

PRECISION FARMING

USE OF DRONES AND SATELLITE IMAGERY
- IN PRACTICE

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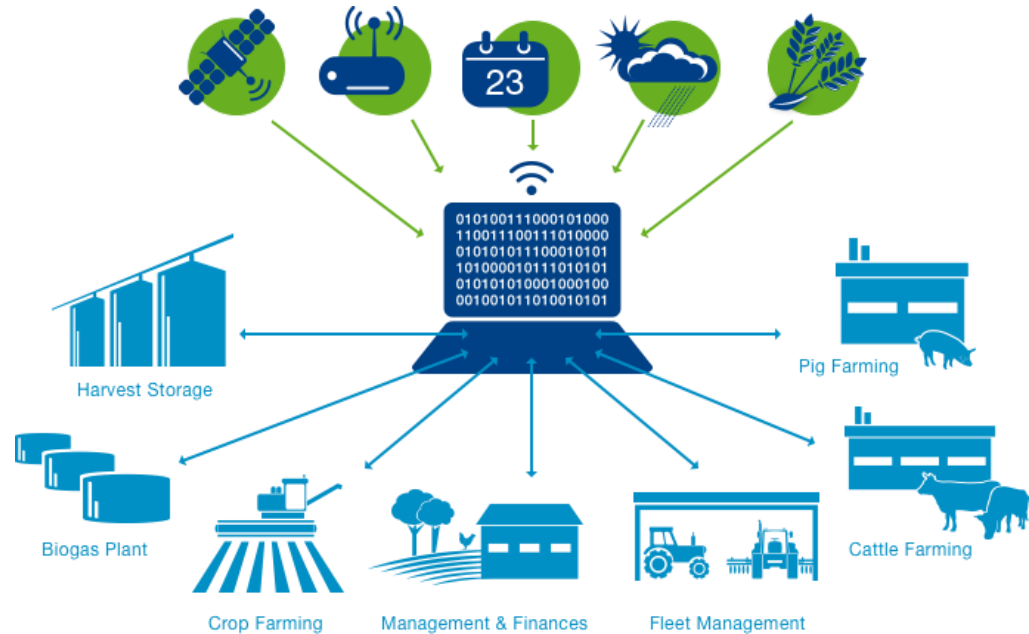
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What is precision farming?



Source: Digital Farming - Bayer - Crop Science

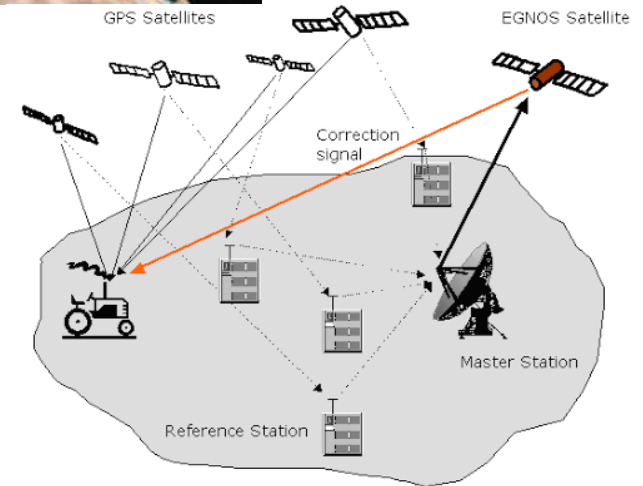
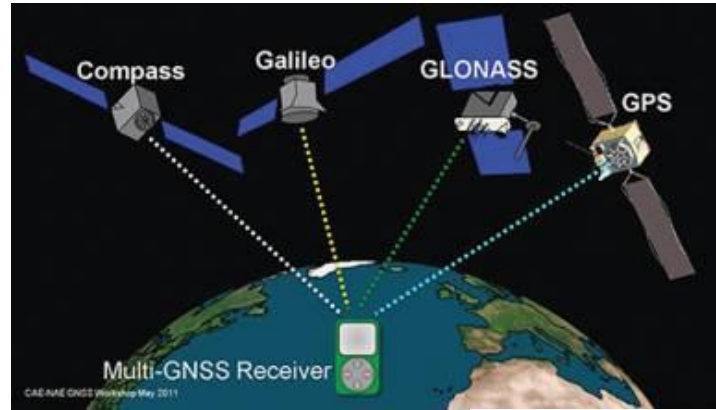
Smart machinery



