



SOPHIA

Sustainable Off-grid solutions for
Pharmacies and Hospitals In Africa

DISSEMINATION, COMMUNICATION AND CAPACITY BUILDING STRATEGY PLAN (M36)

DELIVERABLE D8.4

VERSION 3.0

PROJECT ACRONYM	SOPHIA
PROJECT TITLE	SUSTAINABLE OFF-GRID SOLUTIONS FOR HOSPITALS AND PHARMACIES IN AFRICA
FUNDED UNDER	H2020-EU.3.3
PROJECT URL	http://www.sophia4africa.eu/
COORDINATOR	UNIVERSITY OF APPLIED SCIENCES KARLSRUHE (HKA)
PROJECT DURATION	01/10/2021 – 30/09/2025 (48 MONTHS)



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101036836.

SOPHIA CONSORTIUM

NO.	BENEFICIARY	ADDRESS	MAIN CONTACT
1	 	HOCHSCHULE KARLSRUHE (HKA) Moltkestr. 30, DE-76133 Karlsruhe, Germany	Coordinator: Prof. Dr.-Ing. habil. Michael Kauffeld michael.kauffeld@h-ka.de
2		OST - OSTSCHWEIZER FACHHOCHSCHULE (SPF-OST) Oberseestrasse 10, CH-8640 Rapperswil, Switzerland	Dr. Mihaela Dudita mihaela.dudita@ost.ch
3		MAKERERE UNIVERSITY (MAK) Main Campus, PO Box 7072, 256 Kampala, Uganda	Prof. Dr. Nicholas Kiggundu kiggundu@caes.mak.ac.ug
4		FONDATION 2iE ASSOCIATION (2iE) Rue de la Science, PO Box 01BP594, 01 Ouagadougou, Burkina Faso	Dr.-Ing. habil. Kokouvi Edem N'Tsoukpoe edem.ntsoukpoe@2ie-edu.org
5		STEINBEIS INNOVATION GMBH (SEZ) Steinhäuserstr. 12, DE-76135 Karlsruhe, Germany	Dr. Anthony Salingre anthony.salingre@steinbeis-europa.de
6		MINISTERE DE LA SANTE PUBLIQUE (MPHC) Boulevard Rudolph Manga Bell Yaounde, Cameroon	Ms. Jeanne Aurélie Abomo Ayinda aureliejeannea@yahoo.fr
7		INSTITUT INTERNATIONAL DU FROID (IIR) Boulevard Malesherbes 177, FR-75017 Paris, France	Ms. Ina Colombo i.colombo@iifiir.org
8		OPERIEREN IN AFRIKA EV (Oia) Wirthstrasse 11, DE-79110 Freiburg, Germany	Prof. Bernhard Rumstadt b.rumstadt@gmail.com
9		EVERFLO(PTY)LTD (EVERFLO) 10 McLaren Way Racing Park, 7441 Milnerton, South Africa	Mr. Evert Potgieter evert@everflo.co.za
10		KOVCO PTY LTD (KOVCO) Century City, PO Box 134, 7446 Century City, South Africa	Mr. Brendan Prestage bprestage@kovco.co.za
11		MARTIN SYSTEMS GMBH (MS) Address: Friedrichstrasse 95, DE-10117 Berlin, Germany	Dr.-Ing. Jose Ordonez jose-ordonez@martin-systems.com
12		SIMPLY SOLAR SCHEFFLER TECHNOLOGIES AND CONSULTING (SISO) Graf von Werdenbergstrasse 6, DE- 89344 Aislingen, Germany	Ms. Heike Hoedt h.hoedt@simply-solar.de
13		RAACH SOLAR GMBH (RS) Stellwinkel 1, DE-88451 Dettlingen an der Iller, Germany	Mr. Jürgen Raach juergen.raach@raachsolar.com

DOCUMENT INFORMATION

RESPONSIBLE PARTNER	IIR
AUTHOR (S)	Ina Colombo (IIR), Francisca Rodrigues (IIR), Kodjo Sédi Agbokou (2iE), Kokouvi Edem N'Tsoukpoe (2iE), Kirsten Laaks (Everflo), Sophie von Stralendorff (SEZ), Frederick von Netzer (SEZ)
REVIEW	Mihaela Dudita-Kauffeld (SPF-OST)
APPROVAL	Mihaela Dudita-Kauffeld (SPF-OST)
KEYWORDS	Communication and dissemination, capacity building
DISSEMINATION LEVEL ¹	PU
DUE DATE OF DELIVERABLE	30/09/2024
ACTUAL SUBMISSION DATE	30/09/2024

¹PU = Public

PP = Restricted to other program participants (including the Commission Services)

RE = Restricted to a group specified by the consortium (including the Commission Services)

CO = Confidential, only for members of the consortium (including the Commission Services)*

DOCUMENT HISTORY

DATE	VERSION	CHANGE HISTORY
29/09/2023	1.0	First version submitted to EC
30/09/2024	2.0	Second version submitted to EC
09/09/2025	3.0	Third version submitted to EC

TABLE OF CONTENTS

SOPHIA CONSORTIUM	2
DOCUMENT INFORMATION.....	3
DOCUMENT HISTORY	3
EXECUTIVE SUMMARY	7
1. Introduction	8
2. Communication, Dissemination And Capacity Building Work Package.....	9
2.1 WP 8 deliverables and tasks	9
2.2 Partners involved in WP8	12
3. The Communication, Dissemination and Capacity Building Strategy Plan Review	13
3.1 The Communication Strategy Plan	13
3.1.1 Communication tools	13
3.1.2 Communication Support Materials	21
3.1.3 Communication timeline and KPIs	26
3.2 The Dissemination Strategy Plan	28
3.2.1 Dissemination monitoring tool.....	29
3.2.2 Dissemination activities.....	35
3.2.3 Scientific Publications	36
3.2.4 Events	36
3.2.5 Timeline	37
4. Capacity Building and Knowledge Exchange Network.....	39
4.1 Capacity Building Strategy	39
4.1.1 Demonstration Site Launch Days and Seminars	39
4.1.2 Handbook for building SophiA systems on-site	40
4.1.3 Educational and training sessions.....	42
4.1.4 SophiA Knowledge Exchange Network.....	46
4.1.5 Capacity building timeline	50
5. Conclusions.....	52



LIST OF FIGURES

Figure 1: Combination between communication, dissemination and capacity building.....	10
Figure 2: Detailed actions for communication, dissemination and capacity building.....	12
Figure 3: Events' webpage	14
Figure 4: Upcoming Events' webpage	14
Figure 5: Downloads' webpage	15
Figure 6: SophiA Video/Downloads webpage.....	15
Figure 7: SophiA introductory video on Youtube.....	18
Figure 8: SophiA Happy New Year 2024 video on YouTube	18
Figure 9: Additional short videos	19
Figure 10: SophiA introductory in Julia voiceover	19
Figure 11: Videos on the Scheffler reflectors' technologies	20
Figure 12: Videos on the arrival of SophiA in Burkina-Faso.....	20
Figure 13: Video on the SophiA PVmedPort technology.....	21
Figure 14: SophiA flyer in French	22
Figure 15: List the Newsletters in different languages	22
Figure 16: The fourth SophiA newsletter (available online).....	23
Figure 17: 9 th e-SophiA new on the website.	24
Figure 18: List of e-SophiA News and latest e-SophiA News.....	24
Figure 19: "Article" tab, "Downloads" category with the latest e-SophiA News.....	25
Figure 20: SOFACT n.° 5.	25
Figure 21: SophiA Cup X post.....	26
Figure 22: Suggested timeline for the communication materials.....	27
Figure 23: Read me first worksheet of the MT	29
Figure 24: Macros worksheet of the MT	30
Figure 25: KPI worksheet of the MT	31
Figure 26: Website publications worksheet of the MT.....	31
Figure 27: Events worksheet of the MT	32
Figure 28: Scientific publications worksheet of the MT	32
Figure 29: Dissemination activities worksheet of the MT	33
Figure 30: So Me worksheet of the MT.....	33
Figure 31: Upcoming events worksheet of the MT.....	34
Figure 32: Planned Publications worksheet of the MT	35
Figure 33: Suggested timeline for the capacity building materials.....	37
Figure 34: Inauguration day at Léo hospital.....	40
Figure 35: Examples of Chapters of the handbook	42
Figure 36: First local training schedule in Burkina Faso, June 23 – June 28, 2024	43
Figure 37: Launch of the first training session for local technicians in Burkina Faso	44
Figure 38: Water treatment training class	44
Figure 39: Practical work on local simple and vacuum tube solar water heaters.....	44
Figure 40: Training participants taking part in the inauguration ceremony in Léo.....	45
Figure 41: Awarding of certificates to participants of the SophiA training.....	45
Figure 42: Group photo with participants and trainers in Leo, June 28, 2024.....	46
Figure 44: Suggested timeline for the capacity building materials.....	50



LIST OF TABLES

Table 1: List of deliverables planned within WP8.....	11
Table 2. Partners involvement and roles in WP8.	12
Table 3: Numbers of Downloads	16
Table 4: Social media subscribers.....	17
Table 5: Communication KPIs to date from the SophiA Monitoring tool	28
Table 6: List of Dissemination activities	35
Table 7: List of the Scientific Publications.....	36
Table 8: List of Events.....	36
Table 9: Dissemination KPIs to date from the SophiA Monitoring tool	38
Table 10: Capacity building KPIs to date from the SophiA Monitoring tool.....	51



EXECUTIVE SUMMARY

SophiA project aims to provide sustainable off-grid energy supplies and clean drinking water for rural and remote health facilities in Africa, thereby accelerating the sustainable development, growth and economic transformation, and ensuring improved access to energy and health services for all. SophiA will develop and locally manufacture innovative, modular, flexible, affordable and efficient solar containers to provide the local population in four rural health centres located in four different climatic regions where help is most needed, offering sustainable solutions adapted to the African context and then transferable to the whole of Sub-Saharan Africa. Led by Hochschule Karlsruhe (HKA), the SophiA consortium consists of 13 project partners from three European countries (France, Germany and Switzerland) and four African countries (Burkina Faso, Cameroon, South Africa and Uganda).

This report was made within the frame of Work Package 8 “Communication, Dissemination, and Capacity Building”, led by the International Institute of Refrigeration. Its purpose is to formalise all dissemination actions planned for the project, to provide guidelines on the approach and to set out the key dates associated with planned events. The aim of this strategy review is to make sure that the goals of the D8.1 initial strategy on the communication, dissemination and capacity building are reached. The strategy on the communication, dissemination and capacity building adopted by the SophiA partners is to ensure that information is shared with appropriate audiences on a timely basis using the most effective mean and that the maximum return on investment is provided for all financing parties – the consortium partners and the European Commission.

This document is an updated version of deliverable D8.3 and it includes the activities performed to guarantee maximal dissemination of the project’s results from M24 (September 30th, 2023) until M36 (September 30th, 2024). The website has been updated since M24 with a lot of different communication support material such as Newsletters/e-Newsletters, scientific publications, SOFACTS, Newsflash, and news articles. Using these communication support materials, the consortium partners have so far participated in approximately 80 events promoting SophiA and are planning on participating in more than 15 upcoming events until the end of the project. The partners published 15 scientific publications, all available in open access.

The D8.4 Communication, Dissemination and Capacity Building Strategy Plan Review (M36) is a living document, to be lastly updated for the last time in M48 as the Final Dissemination, Communication, Capacity.



1. INTRODUCTION

SophiA aims to provide sustainable off-grid energy supplies and water free of bacteria and viruses for rural and remote health facilities in Africa, thereby accelerating the sustainable development, growth and economic transformation, and ensuring improved access to energy and health services for all.

Using various technologies, such as photovoltaics, solar thermal, electrical and thermal storage, water treatment and natural refrigerants with low global warming potential, SophiA will develop and manufacture locally innovative, modular, affordable and efficient solar powered systems for providing:

- safe and clean drinking water, free of bacteria and viruses, and deionised water for medical purposes;
- hot water and steam production for thermal requirements of the hospitals;
- cooling of medicines and food at +5°C;
- low temperature storage of blood plasma and vaccines at -30°C;
- ultra-low temperature storage of sensitive medication (e.g. some Covid-19 or Ebola vaccines) at -70°C.

In addition, PV MedPort, a simple and 100% solar-powered solution will be developed and tested as a mobile health care station in small remote areas in 4 different geographical conditions in Africa.

SophiA systems will be manufactured in Africa and will provide for the first-time innovative solutions based on climate-friendly natural refrigerants to cover cooling demand for three different temperature ranges (-70°C, -30°C and +5°C). The systems will be tested and demonstrated at four rural hospitals in remote regions throughout the African continent covering the major geographical regions and different climatic conditions in Burkina Faso, Cameroon, Malawi and Uganda.

This report describes the M36 update of the communication, dissemination and capacity building strategy, including the main tools and channels used in the project to address different target audiences. It is a living document that will be further updated to incorporate the project developments.



2. COMMUNICATION, DISSEMINATION AND CAPACITY BUILDING WORK PACKAGE

The project progress and results are communicated and disseminated to our target and key actors. The communication, dissemination and capacity building strategy plan developed within WP8 ensures that the results reach the right target audience in a format and at a time that increases awareness about the SophiA project.

The main objectives of WP8 are:

- to raise interest about SophiA concepts to potential stakeholders in Europe and Africa;
- to give visibility to SophiA objectives, activities and benefits;
- to raise awareness about SophiA aims, evolution and results through different communication channels;
- to show external actors how they will/could benefit from the innovative results of the SophiA project and/or how they can integrate these results in their future research activities or commercial products;
- to strengthen the partners' reputation in their communities on regional, national, and international level;
- to engage key stakeholders and decision makers from Uganda, Cameroon, Burkina Faso, Malawi and other African countries;
- to facilitate know-how and technology transfer;
- to pave the way for a future uptake of SophiA through addressing the different target groups with tailored methods.

2.1 WP 8 deliverables and tasks

A good coordination between the three activities shown in Figure 1 will ensure the achievement of project targets.

