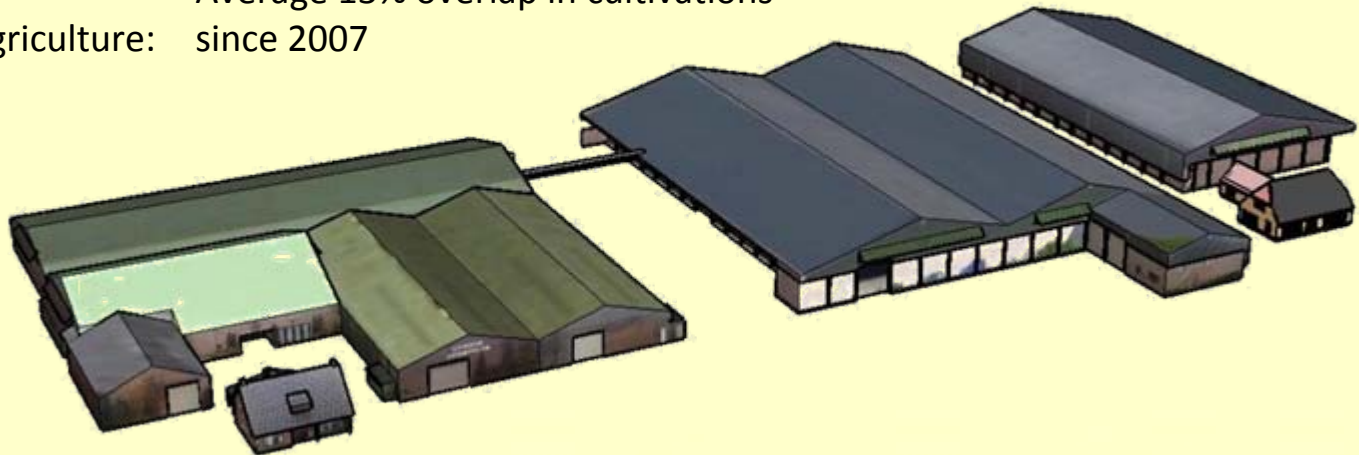
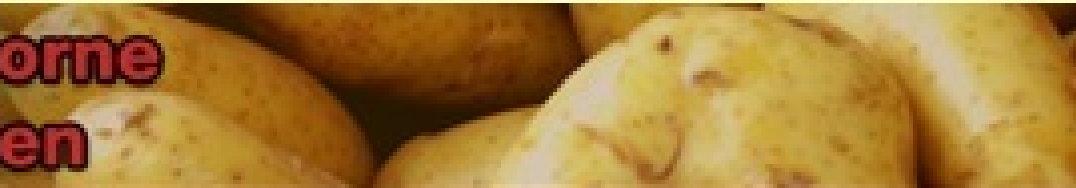


# Van den Borne Aardappelen

Sector: Arable farming  
Location : Reusel, Noord-Brabant  
Crops: Potatoes, sugar beet, maize  
Personnel: 3 co-workers  
Soil type: Sand low organic matter content  
Drought sensitive, 50% irrigation  
fields: 140 fields: average size 3 ha  
Average 6 corner points per field  
Average 13% overlap in cultivations  
Precision agriculture: since 2007



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# How do I get my knowledge?

Organize direct contact with the developers

(machine builders, ICT, advisors, Universities)

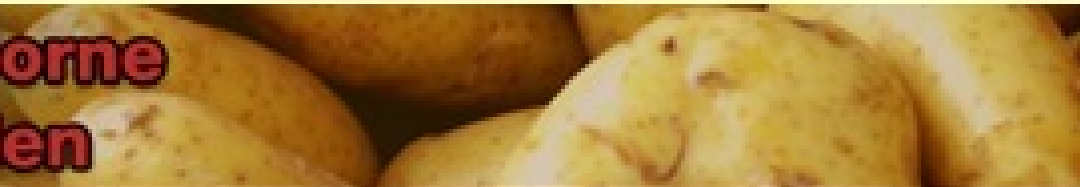
Building an extensive network, by

- Supporting them with real life and real time precision farming data.
- Suggesting contacts with other key experts in the developing chains (machines, ICT, cropping systems )

