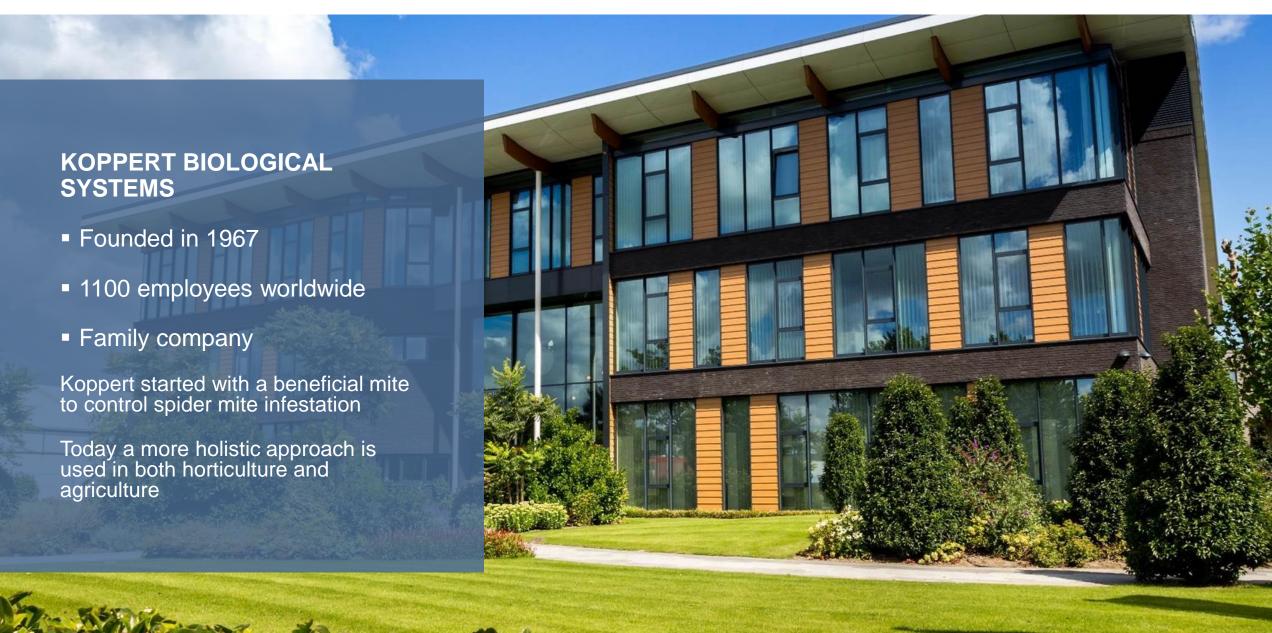




INTRODUCTION





HISTORY

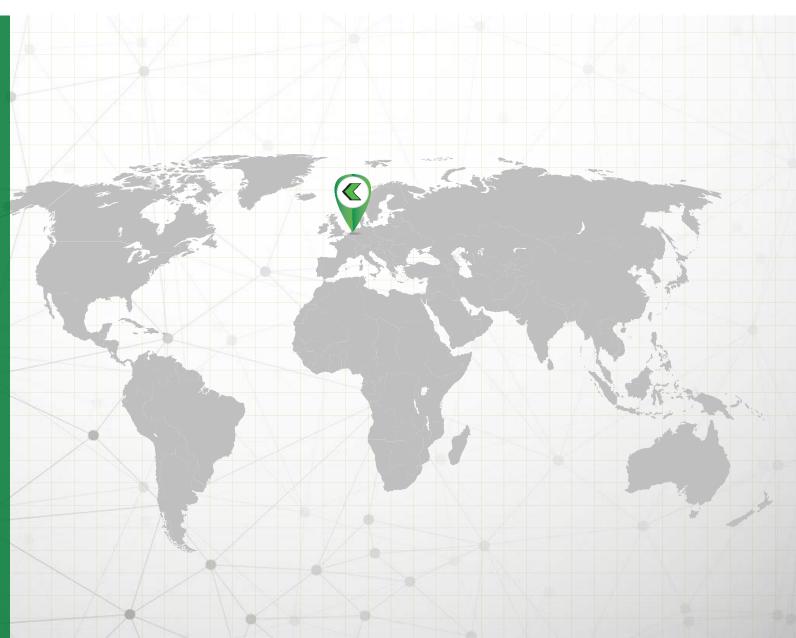


1967

- Jan Koppert
- Vegetable grower
- Chemical control
- Decreasing efficacy
- Resistance
- Need for alternatives
- The first natural enemy to combat spider mite infestation
- Positive results and effects



