

# Stribedyrkning

*Hvad er stribedyrkning?*

*Hvad er værdien af "kanter" i agerlandskabet?*

*Har dyrkningsformen sin gang på jorden?*

Session 56 torsdag 11. januar 2024

Sven Hermansen, ICOEL



STØTTET AF  
Fonden for **økologisk landbrug**

Promilleafgiftsfonden for landbrug



# Crop diversification through intercropping

“Intercropping is the practice of growing two or more crops in the same field for a significant part of their growing period.”

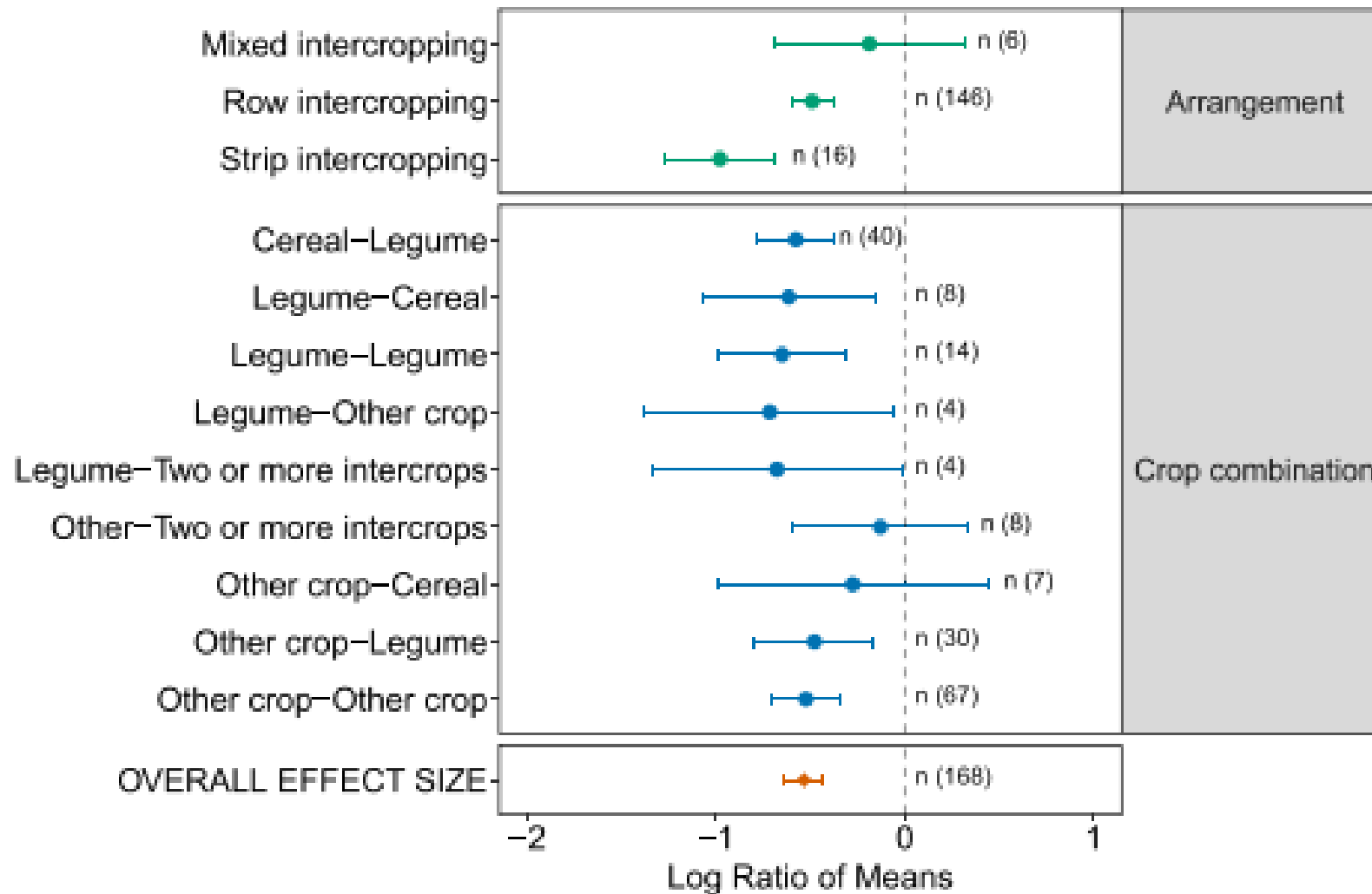
Disease incidence reduced from **35%** in monostand to **21%** in intercropping, according to our ongoing meta-analysis



