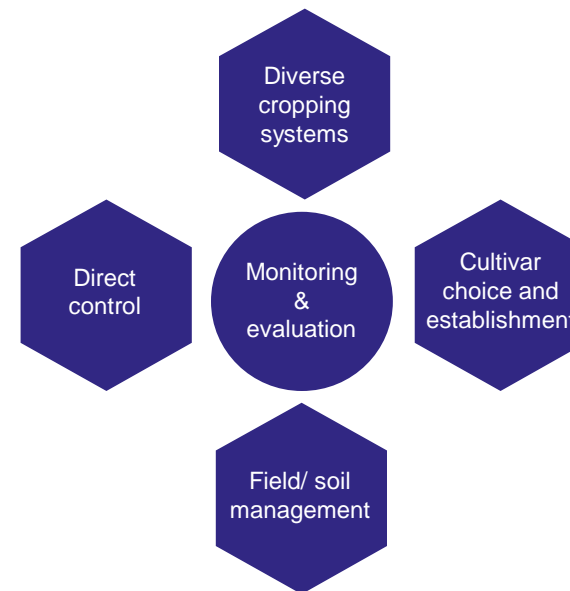


# IWMTOOL

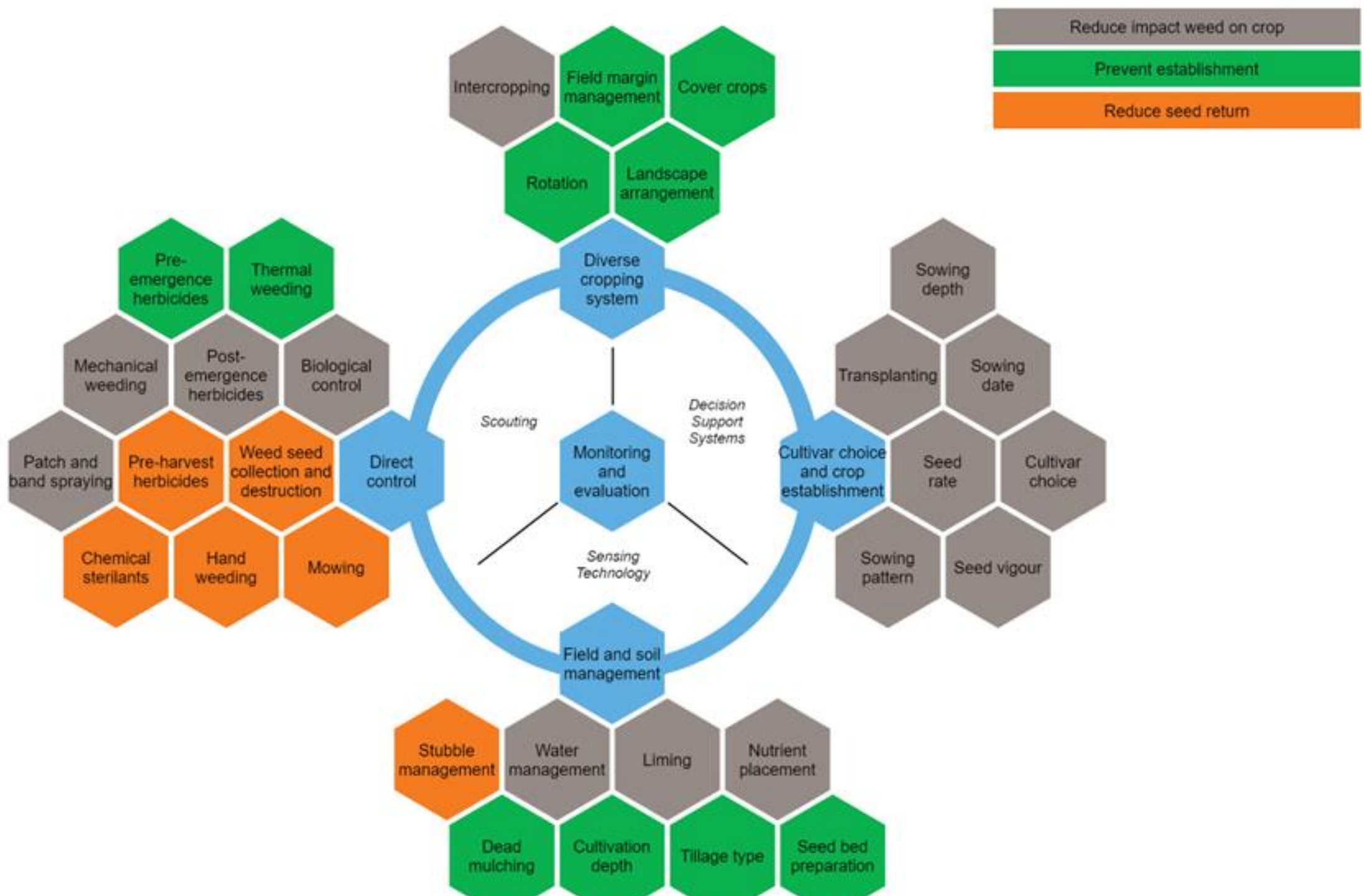
*Timo Sprangers, Marleen Riemens, Saskia Houben, WUR*



[Tools \(iwmpraise.eu\)](http://iwmpraise.eu)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 727321





IWM PRAISE

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The link below will take you to the IWM Tool developed by partner Wageningen University and Research under Work Package 1 of the IWM PRAISE project.

The IWM Tool is hosted on an external website. Therefore, the link will open this as a new tab in your browser.

Questions and comments regarding the IWM Tool should be sent to [Marleen Riemens](#)

[Go to the IWM Tool site](#)



Crop Group

Narrow row crops ▾

Weed Group

Annual weeds ▾



Reduce impact weed on crop

Prevent establishment

Reduce seed return

#### Diverse cropping system

- Rotation
- Cover crops
- Field margin management
- Landscape arrangement
- Intercropping

#### Cultivar choice and establishment

- Seed rate
- Transplanting
- Sowing date
- Cultivar choice
- Sowing depth
- Seed vigour
- Sowing pattern

#### Field and soil management

- Seed bed preparation
- Cultivation depth
- Tillage type
- Stubble management
- Dead mulching
- Water management
- Liming
- Nutrient placement

#### Direct control

- Pre- emergence herbicides
- Mechanical weeding
- Post- emergence herbicides
- Hand weeding
- Thermal weeding
- Pre-harvest herbicides
- Mowing
- Patch and band spraying



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Crop Group  
Perennial crops ▾

Weed Group  
Annual weeds ▾



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# Rotation

May | 2022



Factsheet about integrated weed management



## Introduction

*European crop rotations have become simplified, growing the most preferred crops more frequently with a high reliance on herbicides and reduced dependence on break crops that disturb the life cycle of weeds. Continuous production of the same crop and the repeated use of herbicides leads to resistance evolving of weeds and allows competitive weed species to proliferate. Designing a diverse crop rotation and/or specifically timing of the rotation can help to manage weeds, and prevent weed species*

weed community<sup>21</sup>. Different crops also provide opportunities to apply other weed management tools such as mechanical weeding. Actually, a diverse crop rotation brings in diversity in many aspects of farm management, including the herbicides used. The use of diverse herbicides decreases the risk of evolution of herbicide resistance.

## Costs

The costs for a more diverse crop rotation are similar to those of a rotation of a few crops as long as the additional crops does not require crop-specific machinery. Once a diverse rotation is designed, it only requires a more diverse management over the years, whether or not with specific machinery and inputs, depending on the chosen crops. If crop-specific machinery is not available



IWMPRAISE

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