EU-China FAB Flagship Initiative
Integrated Plant Protection

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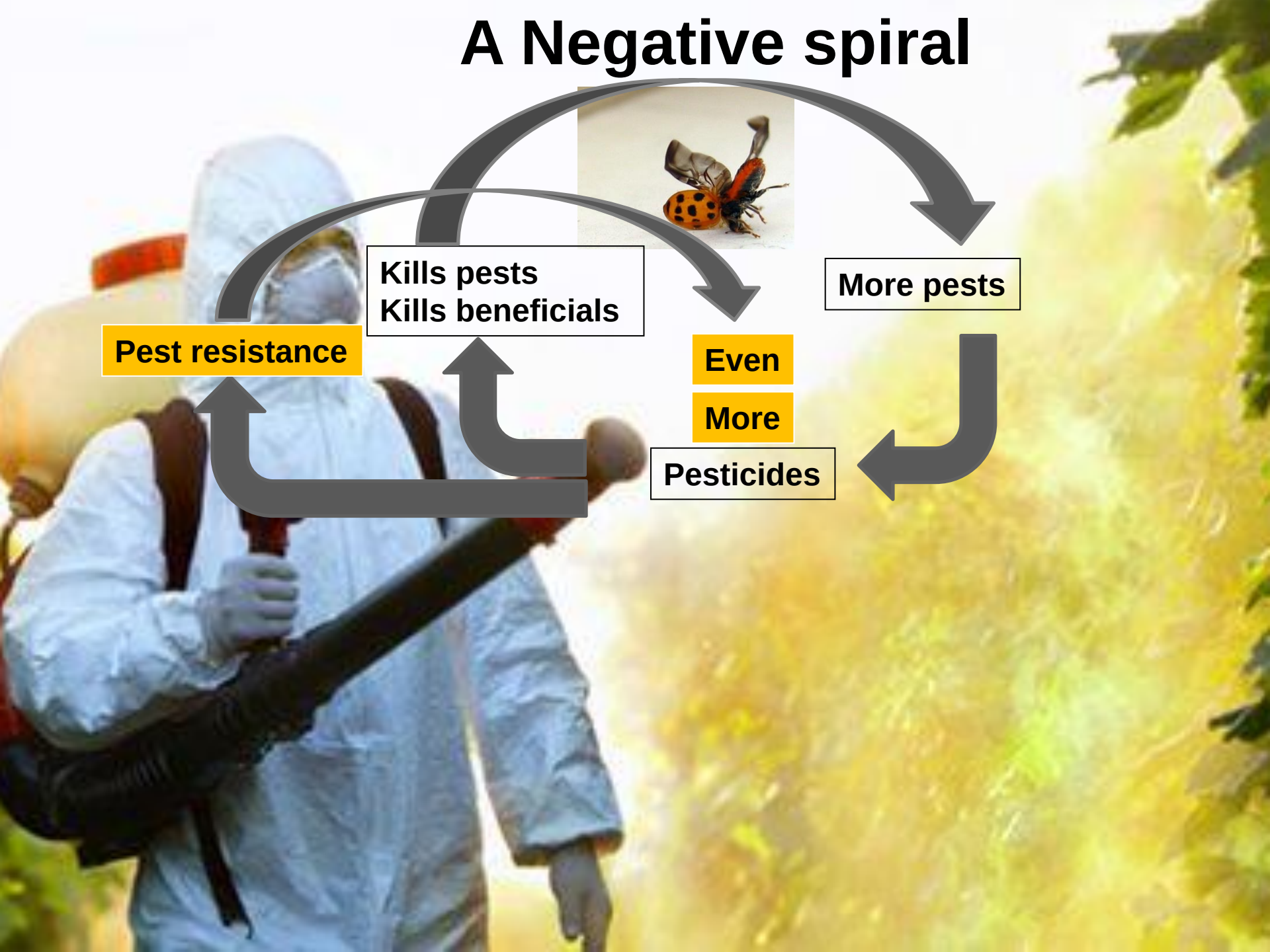
A Perceived Conflict