The tasks planned within WP8 are covering the entire project period of 48 months and support all other on-going activities:

- Task 8.1: Development of the Communication, Dissemination and Capacity Building Strategy Plan (IIR, all partners) (M1-M4);



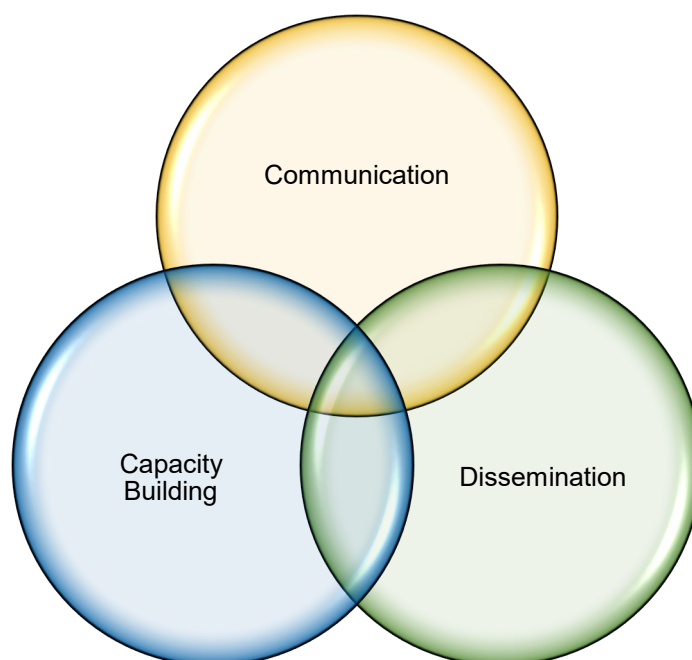


Figure 1: Combination between communication, dissemination and capacity building.

- Task 8.2: Development of the visual identity, website, production of communication supports and delivery of communication activities (IIR, all partners) (M1-M48);
- Task 8.3: Organisation and/or participation in workshops, conferences, exhibitions and trade shows in national, regional and international events (IIR, all partners) (M12-M48);
- Task 8.4: Organisation of demonstration site launch days and seminars (IIR, all partners) (M24-M48);
- Task 8.5: Elaboration of a handbook for building SophiA systems on-site (Everflo, all partners) (M18 – M46);
- Task 8.6: Educational and technical training sessions (2iE, all partners) (M24-M48);
- Task 8.7: Scientific publications, articles in specialised magazines and press releases (IIR, all partners) (M12-M48);
- Task 8.8: Development of the Knowledge Exchange Network (SEZ, all partners) (M6-M48).

The deliverables planned within WP 8 are presented in Table 1. Detailed actions within different tasks for communication, dissemination and capacity building are presented in Figure 2.



D8.4: Communication, dissemination, and capacity building strategy plan

Table 1: List of deliverables planned within WP8.

Deliverables	Type	Due date	Submitted	Lead
D8.1 Dissemination, Communication and Capacity Building Strategy (IIR, M4)	Public	M4	18/02/22	IIR
D8.2 Dissemination, Communication and Capacity Building Strategy Plan Review (M12)	Public	M12	04/10/2022	IIR
D8.3 Dissemination, Communication and Capacity Building Strategy Plan Review (M24)	Public	M24	29/09/2023	IIR
D8.4 Dissemination, Communication and Capacity Building Strategy Plan Review (M36)	Public	M36	Not Yet	IIR
D8.5 Final Dissemination, Communication and Capacity Building Strategy Plan (M48)	Public	M48	Not Yet	IIR
D8.6 SophiA training manuals	Confidential	M48	Not Yet	2iE
D8.7 Handbook for building SophiA systems on-site 1st edition	Public	M31	Not Yet	Everflo
D8.8 Handbook for building SophiA systems on-site 2nd edition	Public	M48	Not Yet	Everflo



Communication

- Target groups (Task 8.1)
- Key messages and information package (Task 8.1)
- Visual identity and branding (Task 8.1 and 8.2)
- Communication tools and support materials: Word and PowerPoint templates, brochures, poster, newsletters, e-newsletters, website, videos, social media (Task 8.1 and 8.2)

Dissemination

- Dissemination events: workshops, conferences, exhibitions, tradeshow and final conference (Task 8.3)
- Demonstration site launch days, seminars (Task 8.4)
- Scientific and technical publications (Task 8.7)
- Press releases (Task 8.7)

Capacity Building

- Handbook for building SophiA systems on-site 1st and 2nd edition (Task 8.5)
- Training sessions and show rooms (Task 8.6)
- Demonstration site launch days, seminars (Task 8.4)
- Knowledge Exchange Network (Task 8.8)

Figure 2: Detailed actions for communication, dissemination and capacity building.

2.2 Partners involved in WP8

The communication and dissemination tasks within WP8 (Tasks 8.1, 8.2, 8.3, 8.4 and 8.7) are led by IIR, while capacity building tasks are led by EVERFLO (Task 8.5), 2iE (Task 8.6) and SEZ (Task 8.8). WP8 is based on an interactive collaboration between all partners. An overview about the level of involvement of partners in WP8 activities is given in Table 2.

Table 2. Partners involvement and roles in WP8.

Project Partner – short name	Role
HKA	WP contributor
SPF-OST	WP contributor
MAK	WP contributor
2iE	Task leader
SEZ	Task leader
MPHC	WP contributor
IIR	Work Package leader
OiA	WP contributor
EVERFLO	Task leader
KOVCO	WP contributor
MS	WP contributor
SISO	WP contributor
RS	WP contributor



3. THE COMMUNICATION, DISSEMINATION AND CAPACITY BUILDING STRATEGY PLAN REVIEW

The deliverable (D8.1) provided guidelines for all communication, dissemination and capacity building actions planned for the project. It also included actions to transfer knowledge obtained from the project results to each target audience. Moreover, it described the capacity building plan. The first update (D8.2) presented a review of several actions related to three main activities from WP8 (communication, dissemination and capacity building) to maximise the project scope, framework and results visibility. It contained a description of all dissemination activities that took place during the first year of the project. The second update (D8.3) included new activities and results such as updates on SophiA's technologies on the official website or analysis on the growth of followers on SophiA's social medias.

The present third update for the communication, dissemination and capacity building strategy plan consists in presenting the foregoing actions to promote the SophiA project.

3.1 The Communication Strategy Plan

The SophiA project communication is a key element to guarantee a large visibility of the project scope and to ensure that relevant stakeholders are reached at a wide extent. Both the communication and dissemination strategies are developed in a way to maximize the use of existing physical meeting points (conferences, trade fairs, seminars, workshops, etc.), software tools (website, publications, etc.), as well as existing communication platforms and media channels.

3.1.1 Communication tools

Website

The website SophiA has not been modified since the M24 however the webpages "Events" "Upcoming Events" have been regularly updated with input of past and future events promoted in the SophiA social medias with to the respective webpages.



D8.4: Communication, dissemination, and capacity building strategy plan

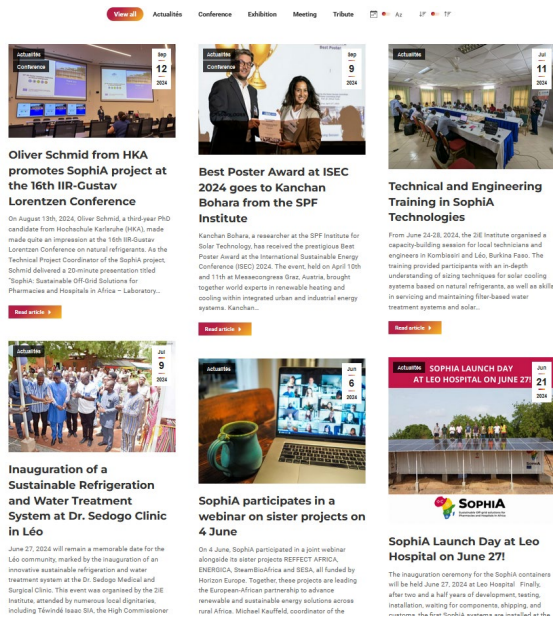


Figure 3: Events' webpage

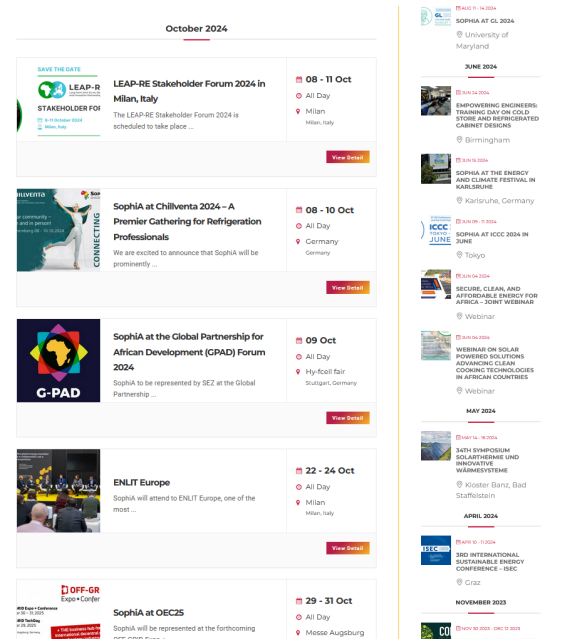


Figure 4: Upcoming Events' webpage

According to Google estimates, the SophiA website has had 2,700 visitors since April 1, 2022, with a projected total of 3,150 visitors based on an average of 150 visits per month.

The different tabulations of the “Downloads” webpage has been uploaded with various documents such academic papers, SOFACTs, Newsletters, public deliverables.



Articles	Brochures	Videos	Newsletter	SophiA Reports
Press Releases: • Press Release – November 2nd, 2021 – Participants of the international EU research project SophiA support family of the deceased African pioneer. – English version: Press release (Nov. 2021) / French version: Communiqué de presse (nov. 2021) / German version: Pressemitteilung (Nov. 2021) • Press Release – October 20, 2021 – New EU funded project began on October 1st, 2021: "SophiA – Sustainable off-grid solutions for pharmacies and hospitals in Africa". – English version: Press release (Oct. 2021) / French version: Communiqué de presse (oct. 2021) / German version: Pressemitteilung (Okt. 2021) Journal Papers: • "Overview of solar thermal technology development and applications in West Africa: focus on hot water and its applications" – N'TSOUKPOE, K. E., LEKOMBO, S. C., KEMAUSUOR, F., KO, G. K., & El Hadji Bamba, D. I. A. W. (2023), <i>Scientific African</i>, e01752 – DOI: https://doi.org/10.1016/j.sciaf.2023.e01752 • In situ performance evaluation of a solar water heating system for a hospital laundry in the Sahel" – Lekombo, C. S., N'Tsoukpoe, K. E., Bahamonde, C. F., Dudita, M., Ko, G. K., Agbokou, K. S. (2024), <i>Energy for Sustainable Development</i> – DOI https://doi.org/10.1016/j.esd.2024.101499 Conference Papers: • "Potential applications of CO2 systems in developing countries with high ambient temperature" – GL2022 Conference Paper – DOI: 10.18462/iir.gl.2022.0019 • "Self-sufficient Propane-CO2 cascade with two-phase thermosiphon – Simulation of an evaporating two-phase flow with variable heat transfer coefficient" – GL2022 Conference Paper – DOI: 10.18462/iir.gl.2022.0036 • "Modelling and simulation of heat sink cascade CO2 systems in low-income countries with high ambient temperature", COLOMBO I., KAUFFELD M., SCHMID O., ALLOUCHE Y., KIGGUNDU N., PAURINE A., MAIDMENT G., N'TSOUKPOE K. E., ICR 2023, DOI 10.18462/iir.icr.2023.0661 • "SophiA: Sustainable off-grid solutions for Pharmacies and Hospitals in Africa – Self-sufficient cascade system in combination with a thermal energy storage charged by a two-phase thermosiphon", SCHMID O., MELITO E., KAUFFELD M., ICR 2023, DOI 10.18462/iir.icr.2023.00447 • "SophiA: Sustainable Off-Grid Technologies for Drinking and Deionised Water for Hospitals in Africa"- Sneha De, Duc N. Dinh, Jan Hoinkis. Technoscape 2023 " Link to the paper " SOFACTs: • SOFACT 1 – Potential applications of CO2 systems in developing countries with high ambient temperature • SOFACT 2 – Overview of solar thermal technology development and applications in West Africa: Focus on hot water and its applications • SOFACT 3 – Modelling and simulation of heat sink cascade CO2 systems in low-income countries with high ambient temperature • SOFACT 4 – Self-sufficient cascade system in combination with a thermal energy storage charged by a two-phase thermosiphon • SOFACT 5 – Sustainable Off-Grid Technologies for Drinking and Deionised Water for Hospitals in Africa				

Figure 5: Downloads' webpage

The YouTube links to the introduction video of the SophiA project were added to the "Videos" category both in English and in French. A version in Jula and a version in Mooré are also available on YouTube but are not yet accessible via the website. Documents are regularly added, in the three language versions of the website.

Articles	Brochures	Videos	Newsletter	SophiA Reports
"Projects on Clean and efficient refrigeration solutions for food and healthcare in developing countries" – SophiA presentation as part of the IIR workshop at the 7th IIR Conference on Sustainability and the Cold Chain (ICCC 2022) – Watch the video on YouTube Introduction to the SophiA project – Watch the video on YouTube (English version) – Watch the video on YouTube (French version)				

Figure 6: SophiA Video/Downloads webpage

Since the creation of the SophiA website, there have been **71,354 downloads**, including newsletters, SOFACT, brochures, posters, press releases, and flyers.



