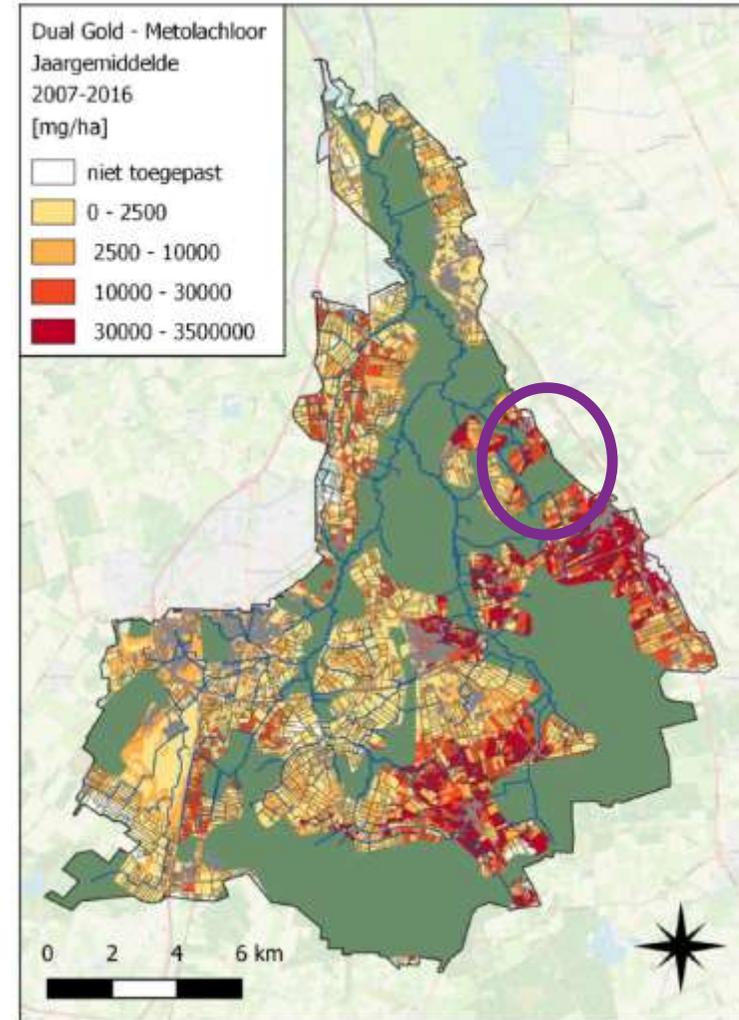
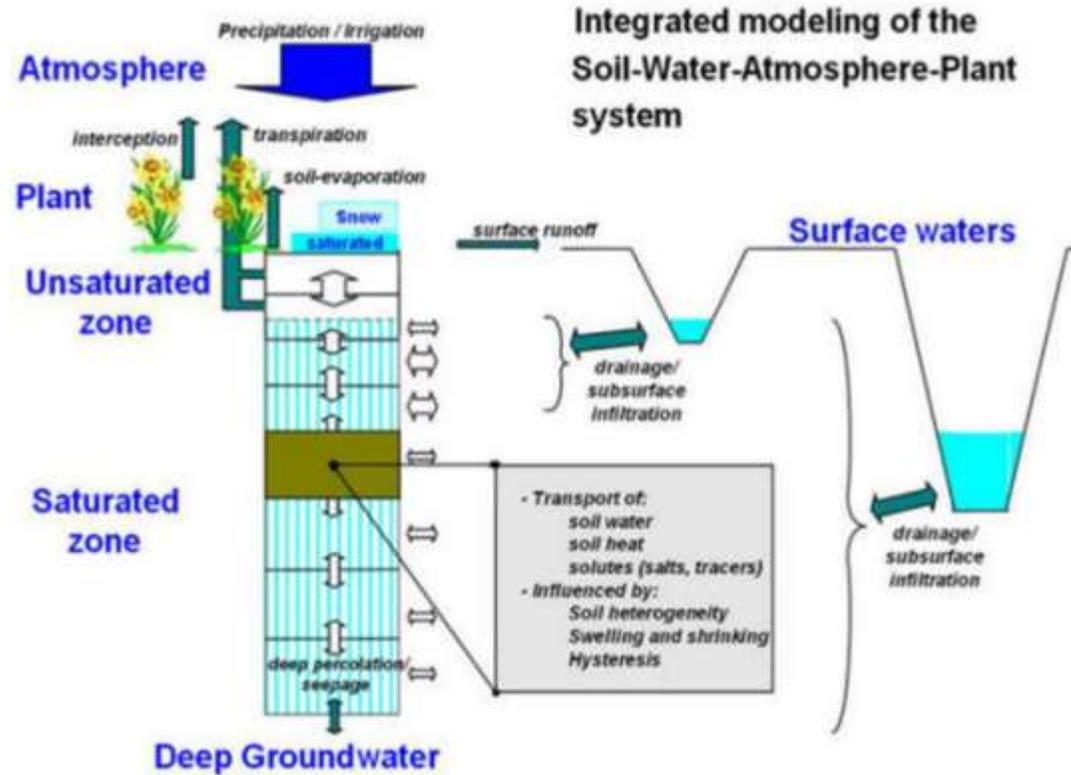


