USE CASE 1.1: WITHIN FIELD MANAGEMENT ZONING (POTATO)

• Diessie Donkerson sandy soil (Reusel) and clay soil (Abbenes)

- Arable Trail • 4 101 demonstrators (wireless transmission of data,
 - ZLyTed prediction and mapping, actuation in management zones, quality in storage)

The new patients and the first the prover the show

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Potato production and storage cycle















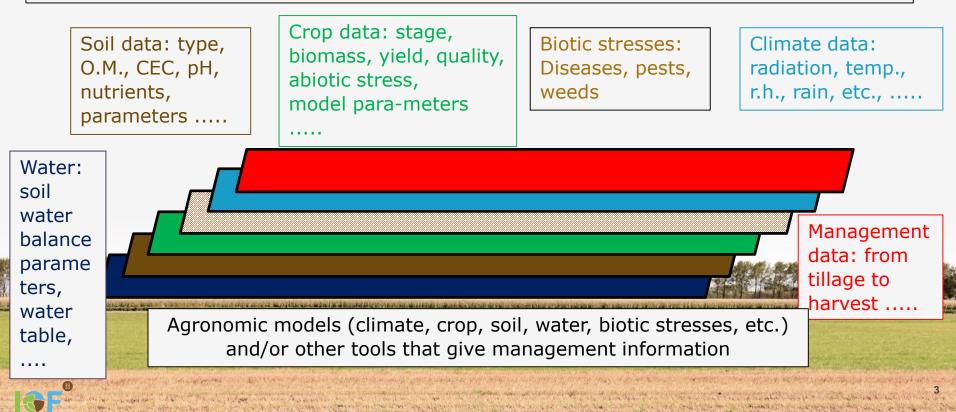






Our vision and approach in the use case

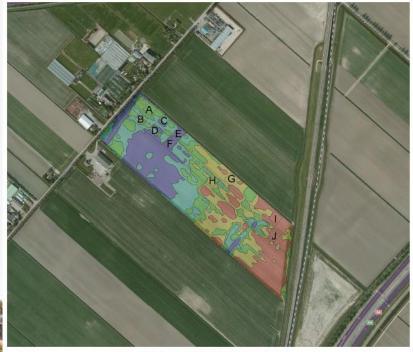
Integration of sensors, **data**, platforms, interfaces, models, tools ,equipment



AND THE REAL PROPERTY. The Cycle, growth and data DO ACT Interpret Decide Act Sense CHECK WINTER SPRING SUMMER 6 2 3 5 1 4 7 Mapping fields Soilscan Organic fertilizer Soil cultivation Calculate tramlines Crop protection A MARKEN METRIC AUTUMN SUMMER 14 12 11 10 13 9 8 A SALE ALL & BURGE Variable fertilizing **UAV** sensing Storage Harvesting Crop measuring Crop sensing Irrigation

Taskmaps

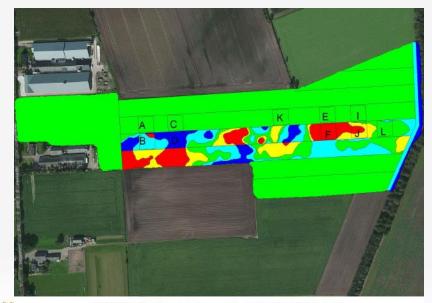
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Bayer - 2017 Aardappelen Treatmentzone

Client: < Unassigned Client > Field: Bayer Crop: 2017 Aardappelen Name: plots





Van Gompel herdersdreef - 2017 Aardappelen VRA planting dictance

Client: Van den Borne Aardappelen Farm: Van Gompel Field: Van Gompel herdersdreef Crop: 2017 Aardappelen Name: VRA planting dictance Min: 310 cm Max: 390 cm Avg: 351 cm

