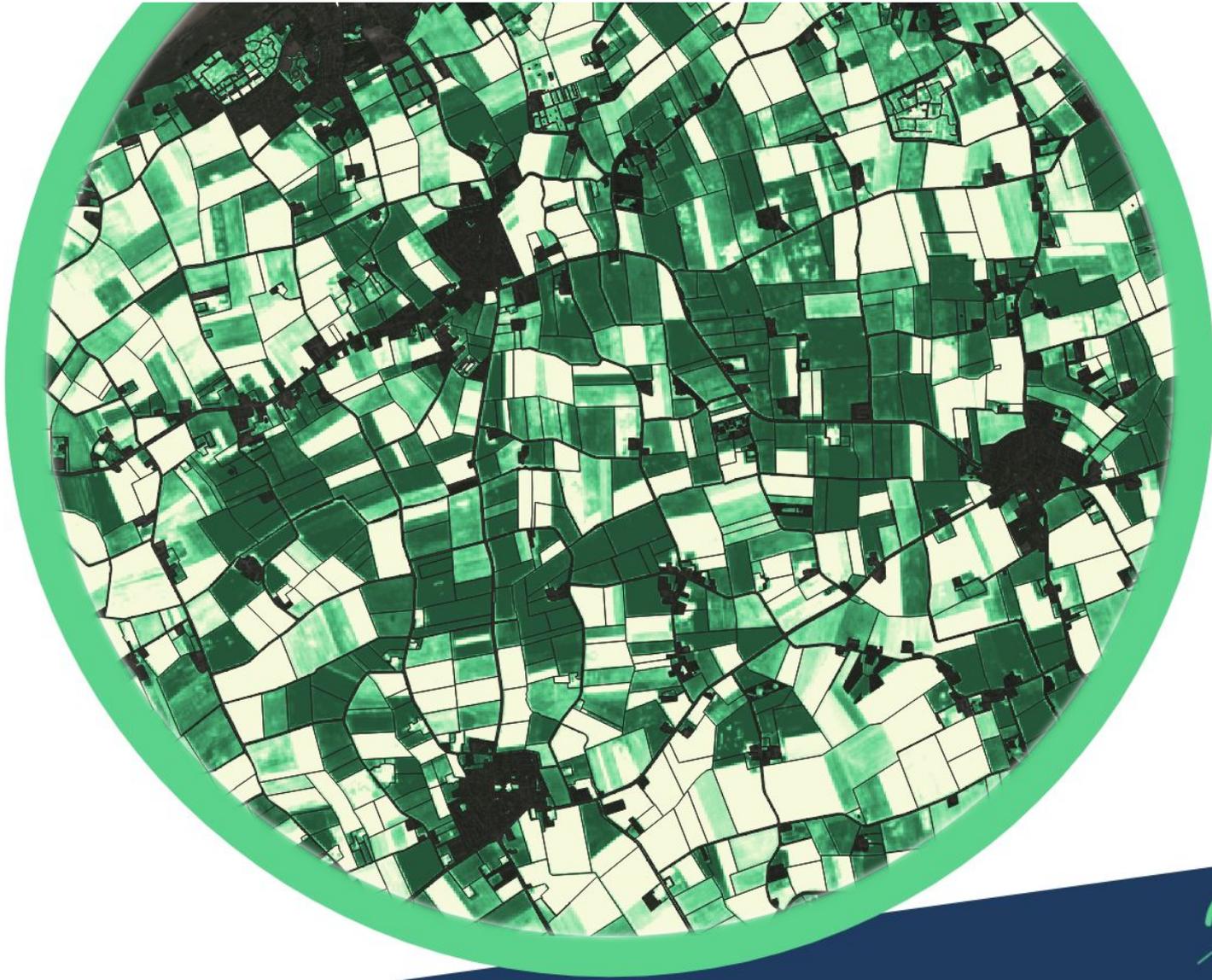




**DYNA**  
**CROP**  
SPACE

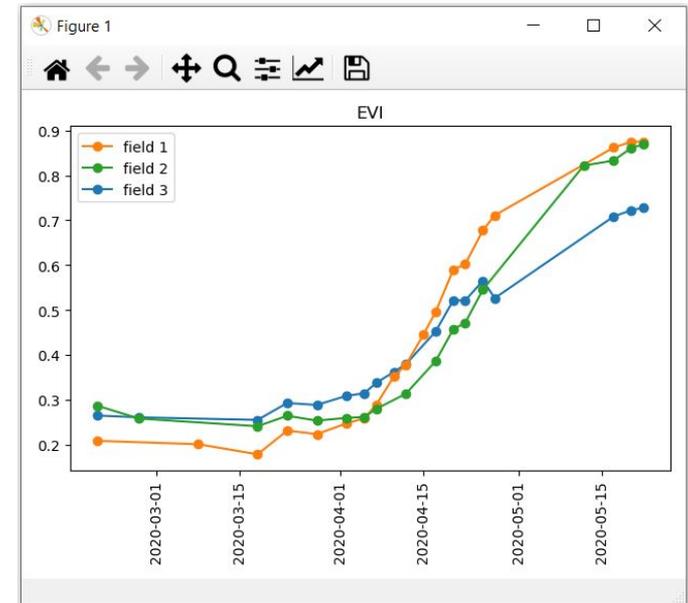
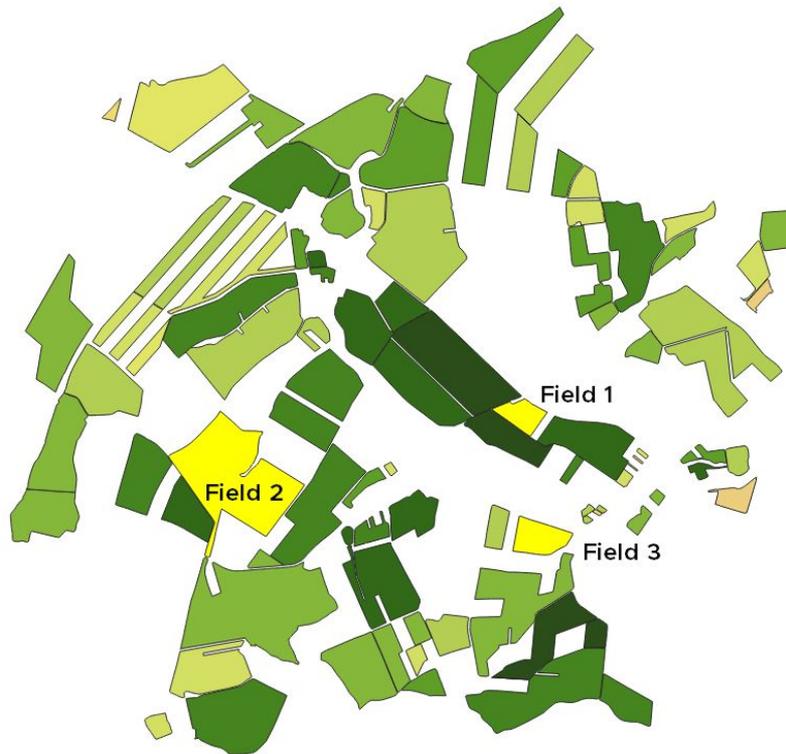
# #1 Large-scale crop monitoring



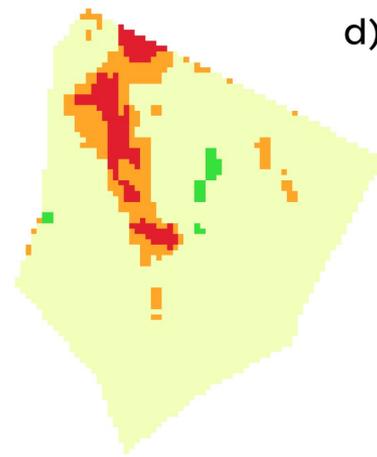
