



# Regulation of low risk active substances under Regulation 1107/2009 A need-to-know approach

EU Commission, SANTE E4

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# Content of the presentation

- Setting the scene: the political context
- Legal framework: marketing and use of plant protection products
- Need to adapt the existing legal framework for biological PPP
- Need-to-know principle applied to risk assessment of biologicals

## The EU political context



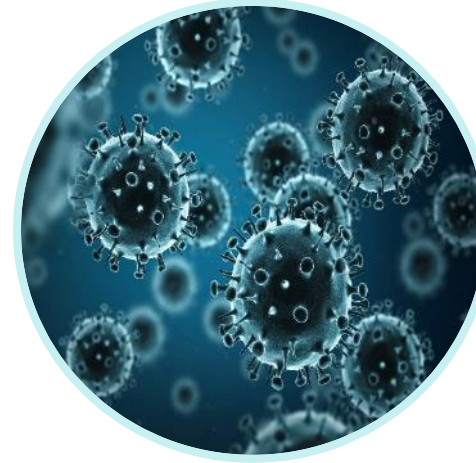
# The political context: Green Deal objectives



Reduce by 50% the overall use and risk of **chemical pesticides** and reduce use by 50% of more hazardous **pesticides**



Reduce **nutrient losses** by at least 50% while ensuring no deterioration in soil fertility; this will reduce use of **fertilisers** by at least 20 %

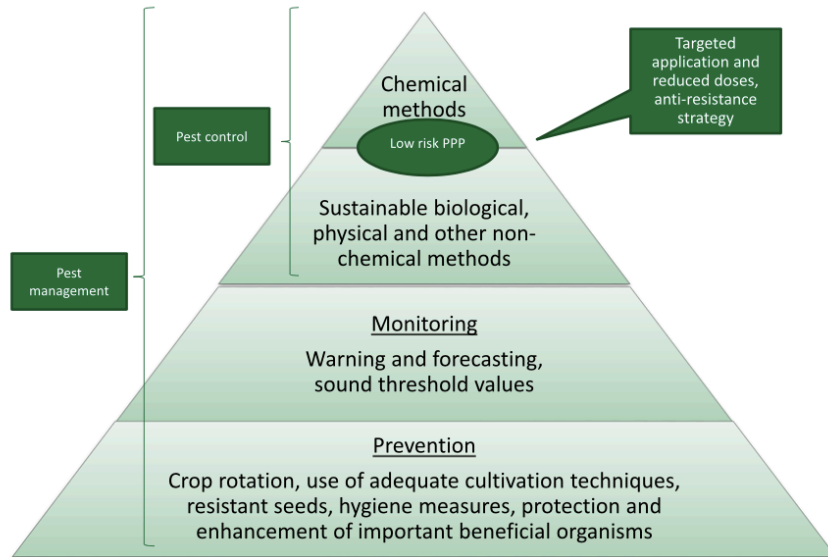


Reduce sales of **antimicrobials** for farmed animals and in aquaculture by 50%



Achieve at least 25% of the EU's agricultural land under **organic farming** and a significant increase in **organic aquaculture**

