

Introduction to Detailed Work Plan

As a project, REGACE is fairly complex involving different kinds of tasks that require somewhat different project management methodologies to achieve the results specified in the REGACE grant agreement. The overall approach outlined in this work plan is to consider the merits of various project management methodologies, and to choose which elements of the various work packages are best suited to selected methodologies.

The classic waterfall project management methodology has clarity of structure and ease of control but it is not really suited to collaborative enterprises of this kind, especially since in this project has a high level of interdependency between several work packages. As such, one or several of the many variants of agile project management seem most suitable, even though the time frames of several of the elements in this consortia's project are longer than in most agile methodologies.

One of the principles of agile planning used in this overall work plan stems from the nature of all Horizon consortia and of this consortium in particular. The basic fact is that all partners are experts in their fields and have knowledge and insights that are not necessarily shared by other partners. As such, each of the partners played a part in translating the elements of their tasks and work packages into the action items and schedules that constitute a work plan. Another principle of agile planning is the need for cross team collaboration which is an essential part for the project both in the planning stages, the execution and the analysis of results.

As a result of the insights and discussions during the REGACE kickoff meeting it became clear that even those that seemed to be ostensibly separate from the rest and thus suitable for waterfall-style project management were also iterative and consultative. This became clear when WP 6 leader Prof. Andrea Volteranni introduced the concept of co-development in which farmers would help define the kind of installation in each location. This made sense in terms of lessons learned in a pre-kickoff tour of the FCS. We had originally conceived of WP 6 as a standalone WP which would influence final outcomes, but not the operative work packages. This was not a satisfactory approach, and as such we found that we needed to change our planning methodology. The interaction between the partners in the kickoff meeting required this change and we must anticipate further changes ahead and choose the project management methodologies best suited to such changes.

In this detailed presentation of each work package will be preceded with a brief analysis in which we consider several interlocking factors:

- a) To what extent is the content of the work package iterative, what actions require repetition and whether the repeating actions are identical or change according to local and other circumstances



- b) To what extent are all or part of the tasks dependent of the completion of other tasks in this work package or in other work packages?
- c) Is this dependency static or flexible? Or in other words does a delay in task A cause an equal delay in task B (flexible) or is task B not movable (like an important deliverable)
- d) What kind of information the work package will generate and will this information be used in other work packages? If it will be used is the information flow flexible or static in terms of times?

The project is using the Monday project management software because of its flexibility, third party applications and ability to communicate from and to the platform with users who are not subscribers.

The process of developing this work plan involved four stages:

1. Entering the various tasks outlined in the DoA annex of the Grant Agreement into the Monday application
2. Work by the coordinator, AZS, to expand these tasks into subtasks and other items with timelines and deadlines
3. A process of dialogue between the coordinator and each of the partners to hear their comments and suggestions about both the tasks in which they are directly involved and tasks that have impact or dependency with their tasks
4. Entering the results of this dialogue into the Monday application.

Presentation

Besides satisfying the required contractual obligation this work plan is intended to serve as a tool for all participants, first so that each partner will have an overall picture of the entire project and second, through the Monday application, as a day to day management tool. As such the basic format is of screenshots from the Monday application followed by Gantt charts for each work package. A Gantt chart of the entire project is too large and cumbersome to use.

This plan is based on the DOA. During the work on the plan the coordinator and various partners realized that there were several obvious mistakes in the plan and that the required changes need require amendments to the Grant Agreement. This plan is based on the original DOA without amendments since these changes have not been approved and will be changed after the amendments have been approved .

WP 1 Potentials of the synergies of innovative and intelligent agrivoltaic systems

Task leader University of the Thessaly M1-M6

WP 1 is a relatively simple work package. Its main vulnerability is on the dependence on data from all partners in the energy audits section

Synergies creation

Manage your individual project from this board. Set up tasks, owners, timelines, and more. See [See More](#)

Main Table | Tasks Assigned To... | Project Dashboard | Gantt | Chart | Kanban | Gantt | Dashboard | +

New Task | Search | Person | Filter | Sort | Hide

- Energy flows / energetic synergies (light, heat, CO2 enrichm...

Task	Owner	Status	Timeline	Dependent On	Completion Date
Energy flows / energetic syne...	[User]	Working on it	Feb 1 - May 1	-	May 1
Spatial synergies (existing gre...	[User]	Working on it	Feb 1 - May 1	-	May 1
Material flows (water, nutrient...	[User]	Working on it	Feb 1 - May 1	-	May 1
Visual representation of the r...	[User]	Working on it	Feb 1 - May 1	-	May 1
+ Add task			Feb 1 - May 1		

Provide Update on Month 2

Task	Owner	Status	Timeline	Dependent On	Completion Date
Send Lead org an update	[User]	Working on it	Mar 31 - Apr 1	-	Apr 3

Energy audits

Manage your individual project from this board. Set up tasks and owners, view the project's g... See [See More](#)

Main Table | Project Dashboard | Gantt | Tasks assigned to me | +

New Task | Search | Person | Filter | Sort | Hide

Energy audits

Task	Owner	Text	Status	Timeline	Dependent On	Completion Date
Preparation of template for the ...	[User]		Done	Mar 17 - 30	-	Mar 17
Preparation of questionnaire for...	[User]		Done	Mar 17 - 30	-	Mar 17
Ask partners for data for Energy...	[User]	Please see attache...	Done	Feb 28 - Mar 24	-	Jun 1
Finalization of template for the ...	[User]		Working on it	Mar 1 - 24	-	Mar 24
Get energy audits from partners	[User]		Working on it	May 1 - Jun 9	Ask partners for...	Jun 9
Energy Evaluations	[User]		Working on it	Apr 24 - May 26	Ask partners for...	Jul 9
+ Add task						

writing reports

Task	Owner	Text	Status	Timeline	Dependent On	Completion Date
Write draft Estimation of the sy...	[User]	Please see attache...	Working on it	May 27 - Jun 1	-	Jun 1
Write draft Energy audit report	[User]	Please see attache...	Working on it	May 27 - Jun 1	-	Jun 1
Submit Wp 1 deliverable	[User]	Please see attache...			Energy Ev... +4	Jun 26



			Boards - Synergies creation (by quarters)											
			2023											
	Start	End	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
- Energy flows / energetic synergies			- Energy flows / energetic synergies (light, heat, CO2 enrichment)											
Energy flows / energetic synergies (li	01-Feb-2023	01-May-2023	c synergies (light, heat, CO2 enrichment) (
Spatial synergies (existing greenhou:	01-Feb-2023	01-May-2023	g greenhouses and indoor PV construction											
Material flows (water, nutrients, sub	01-Feb-2023	01-May-2023	s (water, nutrients, substrates) (01-Feb-23											
Visual representation of the results i	01-Feb-2023	01-May-2023	ation of the results in a flow chart (01-Feb											
Provide Update on Month 2			Provide Update on Month 2											
Send Lead org an update	31-Mar-2023	01-Apr-2023	an update (31-Mar-2											

	Start	End	Feb	Mar	Apr	May	Jun	Jul
Energy audits			Energy audits					
Ask partners for data for Energy Eval	28-Feb-2023	24-Mar-2023	r Energy Evaluations					
Finalization of template for the ener	01-Mar-2023	24-Mar-2023	collabora					
Preparation of template for the ener	17-Mar-2023	30-Mar-2023	gy audits c					
Preparation of questionnaire for the	17-Mar-2023	30-Mar-2023	for the syn					
Energy Evaluations	24-Apr-2023	26-May-2023	valuations (24-Apr-23 -					
Get energy audits from partners	01-May-2023	09-Jun-2023	from partners (01-M					
writing reports			writing reports					
Write draft Estimation of the synergy	27-May-2023	01-Jun-2023	als of intelligent PV gr					
Write draft Energy audit report	27-May-2023	01-Jun-2023	y audit report (27-Ma					



WP 2 Implementation

Lead Partner: TriSolar M1-M36

One of the most complex work packages, that requires constant oversight and ability to change plans

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Main vulnerabilities:

1. Supply chain issues in delivery of panels and other equipment
2. Regulatory issues in grid-connected installations
3. Design delays
4. Locating qualified installers available at the right time frames

Task 2.1 Design adaptation, construction, installation and maintenance of the crop responsive PV tracking system in different locations

Allowable grid connection protocols and permissions

Task	Owner	Status	Timeline	Duration	Depende
Protocol specification - Send out Email for partners		Done	Jan 13 - 21	9 days	-
Allowable grid connection protocols and permission...		Done	Jan 22 - 30	9 days	Protocol
Summary of existing regulations in installation locations		Working on it	Apr 30 - May 28	29 days	-
+ Add task					

Alzahrawy (AZS) design guidelines

Task	Owner	Status	Text	Timeline	Completion Date
3D scan AZS		Done		✓ -	Feb 27
3D planning AZS		Done		✓ Feb 27 - Apr 1	May 31
Electric permit AZS	RK	Done		✓ Feb 1 - May 31	Feb 27
Restrictions AZS	ME	Done		✓ Feb 1 - May 31	Feb 27
Controller adaptation AZS		Working on it		Mar 1 - May 1	May 31
Deliverable - AZS Design guideline		Working on it		May 31	May 31
+ Add task					

Humboldt Uni (HU) design guidelines

Task	Owner	Status	Text	Timeline	Completion Date
3D planning HU		Working on it		Mar 1 - 30	
Electric permit HU	RK	Working on it		Mar 1 - Jun 28	
Restrictions HU	ME	Working on it		Mar 1 - Jun 28	
Controller adaptation HU		Working on it		Feb 1 - May 31	
Deliverable - HU Design		Working on it		May 31	
+ Add task					



▼ BOKU Design guideline

<input type="checkbox"/>	Task		Owner	Status	Text	Timeline	Completion Date
<input type="checkbox"/>	3D planning BOKU	+		Working on it		Mar 1 - 31	
<input type="checkbox"/>	Electric permit BOKU	+		Working on it	fix	Mar 1 - Jun 28	
<input type="checkbox"/>	> Restrictions BOKU 2	+		Working on it		Feb 1 - May 31	
<input type="checkbox"/>	> Controller adaptation BOKU 1	+		Working on it		Feb 1 - May 31	
<input type="checkbox"/>	> Deliverable - BOKU Design 4	+		Working on it		May 31	
<input type="checkbox"/>	+ Add task						
						Feb 1 - Jun 28	

