

# EU Minor Uses a Place for Biocontrol Solutions

Jeroen Meeussen

EU Minor Uses Coordination Facility

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- ▶ EU Minor Uses: a bit of history
- ▶ The EU Minor Uses Coordination Facility
- ▶ Biocontrol Solutions



# EU Minor Uses a Place for Biocontrol Solutions



# Minor Uses - definition

## Regulation (EC) 1107/2009 - Article 3(26):

Use of a plant protection product in a particular Member State on plants or plant products which are:

(a) **not widely grown** in that Member State,  
or

(b) **widely grown** to meet an **exceptional** plant protection need

► **Is this a workable definition?**

# Minor Uses - Importance

Representing **22%** of the value of the entire EU plant production value; **3%** of the cultivated area.



Across the EU these minor crops represent a value of more than **70 billion Euros** per year.

# Report on Minor Uses

## Article 51(9):

- ▶ "By 14 December 2011, the Commission shall present a report to the European Parliament and the Council on the establishment of a European fund for minor uses, accompanied, if appropriate, by a legislative proposal".
- ▶ Report was adopted on **18 February 2014**.

## Key-messages:

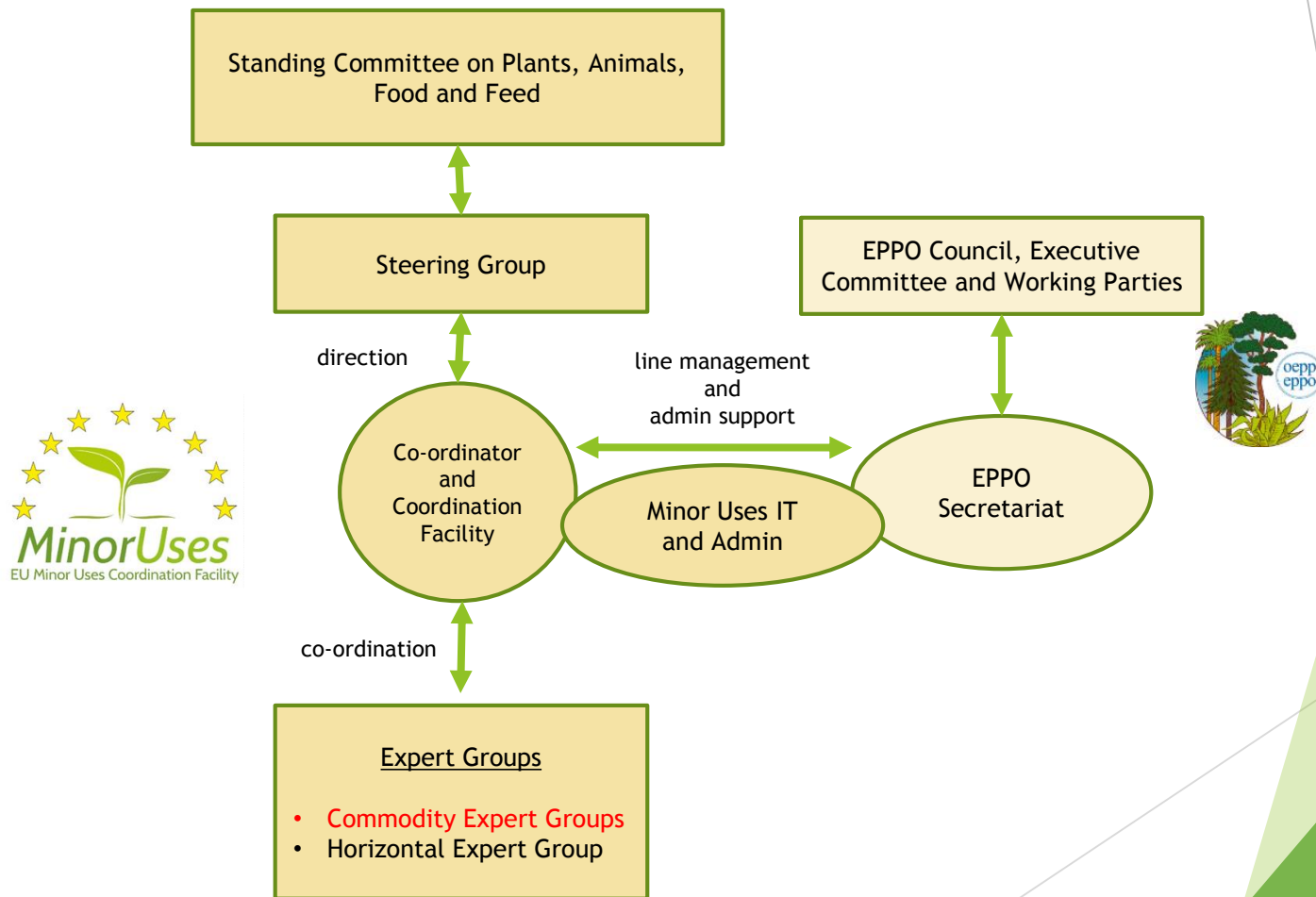
- ▶ the creation of an **independent Coordination Facility** on minor uses which is co-funded by the Commission;
- ▶ Commission will support an **ERANET on Integrated Pest Management** with specific reference to minor uses.