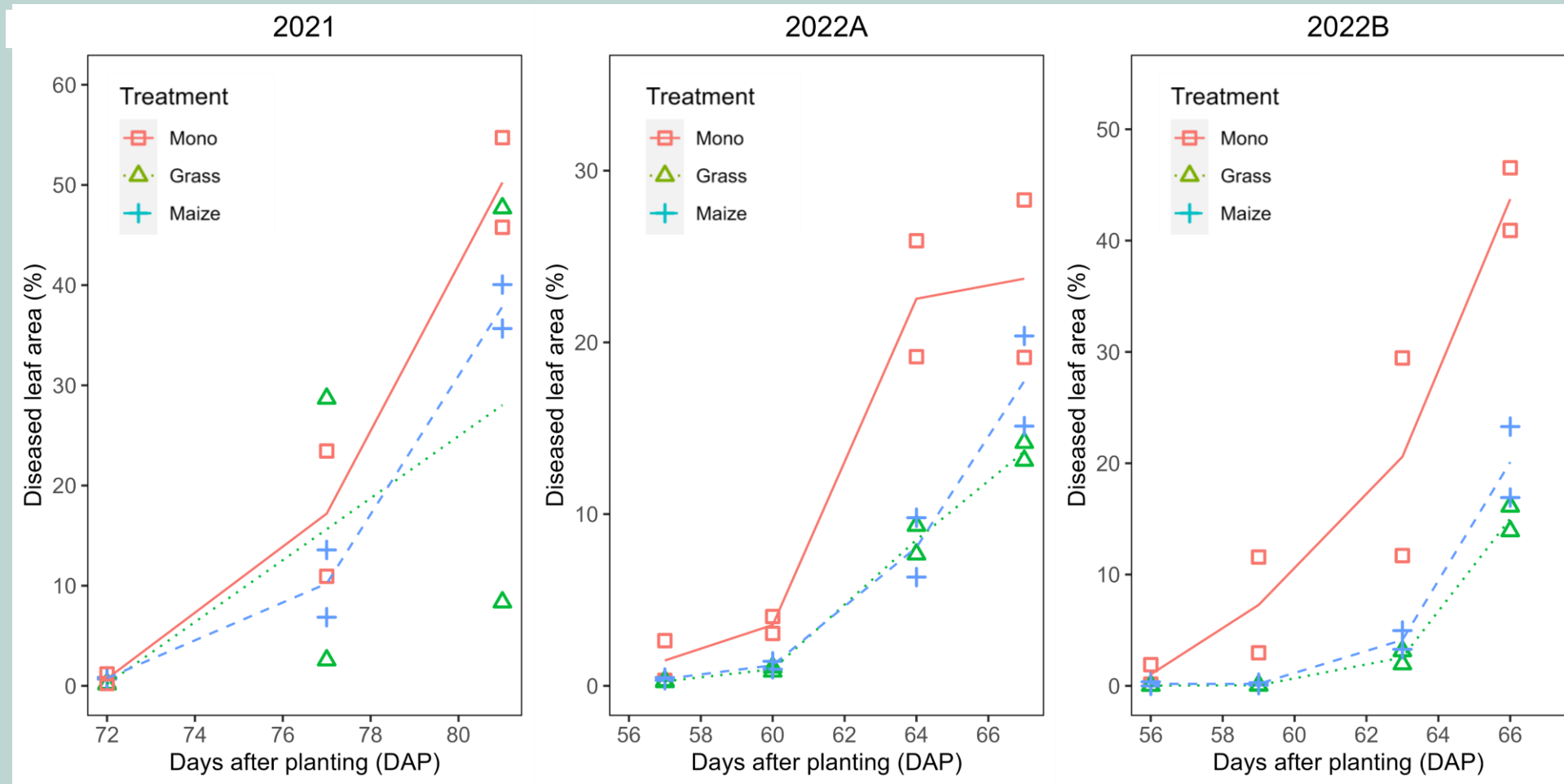
Zohralyn Homulle, Niels Anten, Tjeerd Jan Stomph, Wopke van der Werf, Bob Douma

