





Sustainable and innovative agriculture

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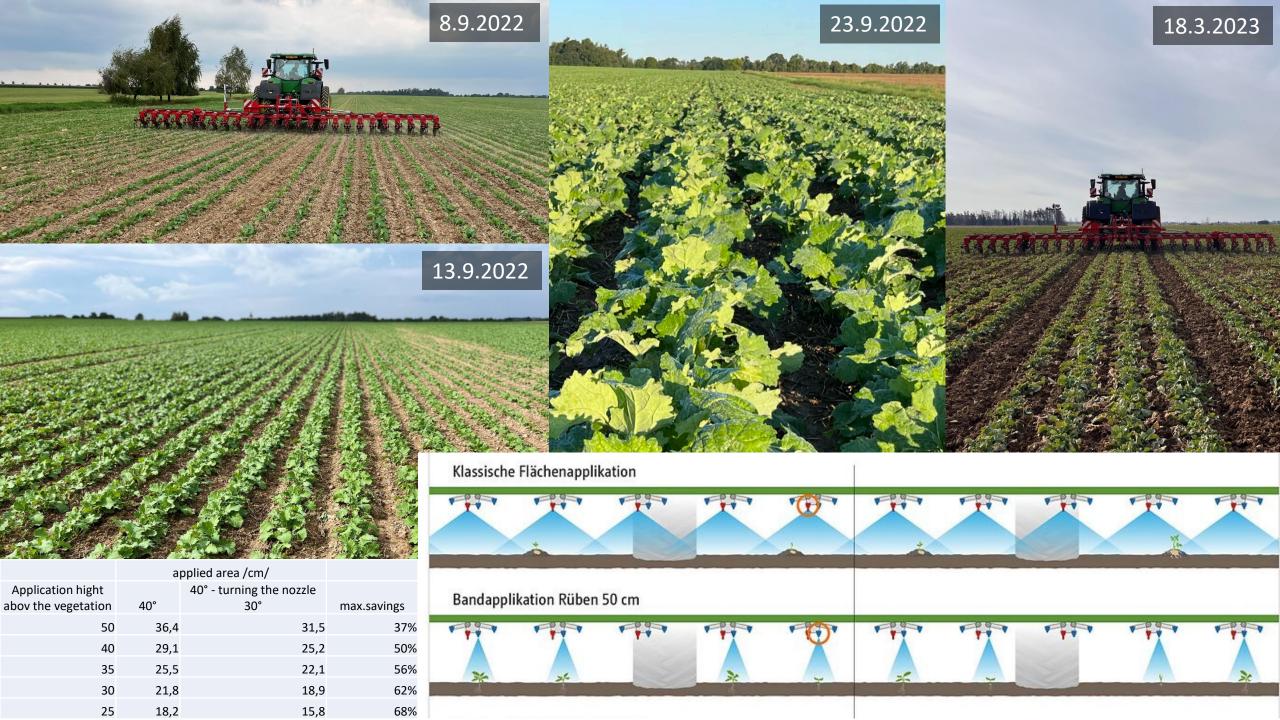