D8.4: Communication, dissemination, and capacity building strategy plan

Table 3: Numbers of Downloads

DOCUMENTS DOWNLOADED	NUMBER	DOCUMENTS DOWNLOADED	NUMBER
Flyer (verso)2.png	162	Program20230628.pdf	-
Flyer (recto)1.png	157	SophiA Newsletter 2 (DE)Newsletter-2-SophiA-Maquette-ALL.pdf	1 860
SOFAC 5SOFAC-5.pdf	553	SophiA Newsletter 2 (FR)Newsletter-2-SophiA-Maquette-FR.pdf	1 851
SophiA Newsletter 4 (DE)Newsletter-4-SophiA-Maquette-ALL.pdf	585	SophiA Newsletter 2 (EN)Newsletter-2-SophiA-Maquette-EN.pdf	2 965
SophiA Newsletter 4 (EN)Newsletter-4-SophiA-Maquette-EN-1.pdf -	749	SophiA Poster (DE)Sophia-Poster-DE-final.pdf	1 084
SophiA Newsletter 4 (FR)Newsletter-4-SophiA-Maquette-FR-1.pdf -	605	SophiA Brochure (DE)Sophia-Brochure-DE-WEB-3-final.pdf	1 841
Link to the paperAbstract_SophiA.pdf - 448.34 KB	719	SophiA Poster (FR)Sophia-Poster-FR-print-1.pdf	1 314
SOFAC 4SOFAC-4.pdf	2 475	SophiA Brochure (EN)Sophia-Brochure-UK-WEB-v3.pdf	3 406
SOFAC 3SOFAC-3.pdf	2 376	SophiA Brochure (FR)Sophia-Brochure-FR-WEB-v3.pdf	2 269
D9.3 - DATA MANAGEMENT PLAND9.3_Data_Management_Plan_HKA_Final.pdf	2 620	SophiA Newsletter 1 (EN)SophiA-Newsletter-01-en.pdf	3 453
D8.2 - DISSEMINATION, COMMUNICATION AND CAPACITY BUILDING STRATEGY PLAN REVIEWD8.2-	2 441	SophiA Newsletter 1 (FR)SophiA-Newsletter-01-fr.pdf	2 110
D8.1 - DISSEMINATION, COMMUNICATION AND CAPACITY BUILDING STRATEGYD8.1	2 607	SophiA Poster (EN)Sophia-Poster-UK-web.pdf	2 398
D1.1 - NEEDS ASSESSMENT IN MEDICAL CARE CENTRES IN AFRICAD1.1_Needs-assessment-in-	3 003	SophiA Poster (old version)SophiA-Poster-A0-v06.pdf	34
medical-care-centres-in-Africa.pdf	1 712	SophiA BrochureSophia-Brochure-v08.pdf	141
SophiA Newsletter 3 (DE)Newsletter-3-SophiA-Maquette-ALL.pdf	1 956	Pressemitteilung (Nov. 2021)SophiA-press-release-202111-de.pdf	2 144
SophiA Newsletter 3 (FR)Newsletter-3-SophiA-Maquette-FR.pdf	2 756	Communiqué de presse (nov. 2021)SophiA-press-release-202111-fr.pdf	2 369
SophiA Newsletter 3 (EN)Newsletter-3-SophiA-Maquette-EN.pdf	2 572	Press release (Nov. 2021)SophiA-press-release-202111-en.pdf	3 375
SOFAC 2SOFAC-2.pdf	2 669	Communiqué de presse (oct. 2021)SophiA-press-release-202110-fr.pdf	2 398
SOFAC 1SOFAC-1-1.pdf	-	Pressemitteilung (Okt. 2021)SophiA-press-release-202110-de.pdf	2 198
ProgramProgram20230628-2.pdf	-	Press release (Oct. 2021)SophiA-press-release-202110-en.pdf	3 427
ProgramProgram20230628-1.pdf	-	Sustainability Summer School Flyer - July 2022sustainability-summer-school-flyer-2022.pdf	-
TOTAL		71354	

A new project has been added to the "Related Projects" webpage of SophiA, with a link directing to their official website. Praectice is a Green Deal project that aims to assist small-scale farmers in their agro-ecological transition by exploring the potential of agro-ecological practices in East Africa. It seeks to provide a new set of agro-ecological indicators with a focus on the circular water-energy-nutrient systems of integrated aquaculture. The initiative emphasizes meeting the needs of small-scale farmers.



Praectice

- Helping small-scale farmers in their agro-ecological transition by exploring the potential of agro-ecological practices in East Africa.
- To provide a new set of agro-ecological indicators focusing on the circular water-energy-nutrient systems of integrated aquaculture
- Focus on the needs of small-scale farmers.

<https://praectice.eu/>



Figure 9: SophiA Green Deal projects page

Social media

X, LinkedIn, Facebook, and YouTube channels were set up at the beginning of the project. A table showing the current followers/ subscribers following this paragraph shows the progression.

Table 4: Social media subscribers

Social Media	M12	M24 (% = growth rate)	M36 (% = growth rate)
X/Twitter	117	179 + 52.99 %	192 + 7.26 %
LinkedIn	226	495 + 119.03 %	591 + 19.39 %
Facebook	9	19 +111.1 %	42 + 121.05 %
Youtube	10	25 +150 %	34 + 36 %

As demonstrated in the table, the social media that works best for the promotion of the project might be LinkedIn, thanks to the regularity of posts. On X and on Facebook, the number of followers slightly increased but not as much as expected.

Concerning the YouTube account, a lot of videos were posted lately this will definitely increase the number of subscribers, even if it is still too soon to appreciate the numbers.

Partners are encouraged to share the SophiA social media publications on their own platforms. They are also invited to contribute to the SophiA social media with their own posts using the SophiA Social Media Guideline previously developed.

Project videos

Project videos dedicated to the project activities has been produced and published throughout the duration of the project, and will continue to be. The videos aim to introduce the project background and scope to the different stakeholders and present the project progress. They also constitute a key tool enabling virtual visits to the SophiA facilities and demo sites.



The original introductory video was posted approximately a year ago on various platforms. It presents the SophiA project, explains its goals and shows the pilots countries and the partners. As the target audience is the general public, the video uses a popularization methodology. Furthermore, the storytelling uses elements of African culture, such as visual and musical elements of African art. The voiceover is in English, and French, English and Swahili subtitles are available. The video was posted on YouTube, and then reposted on every social media, and on the website. It was also promoted through e-SophiA news. This video and its promotion has helped the YouTube channel to gain a great visibility.

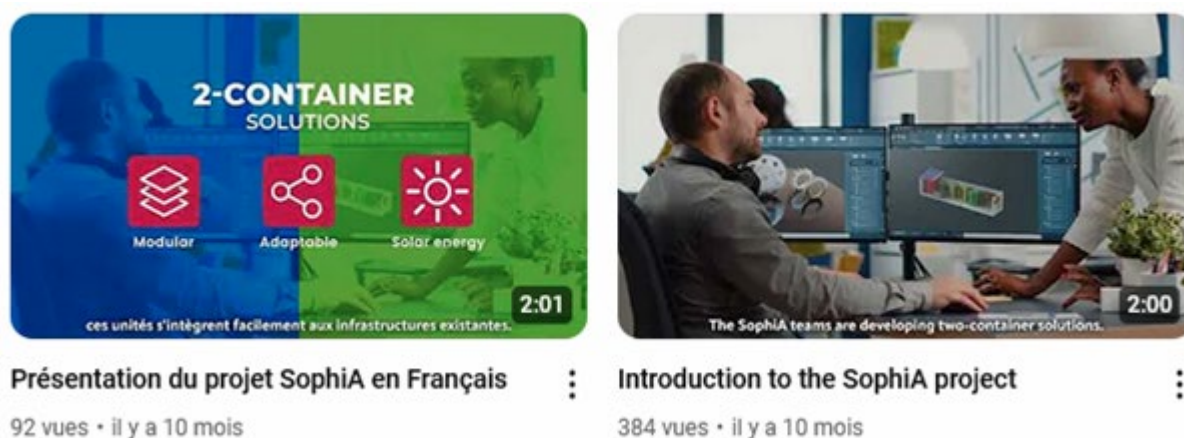


Figure 7: SophiA introductory video on Youtube

A short video was uploaded to the channel to celebrate the new year.



Figure 8: SophiA Happy New Year 2024 video on YouTube

Also two short videos were added to the Youtube channel to promote the SophiA project in march 2024.



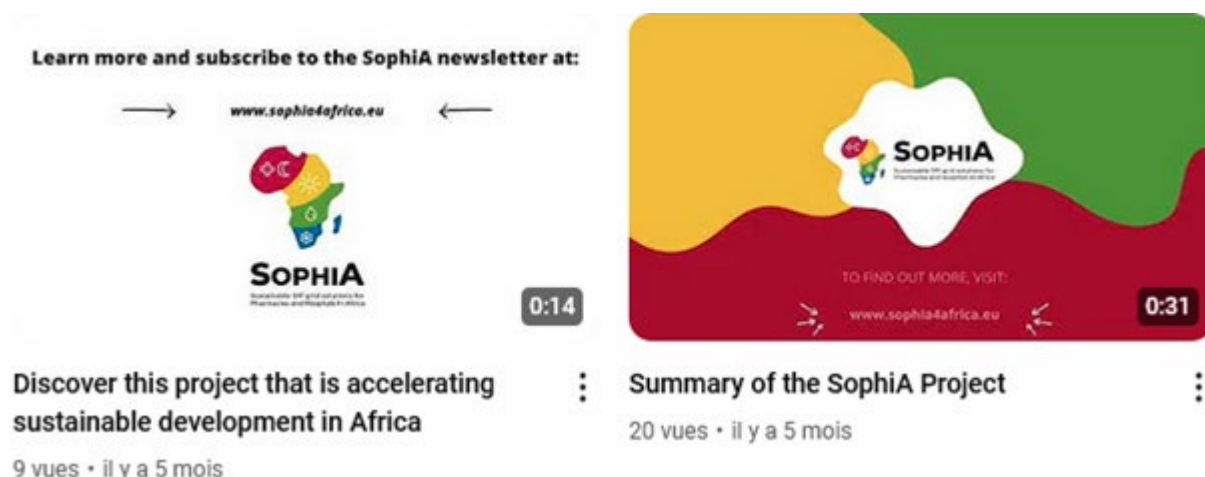


Figure 9: Additional short videos

In April 2024 the introductory video was posted with a voiceover in Jula and English subtitles. Following this initiative, in May, the same video was posted with a Mooré voiceover and English subtitles. This initiative aims to make the video more accessible for the local population.

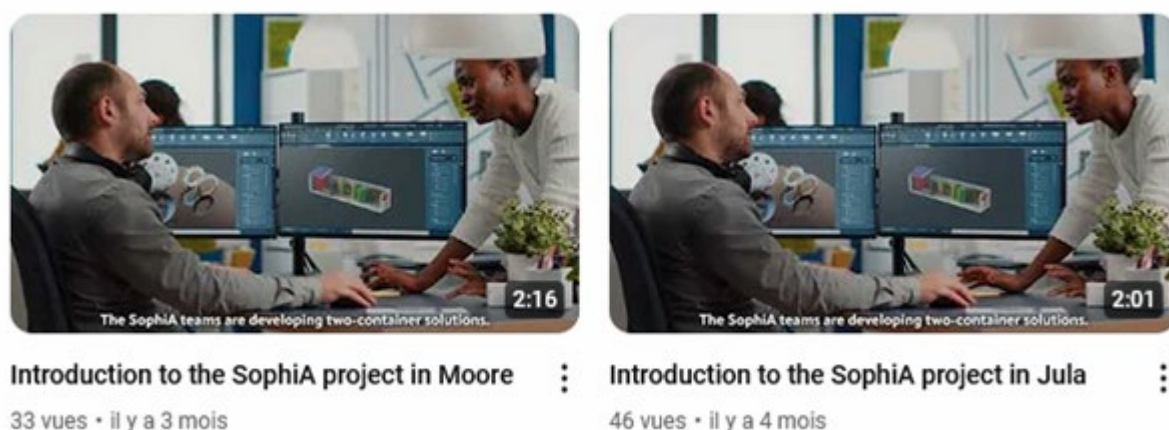


Figure 10: Sophia introductory in Jula voiceover

Four videos were posted since then to promote the arrival and development of the Sophia technologies in the Burkina Faso demonstration site, with onsite pictures and videos.

A descriptive video on the Scheffler Reflectors, made by the Sophia partner Simply Solar, has been posted in June 2024. It explains the use of the Reflectors and its mechanism, which focus sunlight onto an Aluminium steam generator. The system powers a central kitchen preparing 40 meals daily for hospital staff, doctors, and patients. Powered by the PVsteamCube, which stores solar electricity as heat (up to 400°C), steam is delivered to the kitchen and laundry. The video also invites viewers to the inauguration ceremony at Léo Hospital on June 27, 2024. This video made 208 views.





**Nouvelle technologie SophiA : Solar Steam
from Scheffler Reflectors**

209 vues • il y a 2 mois

Figure 11: Videos on the Scheffler reflectors' technologies

Another video focusing on the arrival of the SophiA containers in Burkina Faso has been posted at the beginning of July. It highlights the culmination of over two years of dedication and innovation with the installation of the first SophiA systems at the Léo Hospital, after a long journey of development, testing, and navigating challenges. Thanks to the expertise and commitment of the project partners, the system was up and running within just two weeks. The video also showcases the installation of the two Scheffler reflectors, which were set up in record time, allowing the central kitchen to begin preparing meals for the hospital's staff, doctors, and patients. The video also invites viewers to witness the grand inauguration ceremony of the SophiA project containers at Léo Hospital on June 27, 2024. This video made only 54 views because we had to delete it and reupload it with modifications after some partners comments, but it was promoted on the SophiA social media afterwards to make sure the project followers had access to it at least once.



**Les conteneurs SophiA arrivent à l'hôpital
Leo**

54 vues • il y a 1 mois

Figure 12: Videos on the arrival of SophiA in Burkina-Faso

Another video has been uploaded to introduce the PVmedPort, an innovative solar-powered solution developed under the SophiA project, designed to provide essential energy to off-grid



rural areas. Powered by photovoltaic modules, PVmedPort offers reliable energy to small health facilities, supports outreach programs for education, vaccination, and awareness, and can even function as a fully equipped, self-sufficient station such as a dispensary or pharmacy. One of its impactful features was showcased in this video which is the newly installed lighting in the maternity room, allowing caregivers to perform consultations and deliveries more efficiently, even at night. As the two other video, this one was a mean to invite viewers to join the grand inauguration ceremony at Léo Hospital.



Nouvelle technologie SophiA : PVmedPort

81 vues • il y a 1 mois

Figure 13: Video on the SophiA PVmedPort technology

At the moment 12 videos are available to watch on the SophiA4Africa Youtube channel promoting the project. It is planned to develop further for the other demonstration sites.

3.1.2 Communication Support Materials

The communication supports are tools to be used as promotional materials to communicate important key messages and information packages of the project. In all communication supports, both the SophiA logo and graphic charter are applied.

Templates

The Microsoft Word template for public and confidential reports, as well as the PowerPoint template are regularly used by the partners.

Flyer

A flyer has been developed in French to be distributed to the local population in the Léo hospital region to promote the launch day.





Figure 14: SophiA flyer in French

Newsletter

The newsletters are produced every six months to maintain a permanent and regular information about the project progress and achieved milestones. The four first newsletters were posted on the website and relayed on the social medias. Website users have the possibility to sign up to the newsletter.

Articles	Brochures	Videos	Newsletter
SophiA Newsletter 1 (EN) – No. 1, English version, Oct. 2022 SophiA Newsletter 1 (FR) – No. 1, French version, Oct. 2022 SophiA Newsletter 2 (EN) – No. 2, English version, April. 2023 SophiA Newsletter 2 (FR) – No. 2, French version, April. 2023 SophiA Newsletter 2 (DE) – No. 2, Deutsch version, April. 2023 SophiA Newsletter 3 (EN) – No. 3, English version, Oct. 2023 SophiA Newsletter 3 (FR) – No. 3, French version, Oct. 2023 SophiA Newsletter 3 (DE) – No. 3, Deutsch version, Okt. 2023 SophiA Newsletter 4 (EN) – No. 4, English version, March. 2024 SophiA Newsletter 4 (FR) – No. 4, French version, March. 2024 SophiA Newsletter 4 (DE) – No. 4, Deutsch version, March. 2024			

Figure 15: List the Newsletters in different languages



D8.4: Communication, dissemination, and capacity building strategy plan

Here is an overview of the last Newsletter released.

