



# **INVITATION LETTER**

**Training courses**

**on**

**Evaluation and authorisation procedures for**

**Plant Protection Products**

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## 1. Introduction

Dear National Contact Point,

As part of the **Better Training for Safer Food initiative (BTSF)**, the Consumers, Health and Food Executive Agency is organising and implementing a 24 month training programme on **Evaluation and authorisation procedures for Plant Protection Products**.

The training is designed mainly for **risk assessors** and **risk managers** from the national competent authorities in Member States

This training is an essential tool in order to improve the knowledge and awareness of EU law in the field of principles and methods of food safety risk analysis, and to promote a common understanding of the operation of EU and national control systems.

This invitation is for Training activities on the **evaluation and authorisation** procedures for **plant protection products**

The training project is divided into **4 areas**:

- **Assessment** of efficacy of plant protection products
- **Toxicological** risk assessment
- **Eco-toxicological** risk assessment for the terrestrial and aquatic environment
- **Environmental** fate and behaviour in soli, air and water

## **1.1 Overall educational project objective**

Training courses will consist of a mix **of theoretical and practical sessions** with emphasis on the practical exercises, using also “real life” case-studies, where appropriate.

Discussion sessions will be organised for exchange of views and feedback from participants and with the aim to facilitate formation of future networks and to enable participants to disseminate knowledge to others on return to their authority.

The time allocated to group work will be balanced with the theoretical lectures in order to provide participants with the opportunity to apply the knowledge acquired every day.

Participants will be encouraged to effectively participate in discussion rounds, team work and exchanges of national best practices, so that they can benefit from each other’s knowledge and experience.

For most of the topics, **participants will train and implement the achieved knowledge in practical case studies**. The topic will then be opened up to general discussion in which delegates will raise and discuss general issues, or specific problems of their own country. The tutors will facilitate these exchanges of experience.

The case studies will be simplified in order to allow the participants to have time to apply all the taught methods within the timeframe of the course.

To help the tutors address key issues in their presentations, and to provide topics for later discussion, **delegates are asked to complete a questionnaire** prior to the workshop, in which they identify and provide details on specific issues or concerns they have for each topic.

## 1.2 Overall project objective

The workshops will allow an analysis and exchange on **risk assessment methodologies** applied at national level for the **assessment of plant protection products** performed in accordance with the EU legislation on pesticides, Regulation (EC) No 1107/2009 and in accordance with the Uniform Principles set out in Regulation (EU) No 546/2011.

The risk mitigation measures assessed during in the risk assessment of plant protection products to allow for an acceptable use are fundamental to define the conditions for use of pesticides in each crop. Indeed, once defined they become part of the authorisation conditions and, if applicable, have to be reported on the labelling of the products in the form of specific conditions of use or as Safety Precaution Phrases (SP-phrase), according to Regulation (EU) No 547/2011.

In this context, a part of the workshop will follow up on the results of **MAgPIE project** which provides the toolbox of **risk mitigation measures** designed for the use on the pesticides for agricultural purposes.

This course will generally focus on:

- deepening how Member States and/or zones implement the Uniform principles for **evaluation and authorisation of plant protection products**,
- examination of national **risk assessment methodologies** and identify which degrees of flexibility in the models used could still be adjusted to not undermine potential mutual recognition,
- examining some specific cases of **risk reduction** goals deriving from the risk assessment and how they are pursued through identification of effective **risk mitigation measures**,
- comparing and discussing possible equivalent **risk mitigation measures**,
- exchanging views on experience gained in implementing the Guidance Document (SANCO/11244/2011 rev. 5) on the preparation and submission of

dossiers for plant protection products according to the “**risk envelope approach**”.

## 2. Selection criteria

- Participants shall represent **staff of competent authorities** involved in **official control activities** and more specifically **risk assessors**

It should be clear from their background and professional position that the participation in the training activity is a key element for the improvement of their skills and competence for their job.

The trainees should have the required **technical skills related to the fields listed above.**

- The course will be held in **English.**  
In order to be able to understand and actively participate in the sessions, exercises and case studies, we invite you to give priority to only register the participants who can read and speak English.
- The participants will be requested to commit themselves **to use the knowledge** gained from the courses and also **disseminate it** via different dissemination methods i.e. informing colleagues about the information received at the training, distributing (photocopying or sending via electronic way) the training material among their colleagues, preparing informative articles in the professional national or, if possible, in international journals, preparing presentations based on the training material for the National Competent authorities’ professional trainings or other dissemination methods which could be appropriate to share the information received via the BTSF trainings.

### 3. Practical Arrangements

#### Perugia - IT

##### Hotel

**Sangallo Palace Hotel** is one of the four stars hotel which with his many rooms and comfort welcome the tourists who visit Perugia.