**on decreasing run-off pesticides
to the surface water**



Topsoil first phase



From integrated modelling → risk maps

Topsoil extension

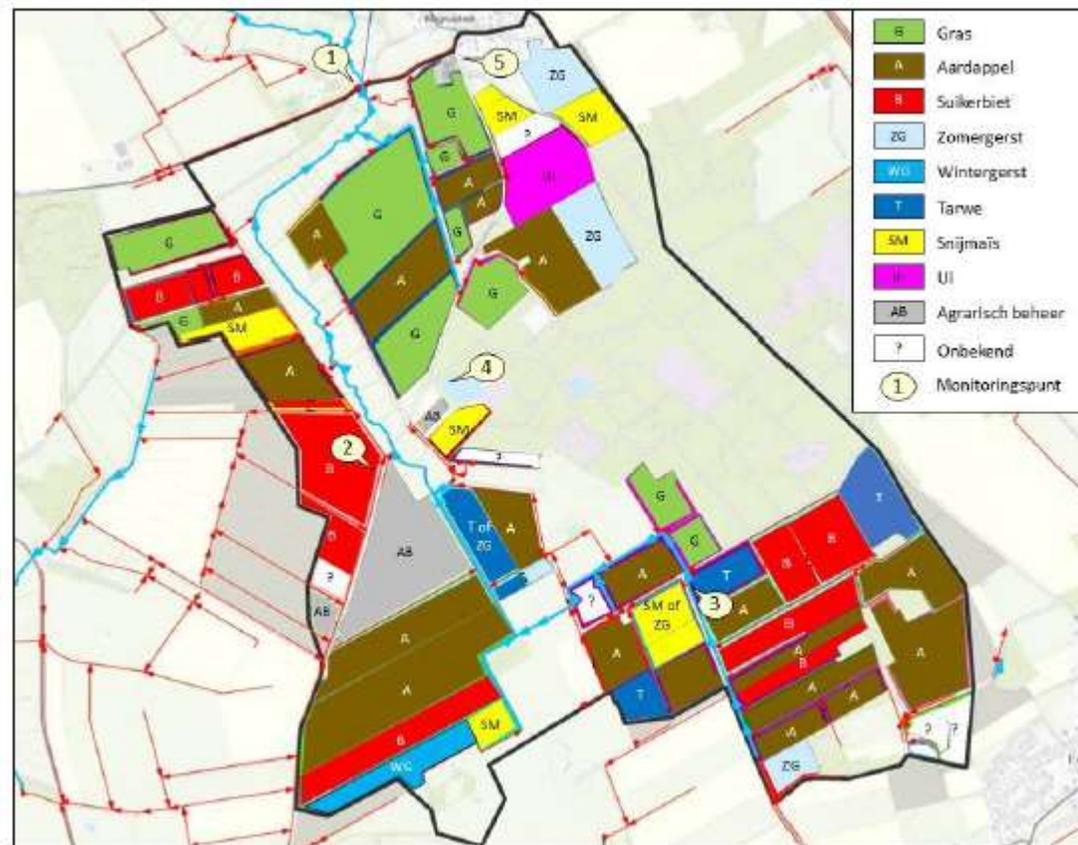
Pilot area

600 hectare

19 farmers involved

350 ha farmland

Sugarcane, potatoes, cereals and grass



Catchment based approach:
the pilot activities for the extension

1. Advisory activities on farm level; detailed research on soil status individual fields (TOPPS)
2. Testing measures including new machinery (field trails)
3. Field demonstrations
4. Monitoring water quality
5. Subsidy arrangement
6. Stakeholder involvement

1. Advisory activities on farm level

TOPPS = Train Operators to promote best management Practices & Sustainability

<https://www.ecpa.eu/stewardship/stewardship-activity/topps-water-protection>

- Soil survey and risk scans leaching and run off
- advise for soil tillage, cultivation crops, machinery
- Own ideas of farmers

2. Testing new machinerie

