Use the Q&A button to ask questions

Participate in voting for preferred questions to respond to at the end of the presentations

(the most voted questions will be asked first !)











FINAL WEBINAR - 12 March 2025 - 14:00-17:00 CET Do we still need IPM?



HE EUROPEAN UNION' HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME

IPMWORKS, a specific methodology to promote holistic IPM and reduce the reliance on synthetic pesticides

Nicolas Munier-Jolain | INRAE | Coordinator

Objectives of the IPMWORKS network of demo farms



Demonstrate - with 'pioneer' farmers - that

- Reducing drastically pesticide use and impact is possible...
- ...is cost-effective...
- ... and does not impair food security in EU

... provided that IPM is considered with a 'holistic' approach







IPMWORKS supports a holistic approach to IPM



The 5 pillars of holistic IPM

Agricultural landscapes with diverse semi-natural habitats Hedgerows, flowers strips, beetle banks

> Cropping systems designed to decrease pest/weed/disease pressure Crop rotation, cultivars, sowing dates, fertilisation, soil tillage...

Preferential use of non-chemical control options

IPM Optimised decision making to avoid unnecessary treatments DSSs

> Increased efficiency of treatments Patch spraying, equipment

Healthy crop

reduced pesticide use and impact, safer environment, enhanced biodiversity, avoidance of resistances, better pest control



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AND INNOVATION PROGRAMME

The IPMWORKS network of demo farms





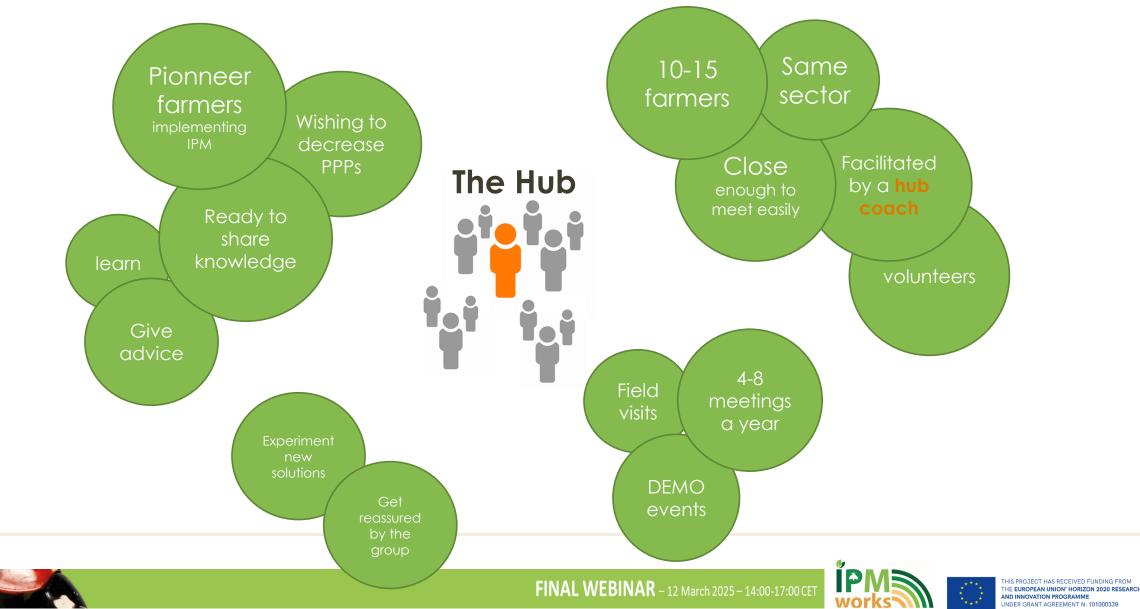


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HIS PROJECT HAS RECEIVED FUNDING FROM THE EUROPEAN UNION' HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME NDER GRANT AGREEMENT N. 1010003

A specific methodology for fostering IPM adoption

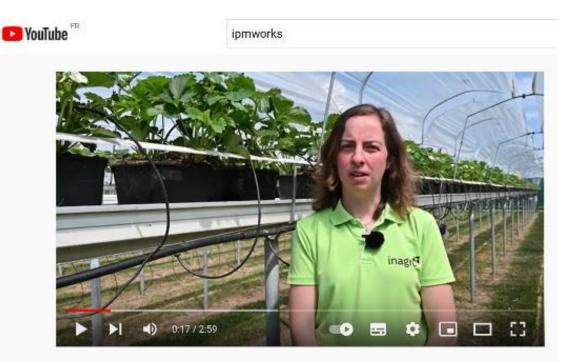
based on peer-to-peer knowledge exchange... and facilitation



A specific methodology for fostering IPM adoption based on peer-to-peer knowledge exchange... and facilitation

The major role of Hub coaches

'IPMWORKS hubs are guided by a hub coach. Do you want to know how they work? Check it out in this video!' Jolien Claerbout, Hub Coach at INAGRO, Belgium https://www.youtube.com/watch?v=7zLqcKrjD7U



The role of Hub Coach | IPMWORKS







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A specific methodology for fostering IPM adoption based on peer-to-peer knowledge exchange... and facilitation



Enthusiastic endorsement by the IPMWORKS community

Garmers

- Happy to have technical discussions with peers
- Feel reassured from the group

Hub Coaches

- A new approach for advisers
- More diverse activities
- A progressive development of trust in the group





A specific methodology for fostering IPM adoption based on peer-to-peer knowledge exchange... and facilitation



The IPM**WORKS** Hub Coach 'Capacity building', March 2022, Toulouse, France

The methodology required specific capacity building of advisers

>> a EU-wide network of advisers

- Knowing each other
- Sharing some technical knowledge
- Sharing tips and methods for fostering knowledge exchange







A specific methodology for fostering IPM adoption based on peer-to-peer knowledge exchange... and facilitation



A major legacy of H2020 IPMWORKS

Excellent resources from the practical experience of 22 Hub Coaches

- How to recruit farmers in a hub
- How to build trust
- How group activities do encourage innovation
- How to combine technical knowledge on IPM and soft skills
- How to promote a holistic vision of IPM
- Tips for interactive learning on IPM e.g. benchmarking, field visits, co-design workshops, cross-visits...
- Tips for efficient demo events
- And a lot more...



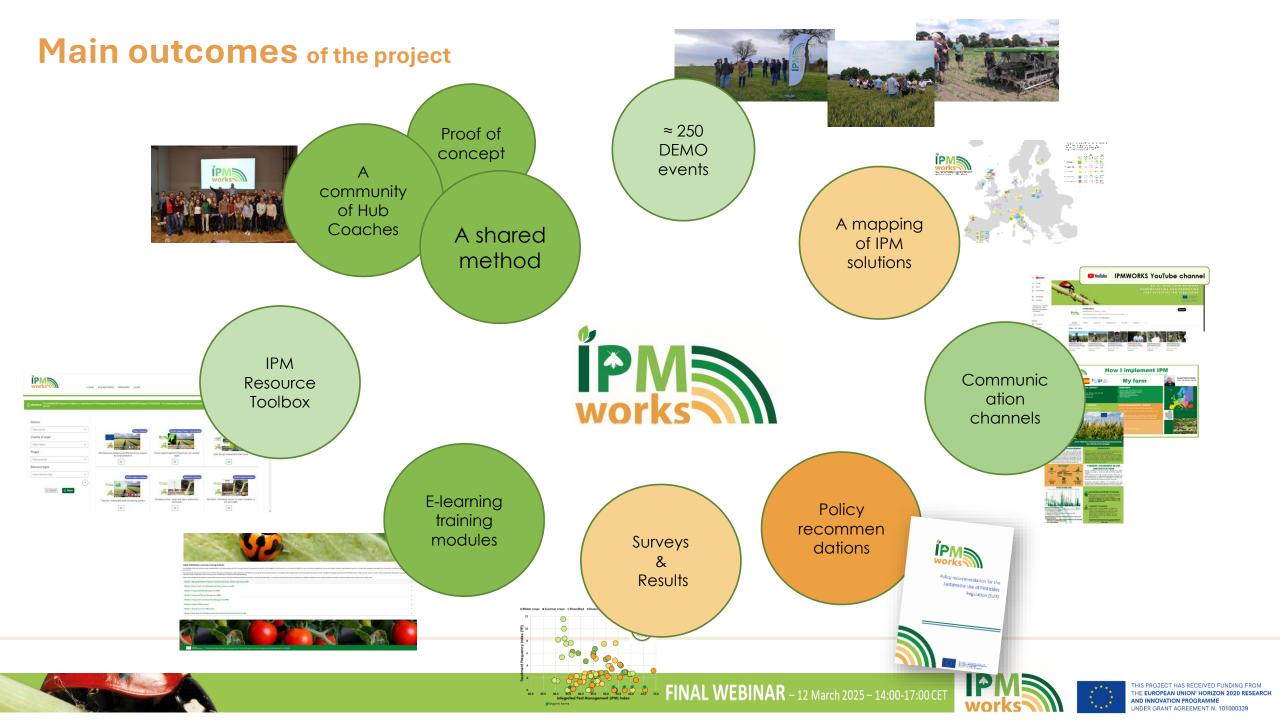
Six steps for creating a good flow in a meeting/event. Source: Simon Lox.

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Documents available from the project web site https://ipmworks.net/category/public-deliverables/











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THANK YOU!

Nicolas Munier-Jolain INRAE | nicolas.munier-jolain@inrae.fr





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Progress made in IPM adoption in IPMWORKS farms & mapping IPM solution

Mette Sønderskov | Aarhus University, Denmark

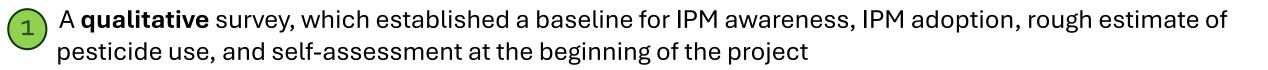


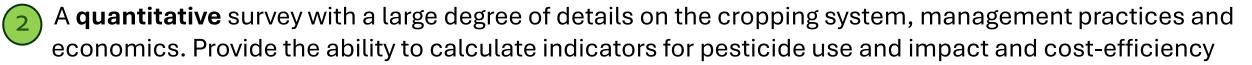
IPM in action Changes during the time of the project and cost-efficiency

The data was collected from the IPMWORKS network farms in all five sectors: arable, vineyards, outdoor vegetables, orchards and greenhouse production



<u>3 surveys:</u>





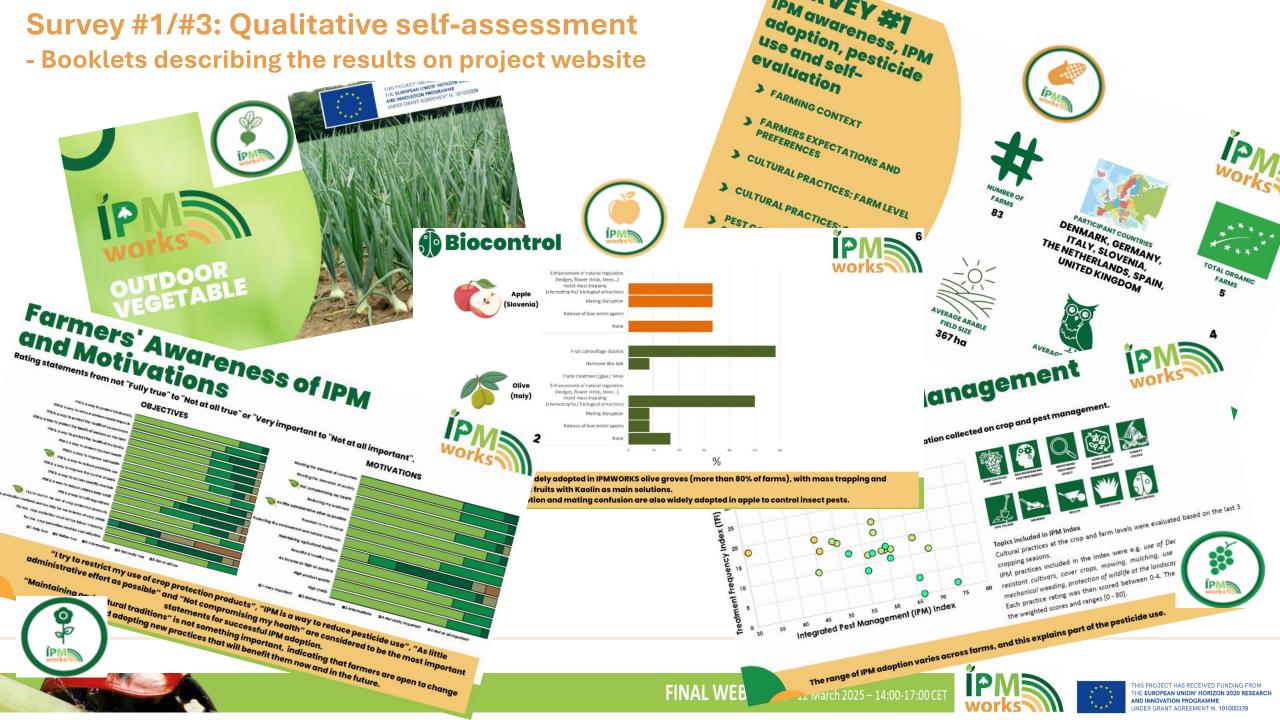
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Follow up on survey #1 to focus on changes during the project in crop management, especially pesticide use









Highlights from Survey #1

Similarities among sectors

- High awareness among the participating farmers of IPM as a way to reduce plant protection products regardless of sector and a strong requirement for IPM to be cost-effective
- Farmers were generally driven by a motivation to achieve high yields of high quality, meet the demands
 of consumers/society and protect health and environment

Deviations among sectors

- The perceived risk of relying on alternative IPM strategies was considered slightly higher by outdoor vegetable and greenhouse farmers than by arable, orchard and vine producers
- The increased labour requirement for some IPM strategies were of slightly higher importance for arable and greenhouse sectors than for outdoor vegetable, orchard and vine producers





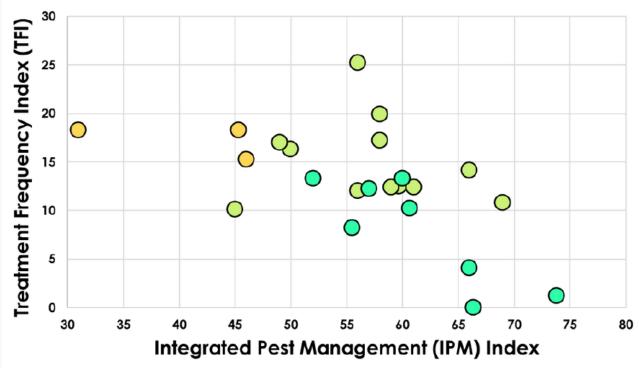


Highlights from Survey #1 Example from vineyards



We tested a new IPM Index calculated from the information collected on crop and pest management.

