WP8

WP7



Deliverable 1.5: AWM repository (version 1)

Grant Agreement number: 101083589						
Start date of the project: 01/05/2023	End d	late of t	the pro	ject : 30	/04/202	7
Deliverable due date: 30/04/2024	Date	of deliv	ery: 30	/04/202	4	
Classification: Public						
Associated Work Package(s)	WP1	WP2	WP3	WP4	WP5	WP6
	\checkmark					

Version History

Version number	Implemented by	Notes
1.0	USC	Supported by UC

Table of contents

Introduction	2
What is the AWM repository?	3
AWM repository design	4
Description	4
Herbicide usage maps	5
AWM practices	6
Search tool	8

Abbreviation	Full title
AWMN	Agroecological Weed Management Network
AWM	Agroecological Weed Management
LL	Living Lab





Introduction

The GOOD website is the main hub to share knowledge and disseminate the activities of the project with stakeholders. The url is: <u>https://www.goodhorizon.eu/</u>. The layout of the website is described in D7.2. A second page will be developed in due time to become the Platform of GOOD and serve as the free "One-Stop-Shop" for agroecology and Agroecological Weed Management (AWM). As described in D7.2, it will host the (i) e-learning module, (ii) the forum for the Agroecological Weed Management Network (AWMN) and a dynamic Living Labs page and gallery, (iii) the decision support system of GOOD, the AWM Toolbox, and (iv) the AWM repository.

GOOD will periodically update the content of the dynamic AWM repository, while all pages of the repository will be transferred to the Platform (second website) once it is launched. Two important milestones are depicted in the following Table.

Table 1: Milestones related to	o the project's AWM	repository
--------------------------------	---------------------	------------

Content	Due date	Deliverable
First version of the AWM repository (in the GOOD website)	M12 (April 2024)	D1.5
Second and final version of the AWM repository (in the GOOD Platform website)	M36 (April 2026)	D1.9

The updated layout of GOOD's PLATFORM (including the AWM repository) is described in Table 2.

	Home page of the PLATFORM							
Main sections	ABOUT	AWM repository	E-LEARNING MODULE	AWM TOOLBOX	NETWORK	CONTACT		
Sub-sections (content)	Informatio n about the technical details of the AWM Toolbox (guidelines methodolo gy etc.)	Information and educational content on current and agroecological weed management practices	Webinars, podcasts, peer- to-peer learning Best Practices	It is a Decision Support System for cover crops sowing and implementation of combinations of AWM solutions. The users need to select options from drop- down lists, and they will receive specific recommendations depending on pre-fixed algorithms/guidelines				
			Content on the	e main page				

Table 2: Layout of GOOD's platform, home page, footers, main and sub-sections

- Main sections and subsections
- *Slogan* (e.g., An Agroecological Weed Management Network for the promotion of the adoption of sustainable weed management strategies) and *Return to the main GOOD website* button
- Teaser video for the Living Labs
- Footer





What is the AWM repository?

"A repository for current and agroecological weed management practices and herbicide use"

The project is committed to provide the AWM repository of current weed management practices to raise farmers' awareness of the options available to help them improve their decision-making and increase their confidence to adopt new AWM practices.

The repository brings together various agri-food value chain actors and identifies the real needs of the AWM sector. Specifically, GOOD targets to provide a robust AWM repository to farmers, advisors and consultants, industry, research and academia.

The exploitation of the AWM repository by the different stakeholder groups remains a primary focus. **Farmers**: exploitation of the know-how about the current AWM **Advisors**: exploitation of knowledge for better farm advice **Industry**: identification of new business opportunities **Research & Academia**: Exploitation of the scientific knowledge under new research projects and for

Research & Academia: Exploitation of the scientific knowledge under new research projects and for educational/training purposes

WP1 aims to co-create knowledge on current weed management practices and AWM in agro-ecosystems of EU and Associated countries. In this context, literature review, interviews, questionnaires and workshops with all AWMN actors have already started to be deployed to construct the knowledge base for the AWM repository and identify the critical grassroots needs, barriers, gaps of EU farming systems, also including drivers that affect the farmers' perception and adoption rate of AWM strategies.