Located in the old centre of Perugia, at about 50 meters from the fascinating 16th century fortress « Rocca Paolina ». All the historic buildings and tourist attractions in Perugia are in walking distance.

A wellness area, a heated swimming pool and gym and terraces with panoramic views are only few of the facilities which this 110 rooms hotel have to offer to his guests. Each room offers comfortable, relaxing and modern furnishing to satisfy every taste. 32 inch flat screen TV's with sat channels, air conditioning, radio & direct line phones and safe are only few of the facilities which each room is equipped with.

The hotel have 6 conference rooms with a capacity up to 230 people where dedicated high speed WiFi internet and latest Hi Tech technology it is available for successful and memorable events.



## **Social Activity**

Perugia has the honour of being both the capital of the Umbria region and of the Province of Umbria. Located in the centre of the country, Perugia is approximately equidistant from both Florence and Rome and sits in a hilltop region surrounded by valleys and mountains. This town has artistic and monumental treasures of a rich past. It looks like a small fortified medieval village, but with a very busy city life.

For the social activity the participants will be offered a walking tour in the historical centre of the city, walking on Corso Vannucci, the town's principal street, is pedestrianised and leads to the main square, Piazza IV Novembre where a grand thirteenth-century fountain known as the Fontana Maggiore is the square's centrepiece. As well the town's cathedral, the Duomo or Cattedrale di San Lorenzo with a baroque facade and Roman ruins below dating mainly from the fourteenth and fifteenth centuries are only few of the historical attractions which this city will unveil to the group.

The evening will end with a specific local traditional dinner offered in a restaurant situated in the centre of the city.



## Antwerp - BE

### Hotel

For Antwerp, we have selected the **NH Collection**.

NH Collection Antwerp Centre is located in the Diamond Quarter, in the heart of Antwerp. Nestled in between old jewellery shops, it is conveniently situated in front of the Central Station, close to the Antwerp Zoo and the FMCCA.

The hotel has 186 rooms divided over eight floors which are bright and spacious. All rooms are accessible and equipped with a wide range of facilities including LED TVs, Nespresso machines, minibar and safe. They also have high-speed wireless internet access.

With 5 boardrooms and 1 big conference room, the hotel can accommodate multiple meetings at the same time.

All boardrooms have capacity up to 10 people, offer natural daylight and are equipped with the latest technology.



## **Social Activity**

In Antwerp we will organise a walking tour called 'Legends of Antwerp' in which the participants will be able to discover why Antwerp is called the city of giants. Why the hand is the symbol of the city. How did Antwerp come to be the richest city in the 16th century in Europe and what are the reasons for its decline.

During the tour, participants will explore the historic centre with a professional guide and get to know the history behind the rise and fall of Antwerp's Golden Age, mixed in with some old legends that have been around for hundreds of years. We start the tour from the Grote Markt square and from there we take you to the Stone castle, Butcher's Hall, St. Charles Borromeo church, Farmer's tower, Meir, Rubens house, Fashion nation, Friday market, museum Plantin-Moretus, Vlaeykensgang and the Cathedral of Our Lady. The tour guides will also give them tips on the 'must do's' of today's Antwerp.

After the visit, the participants will have a dinner in a Belgian traditional restaurant.



## Athens - GR

### Hotel

**Novotel Athens** is a 4 star hotel in the centre of Athens is close to Omonia Square, Larissis station and the National Museum.

All the 196 rooms are spacious and contemporary in design, with comfortable bed, bath/shower, large ergonomic work area, 26" LCD TV with pay movies and internet access, broadband connection, hair dryer, minibar, tea/coffee.

The conference facilities at the Novotel provide a professional daily-light space for any type of event in the 10 rooms which have a total capacity of 800 people on a surface of 620 m<sup>2</sup>. The audio and video equipment, podium, syndicate rooms, overhead projector Air-conditioned meeting room, WIFI wireless internet access, high speed transmission line, etc. are just few of the facilities which this hotel offer for successful events..

And also as facilities, Novotel give access to his guests to the nice panoramic view roof swimming-pool and fitness centre.



## **Social Activity**

There is no visit or trip to Athens without visiting the most famous historical monument of Greece, the Acropolis.

The participants will leave from the hotel with a bus that will bring them to the entrance of the site from where two professional guides will take the groups and dive together in the history of Greece.

After the end of the visit, the participants will take a short walk through the old city for reaching a Greek traditional restaurant where the menu will delight the participants.



## Porto - PT

### Hotel

The **Mercure Porto Centro** is a 4-star hotel ideally located in the heart of Porto, allowing guests to explore the city on foot and discover the places that made the "Unvanquished City" a UNESCO World Heritage site: the Ribeira district, the Torre dos Cléris bell tower and the famous Majestic Café. With 147 rooms, guests can enjoy optimum comfort and first-rate services, including free WIFI access, a restaurant and paid parking, as well as 4 fully equipped meeting rooms.