SOPHIA
Sustainable Off-grid solutions for Pharmacies and Hospitals in Africa

NEWSLETTER N°4 / March 2024

Aims to improve quality of life of populations through better treatment & working conditions in rural and remote health facilities in Africa

By providing:

- Safe, clean drinking water and deionized water for medical purposes
- Hot water and steam production for hospital thermal requirements
- Emergency electricity supply for surgical and intensive care units
- Ultra-low temperature storage of sensitive medication at -70°C
- Low temperature storage of blood plasma at -30°C
- Cooling of medicines and food at +5°C

SophiA M30 Partner's meeting

The last week of February was intense for the SophiA project!

From 26 to 28 February, two train-the-trainer sessions were held simultaneously at two of the project's partners premises: HKA in Germany and OST in Switzerland. Involved in both theoretical and hands-on activities, about 15 participants from Burkina Faso, Cameroon, Germany and Uganda considered this training session an enriching experience, from which they got a lot of useful information that they can use in further training activities.

The training sessions on cooling with natural refrigerants like carbon dioxide and propane and on water treatment were given by HKA University in Karlsruhe, Germany. A Danfoss representative drew particular attention to safety when using hydrocarbons and CO₂ as refrigerants. The consortium also provided more training regarding safety at the TWK training centre in Karlsruhe. For further information, you can check [Michael Kauffeld's LinkedIn](#), who organised the Train the Trainers.

Together with SophiA partners [Zile](#), [Raach Solar](#) and [Simply Solar](#), [SPF](#) has prepared three inspiring days for the future SophiA trainers on solar technologies. Professors from the [OST](#) - Eastern Switzerland University of Applied Sciences, study program in [Renewable Energies and Environmental Engineering](#) were also involved in this unique initiative aiming to empower future trainers for SophiA and solar technologies in Africa. The training took place in Rapperswil, Jona, in Switzerland, at the Eastern Switzerland University of Applied Sciences (OST). More information on [SPF LinkedIn](#), who organised the event.

Then, all SophiA partners gathered for two intense days, 29 February and 01 March 2024, in Karlsruhe for SophiA Consortium. Twenty-six partners attended live and ten online.

The meeting was opened by the HKA University's new Rector, Prof. Dr. Rose Marie Beck; the Mayor of Karlsruhe, Dr. Frank Mentrup; and the Vice Rector for Research, Prof. Dr. Franz Quint.

Inspiring discussions on the project's progress and creative working groups for planning the remaining work brought the participants closer to the project vision: sustainable cooling and heating solutions as well as virus and bacteria free water for hospitals in Africa. An important milestone was achieved: the first water and refrigeration containers for Burkina Faso were successfully built in South Africa by Everflo and are currently heading towards Burkina Faso. They are expected to arrive end of March in Ouagadougou. Léo Surgical Clinic from Burkina Faso is getting ready for their arrival and the ground preparations for the site where the containers will be installed are almost done.

Different working groups were created during the consortium meeting. SophiA technical partners discussed intensively about the new design for the other three demo sites in Cameroon, Malawi and Uganda. Tailored to the needs of the hospitals, less expensive, simpler to manufacture and easier to use are the watchwords for the new SophiA systems.

SPF and Makerere University, responsible for the environmental impact assessment, have shown the LCA results which indicate that the SophiA's solar-powered systems lower the environmental impact by around 30 to 60 % and 65 % to 85 % compared to the use of 100 % diesel off-grid and on-grid, respectively.

The first consortium day ended with a dinner in a typical German restaurant close to the University. The partners shared a warm networking moment over German beers and Spätzle with the new HKA Rector and the new HKA professor for heat pumps!

The main topics discussed on the second day were the inauguration days of the containers in Burkina Faso and their post-project maintenance. Administrative and financial issues were also discussed.

Finally, the forthcoming collaboration between the SophiA and PRAECTICE projects was emphasised. Bringing together sixteen partners and starting in November 2022, PRAECTICE focuses on agroecological practices. Its aim is to help small farmers in their agroecological transition by exploring the potential of these practices in East Africa. PRAECTICE aims to provide a new set of agroecological indicators focusing on circular water-energy-nutrient systems of integrated aquaculture, while making small farmers' needs the major concern. For further information on PRAECTICE, visit the project's [website](#) and [LinkedIn](#).

Over the past six months, SophiA has taken part in many events, including six major ones in six different countries. Check out the News and Events section of the [SophiA website](#) for more information. The project is also very active on social media, especially on [LinkedIn](#) and on [YouTube](#), through the [SophiA Youtube](#).

Figure 16: The fourth SophiA newsletter (available online)

The next Newsletter is supposed to be released at the end of September 2024 and will deal about the Life Cycle Assessment of the SophiA system.

e-Newsletters

The first 9 e-SophiA News were published since the first one in July 2022. They are disseminated to the Newsletter subscribers via Mailchimp then in open access from the website 2 weeks after publication.

The last e-news in date was published in July of this year, right after the inauguration day of the SophiA containers on June 27 at the Dr. Sedogo Medical and Surgical Clinic. This event was organised by the 2iE Institute in the presence of numerous local dignitaries and community members that's why it was important to showcase it in the e-SophiA newsletter. The e-news also redirected the viewers towards the news article that was uploaded on the SophiA website.



D8.4: Communication, dissemination, and capacity building strategy plan

e-SophiA News

- [1st e-SophiA News](#) – Jul. 2022
- [2nd e-SophiA News](#) – Oct. 2022
- [3rd e-SophiA News](#) – Jan. 2023
- [4th e-SophiA News](#) – Mar. 2023
- [5th e-SophiA News](#) – Jun. 2023
- [6th e-SophiA News](#) – Oct. 2023
- [7th e-SophiA News](#) – Jan. 2024
- [8th e-SophiA News](#) – May. 2024
- [9th e-SophiA News](#) – Jul. 2024

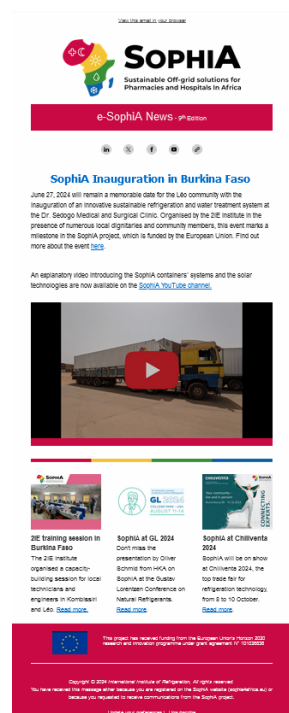
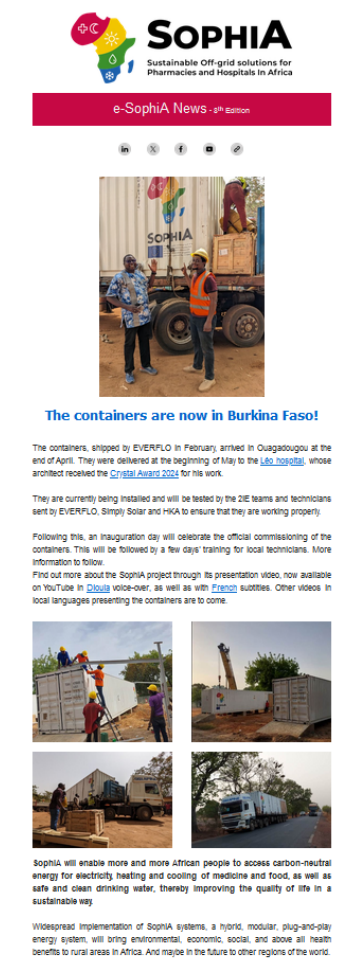


Figure 17: 9th e-SophiA new on the website.

Figure 18: List of e-SophiA News and latest e-SophiA News

The e-news also redirects towards the explanatory video introducing the SophiA containers' systems and the solar technologies on the SophiA YouTube channel.

SOFACTs

The SOFACTs, are released to summarise the scientific papers about SophiA that have been published so far in a visual and innovative way and to contribute to the communication and dissemination of the SophiA results.

Currently, five SOFACTs are downloadable on the website in the “Downloads” category, tab “articles”, under the conference papers. The SOFACTs are also published on Social Media.



D8.4: Communication, dissemination, and capacity building strategy plan

Press Releases:

- Press Release – November 2nd, 2021 – Participants of the international EU research project SophiA support family of the deceased African pioneer. – English version: [Press release \(Nov. 2021\)](#) / French version: [Communiqué de presse \(nov. 2021\)](#) / German version: [Pressemittellung \(Nov. 2021\)](#)
- Press Release – October 20, 2021 – New EU funded project began on October 1st, 2021: "SophiA – Sustainable off-grid solutions for pharmacies and hospitals in Africa". – English version: [Press release \(Oct. 2021\)](#) / French version: [Communiqué de presse \(oct. 2021\)](#) / German version: [Pressemittellung \(Okt. 2021\)](#)

Journal Papers:

- "Overview of solar thermal technology development and applications in West Africa: focus on hot water and its applications" – N'TSOUKPOE, K. E., LEKOMBO, S. C., KEMAUSUOR, F., KO, G. K., & El Hadji Bamba, D. I. A. W. (2023), *Scientific African*, e01752 – DOI: <https://doi.org/10.1016/j.sciaf.2023.e01752>

Conference Papers:

- "Potential applications of CO2 systems in developing countries with high ambient temperature" – GL2022 Conference Paper – DOI: [10.18462/iir.gl2022.0019](https://doi.org/10.18462/iir.gl2022.0019)
- "Self-sufficient Propane-CO2 cascade with two-phase thermosiphon – Simulation of an evaporating two-phase flow with variable heat transfer coefficient" – GL2022 Conference Paper – DOI: [10.18462/iir.gl2022.0036](https://doi.org/10.18462/iir.gl2022.0036)
- "Modelling and simulation of heat sink cascade CO2 systems in low-income countries with high ambient temperature", COLOMBO I., KAUFFELD M., SCHMID O., ALLOUCHE Y., KIGGUNDU N., PAURINE A., MAIDMENT G., N'TSOUKPOE K. E., ICR 2023, DOI [10.18462/iir.icr.2023.0661](https://doi.org/10.18462/iir.icr.2023.0661)
- "SophiA: Sustainable off-grid solutions for Pharmacies and Hospitals in Africa – Self-sufficient cascade system in combination with a thermal energy storage charged by a two-phase thermosiphon", SCHMID O., MELITO E., KAUFFELD M., ICR 2023, DOI [10.18462/iir.icr.2023.00447](https://doi.org/10.18462/iir.icr.2023.00447)
- "SophiA: Sustainable Off-Grid Technologies for Drinking and Deionised Water for Hospitals in Africa"- Sneha De, Duc N. Dinh, Jan Hoinkis. Technoscape 2023 " [Link to the paper](#)"

SOFACTs:

- [SOFACT 1](#) – Potential applications of CO2 systems in developing countries with high ambient temperature
- [SOFACT 2](#) – Overview of solar thermal technology development and applications in West Africa: Focus on hot water and its applications
- [SOFACT 3](#) – Modelling and simulation of heat sink cascade CO2 systems in low-income countries with high ambient temperature
- [SOFACT 4](#) – Self-sufficient cascade system in combination with a thermal energy storage charged by a two-phase thermosiphon
- [SOFACT 5](#) – Sustainable Off-Grid Technologies for Drinking and Deionised Water for Hospitals in Africa

Figure 19: "Article" tab, "Downloads" category with the latest e-SophiA News

Here is the last SOFACT released in date.

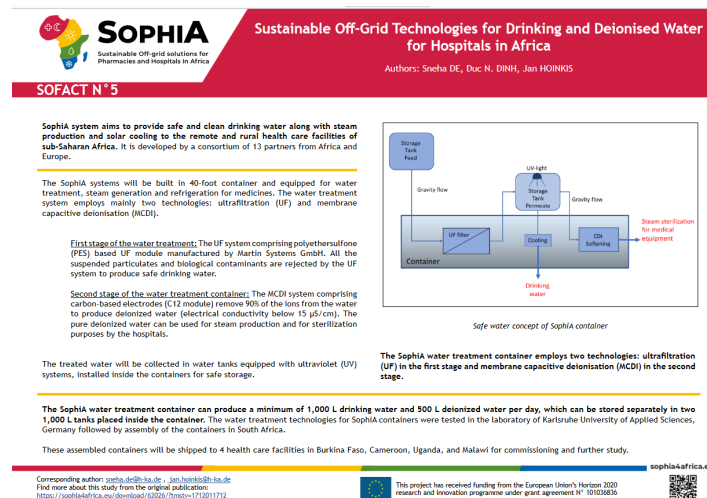


Figure 20: SOFACT n.° 5.

Promotional items

Following the development of the SophiA thermal bottle by Everflo, a SophiA Cup has been designed and provided to all the partners at the M24 meeting. A hashtag was created: #sophiacup associated with the #sophiabottle. This hashtag helps and encourages partners and stakeholders to post about the SophiA promotional items when travelling around the world to meet up, attracting visibility on the project. See an example of its utilisation following this paragraph.





Figure 21: SophiA Cup X post

3.1.3 Communication timeline and KPIs

Figure 22 illustrates the suggested communication timeline initially stated in the GA.





Figure 22: Suggested timeline for the communication materials.

Most of the targets stated in the GA (Page 39) for the communication have been reached, except of the SophiA website therefore we counted the visit as well as pages about SophiA from IIR, SEZ, and OST websites. However, this number is likely underestimated due to missing data from other partners, suggesting that the total could be closer to the original target of 30,000 website page visits. Nevertheless, with the benefit of hindsight at this stage of the project, the consortium acknowledges that it had overestimated the expected number of visits.