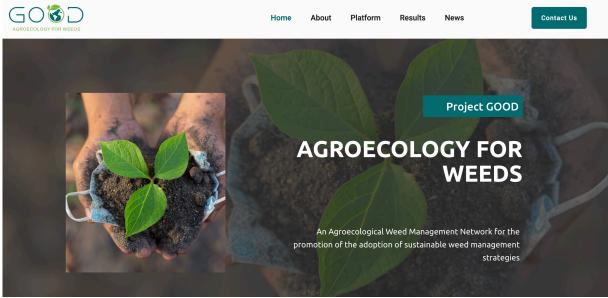


Figure 1: Home page of GOOD's website





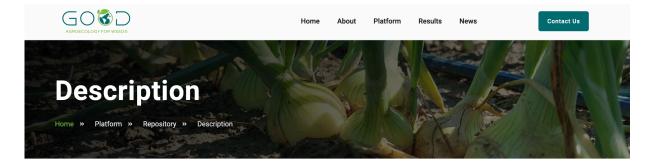
The AWM repository has to date 4 pages which are described in the following Table.

Page	Url
Description	https://www.goodhorizon.eu/platform/description/
Herbicide usage maps	https://www.goodhorizon.eu/platform/herbicide-usage-maps/
AWM practices	https://www.goodhorizon.eu/platform/awm-practices/
Search tool	https://www.goodhorizon.eu/platform/search-tool/

Table 2: Milestones related to the project's AWM repository

Description

The introductory page of the AWM repository aims to attract users to stay on the website and explore the opportunities and content of the repository. They will get informed on what they may learn, how could AWM practices benefit their farms, which are the included crops, and how they can contribute to the AWMN and the GOOD community.



Welcome to our Agroecological Weed Management (AWM) Repository – Your Gateway to sustainable weed management!

A repository for current weed management practices and herbicide use in European agroecosystems



Figure 2: Home page of the "Description" page of the AWM repository





Herbicide usage maps

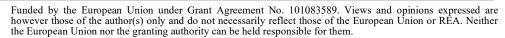
Funded by

the European Union

The herbicide usage maps aim to show the current (and past) data about herbicide use and sales in Europe. For that reason, the relevant websites of FAOSTAT and EUROSTAT were embedded into this page to link directly to official data. According to previous agreement with the sister projects (AGROSUS and CONSERWA) and based on our common intention to avoid duplications, a link will link directly to their repositories once these are ready. AGROSUS will work intensively on a database of weeds and herbicides.

erbicide U	sage Ma	aps			
e » Platform » Repository » H	erbicide Usage Maps				
On this page you can find from FAOSTAT and EURC	d data on the use an STAT. Browse their	d sale of herb pages below	icides in E to learn m	urope throug ore and see t	h official data he trends in
herbicides. You can also browse our sister p		ich contoine o rie	h databasa si	iwoodo ond borb	ieidee
FAOSTAT Herbicid		nen contains a nei	n uatabase or	weeus anu nerb	iciues.
	-				
Pesticides Us	se			Reack to d	lomains
DOWNLOAD DATA VISUALIZE D	ATA METADATA				
ltem	Element	Area		Pesticides Use	
Pesticides (total) + (Total) From Year To Year	Agricultural Use	v World + (Total)	V	The Pesticides Use da	atabase
1990 🔻 2021	*			includes data on the major pesticide grou	ps
Pesticides (total) + (Total) - A Average 1990 - 2021	gricultural Use by country (%)		•	(Insecticides, Herbicio Fungicides, Plant gro regulators and Sho	wth
			_	Bulk Download	le
2	S. 7 8		t ×	All Data	566 KB
		A Carlos and	<= 414.39 <= 1829.65 <= 8563.9	All Data Normalized All Area Groups Africa	95 KB
			> 8563.9	Americas	114 KB
Please note that by accessing the embedded content information, errors or omissions on the external site. F				ite. We accept no responsibili	ty with regard to any
EUROSTAT Herbic	ide Sales				
eurosta	+			Sign in Englis	h 💷 🗸
eurosta	Data Brov	vser	Sear	ch	۹.
ALL DATA RECEN	TLY UPDATED DOWNLOADS			i Info 💡	Help
Agriculture, forestry ar	nd fisheries 1 Agriculture 1 Agricultu	ire and environment) Pe	sticides		Information
Pesticide sal	es im_salpest09 DOI: 10.2908/aei_fm_:	salpest09 🕒		About this dataset Explanatory texts	Actions
	4 12:00 view: DEFAULT			Explanatory texts	
Source of data: Eurostat			+	Add to 'My datasets'	
Selection 🗖 🛛 Fo	ormat 🗕			Ł Download ▼ 🔶	
Geographical area	Series	Page		Ø	
A constituent and a	EC Data Browser (Latest comm	it d659826ac, built on 2024-04	4-15T12:05:27.890Z)		

Figure 3: Home page of the "Herbicide usage maps" page of the AWM repository





AWM practices

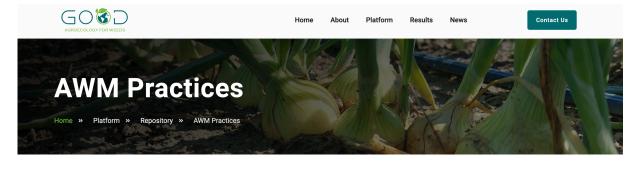
In the current version of the AWM repository there are 23 weed management practices. The final version will include 40 practices and combinations for sustainable weed management based on agroecological principles.

