Exploring the benefits of biocontrol for sustainable agriculture

A literature review in the light of the European Green Deal

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WORKSHOP 9 June 2021:
The shift to nature positive food and farming - what role for biocontrol?
The methodology in one blink

- Literature review
  - Scientific articles in peer-reviewed journals
  - Other inputs
- CORDIS database (FP7, H2020)
- EU law
# Biocontrol in the EU policy context

<table>
<thead>
<tr>
<th>Research and Innovation</th>
<th>+++</th>
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<tbody>
<tr>
<td>CAP</td>
<td>+</td>
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<tr>
<td>Pesticides approval regime</td>
<td>😞</td>
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<tr>
<td>Environment</td>
<td>++</td>
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BENEFITS

• Biodiversity
• Soil quality and health
• Human health

WIDER IMPACTS

• Farm economics
• Climate
• Governance
Biocontrol supports European Green Deal objectives

<table>
<thead>
<tr>
<th>EU strategies</th>
<th>Selected 2030 objectives</th>
<th>Biocontrol</th>
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<tbody>
<tr>
<td>Farm-to-Fork</td>
<td>50 % less chemical pesticide use</td>
<td>✔</td>
</tr>
<tr>
<td>Farm-to-Fork</td>
<td>Organic farming on 25 % farmed land</td>
<td>✔</td>
</tr>
<tr>
<td>Biodiversity</td>
<td>10 % of agricultural area → high diversity in landscape features</td>
<td>✔</td>
</tr>
<tr>
<td>Zero Pollution</td>
<td>75 % of soils are healthy</td>
<td>✔</td>
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</table>
Recommandations

- EU definition of biocontrol/bioprotection
- A differentiated evaluation process
- CAP national strategic plans
- Research needs
- Field application
Thank you for your attention!

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