EAPR Pathology and Pests Section Meeting, September 2023

### Pest density (b)



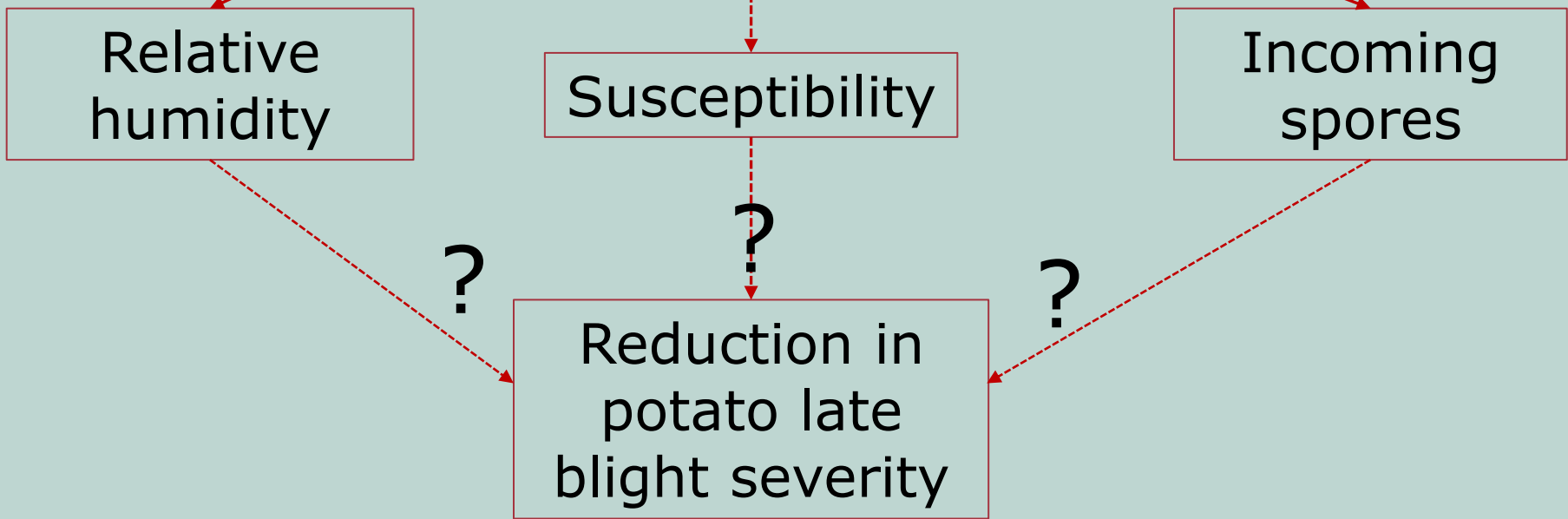
# Strip cropping consistently reduced late blight severity over two years and locations



