



**NESTLER**

**oNe hEalth SusTainability partnership between  
EU-AFRICA for food sEcuRity**

## **Deliverable D6.4**

### **NESTLER Dissemination and Communication Activities**

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<b>Abstract</b>	<p>This report provides an overview of the dissemination and communication activities carried out by the NESTLER consortium from Month 19 to Month 42. It presents the implementation of the project's communication strategy and outlines the actions undertaken to enhance its visibility and impact. The document covers a wide range of activities, including scientific publications, participation in conferences, workshops, and training sessions, as well as engagement in stakeholder and industrial events. It also highlights collaboration with EU-funded projects, media outreach efforts, and liaison with standardisation bodies. Furthermore, the report evaluates performance against Key Performance Indicators across four phases and confirms compliance with Horizon Europe communication requirements. It underscores the promotion of NESTLER's AI-driven digital platform and its contribution to sustainable One Health innovations.</p>



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# Table of Contents

List of Figures.....	7
List of Tables.....	9
Definitions, Acronyms and Abbreviations .....	10
Executive Summary.....	11
<b>1. Introduction .....</b>	<b>12</b>
1.1. Purpose of the Deliverable .....	12
1.2. Reporting period.....	13
1.3. Structure of the document .....	13
<b>2. Dissemination &amp; Communication Strategy .....</b>	<b>14</b>
2.1. Dissemination Objectives .....	14
2.2. Target Audiences .....	15
2.3. Communication Channels Used.....	15
2.3.1. Digital Channels .....	15
2.3.2. Scientific Dissemination .....	16
2.3.3. Events & Stakeholder Engagement .....	16
2.3.4. Media & Outreach.....	16
<b>3. Dissemination &amp; Communication Material.....</b>	<b>17</b>
3.1. Online communication .....	17
3.1.1. NESTLER website .....	17
3.1.2. LinkedIn account .....	21
3.1.3. Twitter account .....	22
3.1.4. Video/Media material .....	22
3.1.5. Website and Social Media Analytics.....	23
3.2. Roll-Up banners – posters .....	25
3.3. NESTLER Newsletters.....	26
3.3.1. Newsletter #1 .....	27
3.3.2. Newsletter #2.....	28
3.3.3. Newsletter #3.....	29
3.4. NESTLER Brochures and leaflets .....	30
3.4.1. NESTLER Brochures .....	30
3.4.2. NESTLER Leaflets .....	32
<b>4. Communication Activities.....</b>	<b>33</b>
4.1. 29 <sup>th</sup> International Fair for Agricultural Machinery, Equipment and Supplies, Greece (AGROTICA 2022)....	33
4.2. 2 <sup>nd</sup> Phytopathology Conference: Protection of cultivated and forest plants, food security and agricultural entrepreneurship, Cameroon .....	34
4.3. 30 <sup>th</sup> AGROTICA 2024 .....	35
4.4. Africa Fertilizer and Soil Health (AFSH) summit .....	35
4.5. Ethiopian Food System Resilience Program (EFSRP) .....	36

4.6.	Bilateral meetings and dissemination meetings.....	37
4.7.	1st Automation & Robotics expo 2024.....	39
4.8.	Copernicus Land Monitoring Service (CLMS) General Assembly.....	40
4.9.	Zootechnia 2025 .....	41
4.10.	Agro Vision 2025.....	42
4.11.	8th International Verde.Tec Exhibition 2026.....	42
4.12.	31 <sup>st</sup> AGROTICA 2026 .....	44
4.13.	Press Releases and Media .....	45
4.14.	Capacity Building .....	46
4.15.	Farmers’ Training on Black Soldier Fly (BSF) Larvae Farming .....	48
<b>5.</b>	<b>Dissemination activities.....</b>	<b>50</b>
5.1.	INSECTA 2023 International Conference Magdeburg, Germany,.....	50
5.2.	CISAR Symposium .....	50
5.3.	Workshop on “Exploration of Antimicrobial Compounds from Edible Insects and Chicken parts for Applications in Food and Industry” .....	51
5.4.	IEEE AFRICON 2023 & NESTLER 3 <sup>rd</sup> Plenary Meeting.....	52
5.5.	2nd IEEE Conference on Agrifood Electronics (CAFÉ 2024).....	52
5.6.	Organization of Technical workshops.....	53
5.7.	1st One-Health Agri-Tech Workshop.....	55
5.8.	One-Health sustainability roadmap for EU-Africa partnership release.....	56
5.9.	NESTLER Stakeholders’ meetings .....	57
5.9.1.	1 <sup>st</sup> Stakeholders meeting 13.03.2023 .....	57
5.9.2.	2 <sup>nd</sup> Stakeholders meeting 06.03.2024 .....	58
5.9.3.	3 <sup>rd</sup> Stakeholders meeting 26.02.2026 .....	60
5.10.	NESTLER Advisory Board.....	61
5.10.1.	1 <sup>st</sup> Advisory Board meeting 05.03.2025 .....	61
5.10.2.	2 <sup>nd</sup> Advisory Board meeting 26.02.2026 .....	62
5.11.	Publications in Open Access Journals .....	63
5.12.	Conference papers.....	66
5.13.	Datasets .....	67
5.13.1.	Wild Animal Recognition Video Dataset .....	67
5.13.2.	Poultry Video Dataset .....	67
5.14.	Report release .....	68
5.15.	Public Deliverables.....	68
5.16.	White Papers and Policy-Oriented Outputs .....	69
5.16.1.	White Paper on Policy Recommendations for Sustainable and Digital Agri-Food Systems .....	69
5.16.2.	White Paper on the Consolidation of Scientific and Technical Innovation of NESTLER .....	69
<b>6.</b>	<b>Communities Liaison .....</b>	<b>70</b>
6.1.	Memorandum of Understanding (MoU) between NESTLER and the INCITIS-FOOD Project .....	70
6.2.	Cross-collaboration among EU-funded initiatives.....	70
6.2.1.	1st One-Health Agri-Tech Workshop.....	70
6.3.	AgriDataValue.....	71
6.4.	WATSON .....	71

6.5. GEORGIA.....	71
6.6. CEADs.....	72
<b>7. Contribution to standards.....</b>	<b>73</b>
<b>8. Conclusion.....</b>	<b>74</b>
<b>9. ANNEX 1: NESTLER Workshop.....</b>	<b>75</b>
<b>10. ANNEX 2: NESTLER - First One Health Agri-Tech Workshop.....</b>	<b>78</b>

## List of Figures

Figure 1: NESTLER Website Homepage .....	17
Figure 2: NESTLER LinkedIn page.....	21
Figure 3: NESTLER Twitter profile.....	22
Figure 4 - The “Media” page on the NESTLER website.....	22
Figure 5: NESTLER website visitors.....	23
Figure 6: NESTLER global user distribution.....	24
Figure 7: Impressions on the NESTLER LinkedIn page (March 2023-March 2024). ....	24
Figure 8: Impressions on the NESTLER LinkedIn page (April 2025-March 2026). ....	24
Figure 9: Roll-up banners created by SYN, and AGRI. ....	25
Figure 10: Roll-up banners created by RAB.....	25
Figure 11: Roll-up banners created by RAB.....	26
Figure 12: NESTLER Project Brochure #1 (Outside).....	30
Figure 13: NESTLER Project Brochure #1 (Inside).....	30
Figure 14: NESTLER Project Brochure #2 (Outside).....	31
Figure 15: NESTLER Project Brochure #2 (Inside).....	31
Figure 16: NESTLER Project Leaflet 1 and 2 (original size: A5) .....	32
Figure 17: NESTLER Leaflet 3 and 4 (original size: A5) .....	32
Figure 18: Presentation of the SynField technology by Synelixis at the 29th International Fair for Agricultural Machinery, Equipment and Supplies Agrotica 2022, .....	33
Figure 19: Presentation of the NESTLER project at the 2nd Phytopathology Conference: Protection of cultivated and forest plants, food security and agricultural entrepreneurship, Yaounde, Cameroon .....	34
Figure 20: Participation of SYN in the 30th International Fair for Agricultural Machinery, Equipment and Supplies Agrotica 2024 .....	35
Figure 21: Photo from Africa Fertilizer & Soil Health Summit, Kenya, including Ms. Carla Montesi (Director, EC Directorate-General for International Partnerships (DG EU-INTPA) (in blue).....	36
Figure 22: Participants at the side-event organized during the Africa Fertilizer & Soil Health Summit, Nairobi, Kenya .....	36
Figure 23: Exhibition booth of the insect frass fertilizer products displayed by ICIPE & SMEs during the 3-days side-event organized during the Africa Fertilizer & Soil Health Summit, Nairobi, Kenya. ....	36
Figure 24: Dr. Th. Zahariadis (SYN, project coordinator), G. Athanasiou (SYN) and Prof. I. Danwajeh (UCL) visiting ICIPE on 22-23 February 2024 .....	37
Figure 25: NESTLER consortium (SYN, ICIPE) at BSF exhibition in Nairobi, Kenya .....	38
Figure 26: Dr. Uwituze (RAB, Deputy Director General/ Animal) and RAB team with NESTLER coordinator Dr. Th. Zahariadis and G. Athanasiou (SYN) in Kigali, Rwanda.....	38
Figure 27: NESTLER consortium (RAB and SYN) visiting a chicken and BSF farm in Kigali, Rwanda .....	39

Figure 28: Participation of SYN in the 1st Automation & Robotics Exhibition in Greece.....	39
Figure 29: NESTLER presented at the 1st CLMS General Assembly in Antwerp, Belgium. ....	40
Figure 30: NESTLER presented at the 1st CLMS General Assembly .....	40
Figure 31: Participation of SYN in the Zootechnia 2025.....	41
Figure 32: Participation of SYN in Agro Vision 2025.....	42
Figure 33: Participation of SYN in the 8 <sup>th</sup> Verde.Tec Exhibition .....	43
Figure 34: Participation of SYN in the 8 <sup>th</sup> Verde.Tec Exhibition .....	43
Figure 35: Participation of SYN in the 31 <sup>st</sup> International Fair for Agricultural Machinery, Equipment and Supplies Agrotica 2026 .....	44
Figure 36: Participation of SYN in the 31st International Fair for Agricultural Machinery, Equipment and Supplies Agrotica 2026 .....	44
Figure 37: NESTLER featured at Agrenda – Major Greek Agricultural newspaper.....	45
Figure 38: Group Photos of young entrepreneurs that have started their business in insect farming or using BSFL feeders based on NESTLER capacity building activities.....	46
Figure 39: NESTLER consortium (ICIPE, SYN and UCL) visiting a commercial chicken farm in Nairobi, already exploiting insect feeding for chickens .....	47
Figure 40: NESTLER consortium (ICIPE, SYN and UCL) visiting a commercial BSF farm in Nairobi, Kenya (the larval, pre-pupal and pupal BSF section).....	47
Figure 41: Group Photos of farmers training in Rwanda.....	48
Figure 42: Group Photos of farmers training .....	49
Figure 43: NESTLER presentation at the Insecta 2023 International Conference in Magdeburg, Germany. ....	50
Figure 44: Participants group photo in the Insects for the Green Economy Conference. ....	51
Figure 45: NESTLER plenary in parallel to the IEEE AFRICON Conference in Nairobi, Kenya .....	52
Figure 46: NESTLER partner EBOS attended the 2nd IEEE Conference on Agrifood Electronics .....	53
Figure 47: 1 <sup>st</sup> NESTLER Technical Workshop (hybrid).....	53
Figure 48: Agenda of the NESTLER Workshop.....	54
Figure 49: The 1st One-Health Agri-Tech Workshop in Athens, Greece .....	55
Figure 50: Dissemination material at the 1st One-Health Agri-Tech Workshop in Athens, Greece .....	55
Figure 51: The 1st One-Health Agri-Tech Workshop.....	56
Figure 52: 1st Stakeholders' meeting, 13.03.2023 .....	57
Figure 53: Agenda of the 1st NESTLER Stakeholders' Meeting .....	58
Figure 54: 2 <sup>nd</sup> Stakeholders Meeting, 06.03.2024 .....	59
Figure 55: Agenda of the 2nd NESTLER Stakeholders' meeting .....	59
Figure 56: 3 <sup>rd</sup> Stakeholders Meeting, 26.02.2026 .....	60
Figure 57: The Agenda of the 3rd NESTLER Stakeholders' meeting, 26.02.2026.....	60
Figure 58: The agenda of the 1st Advisory Board Meeting of NESTLER.....	62

