

keep
knowledge
growing

**Cirillo: Next Generation plant pest
phenotyping**



PHENOVERIUS

Introduction

Peter Korsten

- CEO
- Expertise: plant physiology

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Expertise



Physiology
Plant



Physiology
Seed



Growing Techniques
Growing systems



Growing Techniques
Growing materials



Plant health
Insects



Plant health
Fungi



Plant health
Weeds and Desiccation
of foliage

Phenoverius: Cirillo insect counting

- Cirillo: innovation in pest phenotyping
- The need of improved insect counting
 - Better insights in genotypic data for resistancy effects of varieties
 - Bio pesticide development: opportunity to create more detailed information about new products



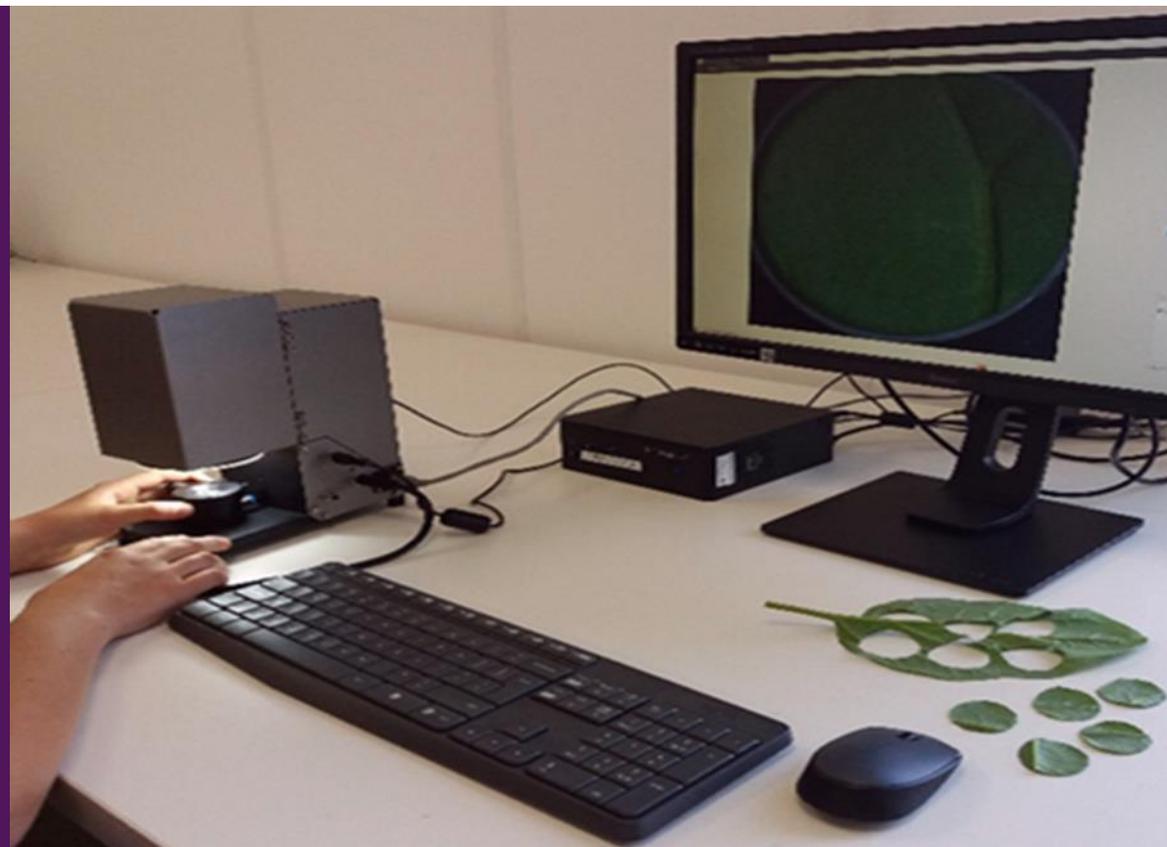
Cirillo



PHENOVERIUS

Cirillo is PhenoVerius' first automated system

The system provides the opportunity to count specific growth stages of insects with automated technology.



Cirillo



PHENOVERIUS

Pests:

