



## ***European Network for the durable exploitation of crop protection strategies***

### **IA3 Activity: Human resource exchange**

#### **ENDURE - Internal Mobility**

##### ***Final activity report***

*(This form has to be completed and sent to the activity leader – the message should be sent to his p.a. [elisa.scanzi@ibaf.cnr.it](mailto:elisa.scanzi@ibaf.cnr.it) – within 15 days of the end of the visit)*

##### **Topic of the visit**

Literature review on the effect of risked management and information on strategic and tactical choices of farmers will allow setting up a methodology for applied studies

#### **1. Information about researcher and sending partner**

**Name and surname:** Gabriele Mack

**Professional status:** *senior scientist*

**Sending partner:** Agroscope Reckenholz-Tänikon (AGROS)

**Institute/Department/Research Unit:** Forecasting systems Unit of AGROSCOPE ART.

**Address:** 8356 Ettenhausen, Switzerland

**E-mail and phone number of the researcher:** Gabriele.mack@art.admin.ch

**Supervisor name\*:**

**Supervisor e-mail\*:**

**Supervisor phone number\*:**

\*Supervisor information only for PhD student, post-doc and junior researchers

#### **2. Information about hosting partner**

**Hosting partner:** Agricultural Economics Research Institute (LEI)

**Institute/Department/Research Unit:**  
Plant division, section Enterprise & Environment;

**Address:**  
**Burgemeester Patijnlaan 19**  
**2585 BE Den Haag**  
**The Netherlands**

**Supervisor name\*: Januurma**

**Supervisor e-mail\*: jan.buurma@wur.nl**

**Supervisor phone number\*: 31 (0)70 3358330**

\* For senior scientist indicate the name of the collaborating colleague

### **3. Information about the visit**

**Duration: 4 weeks**

**Start date: 13. August 2007**

**End date: 9. September 2007**

### **4. Description of the activities and outcomes**

#### **Background and context:**

To manage crop production risks, which are caused by pest and diseases, farmers apply various risk management strategies. The most common strategies are: diversification of the cropping system, cultivating more or less risky crops, growing resistant cultivars and improving the knowledge related to cropping systems and crop protection methods. These risk management strategies have a wide influence on the application of chemical and alternative pest control measures.

#### **Objective:**

1) Deepening knowledge and research skills for ENDURE RA 3.2 on the impact of risk on pesticide use and risk management strategies:

- Theoretical aspects of risk-perception on tactical and strategic choices of farmers.
- Research on causal connection between risk-perception, pest incidence and intensity of crop protection and degree of innovation.

2) Improving language skills (English communication)

#### **Activities carried out:**

A literature review on risk-management and pesticide use on farm level. The literature review comprises three parts:

1. Summary on scientific definitions related to risk and risk management
2. Overview on Economic theory: Economics of decision making on pesticide use
  - Overview of economic models
  - Impact of risk on decision making on pesticide use
3. Overview on risk management strategies on farm level to reduce pesticides

- Influence of entrepreneurship on pesticide use
- Factors affecting adoption of IPM-methods

## **5. Links between visit activity and ENDURE**

Elaborating a literature review on risk caused by pest and diseases and the impact on pesticide use is part of the research activities of RA 3.2 in the first 18 months. The objective of RA 3.2 in the first phase is to carry out a literature review on the effect of risk perception and gained information about pest incidence on strategic and tactical choices of farmers will allow setting up a methodology for applied studies. (see ENDURE – 031499, Annex I, Description of work, Release 3 , S 154)

## **6. Impact**

### **Added value for the researcher:**

It was very interesting to gain insight into working conditions and operational procedure in a foreign research institute.

### **Added value for sending partner and hosting partner: *maximum 10 lines***

*Contacts to work together in other projects were made.*

### **Date of submission**

26/11/2007



Dr. Maurizio Sattin  
IA3 activity leader

Approved