Zohralyn Homulle, Niels Anten, Tjeerd Jan Stomph, Wopke van der Werf, Bob Douma

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# Strip cropping

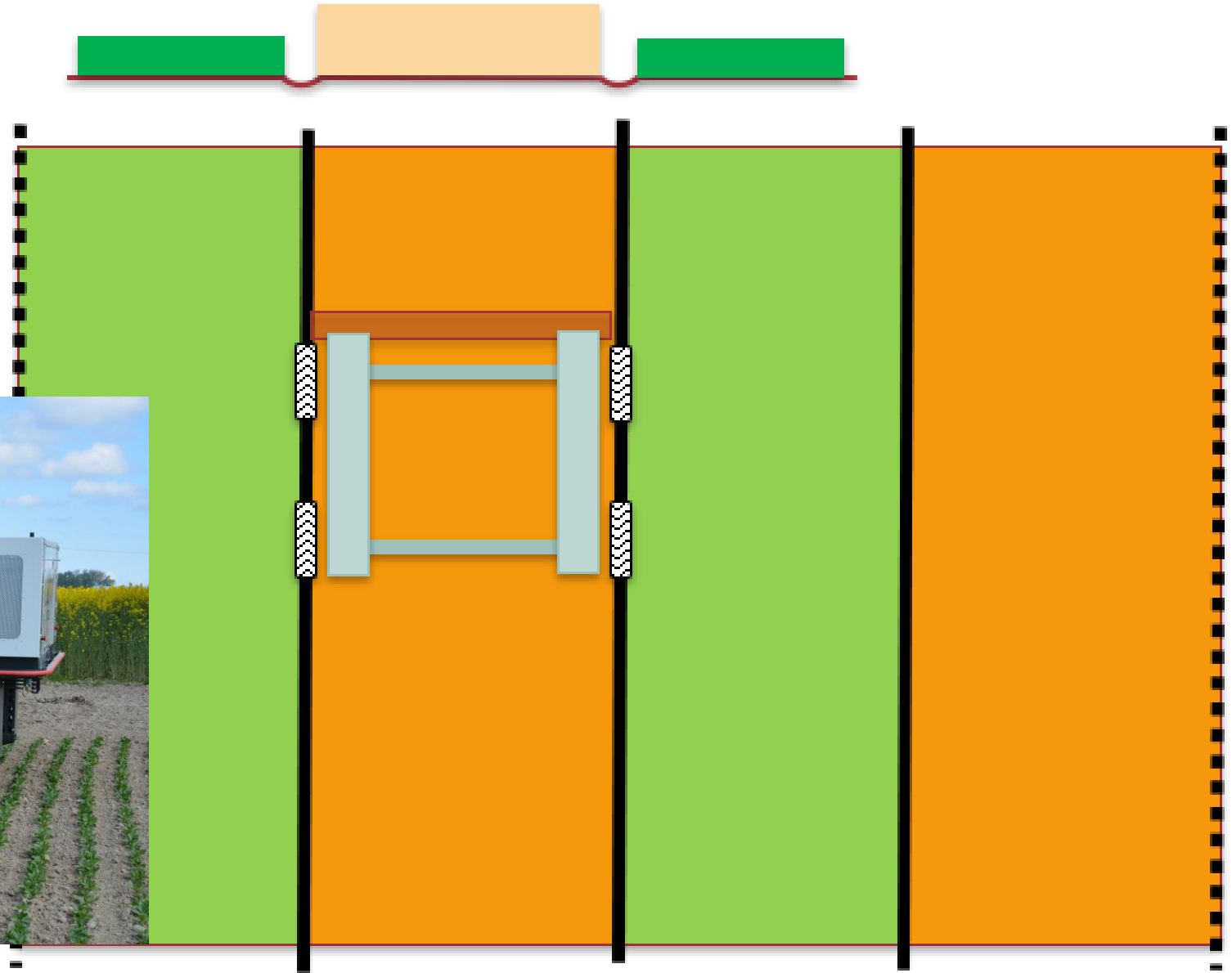


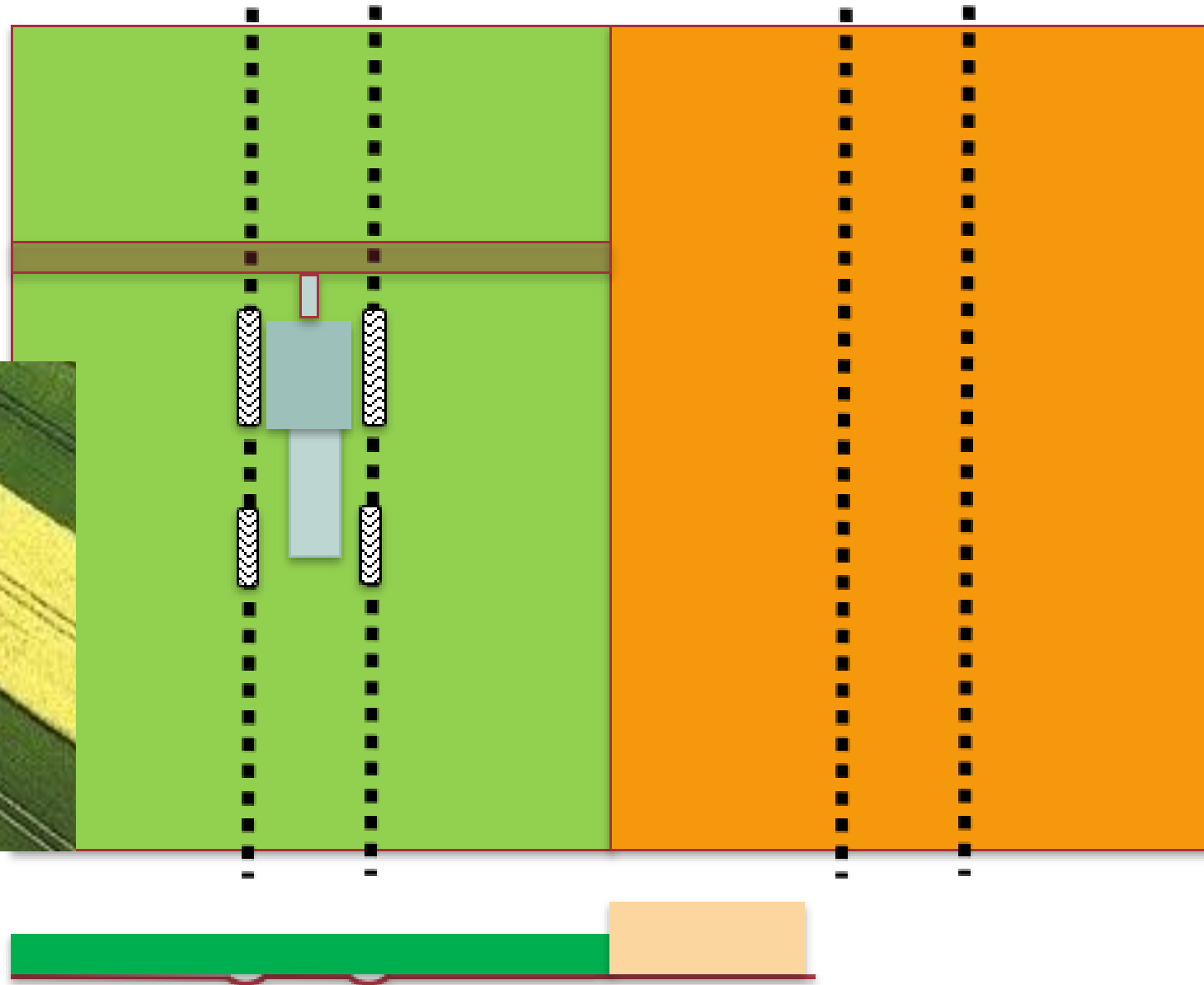






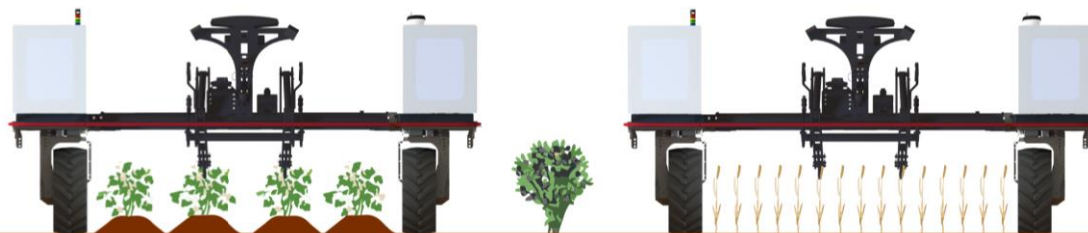








Inez Johansson & Ole Green  
@ BenFarm



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## Perspektiver:

- Erfaringerne med sribedyrkning er positive, og vores foreløbige resultater viser, at man opnår en bedre regulering af bladlus i 3 m striber end i 6 m striber.
- Det skal understreges, at sammenlignet med monokultur, så er der allerede fordele ved 6 m og 12 m striber, så meget kan gøres - også med almindelige redskaber.



Lene Sigsgaard, Københavns Universitet, PLEN og Norges Miljø- og Biovidenskabelige Universitet (NMBU), BIOVIT og Stine Kramer Jacobsen, Københavns Universitet, PLEN 2023: Sribedyrkning – effekter på bladlus og deres naturlige fjender

**Table 2**

Crop succession matrix comprising the thirteen candidate crops. The symbols 0 and X indicate allowed and disallowed successions, respectively, for the case study. The first seven crops in the column (preceding) or row (following) header represent the current crops.