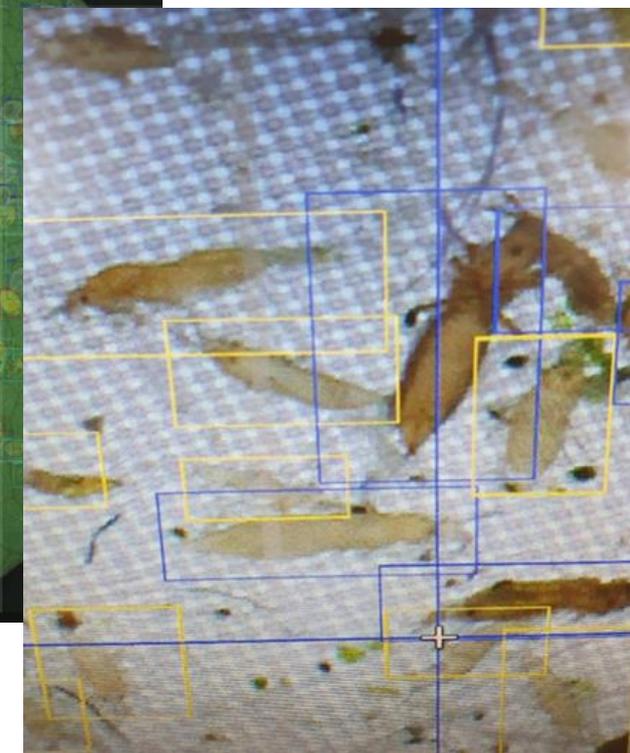
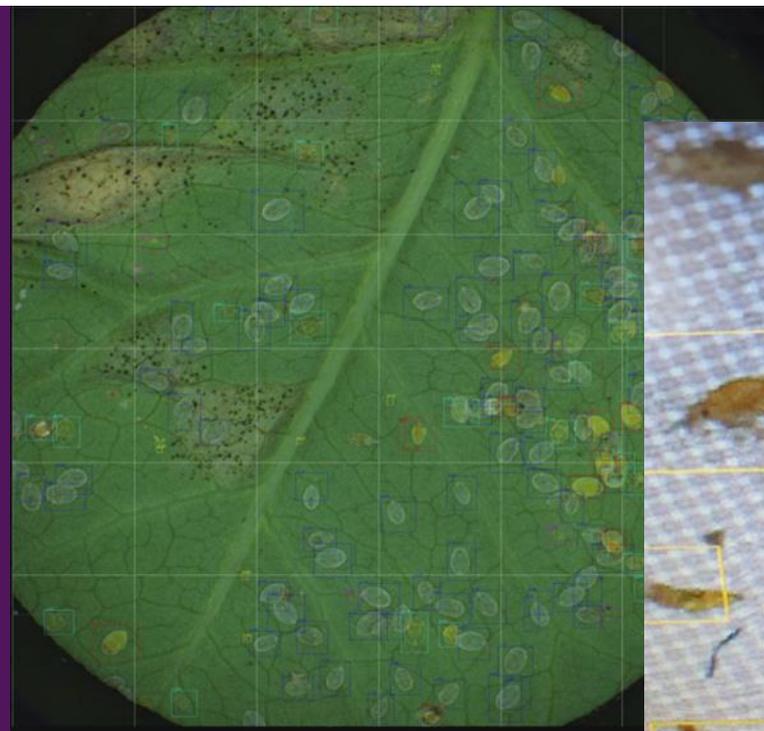
Trialeurodes vaporariorum, *Bemisia tabaci*,
Thrips (*Frankliniella* spp.), *Tetranychus urticae*

Crops:

generic, tomato, cucumber, Pepper,
strawberry, rose, chrysanthemum, gerbera

Growth stages:

Eggs, Crawlers, Larvae, Pupae, Hatched pupae



Detection process



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Collect leaves



Obtain digital images with Cirillo



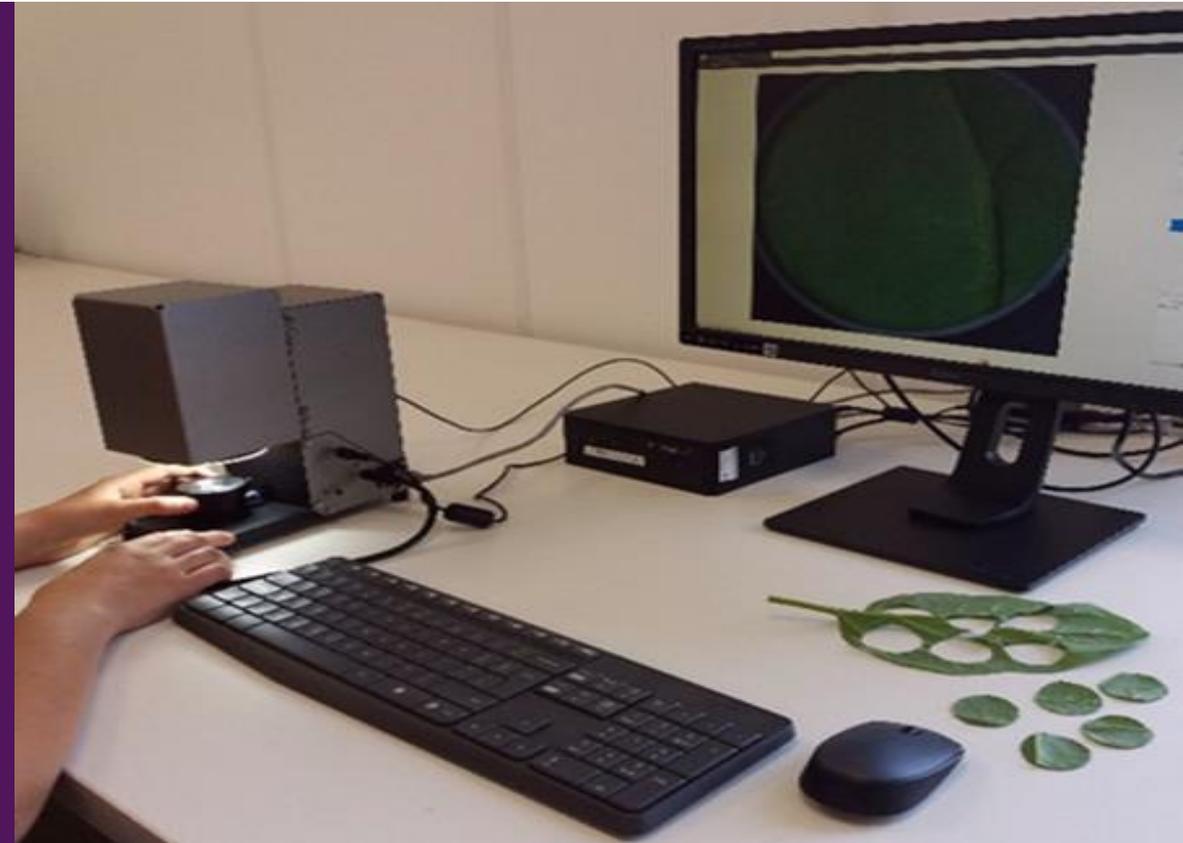
Analyse images



Output data



Customized reporting

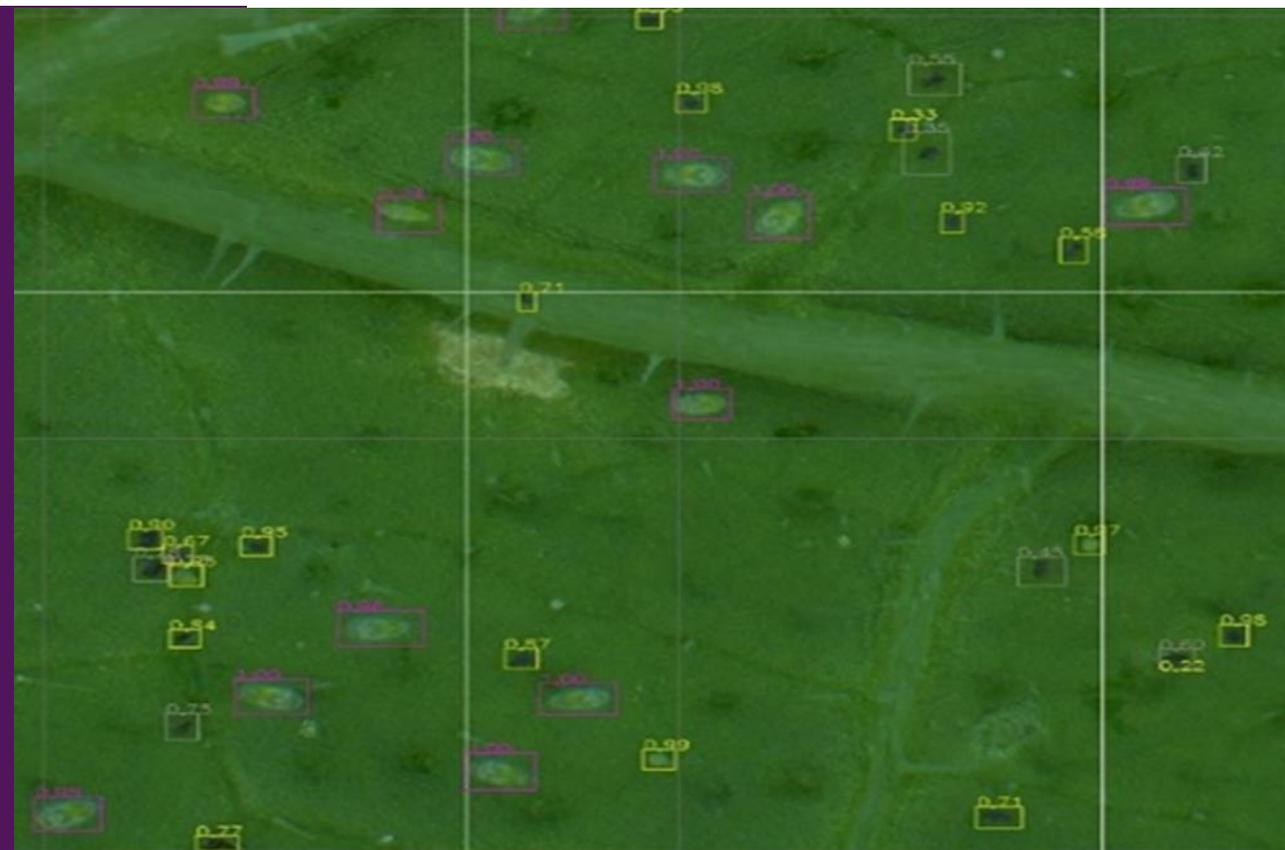


Advantages



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- + Accurate phenotyping
- + Uniform data across trials
- + Improved quality control
- + High throughput system
- + Reduces need of qualified labor
- + History of assessment images





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We deliver reliable data, develop and implement new technologies. We are constantly identifying and responding to market demand to help the food chain solve challenges.

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