• Spain • Portugal • Slovenia





CHOICE



TREATMENT

EFFECT



BIODIVERSITY

MANAGEMENT



CHOICE



Topics included in IPM Index

DECISION MAKING

FOR TREATMENTS

Cultural practices at the crop and farm levels were evaluated based on the last 3 cropping seasons.

IPM practices included in the index were e.g. use of Decision Support Systems, resistant cultivars, cover crops, mowing, mulching, use of biocontrol solutions, mechanical weeding, protection of wildlife at the landscape scale...

Each practice rating was then scored between 0-4. The IPM index is the sum of the weighted scores and ranges [0 - 80].







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Mapping IPM solutions

The 5 pillars of holistic IPM

Agricultural landscapes with diverse semi-natural habitats Hedgerows, flowers strips, beetle banks

Cropping systems designed to decrease pest/weed/disease pressure Crop rotation, cultivars, sowing dates, fertilisation, soil tillage.

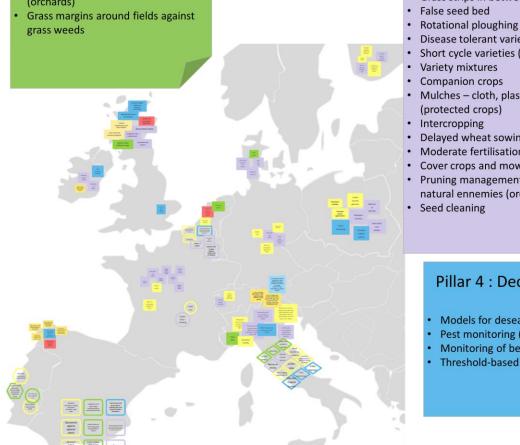
referential use of non-chemical control options

IPM Optimised decision making to avoid unnecessary treatments 832

> Increased efficiency of treatments Patchspraying, equipment

Pillar 1 : Landscape

- Pollinator strips/ wildflower margins
- Hedgerows & flower strips
- Undersown flowers
- Banker plants
- Insect hotels
- Nest boxes for bats
- Grassing, reduced number of mowing (orchards)



Crop rotation Diversified sowing seasons Pillar 3 : non-chemical Temporary grasslands Grass strips in between strawberries control False seed bed

Mechanical weeding (several options)

Biocontrol agents

under olive trees

Mating disruption

Kaoline and rock powder (vines &

Cover grasses and perenial plants

• Sheep grazing against weeds (vines)

Mass trapping (& light traps)

Biostimulants

Biopesticides

orchards)

Protein baits

Disease tolerant varieties

Pillar 2 : Cropping systems

- Short cycle varieties (maize)
- Variety mixtures
- Companion crops
- Mulches cloth, plastic or straws
- (protected crops)
- Intercropping
- Delayed wheat sowing
- Moderate fertilisation
- Cover crops and mowing (vines)
- Pruning management to increase
- natural ennemies (orchards) Seed cleaning

Pillar 4 : Decision making

- Models for desease forecast
- Pest monitoring (BYDV)
- Monitoring of beneficials
- Threshold-based treatments

Pillar 5 : Efficiency of treatments

Adjusted doses Targeted application Precision spraying of perenial weeds (Arable crops)

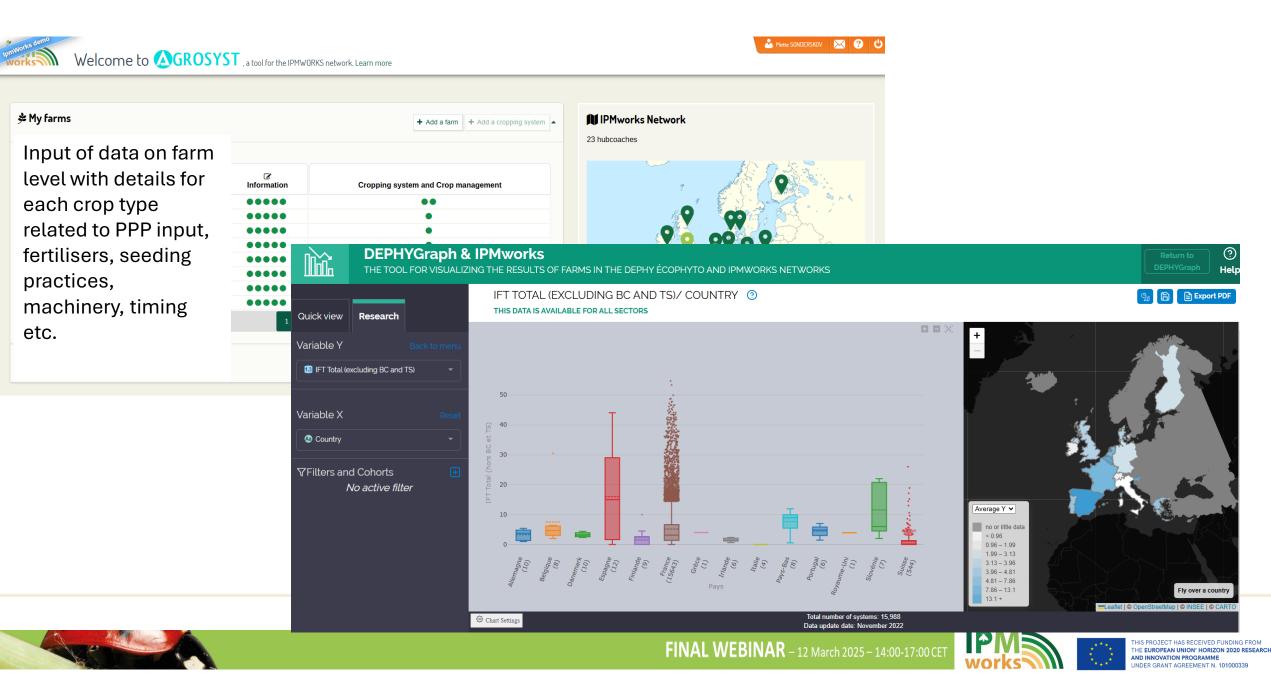




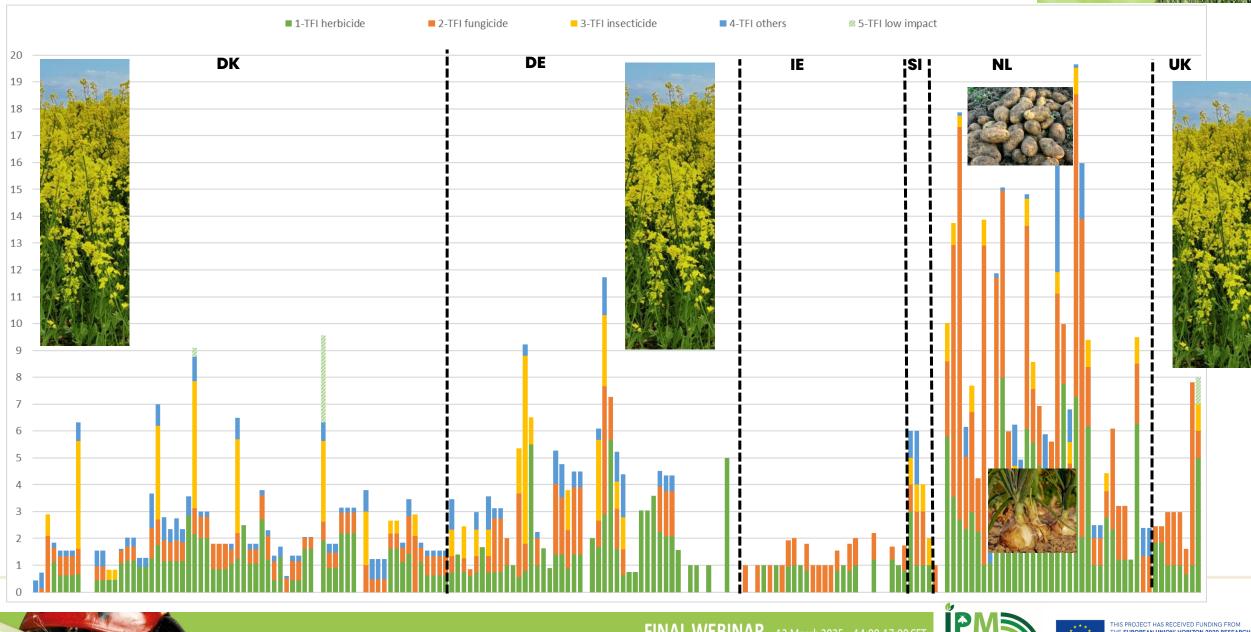


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Survey #2 : Quantitative assessment with a high number of details recorded



TFI of individual fields : TFI calculated as France do: The amount used divided by the minimum dose rate







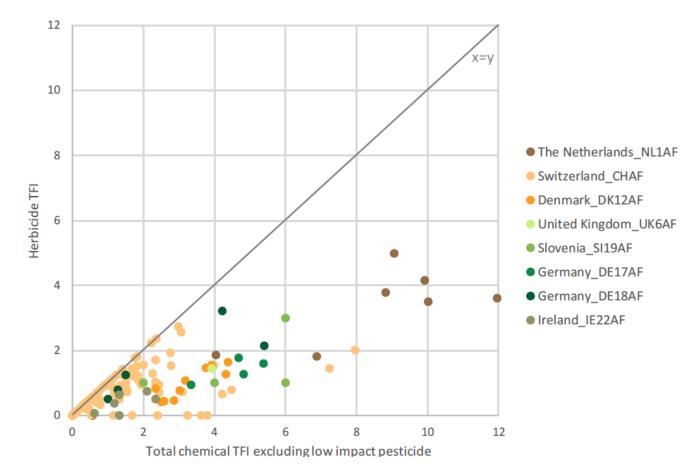
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Highlights from Survey #2

Quantitative assessment with a high number of details recorded Herbicide TFI as a function of total TFI





The lower the general TFI, the closer we are on the x=y line: this indicates that it is more difficult to decrease the use of herbicides than the other types of PPP

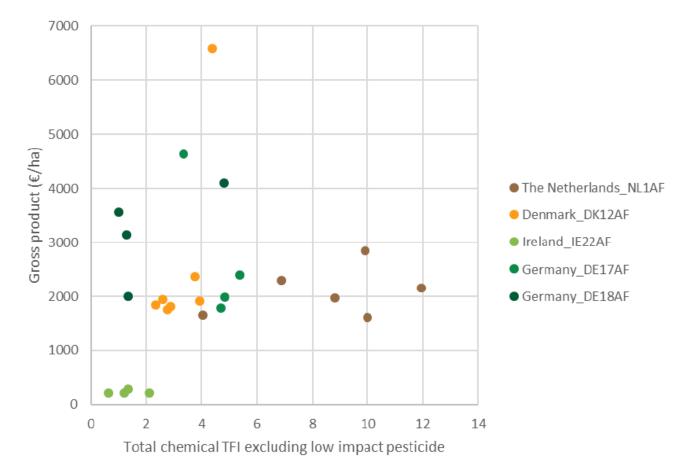






Highlights from Survey #2 Quantitative assessment with a high number of details recorded Gross margin as a function of total TFI





There is no high correlation between a higher TFI and a high gross margin:

Farmers with lower TFI can equally well have a high profit as the farmers with higher TFI



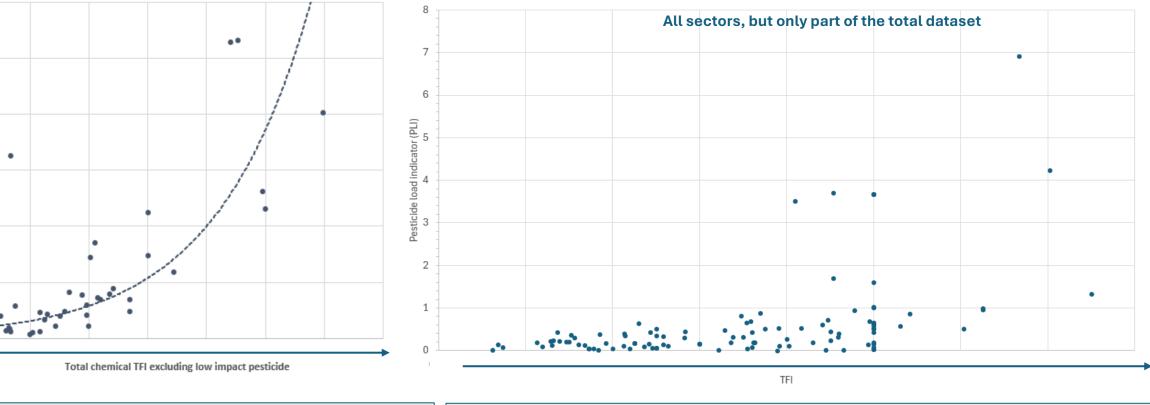


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Highlights from Survey #2 Quantitative assessment with a high number of details recorded Comparing other PPP use indicators to TFI

NOTE: WORK IN PROGRESS!

