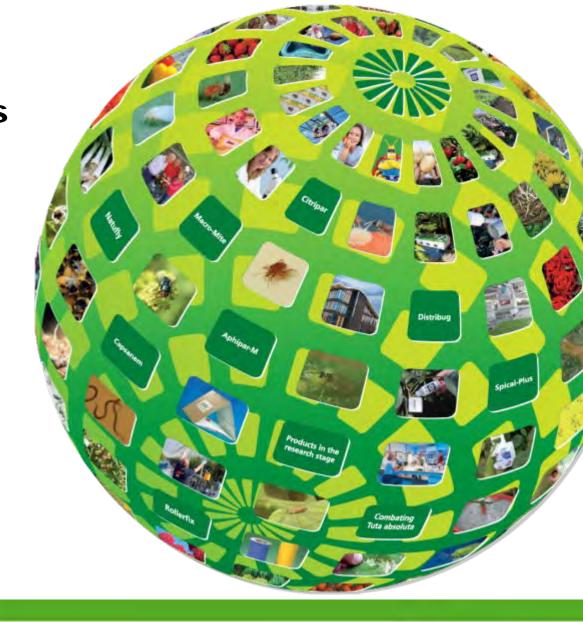


Koppert Biological Systems

Bram Koppert

Project manager China





Presentation of today

1. Introduction Koppert Biological Systems

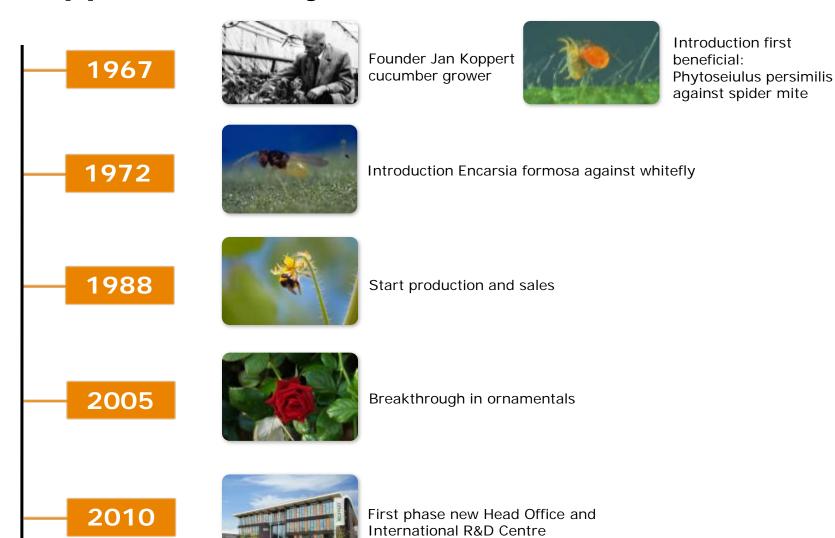
2. Challenges in China



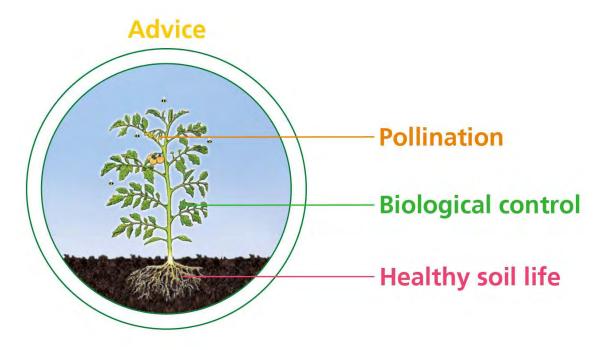




Koppert's history and milestones



What we do: Koppert core business



Biological agents: Biological crop protection

Bumble bees: Natural pollination

Microbials: Biological crop protection

Natugro: Restore the health of the soil



Koppert's mission

To help farmers to be an attractive partner for their customers with focus on maximizing:



- 1. Productivity
- 2. Quality
- 3. Food safety
- 4. Sustainability





Agricultural challenges in China

Limited water and arable land

Retailers need better shelf life

- Consumers are demanding safe food for their children and improved (cosmetic) quality
- Farmers are using a greater range of pesticides
- Pressure on farmers to intensify their farming

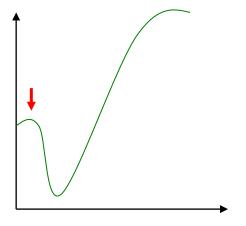


The vicious spiral of chemical pestices

- Agronomic problems
 - Resistance
 - Elimination of natural enemies
- Leads to
 - Increasing application frequency
 - Increasing dose rates
 - Use of illegal pesticides
- Leads to
 - More pest problems
 - Increasing residue levels
- Leads to
 - Increasing environmental impact
 - Decreasing Food Safety

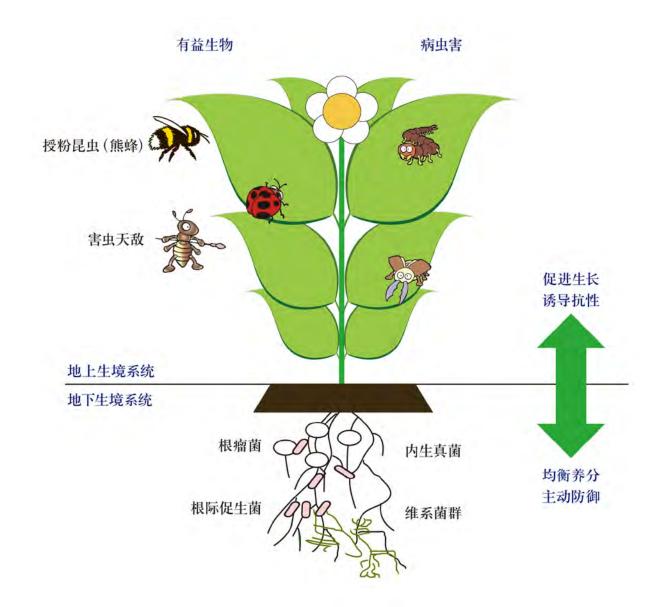


- 2. Environmental problem
- 3. Food Safety problem





Koppert System Approach



What is in our mind

We face several issues on import because of lack of knowledge

- High tech knowlegde is concentrated at companies
- Chinese regulators prefer government-government
- How to ensure that innovations for sustainable development are not blocked by regulations based on old practices?

The biggest part of growers is low scale farming, but there is a must for traceability.





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What is in it for China

- Increased yield per m2 -> more profit for the grower
- Higher value products:
 - Fresh products with a longer shelf life
 - More vitamines and nutricients
 - Cleaner (free of chemical residue)
- Reduced use of chemical fertilizers and chemical pesticides
- Reduced use of scarce water
- Less polluted soils and waters
- Safer place for farmers to work