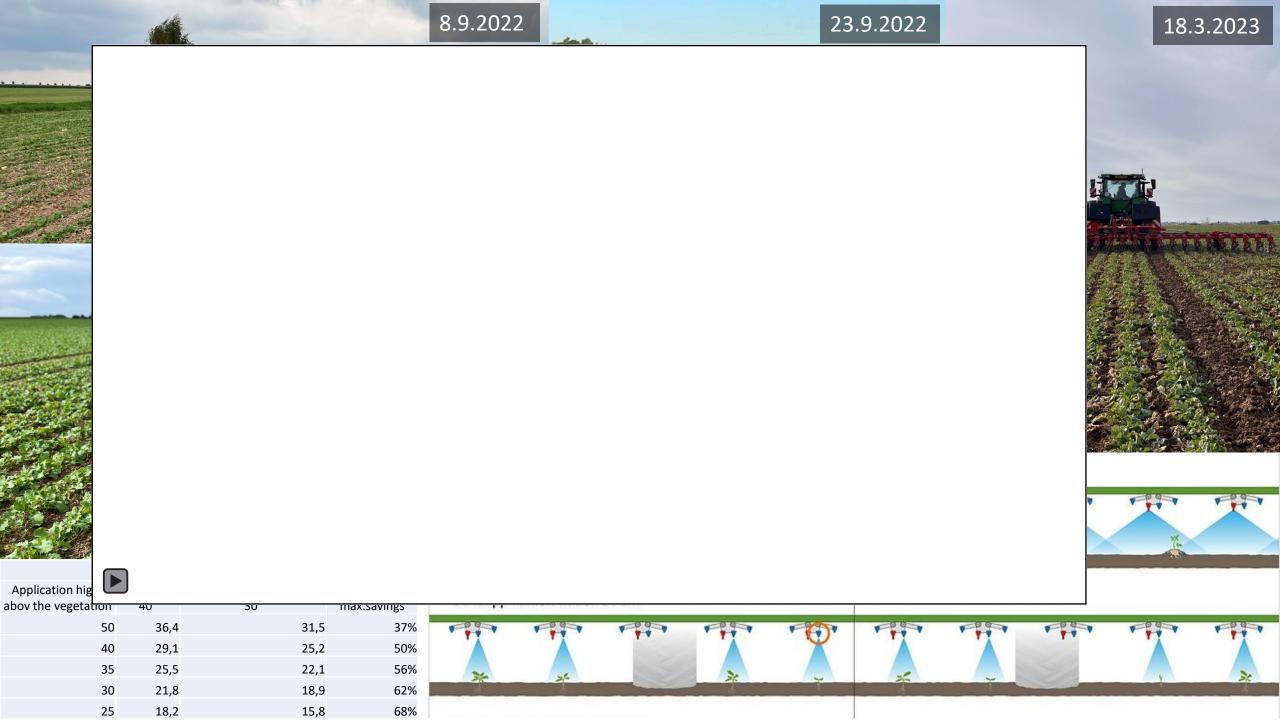


What is your project/initiative about?

- Band application raster 50 cm (raps, mais, sugar beet, poppy etc.)
 savings up to 68%
- Mechanical weed control inter-row, full area
- An individual approach to weed control zone application (section avg. 25% savings or local up to 95%) mainly for total herbicide or spring barely, winter wheat
- Companion cropping (crop diversity) poppy + oats, rape seed with freezing mixture or bean, Wheel rows sown with flowering plants (CTF)













Předpis aplikace

egend	goria		
	Rate [I/ha]	Area [ha]	Volume [I]
	150	3.68	553
Total prescription		3.68	553
Volume savings			85.24 %





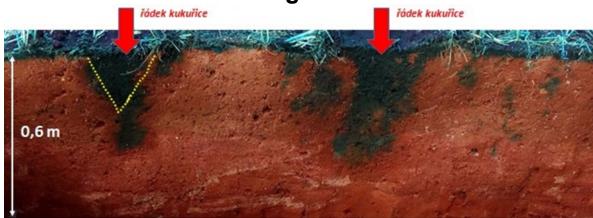




Companion cropping – crop diversity



Oil seed rape is sown together with the freezing mixture



1,8 m





Poppy seed with Oats
Wheat is sown with winter peas



Wheel rows with greening

Wheel rows sown with flowering plants (CTF)



Cílené ozelenění prostoru mezi kolejovými stopami postřikovače v porostech obilniny, kombinace výsevu méně vzrůstných a mělčeji kořenících (trávy a jeteloviny) a vzrůstných druhů (jednoleté kvetoucí dvouděložné druhy). První rok založení pro víceleté využití či jednoleté ozelenění.





Flowering plant in a track row in corn stands.



How do you contribute to a reduction of pesticide dependency in your work/project?







What are your experiences in the transition to sustainable arable cropping systems with reduced pesticide dependency? What challenges do you/did you face?

- > trials and verification of technologies together with research institutions (we are member of EIP Vysokomýtská synklinála)
- > show employees (stakeholders) that it makes sense
- Motivation new employee agriculture high-tech technologies
- > planning of machine renewal (high cost of replacing machines)
- > incompatible platforms between agricultural machinery manufacturers





What are the most important steps, from your perspective, towards pesticide independency?

- > follow new trends in agriculture all the time
- positive approach towards new technologies
- With high tech you can find motivated young employees they can work with new machines
- Band and zone application
- Dron filed monitoring creating prescription, filed surveying
- Using bacteria's Pseudomonas, Trichoderma etc.





Can you indicate which pillar(s) of the ICM is included in your example?

- Crop diversity
- Robust varieties
- Soil Management
- Targeted Control
- Monitoring & Evaluation

With that new approaches we are able to fulfill all the five pillars of ICM





EU CAP Network workshop 'Innovative arable crop protection - using pesticides sustainably'

19-21 April 2023 Amsterdam, The Netherlands

All information on the workshop is available on the event webpage:

https://eu-cap-network.ec.europa.eu/events/eu-cap-network-workshop-innovative-arable-crop-protection-using-pesticides-sustainably_en