Harmonised risk indicator (HR1)



HR1 is calculated by multiplying the quantities of active substances in plant protection products placed on the market by a weighting factor *EU Directive 2019/782 (2009/128/EC)*

Pesticide load indicator (PLI, a Danish indicator)

PLI = Ecotoxicity Load + Environmental Fate Load + Human Health Load. The load of each part is based on the standard dose rate and parameters for fate, ecotoxicological or human health impact *Kudsk, P., et al. (2018). "Pesticide Load—A new Danish pesticide risk indicator with multiple applications." Land Use Policy* **70**: 384-393.

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120

100

80

60

40

20

HRI1

Survey #3: What changed during the time of the IPMworks project / qualitative self-assessment

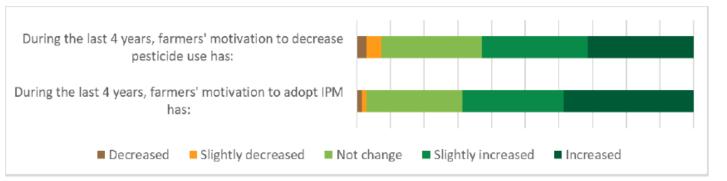


PARTICIPANT COUNTRIES

DENMARK, GERMANY, IRELAND, POLAND,

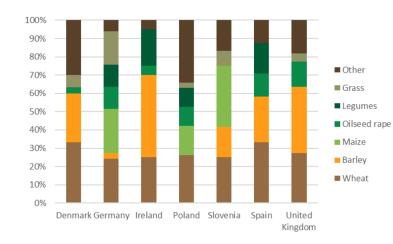
SLOVENIA, SPAIN, UNITED KINGDOM

CHANGES IN MOTIVATION



CONTRIBUTION FROM HUB COACHES AND OTHER FARMS





NUMBER OF FARMS

70







What changed during the IPMworks project among hub-farmers?



During the last years, farmers tolerated more diseases in their crop :										
During the last years, farmers tolerated more pests in their crop:										
During the last years, farmers tolerated more weeds in their crop:										
During the last years, farmers developed further Biocontrol solutions:										
During the last years, farmers developed further the use of DSS in their crop:										
During the last years, farmers changed fertilization to improve pest/disease/weed management:										
During the last years, farmers changed sowing dates to prevent/minimize pest/disease/weed problems:										
During the last years, farmers developed further mechanical weeding:										
During the last years, farmers developed further false seed bed to manage weeds:										
During the last years, farmers introduced companion crops to improve resistance to pests/diseases/weeds:										
During the last years, farmers started to mix cultivars to improve resistance to pests/diseases/weeds:										
During the last years, farmers changed cultivars to improve resistance to pests/diseases/weeds:										
Not at all true	Interme	diate 🔳	Rather tr	ue 🔳 Full	y true	-	-	-	-	



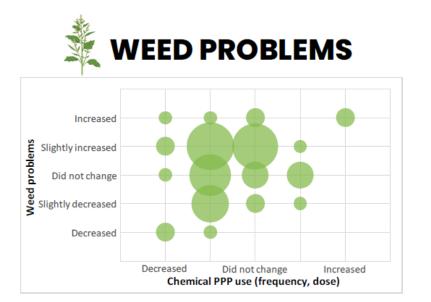




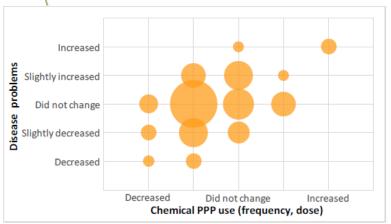
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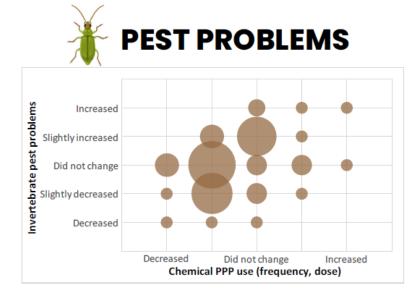
What changed during the IPMworks project among hub-farmers?











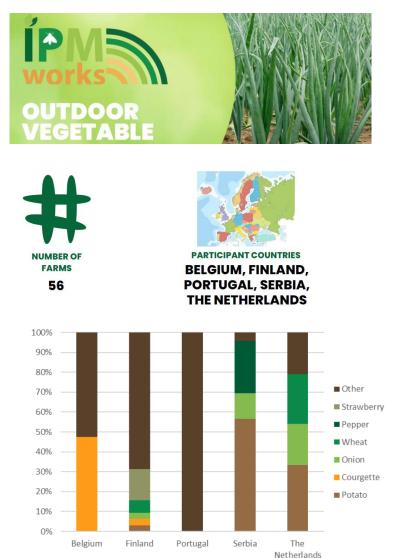




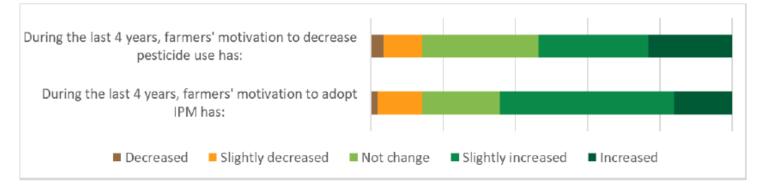


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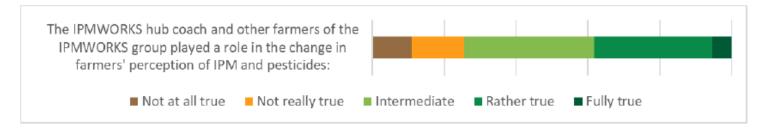
Survey #3: What changed during the time of the IPMworks project / qualitative self-assessment



CHANGES IN MOTIVATION



CONTRIBUTION FROM HUB COACHES AND OTHER FARMS





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FINAL WEBINAR - 12 March 2025 - 14:00-17:00 CET Do we still need IPM?



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THANK YOU!

Mette Sønderskov | Aarhus University | mette.sonderskov@agro.au.dk







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THE EUROPEAN UNION' HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME R GRANT AGREEMENT N 1010003

Sharing farmer experiences with IPM

Bruno Neves, Portugal







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MY FARM WITHOUT PESTICIDES

Bart Piskorski organic farmer EKO-ŁAN, Poland

THE IDEA OF MY FARM

Organic farming Small food processing Directly to consumers **Demonstration farm**

From Farm to Fork Strategy





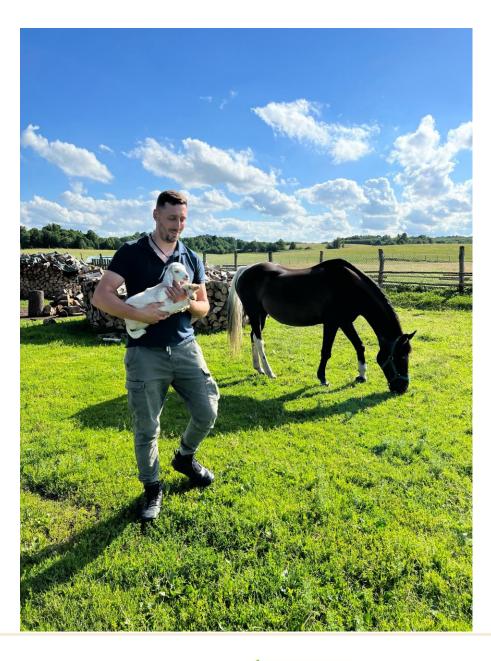
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My Farm's description

- 1. Location: Kołodziejewo, Janikowo County, Poviat Inowrocławski, Kujawsko-Pomorskie region
- 2. Area: 33.5 ha
- 3. Soils: medium and light (from class 3 to 6)
- Crops: oil plants (flax, black cumin, hemp, milk thistle, evening primrose, camelina), cereals (spelt, emmer, rye, rye, oats, buckwheat, common wheat), legumes (soybeans, lupine, peas), vegetables (potatoes, beetroot)
- 5. Processing: cold-pressed oils and flour
- 6. Own machinery for cultivation and harvesting (tractors, combine harvester, seed drills, weeder, etc.)
- 7. Own machinery for processing (oil press, grain and seed cleaning line)



Why organic farming?







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Organic farming - regression or modernity?

Many farmers

and people associated with agriculture often perceive organic farming as a regression in development, which comes from a bad interpretation and lack of openness to change.

They justify these opinions by observing small organic farms, mostly without with modern equipment and run by people for whom nature is more important than the economic results of the farm.









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Organic farming

the most modern form of running a farm as it requires the use of modern techniques of land cultivation

(digital, mechanical, biological, organic chemistry) to obtain high-quality agricultural products, ensuring food security, without degrading the soil, leaving it in an unimpaired condition for future generations.

Additionally, organic farming is closest to the idea of "from farm to fork", as organic products are a response to consumer needs.









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Cutting down on pesticides on my farm

The beginning was very difficult.

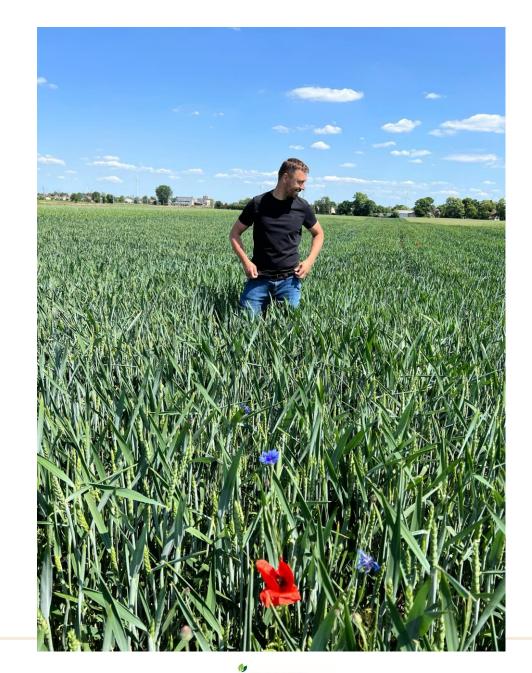
I had no experience.

The machines I used were of low efficiency.

I couldn't handle the weeds.

For several years I gained experience and invested in modern equipment, thanks to which I effectively limited weeds. The knowledge I gained during study visits helped me to design a good crop rotation system.

Joing the IPMWORKS network allowed me to exchange knowledge on both local and international level.





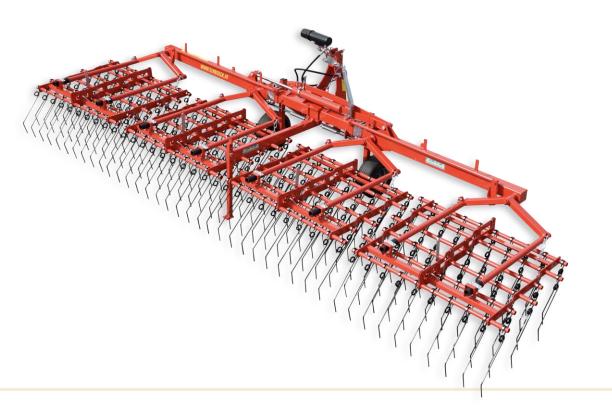
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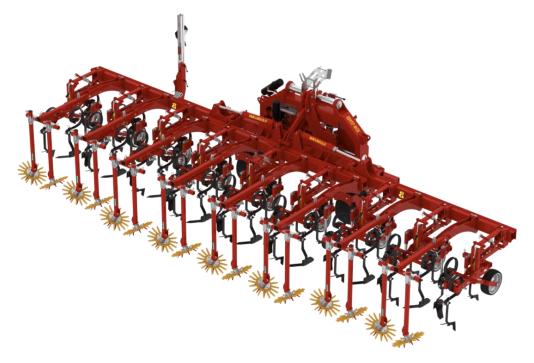
Types of mechanical weed control

Mechanical weed control can be divided into two types:

- 1. Contiguous weeders
- work the whole field for example: tine weeder



- 2. Incontiguous weeders
- differentiated action for example: row crop cultivator









Contiguous weeders



Contiguous weeders work the entire field surface and are also called 'broad acre' weeders.