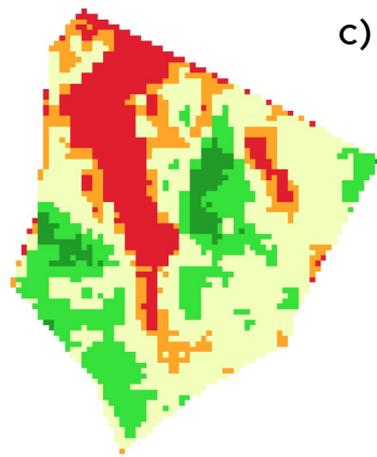
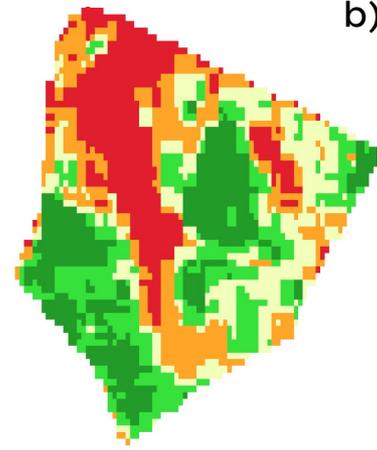
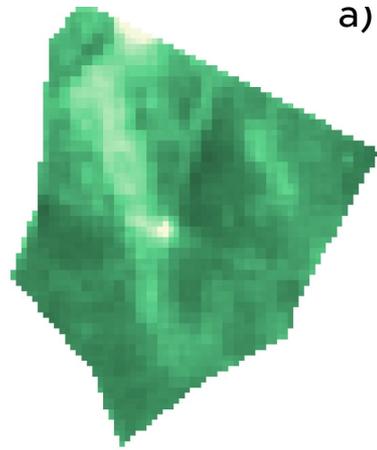
## #2 Fields comparison and prioritization



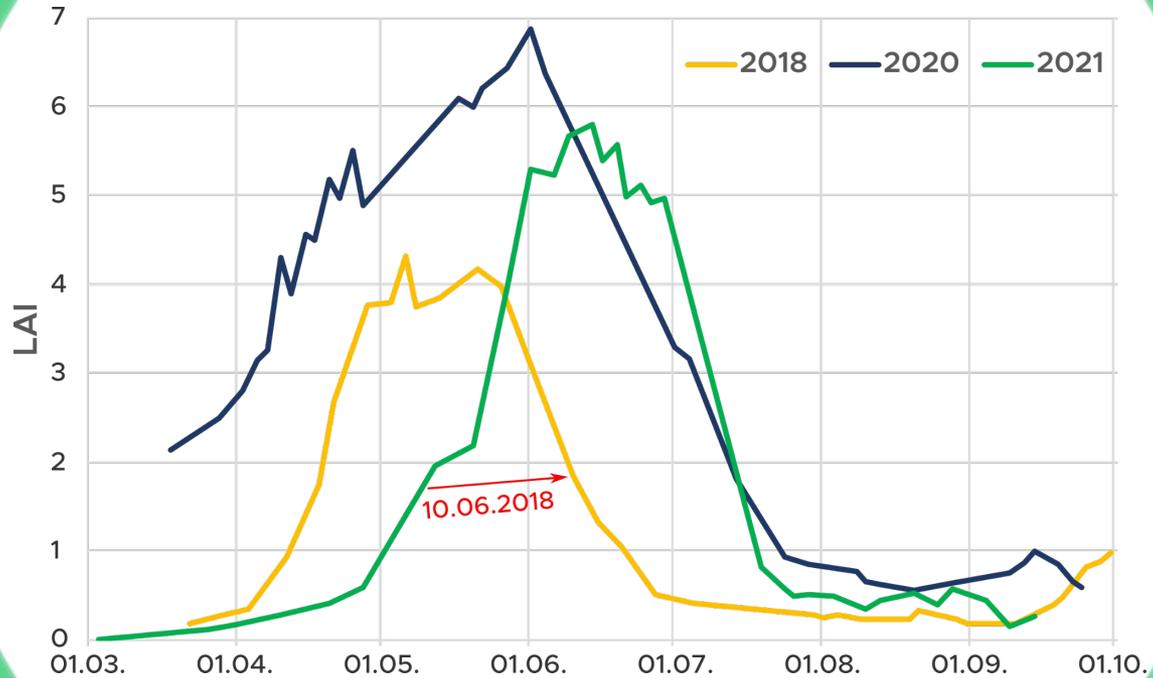
# #2 Fields comparison and prioritization



