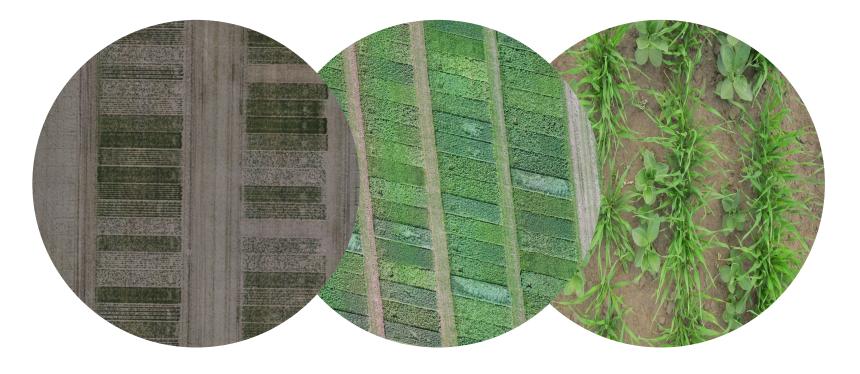
## Quantifying the mechanisms of weed suppression in cereal-legume intercrops

23 September 2025

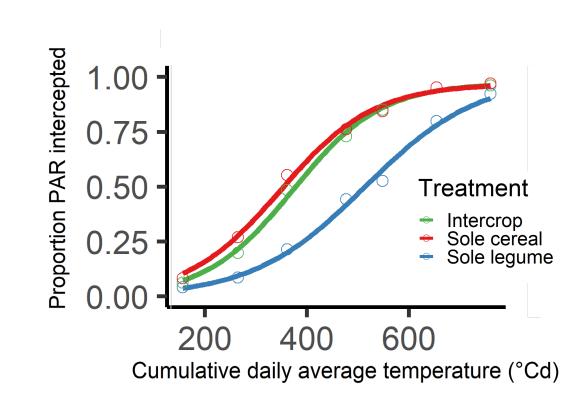
David Kottelenberg





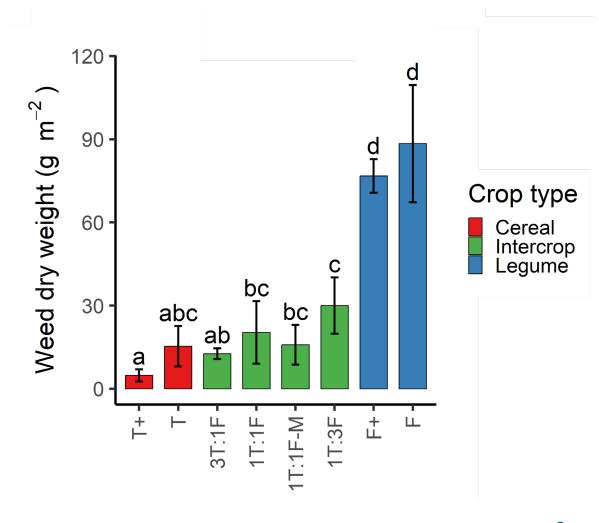


- Cereals are dominant over legumes in light capture
- 50/50 intercrop light capture very similar to sole crop cereal



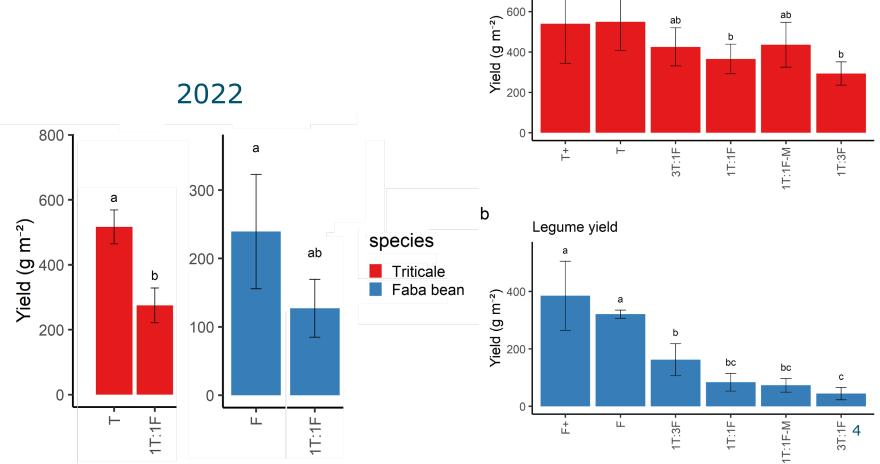


- Weed suppression aligns more with strong competitor
- Even with 25% cereal, weed suppression similar to sole crop





High weed suppression -> suppression of the weak competitor?



2023

Cereal yield

800 -



- More balanced competition through system design
- More balanced competition in weed-infested systems (W) compared to herbicide-treated systems (H)
- How can we optimally design intercrops for high yield and reduced reliance on herbicides?
- What technology is needed to support such systems?