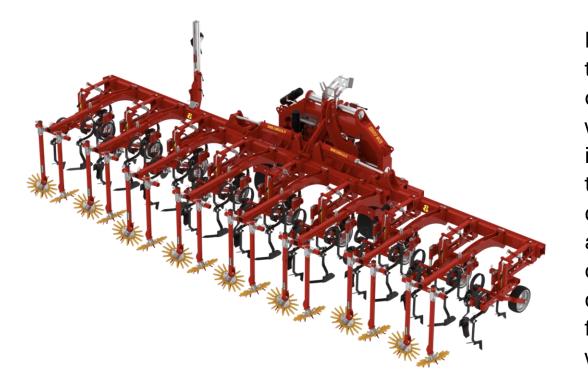
As contiguous weeders weed the whole soil surface both crop and weeds alike, the crop must therefore be able to survive or 'resist' the weeding action while the weeds need to be susceptible to it. Contiguous weeders are somewhat analogous to selective herbicides that are applied to both weeds and crop, which kills the weeds while the crop survives. Contiguous weeders are mostly used in grass and arable crops, especially those sown with row spacings less than 20 cm, although some can also be used in hardier vegetable crops.







Incontiguous weeders



Incontiguous weeders have gaps for the crop to pass through. The inter-row hoe is the classic example of this type of machine, where the inter-row space is vigorously hoed while the crop row is untouched. However, modern incontiguous machines often also have tools for weeding the intra-row. These are in turn divided into two types: nondiscriminatory weeders apply the weeding action to crop and weeds alike and are therefore comparable to the contiguous weeders (see below for more detail), while the discriminatory weeders have a sensor to determine crop from weeds and then only apply the weeding tool to the weeds

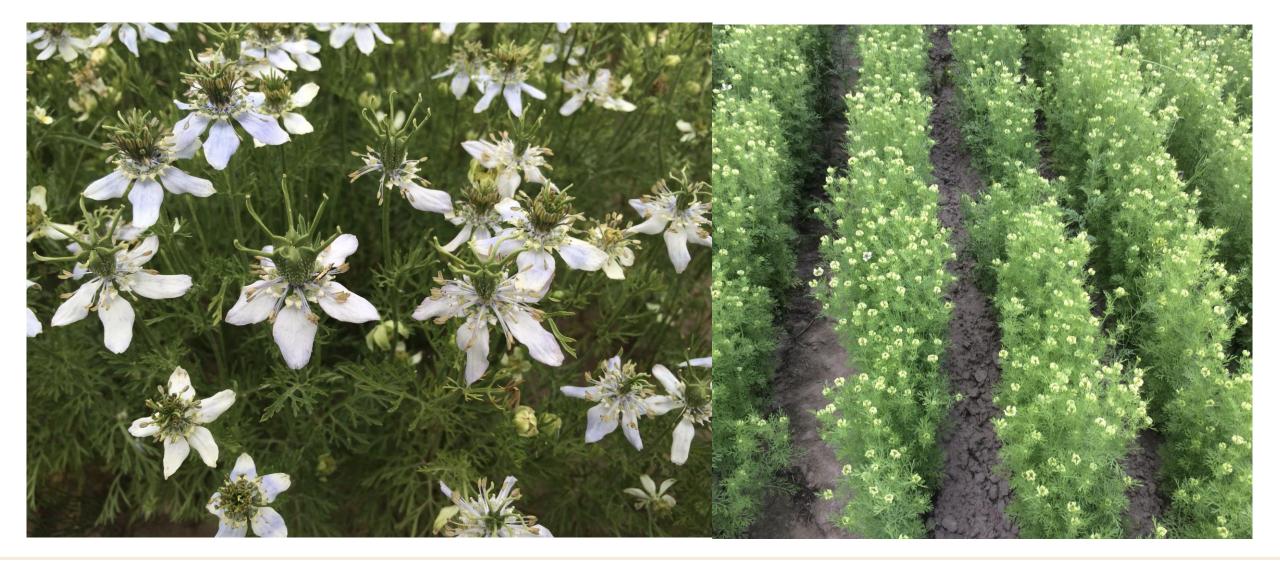








The cultivation of oil plants distinguishes our farm - photos from the cultivation of black cumin









Processing and direct sales

This is an action that allows you to shorten the route to the consumer ("from farm to fork"), which increases the farm's income.

Cold pressing oil and grinding grain into flour is our way of life.

We want the countryside to be associated with food production because it is here that everything begins with the soil.









Processing and direct sales

Sales are conducted via the website, at fairs, festivals, to restaurants and directly at the farm.





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Farm demonstrations

We organize demo events and field trainings for guests from Poland and abroad













Cooperation

My farm actively cooperates with farmers, universities, institutions, restaurants, media and companies from Poland and abroad.

We participate in varied projects (such as IPMWORKS), sharing the field and products.

In the photo:

Professor Józef Tyburski from the University of Warmia and Mazury - soybean cultivation in 2022 – our joint research on varieties.









Media cooperation

Taking advantage of different channels (TV, Internet press, newspapers, social media) to promote pesticides reduction



FARMER.PL > PRODUKCJA ROŚLINNA

Tradycja i innowacja napędzają ekologiczne rolnictwo

zygotowany w ramach programu"Energia dla Wsi", prowadzonego przez Stowarzyszenie na Rzecz Efektywnośc Red Podziel się im.prof. Żmijewskiego, przy wsparciu Fundacji Polska z Natury Opublikowano: 25-06-2024, 08:47





Wzrasta zainteresowanie żywnością ekologiczną, jednak w Polsce ekst.: Lucyna Talaśka-Klich tylko ponad 3 proc. gospodarstw stawia na taką produkcję. Aby zwiększyć zainteresowanie rolników organizowane są szkolenia i ıdna sytuacja w rolnictwie konferencje, które mają zachęcić do zmiany stylu gospodarowania. wencjonalnym sprawiła, że Eksperci sa optymistami twierdzac, że areał upraw powoli, ale bedzie w Kujawsko-Pomorskiem rośnie

Bartlomiej Piskorski z Kołodziejewa podkreśla, że przejście z rolnictwa konwencjonalneg **EKOLOGIA MOŻE**

sa nomej riskorski z noodziejewa poziciesta, ze przejscie z romiciwa nomocnejowane na ekologiczne nie jest latwe i do takiej zmiany trzeba się bardzo dobrze przygotować

inowrocławski). - Żeby taka zmiana się p wiodła, potrzebna jest duża wiedza i d świadczenie, którym mogą się podzie inni rolnicy ekologiczni. Oczywiśc wsparcie doradców jest bardzo istotne

On jest rolnikiem ekologiczny od 2017 roku, ale już kilka lat wcześr próbował uprawiać bez stosowa sztucznej chemii. Najpierw robił sv go rodzaju doświadczenia na własny polach, a gdy coś się nie udawało, rzystał z wiedzy i doświadczenia nych. - Nie skoczyłem na głęboką dę - zauważa. - Byłem ostrożny.

Dziś jest zadowolony z tego, że pro kuje żywność bio. I chętnie radzi in gospodarzom np. jak pielęgnować r ny, usuwać chwasty przy użyciu mas

Szukają alternatywy Zauważa, że ostatnio wiecoj za k







ainteresowanie produkcją

kologiczną. Wpływ na takie

cyzje mają nie tylko wysokie

Knowledge exchanges, more and less formal

Participating in demo events, trainings, conferences and study trips in Poland and abroad is a very important element of the farm's development.

Alba Saez 🔌



Bl as bt at 1 1 as as 1 as as 1 842 1.1.1 an 15 18 17 5* as as as 11 8. 88 11 11 11 18 18 18 In fillen an an file in fant fi af Mechanical weed control **Bart Piskorski** 07.12.2023







Sharing and exchanging knowledge at universities, agricultural schools, conferences and trainings

CROP-CARE

CAR AND S





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The path I have chosen is not an economic choice but a **calling**.

Not always the work that provides maximum profit will bring health, joy and happiness in life.

Fulfilling a calling is not always a bed of roses. It costs many sacrifices and struggles with challenges beyond our control.

Still, I would not do it any other way!













An EU-wide farm network demonstrating and promoting cost-effective IPM strategies

FINAL WEBINAR – 12 March 2025 – 14:00-17:00 CET Do we still need IPM?



THE EUROPEAN UNION' HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT N. 101000339



Bart Piskorski | bartlomiejpiskorski@gmail.com

IPMWORKS consult: Anna Kaszkowiak-Nowacka, KPODR | anna.kaszkowiak@kpodr.pl





An EU-wide farm network demonstrating and promoting cost-effective IPM strategies

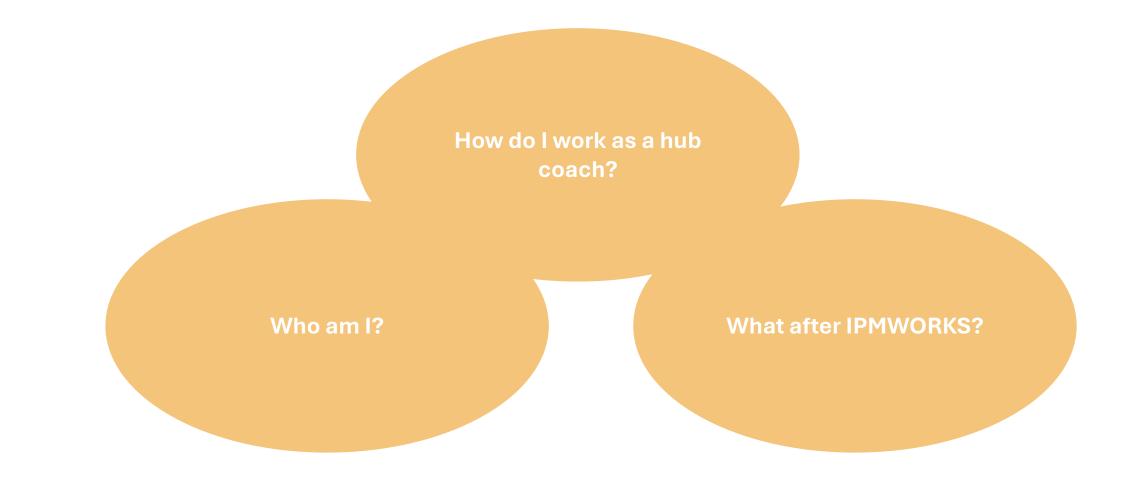
FINAL WEBINAR - 12 March 2025 - 14:00-17:00 CET Do we still need IPM?



HE EUROPEAN UNION' HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME GRANT AGREEMENT N 1010003

The centrale role of Hub Coaches for facilitating peerto-peer learning & IPM adoption

Jolien Claerbout | Inagro vzw









Who am I?





FINAL V

Who am I?

Hub:

- 11 Farmers
- Strawberries (soil/hydroponics), raspberry























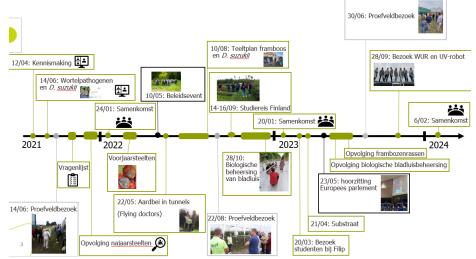
1. Hub



- Decide on the program
- Organise activities
 - Exchange knowledge
 - Introduce research
 - Introduce 'ready-to-use' IPM techniques













1. Hub



2. Individual









- 1-2-1 advice
- Monitoring of IPM-techniques



2. Individual













1. Hub



3. Broader public



2. Individual









- Organise demonstration events
- Communicate about holistisc IPM

3. Broader public





Importance of the strawberry variety



Management of Drosophila suzukii



Aphid control in strawberries



Flying doctors in soil-grown strawberries







1. Hub



3. Broader public



2. Individual



4. International





FINAL WEBINAR – 12 March 2025 – 14:00-17:00 CET



- Exchange between hub coaches
- Cross visits
- Policy events
- Attend international symposia and conferences





4. International









What after IPMWORKS?

- Continue on regional level
- Looking for a way to collaborate on international level











An EU-wide farm network demonstrating and promoting cost-effective IPM strategies

FINAL WEBINAR - 12 March 2025 - 14:00-17:00 CET Do we still need IPM?



HE EUROPEAN UNION' HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME R GRANT AGREEMENT N 10100033

THANK YOU!

Jolien Claerbout | Inagro vzw | jolien.claerbout@inagro.be





An EU-wide farm network demonstrating and promoting cost-effective IPM strategies

FINAL WEBINAR - 12 March 2025 - 14:00-17:00 CET Do we still need IPM?