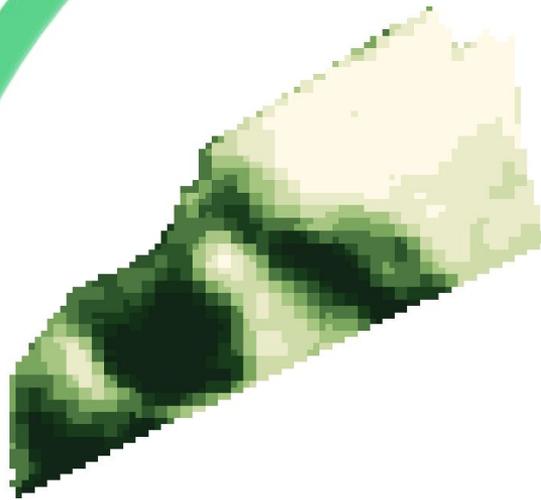
# #3 Growth variability



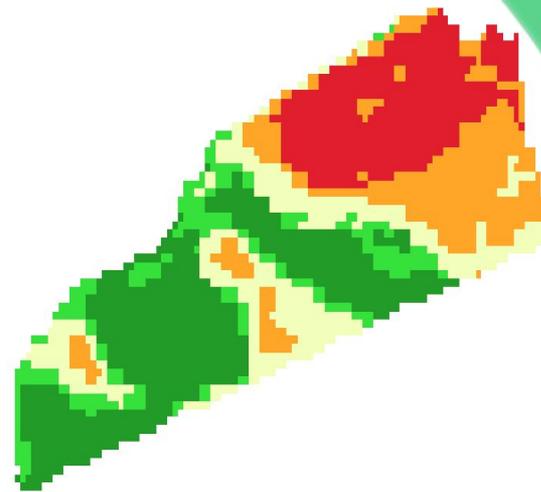
# #4 Growth anomalies



# #4 Growth anomalies

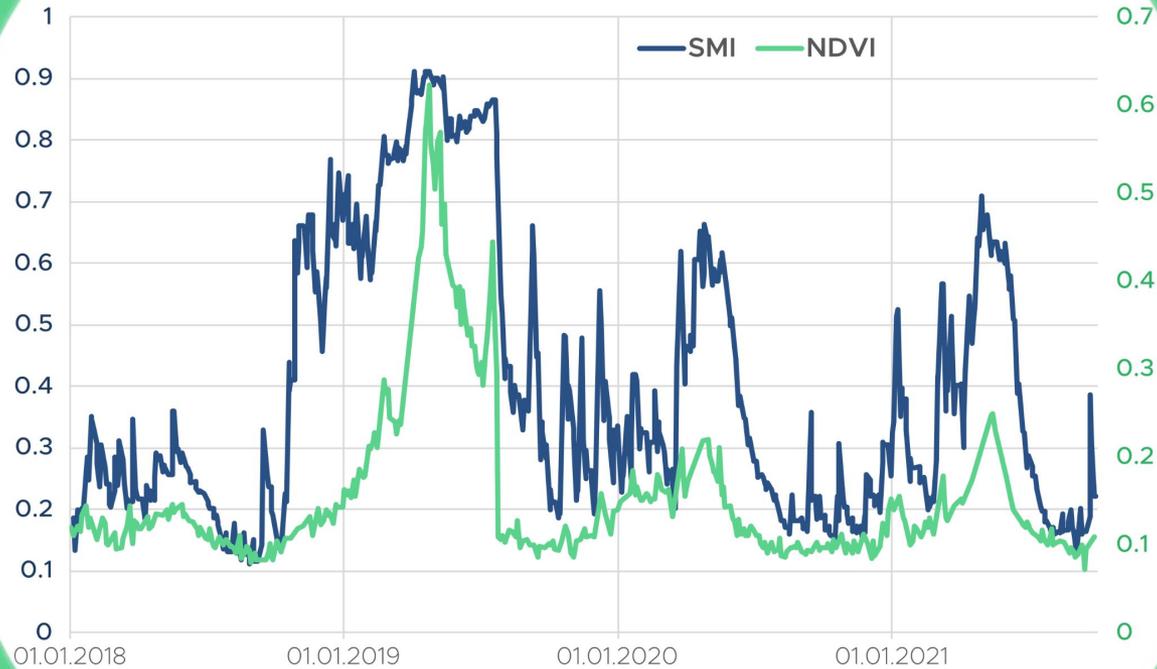


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  "layer": "LAI",  
