

When the best of technology meets the best of ecology a little bit of magic happens

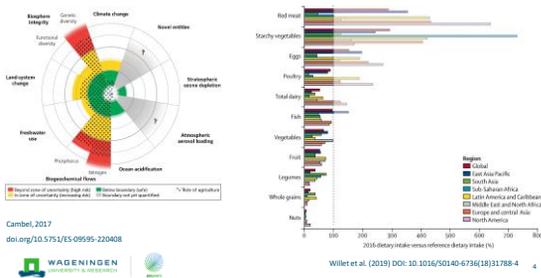
Dirk van Apeldoorn contact:Dirk.vanapeldoorn@wur.nl
 Farming Systems Ecology group en Open Teelten



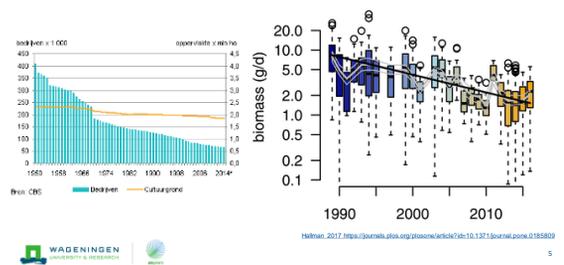
Succesvol in het oplossen van het vorige probleem



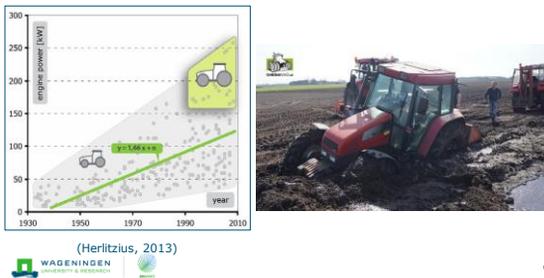
De huidige landbouw maakt ons én de planeet kapot



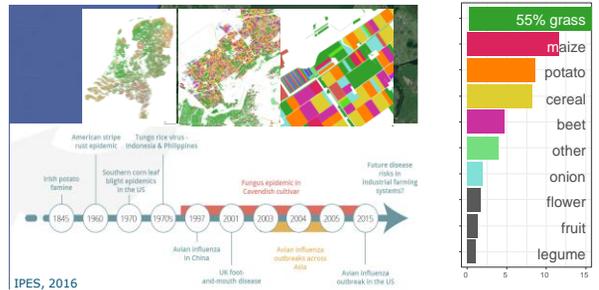
Het grote uitsterven



Zitten we technisch op een kantelpunt?



Zitten we landbouwkundig op een kantelpunt?

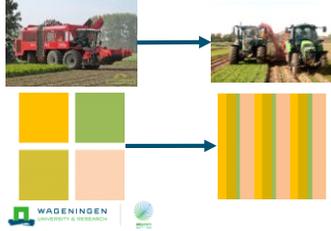




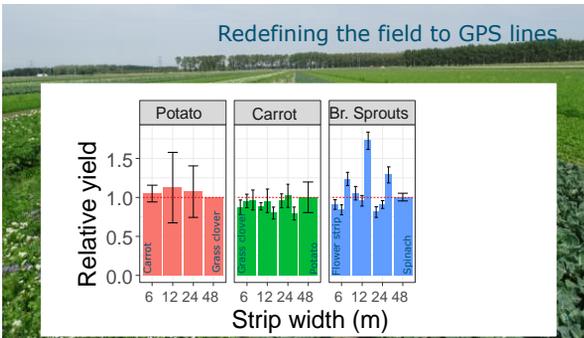
Strokkenteelt, intensive diverse akkerbouw

I. Een nieuwe rol voor techniek

■ Techniek als supporter of facilitator:

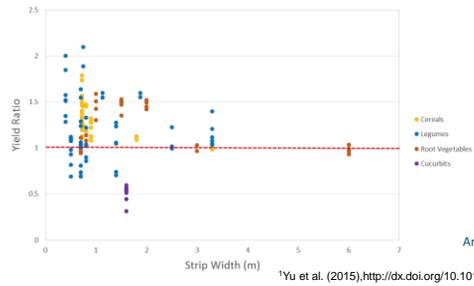


9



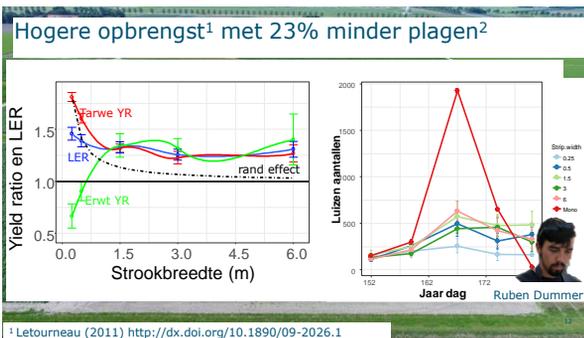
Redefining the field to GPS lines

25% hogere opbrengst met strokkenteelt¹



Armand Beaupere

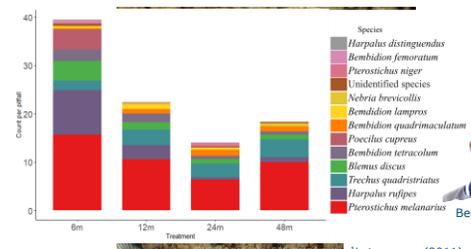
¹Yu et al. (2015).<http://dx.doi.org/10.1016/j.fcr.2015.09.010>