The 147 rooms provide to the guests air conditioning, cable and satellite TV, minibar, safe and hairdryer. WiFi is free and available in the entire hotel.

The hotel has 4 fully equipped meeting rooms from with natural light and capacity for up to 200 people on a maximum surface of 120 m<sup>2</sup>.



## **Social Activity**

From the city's heart where the hotel it is located, all main touristic attractions are just a just a short walk away. The tour will start from the hotel where the two professional guides will lead their group delving into the rich history of Porto beginning with ancient Romans and ending with the Moors and the French. They will see how these cultures influenced the local architecture that still stands today in the historic centre.

Stroll past Romanesque walls on their way to the Porto Cathedral and Baroque architecture by the Church of Santa Clara. And no visit to Portugal is complete without gazing upon the beautiful Moorish tiles that adorn many buildings in the area.

From the city centre, the groups will precede towards the Ponte de Dom Luis I and look out upon the Douro River and traditional Rabelo boats. These boats were used to transport the grapes to the wine cellars which are the next stop on the tour. And no tour in Porto can end without learning about the process of making fortified wine before reaching Ribeira Square where the restaurant which will provide typical local dishes will delight the participant's pallet and taste. And of course, cannot be a dinner in Porto without tasting the traditional and well known porto wine.



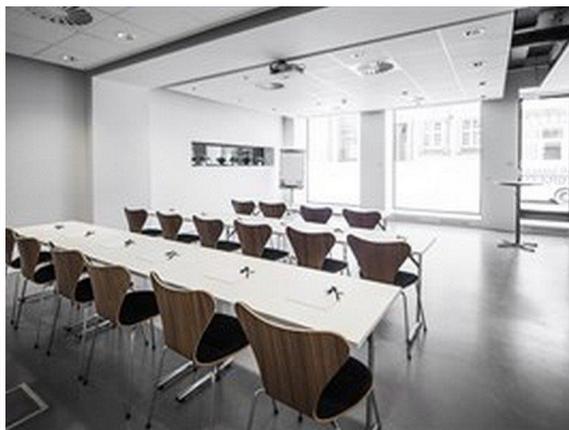
## Copenhagen - DK

### Hotel

**AC Bella Sky Hotel** in Copenhagen is the hotel selected for hosting the training course. It is located at the airport for facilitating the field visit. A shuttle to the city is available and it is close to the metro station.

It has unique architecture and boutique rooms, featuring premium amenities, floor-to-ceiling windows and a 4-star spa

It has modern conference rooms with all necessary AV equipment.



