

# Certis Belchim



## **Growing For The Future**

Madrid, 5<sup>th</sup> October 2023



## Certis Belchim G4TF & Food Chain Value Proposition



- To create present and future sustainability of our agriculture, supporting food production based on food security, and on a final benefit for the entire value chain (Food Chain) - growers, retailers and supermarkets, and the final consumer.
- To satisfy the current requirements that European supermarkets and consumers are demanding from our fruit and vegetable producers, and to be a high leader contributor to FFTF European directive.
- The current portfolio of Certis Belchim Europe, based on Biorationals and Chemicals, allows the creation of
  "IPM G4TF protocols" that solve the problem of pests and diseases in different crops, helping our producers and technicians to collect and send fruits and vegetables fully adapted to the requirements of supermarkets and consumers, supporting growers to produce without Residues, reduce the environmental impact, improve biodiversity and be part of EU technology transfer.



#### 5 elements, to develop our project



*GROWING FOR THE FUTURE*  Technical Support for Growers:

Evaluation of improvement: (The 5 KPI's)

> Innovation: new IPM Programs and Organic farming, in collaboration with growers & digitalization

New product development: Biorationales, Specialties Japan, Biostimulant

**Project adapted** 

to the needs of

consumers

(safety and sustainability)



## Our company, is committed to growers, sustainable agriculture and food safety





- Collaboration with growers
- CRO's & Labs
- Food Chain



 Solutions towards: Green deal, & EU strategies



• Food safety & Sustainability



## **The BIG Picture (3 levels)**





#### 1. European Green Deal (approved in 2020)

Set of proposals adopted by EU COM to reduce by at least <u>55% by 2030 greenhouse gas emissions</u> compared to 1990 levels and <u>aiming at making Europe a carbon neutral continent by 2050.</u>



#### 2. Farm To Fork (F2F) strategy: A pillar of the European Green Deal

Introducing of mandatory 50% use and risk reduction targets by 2030 for chemical pesticides via different pieces of legislation (revision of the Sustainable Use Directive (SUD) and orientation of the Common Agricultural Policy (ACP) National Strategic Plans.



#### 3. Sustainable Use Directive (SUD)

Aim: to reduce the risk and impacts of pesticide use on human health and the environment.

To achieve this, National Action Plans (NAP's) are adopted by Member States (IPM, reduction of use, indicators, ...)

Harmonized Risk Indicators (HRI's) were established to complement indicators at National level and to monitor the progress.

## **Key Performance Indicators (5) KPIs**



Pest control (Efficacy)

Reduction of high-risk chemical PPP, in IPM programs

Reduction of residues in fruits

**Reduction of the Environmental Impact from PPP** 

**Grower profitability** 

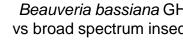


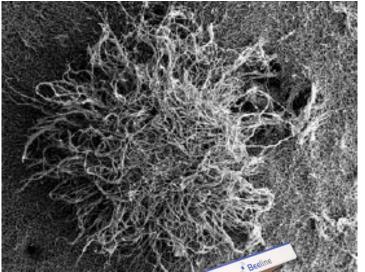
## **New IPM Tools: towards sustainable** agriculture & reduction of chemical

pesticides Pheromones: Matting disruption vs Lepidoptera



**Biorationals:** Beauveria bassiana GHA vs broad spectrum insects







Vegetation cover:

improves the structure of the soil and its capacity to retain water, and favoring biodiversity and the biological control of pests







Attract & Kill: Control of MedFly





## **Results (5) KPIs in perennial crops. CRO's results**

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FOR



KPIs	Lemon (Fino 49)	Mandarin (Orri)	Mandarin (Oronules)	Mandarino Clemenules	Mandarino (Orri)	Olivo (Arbequina)	Olivo (Arbequina)
Efficacy	equal	equal	equal	equal	equal	equal	equal
Reduction of chemical PPP	70%	67%	38%	63%	63%	equal	50%
Reduction of residues in fruits	100%	100%	100%	100%	100%	100%	100%
Reduction of Environmental Quotidien EIQ (program)	67%	48%	21%	99%	93%	2%	17%
Profitability	+14%	equal	equal	equal	equal	+13%	+23%

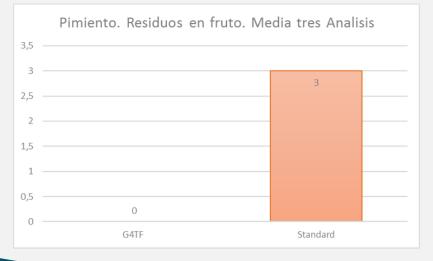


## **Results KPI's in peppers. Fully adapted to the new trends.**





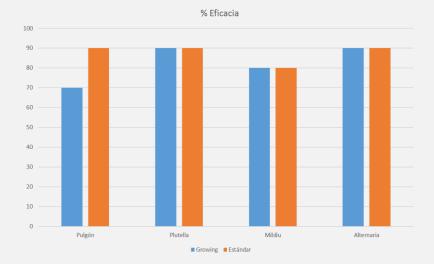


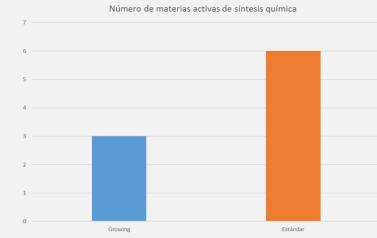


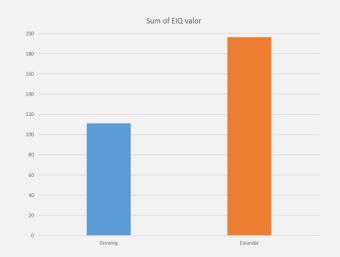


## **G4TF Brocoli. CRIKET KPI's**









- Pest & Diseases. Equal efficacy
- 50 % reduction use of chemical products
- No Residues . Food Safety
- 43 % Reduction Environmental impact

Growing

Estándar

Residuos (trazas)





### Results (5) KPIs in vegetable crops. CRO's results



KPIs	ΤΟΜΑΤΟ	PEPPER	CUCUMBER	LETTUCE	BROCOLI
Efficacy	Igual al estándar				
Reduction of chemical PPP	70%	67%	38%	63%	63%
Reduction of residues in fruits	100%	100%	100%	100%	100%
Reduction of Environmental Quotidien EIQ (program)	67%	48%	21%	99%	93%
Profitability	+14%	equal	equal	equal	equal



#### **Certis Belchim Transfer of Technology:** technical support to growers and technicians

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	INSECTICIDAS / ACARICIDAS BOTANIGARD BOTANIGARD 22 WP BOBREAKER MAX DELFIN: MAJESTIK MAJESTIK MEUDOSAN SONAR GTUREX GTUREX	FUNGICIDAS / BACTERICIDAS AMYLO-X' WG ARMICARB' Grifon KARBICURE \$ KDOS' KOCIDE' OPTI MALLEN' * Tri-Soil' VALCURE' VINCEC'	FEROMONAS CIDETRAK GAR CIDETRAK GAR CIDETRAK GAR CIDETRAK CLARACCEA MOLUSCUICIDAS IROXCX* MINIXXX* SLUXX*HP
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