Ruben Dummer

¹Letourneau (2011) <http://dx.doi.org/10.1890/09-2026.1>

+44 % increase in natural enemy abundance¹

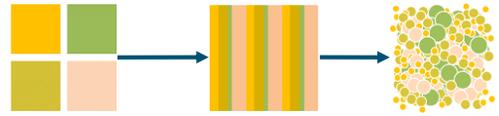


Bernard Osei

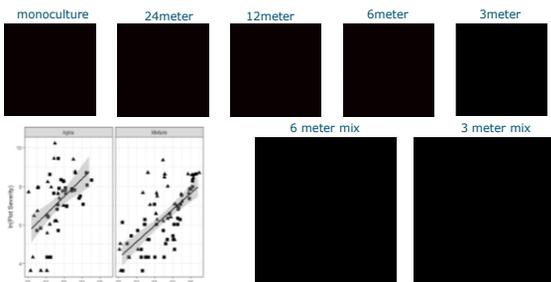
¹Letourneau (2011) <http://dx.doi.org/10.1890/09-2026.1>



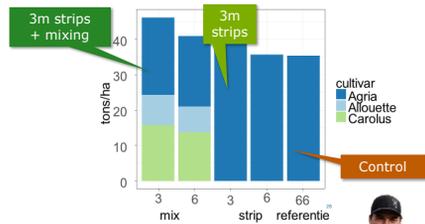
Extremere vormen van intercropping



Why mixed cropping?

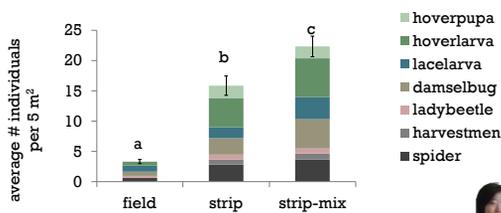


Extreme mixing...



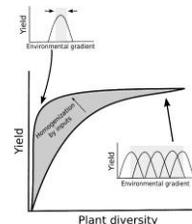
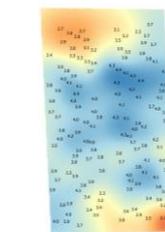
Ken van Driesten

Extreme mixing...



Shuang Xie

Ecologisch intensief: slim gebruik van diversiteit



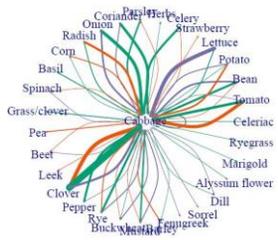
Exploring synergies and trade-offs between crops



Annett Westhoek



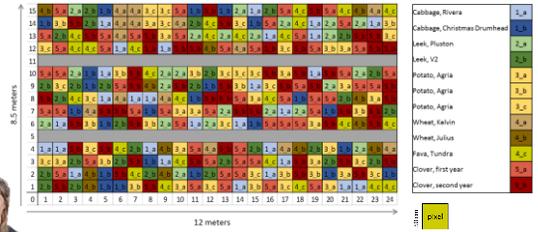
- Good
- Bad
- Neutral



From strip cropping to pixel cropping?



Lenora Ditzler



Diversity = productivity + ES = more labour

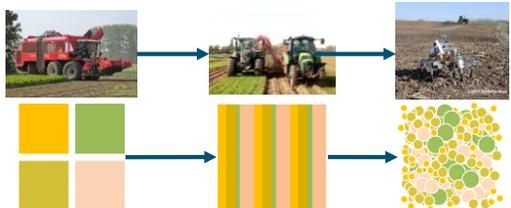


landbouw en techniek op een kantelpunt?

Common ground yet far apart, or not?

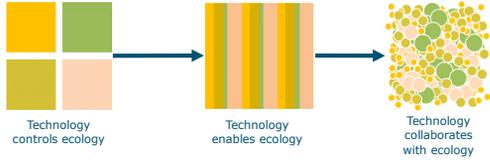


II. Een nieuwe rol voor techniek

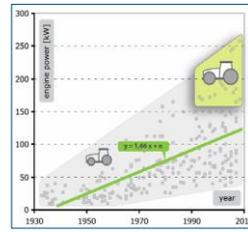


Monoculture, intercropping, pixel farming

Role of technology:



A revolutionary change in technology



(Heritzius, 2013)

