



IWMPRAISE

NOVEMBER 2022

IWMPRAISE NEWSLETTER NO. 5

NEWS FROM THE COORDINATOR



IWMPRAISE has come to an end after 5½ years. Despite 2 years with the covid 19 pandemic we have managed to meet the goals that we set up back in 2017 with just a 6-month extension of the project. The last 12 months has primarily been focussed on analysing the many data and finalise the dissemination activities.

In addition to the analyses of the results of the individual trials, we have also been analysing the data across work packages to address some of the overall ultimate objectives of IWMPRAISE, which are to quantify the costs and benefits of implementing IWM strategies compared to 'Business as Usual'.

In June we organised a satellite meeting the day before the start of the 19th EWRS Symposium where we presented the outcomes of IWMPRAISE to the scientific community. The meeting was well-attended and in the following days several results were presented during the 19th EWRS Symposium. The presentations from the satellite and the EWRS Symposium are available on the IWMPRAISE [website](#).

Another highlight is the IWM Tool that is now available on the IWMPRAISE [website](#). The IWM tool can help advisors and farmers to design IWM strategies against annual and perennial weeds in both annual and perennial crops. Each of the coloured hexagons represents an IWM tool, the user will find useful information about how to make the best use of the IWM tool.

Besides the IWM tool, the website has also been populated with several new inspiration sheets and the final version of the annual booklet on experimental work. Another new addition to the website is the '[Tool sheets](#)'. You can read

about these and other new additions to the website in this last IWM PRAISE newsletter.

Finally, I want to thank all the IWM PRAISE participants for continuous engagement in the project. I think that we together have made a significant progress in generating the knowledge needed to implement IWM in practice but there are still a number of challenges that will need to be addressed in the future to implement IWM in all European cropping systems.

/Per Kudsk

A FEW WORDS FROM JENS ERIK JENSEN, LEADER OF THE IWM PRAISE DISSEMINATION WORK PACKAGE.



The IWM PRAISE project is ending on 30 November 2022. Since the fourth newsletter, much new material has been added to the public [website](#). That is the main reason that we have waited a bit longer to publish this newsletter, so we could give readers a taste of the various types of material available.

Below we give an appetizer for some interesting new additions to the website since the fourth newsletter was published in June 2022. We will not go through all contents in detail here, but we invite everyone interested in integrated weed management (IWM) to explore the contents of the website.

Despite the fact that the project ends, the materials developed in the project will still be available, and the main public website as well as the local websites associated with the project will be kept up and running until end of November 2027. Should you visit the sites and encounter a dead link or other errors, then please [notify us about it](#).

Happy reading – and thank you for your interest in the IWM PRAISE project.

PODCAST HIGHLIGHTING THE RESULTS AND EXPERIENCES GAINED THROUGH IWM PRAISE



A podcast entitled [IWM PRAISE Highlights](#) has been produced at the end of the project. In the podcast project coordinator Per Kudsk and Mette Sønderskov from Aarhus University discuss the outcomes of the project with Carsten Fabricius and Jens Erik Jensen from SEGES Innovation.

[Find a link to the podcast here](#) or get it from the source where you normally find your podcasts.

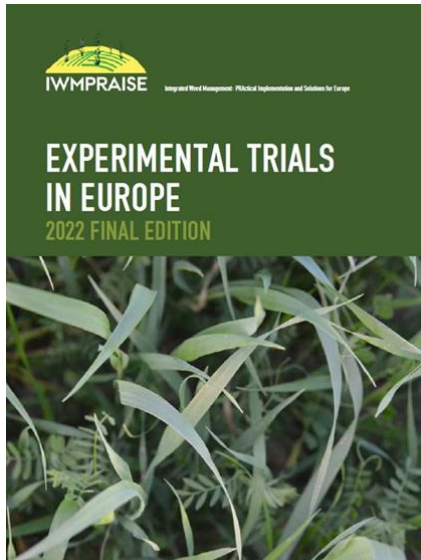
MINI SYMPOSIUM HELD IN ATHENS 19 JUNE 2022

The mini-symposium presented highlights from the project in the form of a back-to-back meeting before the EWRS International Symposium and was well received by the audience.



You may find all the presentations from the symposium in the [Events section on the IWM PRAISE website](#).