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Figure 59: The agenda of the 2<sup>nd</sup> Advisory Board Meeting of NESTLER .....62

## List of Tables

Table 1: Target audiences and Purpose of the Engagement.....15  
Table 2: NESTLER news posts and blog posts entries.....18  
Table 3: Visitors and followers of each NESTLER social channel .....23  
Table 4: News and Blog Posts on each NESTLER social channel.....23

## Definitions, Acronyms and Abbreviations

ACR	Acronym
CA	Consortium Agreement
CISAR	Climate Insurance Solutions for Agricultural Risks
EC-GA	European Commission Grant Agreement
EU	European Union
DoA	Description of Action
DPO	Data Protection Officer
GIS	Geographic Information System
IM	Innovation Manager
PM	Project Manager
PMT	Project Management Team
TL	Task Leader
ToC	Table of Content
TM	Technical Manager
WP	Work Package
WPL	Work Package Lead
CMT	Communication Management Team

## Executive Summary

The present document, D6.4: NESTLER dissemination and communication activities, presents a comprehensive overview of the dissemination and communication activities implemented throughout the lifecycle of the NESTLER project (M1–M42). Funded under the Horizon Europe Research and Innovation Programme (Grant Agreement No. 101060762), NESTLER was designed to strengthen the One Health approach through the development of an integrated digital platform combining satellite earth observation, Unmanned Aerial Vehicle (UAV) video streams, IoT-based environmental monitoring, artificial intelligence, and GIS-based risk modelling tools.

The dissemination and communication strategy followed a phased approach—Reach-Out, Engagement, Applications & Demonstration, and Adoption—to ensure continuous visibility, stakeholder engagement, and uptake of project results across Europe and Africa. Activities targeted a wide range of stakeholders, including researchers, policymakers, farmers, industry actors, innovation ecosystems, and the general public.

Key achievements include:

- Active scientific dissemination through peer-reviewed publications and international conferences
- Organisation of workshops, demonstrations, and EU–Africa engagement events
- Participation in major industrial and agricultural exhibitions
- Stakeholder engagement forums and cross-project collaborations
- Continuous communication through the official website, LinkedIn, X (Twitter), newsletters, and press releases
- Compliance with Horizon Europe communication and EU visibility requirements.

Overall, the project successfully strengthened EU–Africa collaboration, promoted One Health digital innovation, and enhanced awareness of sustainable and technology-driven solutions for food security and zoonotic disease prevention.

# 1. Introduction

NESTLER is a collaborative initiative between the European Union and African partner countries, aimed at fostering a sustainable One Health partnership. The project brings together interdisciplinary technological innovations to enable comprehensive monitoring of the interconnected health of animals, plants, and humans through a holistic approach. To this end, the NESTLER platform integrates advanced software interfaces capable of ingesting and processing diverse data streams, including satellite observations, video feeds from unmanned aerial vehicles (UAVs), and inputs from Internet of Things (IoT) devices deployed for environmental and animal health monitoring.

Over the past two decades, the incidence of emerging and re-emerging infectious diseases has risen significantly, particularly across Africa, where epidemics have had profound public health, economic, and environmental consequences. Between 2016 and 2018 alone, more than 260 infectious disease outbreaks and public health emergencies were recorded across the continent. Notably, over 75% of newly emerging infectious diseases are zoonotic, originating at the interface between humans, animals, and the environment. These trends underscore the critical need for integrated surveillance systems that can effectively monitor and assess risks across all dimensions of the One Health continuum. Despite advances in technology, a substantial gap remains in digital solutions capable of systematically capturing and analysing the complex interactions within this ecosystem.

## 1.1. Purpose of the Deliverable

This Deliverable *D6.4 'NESTLER Dissemination and Communication Activities'* provides all dissemination and communication actions implemented throughout the project lifecycle, in accordance with the Dissemination and Communication Plan (D6.2).

The purpose of this Deliverable is to:

- Present the dissemination and communication activities carried out by consortium partners
- Demonstrate compliance with Horizon Europe communication and EU visibility requirements
- Provide evidence of stakeholder engagement across scientific, industrial, policy, and community levels
- Support sustainability and post-project uptake of NESTLER results.

The Deliverable reflects activities such as:

- Participation in conferences and scientific events
- Organisation of workshops and demonstrations
- Stakeholder engagement forums
- Industrial and innovation events
- Press releases and media outreach
- Collaboration with external projects
- Liaison with standardisation organisation

## 1.2. Reporting period

This report covers dissemination and communication activities implemented during the entire project duration, from Month 1 (M1) to Month 42 (M42). Activities reported herein correspond to the four dissemination phases defined in the Dissemination and Communication Plan.

**Phase 1: Reach-Out (M1–M18):** Focused on establishing project visibility, launching communication channels, and building awareness among target audiences.

**Phase 2: Engagement (M12–M24) :** Concentrated on increasing stakeholder interaction, organising co-located events, and strengthening scientific dissemination.

**Phase 3: Applications and Demonstration (M18–M33):** Emphasised demonstration activities, intercontinental EU–Africa engagement, and validation of technological outputs.

**Phase 4: Adoption (M30–M36):** Focused on policy engagement, business model identification, scientific publications, and long-term sustainability of project outcomes.

**Phase 5: Scaling and Legacy (M36–M42):** Focused on scaling validated solutions, strengthening uptake by end-users and institutions, consolidating policy integration, and ensuring long-term legacy and replication of project results. This phase emphasises knowledge transfer, institutionalisation of best practices, and expansion of partnerships to sustain impact beyond the project lifecycle.

## 1.3. Structure of the document

The structure of this document is as follows:

- 1. Introduction:** Presents project context, objectives of the deliverable, reporting period, dissemination phases, and document structure.
- 2. Dissemination & Communication Strategy Overview:** Describes the overall strategy, objectives, target audiences, and communication channels (digital, scientific, events, media) used to maximise project visibility and impact.
- 3. Dissemination & Communication Material:** Details all communication tools and materials, including website, social media, newsletters, videos, brochures, and analytics performance.
- 4. Communication Activities:** Covers outreach to the general public and stakeholders through exhibitions, fairs, media, training activities, and capacity-building initiatives.
- 5. Dissemination Activities:** Focuses on scientific and technical dissemination, including conferences, workshops, stakeholder meetings, publications, datasets, and policy outputs.
- 6. Communities Liaison:** Describes collaboration with other EU-funded projects, partnerships, and cross-project knowledge exchange activities.
- 7. Contribution to Standards:** Highlights involvement in standardisation activities and contributions to policy and regulatory frameworks.
- 8. Impact Assessment:** Evaluates dissemination performance against KPIs and compliance with EU visibility and communication requirements.
- 9. Conclusion:** Summarises the effectiveness and impact of dissemination and communication efforts and their contribution to project sustainability.

## 2. Dissemination & Communication Strategy

The dissemination and communication strategy of NESTLER was designed to ensure maximum visibility, stakeholder engagement, and uptake of project results across Europe and Africa. The strategy followed a phased approach (Reach-Out, Engagement, Demonstration, and Adoption) and was implemented throughout the project lifecycle (M1–M42).

The strategy aimed to:

- Increase awareness of the NESTLER One Health digital platform
- Promote scientific and technical results
- Facilitate stakeholder interaction, feedback, and advisory
- Support policy dialogue and industry uptake
- Ensure compliance with Horizon Europe communication and visibility requirements.

The Communication Management Team (CMT) within WP6, composed of representatives from all consortium partners, coordinated dissemination efforts and ensured consistency of messaging across all communication channels.

### 2.1. Dissemination Objectives

The main dissemination objectives of NESTLER were:

- **Enhance Project Visibility:** Increase awareness of NESTLER activities, objectives, and outcomes among scientific, policy, industrial, and public audiences.
- **Promote Scientific Excellence:** Disseminate research findings through peer-reviewed publications, conference presentations, and technical reports.
- **Engage Stakeholders Across the One Health Ecosystem:** Foster interaction between researchers, farmers, healthcare professionals, policymakers, industry actors, and technology providers.
- **Support Uptake and Adoption of Results:** Promote the NESTLER digital platform, AI-based tools, datasets, and methodologies to encourage replication and scalability.
- **Strengthen EU–Africa Collaboration:** Facilitate knowledge exchange, capacity building, and intercontinental cooperation within the One Health framework.
- **Ensure Compliance with EU Visibility Requirements:** Guarantee proper acknowledgment of EU funding and consistent use of the EU emblem in all dissemination materials.

## 2.2. Target Audiences

NESTLER’s dissemination and communication activities targeted a diverse set of stakeholders to ensure cross-sectoral engagement and impact. This multi-level targeting ensured that both technical and non-technical audiences were effectively reached.

**Table 1: Target audiences and Purpose of the Engagement**

Target Group	Purpose of the Engagement
Researchers & Academic Institutions	Share scientific findings, AI methodologies, datasets, and technical innovations foster collaboration and citations
Policymakers & Regulatory Authorities	Inform policy dialogue on One Health, food safety, zoonotic risk monitoring, and digital agriculture solutions
Farmers & Agricultural Practitioners	Promote practical application of digital tools, sustainable practices, and pilot demonstrations
Agri-tech & IoT Industry Actors	Encourage uptake, scalability, and potential commercialisation of technological solutions
Healthcare & One Health Professionals	Raise awareness of integrated human–animal–environment monitoring approaches
Investors & Innovation Ecosystems	Present innovation potential and business model opportunities
General Public	Increase awareness of One Health principles and food system resilience challenges
EU & African Research Networks	Strengthen transcontinental collaboration and knowledge exchange

## 2.3. Communication Channels Used

To ensure broad and effective outreach, NESTLER employed a combination of digital, scientific, and stakeholder-oriented communication channels.

### 2.3.1. Digital Channels

- **Official Project Website** (<https://nestler-project.eu/>): Central repository for public deliverables, news, events, publications, datasets, and project updates.
- **LinkedIn Showcase Page** (<https://www.linkedin.com/showcase/nestler-project/posts/?feedView=all>): Professional engagement with researchers, industry, and policy stakeholders.
- **X (formerly Twitter)** (<https://x.com/NestlerProject>): Wider public outreach and real-time event dissemination.
- **Newsletters and blog posts**: Periodic updates to subscribers and stakeholders.
- **YouTube channel**: Engaging the wider public through video content and project updates.

