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## Market placement of products containing microorganisms for use in plant protection in the EU





- 1. Market placement of plant protection products containing microorganisms
- 2. Registration of other microbial products that may be of use in plant protection
- 3. Registration time and cost



# Registration of PPP containing microorganisms

Currently – under Regulation 1107/2009 Previously – according to Directive 91/414

Microorganisms - registered in the EU as PPP for over 20 years



## Microorganisms as PPP

- Placed on the market according to the same procedure as chemical pesticides.
- Considered to be AS and marked up to the strain.
- Differences: otherwise than for chemical substances:
- data on fate and behavior in the environment can be based on open literature if available

- data on residue exposure may not be required where it can be justified, that the microorganism is not hazardous to humans in the recommended dose.



## Microorganisms as PPP

- The label of microbial PPP contains data such as concentration, application condition, safety precautions and expiration date.
- Approved uses and doses are listed on the label. Protection of unregistered crops and use of doses higher than registered are against the law.
- The producer of PPP guarantees its efficacy and is responsible that the product applied according to the label controls the target organisms.



## In July 2014

- 36 microorganisms approved for use in plant protection in the EU (this does not include AS produced by microorganisms, ex. spinosad)
- Ca.10 other microorganisms under the procedure of inclusion and their assessments are pending.





# Microorganisms among active substances in the EU

- 8% of all AS approved
- Fungicides 15%
- Insecticides 14%
- Nematicides 22%
- Bactericides 40%



## Registration in MS - July 2014

- 3 out of 36 approved microorganisms
  NOT registered in any Member State
- The most widely registered (respectively 22 and 21 Member States): Cydia pomonella Granulovirus (CpGV) Bacillus thuringiensis subsp. Kurstaki.







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## Integrated Pest Management - obligatory in the EU

- The first principle of IPM: **PREVENTION**
- Microorganisms can be helpeful in
  - strenghtenig the crop plants
  - harmful organisms management



## Beneficial functions of microorganisms

#### Harmful organisms

- competition for place and food
- antagonism (substances inhibiting development)
- parasitism

Crop plant

- symbionts, myccorrhiza
- stimulation of defense reactions
- stimulation of growth

Microorganisms

#### Soil

- decomposition of organic matter
- decomposition of pollutants
- formation of the soil structure



## **Beneficial microorganisms**

- Inhabit the field and its surroundings
- Can be used in the form of commercial products: "biostimulants", "soil improvers", "plant strenghtners" e.t.c.

Market placement of this products is higly differenciated among EU Member States



# Market placement of biostimulants in the EU



Source: Arcadia International, Report for the European Comission, January 2014



# Market placement of nonPPP microorganisms in the EU

- Rules differ among MS
- Rules differ within particular MS for different groups of microbial products (ex. symbionts, products speeding up the composting process, biostimulants, soil improvers)



- There are plans to regulate market placement of biostimulants
- Different activities take place



# Uniform rules of market placement

- Protection of farmers against unefficient products
- Protection of environment against organisms that may be potentially pathogenic or invasive
- High registration requirements (translating into high registration costs) may eliminate small firms from the market
- May decrease availability and increase market prices of microbial products



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## Conclusions

- Uniform rules for PPP registration with 36 microorganisms approved currently for use in pest control in the EU.
- The approaches to market placement of other microbial products differ within the EU and in particular MS depending on the product.



## Definition

 According to Regulation 1107/2009 products

"influencing the life processes of plants, such as substances influencing their growth, other than as a nutrient" are PPP

 Difference between "biostimulant" and "plant growth regulator" – confusing



### Thank you for your attention