}
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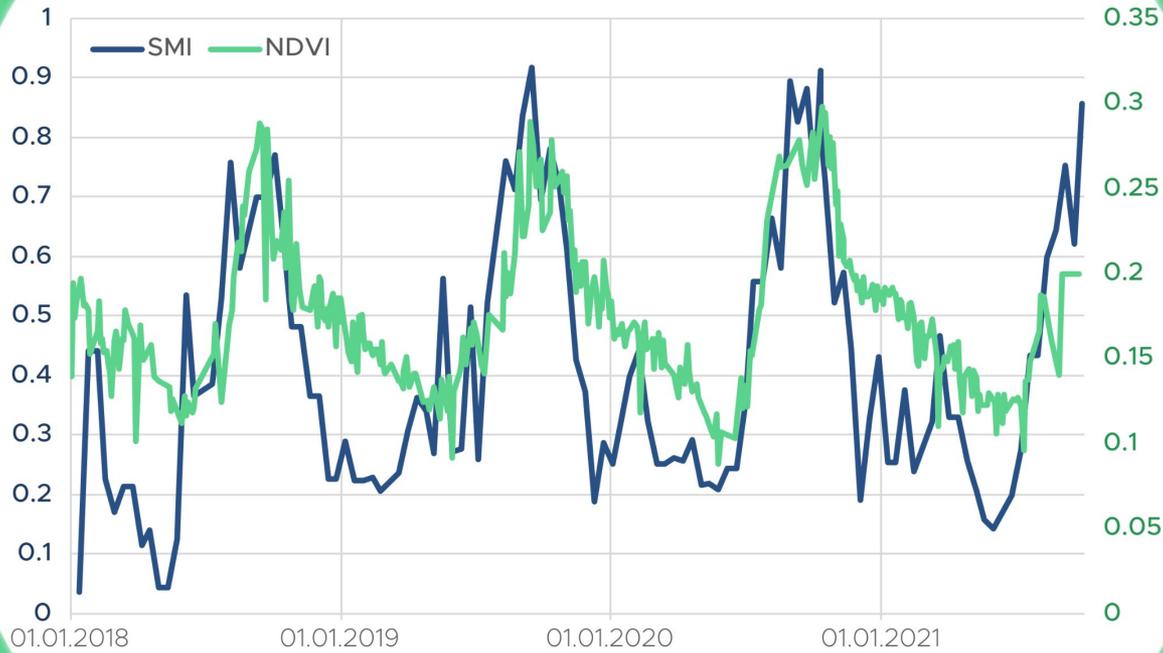


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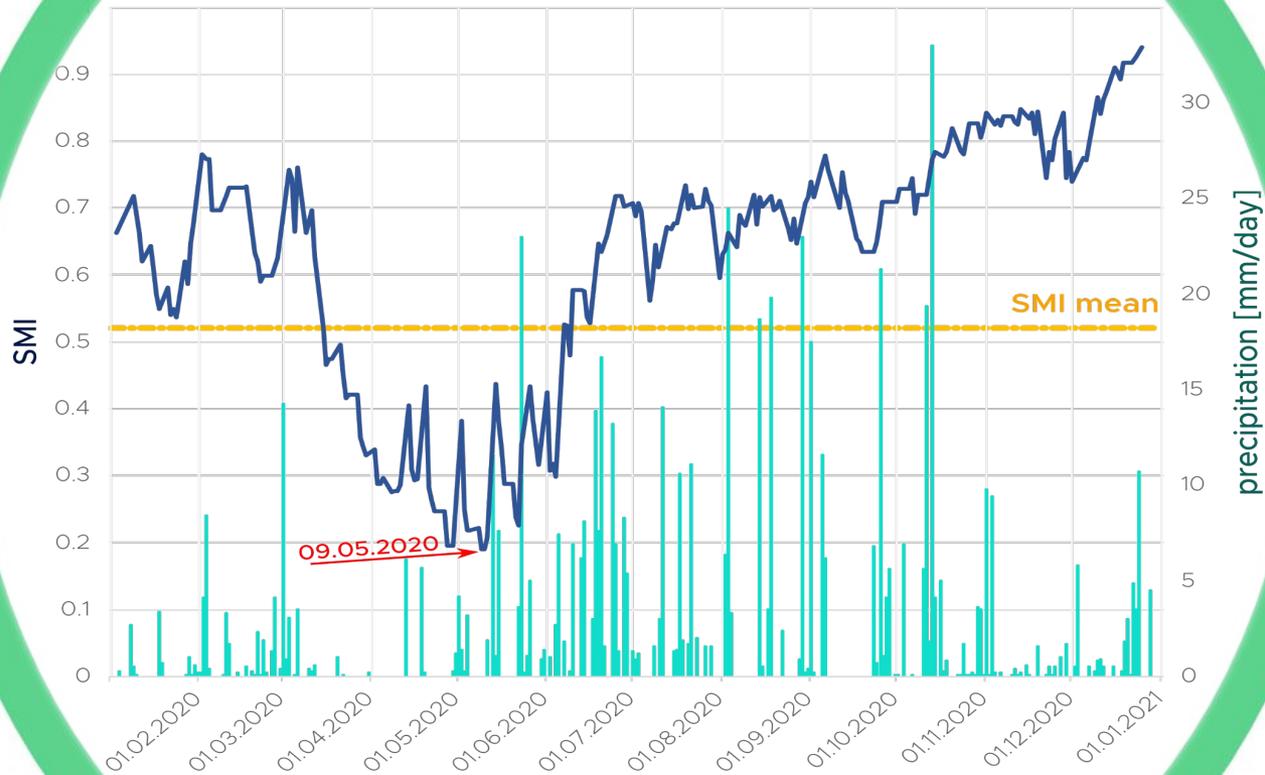
# #5 Seasonal development