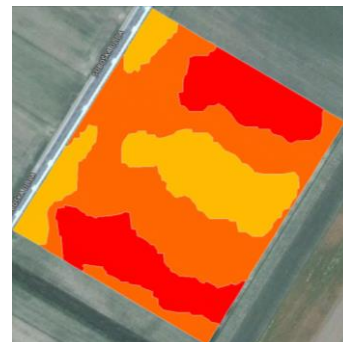
Smart machinery



GNSS positioning systems

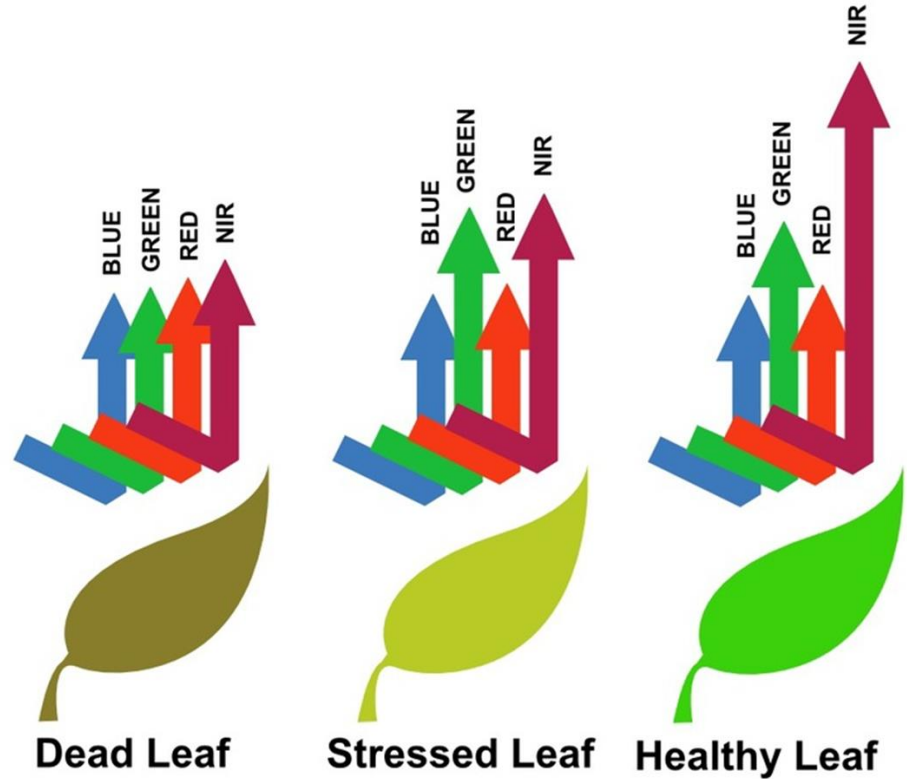


***Smart
machinery?***



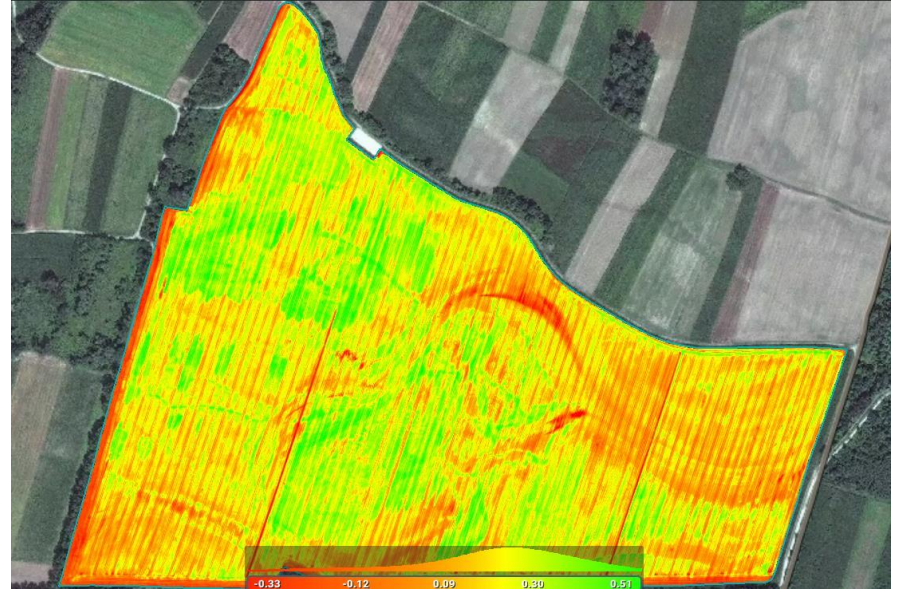
In practice

- Plant stress monitoring



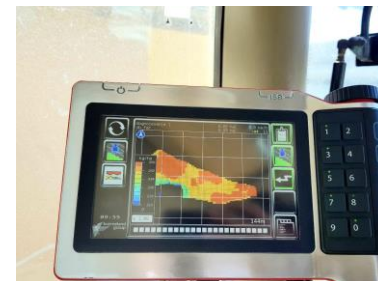
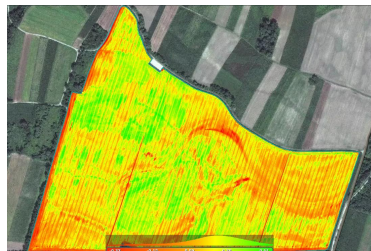
In practice