# Coordination Facility

- ▶ Hosted by EPPO (in Paris) and jointly funded by the EU and by the governments of France, Germany and the Netherlands.
- ▶ Grant contract was signed on 15 April 2015.
- ▶ Coordinator started 1 September 2015.



# Diagram of relationship





# Coordination Facility - Mission

The mission of the Facility is 'to enable farmers in the EU to produce high quality crops by filling minor uses gaps through **efficient collaboration** to improve availability of **chemical** and **non-chemical** tools within an **integrated pest management** (IPM) framework'.



# Member States and Stakeholders

(growers, industry, international organisations)



# Sustainable Use Directive

## 2009/128/EC

- ▶ Achieve a sustainable use of pesticides by promoting the use of **Integrated Pest Management (IPM)** and of alternative techniques such as **non-chemical methods**.
- ▶ IPM:
  - **Low** pesticide input management;
  - Consideration of **all** available plant protection measures;
  - Pests and diseases kept at levels which are **economically** and **ecologically** justifiable;
  - **Healthy crops** with **least possible disruption** to agro-ecosystems.

# Definition of "non-chemical methods"

- ▶ 'Non-chemical methods' means alternative methods to chemical pesticides for plant protection and pest management, based on agronomic techniques, or physical, mechanical or **biological pest control methods**;



# Increasing Interest in Biological Control

- ▶ It fits within **IPM-strategies** for a sustainable agriculture.
- ▶ To overcome problems with **resistance**. Applications with conventional chemicals can be alternated with biological control.
- ▶ **Residues**. More and more large supermarkets apply a zero-residue policy. When replacing the last chemical treatments by biological a zero-residue situation can be achieved.
- ▶ The **lack of new active substances**.

# C-IPM-ERANET

- ▶ ERANETs are **research coordination instruments** whereby Member States can coordinate their National research activities and ultimately fund joint projects.
- ▶ **C-IPM** stands for 'Coordinated Integrated Pest Management in Europe'.
- ▶ **C-IPM-ERANET Work Package 3**: to identify IPM solutions for use in minor crops or to address situations of exceptional plant protection needs in major crops.
- ▶ This IPM research programme focuses on **non-chemical** alternatives.
- ▶ **Optimisation** of pesticide use within 'current' crop protection systems, **substitution** via the adoption of non-chemical strategies, and to a **redesign** of current production systems.