# The F2F strategy calls for more IPM and ....

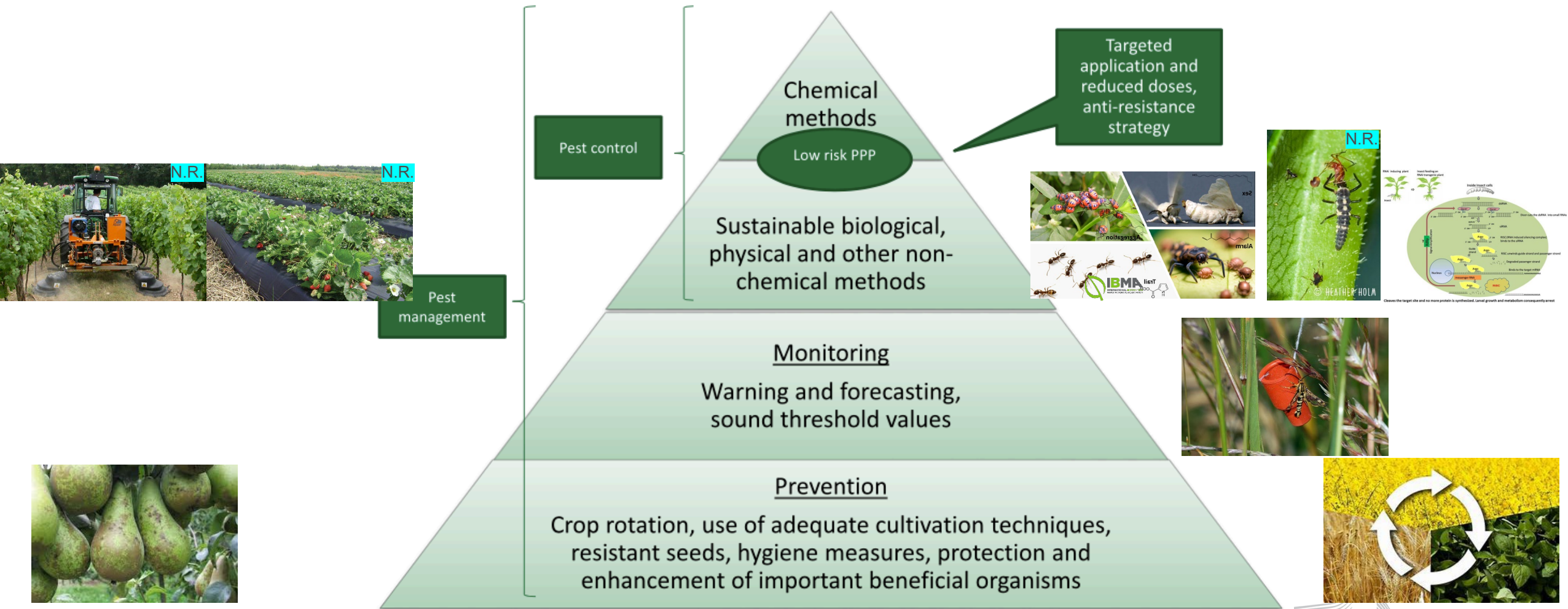


....a more populated Farmers' toolbox with low-risk Solutions:

- **Micro-organisms,**
- **Pheromones,**
- **Peptides, antibodies,**
- **Beneficial insects/mites/nematods**