BOOKLET - FINAL 2022 VERSION



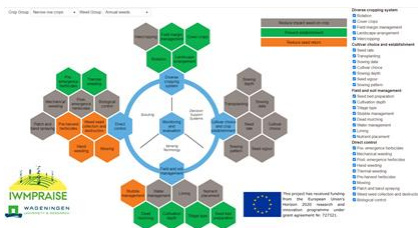
The fourth and final version of the [IWM PRAISE booklet of experimental trials in Europe](#) is online. The booklet covers all the IWM PRAISE field trials carried out in

- Spain
- Italy
- Slovenia
- Switzerland
- France
- United Kingdom
- The Netherlands
- Denmark

Now when all the trials have ended, this is the only document where you may find locations, protocols and results from all the field trials that were done in the project. The last edition deserves the description “book” rather than “booklet” as it contains 250 pages packed with information.

[See and download your copy of Experimental Trials in Europe 2022 Edition here.](#)

IWM TOOL



IWM PRAISE partner Wageningen University and Research developed a so-called [IWM Tool](#) under Work Package 1 of the project. The IWM Tool is hosted on an external website. Therefore, you will open the tool in a separate tab in your browser.

The idea is that the IWM Tool present relevant tools and tactics to manage weeds in different types of cropping systems. You choose the crop group and weed group in the upper left corner of the screen, and the hexagons will show the relevant weed management tools and tactics. By clicking on the hexagons themselves, you will be presented with a fact sheet on the tool. See e.g. a fact sheet on thermal weeding [here](#).












Questions and comments regarding the [IWM Tool](#) should be sent to [Marleen Riemens, Wageningen University and Research](#).

TOOL SHEETS

Literally as this newsletter is being prepared, [new tool sheets](#) are being uploaded to the IWM PRAISE website.

The idea is that each tool sheet will introduce an IWM tool and

ALL TOOL SHEETS

	24. NOVEMBER 2022 TOOL SHEET: DELAYING CEREAL SEED GERMINATION
	22. NOVEMBER 2022 TOOL SHEET: SPOT SPRAYING/PATCH SPRAYING – PERENNIAL WEEDS
	22. NOVEMBER 2022 TOOL SHEET: WEED CUTTING ABOVE THE CROP
	22. NOVEMBER 2022 TOOL SHEET: IPM USE OF HERBICIDES
	22. NOVEMBER 2022 TOOL SHEET: INTER-ROW HOEING – SUGAR BEETS + OTHER ROW CROPS
	22. NOVEMBER 2022 TOOL SHEET: BAND SPRAYING
	22. NOVEMBER 2022 TOOL SHEET: CROP ROTATION AND MANAGEMENT OF INTERCROP PERIODS
	22. NOVEMBER 2022 TOOL SHEET: ROLLER CRIMPER OR CUT-ROLLER
	22. NOVEMBER 2022 TOOL SHEET: LIVING MULCH IN COMBINATION WITH STRIP-TILLAGE
	22. NOVEMBER 2022 TOOL SHEET: LIVING MULCH IN COMBINATION WITH NO-TILLAGE
	22. NOVEMBER 2022 TOOL SHEET: LIVING MULCHES IN FIELD VEGETABLES

1. explain how it works,
2. give an indication of its readiness for use in practice (one to five tractors, five tractors meaning immediately ready)
3. an attempt to indicate the effectiveness of the tool against weeds (indicated by one to five weed plants, five plants meaning highest efficacy), and
4. illustrate its use by one or two photographs.

Finally, on some of the tool sheets, links are given to other resources from the project.

Tool sheets can be considered in many ways to be complementary to the fact sheets presented in the IWM Tool.

Please notice as there are more than 30 different tool sheets, you may filter them by tool category or by crop, by scrolling down at the [tool sheet tab](#).

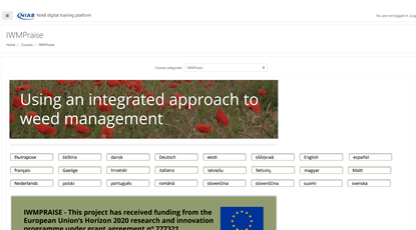
INSPIRATION SHEETS



Over the life of IWMPRAISE, we have published 32 different inspiration sheets on the website. These sheets are one-pager documents (well, sometimes they are two or three pages), describing different aspects of IWM in a very concise way, focusing on “how to do it”.

We have shown front pages of the three most recent inspiration sheets below, but please find them all on the [website](#).

IWMPRAISE E-LEARNING MODULES



Eight different [e-learning modules](#) were developed during the project with the aim of supporting out-of-classroom self-studies regarding IWM.