THE EUROPEAN UNION' HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME R GRANT AGREEMENT N 10100033

The various IPMWORKS channels for dissemination

Joaquín Balduque | CIHEAM Zaragoza



IPMWORKS DEMONSTRATION EVENTS



Demonstration events 2021-2024

- 22 hubs organised events for 4 years
- 2021 low number of events → barriers by COVID
- Different sectors
- In total 250 events



An EU-wide farm network demonstrating and promoting cost-effective IPM strategies

Hub	Sector	Partner	Country	2021	2022	2023	2024	Total 2021-2024
2	Arable	WR	NL		4	5	1	10
5	Arable	KPODR	PL		4	3	4	11
6	Arable	ІНІ	UK		2	7	3	12
9	Arable	SSSA	IT		4	3	5	12
11	Arable	DL	DK	3	4	3		10
12	Arable	VELAS	DK		2	3	5	10
13	Arable	BIOSENSE	RS		2	5	4	11
15	Arable	INTIA	ES	1	3	2	4	10
17	Arable	JKI	DE		4	3	4	11
18	Arable	GLZ	DE		1	3	6	10
22	Arable	Teagasc	IE		7	6	5	18
19	Arable, vegetable, ornamentals	KGZ MB	SL	1	9	4	0	14
4	Greenhouse	INAGRO	BE		5	5	4	14
16	Greenhouse	COEXPHAL	ES	3	3	4	0	10
10	Orchards	SSSA	IT		2	3	5	10
1	Vegetables	Delphy	NL			7	5	12
3	Vegetables	INAGRO	BE		3	3	4	10
8	Vegetables	Consulai	PT	3	1	4	2	10
20	Vegetables	ProAgria	FI		1	7	7	15
7	Vineyards	Consulai	PT	2	1	4	3	10
14	Vineyards	FEUGA	ES		3	4	3	10
21	Vineyards	AUA	Gr			5	5	10
		Totals		13	65	93	79	250





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IPMWORKS DEMONSTRATION EVENTS





Example of best demonstration event Field-Demonstration: EcoRobotix ARA Spot Sprayer

Innovative Weed Control with Precision Technology

What?

Demonstration of the EcoRobotix ARA spot sprayer in onions & sugar beets, targeting various weeds (e.g. potato volunteers)

How?

Advanced camera technology for selective weed recognition 85-95% reduction in pesticide use High speed & capacity, practical for modern farming

Event Highlights

Presentation by Doorgrond: Machine operation, benefits & Q&A (52 farmers attended) Live field demo: Precision spraying (using water) to show accuracy Expert discussions on herbicide use, crop safety & ROI

Key Takeaway

Sustainable & efficient weed management with reduced chemical input!











AN EU-WIDE FARM NETWORK DEMONSTRATING AND PROMOTING COST-



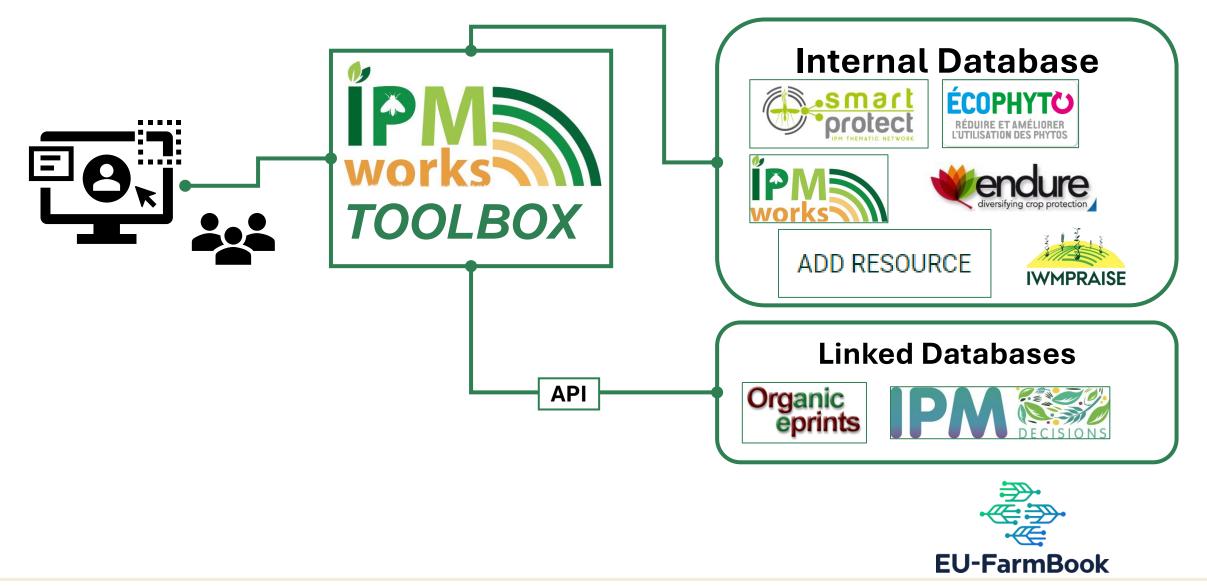








IPMWORKS TOOLBOX





FINAL WEBINAR – 12 March 2025 – 14:00-17:00 CET



IPMWORKS TOOLBOX

Adding Resources



Add resource	
Short description	Short description is required
Long description (in English, 500 words)	Long description is required
Long description (in native language, if not English,	
()	

by ticking this box you confirm that you have read and accept Part 1 of the Toolbox Terms and Conditions. You can contact IPMWORKS-WP4@inrae.fr at any time to amend or remove your submission.

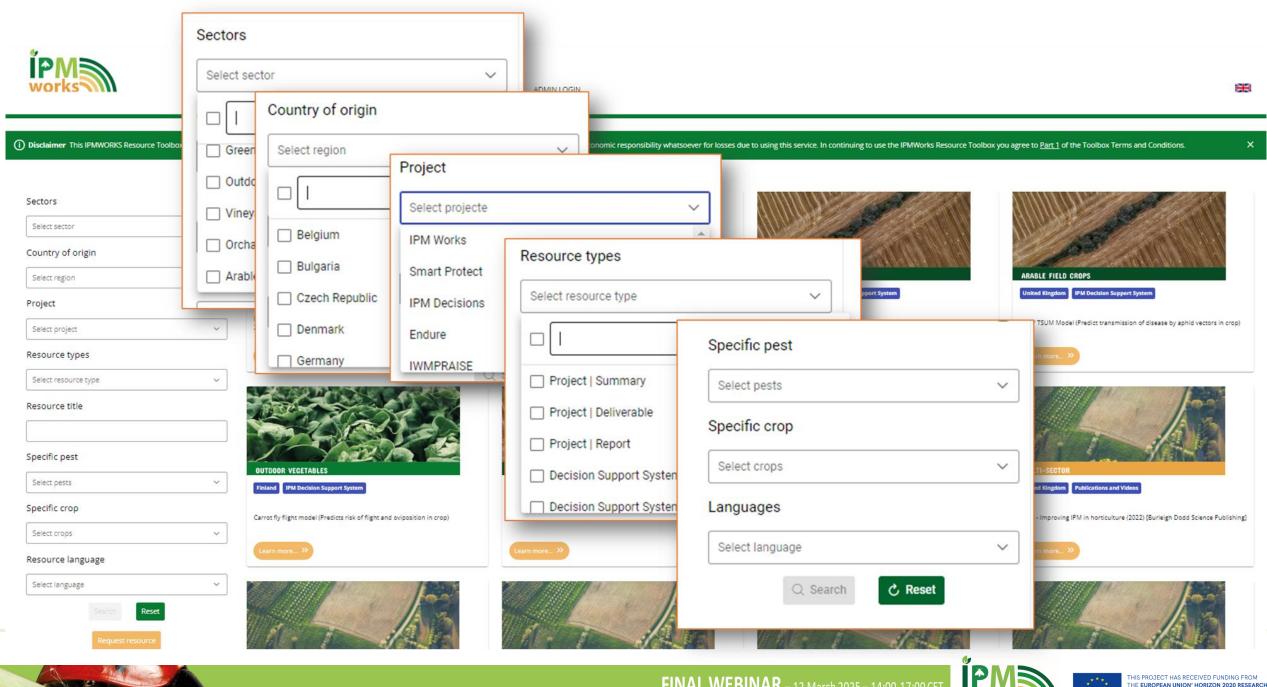
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🖹 Save resource







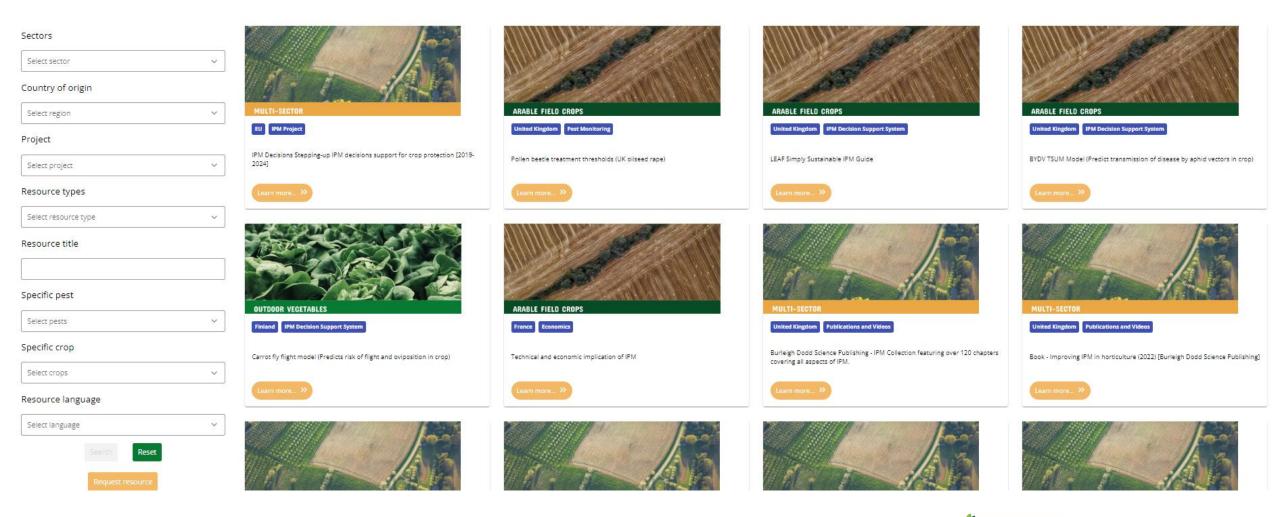
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FINAL WEBINAR – 12 March 2025 – 14:00-17:00 CET





IPMWORKS TOOLBOX



Project.

Resource language Resource origin

Resource type

Contact phone

Find out more

Project Information
 IPM Platform

@ IPM Decisions

IPM Decisions short project description.pdf

0 1

Watch later Share



MULTI-SECTOR

https://www.platform.ipmdecisions.net/

IPM Decisions English

IPM Project

20. 12. 2023.

RSK ADAS Ltd Mark Ramsden@adas.co.uk

IPM Decisions Stepping-up IPM decisions support for crop protection [2019-2024]

Short	summary

The IPM Decisions Platform will give farmers and advisers across Europe access a large number of IPM decision support systems. User will access the Platform via a tailored 'dashboard', specific to their requirements. The dashboard will act as the user's control panel to collate information and manage DSS applications.

Farmers & Advisors - benefit from a simple 'click and go' platform to find and run decision systems which have been evaluated for use under their regional conditions. Access to relevant weather data is provided though the platform. The extent of validation of each DSS is transparent to enable informed choices.

Applied researchers - benefit from access to decision systems, weather data, a data set of field pest observations from large numbers of sites and seasons, and a library of methods for evaluation and comparison of benefits. Academic researchers - can to adapt decision models to their regional conditions, and rapidly evaluate the effect of the changes using the library of methods for evaluation and comparison of benefits. System developers - benefit by a shop window to access more end users, and tools and resources to accelerate DSS innovation.

The Platform supports a wide range of DSS which are either free to use or commercial pay to use.

The first link below is to the official EU project information site on CORDIS The second link is to the IPM Decisions Platform The third link is to the IPM Decisions project website

The video provides a quick demonstration of the platform

I IPM Decisions Platfe

tch on 💽 YouTube

Sectors	© © © ©
Regions	EV CONTRACTOR OF CONT
Relevant pest(s)	Atternantia kast blight: (Atternantia kast spot. Apple fruit moth) Earley Yellew Oreart Virus) (Bird cherry-oat aphld) Cabbage fry cabbage stam fles keetle. Carrot fly Coding moth) Cultworm (Termip moth) (Stamondback moth) Early blight of potatoes (English grain aphld) Grange Wheat Blostom Midge. (Peach-potato aphld) (pollen bestle Potato late blight: (Potato lasf blight: Saddle gall midge) Septoria leaf tritick blotch) Silver Y moth) (Smail cabbage white) (Allow rust
Relevant crop(s)	Oliseed rape Spring Earley Winter barley Durum wheat (spring) Durum wheat (winter) Soft wheat (spring) Sof wheat (winter Spring rye) winter rye Cats Malax Poteo Sugar beet Cabbage Carrota Parnips Celery Onion Apple Pear Olives Grapes









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Get trained in Integrated Pest Management!!



The H2020 IPMWORKS has launched its e-learning modules

HOME ADD RESOURCE E-TRAININGS IPMWORKS PROJECT HELP AND SUPPORT ADMIN LOGIN



H2020 IPMWORKS e-learning training modules

The IPMWORKS e-learning modules have been prepared based on successful experiences within the project network, including technical aspects of IPM strategies, farm performance or co-innovation and method for farm hub coaching, targeting both farmers and advisers. Modules on agroecosystem approach, on holistic pest management examples and on the key topic of policies are also included to frame the technical ones.

The materials that compose the modules focus on IPM technical aspects, IPM efficiency to gain sustainability, and methods for coaching farmers towards the adoption of cost-effective IPM strategies, based on both existing IPM resources and holistic management examples produced by the IPMWORKS network. These materials consist of, on the one hand, presentations reflecting the theoretical content and the selected resources for each theme, and, on the other hand, recorded videos of the lectures of these presentations.

These module packages can be adapted to national needs and local contexts, since they have been produced to be used like an interactive training catalogue. In line with this purpose, the modules are divided in short chapters, enabling the access to specific chapters according to the national needs and local contexts of the modules' users.