### 2.3.2. Scientific Dissemination

- Peer-reviewed journal publications.
- Conference papers and oral presentations.
- Poster sessions at international scientific events.
- Practice abstracts and technical reports.

### 2.3.3. Events & Stakeholder Engagement

- Workshops and training sessions.
- Demonstration events (EU–Africa intercontinental engagement).
- Stakeholder group and advisory meetings.
- Participation in international exhibitions and agri-tech expos.
- Industrial and innovation networking events.

### 2.3.4. Media & Outreach

- Press releases published on the project website.
- Event coverage posts and dissemination highlights.
- Collaboration announcements with external projects and initiatives.

All communication activities followed a consistent visual identity and adhered to Horizon Europe requirements regarding EU funding acknowledgment and emblem display.

## 3. Dissemination & Communication Material

### 3.1. Online communication

The online communication includes the project website and the social media, namely the LinkedIn, the X (formerly twitter), and YouTube.

#### 3.1.1. NESTLER website

The NESTLER website (<https://www.nestler-project.eu>), which was launched in M2, is the central node for all communication and dissemination activities of the project. The website is constantly being updated with new content including publications, public deliverables, news posts, videos and dissemination material.



**Figure 1: NESTLER Website Homepage**

The NESTLER website features content from various dissemination and communication activities designed to engage a broader audience. During the project's first 18 months, 26 news and blog entries were published. By Month 42 (M42), this number had grown to a total of 53 entries.

The news posts cover a variety of topics, including but not limited to:

- News about the project's lifecycle, e.g. general assemblies, advisory board meetings
- Participation in events, conferences, fairs, etc.
- Scientific articles informing the readers of the latest project developments
- News concerning installations of IoT sensors and monitoring devices in the project's pilot sites

The complete lists of news posts appearing on the project's website is recorded in the following table.

**Table 2: NESTLER news posts and blog posts entries**

#	Post Title	Link
<b>NESTLER news post / Blog post entries: M01-M18</b>		
1	NESTLER Kick off Meeting	<a href="https://nestler-project.eu/index.php/2022/10/13/nestler-kick-of-meeting/">https://nestler-project.eu/index.php/2022/10/13/nestler-kick-of-meeting/</a>
2	Agrotica 2022	<a href="https://nestler-project.eu/index.php/2022/10/26/agrotica-2022/">https://nestler-project.eu/index.php/2022/10/26/agrotica-2022/</a>
3	The 2nd plenary meeting of NESTLER	<a href="https://nestler-project.eu/index.php/2023/02/17/the-2nd-plenary-meeting-of-nestler/">https://nestler-project.eu/index.php/2023/02/17/the-2nd-plenary-meeting-of-nestler/</a>
4	The 1st Stakeholders Group meeting of NESTLER	<a href="https://nestler-project.eu/index.php/2023/03/14/1st-stakeholders-group-meeting-of-nestler/">https://nestler-project.eu/index.php/2023/03/14/1st-stakeholders-group-meeting-of-nestler/</a>
5	Ethiopian Food System Resilience Program (EFSRP)	<a href="https://nestler-project.eu/index.php/2023/04/15/ethiopian-food-system-resilience-program-efsrp/">https://nestler-project.eu/index.php/2023/04/15/ethiopian-food-system-resilience-program-efsrp/</a>
6	CEO participated in the Climate Insurance Solutions for Agricultural Risks (CISAR) Symposium	<a href="https://nestler-project.eu/index.php/2023/05/10/ceo-participated-in-the-climate-insurance-solutions-for-agricultural-risks-cisar-symposium/">https://nestler-project.eu/index.php/2023/05/10/ceo-participated-in-the-climate-insurance-solutions-for-agricultural-risks-cisar-symposium/</a>
7	SynField installation in Nigeria	<a href="https://nestler-project.eu/index.php/2023/07/20/synfield-installation-in-nigeria/">https://nestler-project.eu/index.php/2023/07/20/synfield-installation-in-nigeria/</a>
8	NESTLER presented at the INSECTA 2023 International Conference	<a href="https://nestler-project.eu/index.php/2023/09/15/nestler-presented-at-the-insecta-2023-international-conference/">https://nestler-project.eu/index.php/2023/09/15/nestler-presented-at-the-insecta-2023-international-conference/</a>
9	The 3rd plenary meeting of NESTLER	<a href="https://nestler-project.eu/index.php/2023/09/26/the-3rd-plenary-meeting-of-nestler/">https://nestler-project.eu/index.php/2023/09/26/the-3rd-plenary-meeting-of-nestler/</a>
10	NESTLER Workshop	<a href="https://nestler-project.eu/index.php/2023/09/27/nestler-workshop/">https://nestler-project.eu/index.php/2023/09/27/nestler-workshop/</a>
11	NESTLER PILOT IN KENYA	<a href="https://nestler-project.eu/index.php/2023/09/29/nestler-pilot-in-kenya/">https://nestler-project.eu/index.php/2023/09/29/nestler-pilot-in-kenya/</a>
12	New SynField installation in Ibadan	<a href="https://nestler-project.eu/index.php/2023/11/01/new-synfield-installation-in-ibadan/">https://nestler-project.eu/index.php/2023/11/01/new-synfield-installation-in-ibadan/</a>
13	The NESTLER project was presented at the 2nd Phytopathology Conference, in Cameroon	<a href="https://nestler-project.eu/index.php/2023/11/14/the-nestler-project-presented-at-the-2nd-phytopathology-conference-in-cameroon/">https://nestler-project.eu/index.php/2023/11/14/the-nestler-project-presented-at-the-2nd-phytopathology-conference-in-cameroon/</a>
14	RiniSoft has started monitoring chickens at its newly opened biolab in Sliven	<a href="https://nestler-project.eu/index.php/2023/11/14/rinisoft-has-started-monitoring-chickens-at-its-newly-opened-biolab-in-sliven/">https://nestler-project.eu/index.php/2023/11/14/rinisoft-has-started-monitoring-chickens-at-its-newly-opened-biolab-in-sliven/</a>
15	NESTLER Project Update: Integration meeting	<a href="https://nestler-project.eu/index.php/2023/12/08/nestler-project-update-integration-meeting/">https://nestler-project.eu/index.php/2023/12/08/nestler-project-update-integration-meeting/</a>
16	NESTLER was presented at the International Exhibition Agrotica 2024	<a href="https://nestler-project.eu/index.php/2024/02/06/nestler-was-presented-at-the-international-exhibition-agrotica-2024/">https://nestler-project.eu/index.php/2024/02/06/nestler-was-presented-at-the-international-exhibition-agrotica-2024/</a>

17	Workshop on Exploration of Antimicrobial Compounds from Edible Insects and Chicken parts for Applications in Food and Industry.	<a href="https://nestler-project.eu/index.php/2024/03/01/workshop-on-exploration-of-antimicrobial-compounds-from-edible-insects-and-chicken-parts-for-applications-in-food-and-industry/">https://nestler-project.eu/index.php/2024/03/01/workshop-on-exploration-of-antimicrobial-compounds-from-edible-insects-and-chicken-parts-for-applications-in-food-and-industry/</a>
18	SynField and SynWater installed in Ethiopia	<a href="https://nestler-project.eu/index.php/2024/03/07/synfield-and-synwater-installed-in-ethiopia/">https://nestler-project.eu/index.php/2024/03/07/synfield-and-synwater-installed-in-ethiopia/</a>
19	The 2nd Stakeholders group meeting of NESTLER	<a href="https://nestler-project.eu/index.php/2024/03/07/the-2nd-stakeholders-group-meeting-of-nestler/">https://nestler-project.eu/index.php/2024/03/07/the-2nd-stakeholders-group-meeting-of-nestler/</a>
20	SynField installed in Uganda	<a href="https://nestler-project.eu/index.php/2024/03/07/iot-equipment-installed-in-uganda/">https://nestler-project.eu/index.php/2024/03/07/iot-equipment-installed-in-uganda/</a>
21	SynField smart agriculture system installed in Kenya	<a href="https://nestler-project.eu/index.php/2024/03/07/iot-equipment-installed-in-kenya/">https://nestler-project.eu/index.php/2024/03/07/iot-equipment-installed-in-kenya/</a>
22	SynField and SynAir installed in Rwanda	<a href="https://nestler-project.eu/index.php/2024/03/07/iot-equipment-installed-in-rwanda/">https://nestler-project.eu/index.php/2024/03/07/iot-equipment-installed-in-rwanda/</a>
23	SynField smart agriculture systems installed in Nigeria	<a href="https://nestler-project.eu/index.php/2024/03/07/iot-equipment-installed-in-nigeria/">https://nestler-project.eu/index.php/2024/03/07/iot-equipment-installed-in-nigeria/</a>
24	SynField and SynWater installation in Nkungu, Rwanda	<a href="https://nestler-project.eu/index.php/2024/03/12/synfield-and-synwater-installation-in-nkungu-rwanda/">https://nestler-project.eu/index.php/2024/03/12/synfield-and-synwater-installation-in-nkungu-rwanda/</a>
25	The project coordinator visited the pilots in Rwanda	<a href="https://nestler-project.eu/index.php/2024/03/12/the-project-coordinator-visited-the-pilots-in-rwanda/">https://nestler-project.eu/index.php/2024/03/12/the-project-coordinator-visited-the-pilots-in-rwanda/</a>
26	The project coordinator visited the pilots in Kenya	<a href="https://nestler-project.eu/index.php/2024/03/12/the-project-coordinator-visited-the-pilots-in-kenya/">https://nestler-project.eu/index.php/2024/03/12/the-project-coordinator-visited-the-pilots-in-kenya/</a>
<b>NESTLER news post / Blog post entries: M19-M42</b>		
27	NESTLER presented at the 1st Automation & Robotics expo in Athens, Greece	<a href="https://nestler-project.eu/index.php/2024/04/15/nestler-presented-at-the-1st-automation-robotics-expo-in-athens-greece/">https://nestler-project.eu/index.php/2024/04/15/nestler-presented-at-the-1st-automation-robotics-expo-in-athens-greece/</a>
28	First NESTLER Newsletter	<a href="https://nestler-project.eu/index.php/2024/04/16/first-nestler-newsletter/">https://nestler-project.eu/index.php/2024/04/16/first-nestler-newsletter/</a>
29	Implementation of the pilot based on smart agriculture of tomato using organic fertilizers and IoT devices as part of the Nestler Project (Part 1)	<a href="https://nestler-project.eu/index.php/2024/04/19/implementation-of-the-pilot-based-on-smart-agriculture-of-tomato-using-organic-fertilizers-and-iot-devices-as-part-of-the-nestler-project-part-1/">https://nestler-project.eu/index.php/2024/04/19/implementation-of-the-pilot-based-on-smart-agriculture-of-tomato-using-organic-fertilizers-and-iot-devices-as-part-of-the-nestler-project-part-1/</a>
30	NESTLER presented at the Africa Fertilizer and Soil Health (AFSH) summit 2024	<a href="https://nestler-project.eu/index.php/2024/05/14/nestler-presented-at-the-africa-fertilizer-and-soil-health-afsh-summit-2024/">https://nestler-project.eu/index.php/2024/05/14/nestler-presented-at-the-africa-fertilizer-and-soil-health-afsh-summit-2024/</a>
31	NESTLER 4th plenary meeting in London	<a href="https://nestler-project.eu/index.php/2024/05/16/nestler-4th-plenary-meeting-in-london/">https://nestler-project.eu/index.php/2024/05/16/nestler-4th-plenary-meeting-in-london/</a>
32	NESTLER was showcased in Copernicus Land Monitoring Service (CLMS) General Assembly	<a href="https://nestler-project.eu/index.php/2024/06/14/nestler-was-showcased-in-copernicus-land-monitoring-service-clms-general-assembly/">https://nestler-project.eu/index.php/2024/06/14/nestler-was-showcased-in-copernicus-land-monitoring-service-clms-general-assembly/</a>