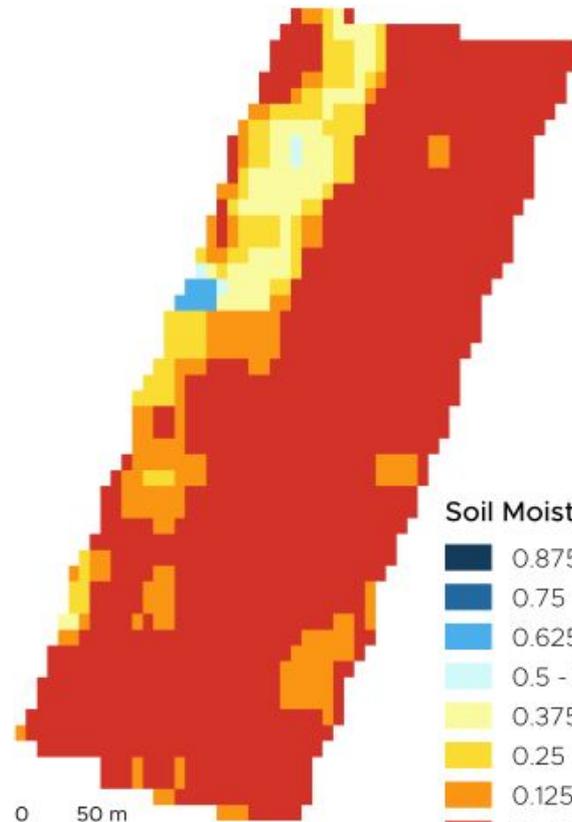
# #5 Seasonal development



# #6 Drought monitoring

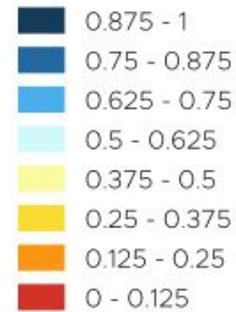


# #6 Drought monitoring



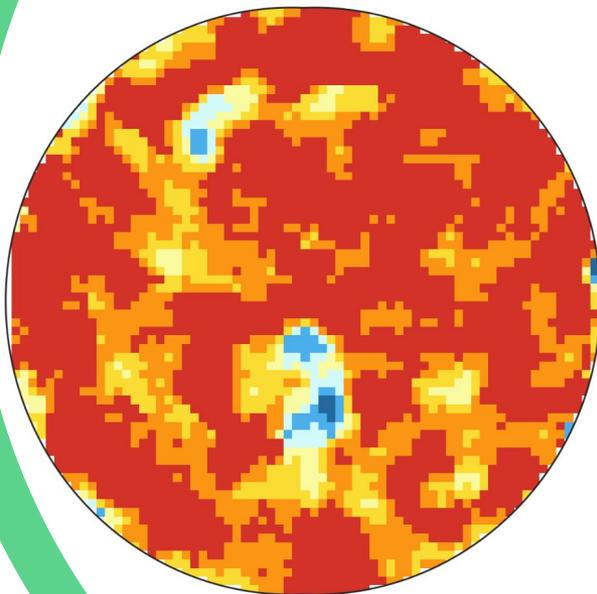
09/05/2020

Soil Moisture Index

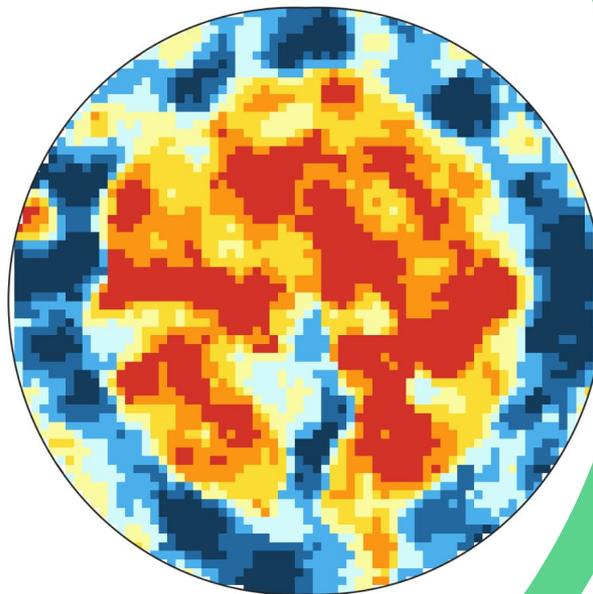


# #7 Irrigation

28/09/2020



