

Joint research
Optimizing & reducing products through case studies, developing innovative strategies, multi-sector evaluation, ...

Spreading excellence
Training, education, tech.- transfer, communication, ...

Crop Protection Network
Research networks
Civil society networks
Related EU projects

Virtual lab.

Competence Centre
What is ENDURE?

Although pesticides continue to play a valuable role in crop protection, there is general agreement that strategies exploiting a more diverse range of tactics are likely to prove more sustainable. Supporting these changes requires that new technologies and practices are proposed to the producers. It necessitates to anticipate or break down barriers for the development of innovations and to set up new governance in plant protection policies and regulation. These necessary changes must be considered as common target goals in both developed and developing countries and should become a major aspect of agricultural research.

ENDURE’s objectives are to:

- Define research priorities on pesticide reduction at the European level
- Pool knowledge, facilities and human resources according to the needs of agricultural extension, industry, and the non-profit sector
- Become a source of reference satisfying farmer needs and societal expectations.

ENDURE is not a decision-making body. However, in a societal and regulatory context increasing restrictions on pesticide use, it will give tools and knowledge to stakeholders who have to make decisions concerning pesticide use reduction, use optimisation and reliance reduction.
Potato Case-study (1)

Description of work
- Late blight and early blight
- Ability of pesticide reduction (cvs, DSS etc.)
- Analysis of bottle necks → research activities

Partners: INRA, IHAR, IBMA, DIAS, CNR, ACTA, WUR

RA 1.1 Survey ongoing research and facilities

RA 1.2 Survey state of the art of control strategies (toolboxes)

RA 1.3 Analysis of integrated control strategies (in a workshop)
Deliverables

DR 1.1 Report of kick-off meeting (month 4)
DR 1.2 Report of survey ongoing research and facilities (month 9)
DR 1.3 Report on survey state of the art control strategies (month 14)
DR 1.4 Report analysis of integrated control strategies across Europe (month 18)

Milestones

MR 1.1 On basis of DR 1.3 → which key factors in toolbox can be useful for other important potato disease, pests, haulm kill
MR 1.2 On basis of DR 1.3 → need for additional factors when Q-diseases are involved
Potato case-study (3)

- Activities in coming 18 months
- Present ENDURE in EuroBlight workshop
  2-5 May Bologna, Italy
  Ask for update of research projects/facilities (website)
- Write DR 1.1 and DR 1.2
- Survey toolboxes in 4 potato regions in EU
- Discussion of these toolboxes and analysis in Workshop in November/December 2007
  Location? 1-2 days?
- Write DR 1.3 and 1.4