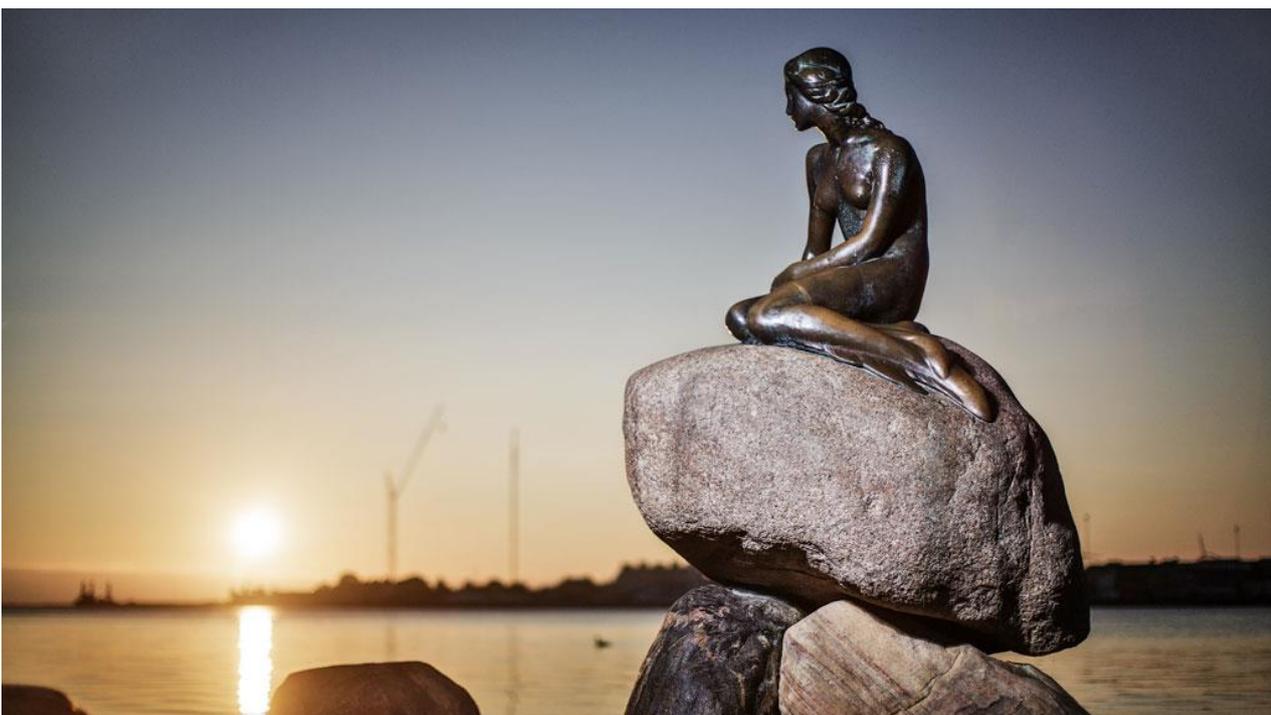
## **Social Activity**

Most of Copenhagen's most popular attractions and sights are within walking distance. And the city has so much more to offer than the three most famous ones; Tivoli Gardens, the statue of The Little Mermaid, and the freetown of Christiania. With a history that dates back to 1043, the city is full of historic landmarks, significant buildings and interesting sights.

For the social activity we will offer to the participants a walking tour in the city with two experienced and professional English speaking tour guides who will highlight the most iconic and representative sites and historic points the city, not forgetting to pass and walk along the canal area known as Nyhavn which originally was a busy commercial port.

Amalienborg Palace is a must for anyone with a taste of history and this place is part of Danish national patrimony as currently still being used by the royal family who resides inside.

And a tour of Copenhagen cannot be completed without tasting the Nordic cuisine which includes dishes like Rød pølse or Smørrebrød, menu which will be served in one of the many traditional restaurants located in the city.



#### **4. Invitation of your Country**

The CHAFEA wishes to invite a limited number participants from your country to attend these training courses (see quota list attached to the email).

However, **do not hesitate to send us additional applications**, which would be placed on a **reserve list**.

Should there be any availability, we would inform the National Contact Point at least three weeks before the training session.

**As much as possible, do not hesitate to send us registration forms before the indicated deadline.**

The earlier participants are registered, the easier it is then to carry out the organisation of the session.

**All costs related to logistics will be covered by our company.**

Our team will take care of all logistics such as: booking flights and hotels, meals and local transportations.

Please note that any extra costs (health insurance, VISA, mini-bar, phone calls and extra beverages in or outside of the hotel) will be at the participant's own charge.

## 5. Registration Procedure

The participants can be registered using the on-line after approval from the National Contact Point, procedure for which a guide you can find attached to the email, or by **filling out** the registration form attached to the email and **send it** to the National Contact Point of your country.

Once you will be registered, you will receive an automatic notification.

One of our agents will contact you approximately 2 months before the event for arranging your flight, transfers and accommodation.

## Agendas

### *Assessment of efficacy of plant protection products*

**DAY 1** - general principles of the efficacy evaluation of plant protection products in the framework of the Regulation (EC) No 1107/2009, practical guidance and discussion on the efficacy evaluation of PPPs.

TIME	Session Title	Session Objective	Tutors
<b>DAY 1</b>			
14.00-14.30	Welcome	Welcome and presentation of: -tutors -BTSF programs and course - BTSF video -presentation of each participants, and discussion of participants' role and professional background - Knowledge test	Ettore Capri (IT) (Maura Calliera)
14.30-16.30	Introduction to the efficacy evaluation of plant protection products (PPPs): Regulatory framework Risk mitigation principles of acceptable efficacy Zonal assessment	To provide guidance on general principles of the efficacy evaluation of plant protection products and pesticides active substances in the framework of the Regulation (EC) No 1107/2009	Maura Calliera (IT) (Ettore Capri)
16.30-17.00-	Break		

17.00-18.00	Introduction to the efficacy evaluation of plant protection products (PPPs): "Practical verification including the harmonized dose expression for the zonal evaluation of plant protection products. Hands on"	To provide guidance on general principles of the efficacy evaluation of plant protection products and pesticides active substances in the framework of the Regulation (EC) No 1107/2009. In practice exercises	Alberto Linguadoca (IT)
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DAY 2 - Principles of efficacy evaluation for low-risk plant protection products and related regulatory aspects + Field visit

TIME	Session Title	Session Objective	Tutors
<b>DAY 2</b>			
9.00-11.00	Addressing data requirements: minor uses and biological extrapolations	To stimulate discussion regarding the need of national guidance and harmonization of approaches at the zonal and EU level.	Emilia Markellou (GR)
11.00-12.00	"Hands on": efficacy evaluation of plant "protection product x" (reasoned case study)" Practical evaluation. The participants will be divided in groups to evaluate realistic uses of a representative PPP	To provide practical guidance and stimulate discussion on the efficacy evaluation of PPPs. In practice exercises	Emilia Markellou (GR) and Alberto Linguadoca (IT)