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IPMWORKS e-learning modules

H2020 IPMWORKS e-learning training modules

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Module 1: Agrosystem/Agroecosystem: Concepts and theory. Holistic approach to IPM	~
Module 2: Plant health risk challenges and Policy context in the EU	Coordinated by
Module 3: Integrated Weed Management (IWM)	Based on the expert
Module 4: Integrated Disease Management (IDM)	31 project partners
Module 5: Integrated Invertebrate Pest Management (IIPM)	
Module 6: Holistic IPM examples	46 chapters / videos (15-20')
Module 7: Assessment of an IPM system	A topic explained by an IPMWORKS expert ~
Module 8: Soft skills for facilitating interactive learning and demonstration on IPM	+ re-usable presentations 🗸 🗸





IPMWORKS e-learning modules

Module 4: Integrated Disease Management (IDM)

Module 4 focuses on diseases management and on the challenges we are facing in agriculture, considering three main aspects, which are climate change, the need and request to reduce the use of plant protection products, and last but not least, the resistance management. The module gets into the context of Sustainable Agriculture and applied epidemiology for disease control. In addition, it presents 3 cases studies: Arable crops (wheat), Horticultural crops (processing tomato) and Perennial crops (grapevine). This module introduces the multiple modelling approach Decision Support Systems (DSSs). The content present different IPM tools for the following crops / diseases with 3 cases studies: i) Wheat / Fusarium head blight, ii) Tomato / Downy mildew, Alternaria leaf blight and Bacteriosis and iii) Grapevine / Downy mildew.

Module leader: Tito Caffi (UCSC).

4.1. Current challenges in disease control

- 4.2. Disease management in the context of Sustainable Agriculture
- 4.3. Applied epidemiology for disease control
- 4.4. Case study. Arable crops: wheat
- 4.5. Case study. Horticultural crops: processing tomato
- 4.6. Case study. Perennial crops: grapevine



MULTI-SECTOR

Project	IPM WORKS
Resource language	English
Resource origin	https://ipmworks.net/toolbox/en/#/e training
Resource type	Training
Organization name	
Contact email	nicolas.munier-jolain@inrae.fr
Contact phone	
Citation (DOI)	
Creation date	19. 01. 2024.

IPMWORKS e-learning training: 4.1 Current challenges in disease control

Short summary

IPMWORKS e-learning Module 4: Integrated Disease Management (IDM).

Module 4 focuses on diseases management and on the challenges we are facing in agriculture, considering three main aspects, which are of climate change, the need and request to reduce the use of plant protection products, and last but not least, the resistance management. The module gets into the context of Sustainable Agriculture and applied epidemiology for disease control. In addition, it presents 3 cases studies: Arable crops (wheat), Horticultural crops (processing tomato) and Perennial crops (grapevine). This module introduces the multiple modelling approach Decision Support Systems (DSSs). The content present different IPM tools for the following crops / diseases with 3 cases studies: i) Wheat / Fusarium head blight, ii) Tomato / Downy mildew, Alternaria leaf blight and Bacteriosis and iii) Grapevine / Downy mildew.

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4.1. Current challenges in disease control 4.2. Disease management in the context of Sustainable Agriculture 4.3. Applied epidemiology for disease control 4.4. Case study. Arable crops: wheat 4.5. Case study. Horticultural crops: processing tomato 4.6. Case study. Perennial crops: grapevine

The IPMWORKS e-learning modules have been prepared based on successful experiences within the project network, including technical aspects of IPM strategies, farm performance or co-innovation and method for farm hub coaching, targeting both farmers and advisers. Modules on agroecosystem approach, on holistic pest management examples and on the key topic of policies are also included to frame the technical ones.

All e-learning training modules can be found in the IPMWORKS Toolbox training tab.

Resources:

- Attachment 1: PDF of Chapter 4.1 training slides

- Link: IPMWORKS Training page, providing links to all training modules

- YouTube Link: A recording of Chapter 4.1: Current challenges in disease control



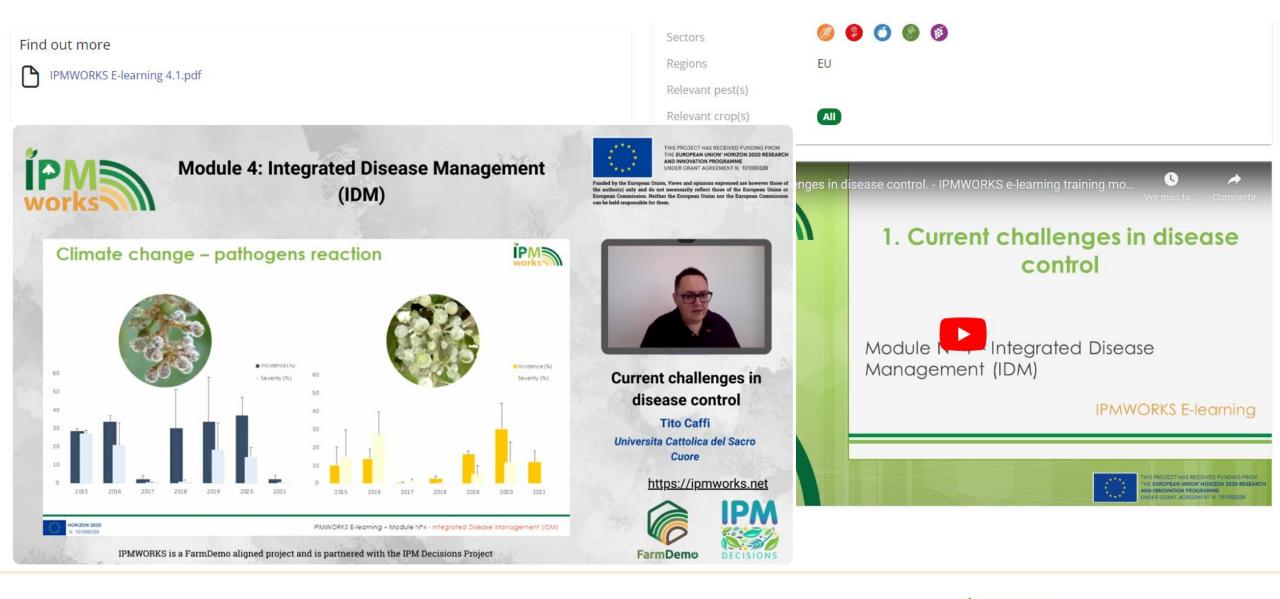
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IPMWORKS e-learning modules





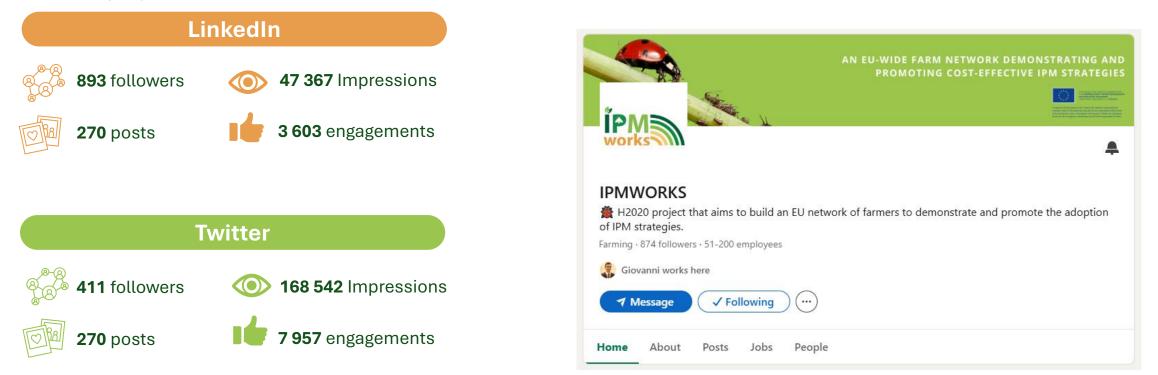
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IPMWORKS Dissemination channels

Social media

Sharing: News regarding demo events, vídeos, sharing dissemination materials & toolbox resources, related projects & initiatives



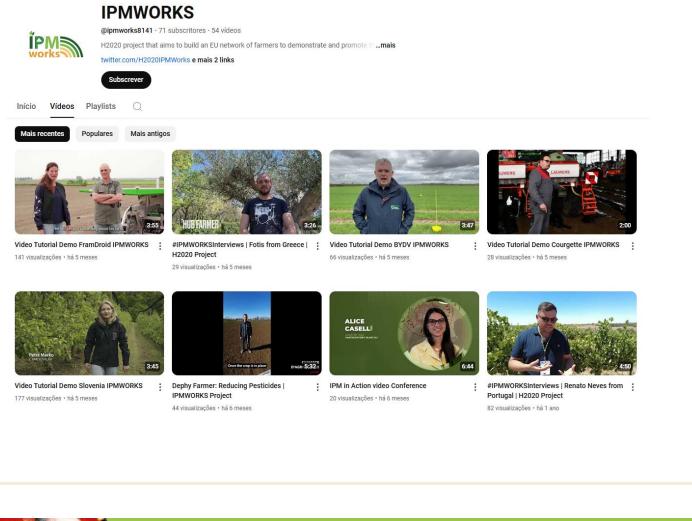






IPMWORKS Dissemination channels

Video materials



In total we have:

- 22 videos presenting Hub Coaches
- 5 videos IPM in a minute
- 15 vídeos IPMWORKS Interviews
- 46 vídeos Training modules
- 14 vídeos IPMWORKs Tutorials
- 5 other videos





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FINAL WEBINAR - 12 March 2025 - 14:00-17:00 CET Do we still need IPM?



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Joaquín Balduque | CIHEAM Zaragoza | joaquin.balduque@iamz.ciheam.org





FINAL WEBINAR - 12 March 2025 - 14:00-17:00 CET Do we still need IPM?

HE EUROPEAN UNION' HORIZON 2020 RESEARCH AND INNOVATION PROGRAMME ER GRANT AGREEMENT N. 101000339

The IPM Decisions platform: a unique resource for **Decisions Support Systems dedicated to IPM**

Mark Ramsden | ADAS





Co-funded by the Horizon 2020 Framework Programme of the European Union under grant agreement No 817617

Reducing pesticide use, without adverse impact on productivity and competitiveness, requires two steps:



Reducing the need for pesticides by integrating nonchemical control measures



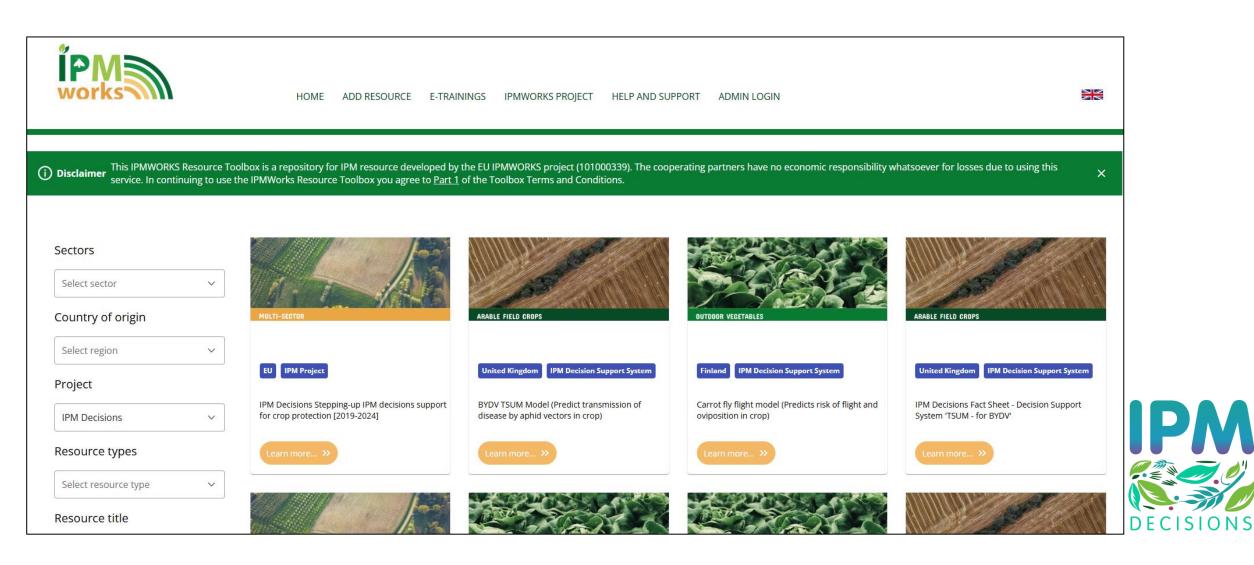
Treating crops with pesticides according to the reduced need.