33	Farmers' Training on Black Soldier Fly (BSF) Larvae Farming	<a href="https://nestler-project.eu/index.php/2024/08/23/farmers-training-on-black-soldier-fly-bsf-larvae-farming/">https://nestler-project.eu/index.php/2024/08/23/farmers-training-on-black-soldier-fly-bsf-larvae-farming/</a>
34	NESTLER Presents Two Papers at the 2nd IEEE Conference on Agrifood Electronics (CAFÉ 2024)	<a href="https://nestler-project.eu/index.php/2024/10/19/nestler-presents-two-papers-at-the-2nd-ieee-conference-on-agrifood-electronics-cafe-2024/">https://nestler-project.eu/index.php/2024/10/19/nestler-presents-two-papers-at-the-2nd-ieee-conference-on-agrifood-electronics-cafe-2024/</a>
35	Replacement of Fishmeal with Black Soldier Fly Larvae Enhances the Growth Performance of Nile Tilapia.	<a href="https://nestler-project.eu/index.php/2024/12/17/replacement-of-fishmeal-with-black-soldier-fly-larvae-enhances-the-growth-performance-of-nile-tilapia/">https://nestler-project.eu/index.php/2024/12/17/replacement-of-fishmeal-with-black-soldier-fly-larvae-enhances-the-growth-performance-of-nile-tilapia/</a>
36	Wild Animal Recognition Video Dataset Released	<a href="https://nestler-project.eu/index.php/2025/01/29/wild-animal-recognition-video-dataset-released/">https://nestler-project.eu/index.php/2025/01/29/wild-animal-recognition-video-dataset-released/</a>
37	NESTLER at Zootechnia 2025	<a href="https://nestler-project.eu/index.php/2025/02/03/nestler-at-zootechnia-2025/">https://nestler-project.eu/index.php/2025/02/03/nestler-at-zootechnia-2025/</a>
38	First One-Health Agri-Tech Workshop: Exploring Smart Solutions for a Sustainable Future	<a href="https://nestler-project.eu/index.php/2025/03/04/advancing-one-health-sustainability-and-smart-agri-tech-solutions/">https://nestler-project.eu/index.php/2025/03/04/advancing-one-health-sustainability-and-smart-agri-tech-solutions/</a>
39	NESTLER 1st Advisory Board Meeting	<a href="https://nestler-project.eu/index.php/2025/03/05/nestler-1st-advisory-board-meeting/">https://nestler-project.eu/index.php/2025/03/05/nestler-1st-advisory-board-meeting/</a>
40	NESTLER 5th plenary meeting in Cyprus	<a href="https://nestler-project.eu/index.php/2025/03/27/nestler-5th-plenary-meeting-in-cyprus/">https://nestler-project.eu/index.php/2025/03/27/nestler-5th-plenary-meeting-in-cyprus/</a>
41	The 1st One-Health Agri-Tech Workshop in Athens Concludes with Great Success	<a href="https://nestler-project.eu/index.php/2025/05/29/the-1st-one-health-agri-tech-workshop-in-athens-concludes-with-great-success/">https://nestler-project.eu/index.php/2025/05/29/the-1st-one-health-agri-tech-workshop-in-athens-concludes-with-great-success/</a>
42	NESTLER 6th Plenary Online Meeting	<a href="https://nestler-project.eu/index.php/2025/07/10/nestler-6th-plenary-online-meeting/">https://nestler-project.eu/index.php/2025/07/10/nestler-6th-plenary-online-meeting/</a>
43	Second NESTLER Newsletter.	<a href="https://nestler-project.eu/index.php/2025/07/13/second-nestler-newsletter/">https://nestler-project.eu/index.php/2025/07/13/second-nestler-newsletter/</a>
44	NESTLER Presented at Agro Vision 2025 exhibition in Filiatra, Messinia.	<a href="https://nestler-project.eu/index.php/2025/09/11/nestler-presented-at-agro-vision-2025-exhibition-in-filiatra-messinia/">https://nestler-project.eu/index.php/2025/09/11/nestler-presented-at-agro-vision-2025-exhibition-in-filiatra-messinia/</a>
45	Early Detection of Respiratory Diseases in Domestic Chickens	<a href="https://nestler-project.eu/index.php/2025/09/16/early-detection-of-respiratory-diseases-in-domestic-chickens/">https://nestler-project.eu/index.php/2025/09/16/early-detection-of-respiratory-diseases-in-domestic-chickens/</a>
46	Bugs and Waste Turned into Safe Fertilizer	<a href="https://nestler-project.eu/index.php/2025/10/02/bugs-and-waste-turned-into-safe-fertilizer/">https://nestler-project.eu/index.php/2025/10/02/bugs-and-waste-turned-into-safe-fertilizer/</a>
47	NESTLER 7th Plenary Meeting in Sofia, Bulgaria	<a href="https://nestler-project.eu/index.php/2025/10/10/nestler-7th-plenary-meeting-in-sofia-bulgaria/">https://nestler-project.eu/index.php/2025/10/10/nestler-7th-plenary-meeting-in-sofia-bulgaria/</a>
48	NESTLER Signs MoU with the INCiTiS-FOOD Project	<a href="https://nestler-project.eu/index.php/2025/11/26/nestler-signs-mou-with-the-incitis-food-project/">https://nestler-project.eu/index.php/2025/11/26/nestler-signs-mou-with-the-incitis-food-project/</a>
49	NESTLER Remote General Assembly	<a href="https://nestler-project.eu/index.php/2025/12/19/nestler-remote-general-assembly/">https://nestler-project.eu/index.php/2025/12/19/nestler-remote-general-assembly/</a>

50	NESTLER 2nd Advisory Board and 3rd Stakeholders Group Meeting	<a href="https://nestler-project.eu/index.php/2026/03/01/nestler-2nd-advisory-board-and-3rd-stakeholders-group-meeting/">https://nestler-project.eu/index.php/2026/03/01/nestler-2nd-advisory-board-and-3rd-stakeholders-group-meeting/</a>
51	NESTLER Showcased at the 8th International Verde.Tec Exhibition 2026	<a href="https://nestler-project.eu/index.php/2026/03/03/nestler-showcased-at-the-8th-international-verde-tec-exhibition-2026/">https://nestler-project.eu/index.php/2026/03/03/nestler-showcased-at-the-8th-international-verde-tec-exhibition-2026/</a>
52	NESTLER at Agrotica 2026 in Thessaloniki	<a href="https://nestler-project.eu/index.php/2026/03/17/nestler-at-agrotica-2026/">https://nestler-project.eu/index.php/2026/03/17/nestler-at-agrotica-2026/</a>
53	Third NESTLER Newsletter.	<a href="https://nestler-project.eu/index.php/2026/04/16/third-nestler-newsletter/">https://nestler-project.eu/index.php/2026/04/16/third-nestler-newsletter/</a>

### 3.1.2. LinkedIn account

The NESTLER LinkedIn page can be found under <https://www.linkedin.com/showcase/nestler-project/> and was mainly used to share important findings, news and advancements of the project. It is open to the wider research and agri-business community and with the use of hashtags facilitates the broader communication of the project.

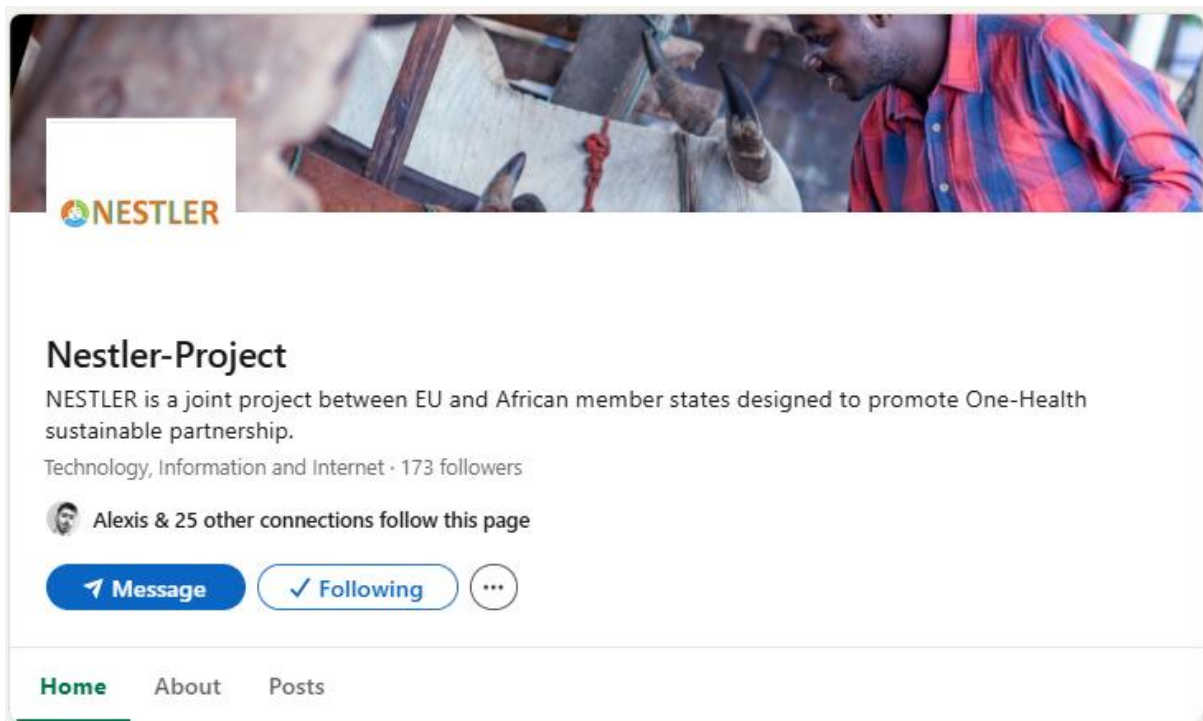


Figure 2: NESTLER LinkedIn page

### 3.1.3. Twitter account

The NESTLER Twitter profile (<https://twitter.com/NestlerProject>) was created to communicate in an efficient way the project news and insights related to the technologies and pilots.