	(e.g., fungicide) using the available data and the principles of biological extrapolation.		
12.00-13.30	lunch time		

TIME		
14-00-16.00	FIELD Visit & demonstration activities Efficacy aspects: trial design and addressing minimum data requirements Risk mitigation for pollinators and resistance management in orchards and annual crops	Maura Calliera (IT) Alberto Piffanelli (local expert)
16.00.-16.30	coffee break	
16.30-18.00	Other Efficacy aspects: Influence of risk mitigation measures on the efficacy of a PPP.	Emilio Gil (ES) and Maura Calliera (IT)
18.00	return to hotel	

DAY 3 - harmonization among members state Principles of efficacy evaluation for low-risk plant protection products and related regulatory aspects. Half day

TIME	Session Title	Session Objective	
<b>DAY 3</b>			
09.00-10.45	On site wrap-up and workshop with participants divided in groups	<p>Exercise</p> <p>To provide guidance and promote harmonisation of assessment of the potential risk of resistance development and dose reduction</p> <p>Discussion on how to handle with the resistance risk analysis and the mitigation strategies proposed such as the use of drift reduction nozzles as well as other measures such as buffer zones, field margins, etc</p>	Emilio Gil (ES) and Maura Calliera (IT)
10.45-11.00 Break			
11.00-13.00	<p>Low risk substances:</p> <ul style="list-style-type: none"> <li>- Overview and regulatory aspects;</li> <li>- Microbial biocontrol agents, semiochemicals, botanicals;</li> <li>- Guidance documents;</li> </ul> <p>Q&amp;A</p>	<p>To provide guidance on the latest EPPO standard PP1/296(1)</p> <p>Principles of efficacy evaluation for low-risk plant protection products and related regulatory aspects.</p> <p>Harmonisation in emergence uses</p>	Marco Nuti (IT)

13.00 – 14.00	Conclusions	conclusion recommendation importance of dissemination and networking Distribution Certificates Knowledge test	
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## Course A (ii )

### *Toxicological risk assessment (Human health)*

DAY 1 - Difference between hazard and risk and the risk assessment evaluation approach: effects evaluation, exposure assessment, the significance of the relationship between effects and exposure, the importance of risk characterization

Date	Session	Session objectives	Tutors
<b>DAY 1</b>			
14:00-14:30	Welcome	Welcome and presentation of:	Ettore Capri (IT)

		<ul style="list-style-type: none"> <li>-tutors</li> <li>-BTSF programs and course</li> <li>-presentation of each participant, and discussion of participants' role and professional background</li> </ul>	
14:30-15:30	Lecture on the EU legislative framework	The EU legislative framework on pesticide risk assessment and sustainability. The concept of hazard, effect and risk. The importance of metabolites, , and the need for risk mitigation in thee context of human health risk assessment	Kyriaki Machera (GR) Dimitra Nikolopoulou (GR)
15:30-16:00	Coffee break		
16:00-16:45	Lecture on the General approaches to risk evaluation- Risk assessment	Effect Evaluation: general approaches to defining end points and other criteria related to intrinsic characteristic of the active ingredients and the dose that could express an effect on humans. Classification of products	Kyriaki Machera (GR) Dimitra Nikolopoulou (GR)
16:45-17:15	Group discussion	Analysis and exchange on human risk management at national level for plant protection products during the authorisations process.	Kyriaki Machera (GR) Dimitra Nikolopoulou (GR)
17:15-18:15	Dissemination activities and group discussion	To highlight the importance of dissemination networks and platforms available awareness raising campaign on sustainable use directive	Kyriaki Machera (GR) Dimitra Nikolopoulou (GR)
19:30-21:30	Dinner at the hotel		

DAY 2 - Human exposure evaluation and the use of mitigation measures

TIME	Session Title	Session Objective	Tutors
<b>DAY 2</b>			
9:00-10:00	Lecture on risk assessment:	General approaches for dietary risk assessment including exposure to metabolites	Christos Anagnostopoulos (GR)
10:00-10:30	Workshop: Presentation of EFSA Tools for consumer exposure	Current state of knowledge and tools to calculate the exposure and risk for consumers through diet How risk mitigation work in practice	Christos Anagnostopoulos (GR)
10:30-10:45	Coffee break		
10:45-11:45	Group exercise on dietary risk assessment and group discussion	Example of practical application Divide the trainees into working groups to discuss: -How dietary risk assessment is carried out in each country; - guidance given by the competent authorities and what control measures are taken; - using also information available on the web and national websites. - Implications of the risk mitigation strategies to be adopted	Christos Anagnostopoulos (GR)
11:45.-12:45	Reporting back	Presentation of the information discussed within the different working groups; The leader of each group will present key issues on a board for better understanding; Summary of the different points of view.	Christos Anagnostopoulos (GR)