Table 5: Communication KPIs to date from the SophiA Monitoring tool

	Indicator name	Target (KPI)	Number reached	Details	Total
Communication KPI	SophiA Website and partner websites	30 000 website page visit	3236	Sessions	10647
			1570	Unique visitors	
		IIR website	866	Views in english	
			278	Views in french	
		SEZ website	481	Visits	
		OST website	886	Unique visitors	
			1194	Sessions	
			2136	Views	
	SophiA visual identity and branding	30 000 views of communication supports	71 354	Downloads from SophiA website	
	SophiA visual identity and branding	2 Posters	2	1 technical poster 1 general poster	
		1 Rolled up banner	1	1 digital version and printed	
		7 Newsletters	4	In English, French and German versions	
		14 E-newsletters	7	In English only,	
		>1500 copies of Brochure/Flyers distributed	3000	SophiA brochure developed in French and English printed and distributed to all partners at the M18 meeting	
		3 types of Brochure/Flyers	2	1 brochure, 1 flyer for the Burkina lanuch day	
	Newsletter	14 E-newsletters	7	In English only with 114 subscribers	
	Social medias	300 followers	195	Followers	734
		300 followers	495		
		300 followers	19	Subscribers	
		80 subscribers	25		
		500 Posts in all social media	263	Posts on Twitter	431
			8	Youtube videos	
			111	Linkedin posts or reposts	
			49	Facebook posts (ShopiA's wall)	
	Project videos	1 project videos 5 tutorial videos 3 testimonial videos	8	3x Introduction video in English, French and Julia 1x Video of the Burkina Faso Hospital building Video of the Oliver Schmid HSKarlsruhe SophiA EurafricaInstitute 1x Video of the ICC2022 workshop for SophiA 2x Short videos promoting the project	

3.2 The Dissemination Strategy Plan

The dissemination strategy aims to publish all project public results and outcomes. It provides specific messages to specific target groups with a particular background. These groups consist mainly of academia, developers, operators and industrial communities, who shall make beneficial use of the disseminated results and data to further develop their own studies or



develop a final product and make it available for the end users and general public. The dissemination activities can be performed through the participation to scientific events (conferences, seminars, workshops, etc.) or through publication in peer-reviewed journals, technical magazines and press releases. The dissemination constitutes a bridge to the project findings to be further explored.

3.2.1 Dissemination monitoring tool

To allow an effective planning, execution, and continuous reporting of dissemination activities, a dissemination monitoring tool in the shape of an Excel Spreadsheet has been developed by the WP8 leader (IIR). Partners are asked by the WP8 leader (IIR) to regularly report. The document has been uploaded to MS Teams to guarantee a simultaneous update of the file from all partners. The main objective of this tool is to keep track of all dissemination activities of the project.

The monitoring tool (MT) has been recently updated by the IIR to make it easier to use as it has been found the partners encounter difficulties to keep track of their activities

Read me first sheet

First, the “Read me first” sheet has been updated to give clearer instructions on how to use the MT.

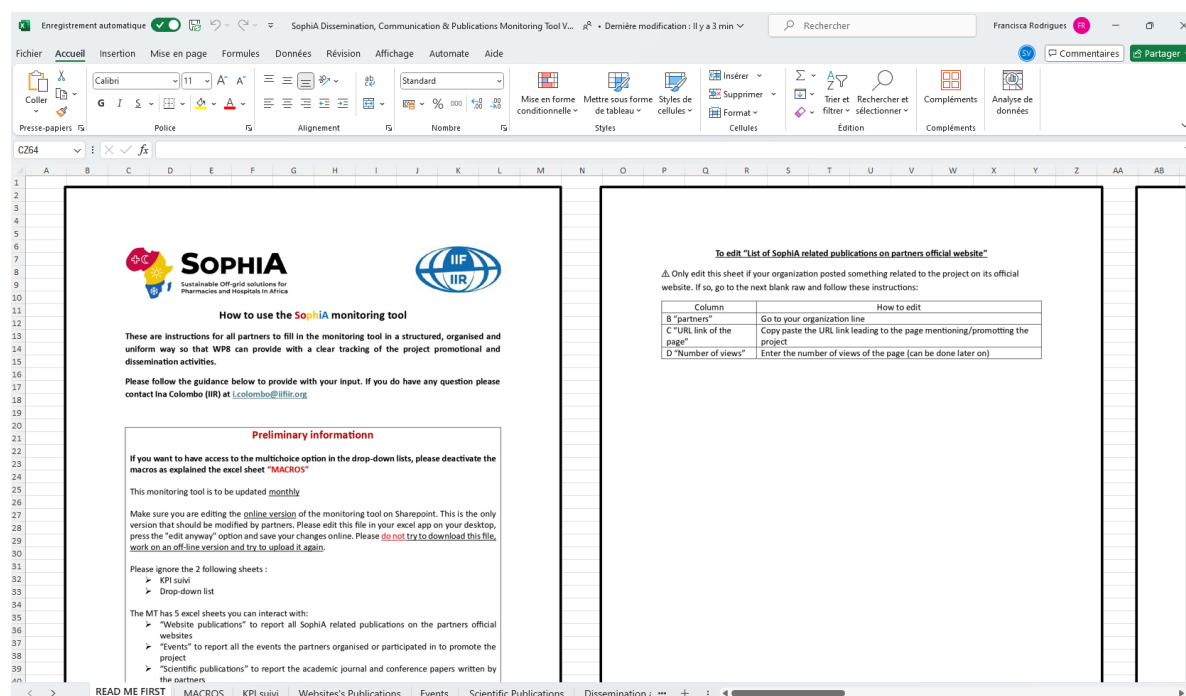


Figure 23: Read me first worksheet of the MT

Macro sheet

A “MACRO” sheet has also been added to the MT. In the newest version of the MT, multichoice options were added in the drop-down lists, so that the partners can select multiple type of



D8.4: Communication, dissemination, and capacity building strategy plan

dissemination activities at once for an event for instance, or to add multiple participating partners at once. The thing is that this option requires macros to work correctly, and settings must be updated in the excel documents to use it. The IIR made a user instruction notice.

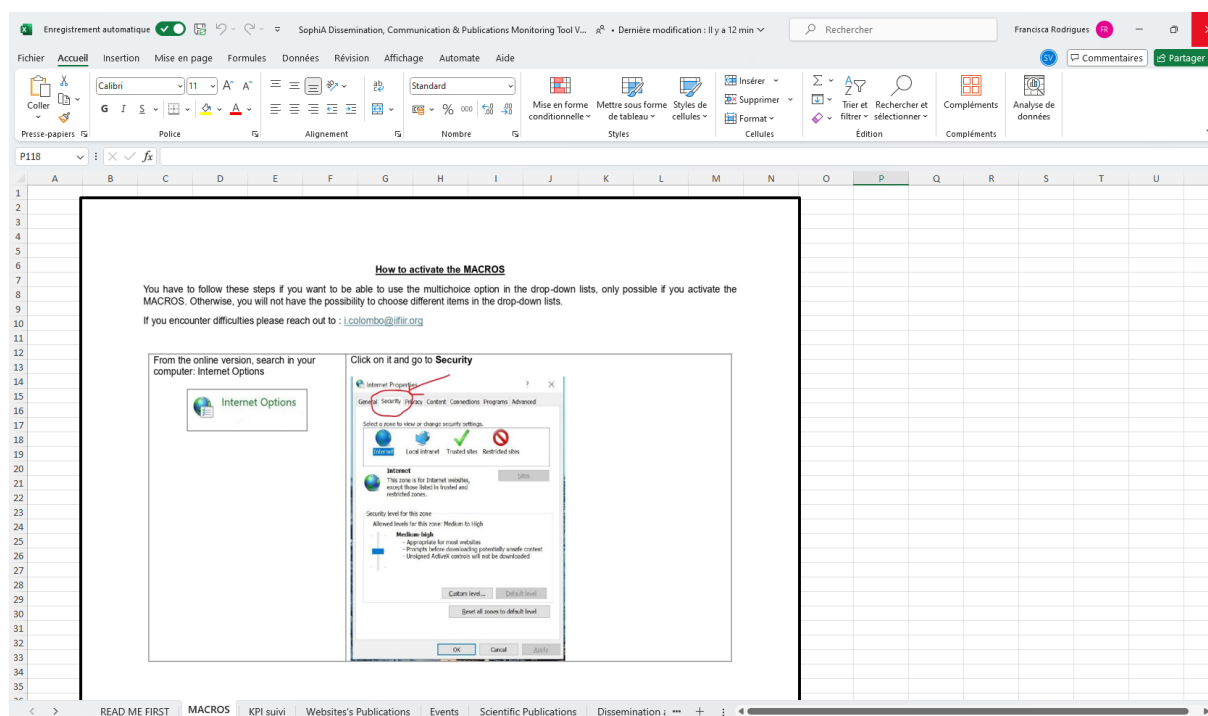


Figure 24: Macros worksheet of the MT

KPI sheet

The IIR also added a “KPI” sheet to keep track of the target numbers the consortium agreed on at the beginning of the project and compare it to the actual advancement of the communication, dissemination and capacity building activities. The partners shouldn’t interact with this sheet but the IIR.



D8.4: Communication, dissemination, and capacity building strategy plan

Indicator name	Objective	Target	Number reached	Details	Total
Website	Main entry to the project, repository of news and public content. It will be dynamic and acts as a hub for a variety of information including documents (reports, manuals, Flyers, brochures, project leaflets, newsletter), videos and audio from relevant stakeholders about upcoming events, demand and activities.	30 000 website page visit	1570	Unique visitors	10647
		IR	666	Views in english	
		OST	278	Views in french	
			401	Visits	
			806	Unique visitors	
			1194	Sessions	
			2135	Views	
Posters	Making information easy-to-understand.	1 technical poster 1 general poster	2	Posters	
Newsletter	Semestrial SophiA news: offers a regular communication channel to inform stakeholders, collaborators, and the wider community about project developments, achievements, and upcoming events	7	4		
E-newsletter	Promoting the project and its progress Trimestrial e-SophiA news Media (radio, TV, matching campaign)	14	7		
Social media channels	Complementary tool to the EIA website to reach a wider audience:	Expected number of followers:	Actual number of followers:		
	Twitter	300 followers	179		
	LinkedIn	300 followers	695	Followers	718
	Facebook	300 followers	19		
	Youtube	60 subscribers	26	Subscribers	
			263	Posts on Twitter	
			8	Youtube videos	431
			111	LinkedIn posts or reposts	
			49	Facebook posts (SophiA's wall)	
Posts in all social media	Including partners social medias	500			
Brochure	Creating awareness and familiarity with the project topic, objectives and results.	1 SophiA brochure in French, English and German.	1		
Roll-up banner	To give partners and they shall print it themselves.	1 digital version			
Flyers	Distribution/display of communication support materials.	1500 copies of flyers distributed	3000		
Articles	Views of communication supports (online excluding website and offline)	30 000 views of communication supports News/articles in partner organisation newsletters	31 932 17	Downloads from SophiA website News/articles in partner organisation newsletters	

Figure 25: KPI worksheet of the MT

Website publications sheet

Then, the MT has now 5 excel sheets the partners can interact with:

A “Website publications” sheet to report all SophiA related publications on the partners official websites. The partners have to put the url links and the number of views of these pages near the end of the project so that the IIR can add those informations in the communication KPI section.

No	Partners	URL link of the page	Number of views
1	SophiA Website	https://sophiaafrica.eu/	Demandeur & Gérant
2	IIR	https://www.h-ka.de/suche/?c=0&id=72&tx_solr%5B%3D%3D-SophiA	
3	SPF-OST	https://www.ost.ch/de/systemseiten/suche?url&id=21&tx_solr%5B%3D%3D-SophiA	
4	MAK	https://news.mak.ac.uk/?s=sophia	Statistics in KPI sheet
5	DIE	https://www.die-edu.org/en-nouveau-projet-finance-par-lue-a-debut-le-1er-octobre-2021-sophia-solutions-hors-reseau-durables-pour-les-pharmacies-et-les-hopitales-en-afrique	
6	SEZ	https://www.fz-juelich.de/foe/en/News/2021/09/2021-Steinbeis-Europa-Zentrum-cooperate-in-two-major-research-projects-with-a-focus-on-Africa-Steinbeis-Europa-Zentrum	38 page visits
7	IR	https://www.fz-juelich.de/foe/en/News/2021/09/2021-Steinbeis-Europa-Zentrum-cooperate-in-two-major-research-projects-with-a-focus-on-Africa-Steinbeis-Europa-Zentrum	44 page visits
8	MPHC	https://www.fz-juelich.de/foe/en/News/2021/09/2021-Steinbeis-Europa-Zentrum-cooperate-in-two-major-research-projects-with-a-focus-on-Africa-Steinbeis-Europa-Zentrum	62 page visits
9		https://www.fz-juelich.de/foe/en/News/2021/09/2021-Steinbeis-Europa-Zentrum-cooperate-in-two-major-research-projects-with-a-focus-on-Africa-Steinbeis-Europa-Zentrum	148 page visits
10		https://www.fz-juelich.de/foe/en/News/2021/09/2021-Steinbeis-Europa-Zentrum-cooperate-in-two-major-research-projects-with-a-focus-on-Africa-Steinbeis-Europa-Zentrum	75 page visits
11		https://www.fz-juelich.de/foe/en/News/2021/09/2021-Steinbeis-Europa-Zentrum-cooperate-in-two-major-research-projects-with-a-focus-on-Africa-Steinbeis-Europa-Zentrum	118 page visits
12		https://www.fz-juelich.de/foe/en/News/2021/09/2021-Steinbeis-Europa-Zentrum-cooperate-in-two-major-research-projects-with-a-focus-on-Africa-Steinbeis-Europa-Zentrum	
13		https://www.fz-juelich.de/foe/en/News/2021/09/2021-Steinbeis-Europa-Zentrum-cooperate-in-two-major-research-projects-with-a-focus-on-Africa-Steinbeis-Europa-Zentrum	
14		https://www.fz-juelich.de/foe/en/News/2021/09/2021-Steinbeis-Europa-Zentrum-cooperate-in-two-major-research-projects-with-a-focus-on-Africa-Steinbeis-Europa-Zentrum	
15		https://www.fz-juelich.de/foe/en/News/2021/09/2021-Steinbeis-Europa-Zentrum-cooperate-in-two-major-research-projects-with-a-focus-on-Africa-Steinbeis-Europa-Zentrum	
16		https://www.fz-juelich.de/foe/en/News/2021/09/2021-Steinbeis-Europa-Zentrum-cooperate-in-two-major-research-projects-with-a-focus-on-Africa-Steinbeis-Europa-Zentrum	
17		https://www.fz-juelich.de/foe/en/News/2021/09/2021-Steinbeis-Europa-Zentrum-cooperate-in-two-major-research-projects-with-a-focus-on-Africa-Steinbeis-Europa-Zentrum	
18		https://www.fz-juelich.de/foe/en/News/2021/09/2021-Steinbeis-Europa-Zentrum-cooperate-in-two-major-research-projects-with-a-focus-on-Africa-Steinbeis-Europa-Zentrum	

Figure 26: Website publications worksheet of the MT

Events sheet

An “Events” sheet to report all the events the partners organised or participated in to promote the project since the beginning of the project. The partners now have the possibility to choose



D8.4: Communication, dissemination, and capacity building strategy plan

more than one participating partner. Also, the type of events column has been simplified, the partners can now chose between the following options:

No	Partner	Participating Partner(s)	Type of Events	Name of Event	URL Link of event	Place City/Country	World Region Reached
3	MAK	MAK	Conference (o)		https://twitter.com/Mehereng/status/1468449761279688708?s=20&t=KUUQ-n9Z-0qbeVpNYhF2F6g	Kampala, Uganda	Eastern Africa
4	HKA	SEZ, IIR	Joint events w		https://eurafriainstitute.org/	Karlsruhe/ Germany	Europe
5	2IE	IIR	Conference (p)		https://x.com/SophiA4Africa/status/1499665670061101057?s=20&t=2aMPI6j2kgyx8COYhWkCQA	Ouagadougou/ burkina Faso	West Africa
6	HKA	HKA	Conference (o)		https://steinbeis2igmbh.sharepoint.com/_p/_r/sites/ExternSophia/Shared%20Documents/General/01%20Project%20Overview/05%20Project%20Meetings/02%20M6%20Partner%20Meeting/Presentations/00_Sophia_M6_meeting_ALL.pptx?d=wa81b609375a4318b2813e17413e6402&csf=1&web=1&e=hkGHI	Karlsruhe/ Germany	Europe
7	IIR		Conference (p)		https://twitter.com/SophiA4Africa/status/1507274891057414160?s=20&t=KUUQ-n9Z-0qbeVpNYhF2F6g	Rotterdam, Netherlands	Europe

Figure 27: Events worksheet of the MT

Scientific publications sheet

A “Scientific publications” sheet to report all the academic journal and conference papers written by the partners since the beginning of the project.