▼ Bio Watzkendorf BW Design guideline

<input type="checkbox"/>	Task		Owner	Status	Text	Timeline	Comple
<input type="checkbox"/>	3D planning BW	+				Mar 1 - 31	
<input type="checkbox"/>	Electric permit BW	+			fix	Mar 1 - Jun 28	
<input type="checkbox"/>	> Restrictions BW 2	+				Feb 1 - May 31	
<input type="checkbox"/>	> Controller adaptation BW 1	+				Feb 1 - May 31	
<input type="checkbox"/>	> Deliverable - BW Design 4	+				May 31	
<input type="checkbox"/>	+ Add task						
						Feb 1 - Jun 28	

▼ Thessaly Uni (UTH) Design guideline

<input type="checkbox"/>	Task		Owner	Status	Text	Timeline	Completion Date
<input type="checkbox"/>	3D planning UTH	+				Mar 1 - 31	
<input type="checkbox"/>	Electric permit UTH	+			fix	Mar 1 - Jun 28	
<input type="checkbox"/>	> Restrictions UTH 2	+				Feb 1 - May 31	
<input type="checkbox"/>	> Controller adaptation UTH 1	+				Feb 1 - May 31	
<input type="checkbox"/>	> Deliverable - UTH Design 4	+				May 31	
<input type="checkbox"/>	+ Add task						

▼ FSC guideline

<input type="checkbox"/>	Task		Owner	Status	Text	Timeline	Completion Date	Dr
<input type="checkbox"/>	Design shading for greens in summer FSC	+		Working on it		-		
<input type="checkbox"/>	3D planning FSC	+				Mar 1 - 31		
<input type="checkbox"/>	Electric permit FSC	+			fix	Mar 1 - Jun 28		
<input type="checkbox"/>	> Restrictions FSC 2	+				Feb 1 - May 31		
<input type="checkbox"/>	> Controller adaptation FSC 1	+				Feb 1 - May 31		
<input type="checkbox"/>	> Deliverable - FSC Design 4	+				May 31		
<input type="checkbox"/>	+ Add task							

Task 2.1.2 Adapted tracker manufacture



Adapted tracker manufacture Group

Task	Owner	Status	Timeline	Text	Completion Date	Dependent On
List of component for each locat...		Working on it	May 1 - 15		May 15	-
Subitem	Owner	Status	Timeline	Due Date	Dependency	
AZS List of Components		Working on it	May 1 - 15	Jul 31	Deliverable - AZS Design gui...	
FSC Italy list of components		Working on it	May 1 - 15	Jul 31	Deliverable - FSC Design	
UTH List of Components		Working on it	May 1 - 15	Jul 31	Deliverable - UTH Design	
BOKU List of Components		Working on it	May 1 - 15	Jul 31	Deliverable - BOKU Design	
BW List of Components		Working on it	May 1 - 15	Jul 31	Deliverable - BW Design	
HU List of Components		Working on it	May 1 - 15	Jul 31	Deliverable - HU Design	
+ Add subitem						
Order the parts		Working on it	May 15 - 19		May 28	-
certifications for parts		Working on it	-			-
+ Add task			May 1 - 19			

Task 2.1.3 Tracker installation guideline for different ty...

Task	Owner	Status	Timeline	Text	Completion Date	Dependent On
Guideline for different types of greenhouse		Working on it	May 31 - Sep 29			depende...
compile design and installation guidelines			Jun 1 - Sep 30			
Subitem	Owner	Status	Due Date	Timeline		
Tracker installation guideline - BOKU		Future action		Jun 1 - Sep 30		
Tracker installation guideline - AZS		Future action		Jun 1 - Sep 30		
Tracker installation guideline - UTH		Future action		Jun 1 - Sep 30		
Tracker installation guideline - FSC		Future action		Jun 1 - Sep 30		
Tracker installation guideline - BW		Future action		Jun 1 - Sep 30		
Tracker installation guideline - HU		Future action		Jun 1 - Sep 30		
+ Add subitem						

Task 2.1.4 Tracker installation

AZS Tracker installation

Task	Owner	Status	Timeline	Text	Completion Date	Dependent On
Tracker Installation AZS		Future steps	Jul 1			-
Controller tuning AZS		Working on it	Aug 1			Tracker Installati...
sample testing and validatio...		Future steps	May 1 - 31			-
+ Add task			May 1 - Aug 1			

BOKU Tracker installation

Task	Owner	Status	Timeline	Text	Completion Date	Dependent On
Arrange installation visit BOKU...		Future steps	Jun 1 - 30			-
Tracker Installation BOKU		Future steps	Jul 31			-
Controller tuning BOKU		Future steps	Aug 1			Tracker Installati...
+ Add task			Jun 1 - Aug 1			



▼ BW tracker installation

<input type="checkbox"/>	Task		Owner	Status	Timeline	Dependent On	+	
<input type="checkbox"/>	Arrange installation visit BW	+		Future steps	Jun 1 - 30	-		
<input type="checkbox"/>	Tracker installation Germany ...	+		Future steps	Jul 31	-		
<input type="checkbox"/>	Controller tuning BW	+		Future steps	Aug 1	Tracker installati...		
<input type="checkbox"/>	+ Add task							
					Jun 1 - Aug 1			

▼ HU tracker installation

<input type="checkbox"/>	Task		Owner	Status	Timeline	Dependent On	+	
<input type="checkbox"/>	Arrange installation visit HU	+		Future steps	Jun 1 - 30	-		
<input type="checkbox"/>	Tracker installation HU	+		Future steps	Jul 31	-		
<input type="checkbox"/>	Controller tuning HU	+		Future steps	Aug 1	Tracker installati...		
<input type="checkbox"/>	+ Add task							
					Jun 1 - Aug 1			

▼ UTH tracker installation

<input type="checkbox"/>	Task		Owner	Status	Timeline	Dependent On	+	
<input type="checkbox"/>	Arrange installation visit UTH	+		Future steps	Jun 1 - 30	-		
<input type="checkbox"/>	Tracker installation UTH	+		Future steps	Jul 31	-		
<input type="checkbox"/>	Controller tuning UTH	+		Future steps	Aug 1	Tracker installati...		
<input type="checkbox"/>	+ Add task							
					Jun 1 - Aug 1			

▼ FSC Tracker Installation

<input type="checkbox"/>	Task		Owner	Status	Timeline	Dependent On	+	
<input type="checkbox"/>	Arrange Visit FSC	+		Future steps	Jun 1 - 30	-		
<input type="checkbox"/>	Tracker Installation FSC	+		Future steps	Jul 31	-		
<input type="checkbox"/>	Controller tuning FSC	+		Future steps	Aug 1	Tracker Installati...		
<input type="checkbox"/>	+ Add task							
					Jun 1 - Aug 1			



Task 2.1.5 Tracker maintenance 🔔 ☆

Activity **ME**

Manage your individual project from this board. Set up tasks and owners, view the project's g... [See More](#)

[Main Table](#) | [Project Dashboard](#) | [Gantt](#) | [Tasks assigned to me](#) | [+](#)

[Integrate](#) [A](#)

New Task ▼ ▼ ...

▼ Systems Checks

<input type="checkbox"/>	Task	<input type="text" value="Add"/>	Owner 👤	Status 📊	Timeline 📅	Dependent On 🔗	Comple
<input type="checkbox"/>	Data monitoring in all locations to identify problems	<input type="text" value="Add"/>	<input type="text" value="User"/>	<input type="text" value="Status"/>	Jul 31, '23 - Aug 1, '25	-	
<input type="checkbox"/>	Tracker maintenance and system checks at all locations 6	<input type="text" value="Add"/>	<input type="text" value="User"/>	<input type="text" value="Status"/>	Jul 31, '23 - Aug 1, '25	-	
<input type="checkbox"/>	O&M by subcontractor for all locations	<input type="text" value="Add"/>	<input type="text" value="User"/>	<input type="text" value="Status"/>	Jul 31, '23 - Aug 1, '25	-	
<input type="checkbox"/>	+ Add task				Jul 31, '23 - Aug 1, '25		



	Start	End	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Allowable grid connection protocols			Allowable grid connection protocols and permissions								
Protocol specification - Send out Em	13-Jan-2023	21-Jan-2023				Send Email for					
Allowable grid connection protocols	22-Jan-2023	30-Jan-2023				relations rela					
send email to partners	31-Oct-2022	31-Oct-2022	Partners (31-C								
Summary of existing regulations in ir	30-Apr-2023	28-May-2023							ns in installation loca		