ZLTO & Boerenbond help, Projects may help

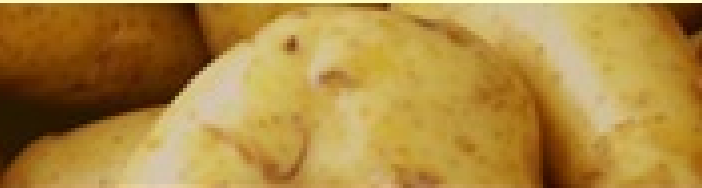


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# Precision farming

- Field mapping (GPS) 150 ha each year
- Soil mapping (samples and scans) 150 ha each year
- Calculating and optimizing position tramlines cultivation
- Shadow calculations and adoption of crop density
- Sensing techniques
  - Precision application crop protection and fertilisation
  - GPS and soilsensor irrigation
- Harvesting with yield mapping 450 ha each year
- Integration of all data



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# Partners- Projects- Coalitions: Making Sense

Partnership for developing decision support systems on soil fertility and crop fertilization, based on;

- Physical, chemical, biological processes
- Soil & Crop sensor data
- Wheater data
- Soil & Crop models

300k , No sponsoring



BLGG AGROXPERTUS



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# Partners – projects - coalitions

## PPL – Program Precision Agriculture

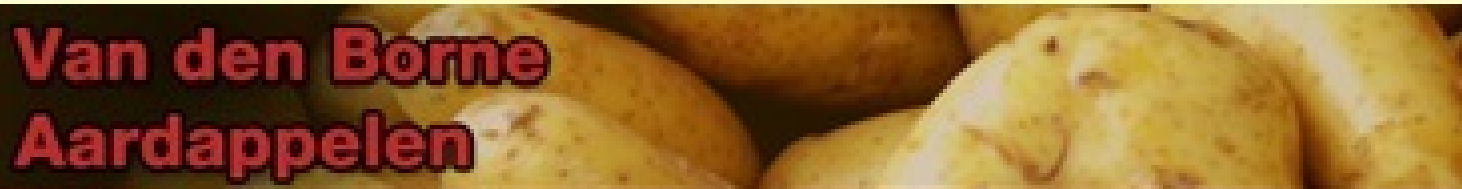
- the application of pesticides and fertilizers,
- Phytophthora DSS based on sensor data,
- sensor development,
- precision planning potato cycle (all related operations)
- 38 partners



6M agri&business, 6M Ministry Agriculture



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# Partners – projects - coalitions

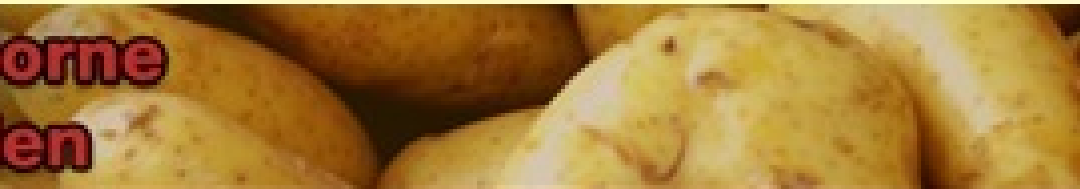
## Farmersandclimate.nl



- Strategies reducing carbon footprint
  - Network approach motor for focussed R&D
  - Precision farming reduces footprint
- Cooperative effort 2010-2013
  - 16 farmers (conventional and organic) in arable farming, poultry and pig husbandry
  - Communication trough farmers organizations
- Network approach motor for focussed R&D
  - 300k Min.Agri



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# Current Projects

	Goal	Bring	Collect	input	Subs	Total
Making Sense	better decisions on soil&crop fertility	data & cycle analysis	soil anal, large calculations	20k	none	300k
Programme Precision Agri	intro man.tools	new technique	test new technique	300k	none (300)	2 * 6M
Farmers & Climate	network	massive data	CO2 calculations			300k
Clean Economic Precise	fertilizer app	dissemination	experience colleagues	25k	10k	250k
Agri Innovation Bureau	Precision Irrigation	invest & applicate	contri very new tech	26k	6k	32k
Clean Maas	Clean surface water	invest biofiltre	knowledge to make	10k	5k	1 m
Unifarm	More use of GNSS	usecases, perspective	contacts, GNSS			680k
IPC Precision Agri	crop man. Dairy farmers	invest soil sensor	research on NIR	40k	25k	1 m
Vito SME project (EFRO)	apps for SME	practical usecase	data analysis & GEOpresent.	20k	40k	60k
in 3 years				440k	66k	



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# Suggestions for innovation

- Direct contacts between key users & experts
- Build networks for Open Data and – apps.
- Exchange Farmers knowledge & data for research&development
- Public investment for key developers, with Intelligent steering by entrepreneurs (miles system)
- Coalitions business partners & stakeholders



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# Thank you for the attention!

Questions?



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