		To be addressed environmental aspects of drift that affect exposure of humans	
12:45-13:45	Lunch break		

TIME	Session Title	Session Objective	Tutors
14:00-15:00	Lecture on non-dietary risk assessment / Demonstration of EFSA tool	<ul style="list-style-type: none"> <li>- General approaches for non-dietary risk exposure assessment (current state of knowledge, prevention and protection including Pesticide Protection Equipment).</li> <li>- Combined exposure</li> <li>- How mitigation works in practice</li> </ul>	Kyriaki Machera (GR) Dimitra Nikolopoulou (GR)
15:00-15:45	Lecture	<ul style="list-style-type: none"> <li>- Different sources of human exposure and procedures for the legal and safe management for storing, transporting, handling and mixing of PPPs; Safe disposal of empty packaging and of surplus PPPs</li> </ul> <p>Use of OpenTEA – video</p>	Kyriaki Machera (GR) Dimitra Nikolopoulou (GR)
15:45-16:15	Coffee break		

16:15-17:30	Workshop with practical exercise	Pesticide label reading and evaluation of label mitigation measures, including hazard and precautionary statements  Use of OpenTEA – quizzes	Richard Glass (GB)
17:30	Social event + Dinner		

### DAY 3

“Field visit – demonstration of exposure scenarios and mitigation measures

TIME	Session Title	Session Objective	Tutors
<b>DAY 3</b>			
9:00-9:45	Transport to field		
9:45-10:30	Field visit/ workshop	Demonstration of different exposure scenarios and level of protection.	Angelos Tsakirakis (GR)
10:30-11:00	Coffee break		
11:00-12:30	Field visit	Demonstration of safe storage, handling and mixing of PPPs, safe disposal.	Richard Glass (GB)
12.30-13.00	Closing of the training	Conclusions and recommendations Importance of dissemination and networking Distribution Certificates Knowledge test	Ettore Capri (IT)

## *Eco-toxicological risk assessment*

## DAY 1

Date	Session	Presentation	Tutors
<b>Day 1</b>			
13:30-13:50	Registration		TM
13:45-14:15	BTSF video Welcome- Introduction - Icebreaker	Introduction to Course aims, agenda, to tutors & participants, expectations, knowledge questionnaire	TC & TM
14:15-15:00	Session 1a	Presentation 1a: general protection goals in ERA- Unwrapping the EU legislative framework in the evaluation of PPPs: in the context of the EU legislative framework on pesticide risk evaluation and sustainability including the pesticide package, information on IPM and the different methodologies available and the link with other regulations as the WFD (the Directive 2000/60/EC) The importance of risk mitigation and mitigation strategy.	Ettore Capri (IT)
15:00-15:45	Session 1b	Presentation 1b: Ecotoxicological Risk Assessment (basic principles, steps); problem formulation and hypothesis testing; specific protection goals	Evgenia Chaideftou (GR) & Willie Peijnenburg (NL)
15:45-16:15	Coffee break		
16:15-17:30	Breakout Session 1	Practical 1: Specific protection goals & Drafting parts of problem formulation.	Evgenia Chaideftou (GR) & Willie Peijnenburg (NL)
19:30-21:30	Dinner at the hotel		

## DAY 2

Date	Session	Presentation	Tutor
<b>Day 2</b>			
9:00-10:00	Session 2	Presentation 2: Hazard/ Effect characterisation (Effect assessment). From screening to first tiers (also information and discussion on approaches and current state of knowledge on models to defining end points and other criteria related to intrinsic characteristic of the active ingredients and the dose that could express an effect on non-target organism)	Evgenia Chaideftou (GR) & Willie Peijnenburg (NL)
10:00-10:30	Breakout Session 2	Practical 2: Effect characterisation in ERA. Exercise from Aquatic GD PPPs.	Evgenia Chaideftou (GR) & Willie Peijnenburg (NL)
10:30-11:00	Coffee break		
11:00-12:00	Session 3	Presentation 3: Exposure characterisation in ERA. Exposure evaluation general approaches on chemical, physical characteristics that influence the fate of a chemical in the environment and current state of knowledge on multimedia fate models.	Willie Peijnenburg (NL) & Sebastian Stehle (DE)
12:00-13:00	Breakout Session 3	Practical 3: exposure pathways (e.g. PPP NTAs GD) & procedures/ models; Example of model application to define and to understand the fate and behaviour of a pesticide active ingredient, to understand the movement of a chemicals in the environment and to predict a concentration in different environmental compartments	Willie Peijnenburg (NL) & Sebastian Stehle (DE)
13:00-	Lunch		