# C-IPM-ERANET

## ► Minor Uses Research proposals:

### Cabbage root fly and carrot fly

- Improve Decision Support Systems (predictive tools)
- Integration of biocontrol solutions

### Mites in berries and small fruits

- Improve knowledge of biology of pest and predators and their interactions

### Soil borne pests and diseases

- Develop new biological control agents for key pests by improving the knowledge of relationship between:
  - the crop and its pests,
  - pests and their antagonists and/or natural enemies



# Commodity Expert Groups

Currently there are 6 Commodity Expert Groups:

- ▶ CEG fruit and vegetables
- ▶ CEG ornamentals
- ▶ CEG tobacco
- ▶ CEG rice
- ▶ CEG hops
- ▶ CEG seeds





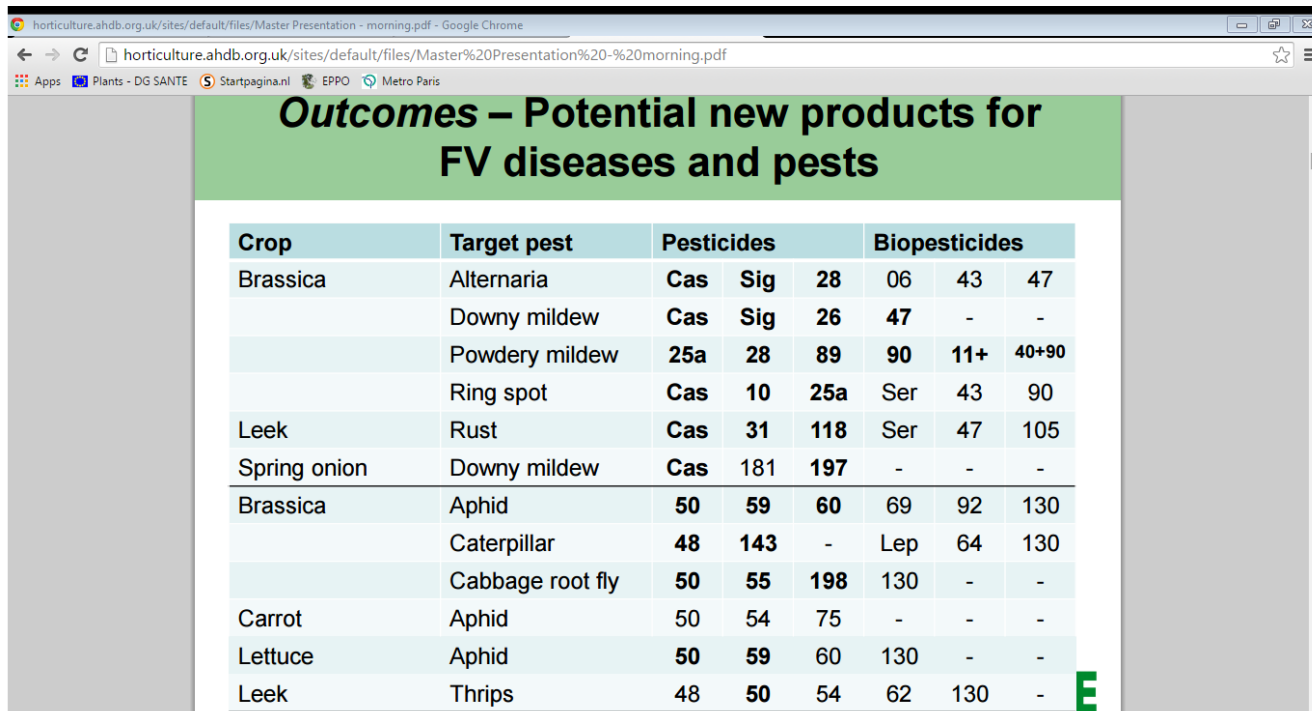
# Ongoing Projects CEG

<b>Project</b>
-Milbemectin
-Cyazypyr
-Control of Senecio vulgaris in herbs and salad -Control of Poa annua
-Flonicamid
-Dimethenamid-P
-Metobromuron
-Spinetoram

<b>Pest/Crop</b>	<b>a.i. / ppp</b>
Spider Mites	Bifenazate/ Acramite
Spider Mites/	Acequinocyl/ Kanemite
Spider Mites/	Cyflumetofen
Aphids/	Sulfoxaflor/ Isoclast
Aphids/	Flupyradifurone
Downy mildew	Captan
European corn borer, Rosy rustic moth	Chlorantraniliprole

# SCEPTRE (UK)

Potential new pesticide and/or biopesticide products have been identified to fill many of the crop protection gaps on edible crops arising from changing legislation.



