
User: custodian
Wednesday, July 26, 2023, 18:59:49
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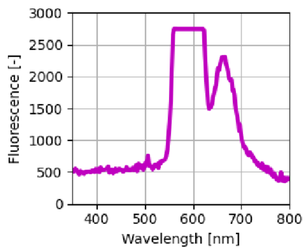
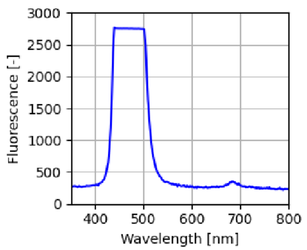
introduction

- In 2023 we performed a test in cooperation with KBF and Noardlike Fryske Wâlden to monitor ditch and soil quality.
- We successfully tested our surface water and soil sensors at farms in Jistrum and De Tike and drafted a dashboard.
- In March 2024 our soil and water sensors 2.0, developed in the framework of CircinWater, will be ready.
- The tests will be continued with the new sensors in 2024 and used for validating our physics based models relating soil quality to ditch water quality.
- The results will provide farmers information on the relation between soil and water quality and tools for improving their operations.
- The data will also provide tools to farmers to prove their ecologically friendly operations.

approach

Soil and water sensors





sensor data

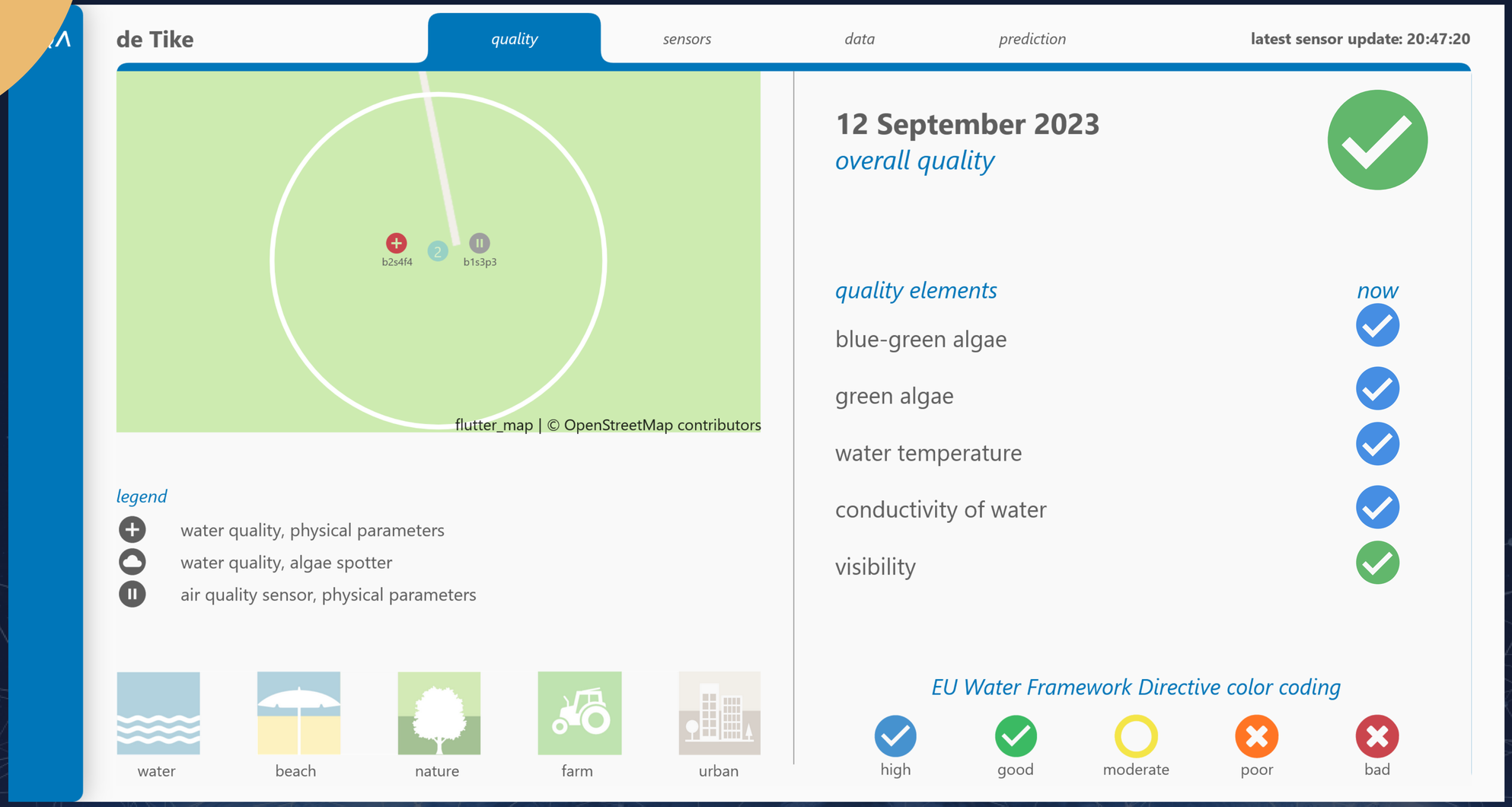
floater
water sensor
spectra

pinner
ground sensor

future
sensor(s)