			Boards - Greenhouse specific tracker design adaptation (
			2023											
	Start	End	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Phases of structural elements survey			Phases of structural elements survey											
Email to partners to get greenhouse	01-Feb-2023	09-Feb-2023												
Visits to different Greenhouse locati	01-Feb-2023	01-Mar-2023												
Compile information from emails	10-Feb-2023	10-Mar-2023												
Alzahrawy (AZS) design guidelines			Alzahrawy (AZS) design guidelines											
Electric permit AZS	01-Feb-2023	31-May-2023												
Restrictions AZS	01-Feb-2023	31-May-2023												
follow up on questionnaire AZS	01-Apr-2023	01-Apr-2023												
follow up on regulatory task AZS	01-Apr-2023	01-Apr-2023												
3D planning AZS	27-Feb-2023	01-Apr-2023												
Controller adaptation AZS	01-Mar-2023	01-May-2023												
Milestone - AZS Design guideline	31-May-2023	31-May-2023												
AZS electric schematic plan	16-Apr-2023	16-Apr-2023												
AZS string plan	16-Apr-2023	16-Apr-2023												
AZS system model illustration	30-Apr-2023	30-Apr-2023												
AZS system book	30-Apr-2023	30-Apr-2023												
Humboldt Uni (HU) design guideline			Humboldt Uni (HU) design guideline											
Controller adaptation HU	01-Feb-2023	31-May-2023												
3D planning HU	01-Mar-2023	30-Mar-2023												
Electric permit HU	01-Mar-2023	28-Jun-2023												
Restrictions HU	01-Mar-2023	28-Jun-2023												
follow up on regulatory task HU	15-Apr-2023	15-Apr-2023												
follow up on questionnaire HU	15-Apr-2023	15-Apr-2023												
Milestone - HU Design	31-May-2023	31-May-2023												
electric schematic plan HU	16-Apr-2023	16-Apr-2023												
string plan HU	16-Apr-2023	16-Apr-2023												
system model illustration HU	30-Apr-2023	30-Apr-2023												
system book HU	30-Apr-2023	30-Apr-2023												
BOKU Design guideline			BOKU Design guideline											
Restrictions BOKU	01-Feb-2023	31-May-2023												
follow up on regulatory task BOKU	15-Apr-2023	15-Apr-2023												
follow up on questionnaire (BOKU)	15-Apr-2023	15-Apr-2023												
Controller adaptation BOKU	01-Feb-2023	31-May-2023												
3D planning BOKU	01-Mar-2023	31-Mar-2023												
Electric permit BOKU	01-Mar-2023	28-Jun-2023												
Milestone - BOKU Design	31-May-2023	31-May-2023												
electric schematic plan BOKU	16-Apr-2023	16-Apr-2023												
string plan BOKU	16-Apr-2023	16-Apr-2023												
system model illustration BOKU	30-Apr-2023	30-Apr-2023												
system book BOKU	30-Apr-2023	30-Apr-2023												
Bio Watzkendorf BW Design guideline			Bio Watzkendorf BW Design guideline											
Restrictions BW	01-Feb-2023	31-May-2023												
follow up on regulatory task BW	15-Apr-2023	15-Apr-2023												
follow up on questionnaire BW	15-Apr-2023	15-Apr-2023												
Controller adaptation BW	01-Feb-2023	31-May-2023												
3D planning BW	01-Mar-2023	31-Mar-2023												
Electric permit BW	01-Mar-2023	28-Jun-2023												
Milestone - BW Design	31-May-2023	31-May-2023												
electric schematic plan BW	16-Apr-2023	16-Apr-2023												
string plan BW	16-Apr-2023	16-Apr-2023												
system model illustration BW	30-Apr-2023	30-Apr-2023												
system book BW	30-Apr-2023	30-Apr-2023												
Thessaly Uni (UTH) Design guideline			Thessaly Uni (UTH) Design guideline											
Restrictions UTH	01-Feb-2023	31-May-2023												
follow up on regulatory task (UTH)	15-Apr-2023	15-Apr-2023												
follow up on questionnaire UTH	15-Apr-2023	15-Apr-2023												
Controller adaptation UTH	01-Feb-2023	31-May-2023												
3D planning UTH	01-Mar-2023	31-Mar-2023												
Electric permit UTH	01-Mar-2023	28-Jun-2023												
Milestone - UTH Design	31-May-2023	31-May-2023												
electric schematic plan UTH	16-Apr-2023	16-Apr-2023												
string plan UTH	16-Apr-2023	16-Apr-2023												
system model illustration UTH	30-Apr-2023	30-Apr-2023												
system book UTH	30-Apr-2023	30-Apr-2023												
FSC guideline			FSC guideline											
Restrictions FSC	01-Feb-2023	31-May-2023												
Controller adaptation FSC	01-Feb-2023	31-May-2023												
3D planning FSC	01-Mar-2023	31-Mar-2023												
Electric permit FSC	01-Mar-2023	28-Jun-2023												
Milestone - FSC Design	31-May-2023	31-May-2023												
electric schematic plan FSC	16-Apr-2023	16-Apr-2023												
string plan FSC	16-Apr-2023	16-Apr-2023												
system model illustration FSC	30-Apr-2023	30-Apr-2023												
system book FSC	30-Apr-2023	30-Apr-2023												



Adapted tracker manufacture Group

	Start	End	Mar-2023			Apr-2023			May-2023		
			26	2	9	16	23	30	7	14	21
Adapted tracker manufacture Group			Adapted tracker manufacture Group								
List of component for each location	01-May-2023	15-May-2023									
AZS List of Components	31-Jul-2023	31-Jul-2023									
FSC Italy list of components	31-Jul-2023	31-Jul-2023									
UTH List of Components	31-Jul-2023	31-Jul-2023									
BOKU List of Components	31-Jul-2023	31-Jul-2023									
BW List of Components	31-Jul-2023	31-Jul-2023									
HU List of Components	31-Jul-2023	31-Jul-2023									
Order the parts	15-May-2023	19-May-2023									

Develop tracker installation guidelines for different greenhouse types

	Start	End	26	2	9	16	23	30	7	14	21
			Task 2.1.3 Tracker installation guideline for different types of greenhouse in all locations								
Guideline for different types of greenhouse	31-May-2023	29-Sep-2023									
compile design and installation guideline	01-Jun-2023	30-Sep-2023									
Deliverable D2.1 - Report	30-Sep-2023	30-Sep-2023									



			Boards - Task 2.1.4 Tracker installation (by months)																													
			Feb-2023					Mar-2023					Apr-2023					May-2023					Jun-2023					Jul-2023				
			26	5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18	25	2	9	16	23	30							
Start	End																															
Installation subcontractor																																
Send Description of required subcontractor	28-Feb-2023	02-Mar-2023																														
get quotes	29-Mar-2023	29-Mar-2023																														
close deal / agreement	30-Apr-2023	30-Apr-2023																														
AZS Tracker installation																																
sample testing and validation AZS	01-May-2023	31-May-2023																														
Tracker Installation AZS	01-Jul-2023	01-Jul-2023																														
Controller tuning AZS	01-Aug-2023	01-Aug-2023																														
BOKU Tracker installation																																
Arrange installation visit BOKU	01-Jun-2023	30-Jun-2023																														
Tracker Installation BOKU	31-Jul-2023	31-Jul-2023																														
Controller tuning BOKU	01-Aug-2023	01-Aug-2023																														
BW tracker installation																																
Arrange installation visit BW	01-Jun-2023	30-Jun-2023																														
Tracker installation Germany BW	31-Jul-2023	31-Jul-2023																														
Controller tuning BW	01-Aug-2023	01-Aug-2023																														
HU tracker installation																																
Arrange installation visit HU	01-Jun-2023	30-Jun-2023																														
Tracker Installation HU	31-Jul-2023	31-Jul-2023																														
Controller tuning HU	01-Aug-2023	01-Aug-2023																														
UTH tracker installation																																
Arrange installation visit UTH	01-Jun-2023	30-Jun-2023																														
Tracker installation UTH	31-Jul-2023	31-Jul-2023																														
Controller tuning UTH	01-Aug-2023	01-Aug-2023																														
FSC Tracker Installation																																
Arrange Visit FSC	01-Jun-2023	30-Jun-2023																														
Tracker Installation FSC	31-Jul-2023	31-Jul-2023																														
Controller tuning FSC	01-Aug-2023	01-Aug-2023																														

Task 2.1.5 Tracker maintenance

2023												2024												2025											
Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Systems Checks																																			
Data monitoring in all locations to identify problems (31-Jul-23 - 01-Aug-25)																																			
Tracker maintenance and system checks at all locations (31-Jul-23 - 01-Aug-25)																																			
O&M by subcontractor for all locations (31-Jul-23 - 01-Aug-25)																																			



2.2.1 Planning CO2 enrichment systems in greenhouses at different locations

▼ HU: Use of technical CO2 from bottles

<input type="checkbox"/>	Task	Owner	Status	Timeline	Dependent On	Completion Date	Comple
<input type="checkbox"/>	Co2 enrichment planning of the syste...		Future steps	Jun 1 - Jul 1	-		
<input type="checkbox"/>	+ Add task			Jun 1 - Jul 1			

▼ AZS: organic materials in soil cultures

<input type="checkbox"/>	Task	Owner	Status	Timeline	Dependent On	Completion Date	Comple
<input type="checkbox"/>	Organic materials in soil cultures AZS		Future steps	Jun 1 - Aug 1	-		
<input type="checkbox"/>	+ Add task			Jun 1 - Aug 1			

▼ BW: CO2 enrichment with organic materials

<input type="checkbox"/>	Task	Owner	Status	Timeline	Dependent On	Completion Date	Comple
<input type="checkbox"/>	CO2 enrichment with organic materials...		Future steps	Aug 1, '23 - Mar 29, '24	-	Jan 12, 2022	
<input type="checkbox"/>	+ Add task			Aug 1, '23 - Mar 29, '24			

▼ BOKU: Use of CO2 bags

<input type="checkbox"/>	Task	Owner	Status	Timeline	Dependent On	Completion Date	Comple
<input type="checkbox"/>	Use of CO2 bags BOKU		Future steps	Oct 20, '23 - Jun 1, '25	-		
<input type="checkbox"/>	+ Add task			Oct 20, '23 - Jun 1, '25			

▼ FSC: Organic materials in soil cultures

<input type="checkbox"/>	Task	Owner	Status	Timeline	Dependent On	Completion Date	Comple
<input type="checkbox"/>	Organic materials in soil cultures FSC			Sep 1, '23 - Dec 1, '25	-		
<input type="checkbox"/>	+ Add task			Sep 1, '23 - Dec 1, '25			

▼ UTH: use of technical CO2 from bottles

<input type="checkbox"/>	Task	Owner	Status	Timeline	Dependent On	Completion Date	Comple
<input type="checkbox"/>	Use of technical CO2 from bottles UTH		Future steps	Sep 1, '23 - Sep 1, '25	-		
<input type="checkbox"/>	+ Add task			Sep 1, '23 - Sep 1, '25			



2.2.2 Studies on horizontal and vertical CO2 distribution in dif... Activity ME

Manage your individual project from this board. Set up tasks and owners, view the project's g... [See More](#)

[Main Table](#) | [Project Dashboard](#) | [Gantt](#) | [Tasks assigned to me](#) | +

[Integrate](#)

[New Task](#) Search Person Filter Sort Hide ...

Studies on horizontal and vertical CO2 distribution in di...

<input type="checkbox"/>	Task	Owner	Status	Timeline	Dependent On	Completion Date
<input type="checkbox"/>	> Studies on horizontal and vertical CO2 distri...		Future steps	! Aug 31, '22 - Feb 26, '23	-	
<input type="checkbox"/>	+ Add task					

Studies on optimization of CO2 enrichment systems

<input type="checkbox"/>	Task	Owner	Status	Timeline	Dependent On	Completion Date
<input type="checkbox"/>	optimization of CO2 enrichment systems		Future steps	! Aug 31, '22 - Feb 26, '23	-	
<input type="checkbox"/>	+ Add task					

+ Add new group

2.2.3 Integration of CO2 measurement and control systems i... Activity ME

Manage your individual project from this board. Set up tasks and owners, view the project's g... [See More](#)

[Main Table](#) | [Project Dashboard](#) | [Gantt](#) | [Tasks assigned to me](#) | +

[Integrate](#)

[New Task](#) Search Person Filter Sort Hide ...

Integration of CO2 measurement and control systems...