- Since then, the search for biological solutions has expanded
- Today Koppert is the market leader in biological crop protection and natural pollination
- Koppert's solutions are successfully applied in more than 90 countries







CORE DISCIPLINES





KOPPERT'S CORE DISCIPLINES:

- Research and development
- Worldwide production and distribution of solutions
 - Pest & disease Control
 - Natural Pollination
 - Application techniques& monitoring
 - Resilient Growth with NatuGro
 - Seed treatment
- Know-how and knowledge sharing

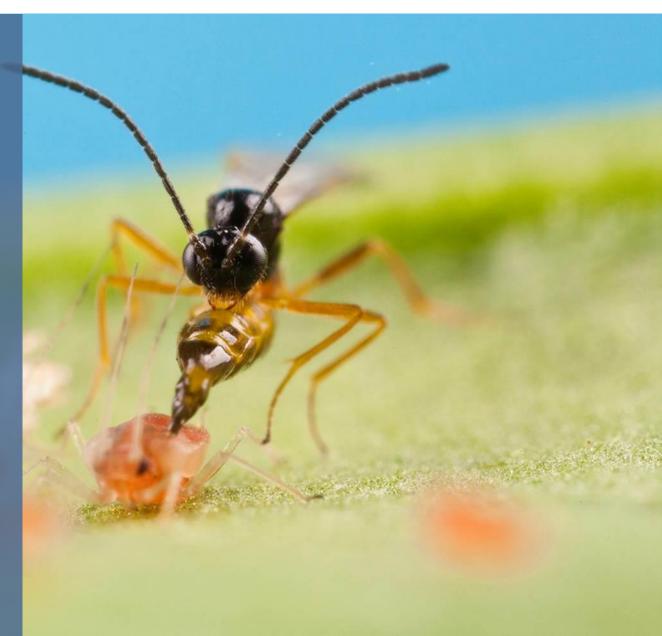


EACH CROP AND PEST HAS SPECIFIC CHARACTERISTICS

 Varies greatly in terms of cultivation, region and season

SUCCESSFULLY PRODUCING NATURAL ENEMIES

- Parasitic wasps, predatory insects and mites
- Has helped growers restore natural balance in crops for decades
- Our worldwide knowledge and individual advice are the key to this success