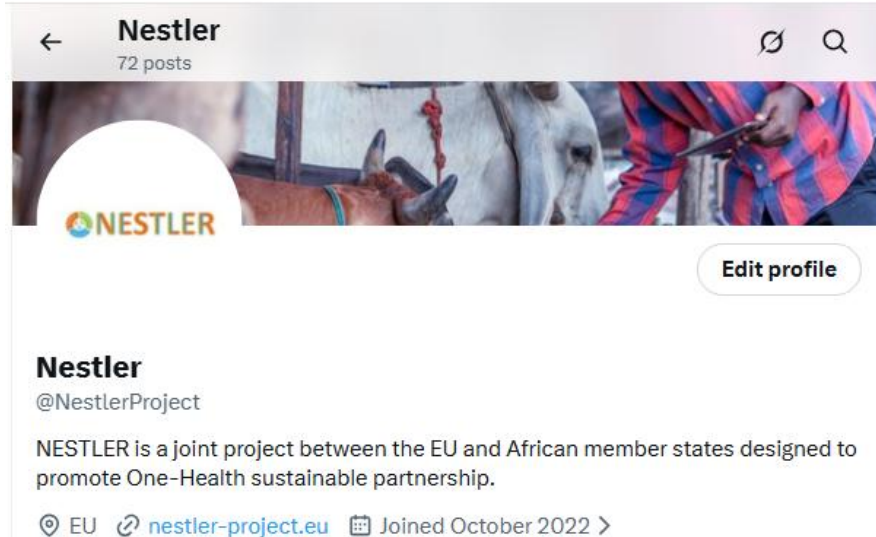


Figure 3: NESTLER Twitter profile

### 3.1.4. Video/Media material

The media section is instantiated as a NESTLER web page providing video presentations of project pilots and initial demonstrations of the project software tools. All videos have been uploaded at YouTube and available via the page <https://nestler-project.eu/index.php/media/>

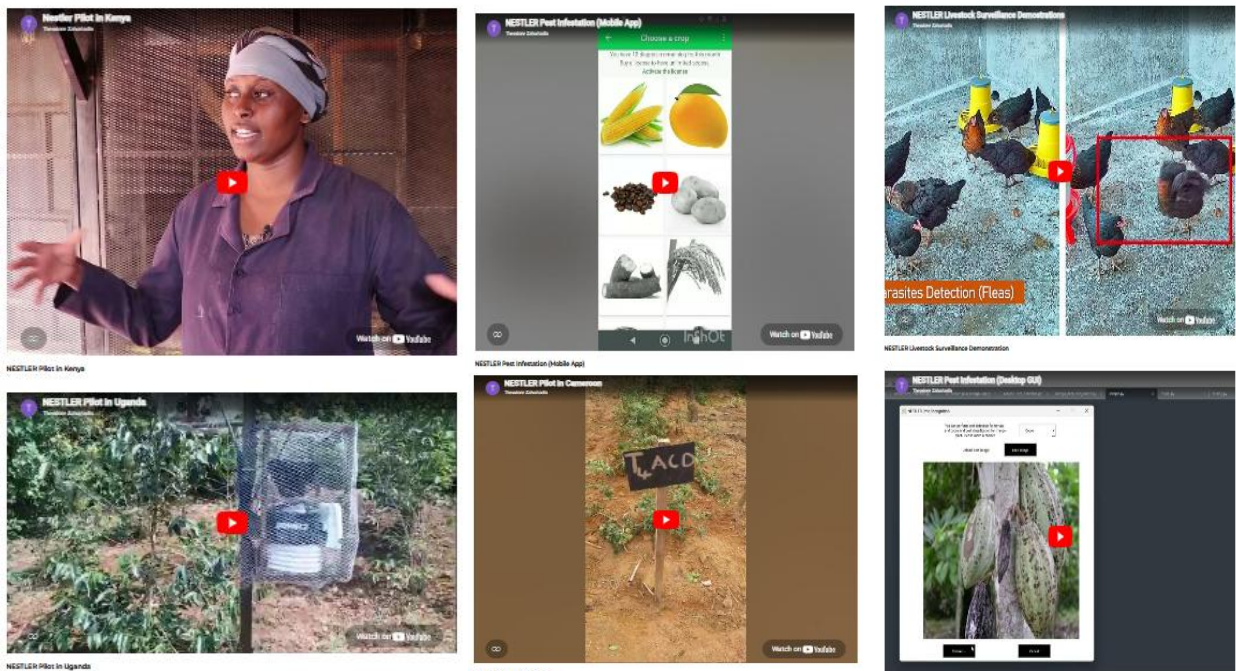


Figure 4 - The “Media” page on the NESTLER website

### 3.1.5. Website and Social Media Analytics

This section presents the analytics data for the website and associated social media channels of the NESTLER Project. Table 3 presents the visitors and the followers of NESTLER Website, LinkedIn Page and Twitter. Table 4 shows the number of news-posts and blog-posts published in NESTLER website, on NESTLER LinkedIn Page, and Twitter.

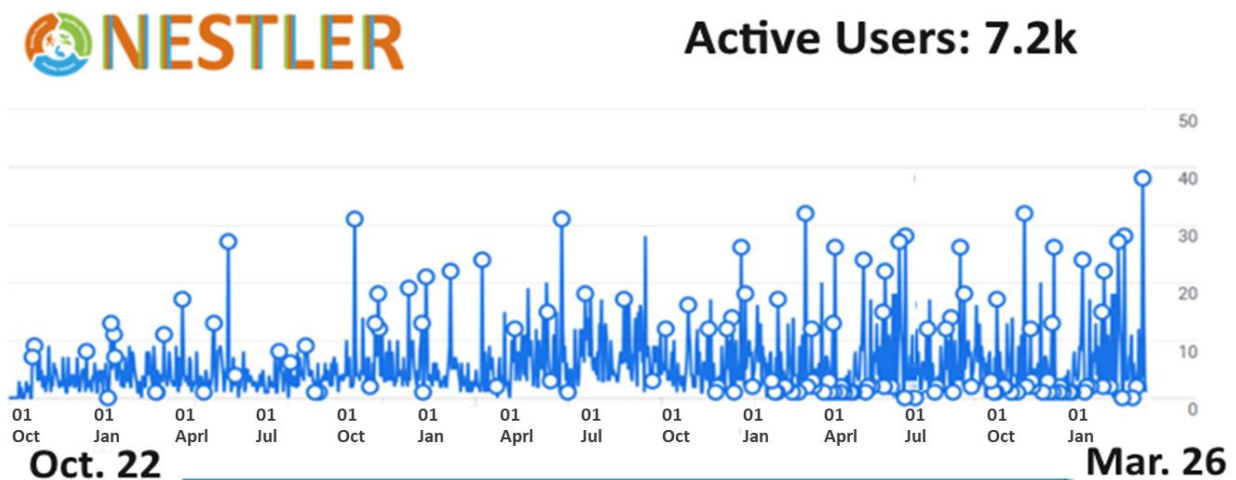
**Table 3: Visitors and followers of each NESTLER social channel**

Channel	Followers/visitors
Website ( <a href="https://nestler-project.eu/">https://nestler-project.eu/</a> )	>4,200 visitors
LinkedIn Page ( <a href="https://www.linkedin.com/showcase/nestler-project/">https://www.linkedin.com/showcase/nestler-project/</a> )	173 followers
Twitter ( <a href="https://twitter.com/NestlerProject">https://twitter.com/NestlerProject</a> )	56 followers

**Table 4: News and Blog Posts on each NESTLER social channel**

Channel	News Posts / Blog Posts
Website ( <a href="https://nestler-project.eu/">https://nestler-project.eu/</a> )	53
LinkedIn Page ( <a href="https://www.linkedin.com/showcase/nestler-project/">https://www.linkedin.com/showcase/nestler-project/</a> )	72
Twitter ( <a href="https://twitter.com/NestlerProject">https://twitter.com/NestlerProject</a> )	72

The Figure 6 illustrates the number of visitors to the NESTLER website from October 2022 until March 2026. In total, the website has received more than 7,200 visitors.



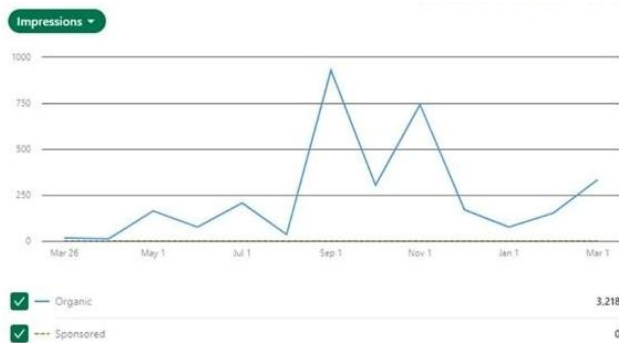
**Figure 5: NESTLER website visitors**

## NESTLER Project Website

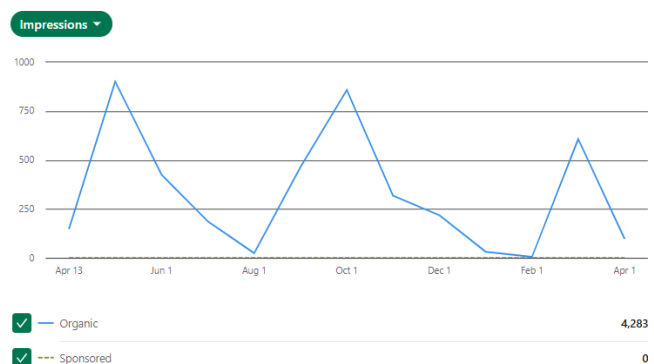


**Figure 6: NESTLER global user distribution**

Figure 6 shows a global user distribution map and a table for the NESTLER project website, highlighting the number of users from various countries. The United States leads with 3.2k users, followed by Greece with 1,1k, and other countries like the Netherlands, United Kingdom, Ireland, China and also contributing to the traffic.



**Figure 7: Impressions on the NESTLER LinkedIn page (March 2023-March 2024).**



**Figure 8: Impressions on the NESTLER LinkedIn page (April 2025-March 2026).**

Figure 7 presents the impression metrics for the NESTLER LinkedIn page from March 2023 to March 2024, while Figure 8 illustrates the impression metrics from March 25 to March 26. According to analytics gathered over the project's lifespan, NESTLER consistently achieved between 3,000 and 4,000 impressions annually.

### 3.2. Roll-Up banners – posters

For the dissemination purposes of the NESTLER project, several roll-up banners and posters have been created and utilized throughout the project's communication and dissemination activities. Project posters and banners are also available for download on the project website under the 'Dissemination Material' subsection."



Figure 9: Roll-up banners created by SYN, and AGRI.



Figure 10: Roll-up banners created by RAB.



Figure 11: Roll-up banners created by RAB

### 3.3. NESTLER Newsletters

In the context of communicating the project's developments, a series of newsletters was issued throughout the project's lifespan. These newsletters highlighted the most significant achievements and updates, while providing direct access to key articles published on the project's website. The following figures illustrate the main content and highlights of these newsletters.

### 3.3.1. Newsletter #1



#### NESTLER Newsletter – 1<sup>st</sup> Newsletter

We are pleased to present the 1<sup>st</sup> newsletter of NESTLER, offering a comprehensive overview of the project's, news, recent developments and ongoing activities. We invite all stakeholders, policy makers, researchers, farmers, and agri-tech providers, to stay informed and engaged with NESTLER's ongoing work.

NESTLER is a joint project between the EU and African member states designed to promote One-Health sustainable partnership. With the collaboration of partners across Europe and Africa, the project aims to bring together interdisciplinary technological advances to effectively monitor the well-being of animals, plants, and humans in a holistic approach.