No	Partner	Participating Partner(s)*	Type of Scientific Publication*	Title	Author(s)	Main Author	D.O.I
1	IIR	2IE, MAK		SOPHIA : European funded project for vaccine storage in Africa:	M. Kauffeld; I. Colombo	I. colombo	https://doi.org/10.3021.08.010
2	2IE			Overview of solar thermal technology development and applications in West Africa: focus on hot water and its applications	N'TSOUKPOE, K. E., LEKOMBO, S. C., KEMAUSUOR, F., KO, G. K., & El Hadji Bamba, D. I. A. W.	N'TSOUKPOE, K. E.,	https://www.sciencedirect.com/science/article/pii/S0020897via%3Dihub
3	2IE			In situ performance evaluation of a solar water heating system for a hospital laundry in the Sahel	Lekombo, C. S., N'Tsoukpoe, K. E., Bahamonde, C. F., Dudita, M., Ko, G. K., Agbokou, K. S.	Lekombo, C. S.,	https://doi.org/10.1024.101459
4	HKA			Natural Refrigerants: Applications and Practical Guideline	Eckert, Michael; Kauffeld, Michael; Siegmund, Volker (Ed.)	Eckert, Michael; Kauffeld	
5	IIR			Potential applications of CO2 systems in developing countries with high ambient temperature	Ina COLOMBO, Yossr ALLOUCHE, Kokouvi Edem N'TSOUKPOE, Oliver SCHMID, Michael KAUFFELD	Colombo	http://dx.doi.org/10.1022.0019
6	HKA			Laboratory Pilot of Sophia Water Technologies for Drinking and Deionised Water	Sneha DE, DUC N. Dinh, Oliver SCHMID; Michael KAUFFELD, Bartolo GABRIELE, Alberto FIGOLI, Jan HOINKIS	Sneha De	

Figure 28: Scientific publications worksheet of the MT

Dissemination activities sheet

A “Dissemination activities” sheet to report all different types of publications made by the partners promoting the projects (Newsletters, Media, Press releases & EU channels Publications). The IIR added a “number of views” column to help keep track of the communication and dissemination KPI.



D8.4: Communication, dissemination, and capacity building strategy plan

List of (e)Newsletters, Media coverage, Press releases, Articles in Technical Journals & EU Channel Publications								
No	Partner	Participating Partner(s)*	Type of Disseminations	Year/Date of Publication	Available in Open Access?	Title	URL Link	Number of views
1								
2								
3								
4	1	IIR	SophiA Newsletter, eSophiANews	2022	Yes	e-SophiA: Discover the SophiA Demonstration Site Hospitals	https://mailchi.mp/sophia4africa.eu/1st-e-sophia-newsletter	
5	2	IIR	News in Partner's Newsletters	2022	Yes	e-SophiA: WHAT HAS SOPHIA ACHIEVED IN ONE YEAR?	https://mailchi.mp/sophia4africa.eu/2nd-e-sophia-newsletter	
6	3	IIR	SophiA Newsletter, eSophiANews	2023	Yes	e-SophiA: SophiA wishes you a happy new year 2023	https://mailchi.mp/sophia4africa.eu/e-sophia-news-n3	
7	4	IIR	Media (e.g. Radio, TV, mailchimp campaigns) Video/Film Webinar Publication to EC communication channels Publication in Technical Journals SoFact Other	2023	Yes	e-SophiA: Catch up on SophiA	https://us3.campaign-archive.com/?u=a8c99ef820cc46f59facc787&id=612e19b945	
8	5	IIR		2023	Yes	e-SophiA: SophiA celebrates WRD	https://mailchi.mp/sophia4africa.eu/e-sophia-news-5th-edition	
9	6	IIR	SophiA Newsletter, eSophiANews	2023	Yes	e-SophiA: Watch the SophiA presentation video!	https://us3.campaign-archive.com/?u=a8c99ef820cc46f59facc787&id=e803496404	
10	7	IIR	SophiA Newsletter, eSophiANews	2024	Yes	e-SophiA: The SophiA team wishes you a happy New Year!	https://mailchi.mp/sophia4africa.eu/re-ad-the-e-sophia-news-7th-edition?e=UNIQID	
11	8	IIR	SophiA Newsletter, eSophiANews	2024	Yes	e-SophiA: The containers are now in Burkina Faso!	https://mailchi.mp/sophia4africa.eu/re-ad-the-e-sophia-news-8th-edition	

Figure 29: Dissemination activities worksheet of the MT

So Me sheet

A “So Me” sheet to report all the partners posts and views, likes and reposts, necessary to keep track of the communication KPI. For the moment, as the IIR is currently updating the monitoring tool, the sheet is not yet filled with data, but it will be very soon.

List of Social Media posts							
No	Partner*	Type of Social Media	Title	URL Link	Number of views	Number of Likes and Reposts	
1							
2							
3							
4	1	IIR	YouTube	Projects on clean & efficient refrigeration solutions for food & healthcare in developing countries	https://youtu.be/yZ_YESmP-hE7?si=JEX6_y3eG2kGb-C		9
5	2	IIR	YouTube	Introduction to the SophiA project (EN & FR)	https://youtu.be/VlicfxEg40Y?si=OAHlQOGHf257Lr0L		
6	3	IIR	YouTube	SophiA New year 2024	https://youtu.be/qGRNmlTVabQ?si=gG0lbh_1i0-y11Bv		
7	4	IIR	YouTube	Summary of the SophiA Project	https://youtu.be/4-zF2Qzywd0?si=857nH56j3-TcU9uA		
8	5	IIR	YouTube	Discover this project that is accelerating sustainable development in Africa	https://youtu.be/vTtzt2S86Kw?si=N_y0Qh9CdnhvU2-F		
9	6	IIR	YouTube	Introduction to the SophiA project in Julia	https://youtu.be/JtyLGSOf9Xw?si=bHBIKylC4z8z3-ex		
10	7	IIR	YouTube	Nouvelle technologie SophiA : Solar Steam from Scheffler Reflectors	https://youtu.be/Mkp3WUWfJAM?si=jOit_Tun9lF4JzAa		
11	8	IIR	YouTube	Les conteneurs SophiA arrivent à l'hôpital Leo	https://youtu.be/CdXHCw8Cmk?si=jB-fn2QBR8SaQjgbs		
12	9	IIR	YouTube	Nouvelle technologie SophiA : PVmedPort	https://youtu.be/vK5AKpa2Clo?si=n0W4gQSF8Ew_B3k		
			Nouvelle technologie SophiA : Solar Steam from	https://youtu.be/G_HZaG5nFJQ?si=Ql_2			

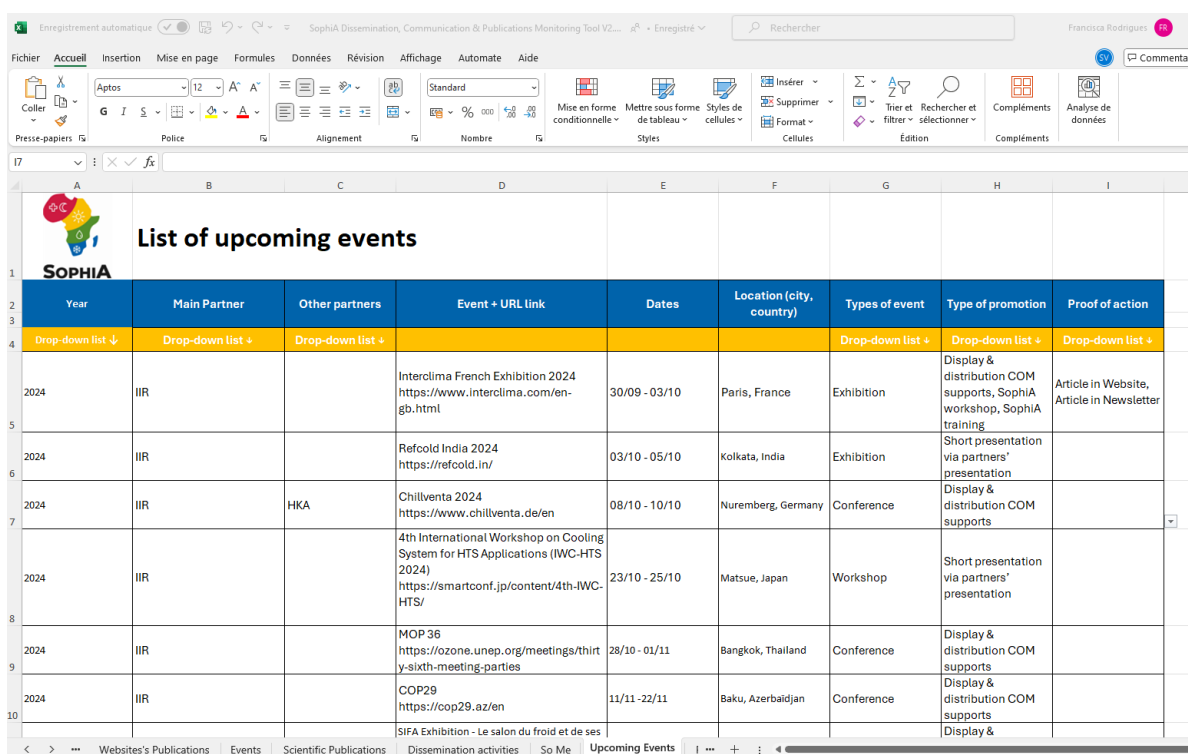
Figure 30: So Me worksheet of the MT

Upcoming events sheet

An “Upcoming events” sheet which includes an extensive list of potential events to attend in order to promote and disseminate the project findings. The list also provides information about the event's date, location, type, type of the project promotion, partner involved, and number of people potentially reached. The list is regularly updated and covers events until 2025.



D8.4: Communication, dissemination, and capacity building strategy plan



The screenshot shows a Microsoft Excel spreadsheet with the title 'List of upcoming events'. The spreadsheet is organized into columns for event details. The data is as follows:

Year	Main Partner	Other partners	Event + URL link	Dates	Location (city, country)	Types of event	Type of promotion	Proof of action
2024	IIR		Interclima French Exhibition 2024 https://www.interclima.com/en-gb.html	30/09 - 03/10	Paris, France	Exhibition	Display & distribution COM supports, SophiA workshop, SophiA training	Article in Website, Article in Newsletter
2024	IIR		Refoold India 2024 https://refold.in/	03/10 - 05/10	Kolkata, India	Exhibition	Short presentation via partners' presentation	
2024	IIR	HKA	Chillventa 2024 https://www.chillventa.de/en	08/10 - 10/10	Nuremberg, Germany	Conference	Display & distribution COM supports	
2024	IIR		4th International Workshop on Cooling System for HTS Applications (IWC-HTS 2024) https://smartconf.jp/content/4th-IWC-HTS/	23/10 - 25/10	Matsue, Japan	Workshop	Short presentation via partners' presentation	
2024	IIR		MOP 36 https://ozone.unep.org/meetings/thirty-sixth-meeting-parties	28/10 - 01/11	Bangkok, Thailand	Conference	Display & distribution COM supports	
2024	IIR		COP29 https://cop29.az/en	11/11 - 22/11	Baku, Azerbaijan	Conference	Display & distribution COM supports	
			SIFA Exhibition - Le salon du froid et de ses				Display &	

Figure 31: Upcoming events worksheet of the MT

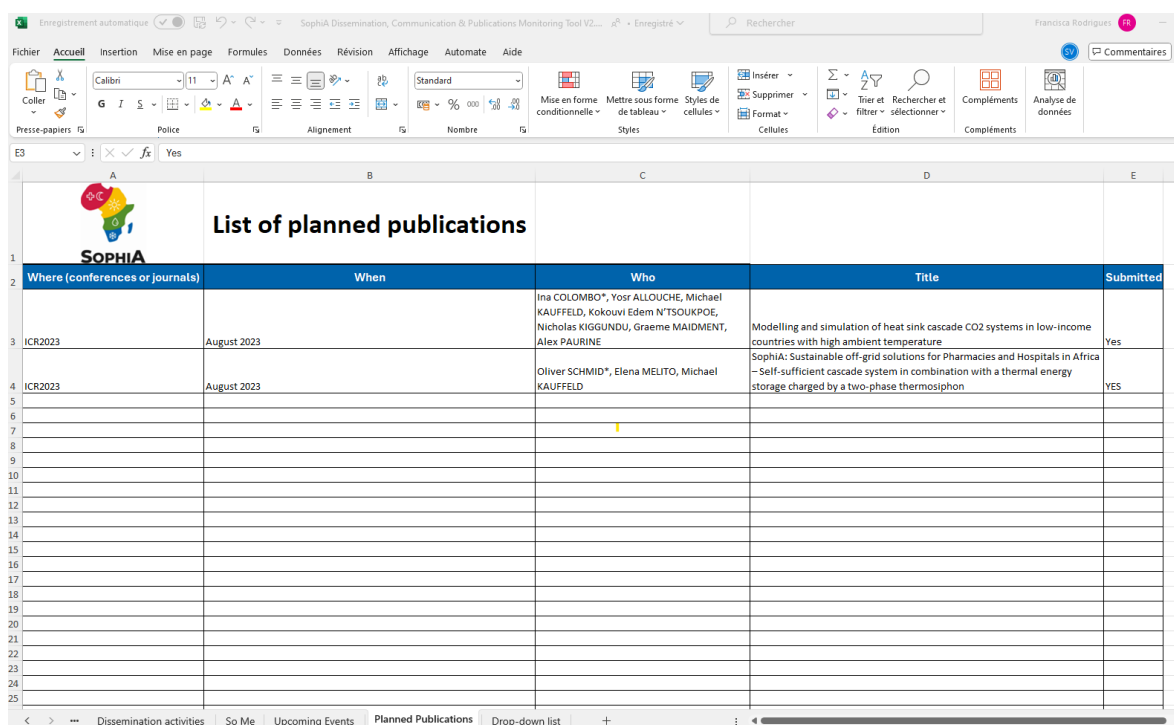
For the moment, there is a total of 30 upcoming events which are in the “Upcoming events” webpage: <https://sophia4africa.eu/upcoming-events/>

Planned Publications sheet

A “Planned Publications” sheet to report all the planned publications in conferences or journals upcoming. The partners shall come back to this sheet to mention when the publication has been submitted.