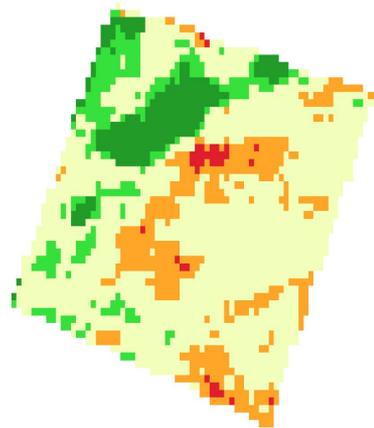
10/10/2020



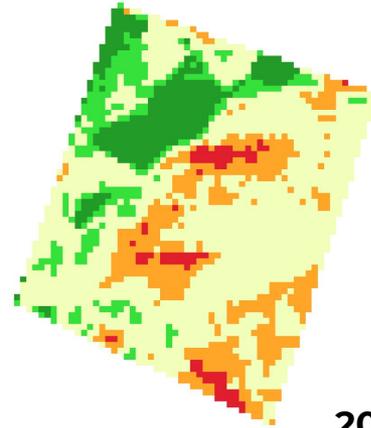
# #8 Standing water identification



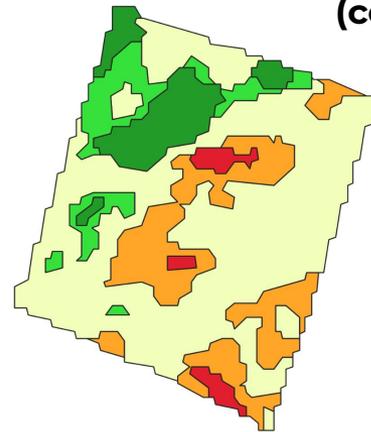
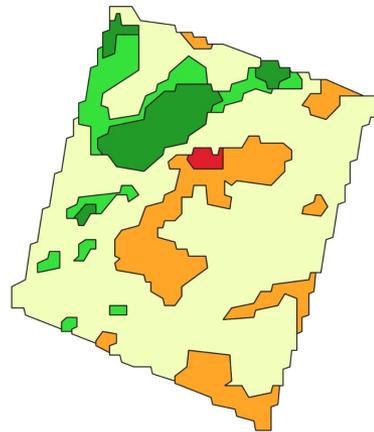
# #9 Yield potential map



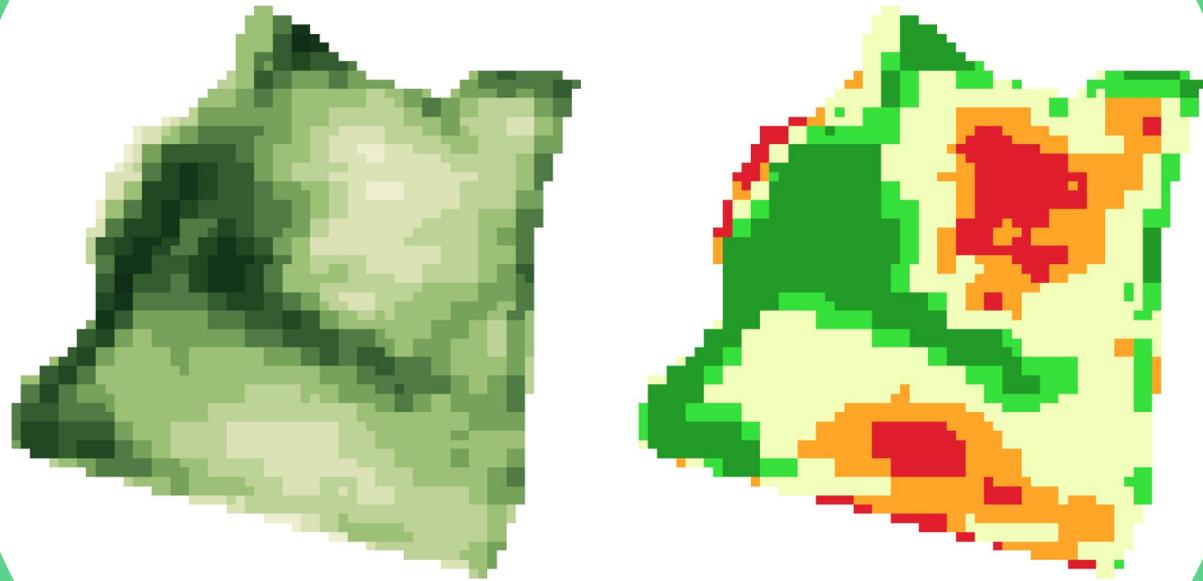
2017 - 2021  
(all crops)



2018, 2020, 2021  
(corn only)

