Southern Agriculture and Horticulture Organization (ZLTO)

Ing. J.J.M. (John) Bal
Consultant Plant
ZLTO in our region

Agri & food
Nutricia
Sligro
Heineken
Jumbo supermarkten
Heijmans
Masterfoods
Vion
HAS Hogeschool
Friesland Campina
Essent
Unilever
...

Hightech
ASML
Philips
Brainport Region
Eindhoven University of Technology
Royal DSM
NXP
Océ
DAF Trucks
VDL groep
Vanderlande Industries
Fei Company
Sioux Group
Neways Technologies
...

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Smartfarming PLANT

Integrated Management Cycle

Sub-parcel/plant specific application of H₂O, N, P, etc.  

Integrated techniques for plant specific treatment

Farmers and contractors sharing cultivation data
Robotica in Agro&Food

Farm
- Collect data (field / greenhouse) (meadow / stable)
- Labour (plant / animal specific treatments, harvest)
- Monitor plant / animal health

Warehouse
- Labour to sort, grade and pack product
- Product control in controled atmosphere storage (Ultra Low Oxygen)
Robotica in Agro&Food

Challenges

• Hard conditions (climate, dust, dirt, wet)
• Stability in the field / meadow
• Non uniform products
• Delicate products (eggs, berries)
• Economical profitable (costs, speed)
Robot platforms
Weed control
Pest and disease control
Treatment
Harvest
Smartfarming ANIMAL

- Animal specific treatment
- Group to animal specific treatment
- House specific to group specific treatment
Animal husbandry