



# IPM adoption in my hub

Facilitation approach and progress made in IPM adoption



KUJAWSKO-POMORSKI  
OŚRODEK DORADZTWA ROLNICZEGO  
w Minikowie

## My hub



**Josip Zubac**  
Minikowo 1, 89-122  
Minikowo  
**POLAND**

### PRESENTATION OF THE HUB COACH ORGANISATION

- We provide advice in the context of cultivation
- Seeking new solutions for integrated production
- Promotion of good practice

### OBJECTIVES AND MOTIVATIONS OF THE FARMERS

- Reduction in the use of plant protection products,
- Alternative methods of plant protection,
- Reduction of production costs with unchanged yields,
- Innovation, agriculture 4.0

### DRIVERS

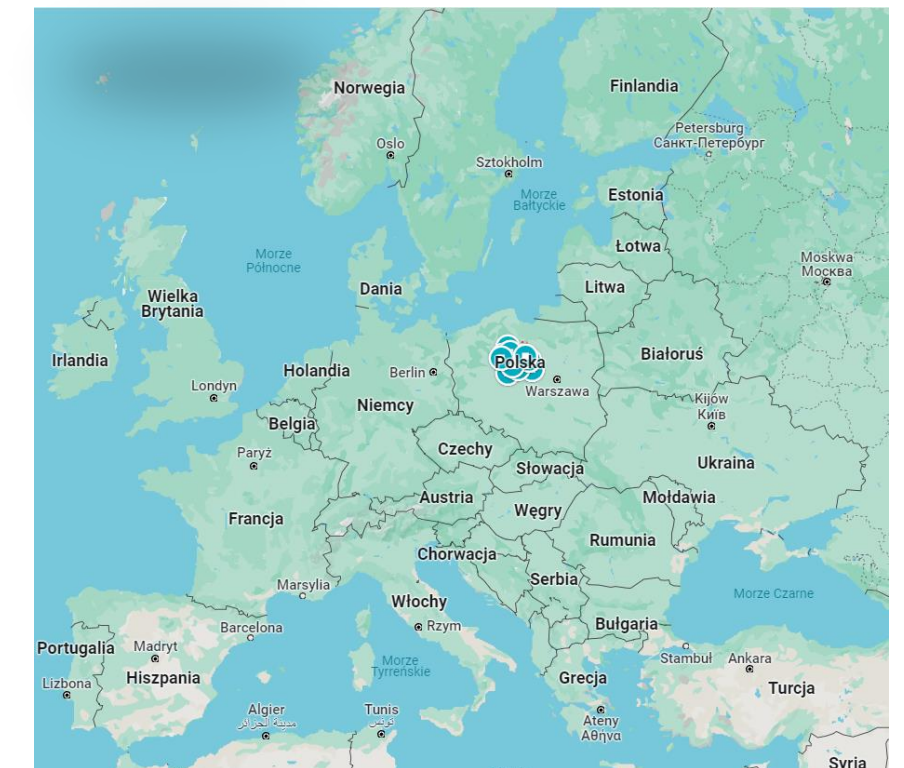
- Desire to increase farm profits
- Increasing the number of biotypes resistant to active substances
- Social pressure to protect the environment
- Increased social awareness of healthy food

### THE HUB

- 15 farms in the Polish IPMWORKS network
- 2 organic farms, 13 conventional farms
- mainly cereal crops (wheat, triticale, rye), maize, oilseed rape and legumes, sugar beet
- Predominant weeds: cereal broom, cornflower, field bindweed, volunteer oilseed rape, white quackgrass
- Main pests: aphids, hemiptera, cabbage leafminer
- Main diseases: powdery mildew, fusariosis, sclerotial rot, weevil

### BARRIERS

- The need to use technically advanced machinery
- Risk of crop failure
- Low effectiveness of alternative plant protection products (technical, environmental, economic, social)



# IPM challenges and results

## IPM Challenges

### What were the main IPM challenges?

- Reduction of pesticides use
- alternative methods in cultivation and plant protection
- increase in profitability of production
- doubts about the effectiveness of alternative methods

## The hub's results

### What progress has the hub made on these challenges ?

- increased interest in integrated production
- increased knowledge of agrophages and their rational control
- raised interest among public administrations

### What issues still need to be addressed ?

- improving knowledge of microbiological products
- improving knowledge of rotational crop fertilization
- agriculture 4.0

### How are the hub farmers going to proceed ?

- maintaining contact with farmers who are currently in the IPM network, deepening cooperation with them
- involving new members in the network and presenting the results so far
- promoting effective agricultural practices
- organising trainings, workshops, conferences, demonstrations

## Key conclusions

- **Appropriate relationship building between farmers in the hub**
- **Actively listening and obtaining information**
- **Motivating farmers in the hub for IO activities**
- **Organising work and managing time appropriately**
- **Looking for new solutions**
- **Organising meetings and demonstrations**