The screenshot shows a web browser window with the URL [horticulture.ahdb.org.uk/sites/default/files/Master%20Presentation%20-%20morning.pdf](http://horticulture.ahdb.org.uk/sites/default/files/Master%20Presentation%20-%20morning.pdf). The page title is "Outcomes – Potential new products for FV diseases and pests". The table below lists various crops and their associated pests, along with the number of pesticides and biopesticides identified for each.

Crop	Target pest	Pesticides			Biopesticides		
		Cas	Sig				
Brassica	Alternaria	Cas	Sig	28	06	43	47
	Downy mildew	Cas	Sig	26	47	-	-
	Powdery mildew	25a	28	89	90	11+	40+90
	Ring spot	Cas	10	25a	Ser	43	90
Leek	Rust	Cas	31	118	Ser	47	105
Spring onion	Downy mildew	Cas	181	197	-	-	-
Brassica	Aphid	50	59	60	69	92	130
	Caterpillar	48	143	-	Lep	64	130
	Cabbage root fly	50	55	198	130	-	-
Carrot	Aphid	50	54	75	-	-	-
Lettuce	Aphid	50	59	60	130	-	-
Leek	Thrips	48	50	54	62	130	-

# ECOPHYTO (FR)

Which options to reduce pesticide use?

- ▶ Exposure to pesticides and human health
- ▶ Biocontrol solutions
- ▶ Novel technologies
- ▶ Genetic solutions
- ▶ Integrated approach
- ▶ Impact to the environment




# Global Minor Use Workshop

20-22 September 2015, Chicago (USA)

## Priority projects

	Priority A
Glasshouse	<b>Aphids, lettuce</b> Flonicamid, Pymetrozine, Cyantraniliprole, Sulfoxaflor
Temperate	<b>Downy mildew, leafy vegetables</b> Zoxamide, Acibenzolar, Ametoctradin + Dimethomorph, Fluopicolide + Propamocarb, Cyazofamid, Oxathiapiprolin, Famoxadone + Cymoxanil
Tropical	<b>Fruit flies, inedible peel</b> Spinosad, Cyantraniliprole, Kaolin


# Databases





**PPPAMS**  
Plant  
Protection  
Products  
Application  
Management  
System

Status Update

**EPPO codes: a few general principles**

1 biological entity = 1 unique code 

**Change of preferred scientific name:**  
*Gnathoschisma absoluta* = *Tuta absoluta*  
⇒ The code GNORAB remains the same 

**Newly described species:**  
*Phytophthora pinifolia*  
⇒ A new code PHYTPF is created 

# Recommendations



- ▶ Increase role of growers and agricultural advisory services
- ▶ Increase knowledge Crop-Pest-Predators: biology and interactions
- ▶ Improve timing of application of pesticides
- ▶ Increase information sharing and communication: currently knowledge and research is fragmented
- ▶ Aim for an integrated approach



## Role of Biocontrol industry:

- ▶ Production of biopesticides: Quantity, quality and logistics
- ▶ Bigger portofolio: aim to cover all pests and diseases in a specific crop
- ▶ Active participation in CEGs and other (national) projects
- ▶ Pro-active: work together across borders

# Toolbox



# EU Minor Uses a Place for Biocontrol Solutions





# THANK YOU FOR YOUR ATTENTION



## ANY QUESTIONS



Jeroen Meeussen  
Coordinator  
European Union Minor Uses Coordination Facility  
21 boulevard Richard Lenoir  
75011 Paris  
FRANCE

T +33(0)1 84 79 07 55  
F +33(0)1 70 76 65 47  
M +33(0)7 60 82 22 36  
E [jeroen.meeussen@minoruses.eu](mailto:jeroen.meeussen@minoruses.eu)

website: [www.minoruses.eu](http://www.minoruses.eu) (under construction)