A Negative spiral



1959: IPM/IPP

CICP

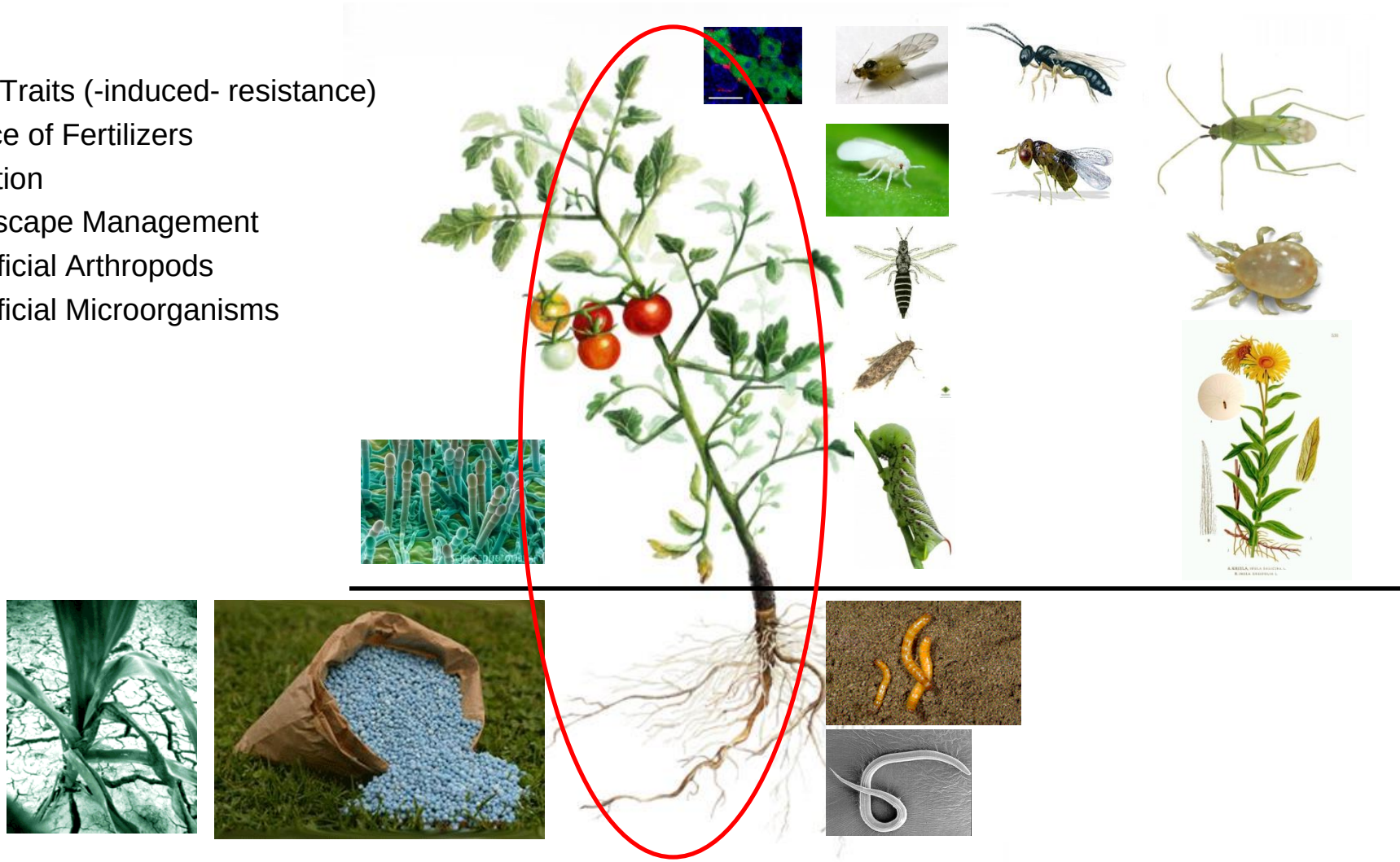
Compendium of IPM Definitions (CID)

"A Collection of IPM Definitions and their Citations in Worldwide IPM Literature"

