

# Sectoral and Geographical Mapping of Uptake of Organic Production Methods

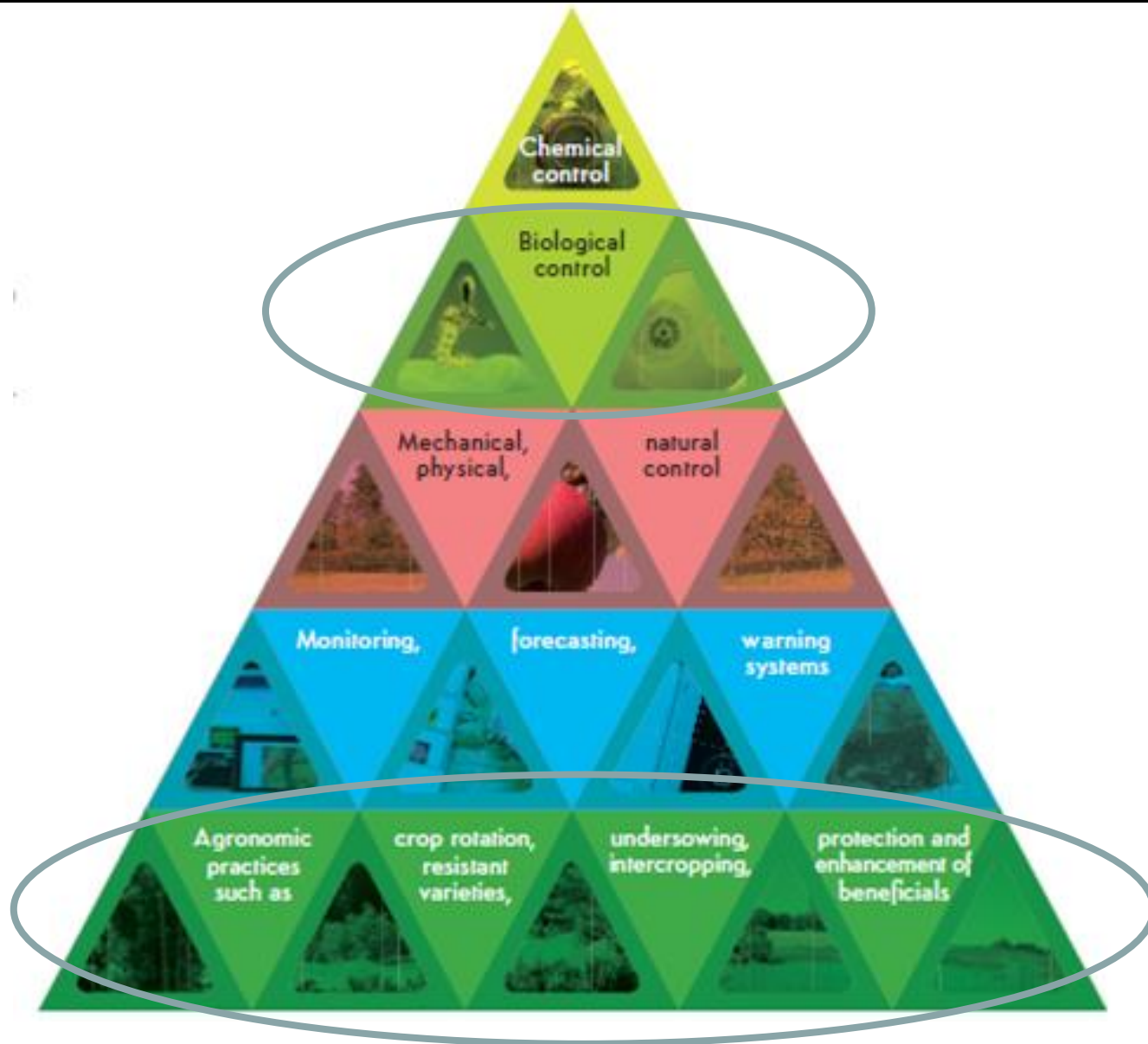
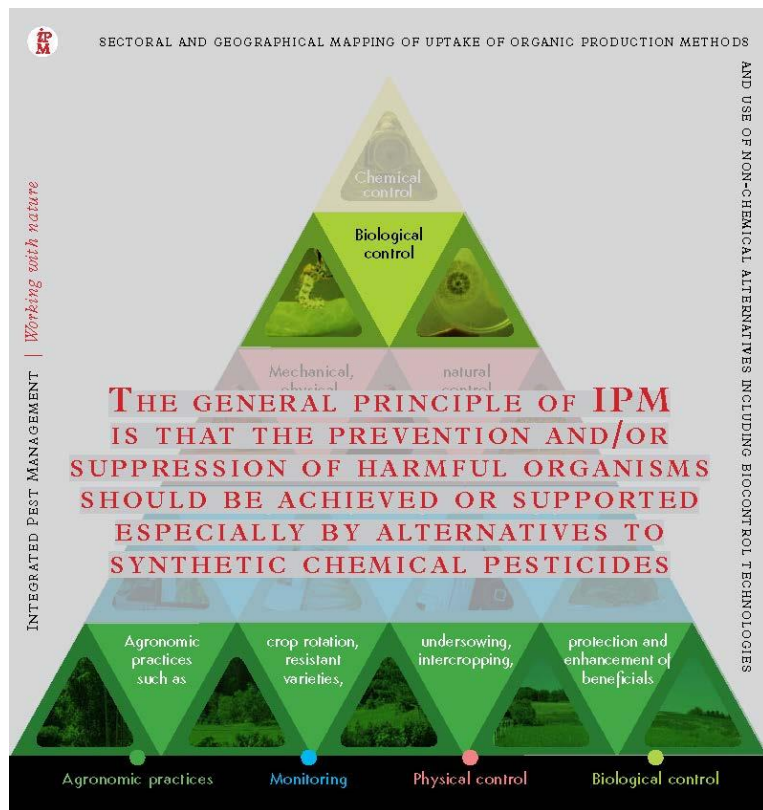
- **Jennifer Lewis**
- **Executive Director - International Biocontrol Manufacturers Association**



