

Integrated Crop Management (ICM)

The crop protection challenge in 2030

Reduce the overall use and risk of chemical pesticides by 50 % Reduce the use of more hazardous pesticides by 50 %

Transition to sustainability

Truly integrated pest, disease and weed control requires a redesign of the system

From single-season targeted control measures toward an integrated, multi-season, farm or regional approach



diversity in time 8

ICM

Cultiva

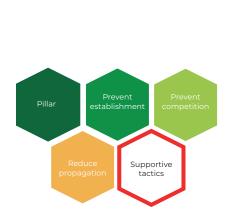
choice & cropping

ICM: a framework for redesigning crop protection

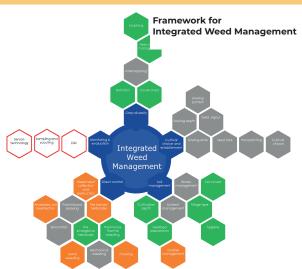
- 1. Crop diversity in time and space
- 2. Cultivar choice and cropping strategy
- 3. Soil management
- 4. Targeted control
- 5. Proper monitoring and evaluation

Approach

- Identify potential biological stressors
- Build frameworks for pests, fungal diseases, weeds and nematodes
- Design a crop system based on the IWeedM, IInsectM, INematodeM and IDiseaseM frameworks
- Test the ICM design in a farm context for ecosystem services such as economy, yield, pest, disease and weed control, biodiversity and environmental impact







Targeted