MICROBIAL SOLUTIONS FOR DISEASES



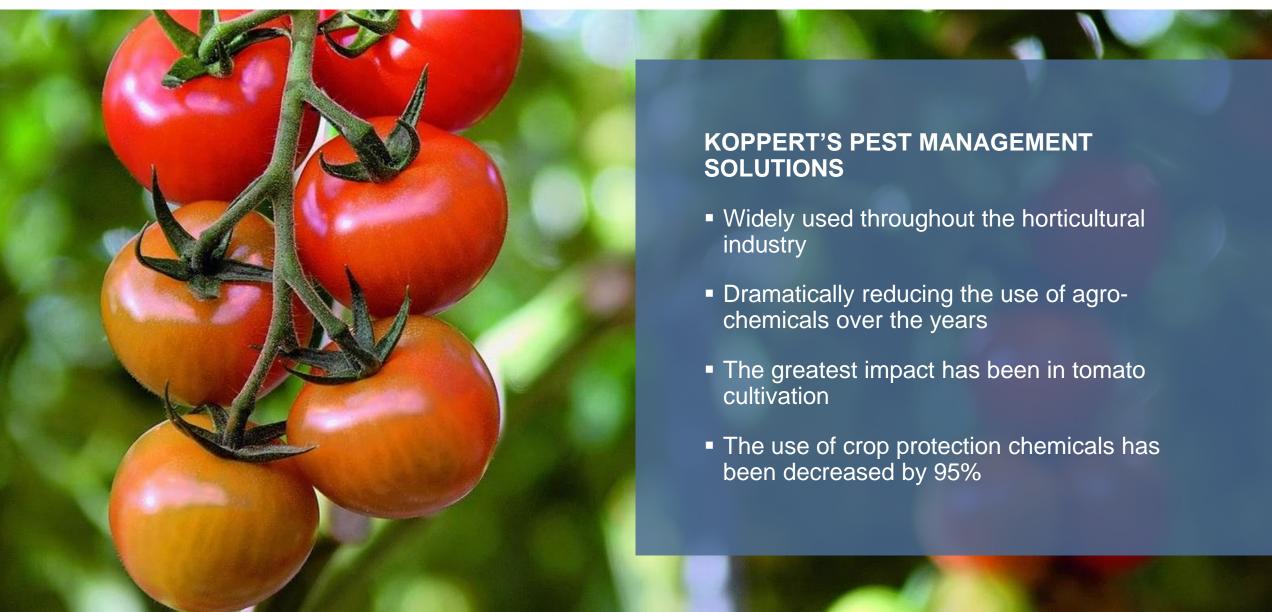


ANTAGONISTIC MICRO-ORGANISMS

- Fungi and bacteria for control of a wide range of soil diseases and nematodes
- Application in many crops
- Early in the crop as a preventive measure, easy to apply on seed or in propagation phase
- A healthy start provides a healthy plant

BIOLOGICAL CONTROL OF PESTS AND DISEASES







WHY POLLINATION BY NATUPOL?

- Natural pollination results in considerably higher yield
- Improves the quality and shelf life of both seeds and fruit
- Growers have tried to improve pollination manually in the past. Natupol has reduced labour costs for the grower







NATUPOL POLLINATION SOLUTION SINCE 1988

- Introducing bumblebees for commercial pollination
- Producing millions of bumblebees annually for a variety of applications
- Helping growers around the world to cultivate their crops successfully

RESILIENT GROWTH WITH NATUGRO



NATUGRO, NATURAL GROWING

A SYSTEM THAT CONSISTS OF:

- Beneficial micro-organisms: Fungi and Bacteria
- Biostimulants
 - Amino, humic & vulvic acids
 - Seaweed extracts, Vitamins
- Professional advice
- That benefits the crop, environment and consumers
- Creating optimal growing conditions
- Maximizing crop resilience against diseases and pests
- Reducing the use of chemical crop protection products and artificial fertilizers



SEED TREATMENT





TAILOR MADE SEED COATING - PANORAMIX

- Mix of biostimulants provide the perfect start
- Improves the condition and biodiversity of the soil
- Ensures that diseases have less chance of taking hold
- Enhances the uptake of water and fertilizers
- Crops grow more rapidly and robustly and are therefore more productive
- Eventually produces entirely residue-free end products
- Suitable for crops such as maize, wheat and soya



R&D IS THE BACKBONE OF KOPPERT'S ACTIVITIES:

- Ongoing drive to discover and utilize natural principles
- R&D turns this knowledge into practical applications
- Contributes to finding solutions
- Ground-breaking discoveries with regard to pollination solutions
- Koppert's R&D is always looking for new solutions