D8.4: Communication, dissemination, and capacity building strategy plan



Where (conferences or journals)	When	Who	Title	Submitted
ICR2023	August 2023	Ina COLOMBO*, Yosr ALLOUCHE, Michael KAUFFELD, Kokouvi Edem N'TSOUKPOE, Nicholas KIGGUNDU, Graeme MAIDMENT, Alex PAURINE	Modelling and simulation of heat sink cascade CO2 systems in low-income countries with high ambient temperature	Yes
ICR2023	August 2023	Oliver SCHMID*, Elena MELITO, Michael KAUFFELD	SophiA: Sustainable off-grid solutions for Pharmacies and Hospitals in Africa – Self-sufficient cascade system in combination with a thermal energy storage charged by a two-phase thermosiphon	YES

Figure 32: Planned Publications worksheet of the MT

The monitoring tool will facilitate the comparison of current activities to the original dissemination plan. The final established list of dissemination activities and scientific publications will be included in the Final Communication, Dissemination and Capacity Building Report (D8.5, M48).

3.2.2 Dissemination activities

The following table lists the different dissemination activities extracted from the dissemination monitoring tool showing the results since the beginning of the project:

Table 6: List of Dissemination activities

List of Dissemination activities	TOTAL
News in Partner's Newsletters	11
SophiA Newsletter, eSophiANews	13
Press Release	2
Media (e.g. Radio, TV, mailchimp campaigns)	9
Video/Film	1
Publication to EC communication channels	0



Publication in Technical Journals	3
SoFact	5

3.2.3 Scientific Publications

Here is a table showing the detail of the different type of publications:

Table 7: List of the Scientific Publications

List of the Scientific Publications	TOTAL
Article in conference proceedings	5
Article in Peer-Reviewed Journal	3
Book / Monograph/ Chapter in a Book	1
Editorial journal	1
Academic poster	4
Thesis / Dissertation	0
Others	0

3.2.4 Events

Here is a table showing the number of participation in each kind of events :

Table 8: List of Events

List of Events	TOTAL
Conference (organisation)	1
Conference (presentation)	25
Conference (participation only)	3
Workshop (organisation/participation)	3
Training (organisation/participation)	6



Meeting (organisation/organisation)	9
Demonstration/Launched day	1
Trade Fair/exhibition (organisation/presentation/participation)	4
Brokerage or pitch event (organisation/presentation/participation)	0
Joint events with other projects EU/H2020/national	23
Event meant for general public (organisation/presentation/participation)	1
Other event (organisation/presentation/participation)	3

3.2.5 Timeline

Error! Reference source not found. illustrates the suggested dissemination timeline (including the capacity building), for the scientific publication, trainings, dissemination in events, press releases.



Figure 33: Suggested timeline for the capacity building materials.

Most of the targets stated in the GA (Page 31) for the dissemination have been reached, except of the technical publications in specialised magazines/journals. This due because technical partners have been busy with the installation of the first containers in Burkina Faso. However, it is planned to publish the ready SOFACTs in technical journals. Also for the expected target



D8.4: Communication, dissemination, and capacity building strategy plan

of each partner should attend at national level 2 events per year (excluded academic conferences) was over estimated because it is not all partners who have been able to attend industrial fairs, workshop and the first demonstration day in Burkina Faso.

Table 9: Dissemination KPIs to date from the SophiA Monitoring tool

	Indicator name	Target (KPI)	Number reached	Details	Total
Dissemination KPI	Academic papers	7	1	Book or hapter in a book	13
			3	Academic Posters	
			5	Article in conference proceedings	
			1	Editorial in Peer review journal	
			3	Articles in peer review journal	
	Articles in magazines	20	5	SOFACT	8
			3	Publication in technical journals/magazines	
	Press releases	16	2	Press releases	9
			7	E-newsletter	
	Participation in academic conferences	> 20 conferences	25	Publications in conference	27
			2	Conference (participation only)	
		> 500 participations	24000	Events'participants reached	
	Participation in industrial fairs, workshop and demonstrations	> 2 events per year per partner	3	Workshop (organisation/participation)	27
			6	Training (organisation/participation)	
			9	Meeting (organisation/organisation)	
			1	Demonstration/Launched day	
			4	Trade Fair/exhibition (organisation/presentation/participation)	
			1	Event meant for general public (organisation/presentation/participation)	
			3	Other event (organisation/presentation/participation)	
		500 stakeholders reached	136000	Events'participants reached	
	SophiA final event	1 event at the end of the project			
		> 100 participants			
	Direct contact with ministers and public bodies	> 8 meetings with relevant ministries	37	Principally african ministers or high commissioners	
	Collaboration with others projects	>3 meetings	23	Sitsters' Projects	



4. CAPACITY BUILDING AND KNOWLEDGE EXCHANGE NETWORK

4.1 Capacity Building Strategy

The building capacity strategy aims to ensure the technical understanding of potential end users of the different SophiA systems and components. The beneficiaries of SophiA capacity building activities will be included in the SophiA Knowledge Exchange Network. This network also includes participants and partners of other (sister) projects, organisations, companies, academic groups, clusters and initiatives with similar goals, activities or technologies as SophiA.

The SophiA capacity building strategy will evolve during the project, considering the (new) stakeholders needs. The initial stakeholder groups are:

- students from SophiA academic partners;
- local and regional stakeholders from hospitals, water sanitation and agricultural companies from West, East, Central and Southern African regions;
- start-ups, innovators, technological companies and other industrial players.

Depending on the audience addressed, the following activities are planned:

- educational and training sessions about SophiA solar, water and refrigeration technologies;
- elaboration of a training manual;
- development of training support materials;
- train-the-trainer courses;
- handbooks for building SophiA systems on site;
- demonstration site launch days and seminars.

4.1.1 Demonstration Site Launch Days and Seminars

Since the beginning of the project, the consortium agreed on the organisation of Demonstration Site Launch Days in Burkina Faso, Cameroon, Malawi, and Uganda. This activity is related to the Task 8.4: Organisation of Demonstration Site Launch Days and is led by the IIR. The goal is to gather national, regional, and international participants in these events, including policymakers, municipalities, EU Delegations, companies, planners, researchers, developers, operators, end users, journalists, and the general public.



The first Demonstration Site Launch Day already took place in Burkina Faso on June 27 and was attended by more than 200 people. The inauguration happened in the morning followed by a training session in the afternoon (see 5.4.1 section below for more details). Animated system demonstrations were produced to explain the principles of the demonstration sites. Both formal and informal invitees were gathered such as the region governor, the regional director of health, village chiefs, the minister of energy, the minister of health, the minister of water and environment, or even university students. A master of ceremonies was present to host the day. Invited guests gave speeches and interviews. An online questionnaire, accessible via a link or QR code, has been proposed to benefit from travel compensation. Interviews with the participants were recorded to gather feedback, and the event has been widely promoted to anticipate a maximum number of participants.



Figure 34: Inauguration day at Léo hospital

The consortium also plans to use this kind of opportunity to organize international seminars on the cold chain, conducted by the IIR Working Group on “Cold Chain in Hot Countries” during the next launch days in Cameroon for instance. An “IIR International Guideline” will be developed with the communication team for partners to use when organizing these seminars.

4.1.2 Handbook for building SophiA systems on-site

Two handbooks will be set up to support local usage of SophiA systems, and thus, contribute to a sustainable local economic development. The handbooks are addressed to the end users and technicians which will use the SophiA systems, and the people are tasked with maintaining



the SophiA systems. This activity is related to the Task 8.5: Elaboration of a handbook for building SophiA systems on-site which has been led by the partner Everflo since M18. Due to the delay in Task 5.1. Building the first SophiA systems, the first handbook is also delayed. Everflo began by determining the framework for the handbook with the following sections being defined: Introduction, Container Layout, PV System, Refrigeration System, Water Treatment System, PV Steam Cube and SCADA Control System. Each of the subsystems of the SophiA project are mentioned in the handbook and a collaboration between all technical partners was necessary to create a comprehensive document.

Each section includes a description of the subsystem, on-site assembly procedure, safety warnings, operating procedures, maintenance, trouble shooting and electrical documentation. The handbook is written in English, but additional photos and visual representations are added for clarity. Raach Solar were responsible for creating the PV System documentation with assistance from SPF-OST. Everflo assisted with the on-site assembly documentation for the PV support frame. This section has been completed. The container layout and refrigeration sections were the responsibility of Everflo. The HKA refrigeration team created the safety warning section of the refrigeration system using their extensive knowledge on natural refrigerants. These sections are complete. The HKA water team were responsible for creating the water treatment system documentation based on the knowledge of setting up the system in South Africa, the results from the lab tests and field tests. This section was completed. Simply Solar were responsible for creating the PV steam cube documentation with assistance from SPF-OST. This section has been completed. The final subsection, SCADA control system was the responsibility of SPF-OST. The control was updated after the installation of the first container, and this was documented in the handbook. This section of the handbook has been completed.

The main document was shared on the SophiA sharepoint for all partners to contribute towards and it is currently under review. An example from the handbook is shown below.



2. CONTAINER LAYOUTS

The following section visually depicts the refrigeration container and water container internal layouts. The subsequent sections will refer to the rooms and systems shown below.

2.1 Refrigeration Container

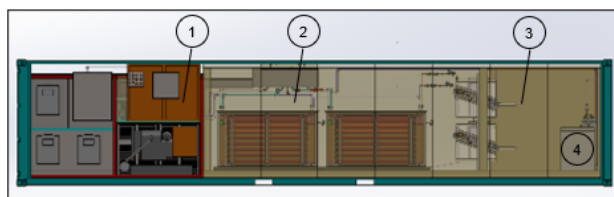


Figure 1: Refrigeration Container Layout

1. Plant Room / Electrical Room
2. +5 °C Cold Room
3. -30 °C Freezer Room
4. -70 °C Chest Freezer

2.2 Water Container

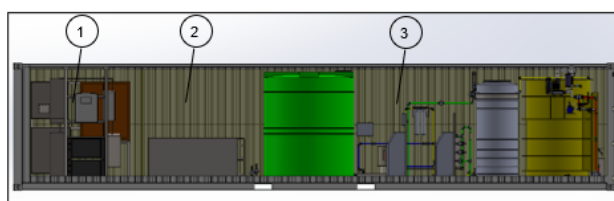


Figure 2: Water Container Layout

1. Electrical Room
2. PV Steam Cube Room
3. Water Treatment Room

Figure 35: Examples of Chapters of the handbook

4.1.3 Educational and training sessions

The first local training of technicians in Burkina Faso began on 23 June in Kombissiri and continued until 28 June in Léo, with the participation of 28 people, including 24 men and 4 women.

In Kombissiri (23-26 June), participants were divided into two separate rooms to follow four of the six modules offered. The “Water Treatment” and “Refrigeration” modules took place in parallel, as did the “Photovoltaic Solar” and “Solar Water Heaters” modules. The two SCADA and PVsteamCube modules were followed by all participants. At the end of this phase, a progress report was held with the participants to gather their impressions of the SophiA project.

Training continued in Léo on 27 and 28 June. Before continuing the sessions, the participants and trainers took part, alongside the Director of Research of 2iE representing the General Director of 2iE, in the inauguration of the containerized systems for sustainable cold storage and water treatment at the Medical-Surgical Center Clinique Dr Sedogo.

The rest of the training consisted of the discovery of the two SophiA containers (refrigeration and water treatment) and the related installations (PVsteamCube thermal storage and



Scheffler reflector), as well as the associated applications, under the supervision of two technicians.

The training was concluded by the presentation of certificates of participation to the participants on June 28, 2024.