#### News



Implementation of the pilot based on smart agriculture of tomato using organic fertilizers and IoT devices as part of the Nestler Project (Part 1)

[Read more](#)



The project coordinator visited the pilots in Rwanda

[Read more](#)



SynField and SynWater installation in Nkungu, Rwanda

[Read more](#)

The second SynField installation in Rwanda took place in



SynField smart agriculture systems installed in Nigeria

[Read more](#)



SynField smart agriculture systems installed in Nigeria

[Read more](#)

#### Events



NESTLER was showcased in Copernicus Land Monitoring Service (CLMS) General Assembly

[Read more](#)



NESTLER presented at the 1<sup>st</sup> Automation & Robotics expo in Athens, Greece

[Read more](#)

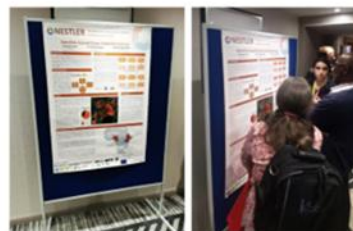


The project coordinator visited the pilots in Kenya

[Read more](#)

The project coordinator visited the NESTLER pilots in Kenya.

#### Events



NESTLER was showcased in Copernicus Land Monitoring Service (CLMS) General Assembly

[Read more](#)

The 1<sup>st</sup> CLMS General Assembly took place from 3 to 4 June 2024 in Antwerp, Belgium.



NESTLER presented at the Africa Fertilizer and Soil Health (AFSH) summit 2024

[Read more](#)

European Union [NESTLER] and Rockefeller Foundation through International Centre of Insect Physiology and Ecology (ICIPE) jointly with the Centre for International Forestry Research and World Agroforestry (CIFOR- ICRAF) organized a side-event during the Africa Fertilizer and Soil Health [AFSH] summit titled "Agroecological and Regenerative Innovations for Soil Health and Sustainable Production".

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NESTLER respects your privacy. Review our online [Privacy Policy](#)

### 3.3.2. Newsletter #2

**NESTLER**  
**NESTLER Newsletter – 2nd Newsletter**

We are pleased to present the 2nd newsletter of NESTLER, offering a comprehensive overview of the project's, news, recent developments and ongoing activities. We invite all stakeholders, policy makers, researchers, farmers, and agri-tech providers, to stay informed and engaged with NESTLER's ongoing work.

NESTLER is a joint project between the EU and African member states designed to promote One-Health sustainable partnership. With the collaboration of partners across Europe and Africa, the project aims to bring together interdisciplinary technological advances to effectively monitor the well-being of animals, plants, and humans in a holistic approach.

**News**

**NESTLER at Zootechnia 2025**

[Read more](#)

**NESTLER Presents Two Papers at the 2nd IEEE Conference on Agrifood Electronics (CAFÉ 2024)**

[Read more](#)

**Farmers' Training on Black Soldier Fly (BSF) Larvae Farming**

[Read more](#)

Farmers participated in a training program on Black Soldier Fly (BSF) larvae farming, using Standard Operating Procedures (SOPs) developed under the NESTLER Project.

**Events**

**NESTLER**  
**NESTLER Project Overview - Status**

[View the full report here](#)

**NESTLER 6th Plenary Online Meeting**

[Read more](#)

The 6th Plenary Meeting was held online on the 8th of July 2025

**1st One-Health Agri-Tech Workshop: Exploring Smart Solutions for a Sustainable Future**

**The 1st One-Health Agri-Tech Workshop in Athens Concludes with Great Success**

[Read more](#)

**NESTLER 5th plenary meeting in Cyprus**

[Read more](#)

The fifth plenary meeting hosted by EBOS, in Cyprus, on the 26th and 27th of March 2025.

**NESTLER 1st Advisory Board Meeting**

[Read more](#)

The 1st Advisory Board meeting for NESTLER was held online on the 5th of March 2025.

**Blogs**

**Wild Animal Recognition Video Dataset Released**

[Read more](#)

NESTLER has released the "Wild Animal Recognition Video Dataset", created as part of the project's activities.

**Replacement of Fishmeal with Black Soldier Fly Larvae Enhances the Growth Performance of Nile Tilapia.**

[Read more](#)

NESTLER has published a study based on an experiment conducted under the project's fish pilot in Ethiopia.

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### 3.3.3. Newsletter #3



#### NESTLER Newsletter – 3<sup>rd</sup> Newsletter

We are pleased to present the 3<sup>rd</sup> newsletter of NESTLER, offering a comprehensive overview of the project's, news, recent developments and ongoing activities. We invite all stakeholders, policy makers, researchers, farmers, and Agri-tech providers, to stay informed and engaged with NESTLER's ongoing work.

NESTLER is a joint project between the EU and African member states designed to promote One-Health sustainable partnership. With the collaboration of partners across Europe and Africa, the project aims to bring together interdisciplinary technological advances to effectively monitor the well-being of animals, plants, and humans in a holistic approach.

#### News



NESTLER at Agrotica 2025 in Thessaloniki

[Read more](#)



NESTLER Showcased at the 8th International Verde.Tec Exhibition 2026

[Read more](#)

The exhibition was held from February 27–28 and March 1, 2026.



NESTLER Signs MoU with the INCiTiS-FOOD Project

[Read more](#)

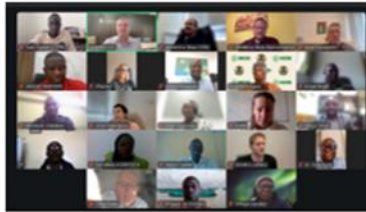


NESTLER Presented at Agro Vision 2025 exhibition in Filiatra, Messenia.

[Read more](#)

The Agro Vision exhibition was held from September 5 to 7, 2025.

#### Events



NESTLER 2nd Advisory Board and 3rd Stakeholders Group Meeting

[Read more](#)



NESTLER Remote General Assembly

[Read more](#)



NESTLER 7th Plenary Meeting in Sofia, Bulgaria

[Read more](#)

The seventh plenary meeting, hosted by RINIS in Sofia, Bulgaria, took place on October 8–9, 2025.

#### Blogs



Bugs and Waste Turned into Safe Fertilizer

[Read more](#)

We are happy to share a research paper from the NESTLER project titled: "Microbial Composition and Bioremediation in Frass Fertilizers from Insect-Based Agri-Food Waste Valorization".



Early Detection of Respiratory Diseases in Domestic Chickens

[Read more](#)

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### 3.4. NESTLER Brochures and leaflets

For the dissemination purposes of the NESTLER project, several brochures and leaflets have been created and utilized throughout the project’s communication and dissemination activities. Project brochures and leaflets (size:A5) are available for download on the project website under the 'Dissemination Material' subsection.

#### 3.4.1. NESTLER Brochures



Figure 12: NESTLER Project Brochure #1 (Outside)

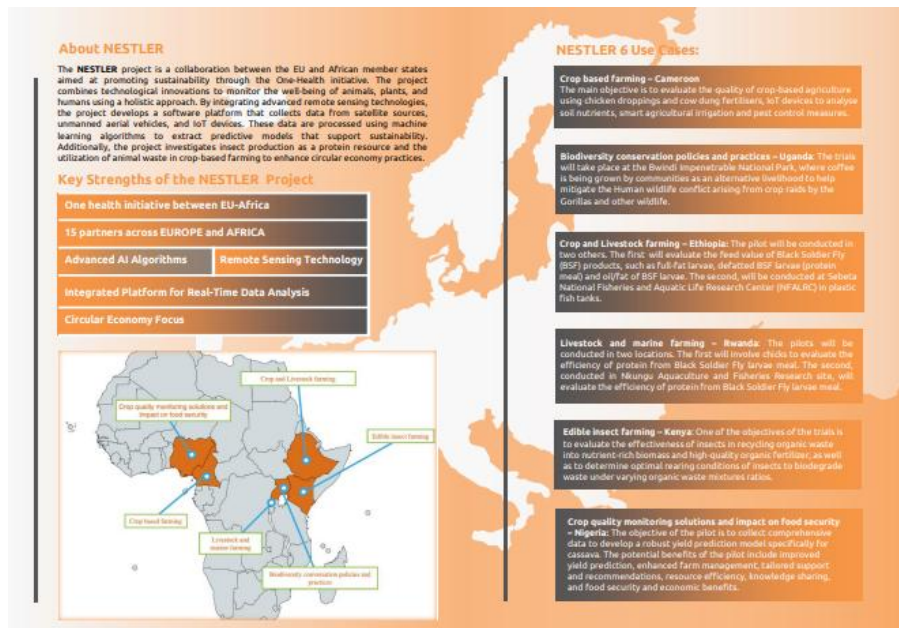


Figure 13: NESTLER Project Brochure #1 (Inside)



Figure 14: NESTLER Project Brochure #2 (Outside)



Figure 15: NESTLER Project Brochure #2 (Inside)

### 3.4.2. NESTLER Leaflets

**NESTLER**  
 oNe hEalth SusTainability partnership between  
 EU-AFRICA for food sEcuRity

## About NESTLER

The novelty of the **NESTLER project** lies in the development and integration of advanced technologies. The **NESTLER platform** develops software interfaces for ingesting satellite data sources along with video streams captured from unmanned aerial vehicles and other IoT devices installed for monitoring the environmental and animal well-being.

**VISION**

- IoT sensors
- Precision farming
- AI/ML Algorithms
- GIS Systems
- Feed Industry

The **large-volume of data** ingested into the platform is subjected to additional processing for the extraction of intuitive insights with the assistance of **ML and AI algorithms**. **Remote sensing technologies** and **GIS systems** are developed to conduct environmental surveillance on large-scale areas. The extracted insights are translated into predictive models affecting **One-Health sustainability** program.

**Consortium Partners:**  
 SYNELIXIS, RinISOFT, ADAPTIT, eBOS, ITCI, Ioh, Z, P, icipe, IITA, E.I.A.R., A, mana

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**NESTLER**  
 oNe hEalth SusTainability partnership between  
 EU-AFRICA for food sEcuRity

NESTLER is a joint project between the EU and African member states designed to promote **One-Health** sustainable partnership.

- Greater biodiversity in the ecosystem and sustainability of natural resources
- Reduce disease outbreaks in humans and animals
- Reduce socioeconomic inequalities
- Improve food security
- Improve global health security

Animal health	Human health	Environmental health
Promote improved farming practices	Manage zoonosis	Reduce deforestation and promote conservation
Regulate use of wildlife	Reduce human conflict	Limit environmental pollution
Regulate antimicrobial use and prescription	Regulate antimicrobial use and prescription	Improve housing
Regulate food supply chains and processing	Address socioeconomic inequalities	Improve waste management
Expand research into emerging diseases	Expand research into emerging diseases	Expand research into climate change

**Consortium Partners:**  
 SYNELIXIS, RinISOFT, ADAPTIT, eBOS, ITCI, Ioh, Z, P, icipe, IITA, E.I.A.R., A, mana

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Figure 16: NESTLER Project Leaflet 1 and 2 (original size: A5)

**NESTLER**  
 oNe hEalth SusTainability partnership between  
 EU-AFRICA for food sEcuRity

NESTLER is a joint project between the EU and African member states designed to promote **One-Health** sustainable partnership.