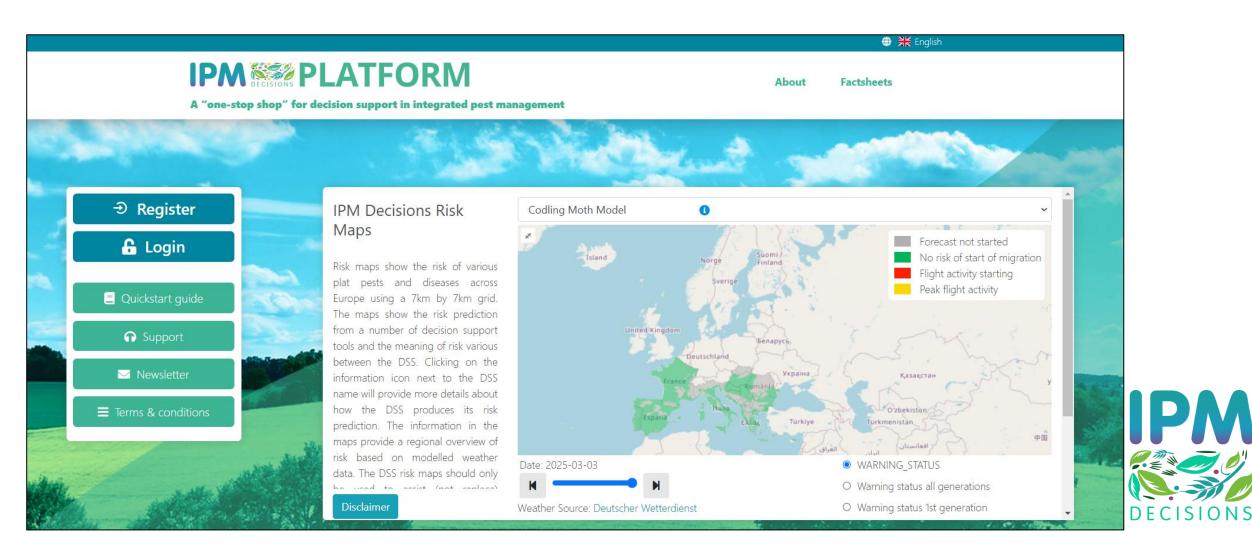


FINAL WEBINAR – 12 March 2025 – 14:00-17:00 CET



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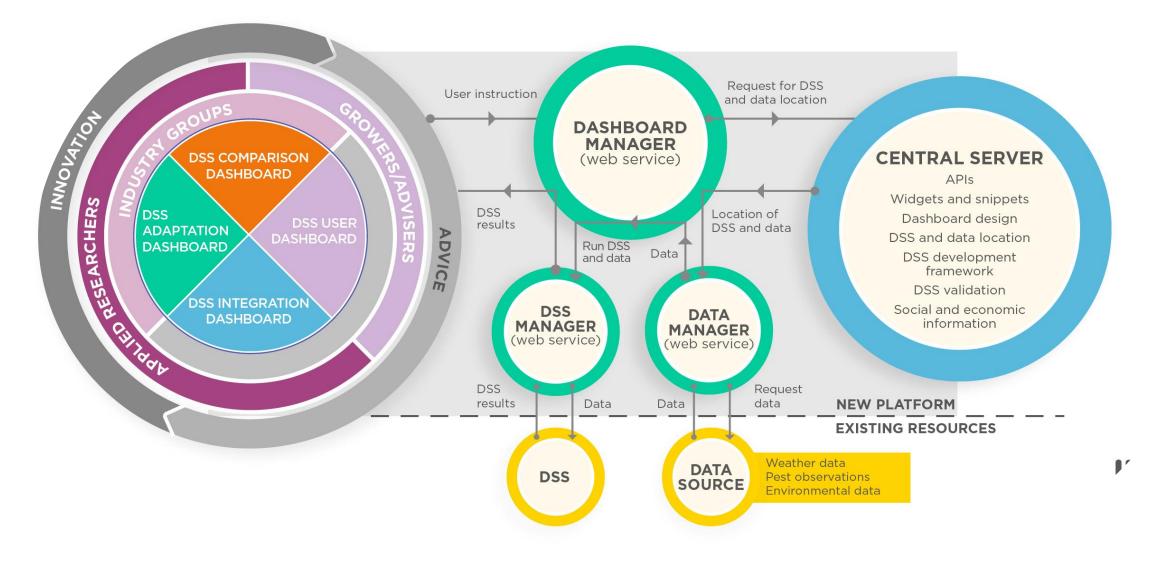
AND INNOVATION PROGRAMME UNDER GRANT AGREEMENT N. 10100033







Overview of the IPM Decisions Platform



Overview of the IPM Decisions Platform

			🖶 💥 Eng	plish ipmdecisions Account Manager		
FARM MENU	DSS Use Dashboard			O Add Farm		
Farm Management SSS Use Dashboard External Link DSS Dashboard DSS Comparison Dashboard						
DSS Adaptation Dashboard	Oilseed rape Pollen Beetle	Pollen	Beetle Model 1	Download Seasonal Data 👔	IPM	
		1 DSS Information			2000 (A. 1997)	
	Start Date: dd/02/2025 🗂 End Date:	ld/mm/ DSS Name	Pollen Beetle Model			
	Risk status	DSS Purpose	Estimates the risk of pollen beetle migration			
This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 817617. Learn more at <u>https://sc.europa.eu</u>	High Medium Low	DSS Model ID	MELIAE			
	28000010300103001050005000000000000000000	Description	resulting in withered buds and reduced pod set	THE PEST: Pollen beetle (Meligethes spp.) adults are approximately 2.5 mm, metallic greenish-black. Females bite oilseed rape buds and lay their eggs inside. Adults and larvae attack buds and flowers, resulting in withered buds and reduced pod set. In oilseed rape, adult and larval feeding can lead to bud abortion and reduced pod set. However, damage rarely results in reduced yields for winter crop: Spring crops are more vulnerable, as the susceptible green/yellow bud stage often coincides with beetle migration.		
		ν, <i>Θ</i> α,	be used to evaluate risk to crop. THE MODEL: Daily maximum air temperature is THE PARAMETERS: The model uses Daily maxim REGION: This DSS was adapted from work carri ASSUMPTIONS: Only to be used during Oilseed	if large numbers of pollen beetle migrate into the crop during green bud stage. Th s used to predict Migration Risk. The default value of 15 degrees celsius is used, as mum air temperature ied out in the UK, and is considered applicable, but not yet validated in, Belgium, Li d rape growth stages 51-59. This model is a simplification of a more detailed mode gement Science 72, 609-317. https://doi.org/10.1002/ps.4069	that is the temperature advised in the UK at which pollen beetles will fly. uxembourg, Netherlands, France, Germany, Rep. Ireland, and Denmark.	
		Authors : Name (Organisation)	Hannah Griffiths (ADAS)			
	This platform is making DSS availa below the legend on the DSS Use o		IPM Decisions			
		Source organisation	ADAS, England			

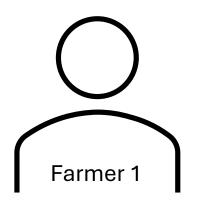
Take a look...

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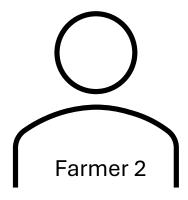


www.platform.ipmdecisions.net/log



- Advanced, holistic IPM strategy
- Low use of pesticides
- Likes using technology
- Likes testing new ideas on farm
- Interested in novel approaches





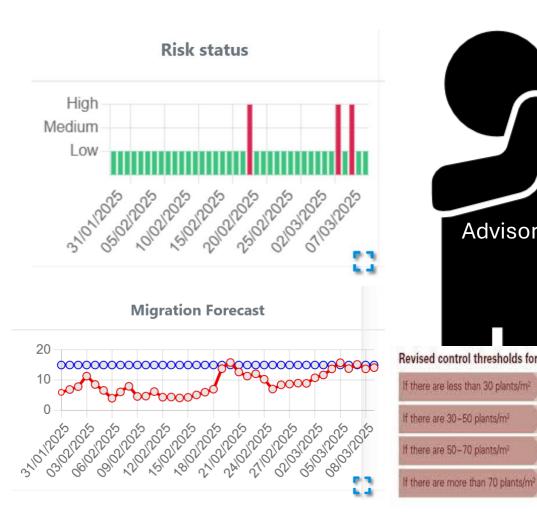
- Limited IPM strategy
- High use of pesticides
- Wants to minimise risk
- Keen to reduce inputs but not at the cost of yield













beetles per plant

beetles per plant

the threshold is 7 pollen

 \bigcirc

Farmer 2





Limited IPM strategy

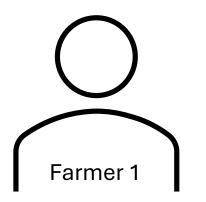
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- High use of pesticides
- Wants to minimise risk
- Keen to reduce inputs but not at the cost of yield

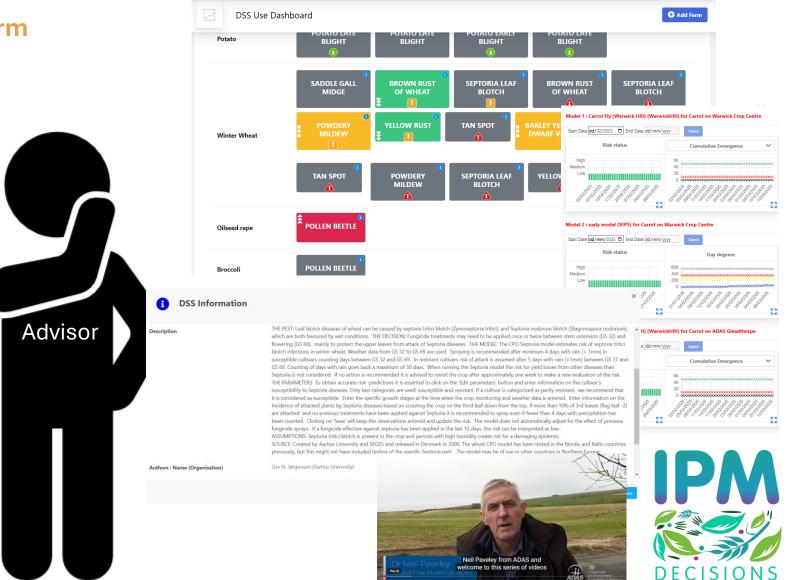








- Advanced, holistic IPM strategy
- Low use of pesticides
- Likes using technology
- Likes testing new ideas on farm
- Interested in novel approaches







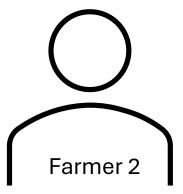


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Farmer 1

- Advanced, holistic IPM strategy
- Low use of pesticides
- Likes using technology
- Likes testing new ideas on farm
- Interested in novel approaches





- Limited IPM strategy
- High use of pesticides
- Wants to minimise risk
- Keen to reduce inputs but not at the cost of yield

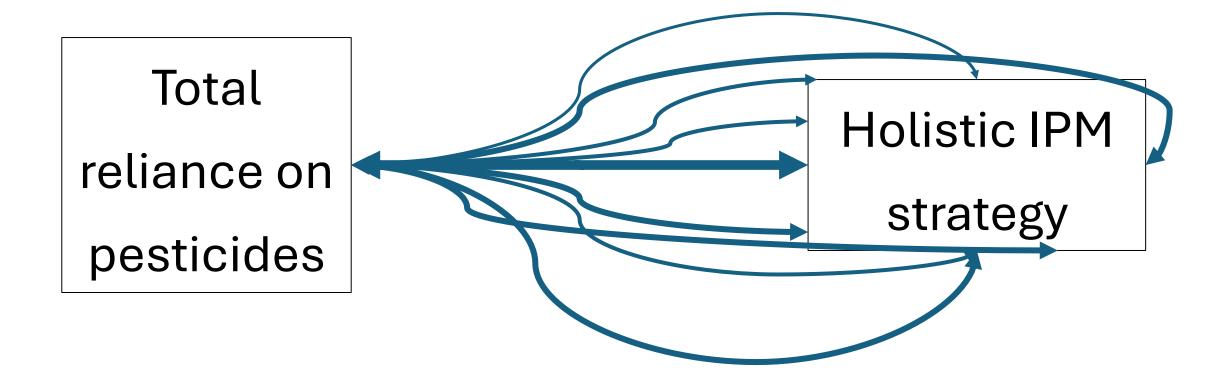








Integrated Pest Management Tools



Boosting IPM through Decision Support Systems (DSS)

Access to IPM DSS

• Support research and development of novel IPM DSS

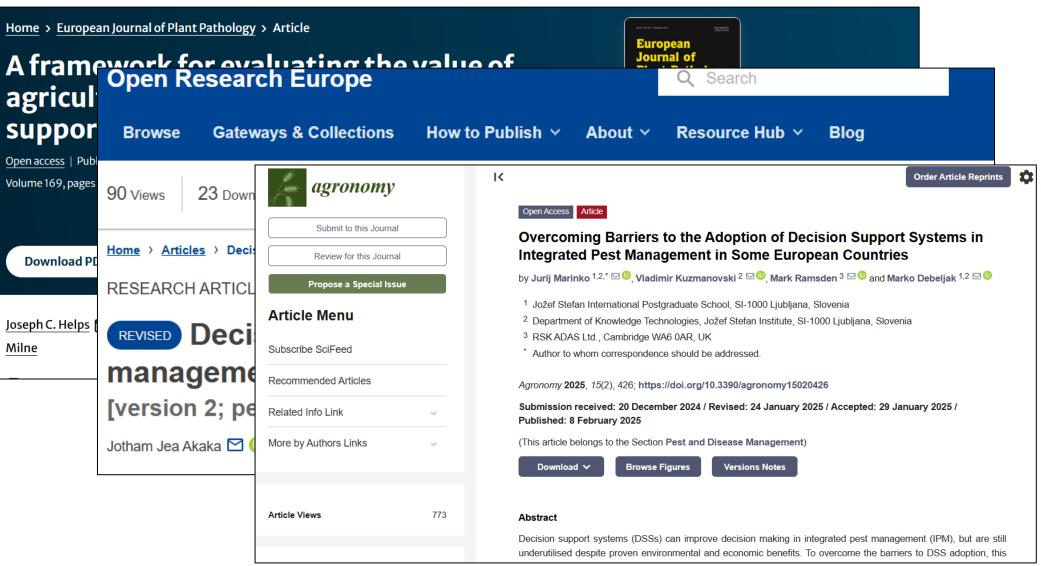
Validation of IPM DSS

• Address technological and socioeconomic barriers to farmers and advisors IPM DSS consultation