DEALERS AND GROWERS ARE SUPPORTED

- More than 300 professional consultants
- Operational advice

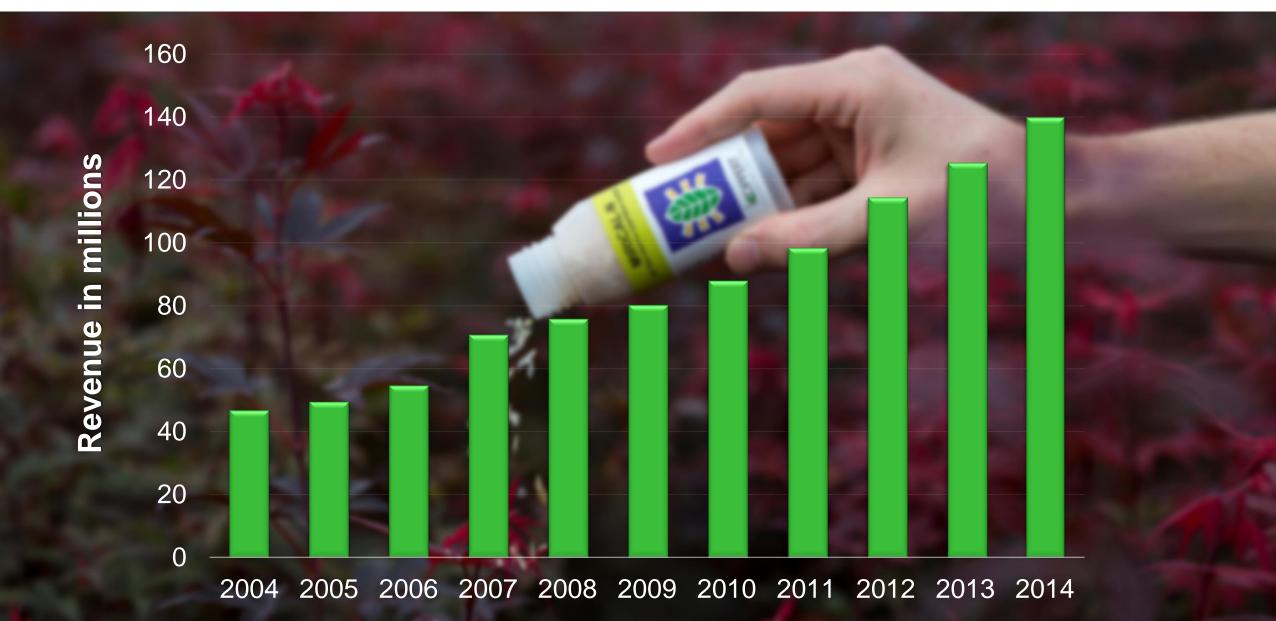
KNOWLEDGE AVAILABLE TO A WIDER TARGET GROUP

- Works closely with universities around the world
- Offers a variety of courses

We train large groups of stakeholders in knowing and recognizing diseases and pests every year







SUBSIDIARIES





PRODUCTION FACILITIES IN:

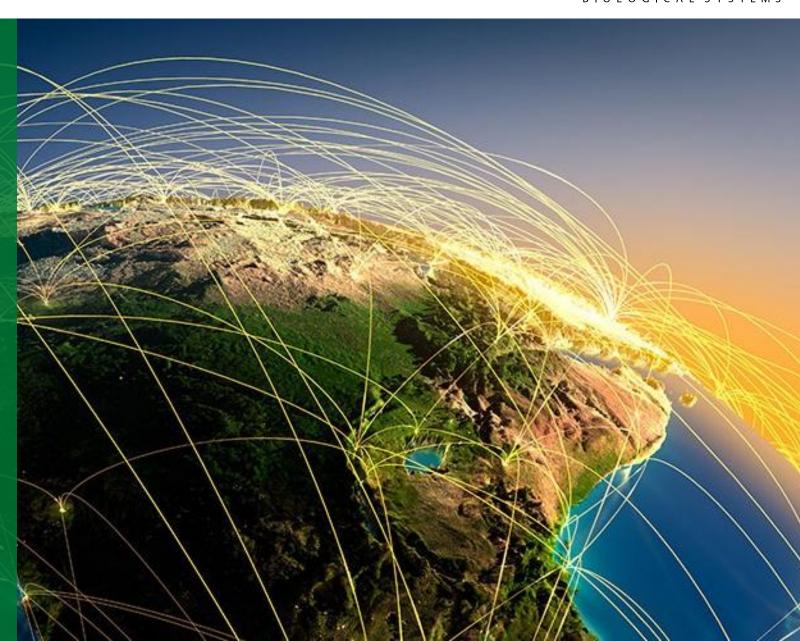




THE MARKET: INTERNATIONAL



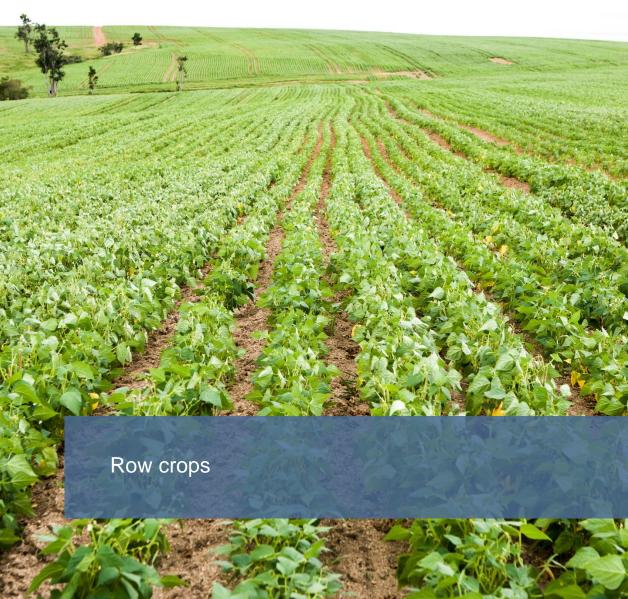
- Vegetable crops
- Ornamental crops
- Fruit crops
- Flower bulbs
- Mushrooms
- Tree nurseries
- Public green (parks, lawn trees)
- Seed crops
- Golf courses
- Cereals, soya, potatoes
- Tropical fruits
- Cattle and pig farms



FROM PROTECTED CROPS TO FIELD CROPS







TRENDS

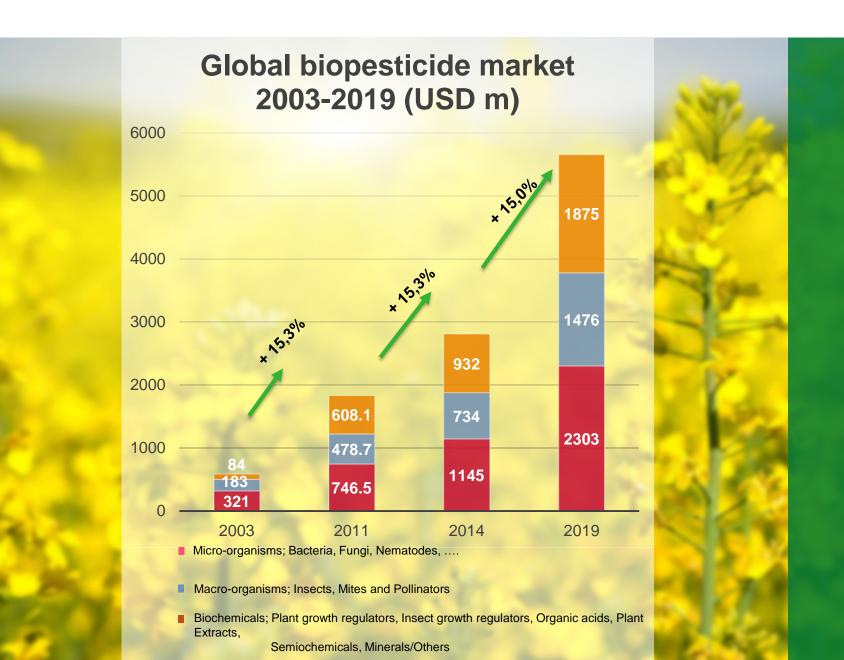




- The Market demands low residue or even residue-free produce
- Retailers and supermarkets impose non-statutory requirements on farmers
- More attention for worker safety
- Society and Legislators want less impact on public health, the environment and biodiversity
- Sustainable production: more production with less input and less impact

WE ARE IN THE CENTER OF THRIVING MARKET





- Chemical pesticides can and will no longer be the only basis for crop protection
- Integrated Pest and Disease Management will become the standard
- As Koppert we expect that we are just at a starting point of a thriving sector

CHALLENGES IN A GROWING BUSINESS





Product development

- R & D, Registration
- High Investment
- Too long and costly registration process
- Return of Investment
- Time to market long
- Time to volume challenging

CHALLENGES IN A GROWING BUSINESS



Sustainable Use of Pesticides Directive

- Priority for non-chemical products, and IPM
- Low risk a.s. and products
- In reality: little progress in availability and adoption of biopesticides
- Innovative legislation needed for low risk PPPs



BIOLOGICAL SOLUTIONS: SUSTAINABLE AND GROWING BUSINESS