results

Tests at farmers in cooperation with KBF



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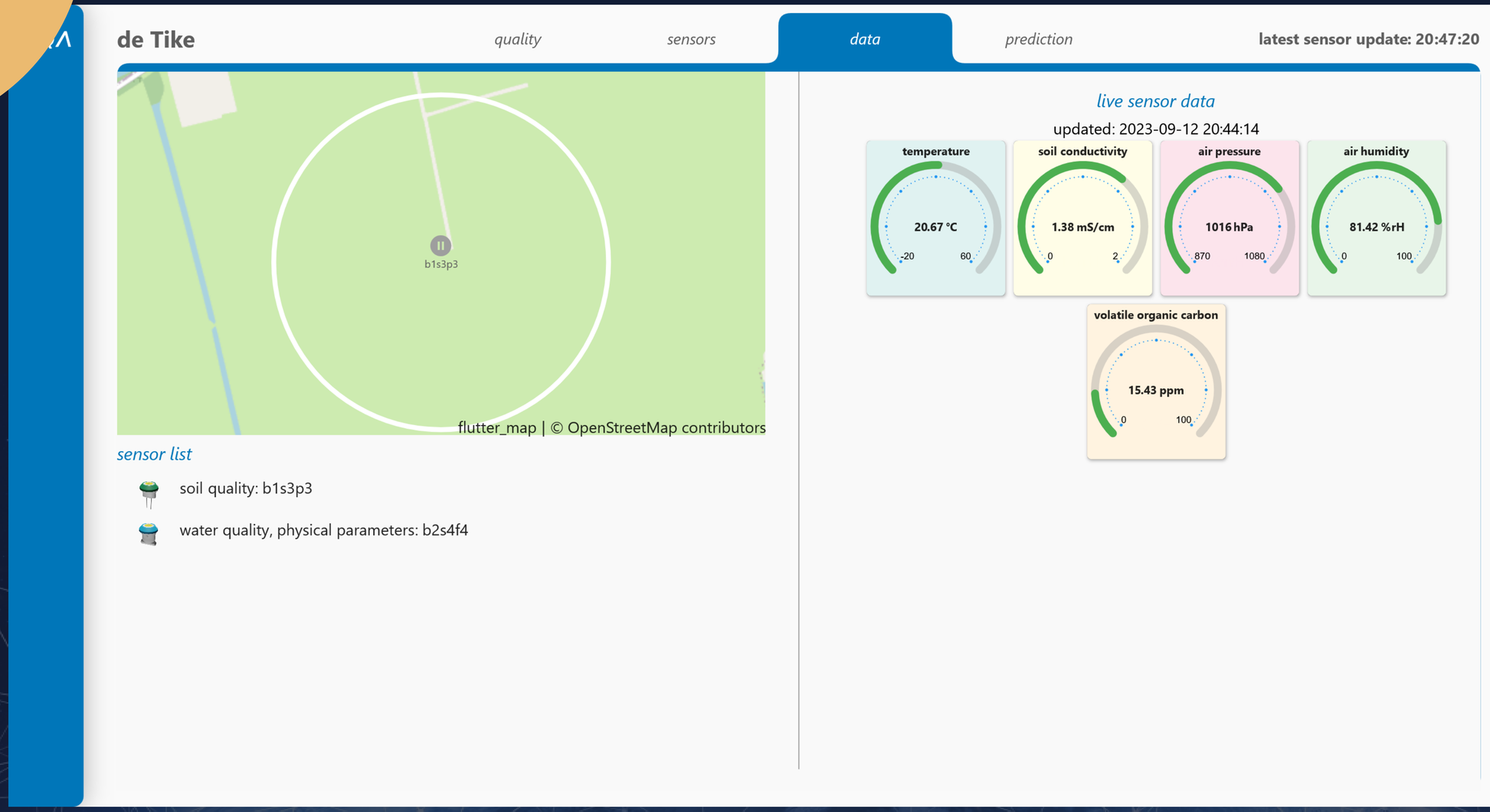
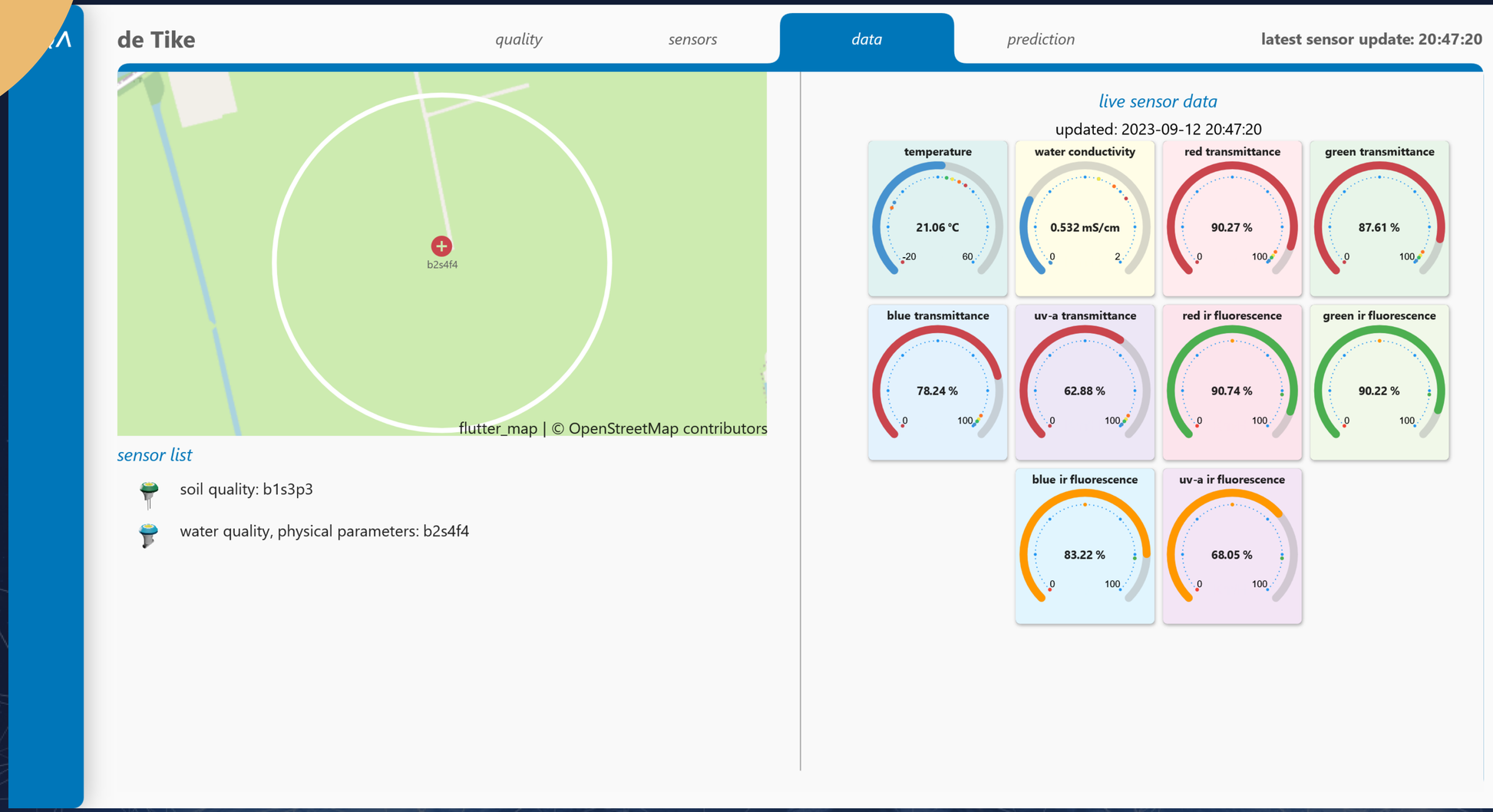
results