<input type="checkbox"/>	Task	Owner	Status	Timeline	Duration	Dependent On
<input type="checkbox"/>	Integration of CO2 measurement and contr...			Mar 1 - Sep 30	214 days	-
<input type="checkbox"/>	> Preparing for data collection			Mar 1 - Oct 28	242 days	-
<input type="checkbox"/>	Deliverable- Report on CO2 enrichment sys...	ME		Nov 30	0 days	-
<input type="checkbox"/>	+ Add task					
				Mar 1 - Nov 30	456 days sum	



2.2.1 Planning CO2 enrichment systems in greenhouses at different locations (by years)

			Boards - 2.2.1 Planning CO2 enrichment systems in											
			2023											
	Start	End	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
CO2 enrichment protocols for all locations			CO2 enrichment protocols for all locations											
CO2 enrichment protocols for all locations	01-Mar-2023	01-May-2023	protocols for all locations (01-Mar-2023 - 01-May-2023)											
HU: Use of technical CO2 from bottles			HU: Use of technical CO2 from bottles											
Co2 enrichment planning of the system HU	01-Jun-2023	01-Jul-2023	ing of the system HU											
AZS: organic materials in soil cultures			AZS: organic materials in soil cultures											
Organic materials in soil cultures AZS	01-Jun-2023	01-Aug-2023	ials in soil cultures AZS (01-Jun-2023 - 01-Aug-2023)											
BW: CO2 enrichment with organic materials			BW: CO2 enrichment with organic materials											
CO2 enrichment with organic materials BW	01-Aug-2023	31-Oct-2023	with organic materials BW (01-Aug-2023 - 31-Oct-2023)											
BOKU: Use of CO2 bags			BOKU: Use of CO2 bags											
Use of CO2 bags BOKU	01-Sep-2023	31-Oct-2023	bags BOKU (01-Sep-2023 - 31-Oct-2023)											
FSC: Organic materials in soil cultures			FSC: Organic materials in soil cultures											
Organic materials in soil cultures FSC	31-Jul-2023	30-Sep-2023	ials in soil cultures FSC (31-Jul-2023 - 30-Sep-2023)											
UTH: use of technical CO2 from bottles			UTH: use of technical CO2 from bottles											
Use of technical CO2 from bottles UTH	31-Aug-2023	30-Sep-2023	from bottles UTH (31-Aug-2023 - 30-Sep-2023)											
Install CO2 system			Install CO2 system											
AZS install CO2 system	01-Jul-2023	30-Nov-2023	AZS install CO2 system (01-Jul-23 - 30-Nov-23)											
HU install CO2 system	01-Jul-2023	30-Nov-2023	HU install CO2 system (01-Jul-23 - 30-Nov-23)											
BW install CO2 system	01-Jul-2023	30-Nov-2023	BW install CO2 system (01-Jul-23 - 30-Nov-23)											
FSC install CO2 system	01-Jul-2023	30-Nov-2023	FSC install CO2 system (01-Jul-23 - 30-Nov-23)											
BOKU install CO2 system	01-Jul-2023	30-Nov-2023	BOKU install CO2 system (01-Jul-23 - 30-Nov-23)											
UTH install CO2 system	01-Jul-2023	30-Nov-2023	UTH install CO2 system (01-Jul-23 - 30-Nov-23)											



2.2.2 Studies on horizontal and vertical CO2 distribution in different heating and ventilation systems, optimization of CO2 enrichment systems

Start	End	28	4	11	18	25	2	9	16	23	30	6	13	20	27	4	11	18	25	1	8	15	22	29	5	12	19	26		
Studies on horizontal and vertical CO2 distribution in different heating and ventilation systems	31-Aug-2022	26-Feb-2023	Studies on horizontal and vertical CO2 distribution in different heating and ventilation systems (31-Aug-22 - 26-Feb-23)																											
Studies on optimization of CO2 enrichment systems	31-Aug-2022	26-Feb-2023	optimization of CO2 enrichment systems (31-Aug-22 - 26-Feb-23)																											

2.2.3 Integration of CO2 measurement and control systems into cloud-based data collection software (by quarters)

Start	End	2023											
		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Integration of CO2 measurement and control systems into cloud-based data collection software		Integration of CO2 measurement and control systems into cloud-based data collection software											
01-Mar-2023	30-Sep-2023	Preparation for data collection (01-Mar-23 - 28-Oct-23)											
01-Mar-2023	28-Oct-2023	Preparation for data collection (01-Mar-23 - 28-Oct-23)											
30-Nov-2023	30-Nov-2023	Deliverable- Report on CO2 enrichment systems for the											



WP 3 Testing

Lead Partner BOKU

The main challenge in this relatively complex work package is in coordinating scientific input and creating common standards for the data generated by the entire project

3.2 PV electrical monitoring in greenhouses

Task 3.2. Modeling of the PV modules performance.

Task	Owner	Status	Timeline	Dependent On	WP8: Diss
3.1.1: Set up of the measurement site in Tor Vergata Univ...		Working on it	Mar 1 - Sep 30	-	-
3.1.2: Acquisition of the PV panels and installation on the ...		Future steps	Jun 1, '23 - Jul 31, '24	-	-
3.1.3: Measurement of IV Curve, Bifaciality, BIFI, Tempera...		Future steps	Jul 1, '24 - Sep 30, '24	-	-
3.1.4: Monitoring Performance of bifacial modules (long-t...		Future steps	Jul 1, '24 - Dec 31, '25	-	-
3.1.5: Data Analysis		Future steps	Jul 1, '24 - Dec 31, '25	-	-
+ Add task			Mar 1, '23 - Dec 31, '25		

3.2.1 electrical performance testing and data collection protocol for the PV

Task	Owner	Status	Timeline	Dependent On	WP8: Diss
testing and data collection protocol		Working on it	Feb 1 - Jul 31	-	-
Deliverable- electrical part of test protocol			Oct 1, '25	-	-
+ Add task			Feb 1, '23 - Oct 1, '25		

3.2.2 Training of the researchers

Task	Owner	Status	Timeline	Dependent On	WP8: Diss
Training of the researchers		Future steps	Aug 1 - Oct 31	-	-
+ Add task			Aug 1 - Oct 31		

3.2.3 Data collection in all test locations

Task	Owner	Status	Timeline	Dependent On	WP8: Diss
Installation of monitoring equipment		Future steps	Aug 1 - Oct 1	-	-
Data collection cloud		Future steps	Aug 1 - Oct 1	-	-
Data collection		Future steps	Nov 1, '23 - Nov 1, '25	-	-
Deliverable- Testing report part		Future steps	Oct 1, '25	-	-
+ Add task			Aug 1, '23 - Nov 1, '25		

3.2.4 The ageing behaviour of the PVs in greenhouse environments

Task	Owner	Status	Timeline	Dependent On	WP8: Dissemi...	Connect b
Initial Characterization for aging test		Future steps	Jul 1 - 31	-	-	
Weekly photographic and thermal energy record		Future steps	Nov 1, '23 - Nov 10, '25	-	-	
Indoor accelerating aging test		Future steps	Feb 1, '24 - Apr 30, '24	-	-	
Final Characterization for aging test		Future steps	Jul 1, '25 - Aug 31, '25	-	-	
Deliverable- Testing report part		Future steps	Oct 1, '25	-	-	
+ Add task			Jul 1, '23 - Nov 10, '25			

+ Add new group



3.3: Greenhouse microclimate measurements inside the greenhouses

3.3.1: Develop a data collection strategy and microclimate monitoring prot...

Task	Owner	Status	Timeline	Dependent On	Completion Date
Develop a data collection strategy and microclimate monitorin...	[User Icon]	Future steps	Apr 1 - Sep 30	-	
Deliverable- Testing report part	[User Icon]		Oct 1, '25	-	
+ Add task			Apr 1, '23 - Oct 1, '25		

3.3.2: Training of the researchers from each growing site to ensure the repro...

Task	Owner	Status	Timeline	Dependent On	Completion Date
Training of the researchers from each growing site to ensure th...	ME	Future steps	Jun 1 - Oct 31	-	
+ Add task			Jun 1 - Oct 31		

3.3.3: Micro-climate data collection

Task	Owner	Status	Timeline	Dependent On	Completion Date
Micro-climate data collection	[User Icon]	Future steps	Nov 1, '23 - Jul 1, '25	-	Jan 18, 2022
Deliverable- Testing report part	[User Icon]	Future steps	Jul 1, '25 - Oct 1, '25	-	Feb 4, 2022
+ Add task			Nov 1, '23 - Oct 1, '25		

3.2.4 The ageing behaviour of the PVs in greenhouse environments

Task	Owner	Status	Timeline	Dependent On	Completion Date
The ageing behaviour of the PVs in greenhouse environments	[User Icon]		Nov 1, '23 - Dec 31, '25	-	
+ Add task			Nov 1, '23 - Dec 31, '25		

3.5 Greenhouse Water Efficiency

3.5.1 Determination of water use efficiency for fully closed recirculating irrig...

Task	Owner	Status	Timeline	Dependent On	Completion Date
Instruction by Thorston to Partners	[User Icon]		May 1 - Jun 1	-	
Set equipment type needed for this me...	[User Icon]		May 1 - Jun 1	-	
Determination of water use efficiency f...	[User Icon]		Oct 1, '23 - Dec 1, '25	-	Jan 18, 2022
+ Add task			May 1, '23 - Dec 1, '25		

3.5.2 BOKU Determination of water consumption per yield unit depending ...

Task	Owner	Status	Timeline	Dependent On	Completion Date
Determination of water consumption p...	[User Icon]		Nov 1, '23 - Jun 1, '25	-	
Milestone- Testing report part	[User Icon]		Oct 1, '25	-	
+ Add task			Nov 1, '23 - Oct 1, '25		



3.6 CO2 enrichment as compensation possibility

3.6.1 Preliminary experiments on selected crops under different lig...

Task	Owner	Status	Timeline	Duration	Dependent On	Planned Effort	Effort Spent
Protocol from Thoroston		Future steps	-		-		
+ Add task							
				Jun 1 - Nov 1	154 days sum	0 hours sum	0 hours sum

3.6.2 Experiments on the effect of CO2 enrichment under PV modules in th...

Task	Owner	Status	Timeline	Duration	Dependent On	Planned Effort	Effort Spent
Installation of monitoring equi...		Future steps	Oct 1, '25		-		
Installation of CO2 fumigatio...		Future steps	Mar 31 - Oct 31	215 days	-		
Data collection		Future steps	Nov 1, '23 - May 31, '25	578 days	-		
Deliverable- Testing report part		Future steps	Oct 20, '25	0 days	-		
+ Add task							
				Mar 31, '23 - Oct 20, '25	793 days sum	0 hours sum	0 hours sum