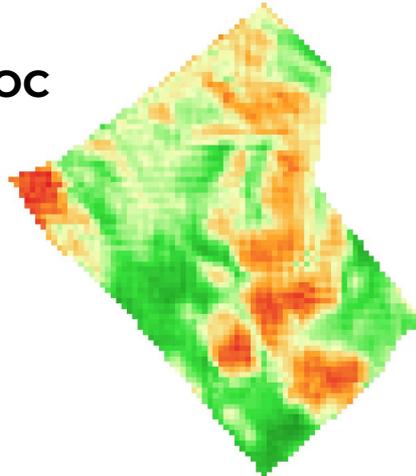


# #10 Growth regulators application

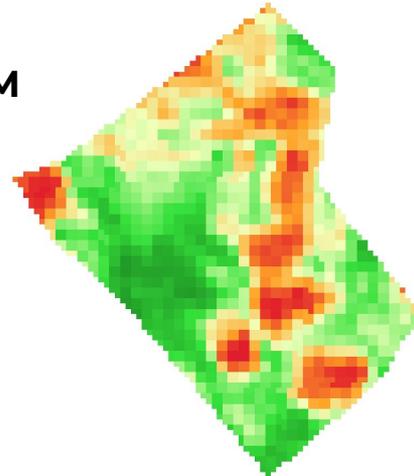


# #11 Soil sampling optimization

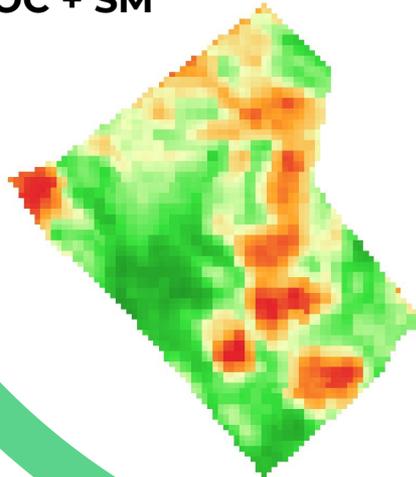
SOC



SM



SOC + SM

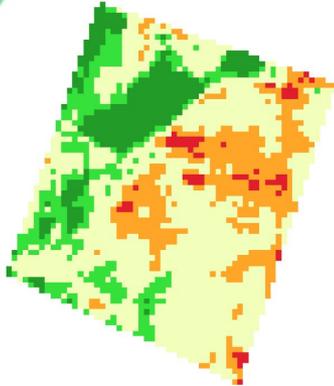


management zones

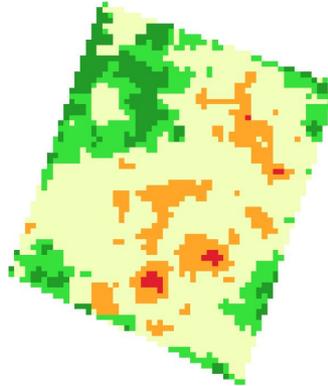


# #12 VRA of nitrogen

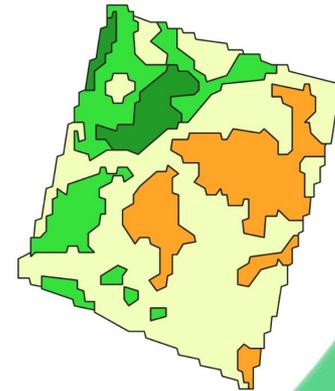
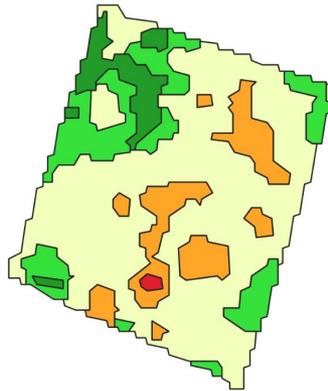
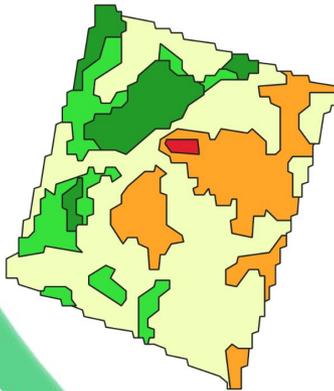
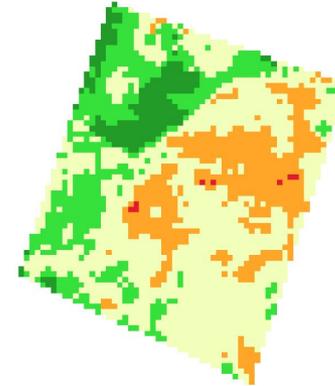
NDVI (2017-2020)



MSAVI2 (2021)

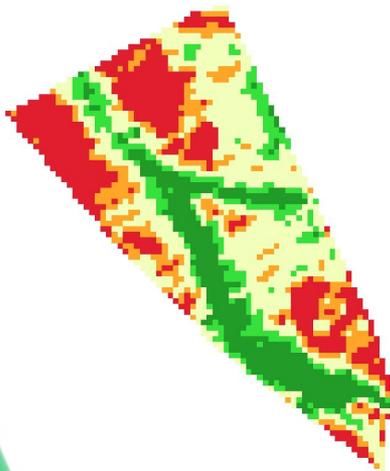


NDVI + MSAVI2

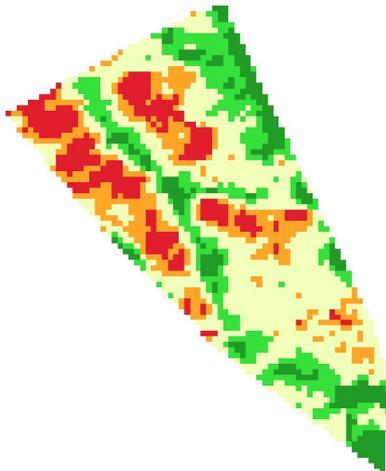


# #13 Compensation fertilization

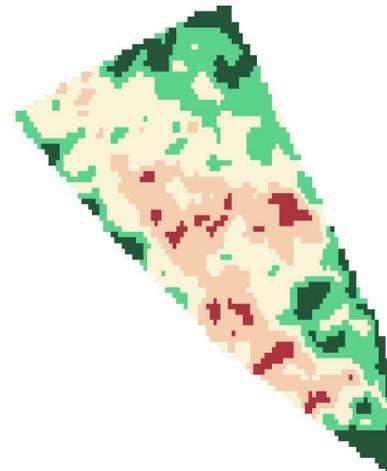
yield potential  
(2017-2020)



