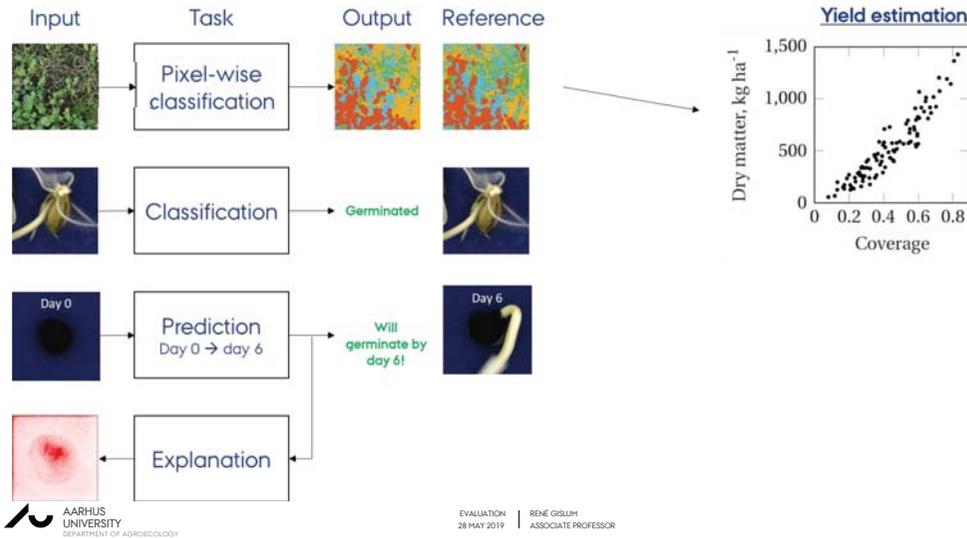
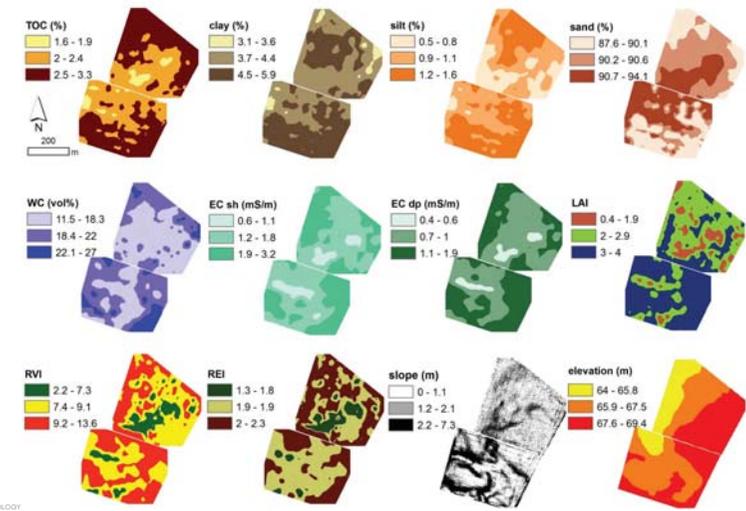


DEEP CONVOLUTION NEURAL NETWORKS



SENSOR FUSION AND DATA MINING



FUTURE PERSPECTIVES

Close collaboration with the Department of Engineering e.g. Future Cropping

Newly started projects on:

- Detection of diseases in cereals, onions and potatoes using robots
- Prediction of nitrogen uptake in field crops based on satellites
- Use of satellite images for soil characteristics
- Use of sensor input in crop growth models
- Precise soil cultivation and seeding

The possibility to include calculation of climate and environmental effects from 'Digital Agriculture'

We already have a close collaboration with the Department of Engineering and know their qualifications within data storage and management.

TILLAGE AND SOWING

- Development of design-tool for tillage implements
- Development of sensor technology for seedbed quality evaluation
- Planning and scheduling tool to optimize tillage and traffic operations
- Improved basic knowledge on soil workability
- Develop sensor technology and control systems for spatio-temporal optimized tillage and crop establishment
- Impact of seedbed quality on pesticide leaching potential





AARHUS
UNIVERSITY