# Outline of Presentation

- Integrated Pest Management
- Crop areas under biocontrol
- Farmer Experiences in implementation
- What have we learnt about implementation
- What do we need to do to accelerate the uptake

# Integrated Pest Management (IPM) Triangle





**CLOSE TO 100% OF GREENHOUSES GROWING PROTECTED VEGETABLES USE BIOCONTROL.**

**GROWERS USE IT IN UP TO 90% OF THE CASES TO CONTROL PEST AND DISEASES**

**PEST AND DISEASES**



Agronomic practices

Monitoring

Physical control

Biological control



**Close to 100% of Greenhouses Growing Fruit and Vegetables use biocontrol**





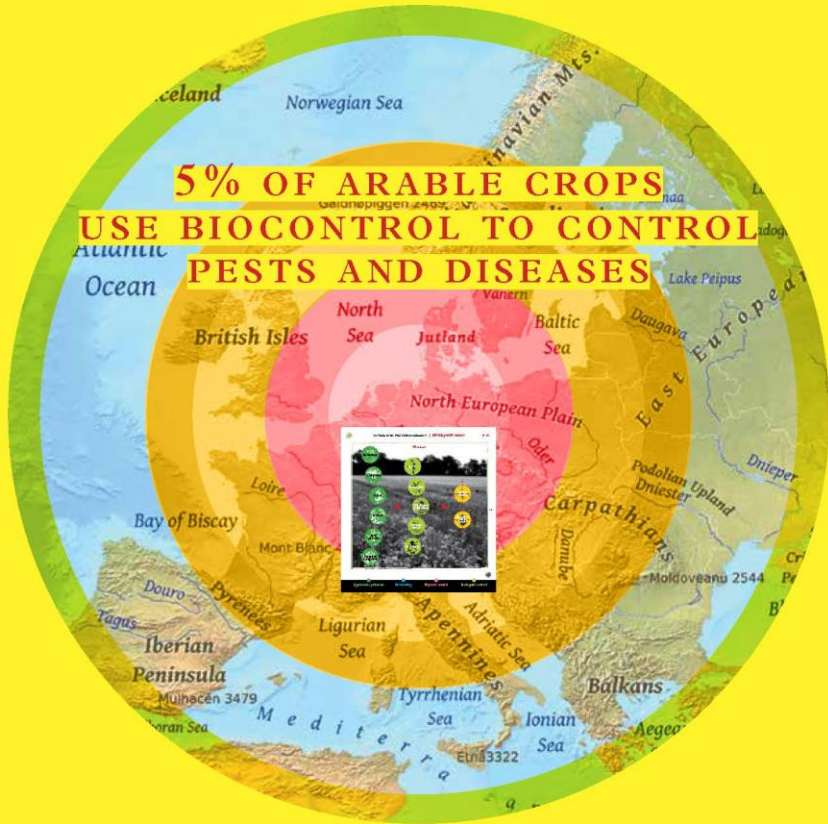
Agronomic practices    Monitoring    Physical control    Biological control



Photo : cbc-europe.com

Approximately 20% of EU Vine Growing area uses pheromones and other biocontrol technologies