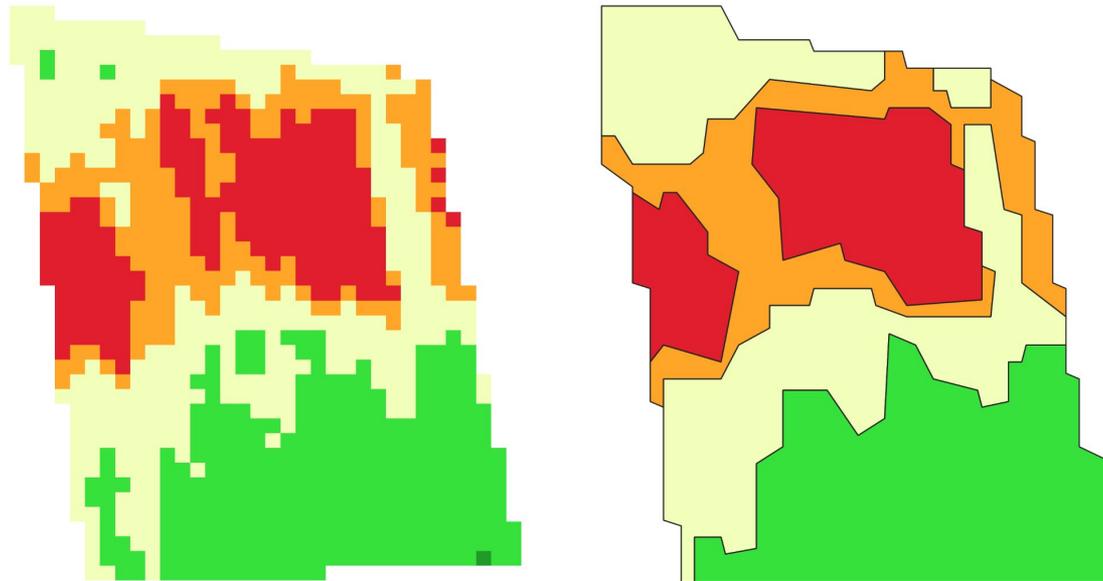
current state  
(2021)



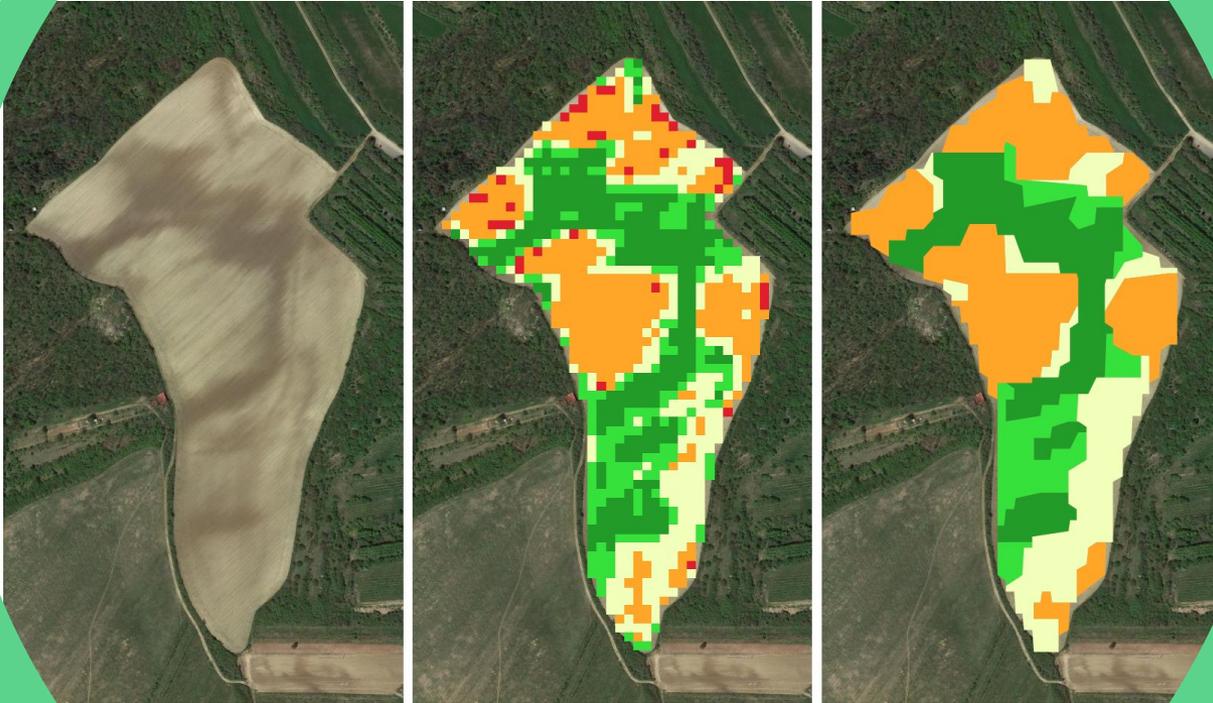
difference



# #14 Variable seeding



# #15 Soil Organic Carbon Estimation



# #16 Phenology and timing

Coming  
2022

Traditionally, I observe crop growth stages from the ground, but it is time-consuming and I am not always able to capture spatial variability in some of my larger fields. Is there a possibility to assess crop phenology more effectively and time agricultural activities in my fields more precisely?

**DynaCrop solution:**

# #17 Cloud-independent monitoring

Coming  
2022

Optical satellite imagery provides accurate information about vegetation health on cloudless days. But there are many more days with clouds, and the inability to get crop information from satellites during a critical point within the growing season can fundamentally affect farmers' confidence in the use of satellite data.

## DynaCrop solution:

- use of radar and optical satellite imagery combined with advanced machine learning and optimization techniques
- increased number of observations and 100% reliability

# #18 Crop maturity

Where to start with the harvest? Where is residual moisture of grain lower? Where to make field measurement to start from the priority field?

Coming  
2022

**DynaCrop solution:**



**DYNA**  
**CROP**  
SPACE