# Facilitation approaches

## What is the issue the hub works on more precisely?

- partial or total reduction in the use of herbicides in plant cultivation
- finding the best method to control weeds at different stages of plant growth and under varying weather conditions

## How did you proceed? What did you do?

- conducting workshops with IO
- lectures on mechanical weed control
- lectures led by professors with many years of experience on weed control in ecology



## Individual facilitation

- control of manure fermentation
- Tailored management of weeds on the farm
- the establishment of a suitable crop rotation in which biodiversity is present

## Collective facilitation

- indication of the emergence of weeds
- information on optimum weed control conditions
- soil pH as a factor in weed control

## Workshops and lectures to implement mechanical weed control

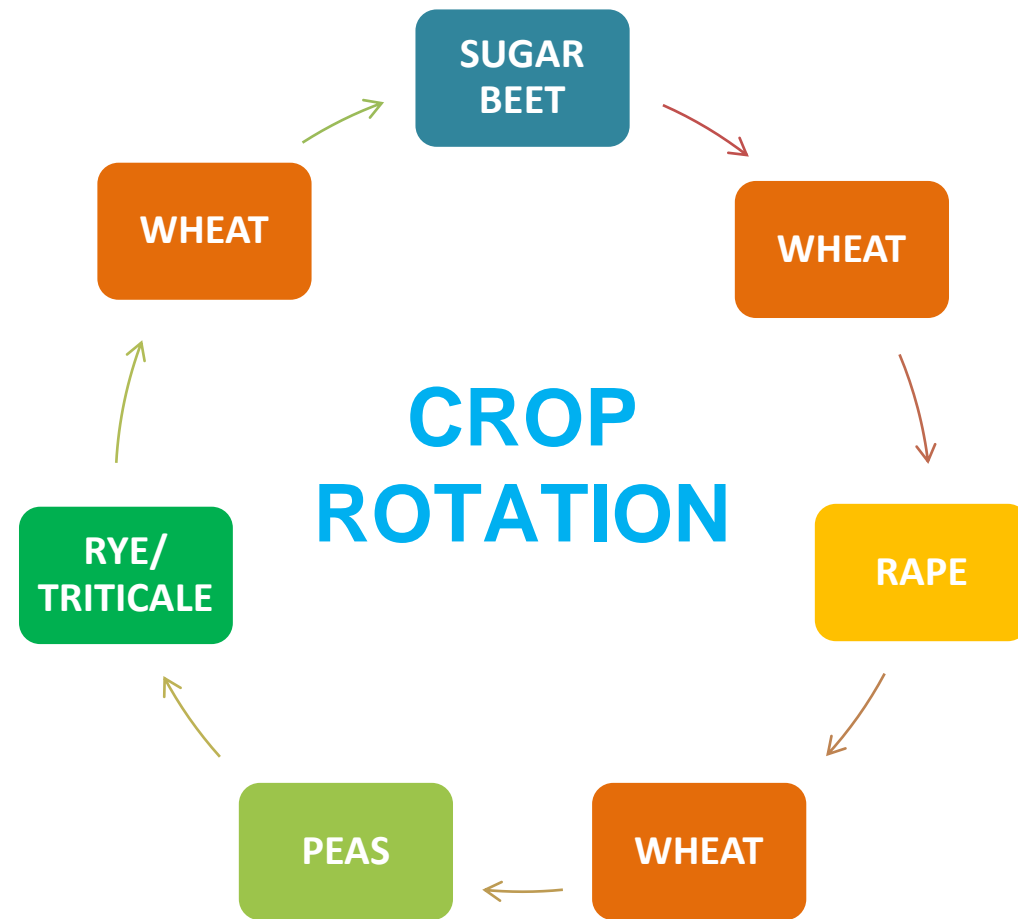
## What conclusions can you draw?

- mechanical weed control can be as effective as the use of herbicides
- reduced use of pesticides

## My tips for making it work

- raising farmers' awareness of weed infestation in crops
- demonstrations of non-chemical weed control on demonstration farms and in experimental plots

# IPM adoption & pesticide use



“ IPM methods help us to combat pests which, through intensive production, have developed defence mechanisms against active substances. In modern agriculture, mechanical or biological methods have to be taken into account more than chemical methods. The IPMWORKS network helps us to gain new experience and exchange insights.



“ Farmers are currently becoming more involved in the introduction of IO on their farms. Current problems with weed resistance to various herbicide active substances are forcing them to find alternative methods of weed control and more. Farmers who are part of the IPMWORKS network are keen to exchange their experiences and lessons learned about IPM.

- ✓ well-selected crops
- ✓ no-till farming
- ✓ Intercropping
- ✓ leaving crop residues on the field
- ✓ mechanical weeding
- ✓ use of biological products