2iE

ATELIER DE FORMATION CONTINUE

Thème : Formation sur les solutions énergétiques durables et le traitement de l'eau pour les établissements de santé en milieu rural et isolé

Kombissiri et Léo – Burkina Faso, du 24 au 28 juin 2024

PROGRAMME PREVISIONNEL

Semaine 1	Lundi 24 juin	Mardi 25 juin	Mercredi 26 juin	Jeudi 27 juin	Vendredi 28 juin
Lieu de travail		Kombissiri		Léo	
08h00 - 10h00	Accueil des participants - Présentation des participants et recueil de leurs attentes - Présentation des objectifs et du programme	Traitement de l'eau (Salle 1) Seyram SOSSOU	Chauffe-eaux solaires (Salle 1) K. E. N'TSOUKPOE	Inauguration	Travaux pratiques Conteneurs SophiA et systèmes connexes P. SEOGO & D. KABORE
10h00 - 10h30	PAUSE CAFE				
10h30 - 12h30	Traitement de l'eau (Salle 1) Seyram SOSSOU	Chauffe-eaux solaires (Salle 1) K. E. N'TSOUKPOE	SCADA (Tous) K. S. AGBOKOU	Inauguration	Travaux pratiques Conteneurs SophiA et systèmes connexes P. SEOGO & D. KABORE
12h30 - 13h30	PAUSE DE JEUNER				
13h30 - 15h30	Traitement de l'eau (Salle 1) Seyram SOSSOU	Chauffe-eaux solaires (Salle 1) K. E. N'TSOUKPOE	PVSteamCube (Tous) D. KABORE	Travaux pratiques Conteneurs SophiA et systèmes connexes P. SEOGO & D. KABORE	Evaluation Clôture de la formation Retour des participants sur Ouaga

POI-EN4 V2 du 18/02/2015

☐ Cours théorique
 ☐ TD/TP
 ☐ Table ronde
 ☐ Sortie terrain ou Visite

Institut International d'Ingénierie de l'Eau et de l'Environnement
 Institut 2iE - Rue de la Science - 01 BP 594 - Ouagadougou 01 - BURKINA FASO - Tél. : (+226) 25. 49. 28. 00 - Fax : (+226) 25. 49. 28. 01 - Email : formation.continue@2ie-edu.org - www.2ie-edu.org

Figure 36: First local training schedule in Burkina Faso, June 23 – June 28, 2024





Figure 37: Launch of the first training session for local technicians in Burkina Faso



Figure 38: Water treatment training class



Figure 39: Practical work on local simple and vacuum tube solar water heaters



Figure 40: Training participants taking part in the inauguration ceremony in Léo



Figure 41: Awarding of certificates to participants of the SophiA training





Figure 42: Group photo with participants and trainers in Leo, June 28, 2024

4.1.4 SophiA Knowledge Exchange Network

Since the establishment of the SophiA Knowledge Exchange Network (KEN) in M6, SEZ and other project partners have focused on fostering collaboration, knowledge sharing, and aligning efforts towards shared objectives. This groundwork has led to meaningful collaborations. The activities from M6-M24 were documented in D8.3.

This section now summarizes the key activities and meetings that took place between M25 and M36, categorized by the organizing bodies: Green Deal Support Office (GD-SO), Horizon Results Booster (HRB), and other collaborative meetings. The activities described herein reflect the network's ongoing commitment to establishing strong partnerships and addressing common challenges.

Green Deal Projects Support Office (GD-SO) and the Clean Energy Working Group (WG)

The **Green Deal Projects Support Office (GD-SO)** aims to support the 73 projects that received financial support through the European Green Deal funding call. Its primary objectives are to raise awareness of the funded projects, facilitate collaboration between them, enhance networking opportunities and promote knowledge exchange.

The **Clean Energy Working Group (WG)** within the GD-SO consists of 16 projects drawn from five different European Green Deal Calls. These projects focus on energy decarbonisation, specifically through the development and deployment of innovative technologies aimed at advancing renewable energy solutions and their integration into existing energy systems.



Since the start of the project, SophiA participated to and benefitted a lot from the different meetings organized either by the WG or – more generally – by the GD-SO. These initiatives very much helped to share knowledge, gathered experiences throughout project work and foster synergies between them.

The following provides an overview of the different meetings SophiA has attended from M25-M36 and in the scope of the GD-SO and Clean Energy WG:

- 4 October 2023 - Webinar on Community and Bottom-up Transitions in Energy and Climate Change Adaptation

SEZ participated in a GD-SO webinar on community-led approaches to energy transitions. The session included projects from the Green Deal call and external initiatives, with discussions centring on the challenges of bottom-up energy transitions, incorporating experiences from non-EU regions, notably Africa.

- 12 October 2023 – 4th meeting of the Clean Energy Working Group (WG)

SEZ attended the 4th WG meeting to review 2023 activities. The session highlighted success stories and challenges from participating projects. GD-SO offered future support in communication activities, policy engagement, and event participation for the WG projects.

- 11 December 2023 – Workshop on Shared Project Challenges

The meeting aimed to bring together different working groups to discuss and share the common challenges faced, developing a shared understanding and exploring potential solutions. Mentimeter was used as platform to facilitate collaboration. It showed that for the particular challenges SophiA is facing, contact with other Africa-related projects and the LEAP-RE network will probably be of highest value.

- 3 April 2024 – Individual Call with GD-SO

SEZ and SPF-OST participated in a call with GD-SO to provide feedback on how the Clean Energy WG can better meet the needs of individual projects. As a result, SophiA registered for the Peer-to-Peer meeting on 24 April 2024 and informed GD-SO about the upcoming joint webinar with HRB.

- 24 April 2024 – Clean Energy WG Meeting

On 24th April the Clean Energy WG Meeting took place in Brussels and online. SophiA was represented online by SEZ, SPF-OST and IIR. Topics discussed included outreach, policy, and sharing resources across projects. Participants agreed that resources across different topics should be shared between the projects and that regular common webinars focusing on these topics could be helpful.



- 25 April 2024 – Board of Coordinators Meeting

The Board of Coordinators Meeting took place the following day, on 25th April 2024. The welcoming session by DG Research and Innovation, was followed by some project success stories. Secondly, breakout sessions were organized to discuss project challenges, how to reach policymakers and sustainability of project results. For SophiA, the coordinator HKA together with partner SPF-OST participated in the meeting.

- 7 May 2024 – Peer-to-Peer Session on Green Energy Transition in Africa

On 7th May a Peer-2-Peer session for the Green Energy Transition in Africa took place online and was organized by GD-SO together with LEAP-RE. Here, SophiA partners from SPF-OST, HKA, 2iE, MAK and SEZ joined the session. The session sparked discussions about collaboration with the LEAP-RE PURAMS project on solar cooking solutions.

- 24 May 2024 - Collaborative Session on Project Challenges

On 24th May 2024, a collaborative session on project challenges and solutions organized by GD-SO took place. For SophiA, HKA participated raising current challenges with administrative processes and bureaucratic delays. GD-SO noted this and will raise these concerns with the EU.

- 4 June 2024 – LEAP-RE Clean Cooking Webinar

The contact with the LEAP-RE project PURAMS made during the Peer-2-Peer session on 7th May 2024, led to an invitation to speak for SophiA at the LEAP-RE Clean Cooking Webinar “Solar powered solutions: Advancing Clean Cooking Technologies in African Countries” on 4th June 2024. The webinar aimed to highlight the research activities, results, lessons learnt, projected impacts and challenges that have been carried out in the scope of LEAP-RE’s innovation project PURAMS and from external projects (like SophiA) researching on solar cooking on the African continent. For SophiA, project partner SISO and SPF-OST participated and held a presentation about the Scheffler reflectors, a technology developed and proposed in SophiA.

Horizon Results Booster (HRB) Meetings

Beginning of 2024, SophiA’s sister project REFFECT Africa initiated a common cooperation with the European Horizon Results Booster (HRB). Several online meetings took place together with the other sister projects and HRB to exchange about a common initiative that resulted in a joint webinar, held in June 2024. The different meetings between January and June 2024 are summarized in the following:



- 11 January 2024 – First meeting with Horizon Results Booster

SEZ, SPF-OST, HKA, and IIR participated in the first HRB meeting, initiated by REFLECT Africa and HRB. During this meeting, the participants agreed to organize a joint webinar and social media campaign, with further collaboration through the HRB Workspace.

- 6 February 2024 – Planning Meeting for HRB Joint Webinar

The second HRB meeting scheduled the joint webinar for June 2024. Moreover, SophiA suggested organizing a final event in Brussels, in collaboration with sister projects, to coincide with the project's conclusion in September 2025.

- 12 March 2024 – Finalization of Webinar Plan

During the third HRB meeting, the structure and content of the 4 June 2024 webinar were finalized. The session's panel questions were confirmed, and next steps were outlined.

- 4 June 2024 – HRB Joint Webinar

The HRB Joint Webinar then took place on 4th of June 2024. Every sister project presented for 15 minutes before a discussion between all projects centered on challenges in technology transfer between the EU and Africa, project sustainability, and overcoming market barriers.

Other Collaborative Meetings and Activities

- 16 January 2024 – Clustering Meeting with SESA

On 16th January, the SophiA sister project SESA initiated a clustering meeting together with all sister projects to discuss possible cooperation for clean cooking and off-grid solar energy thematic areas. The MIRO platform facilitated discussions, and SophiA was represented by SPF-OST and HKA.

- 25 January 2024 – MoU with PrAEctiCe Project

Since SEZ is also involved in another project related to Africa, it had the idea to establish a memorandum of understanding (MoU)/cooperation in communication with SophiA. The respective project is called PrAEctiCE and also has other common partners with SophiA: HKA and MAK. In a bilateral call with the PrAEctiCe project on 25th January 2024, it was decided to sign a MoU for cooperation in communication and dissemination activities. Additionally, the two projects from then on linked each other to their project websites and followed each other in social media.

- 1 March 2024 – PrAEctiCe at the M30 Consortium Meeting.

Following the bilateral exchange and agreement to involve each other where relevant, SophiA invited PrAEctiCe to the M30 Consortium Meeting to give a general project presentation and



enter into contact with all SophiA project partners. Therefore, on 1st March 2024, Nicholas Kiggundu (MAK) presented the PrAectiCe project. MAK, HKA and SEZ are common project partners in both projects which will facilitate the exchange. We will see how to further combine activities and connect with each other to increase our impact.

Over the last 30 months, building collaboration and knowledge exchange activities to which SophiA participated led to some fruitful discussions and new insights into common challenges and possible solutions. Connection in social media also helped to stay up to date with each other's progress, information about upcoming interesting events and further collaboration opportunities.

Throughout the next months, further activities and meetings will be organised, based on the results identified in the last steps. The Knowledge Exchange Network intends to meet once a year, online and when possible, on-site, in combination with other project activities, workshops or events. Where deemed useful and necessary for members of the Network, different speakers or experts will be invited to join the meetings. Between meetings, SophiA partners will continue to maintain the contact and collaboration with the Knowledge Exchange Network members. This will include, for example, the distribution of communication material including news or articles.

4.1.5 Capacity building timeline

Error! Reference source not found. illustrates the suggested capacity building timeline, including educational and technical session, showrooms, handbooks and knowledge exchanges.

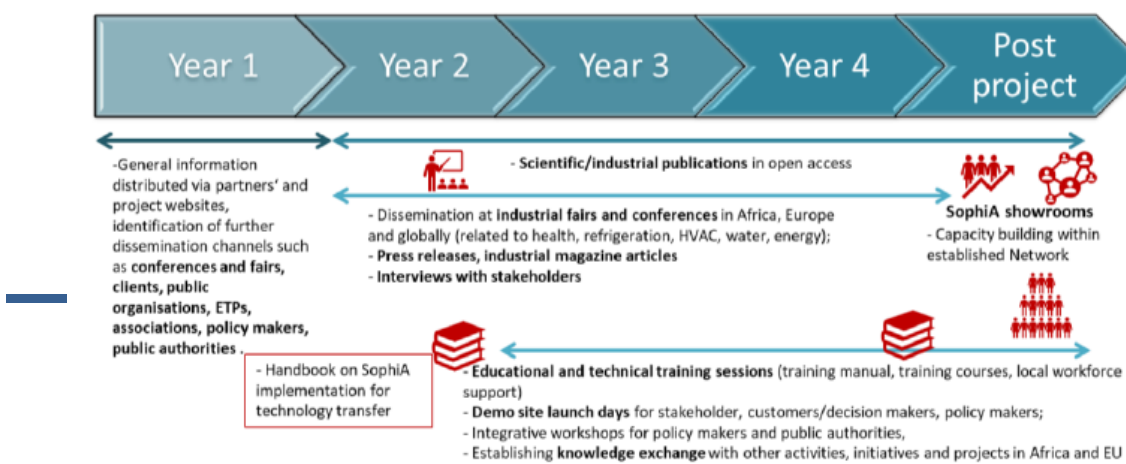


Figure 43: Suggested timeline for the capacity building materials.

Most of the targets stated in the GA (Page 31) for the dissemination have been reached, except of the technical publications in specialised magazines/journals. This due because technical partners have been busy with the installation of the first containers in Burkina Faso.



D8.4: Dissemination, communication and capacity building strategy plan

Table 10: Capacity building KPIs to date from the SophiA Monitoring tool

	Indicator name	Target (KPI)	Number reached	Details	Total
Capacity Building KPI	Demo launch days	4 demo launch days 30 participants in each	1	First launch day in Burkina Faso	
		>30 participants in each	200		
	Handbook	1 handbook with 2 editions	0	Significant delays	
	Organisation and/or participation to trainings	Training of 60 local and regional operators (30% women)	80	2 summer schools (40 participants each)	130
			22	SISO training in August	
			28	Training in Burkina Faso (10% of women)	
	SophiA Knowledge exchange network meetings (yearly)	Yearly meetings	16	16 meetings	
		>20 participants	60		
	Showrooms	4 (in Burkina Faso, Uganda, Cameroon and Malawi) after the end of the project	1	In Burkina	



5. CONCLUSIONS

This report (D8.4) presents an updated version of the communication, dissemination and capacity building strategy plan (D8.1) drafted by the IIR as work package leader and updated for D.8.2 and D.8.3. The initial strategy on the communication, dissemination and capacity building adopted by the SophiA partners aims to ensure the maximum return on investment provided for all financing parties – the SophiA consortium partners and the European Commission.

The communication strategy plan highlights the target group and stakeholders and the general SophiA key message.

New content is regularly added to the SophiA website, especially on News & Events and Downloads pages.

The SophiA social media LinkedIn and X (ex-Twitter) accounts are very active, thanks to the #Sophiabottle and #Sophiacup. Traffic on YouTube account is increasing with the publication of numerous SophiA system testimony videos.

Newsletters and e-newsletters are regularly published, the next Newsletter is actually coming up end of September. The SOFACTs are still getting released monthly.

The SophiA consortium is fully committed to fulfil the dissemination strategy plan. Partners have so far presented, organised, participated in approximately 80 events at which they have displayed and distributed communication support materials since the beginning of the project. So far, technical partners published 15 publications.

Several training and education activities were held this year and the Knowledge Exchange Network task leaders have attended and participated to collaboration meetings, focusing on knowledge sharing and learning purposes.

This communication, dissemination and capacity building strategy plan strategy plan is a living document, and it will be updated throughout the project by the WP8 leader, based on the information provided by the partners through the dissemination monitoring tool. The final Communication, Dissemination and Capacity Building Strategy Plan (M48) will summarise all project achievements.





sophia4africa.eu

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N. 101036836.

Disclaimer: The sole responsibility for the content of this paper lies with the authors.

It does not necessarily reflect the opinion of the European Commission (EC).

The EC is not responsible for any use that may be made of the information it contains.

© SOPHIA. All rights reserved.

Any duplication or use of objects such as diagrams in other electronic or printed publications is not permitted without the author's agreement.