**Smart farming sensors:**

- IoT sensors monitor environmental parameters
- Safe wearable devices among livestock observe the well-being of animals
- Hardware devices measure crop quality

**Remote sensing technologies:**

- Detection and mapping of predictive epidemiological outbreaks
- Preventing pest infestation in crop cultivation
- Ingesting satellite data sources along with data streams captured from UAV and other IoT devices

**Crop quality assessment and pest control management:**

- Advanced AI models in complex heterogeneous data for yield quality estimation and livestock disease detection
- Analysis for food security against pest infestation outbreaks
- Risk assessment methodologies that adversely affect the produce quality
- Predictive analytics on forecasting environmental, weather and climate conditions

**Consortium Partners:**  
 SYNELIXIS, RinISOFT, ADAPTIT, eBOS, ITCI, Ioh, Z, P, icipe, IITA, E.I.A.R., A, mana

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**NESTLER**  
 oNe hEalth SusTainability partnership between  
 EU-AFRICA for food sEcuRity

NESTLER project innovation is aimed to deliver a technological intervention to support policy framework development between EU and Africa member states. The policy recommendations identified within the project will lead to the realisation of **One-Health** sustainability partnership.

**NESTLER technological building block for policy framework intervention**

The diagram illustrates the flow from 'Smart sensing capabilities for monitoring crop growth' and 'Climate, weather, GIS data sources' through 'NESTLER intelligence' and 'EU-Africa multi-representative farming One-Health Policy stakeholders' to 'Smart farming equipments' and 'Insect, Fungal, Feral'. The final output is the 'EU-Africa One-Health sustainability Policy framework'.

**Consortium Partners:**  
 SYNELIXIS, RinISOFT, ADAPTIT, eBOS, ITCI, Ioh, Z, P, icipe, IITA, E.I.A.R., A, mana

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Figure 17: NESTLER Leaflet 3 and 4 (original size: A5)

## 4. Communication Activities

Communication Activities involve promoting the project, the project results and its activities to a broader audience, including the general public. The aim is to raise awareness about the project, its goals, and its potential impact on society. As target audience, we define the general public, the media, educational institutions, non-specialist stakeholders. Tools and Channels for communication are defined a press releases, social media, websites, newsletters, public events, infographics, videos, and other engaging formats<sup>1, 2</sup>. In details, NESTLER consortium has participated at the following events:

### 4.1. 29<sup>th</sup> International Fair for Agricultural Machinery, Equipment and Supplies, Greece (AGROTICA 2022)

**Agrotica** (<https://www.agrotica-expo.gr/en/>) is a well-established exhibition/fair organized biennially in Thessaloniki, Greece. It is one of the largest events of the agricultural sector focusing on the latest technological and machinery advancements. Within the context of the 29th International Fair for Agricultural Machinery, Equipment and Supplies Agrotica 2022 which took place from the 20th to the 23rd of October in the International Exhibition and Conference Centre of Thessaloniki, Greece, SYN presented the NESTLER approach focusing on the Synfield technologies as best practices for smart farming and pest infestation approaches.



**Figure 18: Presentation of the SynField technology by Synelixis at the 29th International Fair for Agricultural Machinery, Equipment and Supplies Agrotica 2022,**

<sup>1</sup> European Commission. "Communicating EU research and innovation guidance for project participants." [EU Publications](#).

<sup>2</sup> Horizon 2020 Programme. "Communicating EU research and innovation: a guide for project participants." [https://ec.europa.eu/research/participants/data/ref/h2020/other/gm/h2020-guide-comm\\_en.pdf](https://ec.europa.eu/research/participants/data/ref/h2020/other/gm/h2020-guide-comm_en.pdf)

## 4.2. 2<sup>nd</sup> Phytopathology Conference: Protection of cultivated and forest plants, food security and agricultural entrepreneurship, Cameroon

The NESTLER project was also presented in Africa and particularly the **2nd Phytopathology Conference: Protection of cultivated and forest plants, food security and agricultural entrepreneurship** on the 26<sup>th</sup> and 27<sup>th</sup> October 2023 in Cameroon, Yaounde. The conference was organized by the University of Yaounde and focuses on the different aspects and challenges of the agricultural sector such as the need for use of biological control methods for pest control, the means and methods for increasing crop quality etc.

AGRI participated in the conference presenting the NESTLER project emphasizing on digital technologies such as AI, satellite data, IOTs, and other digital devices as a solution to addressing several challenges mentioned during the presentations of other participants. Additionally, during the conference the mobile applications for plant disease and pest detection and welfare of chicken was demonstrated to all participants and received positive feedback.



Figure 19: Presentation of the NESTLER project at the 2nd Phytopathology Conference: Protection of cultivated and forest plants, food security and agricultural entrepreneurship, Yaounde, Cameroon

### 4.3. 30<sup>th</sup> AGROTICA 2024

The NESTLER project was also presented at the **30<sup>th</sup> International Fair for Agricultural Machinery, Equipment and Supplies (AGROTICA 2024)**, which was held from the 1<sup>st</sup> to the 4<sup>th</sup> of February 2024 in Thessaloniki. SYN who participated in the project, informed the visitors about the progress of the project and the latest technological advancements of the SynField technologies for collecting sensor data and monitoring field conditions.



Figure 20: Participation of SYN in the 30th International Fair for Agricultural Machinery, Equipment and Supplies Agrotica 2024

### 4.4. Africa Fertilizer and Soil Health (AFSH) summit

European Union [NESTLER] and Rockefeller Foundation through International Centre of Insect Physiology and Ecology (ICIPE) jointly with the Centre for International Forestry Research and World Agroforestry (CIFOR- ICRAF) organized a side-event during the Africa Fertilizer and Soil Health [AFSH] summit titled *“Agroecological and Regenerative Innovations for Soil Health and Sustainable Production”*. This side-event was attended by a total of 114 participants (65 males & 49 females). Ms. Carla Montesi (Director, European Commission’s Directorate-General for International Partnerships (DG EU-INTPA) was one of the panellists among others like ICIPE Regen Organics Limited, Kenya The Insectary, Kenya Boston Consulting Group (BCG) CHANZI Ltd, Kenya InsectiPro Ltd, Kenya CIFOR- ICRAF and the Rockefeller Foundation. Main recommendations from the side event included:

- 1) Foster greater collaboration between research and private sector to drive the development and commercialization of organic farm inputs.
- 2) Advocate for the combined use of organic and inorganic fertilizers for optimal results and conduct proper quality control for –insect frass fertilizers.
- 3) Drive the co-existence of centralized and decentralized models to achieve a 10% organic fertilizer application within 5 years.
- 4) Foster the building of a thriving ecosystem focused on collaborations.
- 5) Incentivize SMEs producing organic fertilizers while promoting environmental sustainability.
- 6) Policy, financial support and subsidies from governments to propel the organic fertilizer industry.



**Figure 21: Photo from Africa Fertilizer & Soil Health Summit, Kenya, including Ms. Carla Montesi (Director, EC Directorate-General for International Partnerships (DG EU-INTPA) (in blue).**



**Figure 22: Participants at the side-event organized during the Africa Fertilizer & Soil Health Summit, Nairobi, Kenya**

The summit brought together some African Heads of State, high-ranking government officials, senior policy makers, private-sector players and civil society organizations. Other participants included representatives of farmer organizations and development agencies, including NGOs, scholars and scientists, and representatives of leading donor organizations.

Also, NESTLER through European Union and ICIPE organized an international exhibition booth on insect frass fertilizer products held at **the Kenyatta International Conference Centre (KICC), Nairobi, Kenya**. Market-driven fertilizer products from over 15 SMEs developed within the projects were displayed and attracted a lot of interest from the public and private sectors.



**Figure 23: Exhibition booth of the insect frass fertilizer products displayed by ICIPE & SMEs during the 3-days side-event organized during the Africa Fertilizer & Soil Health Summit, Nairobi, Kenya.**

#### **4.5. Ethiopian Food System Resilience Program (EFSRP)**

Ethiopia has enacted an ambitious home grown economic reform agenda since 2018 and concurrently revised her agricultural and rural development policy to meet the following key objective:

- Inclusive and accelerated growth in production and productivity (providing benefits to all members of society)
- Increased competitiveness of smallholder and pastoralist agriculture

- Improved use of natural resources by enhancing development, protection and conservation of the natural resource base
- Increasing rural (non-farm) employment opportunities
- Improving resilience to natural and other causes of vulnerability

In-line with the above, the Ethiopian Ministry of Agriculture has designed the Agriculture Sector 10 Years Perspective Plan (2020-2030) with the objective of overall structural transformation in the country's agriculture. In support of implementations of the ten years` perspective plans, the Ministry of Agriculture (MoA) has launched Food System Resilience Program (FSRP) as the national flagship project with the aim to contribute to food-system-transformation, enhanced competitiveness, rural job creation, and improved resilience. The project focuses on three main pillars including rural job creation, improving competitiveness of the agri-food system, and enhancing the overall resilience of the country's agricultural sector towards ensuring food and nutrition security. Overall, the project aims to improve resilience of food systems and increase preparedness against food insecurity in Ethiopia, which is also in-line with the NESTLER project initiatives within EU-Africa.

Three members of the NESTLER team at EIAR have participated in the launching workshop of the project held on 9<sup>th</sup> March 2023 and 6<sup>th</sup> April 2023 at MoA and EIAR, respectively and gained useful experiences of practical relevance to the NESTLER project initiatives. Moreover, as the NESTLER team at EIAR is also engaged in the implementation of the research component of FSRP, it is anticipated that some of the results emanating from the ongoing pilot demonstrations under the NESTLER project will be potential inputs for integration into FSRP initiatives and further promotion to end users at reasonable scale.

#### 4.6. Bilateral meetings and dissemination meetings

To strengthen collaboration and closely monitor progress, beyond general project meetings, a number of bilateral NESTLER project meetings took place.



Figure 24: Dr. Th. Zahariadis (SYN, project coordinator), G. Athanasiou (SYN) and Prof. I. Danwajeh (UCL) visiting ICIPe on 22-23 February 2024



Figure 25: NESTLER consortium (SYN, ICIPE) at BSF exhibition in Nairobi, Kenya



Figure 26: Dr. Uwituze (RAB, Deputy Director General/ Animal) and RAB team with NESTLER coordinator Dr. Th. Zahariadis and G. Athanasiou (SYN) in Kigali, Rwanda

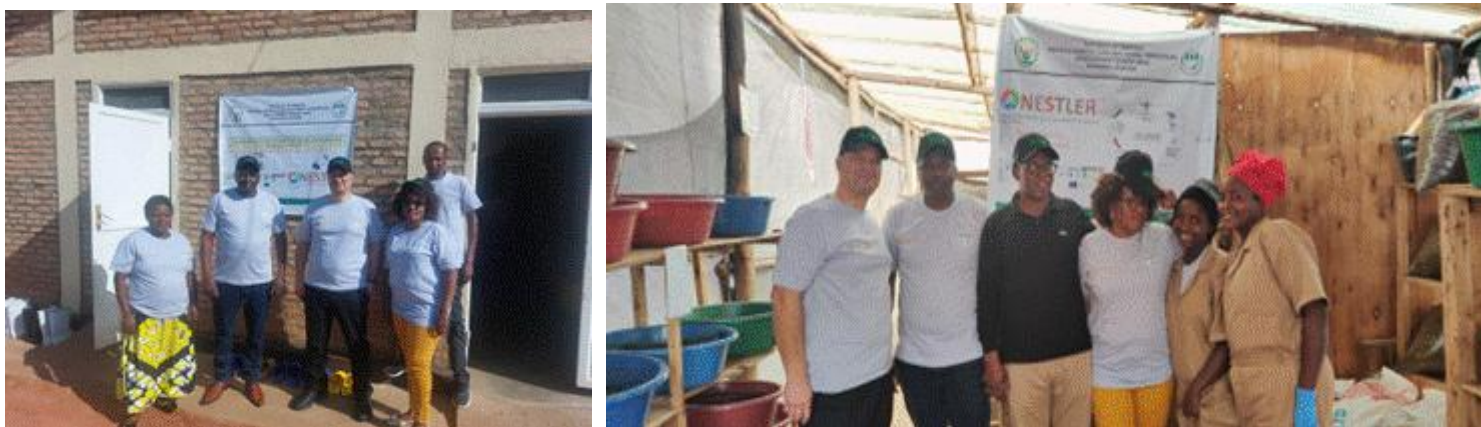


Figure 27: NESTLER consortium (RAB and SYN) visiting a chicken and BSF farm in Kigali, Rwanda

#### 4.7. 1st Automation & Robotics expo 2024

SYN presented NESTLER at the 1st Automation & Robotics Exhibition in Greece, which was held on 12-14 April 2024 at the Athens Metropolitan Expo. Within the framework of this exhibition. Visitors were informed about the technologies incorporated in NESTLER project such as Agri-environmental monitoring and precision farming solutions.