+ Add new group

3.7 Additional lighting as compensation possibility

Planning

Task	Owner	Status	Timeline	Dependent On	Planned Effort	Effort Spent	Completion I
Additional lighting as comp...			Sep 30, '23 - Mar 1, '25	-			Jan 18, 25
+ Add task							
				Sep 30, '23 - Mar 1, '25	0 hours sum	0 hours sum	

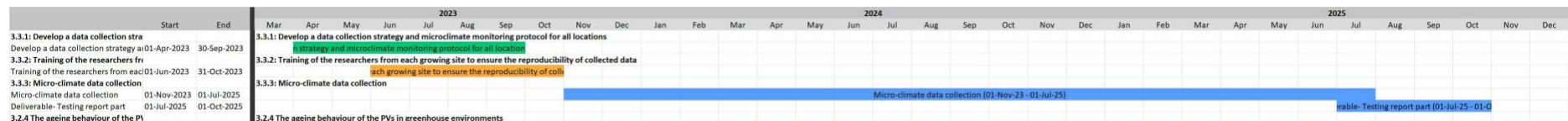
+ Add new group



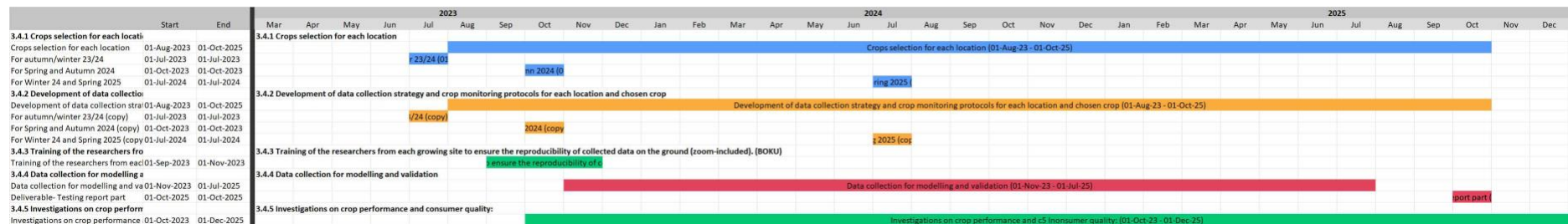
3.2. Modeling of the PV modules performance.



3.3: Greenhouse microclimate measurements inside the greenhouses



3.4 Crop monitoring inside the greenhouses



3.5 Greenhouse Water Efficiency

Start	End	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
3.5.1 Determination of water use efficiency for fully closed recirculating irrigation system (HUB)																								
Instruction by Thornton to Partners	01-May-2023																							
Set equipment type needed for this	01-May-2023																							
Determination of water use efficiency	01-Oct-2023																							
3.5.2 BOKU Determination of water consumption per yield unit depending on the use of PV modules (BOKU, UTH, UR, TRDC)																								

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3.6 CO2 enrichment as compensation possibility

Start	End	2023												2024												2025											
Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
3.6.1 Preliminary experiments on selected crops under different light and CO2 levels in phytoboxes																																					
Preliminary experiments on selected	01-Jun-2023																																				
Installation of CO2 fumigation & preliminary experiments	31-Mar-2023																																				
Data collection	01-Nov-2023																																				
Installation of monitoring equipment	01-Oct-2025																																				
Deliverable- Testing report part	20-Oct-2025																																				

3.7 Additional lighting as compensation possibility

Start	End	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Additional lighting as compensation	30-Sep-2023																										
Planning	01-Mar-2025																										



WP 4 Modelling and Digital Twins

Lead partner Tor Vergata

This work package has specific challenges in the unity and applicability of data leading up to the digital twins which aims to provide a predictive framework for future application on the technology in diverse conditions

4.2 Dynamic modelling of the greenhouse microclimate and energy demand

4.1 Bifacial PV characterization

Task	Owner	Status	Timeline	Dependent On	Planned Effort	Effort Spent	Completion Status
Bifacial PV characterization		Working on it	Jul 1, '23 - Feb 3, '24	-			
+ Add task			Jul 1, '23 - Feb 3, '24		0 hours sum	0 hours sum	N/A

Dynamic modelling of the greenhouse microclimate and energy demand

Task	Owner	Status	Timeline	Dependent On	Planned Effort	Effort Spent	Completion Status	3.3: Green
4.2.1: State of the art of greenh...		Working on it	Mar 25 - Apr 30	-				
4.4.2: Identification and testing ...		Working on it	Mar 1 - Oct 31	-				
4.1.3: Definition of the environm...		Future steps	Sep 1 - Nov 30	-				
4.1.4: Acquisition of the real gre...		Future steps	Jun 1, '23 - Dec 31, '24	-				
4.1.5: Mapping of available data ...		Future steps	Sep 1, '23 - Mar 31, '24	-				
4.1.6: Definition of data format f...		Future steps	Nov 1, '23 - Jan 31, '24	-				
4.1.7: Start of data acquisition fr...		Future steps	Mar 31, '24 - Jan 1, '26	-				
4.1.8: Initial simulation with synt...		Future steps	Nov 1, '23 - Jul 31, '24	-				
4.1.9: Definition of model for en...		Future steps	Jul 31, '24 - Feb 1, '25	-				
4.1.10: Model analysis with real ...		Future steps	Aug 1, '24 - Aug 1, '25	-				
4.1.11: Model validation and tuni...		Future steps	Mar 1, '25 - Nov 1, '25	-				
4.1.12: Final results and definitio...				-				

4.3 CFD modelling of the greenhouse microclimate

Planning

Task	Owner	Status	Timeline	Dependent On	Planned Effort	Effort Spent
4.2.1: State of the art of greenhouse simulation...	PC	Working on it	Feb 1 - Apr 30	-		
ST4.2.2: Identification and testing of the suitabl...	PC	Future steps	Apr 1 - Dec 1	-		
4.2.3: Definition of the environmental and buildi...	PC	Future steps	Oct 1 - Nov 30	-		
4.2.4: Acquisition of the real greenhouses desig...	PC	Future steps	Jul 1, '23 - Jul 1, '24	-		
4.2.5: Mapping of available data in terms of me...	PC	Future steps	Sep 1, '23 - Mar 31, '24	-		
4.2.6: Definition of data format for exchange	PC	Future steps	Nov 1, '23 - Mar 1, '24	-		
4.2.7: Start of data acquisition from the greenh...	PC	Future steps	Apr 1, '24 - Jan 31, '25	-		
4.2.8: Initial simulation with synthetic datasets	PC	Future steps	Nov 1, '23 - Aug 1, '24	-		
4.2.12: Final results and definition of optimal m...	PC	Future steps	Jun 1, '25 - Jan 31, '26	-		
+ Add task			Feb 1, '23 - Jan 31, '26		0 hours sum	0 hours sum

+ Add new group



4.4 Modelling of the PV modules performance

▼ Modelling of the PV modules performance

Task	Owner	Status	Timeline	Dependent On	Planned Effort	Effort Spent
4.3.1: State of the art PV bi...	[Avatar]	Working on it	Feb 1 - Apr 30	-		
4.3.2: Identification and testin...	[Avatar]	Future steps	Apr 1 - Nov 30	-		
4.3.3: Definition of the variabl...	[Avatar]	Future steps	Sep 1 - Nov 30	-		
4.3.4: Mapping of other availa...	[Avatar]	Future steps	Sep 1, '23 - Apr 30, '24	-		
4.3.5: Definition of data forma...	[Avatar]	Future steps	Nov 1, '23 - Mar 31, '24	-		
4.3.5: Definition of data forma...	[Avatar]	Future steps	Sep 30, '24 - Oct 31, '25	-		
4.3.7: Model validation and tu...	[Avatar]	Future steps	Mar 1, '25 - Sep 30, '25	-		
4.3.8: Final results and definiti...	[Avatar]	Future steps	Jun 1, '25 - Jan 31, '26	-		
+ Add task						
Feb 1, '23 - Jan 31, '26					0 hours sum	0 hours sum

4.5 Water efficiency modelling

▼ Modelling of the PV modules performance

Task	Owner	Status	Timeline	Dependent On	Planned Effort	Effort Spent
4.3.1: State of the art PV bi...	[Avatar]	Working on it	Feb 1 - Apr 30	-		
4.3.2: Identification and testin...	[Avatar]	Future steps	Apr 1 - Nov 30	-		
4.3.3: Definition of the variabl...	[Avatar]	Future steps	Sep 1 - Nov 30	-		
4.3.4: Mapping of other availa...	[Avatar]	Future steps	Sep 1, '23 - Apr 30, '24	-		
4.3.5: Definition of data forma...	[Avatar]	Future steps	Nov 1, '23 - Mar 31, '24	-		
4.3.5: Definition of data forma...	[Avatar]	Future steps	Sep 30, '24 - Oct 31, '25	-		
4.3.7: Model validation and tu...	[Avatar]	Future steps	Mar 1, '25 - Sep 30, '25	-		
4.3.8: Final results and definiti...	[Avatar]	Future steps	Jun 1, '25 - Jan 31, '26	-		
+ Add task						
Feb 1, '23 - Jan 31, '26					0 hours sum	0 hours sum