Demonstration of IPM DSS

• Support wider demonstration of IPM DSS in practice to farmers and advisors

Further reading











IPM

DECISIONS

Publication links



Jørgensen, L.N., et al. (2020) Validation of risk models for control of leaf blotch diseases in wheat in the Nordic and Baltic countries. European Journal of Plant Pathology, 157, 599-613

Midingoyi C.A., et al. (2020) Reuse of process-based models: automatic transformation into many programming languages and simulation platforms. In silico Plants, 2(1)

Holst N. (2020) Mathematical models. In: Chantre G.R. & González-Andujar J.L. eds. Decision Support Systems for Weed Management. Berlin, Springer Verlag, 3-23

Andersson, B., et al. (2022) Comparison of models for leaf blotch disease management in wheat based on historical yield weather data in the Nordic-Baltic region. Agronomy for Sustainable Development 42-44 Jørgensen, L. N. et al. (2021) Using risk models for control of leaf blotch diseases in barley minimises fungicide use – experiences from the Nordic and Baltic countries. Acta Agriculturae Scandinavica, Section B — Soil & Plant Science 71:247-260 Jalli, M, et al. (2020) Yield increases due to fungicide control of leaf blotch diseases in wheat and barley as a basis for IPM decision-making in the Nordic-Baltic region. European Journal of Plant Pathology Ramsden, M. and O'Driscol A. (2022) Advances in decision support systems (DSS) for integrated pest management in horticultural crops. In book: Improving integrated pest

management in horticulture.

Ramsden, M., et al. (2023) Advances in pest risk assessment techniques focusing on invertebrate pests of European outdoor crops. In book: Advances in monitoring of native and invasive insect pests of crops.

Leybourne D., et al. (2023) Online decision support systems, remote sensing and artificial intelligence applications for wheat pest management. In book: Advances in understanding insect pests affecting wheat and other cereals

Levionnois S., et al. (2023) Modelling the impact of proportion, sowing date, and architectural traits of a companion crop on foliar fungal pathogens of wheat in crop mixtures. Phytopathology.

Marinko J., et al. (2023) Incentives and barriers to adoption of decision support systems in integrated pest management among farmers and farm advisors in Europe. International Journal of pest Management

Midingoyi, C.A., et al. (2023) Crop modeling frameworks interoperability through bidirectional source code transformation. Environment Modelling & Software

Akbarinia R. et al (2023) Life Science Workflow Services (LifeSWS): motivations and architecture, Transactions on Large-Scale Data- and Knowledge-Centered Systems, 14280, pp.1-24.

Marinko, J., et al. (2024) Typology for Decision Support Systems in Integrated Pest Management and Its Implementation as a Web Application. Agronomy

Akaka JJ, García-Gallego A, Georgantzis N et al. Decision Support Systems adoption in pesticide management [version 1; peer review: 2 approved with reservations]. Open Res Europe 2024, 4:142

Helps J. et al (2024) A framework for evaluating the value of agricultural pest management decision support systems.

Software links

IPM Decisions Platform - https://www.platform.ipmdecisions.net/

- IPM Decisions GitHub: https://github.com/H2020-IPM-Decisions
- Weather service source code: <u>https://github.com/H2020-IPM-Decisions/DSSService</u>
- DSS Service source code: <u>https://github.com/H2020-IPM-Decisions/WeatherService</u>
- DSS MetaData File editor: https://ipmdecisions.nibio.no/editmetadata/

IPM Decisions DSS Factory

- Install OpenAlea <u>https://github.com/openalea</u>
- Install Visualea and dependencies <u>https://github.com/openalea/visualea</u>
- Example <u>https://github.com/H2020-IPM-</u> <u>openalea/DSS/blob/dss_integration_tutorial/example/model_integration.ipynb</u>

IPM Advisor Tool: <u>https://ipmadviser.ijs.si/</u>

IPMWORKS Toolbox: https://ipmworks.net/toolbox/en/#/





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THANK YOU!

Mark Ramsden | ADAS | ipmdecisions@adas.co.uk



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Recommendations for successful exploitation of IPM networks to scale IPM adoption

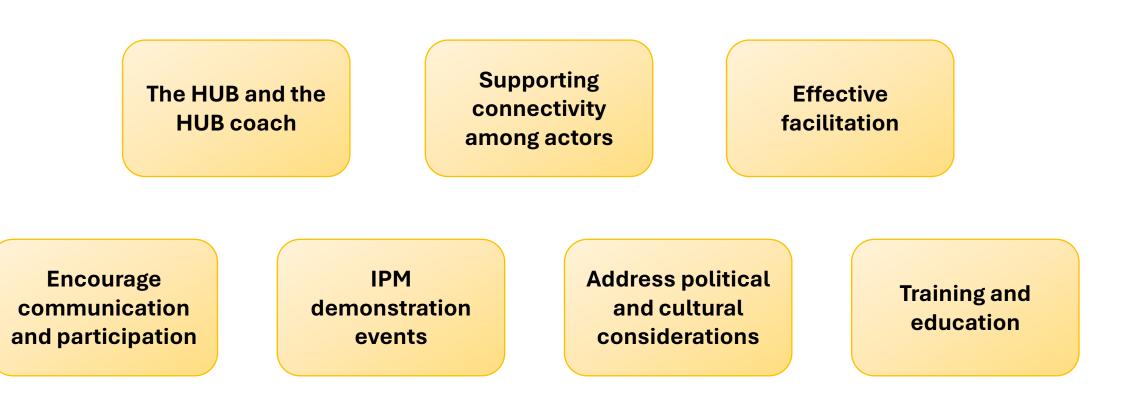


Areas of recommendations

An EU-wide farm network demonstrating and promoting cost-effective IPM strategie

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The HUB and Hub coach

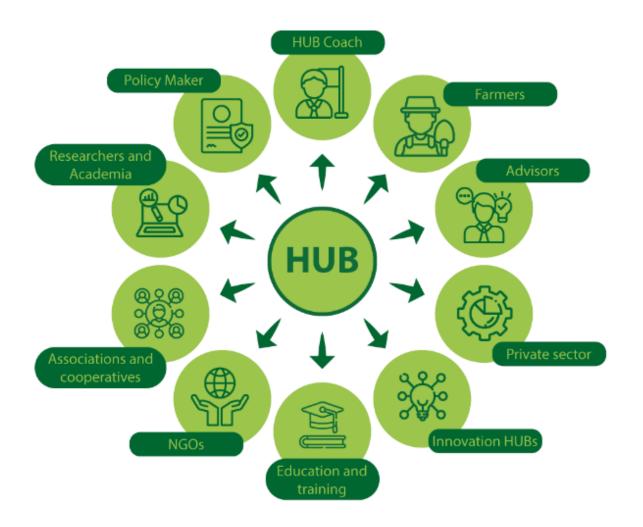


-wide farm network demonstrating and promoting cost-effective IPM strategies

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Effective formation of IPM demo HUBS





Create a strong community: Regular meetings with neighboring IPM actors foster knowledge sharing, problem-solving and social support, leading to stronger farming community through collaboration.



Ensuring HUB sustainability: Focus on **long-term goals, consistent event themes, and clear development pathways** while adapting to members' needs for skill enhancement and effective IPM promotion.



Boosting IPM adoption: Highlight the long-term environmental benefits of IPM, acknowledge farmers' efforts, and leverage their **growing awareness of sustainability to encourage adoption**.

Supporting good connectivity





Personal and direct communication: Establishing personal one-on-one communication with farmers and HUB members can build trust, provide a safe space for sharing challenges, and tailor support to their needs.



Reaching local networks: Integrate existing local and regional farmer groups into the network to leverage their experience and connections, enhancing the impact and reach of sustainable agricultural practices without needing to increase the number of events.



Build relations with advisory services, private sector and other projects: Leverage agricultural advisors and companies involved in IPM sector within the HUB network for their **technical expertise** and valuable role as trusted links between farmers and sectoral actors, enhancing support and confidence in best practices.

Supporting good connectivity









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Effective facilitation



works

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- Being a moderator more than a leader
- Use proper language and good translations
- Developing audiovisual materials
- Frequent communication with network members
- **Continuous mentoring**
 - Surveys and polls

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Communication and participation



An EU-wide farm network demonstrating and promoting cost-effective IPM strategie

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- Culture of dialogue
- Knowledge exchange
- **Collaborative planning**
- process
 - **Provide solid information**

- **Encourage participation**
- 🏆 🔹 Suitable locations
 - Create a safe space
 - Facilitation tools and
 - methods

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IPM demo-events



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How to run a successful demonstration event: Prepare and manage demo events with a strategic plan, including goals, location, audience and IPM strategies, to effectively showcase IPM practices and maintain flexibility for adapting to changes and ensuring stakeholder engagement.

- **Preparation**
- **Content definition**
- Encourage interactions
- Advertise the event

- Involve rigth actors
- Share Good practices and successful IPM stories
- Timing
- IPM approach to demo-events

Addressing external factors



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Approaching political aspects and economic concerns: Recommend advocating for regional or local government support to mitigate production loss from IPM measures, providing tailored advice based on crop type and conditions and organizing dedicated events to share and clarify funding and regulatory information with farmers.



Cultural considerations Personal and direct communication: Facilitators should understand local cultural nuances to engage farmers effectively, address collaboration barriers, and leverage younger farmers' openness to new practices.

Training and education





Addressing the education gap in IPM: To address the IPM knowledge gap, integrate IPM-focused content into agronomy and agricultural training programs.



Engagement of agri-food chains and consumers: To advance IPM adoption, all food chain stakeholders must engage in education and advocacy, sharing the responsibility for promoting sustainable pest management.



Capacity building programs: Engagement in training initiatives is crucial for gaining expertise in IPM practices and enhances facilitators' ability to manage stakeholder groups effectively, fostering collaboration and continuous learning in agriculture.



Bringing technology and innovation close: Integrating digital and technical skills into IPM training programs, leveraging online platforms for outreach, and embracing innovative technologies in crop management are crucial for effective implementation and dissemination of IPM measures.



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Ángela Muñiz Varela – amvarela@feuga.es Rebeca Díez Barca – rdiez@feuga.es







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The foreseen future of IPMWORKS

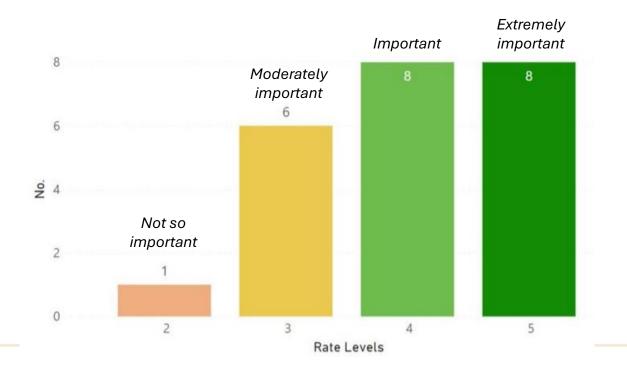
Nicolas Munier-Jolain | INRAE | Coordinator

Continuation & expansion of IPMWORKS Nicolas Munier-Jolain

- IPMWORKS 2020-2024 : the proof-of-concept
- Target for medium term

 \approx 300 Hubs, \approx 4.000 farmers throughout Europe

22 hubs + 5 national networks + new welcomed hubs (including launched from other initiatives)



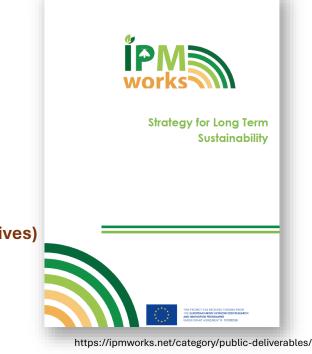
Question to IPMWORKS Hub Coaches How important is it to have a European network to continue the work undertaken by IPMWORKS?



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Continuation & expansion of IPMWORKS Nicolas Munier-Jolain

- IPMWORKS 2020-2024 : the proof-of-concept
- Target for medium term
 ≈ 300 Hubs, ≈ 4.000 farmers throughout Europe
 22 hubs + 5 national networks + new welcomed hubs (including launched from other initiatives)





- Self-funding' of each Hub
 Budget : adviser half-time, travel, functioning, rewards to farmers
 Attract CAP funding dedicated to Farm Demo whenever possible !
- A EU budget for the coordination of the network Working plan, capacity building, peer-to-peer knowledge exchange, communication, data collection, data analysis

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THANK YOU!

Nicolas Munier-Jolain INRAE | nicolas.munier-jolain@inrae.fr





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Facilitation : Calypso Picaud (CA Occitanie)

Use the Q&A button to ask questions, and to vote for your preferred questions (the most voted questions will be asked first !)





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Short Break

Sessions 2 – Interactive Workshop – starts at 16:00 CET

Facilitation : Joaquin Balduque (CIHEAM Zaragoza)