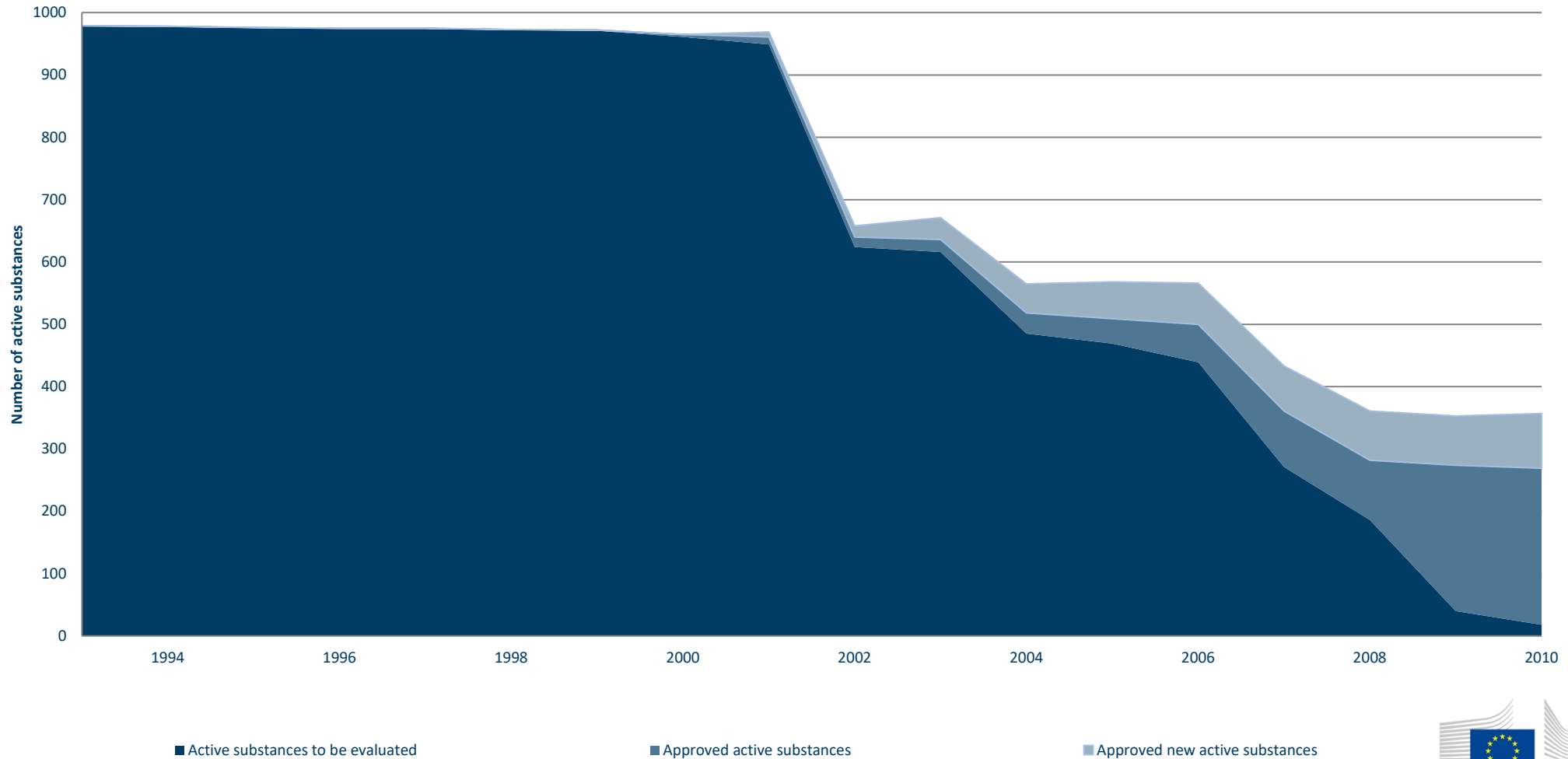


# The F2F strategy calls for further implementation of Integrated Pest Management

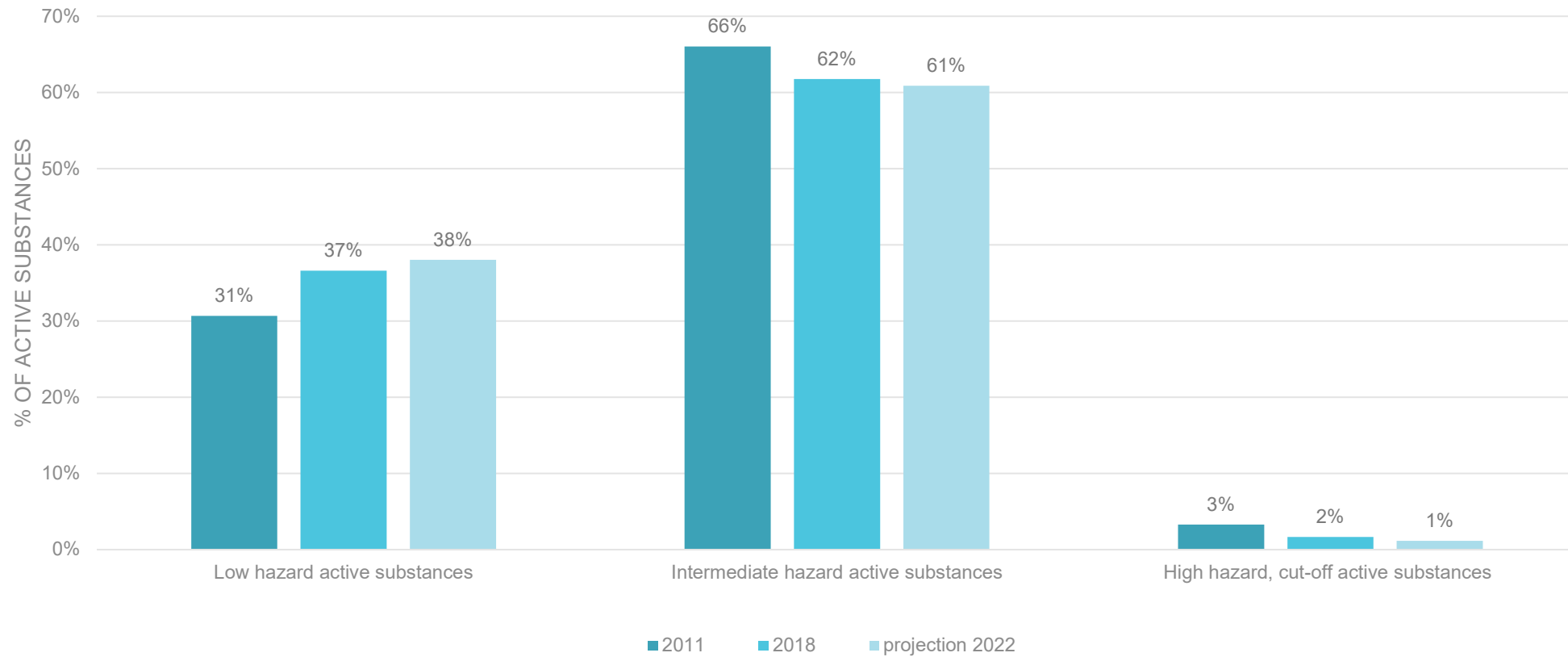


N.R.= Placing on the market is Not Regulated at EU

# How was the “portfolio” of active substances evolving in the EU between 1993 and 2010?



