



MINISTÈRE DE L'AGRICULTURE ET DE L'ALIMENTATION

*Liberté
Égalité
Fraternité*

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Director General

General Directorate for Food

Biological Control Conference

April 28, 2021 Lisbon



2021
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Biological control in France

2009

Directive 2009/128/CE
establishing a framework for
Community action to achieve the
sustainable use of pesticides

ANNEX III

General principles of integrated pest
management

Sustainable **biological**, physical and other
non-chemical **methods must be preferred**
to chemical methods if they provide
satisfactory pest control.

2010

**French law on the national
commitment to the
environment**

Introduction of a regulatory framework
for the **use of biological control
agents (macroorganisms) against
plant pests**

Entry into force in 2012

2014

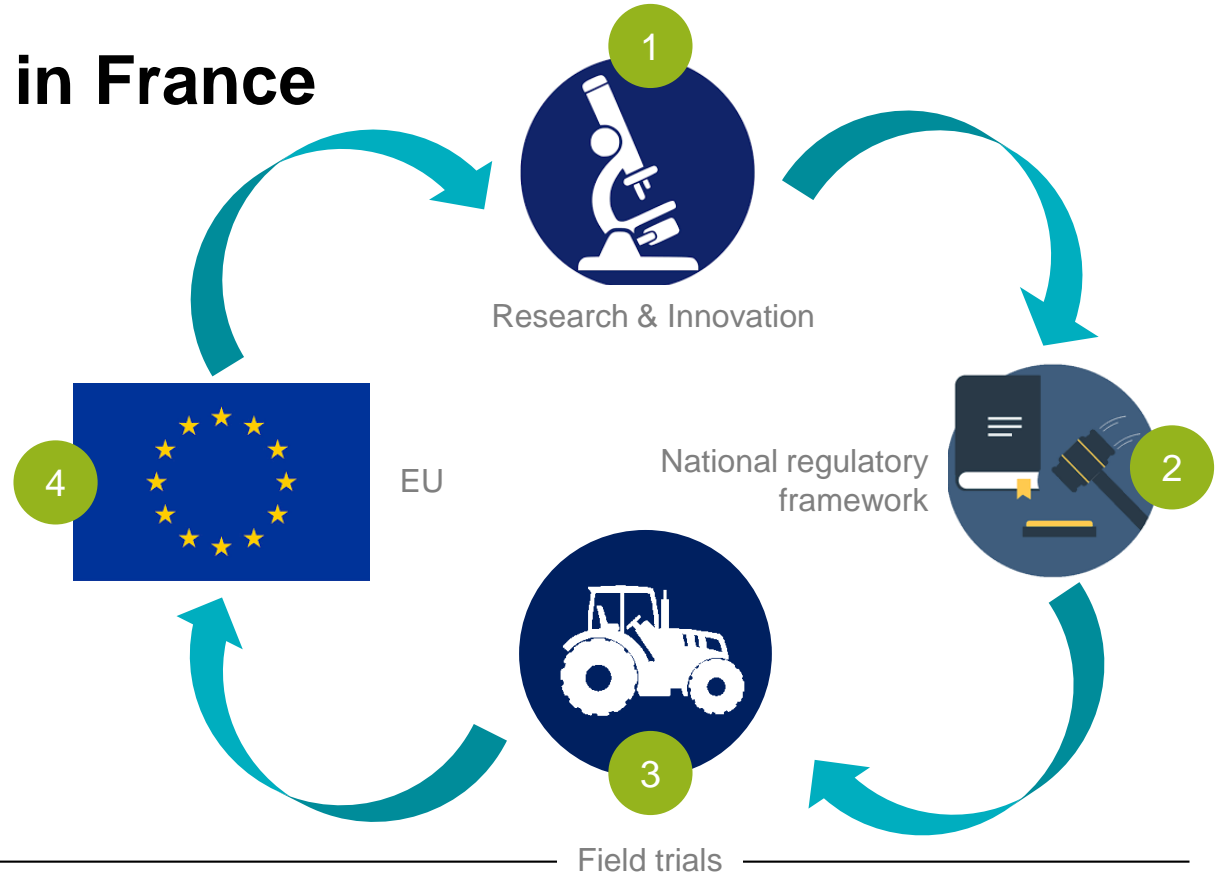
**French law of the future for
food, agriculture and forestry**

