

# Biological Control in Southern Europe, a breakthrough 

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BIOLOGICAL SYSTEMS

## Biological control in Southern Europe

- Winter plantings (Campo de Cartagena)
- analogous to North Europe
- Summer plantings (Almeria)
- High Pest Pressure vs. Lower Income
- Requires different approach

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## Convergence

1. Amblyseius swirskii

- Developed by:
- University of Amsterdam (Sabelis, Jansen, Nomikou)
- Research Station Bleiswijk (Messelink \& Ramakers)
- Koppert
- Highly effective against whiteflies and thrips
- Economic mass-rearing technology (patent pending)
- Commercially launched in 2005


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## Convergence

## 2. Greenpeace Germany

- Resistance problems
- Leading to high pesticide usage and use of illegal products
- High residue levels of legal and illegal products
- Action by Greenpeace Germany
- Re-action by supermarkets ...


## | <OPPERT <br> biological systems




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## Current situation

- Biological control is currently used on:
- > 6.000 hectares of sweet peppers
- > 1.000 hectares of eggplants and cucurbits
- Results sofar successful
- Issues
- Residues of imidacloprid in the soil
- TSWV
- Challenges
- Technical and "psychological" support

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## Future

- Biological control of whiteflies with predatory mites is new breakthrough
- Technical ánd Economic Feasibility of biological control in summer plantings in the Mediterranean are proven
- Increased use of biological control in other areas of the Mediterranean and in other area's with similar conditions is to be expected


# Thank you 

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