# Hazard Profiles of Active Substances





# What about the low-risk substances?

Low hazard active substances approved in EU



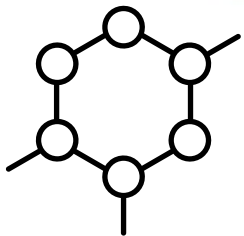
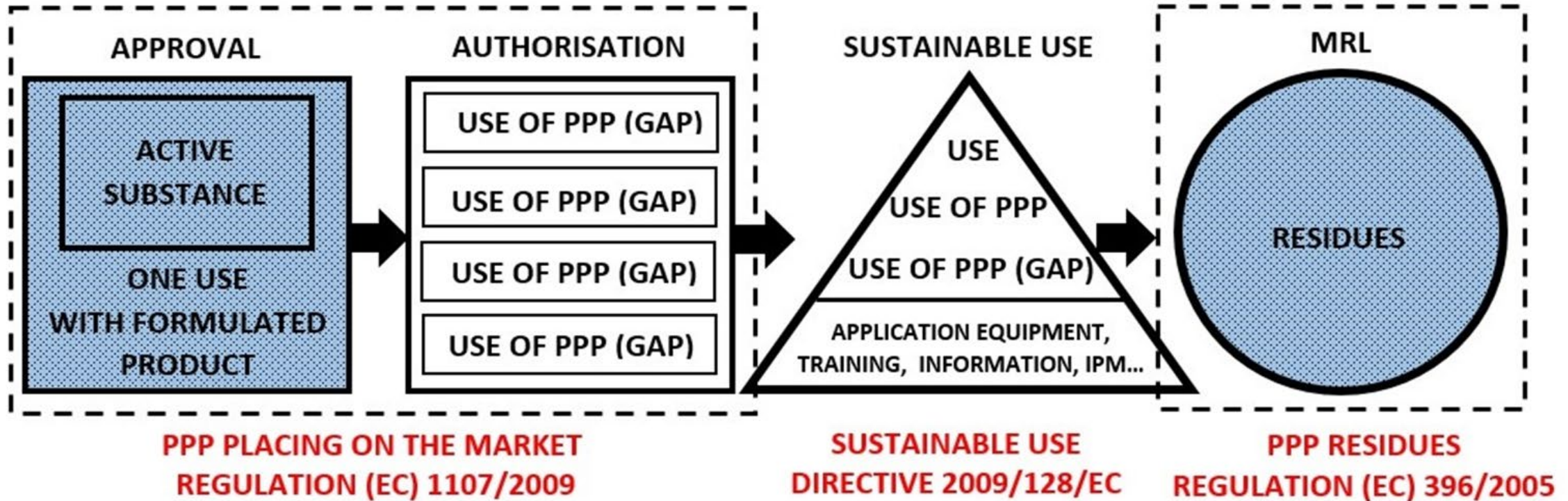
Today “Low risk” substances:

- Micro-organisms
- Pheromones
- Plant extracts

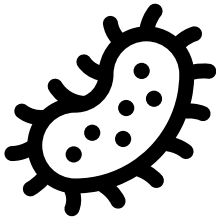
In the future:

- RNAi
- Peptides
- Antibodies

# Legal framework for plant protection products



or

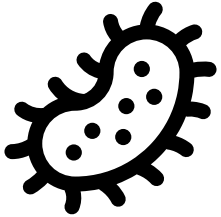


Efficient to protect HH and ENV, but better implementation (e.g. delays, transparency)

Update needed: proposal for Sustainable use Regulation (under discussion)

(Proposed definition of biological control)

# Need to adapt the legal framework for biological PPP



## Amendment of Regulations on micro-organisms:

☐ Reg. 283/2013 (data requirements AS)

☐ Reg. 284/2013 (data requirements PPP)

☐ Annex II Reg 1107/2009

☐ Reg. 546/2011 (Uniform Principles)

## New Regulations applicable from 21 November 2022!

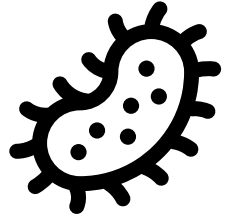
For active substance, new data requirements to be used:

- choice of applicant between **21 Nov 2022** and **21 May 2023**
- compulsory after **21 May 2023**

For products it will depend on the data requirements used for the active substance

# Need-to-know approach in risk assessment

## Biological properties\*



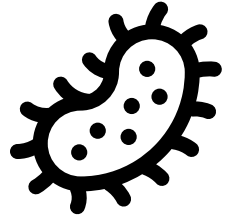
- ❑ **Central role** in data requirements

### Biological properties (WoE)



# Tiered-based and weight of evidence approach

## Example on human pathogenicity\*



### 1- Weight of evidence approach (WoE)

- Biological properties
- Medical data
- Others



### 2- Pathogenicity and infectivity studies (new data generation)

- Acute oral, and/or
- Acute intratracheal/ intranasal, and/or
- Intravenous/Intraperitoneal or subcutaneous test