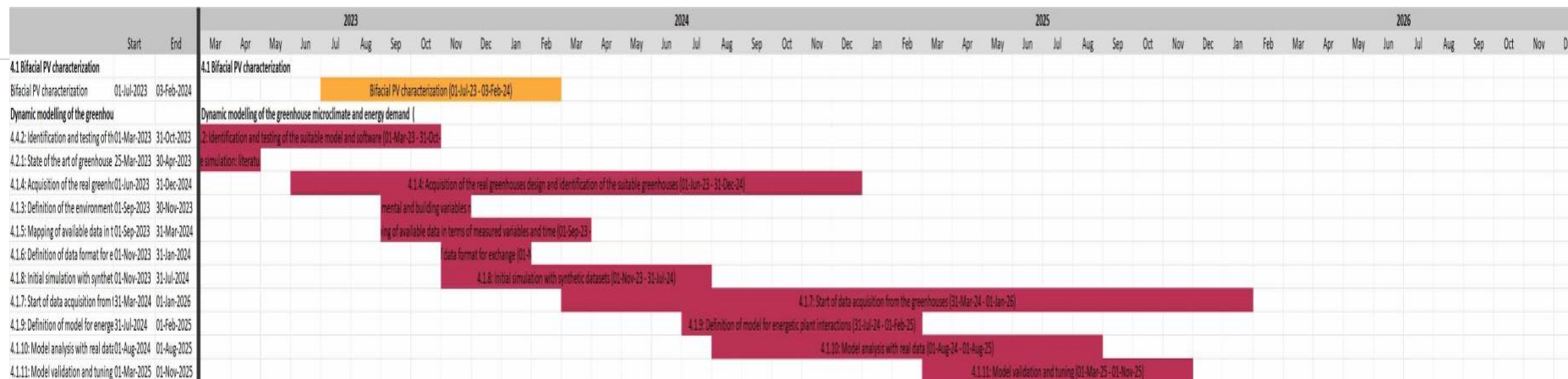
4.6 Digital Twins

▼ Task 4.6 Create a Digital Twin model of the system

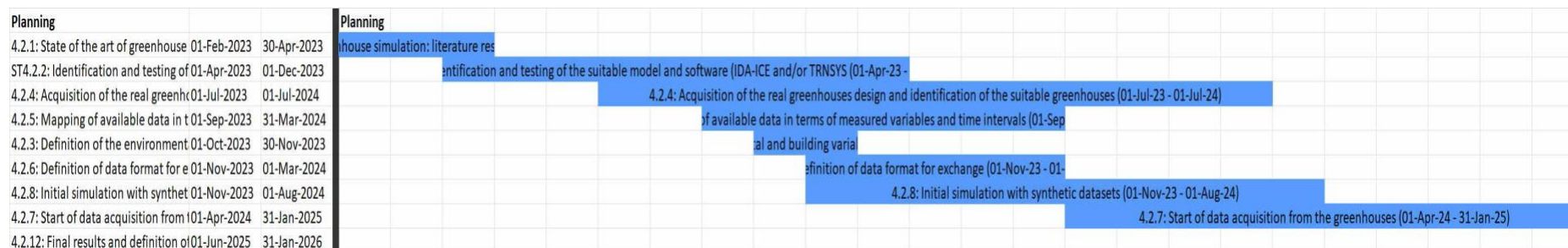
Task	Owner	Status	Timeline	Dependent On	Planned Effort	Effort
4.5.1: State of the art of energy, ...	[Avatar]	Working on it	Feb 1 - May 31	-		
4.5.2: Set-up and testing of synthe...	[Avatar]	Future steps	Apr 1 - Nov 30	-		
4.5.3: Set-up and testing of synthe...	[Avatar]	Future steps	Oct 1, '23 - May 31, '24	-		
4.5.4: Test of ML model for greenh...	[Avatar]	Future steps	Jan 1, '24 - Jul 31, '24	-		
Deliverable- Calibration of model	[Avatar]	Future steps	Aug 1, '24	-		
4.5.5: Test of ML model for PV bifa...	[Avatar]	Future steps	Aug 1, '24 - Feb 1, '25	-		
4.5.5: Test of ML model for PV bifa...	[Avatar]	Future steps	Mar 1, '25 - Sep 1, '25	-		
4.5.5: Test of ML model for PV bifa...	[Avatar]	Future steps	Aug 1, '24 - Feb 1, '25	-		
4.5.8: Implementation of Digital Tw...	[Avatar]	Future steps	Feb 1, '25 - Jan 31, '26	-		
Deliverable- 4.5.9: Testing and Vali...	[Avatar]	Future steps	Jan 31, '26	-		
+ Add task						
Feb 1, '23 - Jan 31, '26					0 hours sum	0 hours sum



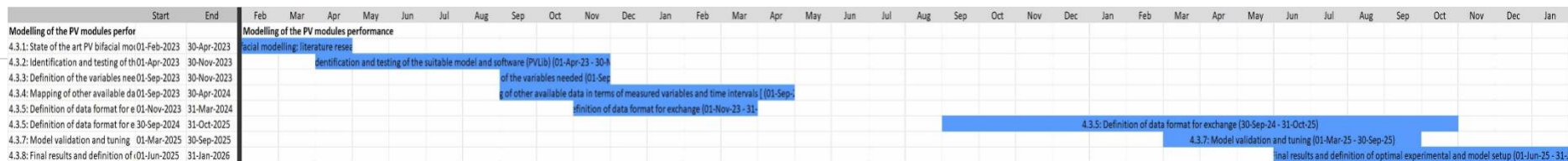
4.2 Dynamic modelling of the greenhouse microclimate and energy demand



4.3 CFD modelling of the greenhouse microclimate

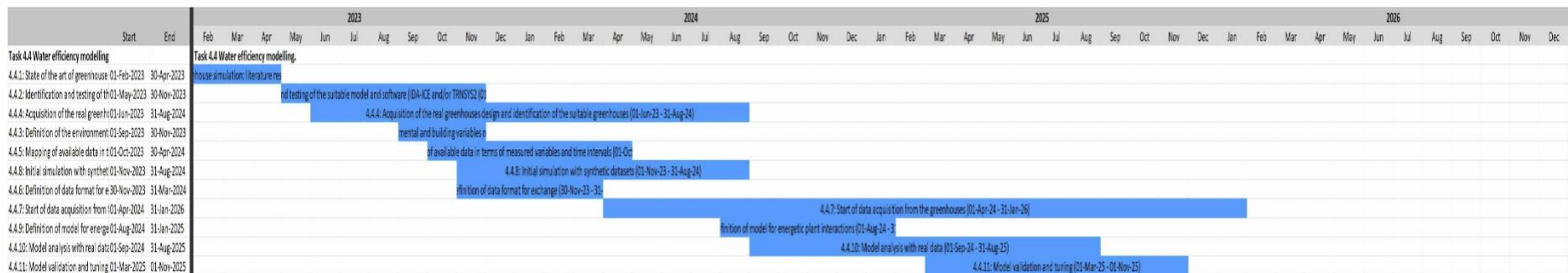


4.4 Modelling of the PV modules performance

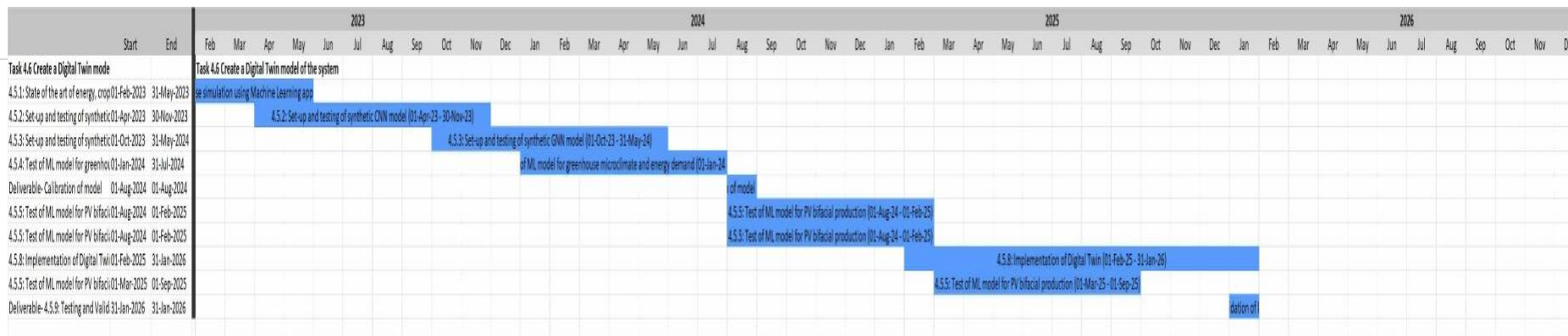


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4.5 Water efficiency modelling



4.6 Digital Twins



WP 5 Validation

Lead Partner Alzahrawy

The main vulnerability in this work package is its dependence on data d=generated in WP 2, 3, and 4

5.1. Define a common manual of procedures and methodologies to evaluate the system

✓ 5.1. Define a common manual of procedures and methodologies ...

Task	Owner	Status	Timeline	Dependent On	Comple
Define a common manual to evaluate the system	ME	Future steps	Feb 1, '24 - Oct 1, '24	-	Jan
Subitem					
Electrical evaluation met...			Apr 1, 2024		
Crop evaluation methodo...			Apr 1, 2024		
Microclimate evaluation ...	PC		Apr 1, 2024		
+ Add subitem					
Techno-economic evaluation	ME	Future steps	Oct 1, '24 - Jan 1, '25	-	
Collect data analysis of each partner	ME	Future steps	Sep 1 - Nov 30	-	
Deliverable- Procedures and methodologies to evaluate the system	ME	Future steps	Feb 1, '25	-	Fet
+ Add task					
			Sep 1, '23 - Feb 1, '25		

+ Add new group

5.2. Evaluate the system's feasibility, reliability, replicability, robustness, and ease of maintenance from an end user perspective

✓ 5.2. Evaluate the system's feasibility, reliability, replicability, robustness, an...

Task	Owner	Status	Timeline	Completion Date
Draft Questionnaire	ME	Future steps	Oct 1, '25 - Oct 31, '25	Dec 1, 2025
Receive questionnaire answers	ME	Future steps	Feb 1, '25 - Apr 30, '25	May 1, 2025
Analyze questionnaire results	ME	Future steps	May 1, '25 - Aug 1, '25	
+ Add task				
			Feb 1, '25 - Oct 31, '25	



5.3 Evaluate the system using the following KPIs: PV ground coverage ratio, electric yields, crop yields and water consumption

Planning

Task	Owner	Status	Timeline	Dependent On	Completion Date
Collect Input from all partners		Future steps	Feb 1, '25 - Apr 1, '25	-	
Subitem					
Assessment of data aris...	PC				
Assessment of data aris...					
Assessment of CO2 enr...					
Assessment of data aris...					
Assessment of PV elect...					
+ Add subitem					
System Evaluations	ME		Feb 1, '25 - Feb 1, '26	-	
Deliverable - system Evaluations	ME		Feb 1, '26	-	
+ Add task					
			Feb 1, '25 - Feb 1, '26		

5.4 Develop technical protocols that will allow introduction of the system (PV tracker and CO2 enrichment technologies) in low, medium and medium high insolation environments

Planning

Task	Owner	Status	Timeline	Dependent On	Completion Date	Co
Hire technical writers	ME	Future steps	Oct 1, '25 - Oct 31, '25	-	Jan 18, 2022	
Deliverable-- protocols	ME	Future steps	Oct 31, '25	Hire technical w...	Feb 1, 2022	
+ Add task						
			Oct 1, '25 - Oct 31, '25			

