



evologic  
Technologies GmbH

Grow. Different.

# Unlocking a bioherbicide by formulation

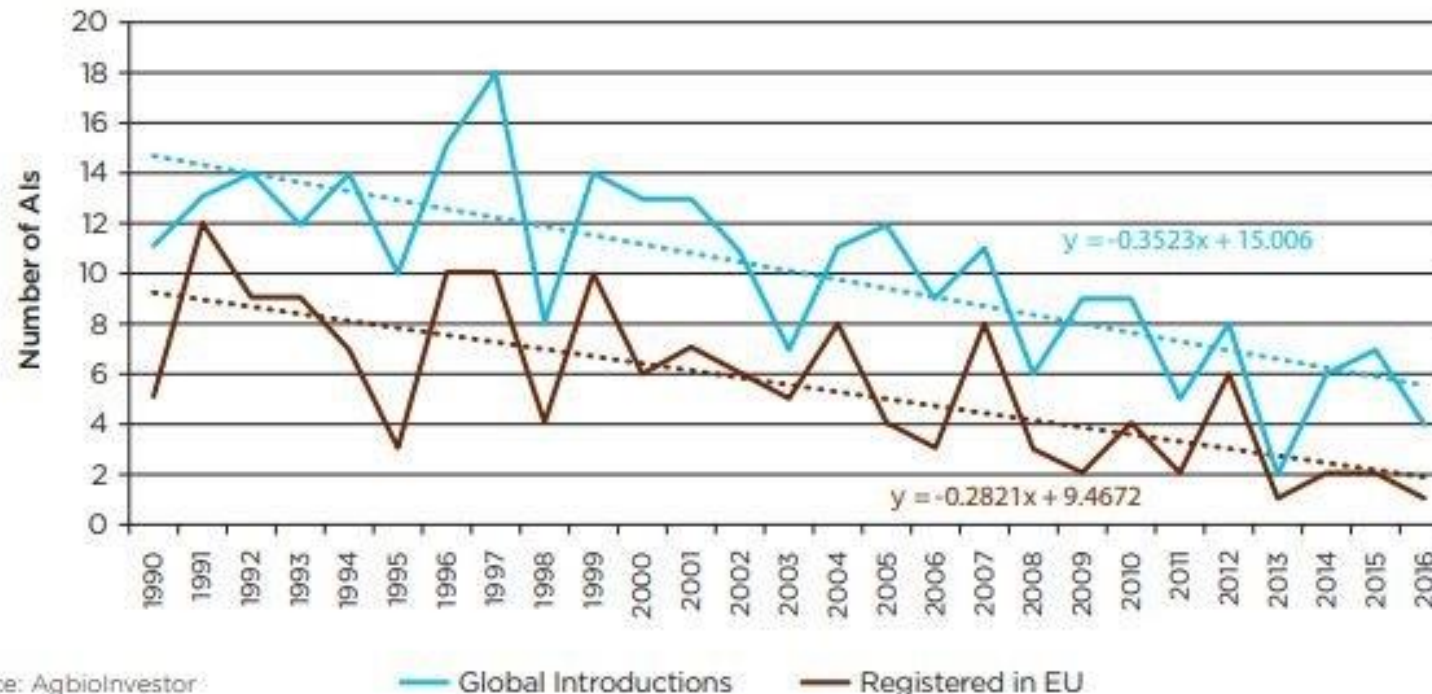
BIOSHIELD – AN ENCAPSULATION TECHNOLOGY FOR BIOLOGICALS

# CHALLENGE

# WEEDS ARE GROWING RESISTANT

Weeds developed resistance against 2/3 known herbicide modes of actions

Figure 1. Number of new agrochemical active ingredients introduced globally and registered in the EU<sup>1</sup>



Bioherbicides offer novel modes of action

# PROBLEM

# BIOHERBICIDES NOT COMPATIBLE

Today's formulations: too high costs and complex application

**Use case:** fungal bioherbicide



> 350 kg/ha application rate



> 1000 €/ha costs



Standard granular application

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**unfeasible**









**Bioshield formulation technology unlocks potential**

# SOLUTION

# BIOSHIELD FORMULATION

Bioshield improved bioherbicide compared to standard granular formulation

Use case: fungal bioherbicide

	Standard	➔	Bioshield
Application rate			 ↓ <b>10</b>
Costs	€		€ ↓ <b>10</b>
Application method			   x <b>3</b>
Weed control			 =

Efficient and economically feasible

# CONCLUSION

# TURNING POINT FOR BIOLOGICALS

Bioshield a scalable platform encapsulation technology for formulation

- **Industrial scale production**
  - Tons-scale
  - Commercialized **three** Ag-Inputs
  - Successful for **ten** different organisms
- **Long term stability**
  - At least **one log higher survival** rate for bacteria
  - Increase **efficacy on the field**
- **User friendly application**
  - For the end user and farmer



**Bioshield makes biologicals compatible**

Meet us at booth 019 hall 4.0



Challenging microbe?

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Appointment:  
<https://calendly.com/rebekka-leitner>