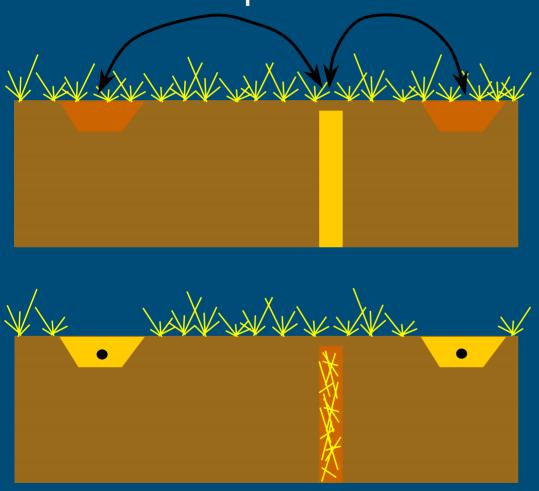
## CTF weed management perspectives

- Reduce herbicide reliance and weed resistance
- Combine soil conservation with non-chemical tactics
- Flexible rotations and mixed cropping on strips
- Improve timeliness and quality of mechanical and thermal control and cultural practices
- Precise small-scale soil, crop & residue manipulation
- Enhanced diversity and manageability of natural processes (e.g. habitat for weed seed predators)
- → Structured field designs increase flexibility + options

## Some examples

- Band application of herbicides
  - Non-selective herbicides between crop rows: GM crops not needed
  - Residual herbicide bands + shifting rows: less carryover
  - → Reduced use, low drift, more options, simplicity+flexibility
- Weed-suppressive inter-row cover crops
  - flexible sowing time, sowing in standing crops and residues
  - Rolling, undercutting, mowing+residues moved to rows
- In-row mechanical weeding on narrow crop strips
  - 12-24 m wide auto-steer cab-adjusted pull-type cultivators: €5/ha
- New strip tillage tools for minimum disturbance
  - Precise shallow cultivation without cutting through stubble
  - "Harvesting" seed-producing weeds
  - Strip ploughing or slot tillage: long-time burial of weed seeds

Some examples







## CTF: horticultural principles on arable scale?



## Essential "ingredients"

- Accessible, trafficable, level wheelways
- Precise automatic guidance
- Precise surface profile in crop zone, no rubbish
- Tools for small-scale manipulations / band application
- Match to local climate, soil, crops, weed, farm size...
- → Many things are needed for other purposes as well
- → Can largely be met with current technology (? or !)
- → Are these options utopian or realistic?
- → How to proceed?