However, the materials may also be valuable to teachers putting together course programmes in IWM. Each module consists of a video presentation and some supplementary notes, comments, and links to various resources, both within and outside the IWMPRAISE project. [The e-learning modules](#) are hosted by the [NIAB digital training platform](#) but may also be accessed directly from the [IWMPRAISE website](#), where an introduction is available.


Finally, it should be added that the e-learning modules highlight the results from IWMPRAISE under the different topics.

PLAY THE IWM GAMES!

Some people, and perhaps particularly young people, tend to like to learn by playing. So, we took the challenge and developed two IWM games during the IWMPRAISE project. One game focuses on annual cropping systems, and another one covers perennial cropping systems.

Both games may be downloaded complete with game boards, various types of cards, rules and everything on the website:

[IWM Game annual crops](#)



Horizon-MSCA-01-2020-1010172020-01-0012 - Innovative training and the European programme under grant agreement No. 727321

TO TRAIN BY PLAYING, TO PLAY BY TRAINING

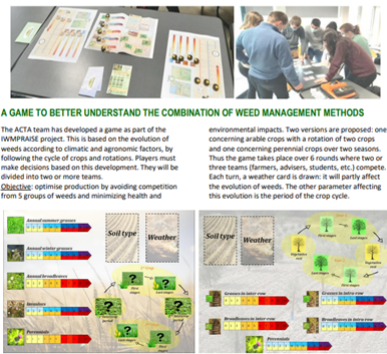
Why play? Playing is a way to encourage reflection or learning alone or in a group, in competition or not.
Who can play? Actors, learners, facilitators, advisers, technicians or teachers... anyone who does co-design of cropping systems in their activities!
In what framework? Alone or in groups, as part of support for groups of farmers, training, school interventions from basic levels to agricultural engineering schools or universities. Thus the game can be used in the context of training or group activities. The game also facilitates exchanges and the sharing of experiences. It also means doing useful objectives during a play.

DID YOU KNOW??

GAMAE is a French platform of resources (scientific and technical) dedicated to serious games in the field of agriculture, food, environment and territorial development (AFETD). Based in Clermont-Ferrand, within the IWM Terroires, it aims to highlight serious games in AFETD, to facilitate their design and use and to scientifically assess their relevance.

A GAME TO BETTER UNDERSTAND THE COMBINATION OF WEED MANAGEMENT METHODS

The ACTA team has developed a game as part of the IWM PRAISE project. This is based on the evolution of weeds according to climatic and agronomic factors, by following the cycle of crops and rotations. Players must make decisions based on this development. They will be divided into two or more teams.
Objectives: optimise production by avoiding competition from 5 groups of weeds and minimizing health and environmental impacts. Two versions are proposed: one concerning arable crops with a rotation of two crops and one concerning perennial crops over two seasons. Thus the game takes place over 4 rounds where two or three teams (farmers, advisers, students, etc.) compete. Each turn, a weather card is drawn: it will partly affect the evolution of weeds. The other parameter affecting this evolution is the period of the crop cycle.



Figures 1 and 2 - Game boards for arable crops (left) and perennial crops (right).

IWM Game for perennial crops

From experience we recommend that an experienced moderator will oversee the gaming, at least for the first round, to make sure that everyone understands and plays by the rules. We have seen that it may be very useful to play the game at the end of a course programme in integrated weed management. Contact [Philippe Delval, ACTA](#), in case you are interested in giving feedback regarding the IWM games.

IWMPRAISE ON SOCIAL MEDIA PLATFORMS

If you are a user on Facebook, Twitter, Instagram, YouTube, or LinkedIn, you may see a lot of the outputs from the project there. Please find the updates by the hashtag #iwmpraise.



SCIENTIFIC PUBLICATIONS



Many scientific publications are being published as a result of the activities in the IWM PRAISE project. We will try to maintain a list of scientific publications on the project website in an item under [Publications](#).

You may also be interested in the results presented at the IWM PRAISE mini-symposium held in Athens (see above) on 19 June 2022 or the [IWM PRAISE-related presentations and posters](#) presented at the 19th International EWRS Symposium, held in Athens, Greece, on 20-23 June 2022.

LEARN MORE

[FIND OUT MORE ABOUT IWMPRAISE ON TWITTER AT #IWMPRAISE.](#)

[YOU CAN ALSO CHECK FOR NEWS ON THE IWMPRAISE WEBSITE.](#)



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