+ Add new group

5.1. Define a common manual of procedures and methodologies to evaluate the system

Start	End	2023												2024												2025											
		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
5.1. Define a common manual of pr		5.1. Define a common manual of procedures and methodologies to evaluate the system																																			
Collect data analysis of each partner	01-Sep-2023 - 30-Nov-2023	analysis of each partner (01-Sep-2023 - 30-Nov-2023)																																			
Define a common manual to evaluate	01-Feb-2024 - 01-Oct-2024	Define a common manual to evaluate the system (01-Feb-24 - 01-Oct-24)																																			
Electrical evaluation methodology	01-Apr-2024 - 01-Apr-2024	Electrical evaluation methodology (01-Apr-2024 - 01-Apr-2024)																																			
Crop evaluation methodology	01-Apr-2024 - 01-Apr-2024	Crop evaluation methodology (01-Apr-2024 - 01-Apr-2024)																																			
Microclimate evaluation methodolo	01-Apr-2024 - 01-Apr-2024	Microclimate evaluation methodology (01-Apr-2024 - 01-Apr-2024)																																			
Techno-economic evaluation	01-Oct-2024 - 01-Jan-2025	Techno-economic evaluation (01-Oct-24 - 01-Jan-25)																																			
Deliverable- Procedures and methoc	01-Feb-2025 - 01-Feb-2025	Procedures and methodologies to evaluate the system (01-Feb-25 - 01-Feb-25)																																			

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5.2. Evaluate the system’s feasibility, reliability, replicability, robustness, and ease of maintenance from an end user perspective

Start	End	2023												2024												2025											
		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
5.2. Evaluate the system's feasibility		5.2. Evaluate the system's feasibility, reliability, replicability, robustness, and ease of maintenance from an end user perspective																																			
Receive questionnaire answers	01-Feb-2025 - 30-Apr-2025	Receive questionnaire answers (01-Feb-25 - 30-Apr-25)																																			
Analyze questionnaire results	01-May-2025 - 01-Aug-2025	Analyze questionnaire results (01-May-25 - 01-Aug-25)																																			
Draft Questionnaire	01-Oct-2025 - 31-Oct-2025	Draft Questionnaire (01-Oct-25 - 31-Oct-25)																																			

5.3 Evaluate the system using the following KPIs: PV ground coverage ratio, electric yields, crop yields and water consumption

Start	End	2023												2024												2025											
		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Planning		Planning																																			
Collect Input from all partners	01-Feb-2025 - 01-Apr-2025	Collect Input from all partners (01-Feb-25 - 01-Apr-25)																																			
System Evaluations	01-Feb-2025 - 01-Feb-2026	System Evaluations (01-Feb-25 - 01-Feb-26)																																			
Deliverable - system Evaluations	01-Feb-2026 - 01-Feb-2026	Deliverable - system Evaluations (01-Feb-26 - 01-Feb-26)																																			

5.4 Develop technical protocols that will allow introduction of the system (PV tracker and CO2 enrichment technologies) in low, medium and medium high insolation environments

Start	End	2023												2024												2025											
		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Planning		Planning																																			
Hire technical writers	01-Oct-2025 - 31-Oct-2025	Hire technical writers (01-Oct-25 - 31-Oct-25)																																			
Deliverable-- protocols	31-Oct-2025 - 31-Oct-2025	Deliverable-- protocols (31-Oct-25 - 31-Oct-25)																																			



WP6: Sustainability (Environmental, economic and social)

This work package has two sections, the social aspect that deal with farmers and the second in environmental assessment. The challenge in the first section in mainly organizational. In the second in its dependency on data negated by experimental partners

6.1 Researcher training

▼ Researcher training

Task	Owner	Status	Timeline	Dependent On	Completion Date	Completion Status
Researcher training	AV		Mar 23 - Jul 1	-	Jul 1, 2022	
UTOV: definition of trainers' p...	AV	Done	Feb 1 - Mar 1	-	Mar 1	Done On Time ✓
In each country: 2 trainers are...	AV	Done	Mar 1 - Apr 30	-	Apr 30	Done On Time ✓
Design of the training progra...	AV	Working on it	Mar 1 - Apr 30	-	Apr 30	
Organisation/logistics of the L...	AV	Future steps	Apr 1 - 30	-	Apr 30	
Training session: (onsite + hy...	AV	Future steps	May 1 - 31	-	May 31	
Follow-up to the training sess...	AV	Future steps	Jun 1 - Jul 31	-	Jul 31	
Follow-up to the training sess...	AV	Future steps	Jun 1 - Jul 31	-	Jul 31	
+ Add task						
			Feb 1 - Jul 31			0 sum

+ Add new group

6.2 Analysis of farmers' mental and social representations of technology and

▼ Analysis of the mental and social representations of farmers in ge...

Task	Owner	Status	Timeline	Dependent On	Completion Date
> 10 non-standard qualitative interviews			Aug 1, '23 - Oct 1, '25	-	Jan 18, 2022
3 focus groups in each country			Oct 2, '25 - Dec 3, '27	10 non-standar...	Jan 20, 2022
+ Add task					
			Aug 1, '23 - Dec 3, '27		

▼ Selection of a group of 10 farmers for each partner country for:

Task	Owner	Status	Timeline	Dependent On	Completion Date
Selection of a group of 10 farmers for eac...			Aug 1, '23 - Oct 1, '25	-	
+ Add task					
			Aug 1, '23 - Oct 1, '25		

▼ Sentiment analysis on a body of text identified in the groups present on far...

Task	Owner	Status	Timeline	Dependent On
Sentiment analysis on a body of text ident...			Aug 1, '23 - Oct 1, '25	-
+ Add task				
			Aug 1, '23 - Oct 1, '25	

6.3 Participation

Planning							
Task	Owner	Status	Timeline	Duration	Dependent On	Planned	
> Participation			Jul 1, '23 - Nov 1, '25	855 days	-		
+ Add task							
			Jul 1, '23 - Nov 1, '25	855 days <small>sum</small>			

+ Add new group

6.4 Discussion, communication and dissemination of results

Planning							
Task	Owner	Status	Timeline	Dependent On	Completion Date	Comp	
> Discussion, communicatio...			Jun 1, '23 - Oct 1, '25	-	Jan 12, 2022		
Deliverable- Farmer Dialogue ...			Oct 1, '25	-	Feb 9, 2022		
+ Add task							
			Jun 1, '23 - Oct 1, '25				

+ Add new group

Environmental analysis

Task 6.6 Analysis of land impact from PV system

Task 6.6 Analysis of land impact from PV system							
Task	Owner	Status	Timeline	Dependent On	Completion Date		
Comparing an agri-voltaic greenhouse to a regular greenhouse	LA	Working on it	-	-			
Land needed to reach renewable goals	LA	Working on it	Feb 1 - Mar 31	-	Mar 31		
Available farmland analysis	LA	Working on it	Apr 1 - May 31	-	May 31		
Share of farmland available for agrivoltaics	LA	Working on it	Apr 1 - May 31	-	May 31		
share of energy goals achievable with AV	LA	Working on it	Jun 1 - Jul 31	-	Jul 31		
Greenhouse AV compared to ground PV analysis	LA		Jun 1 - Jul 31	-	Jul 31		
+ Add task							
			Feb 1 - Jul 31				

Task 6.7 Resource Efficiency Analysis

Task 6.7 Resource Efficiency Analysis 4 Tasks / 4 Subitems							
Task	Owner	Status	Timeline	Dependent On	Completion Date		
> 6.7.1. AV versus ordinary greenhouse comparison. 4	LA	Future steps	May 1, '23 - Feb 1, '26	-			
6.7.2 AV greenhouse vs AV plantation			-	-			
Construction materials analysis	LA	Working on it	Jun 1, '23 - Jul 31, '24	-	Jul 31, 2024		
Building and maintenance labor comparison	LA		Jun 1, '23 - Jul 31, '24	-	Jul 31, 2024		
+ Add task							
			May 1, '23 - Feb 1, '26				



Task 6.8 Circularity potential

▼ Task 6.8 Circularity potential

<input type="checkbox"/>	Task		Owner	Status	Timeline	Dependent On	Completion Date
<input type="checkbox"/>	3.1. Waste reduction		LA	Future steps	Jun 1, '23 - Jun 30, '24	-	Jul 31, 2024
<input type="checkbox"/>	3.2 solar energy impact		LA	Future steps	-	-	
<input type="checkbox"/>	+ Add task						
					Jun 1, '23 - Jun 30, '24		



6.1 Researcher training

Start	End	Jan-2023				Feb-2023				Mar-2023				Apr-2023				May-2023				Jun-2023				Jul-2023				
		29	5	12	19	26	5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18	25	2	9	16	23	30		
Researcher training		Researcher training																												
UTOV: definition of trainers' profile	01-Feb-2023	01-Mar-2023	Definition of trainers' profile + selection criteria (01-Feb-23)																											
In each country: 2 trainers are identified	01-Mar-2023	30-Apr-2023	In each country: 2 trainers are identified (01-Mar-23 - 30-Apr-23)																											
Design of the training programme	01-Mar-2023	30-Apr-2023	Design of the training programme (01-Mar-23 - 30-Apr-23)																											
Researcher training	23-Mar-2023	01-Jul-2023	Researcher training (23-Mar-23 - 01-Jul-23)																											
Organisation/logistics of the training	01-Apr-2023	30-Apr-2023	/logistics of the training session(s) in Rome (01-Apr-23)																											
Training session: (onsite + hybrid) Rome	01-May-2023	31-May-2023	on: (onsite + hybrid) Rome Spring School (01-May-23)																											
Follow-up to the training session: co	01-Jun-2023	31-Jul-2023	Follow-up to the training session: contextualisation of the participatory methodologies (01-Jun-23 - 31-Jul-23)																											
Follow-up to the training session: su	01-Jun-2023	31-Jul-2023	Follow-up to the training session: support to participants (01-Jun-23 - 31-Jul-23)																											

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6.2 Analysis of farmers' mental and social representations of technology