14:00			
14:00-15:00	Session 4	Presentation 4: Risk characterisation (comparison of effect with exposure); General approach in defining the non-target organism, the food chain, the bioaccumulation and biomagnification, the ecosystems and examples of risk characterisation.	Evgenia Chaideftou (GR) & Willie Peijnenburg (NL) & Sebastian Stehle (DE)
15:00-15:30	Coffee break		
15:30-16:30	Breakout Session 4	Practical 4: Endpoint and risk assessment exercise from EFSA Guidance on PPPs (e.g. Aquatic GD, or ERA of soil organisms)	Evgenia Chaideftou (GR) & Willie Peijnenburg (NL) & Sebastian Stehle (DE)
17:30	Social Event + Dinner		

### DAY 3

Date	Session	Presentation	Tutor
Day 3			
8:00-10:00	Meeting at the hotel and travel for the Field visit		TC & TM
10:00-12:30	FIELD Visit & demonstration activities in Coimbra, part A		Paulo Sousa (PT)
12:30-14:00	Lunch		
14:00-16:00	FIELD Visit & demonstration activities in Coimbra, and Wrap-up, part B		Paulo Sousa (PT)
16:00-16:30	Coffee break		
16:30-18:00	Return to the Hotel		TC & TM
19:30 -	Dinner		

21:30

DAY 4

Date	Session	Presentation	Tutor
Day 4			
9:00-10:45	Session 5	Workshop with the use of video and tutor material or selected in OPENTea: Point Source Contamination and Diffuse Source Contamination	Gabriele Sacchetini (IT) (Maura Calliera)
10:45-11:00	Coffee break		
11:00-12:30	Breakout Session 5	Practical 5: Dissemination activities: Introduction led by tutor Divide the trainees into working groups to discuss: -the importance of dissemination -platforms networks available -awareness raising campaigns and material at different national levels Group discussion analysis and exchange on risk assessment methodologies applied at national level for the assessment of plant protection products and authorisations process.	Gabriele Sacchetini (IT) (Maura Calliera)
12:30-14:00	Lunch		
14:00-15:30	Session 6	Presentation 6: Non-target exposure evaluation and the mitigation measures applicable: tools available for the evaluation of different sources of exposure (The decision supporting systems available to prevent environmental contamination after a pesticide treatment; the comparative	Maura Calliera (IT) (Gabriele Sacchetini)

		management assessment) Workshop with the use of video and tutor material or selected in OPENTea or in other platform as TOPPS (diagnostic tools of run off in different contexts; drift diagnosis tools: machine calibration and SDRT and Mitigation Measure for drift limitation in different contexts)	
15:30-16:00	Coffee break		
16:00-17:00	Breakout Session 6	Practical 6: Case study: Tutor will present the MAgPie toolbox of measure and guideline available for management of pesticide risk; and Practical exercise on mitigation measure: trainees act out a real-life situation Group discussion	Maura Calliera (IT) (Gabriele Sacchetini)
17:00-18:30	Session 7	Training activities using the on-line and off-line self-directed training materials: Each group of participant will prepare and will present a 10min training session and the other groups participate with question and answers & reporting back	Maura Calliera (IT) & Gabriele Sacchetini (IT)
19:30 - 21:30	Dinner		

#### DAY 5

Date	Session	Presentation	Tutors
Day 5			

9:00-10:30	Session 8	Presentation 8: Special issues in ERA, for instance: Higher tier issues in Effect Assessment of PPPs; Life stage Analysis-its importance (species vulnerability) - its relevance with recovery in space and time; updated ERA schemes; how to deal with uncertainty.	Evgenia Chaideftou & Willie Peijnenburg & Sebastian Stehle
10:30-11:00	Coffee break		
11:00-12:00	Session 9 Evaluation Session	Wrap-up discussion on the MAgPie and related mitigation, and ERA approaches; On-line evaluation by the participants; Evaluation of the ERA course and the tutors- knowledge questionnaire	TC & TM
12:00-12:30	conclusion recommendation importance of dissemination and networking Distribution certificates Knowledge test		TC
12:00-14:00	Lunch		

NOTE for EC:

The importance of risk mitigation and mitigation strategy will be elaborated throughout the training duration and therefore relates to the overall agenda. To ensure it is clear and explicitly stated in the agenda, namely is clearly included in the aims of this training and training-time is devoted to it, we have included this topic in the first introductory lecture and also this will be highlighted in our concluding remarks of the last session, because it is important as a „take home“ message serving thus the aims of the BTSF. Examples of EU-MSs mitigation will be discussed during the sessions of the trainings and the trainees will be provided the motivation to further practice on related questions they may have in PPP authorization.