- Introduction of the term “biocontrol” in
legislation. It includes **macro-
organisms** and **plant protection
products of natural origin**
- Establishment of a specific regulatory
network to ease the development of
biocontrol methods, in particular **when
they are of low risk**

Biological control in France

2018

French law for the balance of trade relations in the agricultural and food sector and healthy, sustainable and accessible food to all



The French parliament enacted the need to implement a :

National strategy for the deployment of biocontrol

Focus on biological control agents (macroorganisms)

Which?

Non-indigenous organisms (at **strain level**) introduced in France **after 2012** (year of entry in force of the regulation)

What?

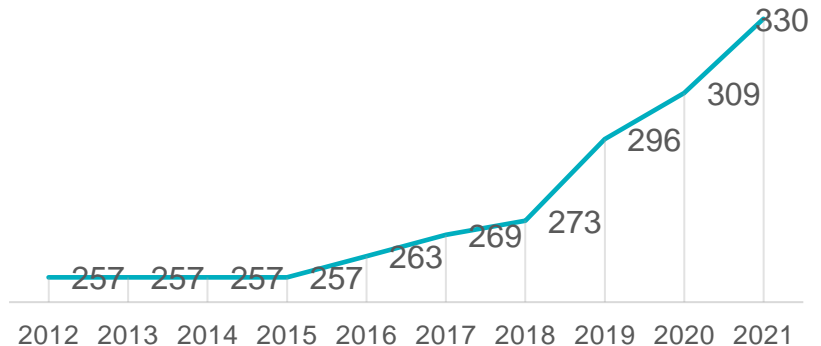
Need an authorization delivered by **the Ministers in charge of agriculture and of the environment**

How?

The applicant sends a dossier examined by the **French Agency for Food, Environmental and Occupational Health & Safety**

- BCAs are authorized for an organism, a producer and for a specific territory
- About **330 non-indigenous BCAs** are authorized (**114 non-indigenous species**)
- About **70 indigenous BCAs** are declared (**20 indigenous species**)

Evolution of non-indigenous macro-organisms's autorisations



Focus on biological control agents (macroorganisms)

Why?

- Securing the use BCAs
- Societal expectations
- **Alternative adapted to many pests and types of plant production**
- Complementarity of action of macro-organisms
- **Interest for some technological innovations (SIT)**

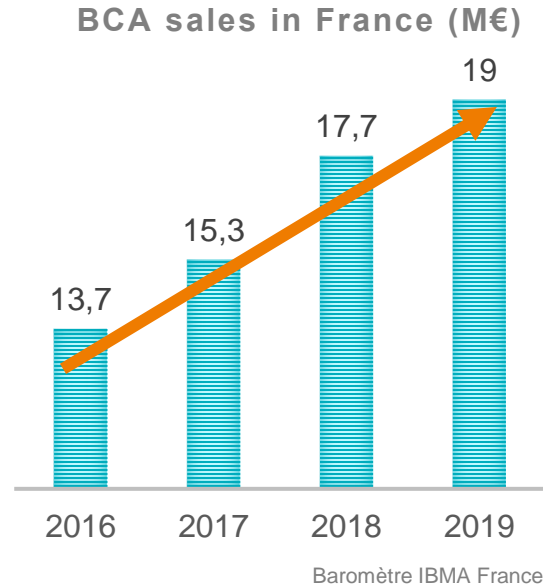
Specificities

- Procedure **adapted in case of research trials in confined environment**
- Inclusion of **pollinators** (11 indigenous and non-indigenous references)
- Inclusion of organisms resulting **from Sterile Insect Technique (SIT)** (4 indigenous and non-indigenous references)

Focus on biological control agents (macroorganisms)

Examples

- **Corn** : 120 000 ha (25% of areas requiring treatment against *Ostrinia nubilalis* with *Trichogramma brassicae*)
- **Vegetable crops** : 100% of greenhouse production (protection and pollination)



Perspectives

- Innovation in open crops (arboriculture and SIT)
- Innovation against emerging pests (to be developed)



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Thank you for your attention!

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