Shallow compact soil
→ woelpoot (increasing infiltration)



Run-off
→ Wafeltjesrol (less runoff)



3. Field demonstrations

8 July
Mechanical maintenance buffer
strips



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Bionalan Selac



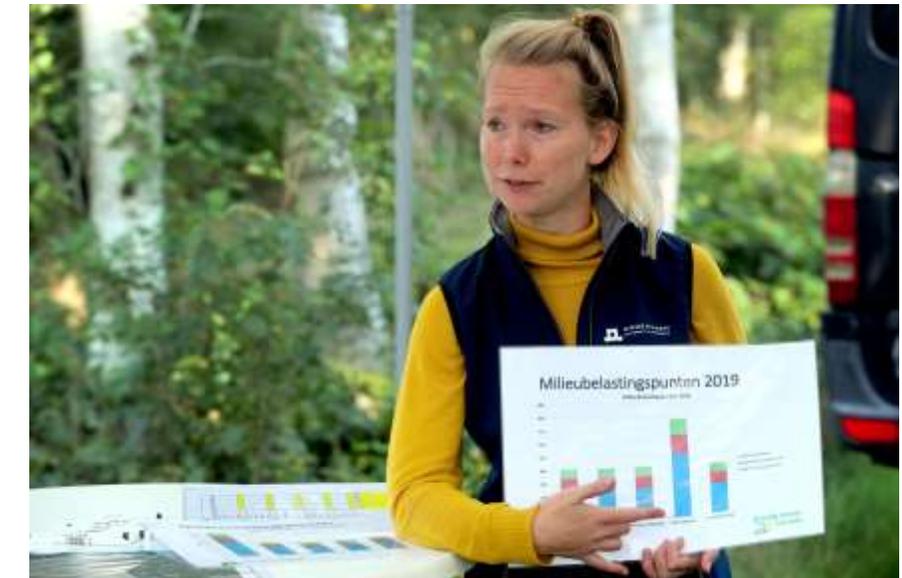
CombCut



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3. Field demonstrations

11 September 2020
Using pesticides in maize in
combination with catch crops



3. Field demonstrations

15 September 2020
Place located use of pesticides in
grassland

Agrifac sprayer



Hand spray with quad



4. Monitoring

Focus on pesticides

Goal: – Impact measures
– Origin pesticides

Different sub areas (sugarcane /
potatoes / nature / rainwater /
urban water)

9 samplings on 5 measuring
points (April – October) 2020 and 2021



5. Subsidy arrangement

Advising

Investments:

Buffer strips (25–30% reduction pesticides)

Buffer strips g infiltration ditch

Machinery (example: ECO plough)