The user can hover over the cards which are flipped, and a short description appears. A *pdf* click button directs to a brief 2-page pdf that contains a description and benefits of the AWM practice, strengths-weaknesses-opportunities-threats of the practice, tips, a liability disclaimer and the funding disclaimer.

The practices that are now available to the public are shown in the following Table.

Type of weed management	Practice				
Crop diversification	Crop rotation	on Intercropping		Cover crops	
Cultural	False seedbed	Sowing pattern Hand we		and weeding	
Cunurai	Mulching		R	ow s	pacing
Mechanical	Mowing		Mechanical control		al control
Natural solution	Bioherbicides Grazing B		Biol	Biological agents	
Novel	Harvest weed seed control		Inoculation of cover crops with AMF		*
Tashualasiaal Drasisian	Decision Support Systems	Drones	Robots (automat	-	Hot foam
Technological-Precision	Laser weeding	Flaming	Electric		Site-specific spraying

 Table 3: Agroecological Weed Management practices



Here you can find out about AWM Practices



Figure 4: Home page of the "AWM practices" page of the AWM repository



Funded by the European Union



Crop Diversification Log Rotation Sequential cultivation of different crops in a specific order to disrupt weed life cycles. Dr Image: Dr

Figure 5: Cards of AWM practices

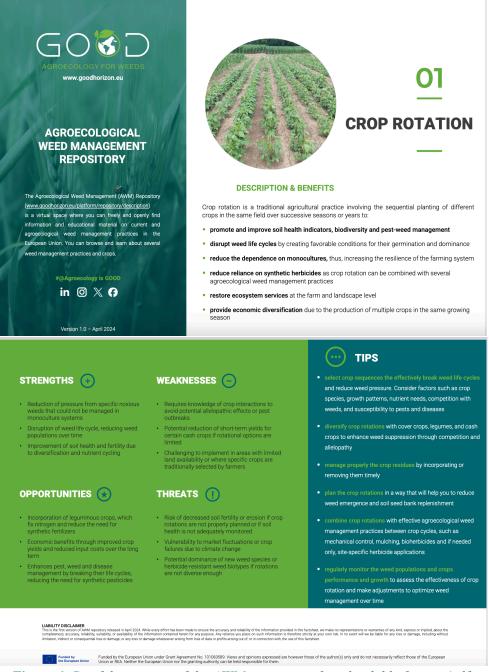


Figure 6: Brief description of the AWM practice in downloadable format (pdf)



Funded by the European Union



Search tool

The "Search tool" is the dynamic and interactive tool of the AWM repository where users can explore different combinations of crops and AWM practices and read benefits, risks, and tips. It will be a valuable educational and instructive tool to guide sustainable weed management giving practical knowledge that will facilitate decision-making on weed management. As a dynamic tool, the content will be continuously updated and there will not be patch releases. Data from the experimentation in the Living Labs will informally validate the content that is embedded into the Search tool combinations. A future addition in the specific combinations of crop-AWM practice includes a box for "success-stories" to inspire farmers and other stakeholders to adopt the relevant AWM practice in their farming system and another box "Learn more" with links to the e-learning module of GOOD, international open access bibliography and content of associated projects and initiatives.



AWM Practices Search Tool

Figure 7: Home page of the "Search tool" page of the AWM repository

Crop Filters		Crop Filters		
Onions		All Crops		
Pea		Apple		
Plum		Cherry Citrus	Onion – Intercropping	Triticale – Intercropping
Rice	Triticale – Intercropping	Cowpea	Learn More	Learn More
Rye	Learn More	Grapes		
Soybean		Maize Olives		
Triticale			-	
Wheat		AWM Filters		
		Intercropping		

Figure 8: *Example in the "Search tool" using crop filters only to see all possible AWM practices (left) and AWM filters to see all crops with the same AWM practice (right)*

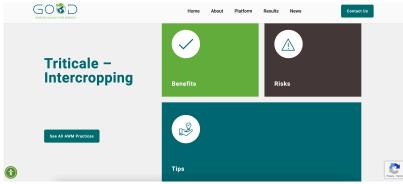


Figure 9: Example of a crop-AWM practice combination in the "Search tool"



Funded by the European Union