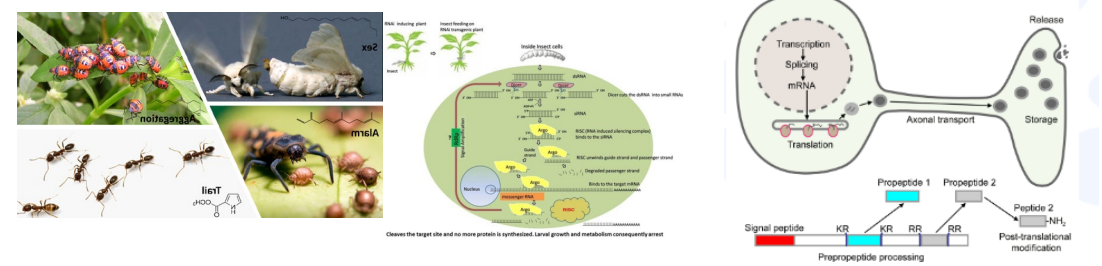


### 3- Specific pathogenicity and infectivity studies (new data generation)

- If WoE and pathogenicity and infectivity studies require further investigation



# Need-to-know approach for other candidate low-risk PPP in the 'pipeline'



- Data requirements (DR) & uniform principles
  - Part A dedicated to chemicals applies also to pheromones/semiochemical, botanicals-plant extracts, peptides, antibodies, RNAi)
  - EU guidance on semiochemicals, botanicals
- DR include literature data (systematic review, EFSA GD)
- DR include monitoring data (environment), epidemiological and medical data
- Info in DR not required under certain conditions (point 1.5 Introduction)
  - because of the nature, the uses, or **not needed scientifically**
  - technically not possible to generate

# Need-to-know approach for other candidate low-risk PPP – scientific justifications

- Biological properties
- Natural or already occurring background/exposure levels
- Ecology, fate and behaviour in the environment
- Specific interaction with the host
- Sensitivity to environmental factors → low-persistency...



# Need-to-know approach for other candidate low-risk PPP – questions to discuss in your dossiers



Opportunity to „ask NEED-TO-KNOW “ data only: for ex.

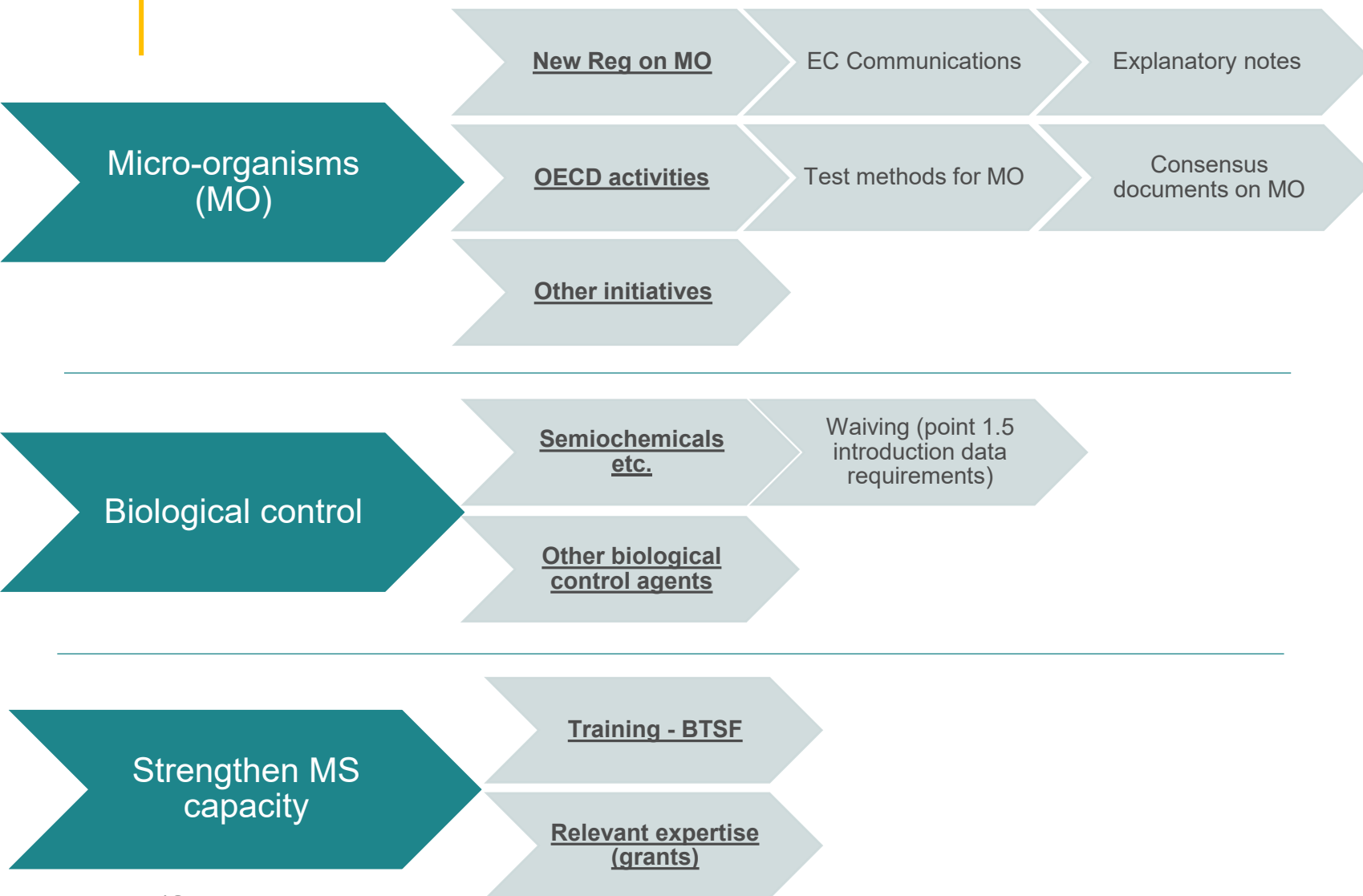
- ?Existing risk assessment for other uses than PPP (unlikely due to the specific host/pest interaction)?
- ?Toxicity/ecotoxicity package: make sense (stability of those ‚chemicals‘)?
- ?Consumers’ exposure: unlikely or equivalent to already occurring exposure”?