Agronomic practices

Monitoring

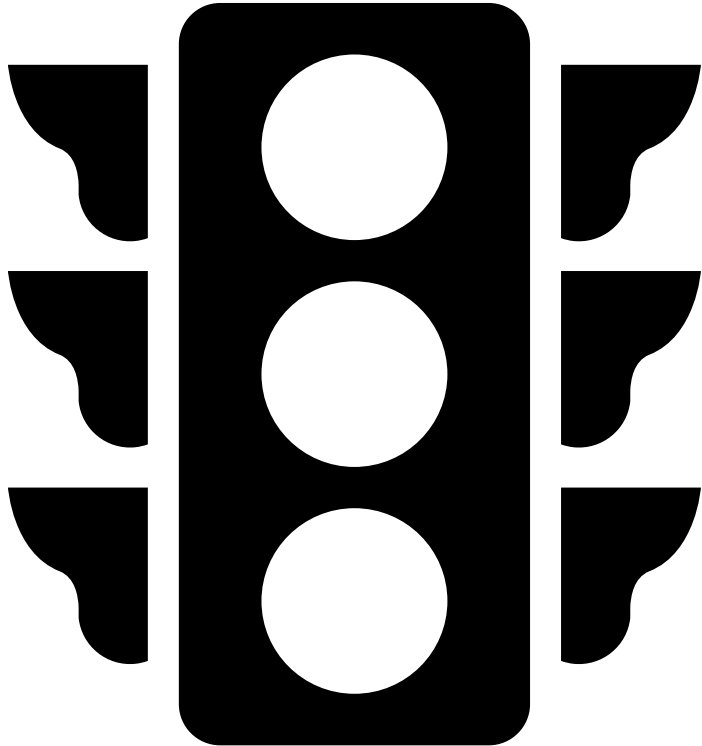
Physical control

Biological control



Less than 5% of arable crops use biocontrol

# Status of uptake of biocontrol and alternatives is more advanced in horticulture than arable



- Arable
- some good examples
- But a lot to do



- Vines
- many good examples
- work in progress



- Protected Crops
- Normal practice





Farmer Experience of  
Pheromone development  
in Vineyards



# 100% OF LUXEMBOURG VINE GROWING AREA (1 296 HA) COVERED BY PHEROMONES



“For now more than ten years, we have been working with [pheromon] dispensers

against vine moth. In Luxembourg the entire wine surface is being treated with dispensers

and we work well with it... Since then, we do not use insecticides anymore”



# 70% OF THE SWISS VINE-GROWING AREA (10 500 HA) COVERED BY PHEROMONES



“Today, with a hindsight of over more than 20 years,

we can prove that attacks in vineyard under confusion are

always lower than in conventional ones.”







Mating disruption

# 100% OF THE VINE GROWING AREA (9 700 HA) IN MEZZOCORONA TRENTO COVERED BY PHEROMONES

CLAUDIO IORIATTI  
FONDAZIONE  
EDMUND MACH

“Pheromones uptake was easy because the decision was not

left for the individual farmers but was taken by the organisation.”







Farmer Experience of  
Biocontrol  
development in  
Arable



# 5% OF ARABLE CROPS USE BIOCONTROL TO CONTROL PESTS AND DISEASES

JEAN PHILIPPE PETILLON  
-RICHE VILLE



“It takes a few years,  
but you start to see  
the results: the figures

“speak for themselves.  
The farm is turning  
into a profit.”







## Can We Discover Wheat Varieties Better Suited To Organic Farming?

27 November 2019

Many organic farmers rely on conventional varieties bred for high inputs, with the twin goals of yield and disease resistance prized above all else. This approach makes sense for the environments these crops will generally be grown. However, the problem for most organic farmers is that the traits of nutrient scavenging and weed suppression are ignored in the face of a full mineral fertiliser and herbicide regimes.

The typical organic arable farmer finds weeds and soil fertility, or at least nitrogen availability, the biggest agronomic challenge with the varieties on offer generally not considered fit for



### Meet the author

**Dominic Amos**

Dominic works at the Organic Research Centre, having joined to pursue research interests in sustainable cropping and soils

- Need a trigger to start IPM
- Farmer to farmer networks –led by farmers for farmers
- Multiple actors to help – advisers, researchers, companies
- Biocontrol works
- Be patient

# What have we learnt from implementation?



**Biocontrol  
is a reality:  
What do we  
need to do to  
accelerate  
the uptake?**

- Proportionate regulation - more products to market faster
- Farmer to farmer sharing of best practice
- In field participation and training from researchers, advisers and companies
- Financial incentives to adopt new ways of farming



“Biological life is a force and once unleashed it will continue to grow and generate new life”

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Gabe Brown (2018) – Author of from “Dirt to Soil”



Thank you for listening

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- **Executive Director - International Biocontrol Manufacturers Association**