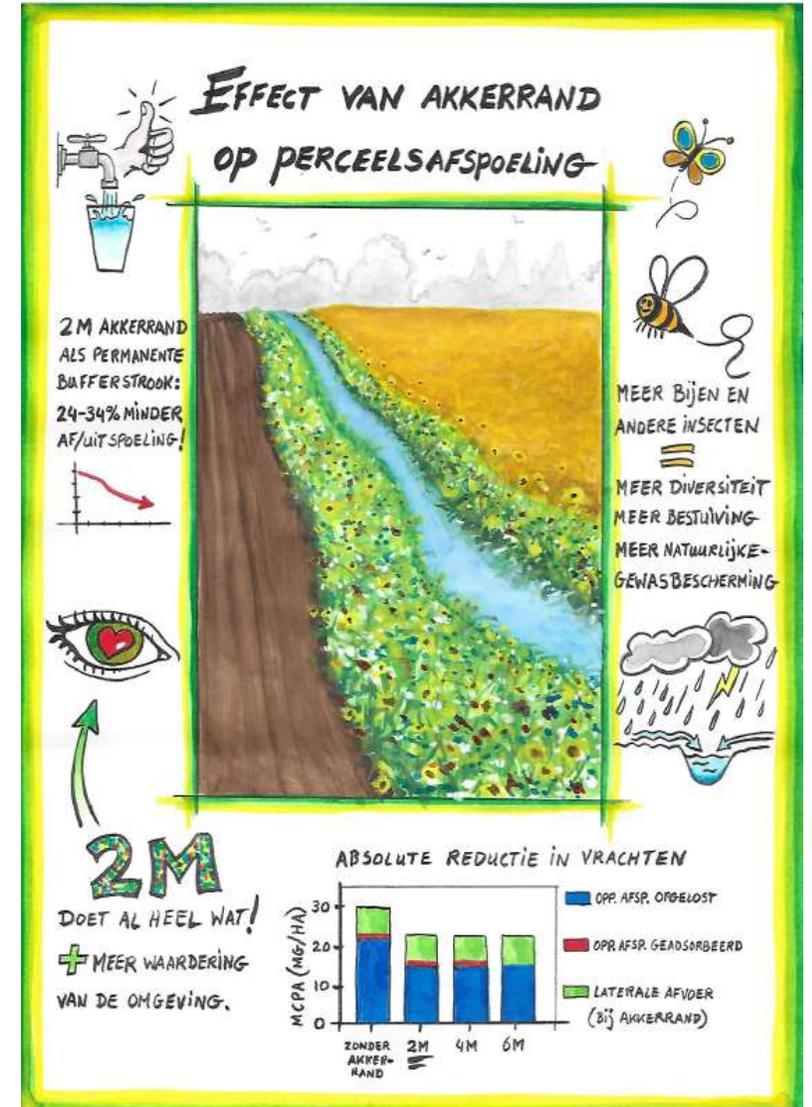


6. Stakeholder involvement

Consultation group:
regular consultation on giving direction to the pilot: are we doing the rights things

Members
agricultural organisations
advisory consultants
agricultural youth organisation
agricultural nature organisation
state forestry

newsletters for members
demonstrations on measures
reports on results : contribution to WFD aims



TTEM is going to be used in this pilot

more detail information about the underground

how can it be used by farmer in daily practice?

Experiment will be unique for the Netherlands and will give boost to apply this on country scale (TNO)

1. How to upscale measures
2. How to cope with pesticides we measure that aren't used by the farmers in the pilot: dry and wet deposition?
3. When do we consider enough measures have been taken?
What will be the message to the farmers?

Old

10 % less run off by using bufferzones including the 20% increase because of climate change

New

1. Measured impact of reduction pesticides on the outflow location of the area
2. Estimated reduction loss of pesticides by all used measures in the pilot area
3. Potential impact new machinery on loss of pesticides
4. Awareness farmers for possibility reduce loss of pesticides