Start	End	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Analysis of the mental and social representations of farmers in general on technologies applied to agriculture and specifically on photovoltaics through for each partner country:																																					
10 non-standard qualitative interviews	01-Aug-2023	01-Oct-2023	10 non-standard qualitative interviews (01-Aug-23 - 01-Oct-23)																																		
3 focus groups in each country	02-Oct-2023	03-Dec-2023	3 focus groups in each country (02-Oct-23 - 03-Dec-23)																																		
Selection of a group of 10 farmers for each partner country for:																																					
Selection of a group of 10 farmers for each partner country for	01-Aug-2023	01-Oct-2023	Selection of a group of 10 farmers for each partner country for (01-Aug-23 - 01-Oct-23)																																		
Sentiment analysis on a body of text identified in the groups present on farmers' social media (Twitter and Facebook) and any online thematic forums on photovoltaics in agriculture																																					
Sentiment analysis on a body of text	01-Aug-2023	01-Oct-2023	Sentiment analysis on a body of text identified in the groups present on farmers' social media (Twitter and Facebook) and any online thematic forums on photovoltaics in agriculture (01-Aug-23 - 01-Oct-23)																																		

6.3 Participation

Start	End	2023												2024												2025												
		Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Planning		Planning																																				
Participation	01-Jul-2023	01-Nov-2025	Participation (01-Jul-23 - 01-Nov-25)																																			

6.4 Discussion, communication and dissemination of results

Discussion, communication and dissemination of results (01-Jun-23 - 01-Oct-25)																																					
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



6.5 Evaluation of change in mental and social representations with Environmental tasks

Start	End	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Planning		Planning																									
Evaluation of change in mental and social representations	01-Oct-2025																										01-Oct-2025
Deliverable- Farmer Dialogue report	01-Oct-2025																										01-Oct-2025
Task 6.6 Analysis of land impact from PV system		Task 6.6 Analysis of land impact from PV system																									
Renewable goals (01)		Renewable goals (01)																									
Land needed to reach renewable goals	01-Feb-2023																										
Available farmland analysis	01-Apr-2023																										
Share of farmland available for agrivoltaics	01-Apr-2023																										
Share of energy goals achievable with agrivoltaics	01-Jun-2023																										
Greenhouse AV compared to ground PV analysis	01-Jun-2023																										
Task 6.7 Resource Efficiency Analysis		Task 6.7 Resource Efficiency Analysis																									
6.7.1 AV versus ordinary greenhouse comparison	01-May-2023																										
Get protocol from Vienna	30-Apr-2023																										
Water usage per land unit	01-Feb-2024																										
Yield comparison	01-Feb-2024																										
Pesticide study (Israel)	01-Feb-2024																										
Construction materials analysis	01-Jun-2023																										
Building and maintenance labor comparison	01-Jun-2023																										
Task 6.8 Circularity potential		Task 6.8 Circularity potential																									
3.1. Waste reduction	01-Jun-2023																										



WP 7 Innovation Management

WP leader Interteam

The main challenge in this work package is in adapting the business plan to different regulatory and business conditions in different locations

7.1: Innovation Management

7.1: Innovation Management

Task	Owner	Status	Timeline	Dependent On	+
develop a project-specific inn...		Future steps	Feb 1, '24 - Jan 31, '26	-	
+ Add task			Feb 1, '24 - Jan 31, '26		

7.2 Business case analysis

Task	Owner	Status	Timeline	Dependent On	+
Desk research of business case		Future steps	Feb 1, '24 - Jun 1, '24	-	
Market players interviews		Future steps	Jun 1, '24 - Nov 1, '24	-	
Business case deliverable		Future steps	Jan 31, '26	-	
+ Add task			Feb 1, '24 - Jan 31, '26		

7.3: Innovative business models

Task	Owner	Status	Timeline	Dependent On	+
Innovative business models		Future steps	Sep 1, '24 - Aug 31, '25	-	
Stakeholder workshop		Future steps	Oct 1, '24 - Nov 30, '24	-	
Regulatory deliverable		Future steps	Dec 1, '25 - Jan 31, '26	-	
+ Add task			Sep 1, '24 - Jan 31, '26		

7.4 Exploitation and business plans

Task	Owner	Status	Timeline	Dependent On	+
Exploitation and business plans		Future steps	Mar 1, '25 - Jan 31, '26	-	
+ Add task			Mar 1, '25 - Jan 31, '26		

7.5: Legal Issues Analysis

Task	Owner	Status	Timeline	Dependent On	+
Legislation review		Future steps	Jan 31, '26 - Feb 27, '26	-	
+ Add task			Jan 31, '26 - Feb 27, '26		

7.6: Intellectual Property Management

Task	Owner	Status	Timeline	Dependent On	+
Intellectual Property Manage...		Future steps	Feb 1, '23 - Jan 31, '26	-	
+ Add task			Feb 1, '23 - Jan 31, '26		



WP8: Dissemination & Visibility

WP leader Interteam

Judging from the good start made in this WP there are not many challenges in it\

8.1 Design and development of project identity & website

Task	Owner	Status	Timeline	Dependent On	Plan
Design and development of project identity & website		Done	Feb 1 - Jul 31	-	
+ Add task			Feb 1 - Jul 31		0 h

8.2 The development of a comprehensive Outreach, Communication and ...

Task	Owner	Status	Timeline	Dependent On	Plan
The development of a comprehensive Outreach, Communicati...		Working on it	Feb 1, '23 - Feb 1, '26	-	
Deliverable No 1		Future steps	Aug 1	-	
Deliverable No 2		Future steps	Oct 31, '24	-	
Deliverable No 3		Future steps	Jan 31, '26	-	
+ Add task			Feb 1, '23 - Feb 1, '26		0 h

8.3 Graphics and communications materials toolbox

Task	Owner	Status	Timeline	Dependent On	Pl
Graphics and communications materials toolbox		Done	Feb 1, '23 - Feb 1, '26	-	
Milestone - Execution			Feb 2, '26	The developme...	
+ Add task			Feb 1, '23 - Feb 2, '26		

8.4 Communication plan for promoting agrivoltaics

Task	Owner	Status	Timeline	Dependent On	Pl
Communication plan for promoting agrivoltaics		Working on it	Feb 1, '23 - Feb 1, '26	-	
+ Add task			Feb 1, '23 - Feb 1, '26		

8.5 Networking & Clustering

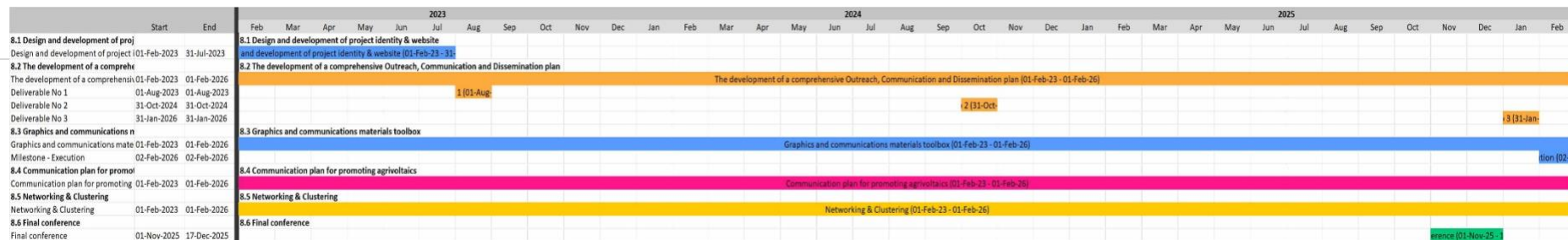
Task	Owner	Status	Timeline	Dependent On	Plar
Networking & Clustering		Future steps	Feb 1, '23 - Feb 1, '26	-	
+ Add task			Feb 1, '23 - Feb 1, '26		

8.6 Final conference

Task	Owner	Status	Timeline	Dependent On	Plar
Final conference		Future steps	Nov 1, '25 - Dec 17, '25	-	
+ Add task			Nov 1, '25 - Dec 17, '25		



WP8: Dissemination & Visibility



WP9: Project Management

WP leader Alzahrawy

The main challenge in this work package in maintaining consistently proficient management throughout the entire three years

9.1 Consortium operating procedures definition & quality assurance

Task	Owner	Status	Timeline	Completion Date	Dependent On
Deliverable-Consortium operati...			Apr 30		-
+ Add task			Apr 30		

Project Management Plan

Task	Owner	Status	Timeline	Completion Date	Dependent On
Detailed Project Management PL...	ME	Done	Feb 1 - Mar 31		Appoint author...
Appoint author and reviewer to ...	ME	Done	Feb 12 - 13	Feb 12	-
Deliverable- PM Plan	ME	Done	Mar 31		-
+ Add task			Feb 1 - Mar 31		

9.2 Project coordination and day-to-day management

Task	Owner	Status	Timeline	Completion Date	Dependent On
+ Add task			Feb 1, '23 - Jan 31, '26		

9.3 Consortium meetings

Task	Owner	Status	Timeline	Completion Date	Dependent On
7 Tasks			Feb 1, '23 - Feb 1, '26		

9.4 Data management

Task	Owner	Status	Timeline	Completion Date	Dependent On
Deliverable-Data management P...			Apr 30	Jan 18, 2022	-
+ Add task			Apr 30		

9.5 Project risk management

Task	Owner	Status	Timeline	Completion Date	Dependent On
Project risk management			Feb 1, '23 - Jan 31, '26	Jan 18, 2022	-
+ Add task			Feb 1, '23 - Jan 31, '26		



WP9: Project Management

Start	End	2023												2024												2025												
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
9.1 Consortium operating procedure																																						
Deliverable-Consortium operating p	30-Apr-2023	30-Apr-2023																																				
Project Management Plan																																						
Detailed Project Management Plan	01-Feb-2023	31-Mar-2023																																				
Appoint author and reviewer to DPM	12-Feb-2023	13-Feb-2023																																				
Deliverable - PM Plan	31-Mar-2023	31-Mar-2023																																				
9.2 Project coordination and day-to-day management																																						
Project coordination and day-to-day	01-Feb-2023	31-Jan-2026																																				
9.3 Consortium meetings																																						
Report 1 on consortium meetings	01-Feb-2023	01-Feb-2023																																				
Report 2 on consortium meetings	01-Aug-2023	01-Aug-2023																																				
Report 3 on consortium meetings	01-Feb-2024	01-Aug-2024																																				
Report 4 on consortium meetings	01-Aug-2024	01-Aug-2024																																				
Report 5 on consortium meetings	01-Feb-2025	01-Feb-2025																																				
Report 6 on consortium meetings	01-Aug-2025	01-Aug-2025																																				
Report 7 on consortium meetings	01-Feb-2026	01-Feb-2026																																				
9.4 Data management																																						
Deliverable-Data management Plan	30-Apr-2023	30-Apr-2023																																				
9.5 Project risk management																																						
Project risk management	01-Feb-2023	31-Jan-2026																																				