- Earth observation technologies for crop monitoring



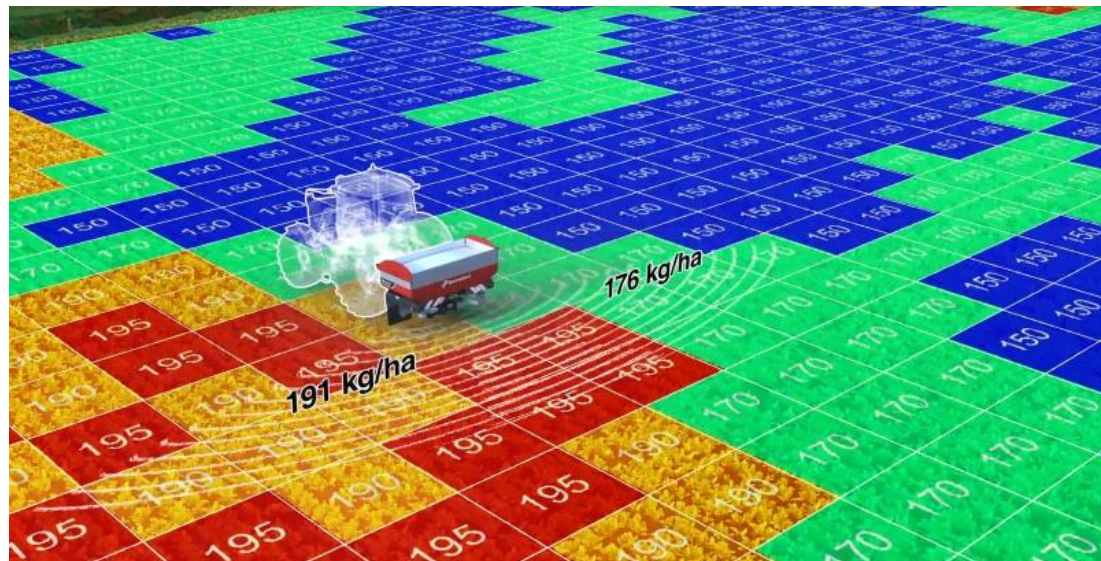
In practice

- Target application



In practice

- Target application



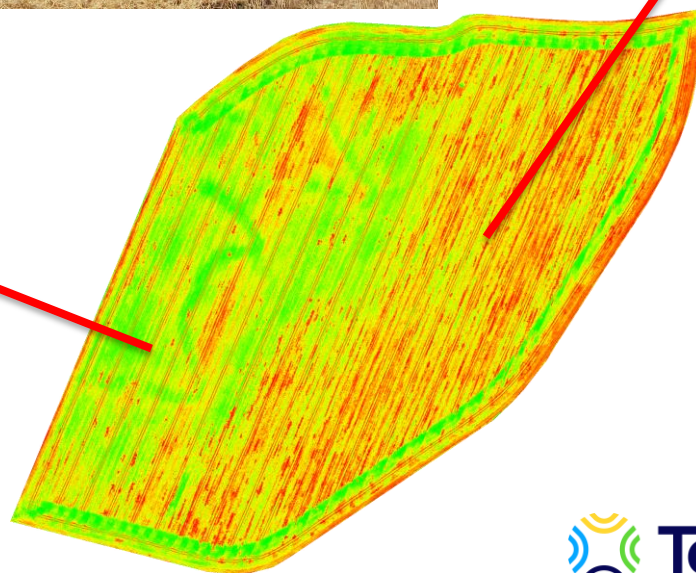
In practice

- Harvest time



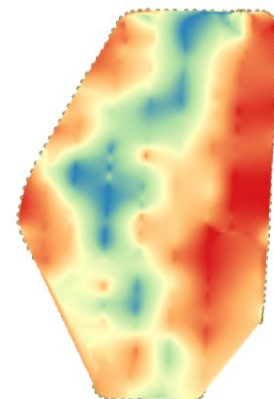
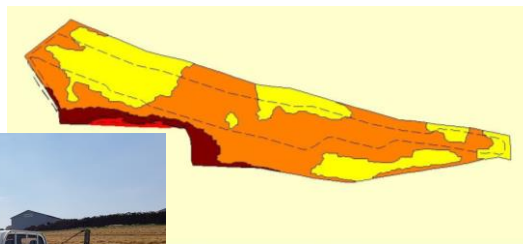
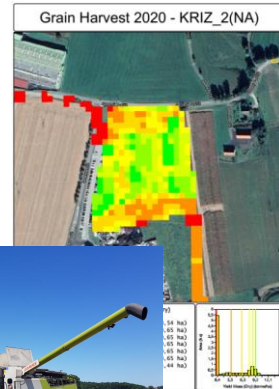
AgriCheck - BRUNNEN INSTRUMENTS © 1992-2018 (pv2020.auf)	
Product:	Wheat
Samplename:	223
Protein	11.2 %
Moisture	13.4 %
Gluten	30 %
Zeleny	26 ml
HL-Weight	77.5 kg...
Measure Empty Functions	

AgriCheck - BRUNNEN INSTRUMENTS © 1992-2018 (pv2020.auf)	
Product:	Wheat
Samplename:	224
Protein	10.7 %
Moisture	13.3 %
Gluten	29 %
Zeleny	23 ml
HL-Weight	-49.0 kg...
Measure Empty Functions	



In practice

- Precise measurements





SkyScan

Satellites and drones (optical and radar data)



WeatherScan

Weather data



SoilScan

Soil passport data, yield maps, soil structure



Economic calculations

Yield potential

Smart crop rotations



FarmScan

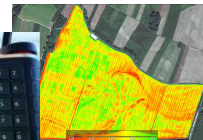
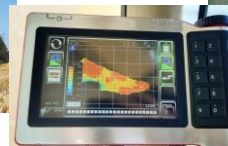
Transition to sustainable farming

Monitoring and notifications for pests and diseases

Target local treatments with chemicals

Field data from machinery

Integration to existing machinery



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Thank you

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