# Need-to-know approach for other candidate low-risk PPP – from theory to practice

*“When science leads, regulators try to follow”*

- Authorities need to see the ‘real cases’ !
- Discussion before submitting the dossier between the company and the authority (e.g. “pre-submission meeting”)
- Guidances to risk assessment: some are already available (EU, OECD, WHO), some others need to be developed.
- Every contributions are welcome: research projects, same technology applied to other uses, academic data collection, multiple actors joint efforts
- No need at this stage to modify the legal framework !

# Road to 2030!



2030



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# Thank you



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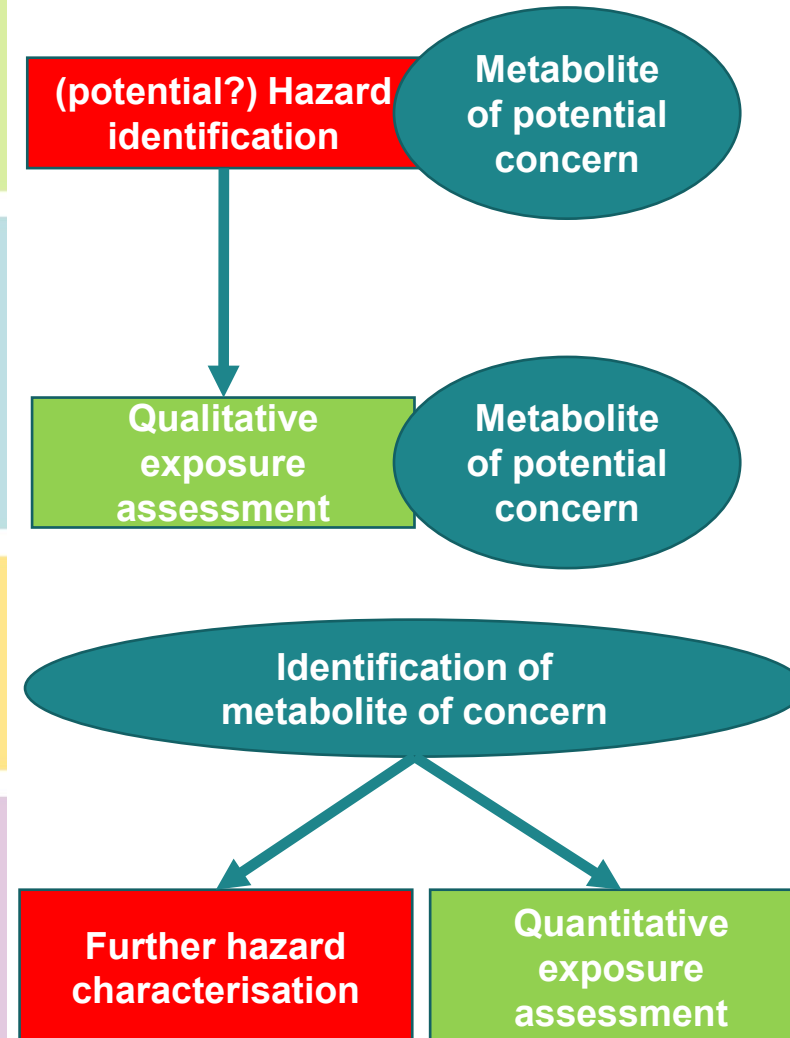
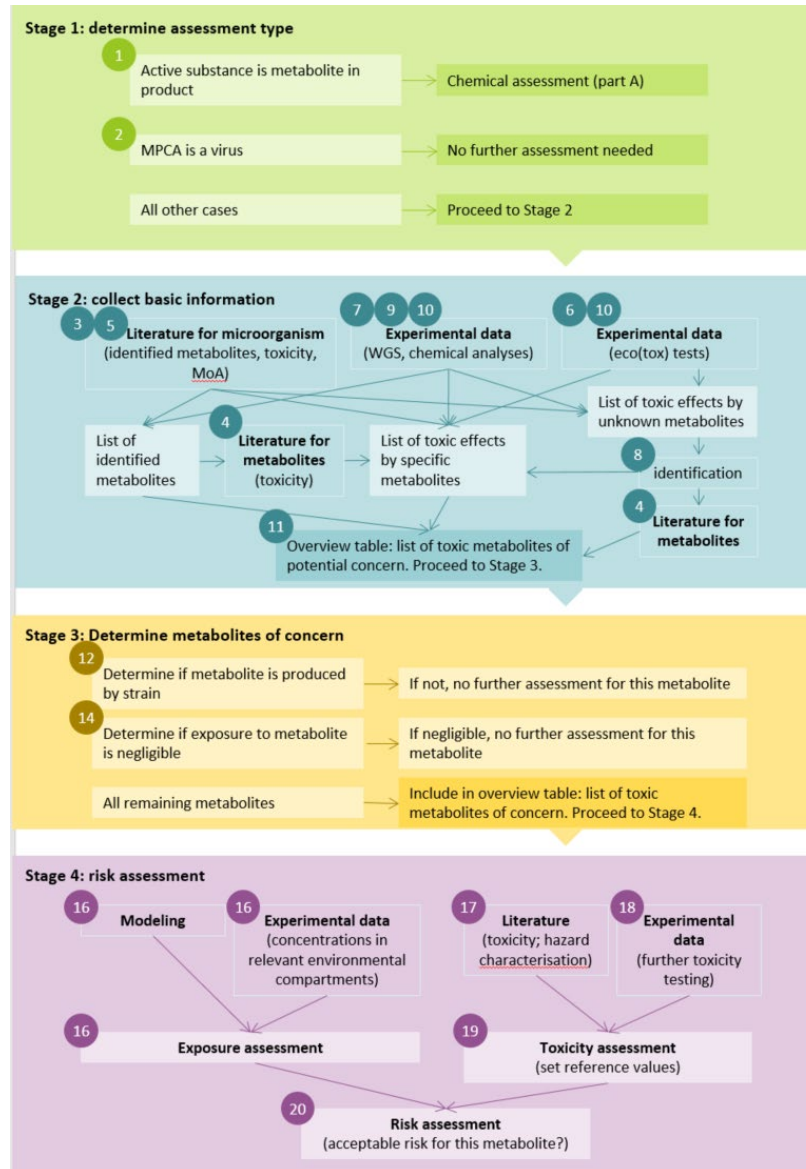
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# Metabolites of concern

## Guidance document on metabolites produced by micro-organisms\*



# Metabolites of concern

## guidance on metabolites VS legal text

- **Guidance document:** sequence based on timings of data-provision (decision tree)



- **Legal text:** sequence based on dossier/DR structure