Tests at farmers in cooperation with KBF



results

Tests at farmers in cooperation with KBF



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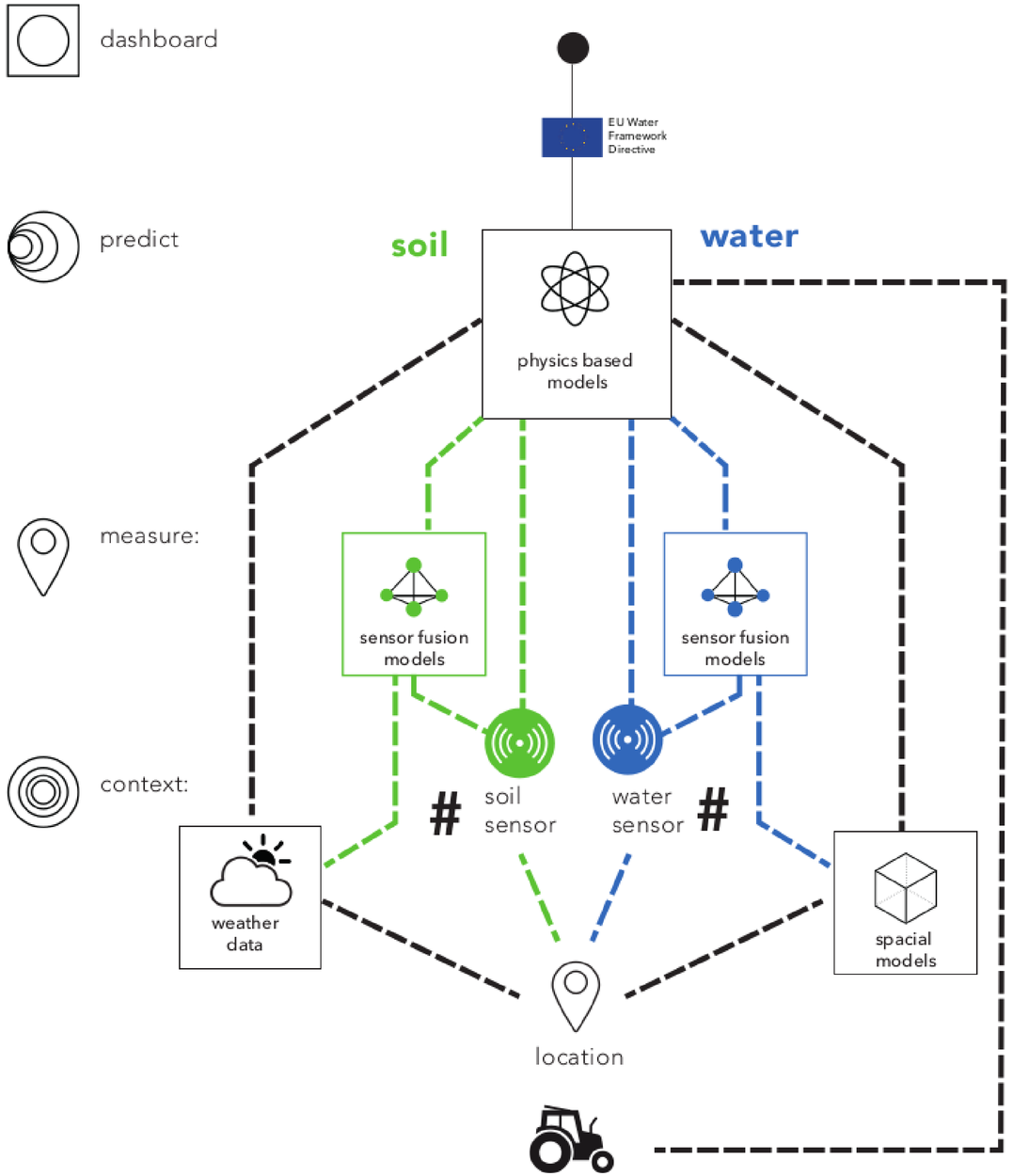
conclusion

Surface water & soil quality are interrelated

- Physics models, open data, affordable sensors and sensor data fusion will help us predict and improve surface water and soil quality, especially for small water bodies.
- Predicting surface water quality requires the monitoring of soil quality.
- Improving soil quality will result in better surface water quality and drought resilience.

back
up



Model framework

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