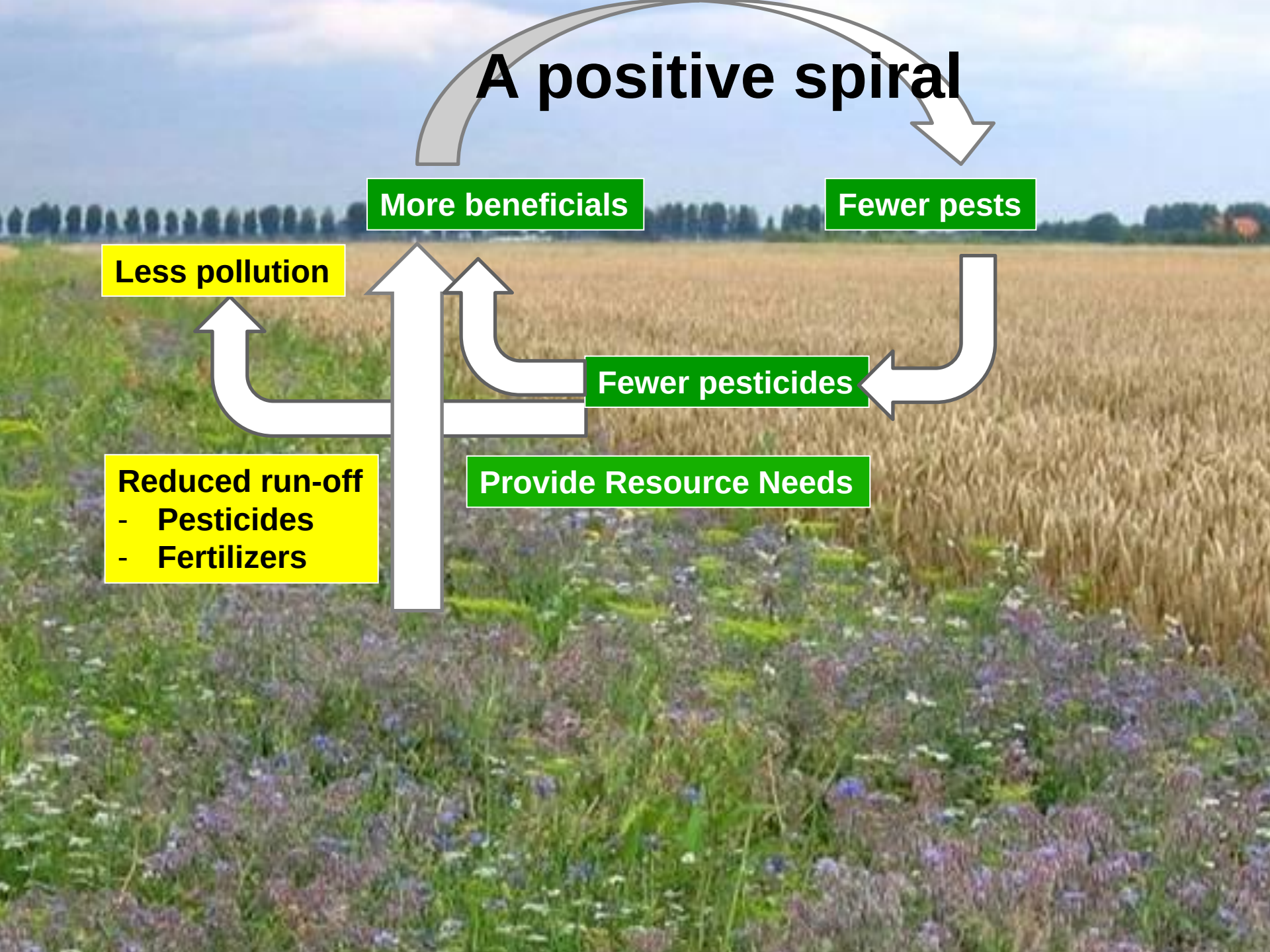
Integrated pest management (IPM) is a pest management strategy that focuses on long-term prevention or suppression of pest problems with minimum impact on human health, the environment, and non-target organisms. It uses a combination of techniques such as biological control, habitat manipulation, modification of cultural practices, and use of resistant varieties. Broad spectrum pesticides are used as a last resort when careful monitoring indicates they are needed according to pre-established guidelines.

IPP

- Crop Traits (-induced- resistance)
- Choice of Fertilizers
- Irrigation
- Landscape Management
- Beneficial Arthropods
- Beneficial Microorganisms



A positive spiral

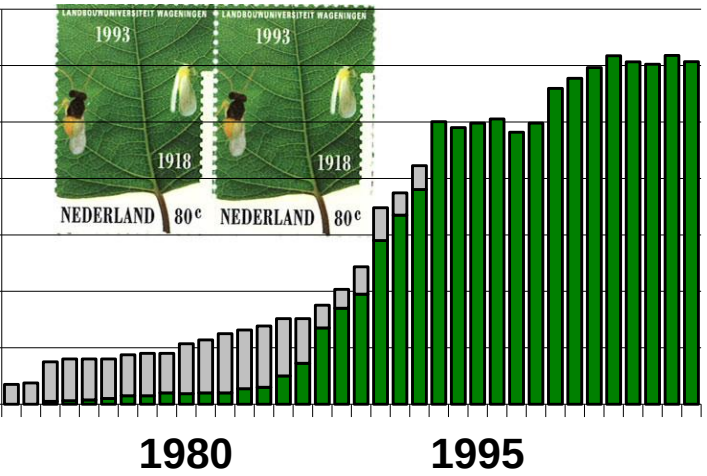


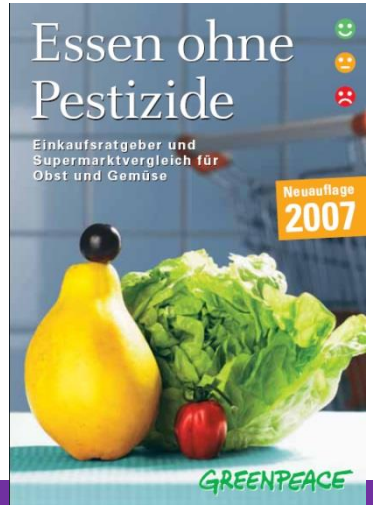
Biological Control

"The action of parasites, predators and pathogens in maintaining another organism (pest, pathogen, weed) at a lower level than would occur in their absence" (Debach, 1964)

Drivers for IPM/IPP Implementation

- Economics
- Consumers (health)
- Food Chain / Supermarkets
- Policy /Regulations





BBC NEWS

Bee deaths: EU bans Neonicotenoid pesticides

IPP/Biocontrol and Food Security

IPP/Biocontrol is an integral part of High Tech Agriculture realizing the highest yields

There is no conflict between IPP/Biocontrol and Food Security; Between Yield and Environment; Yield and Consumer Health
They can go Hand in Hand

IPP/Biocontrol Challenges

- Integrate (novel) IPP Strategies
- Knowledge Transfer (increase uptake)
- New (invasive) pests/weeds/diseases
- Increased / Unclear Regulations

Thanks