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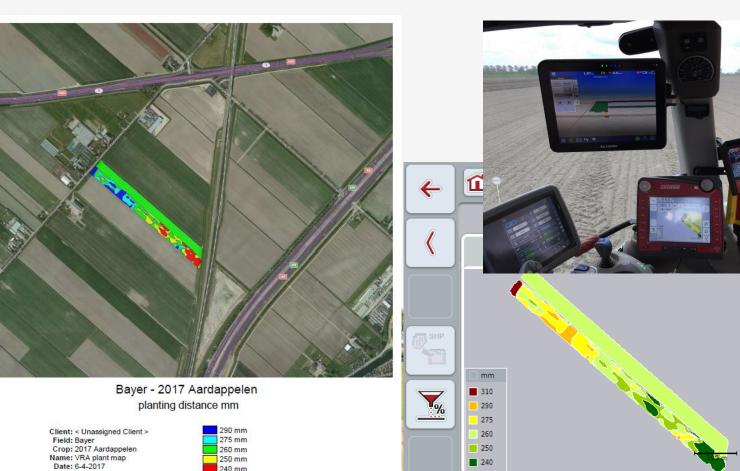
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UC1.1, task map VRA planting potato (test 2017, Abbenes)

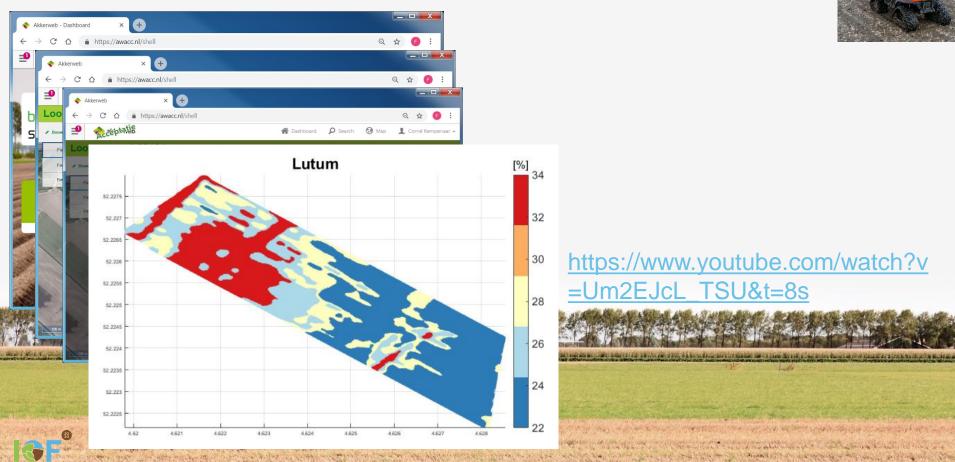
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App for ordering of soil maps (autumn 2018)



Current situation

- Variable rate planting:
 - For sandy soil
 - Shade zones: less plants per meter
 - Spray path: more plants per meter
 - Lutum content: more plants heavier clay soil
- available for Grimme, AVR and DeWulf
- Not standardised

Current situation



Steps/Phases in project

- To develop the current components into a robust webservice so it can run in 2020, plus validation
- To connect the webservice to participating user and machine platforms, plus validation in 2020
- Adoption: large scale implementation, monitoring and communication

Phase 1

- To develop the current components into a robust webservice so it can run in 2020, plus validation
- Product is the webservice prototype
 - Work mainly by WUR
 - Interaction with Grimme, AVR and DeWulf, Akkerweb and/or other user platform
 - Delivery end of 2019 or January 2020

Phase 2

- To connect the webservice to participating user and machine platforms, plus validation in 2020
- Product is prototype Multi-vendor VRA application
 - Work by WUR, Grimme, AVR, DeWulf, user platforms
 - Cost estimate to be made after the meeting (ca. 40 Keuro all parties, not (yet) included in the IoF budget)
 - Decision on how to share the costs
 - Delivery end of 2019 or January 2020

Phase 3

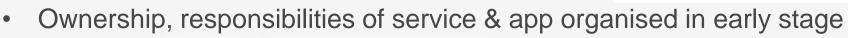
- Adoption: large scale implementation, monitoring and communication
 - Where
 - When (2021-2024)
 - How
 - What to monitor



Cooperation and implementation agreement

Warm Cooperation

- Starting from a will/ambition to make step further
- Participants meet and build personal relations
 Cool Organisation



Sharing of costs and budget to be organised in project setting