Preceding Following	Grass-clover	Parsnip	Pumpkin	Wheat	Potato	Bean	Cabbage	Chicory	Celeriac	Onion	Pea	Winter spelt	Sugar beet
Grass-clover	X <sub>1</sub>	0	0	0	0	X <sub>4</sub>	0	0	0	0	X <sub>4</sub>	0	0
Parsnip	0	X <sub>1</sub>	0	0	X <sub>2,3</sub>	X <sub>2</sub>	0	X <sub>2</sub>	0	X <sub>2</sub>	0	0	X <sub>2</sub>
Pumpkin	0	0	X <sub>1</sub>	0	0	X <sub>5</sub>	0	X <sub>2</sub>	X <sub>3</sub>	0	0	0	0
Wheat	0	0	0	X <sub>1</sub>	0	0	0	0	0	0	0	X <sub>3</sub>	0
Potato	0	0	0	0	X <sub>1</sub>	0	0	0	0	0	0	0	X <sub>4</sub>
Bean	X <sub>4</sub>	X <sub>2</sub>	0	0	0	X <sub>1</sub>	0	X <sub>3</sub>	X <sub>3</sub>	0	X <sub>2,3,4</sub>	0	X <sub>2,4</sub>
Cabbage	0	X <sub>2,4</sub>	0	0	X <sub>2,4</sub>	0	X <sub>1</sub>	0	X <sub>3,4</sub>	0	X <sub>2,3,4</sub>	0	X <sub>2</sub>
Chicory	0	0	0	0	X <sub>4</sub>	0	0	X <sub>1</sub>	0	0	0	0	X <sub>2,4</sub>
Celeriac	X <sub>3</sub>	0	0	0	0	0	X <sub>3,4</sub>	0	X <sub>1</sub>	X <sub>2</sub>	0	0	X <sub>4</sub>
Onion	X <sub>3</sub>	0	0	0	X <sub>2</sub>	0	X <sub>4</sub>	0	0	X <sub>1</sub>	X <sub>2,3</sub>	0	X <sub>4</sub>
Pea	X <sub>4</sub>	0	0	0	0	X <sub>2,3,4</sub>	0	X <sub>2</sub>	0	0	X <sub>1</sub>	0	0
Winter spelt	X <sub>3,4,5</sub>	0	X <sub>5</sub>	X <sub>3</sub>	0	0	0	0	0	0	0	X <sub>1</sub>	0
Sugar beet	0	X <sub>2</sub>	0	X <sub>5</sub>	X <sub>4</sub>	X <sub>3</sub>	0	0	0	0	0	0	X <sub>1</sub>

0 = the succession is allowed; X<sub>1</sub> = not allowed because of same species; X<sub>2</sub> = not allowed because of plant-parasitic nematodes; X<sub>3</sub> = not allowed because of shared pest, disease and weeds; X<sub>4</sub> = not allowed because of inefficient resource use or intensive soil use; X<sub>5</sub> = not allowed because period between successive crops is considered too short or long.

# University of Göttingen

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- vinterhvede og vinterraps i 12 og 36 meter striber
- a total of more than 50 percent more insect species were found in the streak field than in rapeseed or wheat monoculture
- three times as many wild bees
- twice as many birds





## Bioordning i Holland

Reducerer pesticidforbrug

Øger biodiversitet

Forbedrer landskabsværdi

Elementer af agro forrestry

Kombineres med andre ordninger

217 EUR/ha

# Planlægning af sribedyrkning af landbrugsafgrøder



- Hensyn til afgrødernes naboeffekt i tid og rum
  - Spildkartofler
- Redskaber og maskiners arbejdsbredde
  - 9 meter:
  - Gyllenedfælder
  - 12 rk. kartofler
  - 30' mejetærsker
- Jordbearbejdning
  - Pløjning
  - Stenstrenglægning
- Logistik mht. gødskning, vanding og høst
  - Vandingsspor i 3 meter blomsterstribe
  - Kartofflerne er de sidste der høstes