## Course 2 (ii)

### *Assessment of the environmental fate and behaviour of PPPs in soil, water and air*

MODULE 1 DAY 1 Afternoon and DAY 2 full day

Difference between hazard and risk and the risk assessment evaluation approach: effects evaluation, exposure assessment, the significance of the relationship between effects and exposure, multimedia fate models and the importance of risk characterization

#### DAY 1

TIME	Session Title	Session Objective	Tutors
<b>DAY 1</b>			
14-15.30	Welcome	Welcome and presentation of: -tutors -BTSF programs and course -presentation of each participants, and discussion of participants' role and professional background - BTSF video - Knowledge test	Ettore Capri (IT)
15.30-16.30	Lecture on the EU legislative framework	The EU legislative framework on pesticide risk evaluation and sustainability including information on IPM and the different methodologies available and the link with other regulations such as the WFD (Directive 2000/60/EC ) Introduction to the use of	Alexandru Marchis (RO)

		mitigation strategies and the MagPIE toolbox	
16.30-16.45	Coffee Break		
16.45-17.30	Group discussion	Analysis and exchange on evaluation and risk assessment procedures applied at national level for the assessment of plant protection products and authorisations process and National Action Plans	Alexandru Marchis (RO)

## DAY 2

TIME	Session Title	Session Objective	Tutors
<b>DAY 2</b>			
9.00-10.00	Lecture on General approaches to risks evaluation - Risk assessment	Effect Evaluation: general approaches and current state of knowledge on models to defining end points and other criteria related to intrinsic characteristic of the active ingredients and the dose that could express an effect on non-target organisms, POPs, tiered approach and cut-off criteria	Anne Louise Gimsing (DK) in Denmark Joris Ingeborg (BE) in Belgium
10.00-11.00	Lecture on General approaches to risks evaluation- Risk assessment	Chemical and physical characteristics that influence the fate of a chemical in the environment	Anne Louise Gimsing (DK) in Denmark Joris Ingeborg (BE) in Belgium
Coffee break			

11.15- 12.15	Lecture on General approaches to risks evaluation - Risk assessment	Current state of knowledge on multimedia fate models to define and to understand the fate and behaviour of a pesticide active ingredient and to predict a concentration in soil air and water	Maura Calliera (IT)
12.15-12.45	Case study: practical exercises with participants divided in groups	Examples of applications and results of models used to define and to understand the fate and behaviour of a pesticide active ingredient and to predict a concentration in different environmental compartments Learning how to collect information, assess the quality of data for applying the models.	Anne Louise Gimsing (DK) in Denmark Joris Ingeborg (BE) in Belgium) and Maura Calliera (IT)
12.45-13.00	Question and answer session	Feedback from case studies	
lunch			
14.00-1600	Lecture: modelling approaches for e-fate	Option to refine the modelling assumptions from conservative default parameters to more realistic conditions. The integration of models and geographical information systems (GIS) for a better calibration of the procedure and the validation of exposure	Anne Louise Gimsing (DK) in Denmark Joris Ingeborg (BE) in Belgium

		prediction and risk assessment	
coffee break			
16.15-17.30	Case study: practical exercises with participants divided in groups	Application of mitigation practices	Anne Louise Gimsing (DK) in Denmark Joris Ingeborg (BE) in Belgium

### DAY 3

TIME	
8.00-10.00	Meeting at the hotel and travel to the demonstration site
10.00-12.30	Field Visit & demonstration activity: field monitoring studies and mitigation measures in practice By Anne Louis Gimsing or Inge (depending on the site)
13.00-14.00	Lunch
14-00-16.00	Wrap-up: Example of risk assessments for pesticide application per crop including mitigation strategies in real field studies.  by Katerina Kyriakopoulou
16.16.30	Coffee break
16.30	Return to hotel

#### DAY 4

TIME	Session Title	Session Objective	Tutors
<b>DAY 4</b>			
9.00-11.00	Point Source Contamination	Inventory of mitigation measures Best practices	Ettore Capri (IT)
11 -11.20	Coffee break		
11.20-13.00	Diffuse contamination	Inventory of mitigation measures (MagPie toolbox), the evaluation of their efficacy taking into account the additional effect of multiple mitigation measures.	Gabriele Sacchetti (IT)
13.00-14.00	Lunch		
14.00-17.00	Case study: practical exercises with participants divided in groups	Application of the tiered approach to the case studied Apply the mitigation strategies for PS and NPS Apply OpenTEA – quizzes and video	Gabriele Sacchetti (IT)

#### DAY 5

TIME	Session Title	Session Objective	Tutors
<b>DAY 5</b>			

9-11	Report back from the participants	Presentation of the lecture prepared within the different working groups per crop/pesticide in the case studies developed the previous day.	Gabriele Sacchetti (IT)
11.00-11.20	Coffee Break		
11.20-12.30	Lecture: Metabolite and cut off-of criteria assessment	Practical example on how assess and apply the EFSA guideline	Katerina Kyriakopoulou (GR)
12.30-13.00	Conclusion	Conclusions and recommendations Importance of dissemination and networking Distribution Certificates Knowledge test	Ettore Capri (IT)