Figure 28: Participation of SYN in the 1st Automation & Robotics Exhibition in Greece

#### 4.8. Copernicus Land Monitoring Service (CLMS) General Assembly

The 1st CLMS General Assembly took place from 3 to 4 June 2024 in Antwerp, Belgium and brought 300+ people online and in-person, from industry experts to researchers and policymakers. The event included discussions on CLMS plans and developments, exploration of use cases and user requirements, engaging interactive marketplace and poster sessions, as well as presentations on research projects and the strategic agenda. NESTLER project was showcased in the 2<sup>nd</sup> day poster session, together with a teaser presentation in between the main stage's discussions. The poster session had many fruitful discussions with policymakers and industry experts, and useful feedback was gathered.



Figure 29: NESTLER presented at the 1st CLMS General Assembly in Antwerp, Belgium.



Figure 30: NESTLER presented at the 1st CLMS General Assembly

## 4.9. Zootechnia 2025

The NESTLER project was showcased at Zootechnia 2025 in Thessaloniki, Greece, during a presentation led by project coordinator Dr. Theodore Zahariadis. As the country's leading event for the livestock and poultry sector, Zootechnia provided an important platform to engage with industry professionals, policymakers, and stakeholders from Greece and the Balkans. During the exhibition, key project outcomes were shared, with a focus on the use of Black Soldier Fly (BSF) larvae as a sustainable alternative protein source for animal feed. Discussions were also held with representatives of the Greek Ministry of Rural Development and Food and sector professionals.

In parallel, participation in a strategic meeting organized by ETHEAS (National Union of Agricultural Cooperatives of Greece) further strengthened stakeholder engagement. The discussion highlighted the role of circular economy practices and addressed zoonotic disease risk in small ruminants, emphasizing NESTLER's contribution to animal health, biosecurity, and sustainable livestock production.



Figure 31: Participation of SYN in the Zootechnia 2025

#### 4.10. Agro Vision 2025

NESTLER was showcased by SYN at the agricultural and livestock equipment exhibition Agro Vision 2025 in Filiatra, Messinia. The exhibition was held from September 5 to 7, 2025. As the premier agricultural fair in the Peloponnese, it highlighted the entire range of agricultural production and agri-technology. Attendees had the chance to explore the project's objectives, its main innovations, and the advantages it offers across the agricultural value chain.



Figure 32: Participation of SYN in Agro Vision 2025

#### 4.11. 8th International Verde.Tec Exhibition 2026

NESTLER presented by SYN at the 8<sup>th</sup> Verde.Tec Exhibition, one of Greece's premier events focused on environmental technologies and sustainable development. The exhibition was held from February 27–28 and March 1, 2026, at the Mediterranean Exhibition Center (MEC) in Paiania, Attica. Verde.Tec gathers leading companies, research organizations, public authorities, and forward-thinking initiatives that present innovative solutions in environmental protection, circular economy, smart cities, and sustainable infrastructure. It has established itself as a major hub for stakeholders driving Greece's green and digital transformation. During the three-day Verde.Tec 2026 event, NESTLER presented its vision, activities, and objectives, showcasing its approach to scalable digital solutions for sustainable agriculture and data-driven decision-making. Participation in the exhibition enhanced the project's visibility, while fostering networking, knowledge exchange, and collaboration with industry stakeholders.



Figure 33: Participation of SYN in the 8<sup>th</sup> Verde.Tec Exhibition

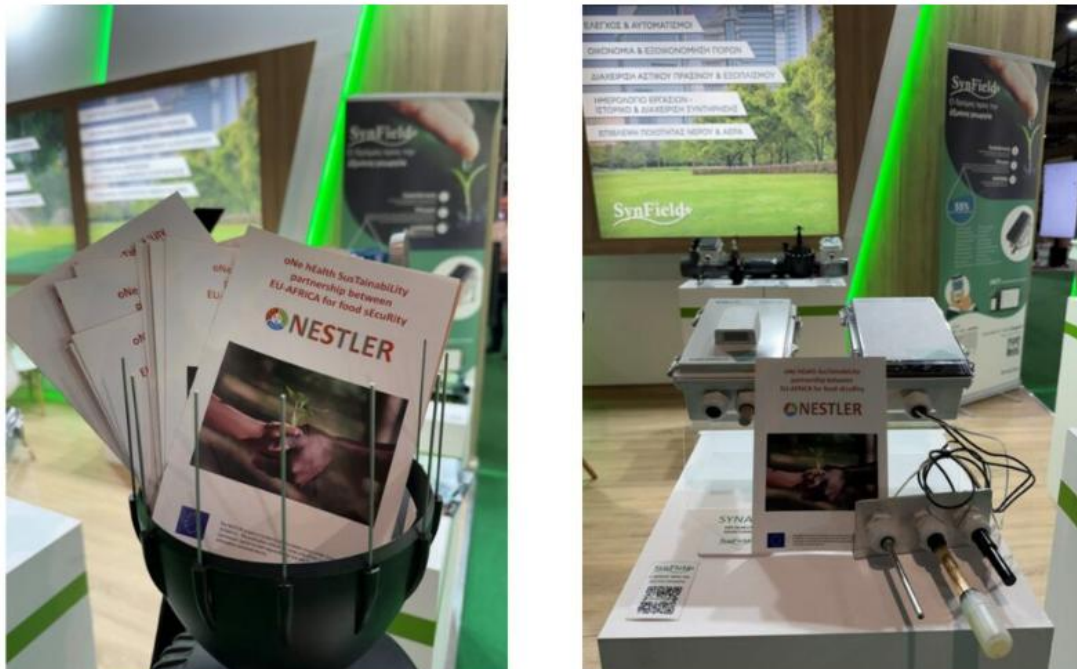


Figure 34: Participation of SYN in the 8<sup>th</sup> Verde.Tec Exhibition

#### 4.12. 31<sup>st</sup> AGROTICA 2026

The NESTLER project was also presented at the **31<sup>st</sup> International Fair for Agricultural Machinery, Equipment and Supplies (AGROTICA 2026)**, held from the 12<sup>th</sup> to the 15<sup>th</sup> of March 2026 in Thessaloniki, Greece. SYN informed the visitors about the latest project results and updates, as well as the latest technological advancements of the SynField technologies for collecting sensor data and monitoring field conditions.



Figure 35: Participation of SYN in the 31<sup>st</sup> International Fair for Agricultural Machinery, Equipment and Supplies Agrotica 2026



Figure 36: Participation of SYN in the 31<sup>st</sup> International Fair for Agricultural Machinery, Equipment and Supplies Agrotica 2026

### 4.13. Press Releases and Media

NESTLER has been featured in third-party media, both in print and online. The project was highlighted in *Agrenda*, one of Greece’s leading weekly agricultural newspapers, widely recognized within the agri-food sector. The article, published in February 2024 and distributed nationwide in both print and digital formats, presented innovative digital and smart farming solutions, with specific reference to the NESTLER project and the deployment of SynField IoT devices in its research activities in Africa. This media coverage significantly enhanced the project’s visibility and outreach, increasing awareness among farmers, cooperatives, advisors, agri-food stakeholders, and policymakers, and reinforcing its impact within the primary production sector.



Το δίκτυο συστημάτων ευφυούς γεωργίας SynField εκτείνεται πλέον σε τρεις ηπείρους. Πέρα από τις πολυάριθμες εμπορικές εγκαταστάσεις σε 15 χώρες του κόσμου, νέα συστήματα SynField θα τοποθετηθούν στην Αφρική. Η Synelixis, βρίσκεται στη θέση του επικεφαλής και συντονίζει το μεγάλο Ευρωπαϊκό έργο NESTLER προϋπολογισμού 4,4 εκ. ευρώ, στα πλαίσια του οποίου θα εγκατασταθούν νέα συστήματα SynField σε 6 Αφρικανικές χώρες (Αιθιοπία, Κένυα, Νιγηρία, Ουγκάντα, Ρουάντα και Καμερούν).

Figure 37: NESTLER featured at Agrenda – Major Greek Agricultural newspaper

#### 4.14. Capacity Building

NESTLER project has built capacity (soft and hard skills) of 1546 youths and women in Kenya (936 males and 610 females) through an Entrepreneurship incubation program established in ICIPE.

Moreover, the project has increased visibility of insect farming and currently the **First Lady of Kenya (Rachel Chebet Ruto)** has endorsed the scale up of insect farming under the "Mama Doing Good" initiative. Many other groups have benefited from this training program such as Caritus Muranga Fish Farmers, Korogocho youth group, Kenya Red Cross, Rainforest Alliance, DanChurchAid and others.



Figure 38: Group Photos of young entrepreneurs that have started their business in insect farming or using BSFL feeders based on NESTLER capacity building activities



Figure 39: NESTLER consortium (ICIPE, SYN and UCL) visiting a commercial chicken farm in Nairobi, already exploiting insect feeding for chickens



Figure 40: NESTLER consortium (ICIPE, SYN and UCL) visiting a commercial BSF farm in Nairobi, Kenya (the larval, pre-pupal and pupal BSF section)

#### 4.15. Farmers' Training on Black Soldier Fly (BSF) Larvae Farming

In Kenya (Nairobi) and Rwanda, dedicated training sessions engaged farmers and local stakeholders. These programs combined theoretical instruction with hands-on practice. Classroom-based sessions introduced core concepts and technical principles, while practical training was conducted at poultry farms and Black Soldier Fly (BSF) production units. The training followed a train-the-trainer model, requiring each participant to transfer knowledge to at least three additional individuals within their communities. This approach significantly strengthened knowledge dissemination and enhanced local capacity. As part of the NESTLER Project, farmers were specifically trained in BSF larvae farming using standardized operating procedures (SOPs). BSF larvae meal offers a sustainable alternative protein source, with strong potential to replace soybean or fish meal in aquaculture feed.

In Rwanda, 100 farmers were trained by RAB in 2024 through this program. The training equipped participants not only with technical skills but also with the capacity to act as local trainers. Practical sessions took place at both poultry sites and a BSF larvae production unit, ensuring direct, real-world application of the knowledge gained. The program successfully fostered community-level knowledge transfer and contributed to building a scalable and sustainable training ecosystem.



Figure 41: Group Photos of farmers training in Rwanda



Figure 42: Group Photos of farmers training

## 5. Dissemination activities

Dissemination focuses on spreading the results of the project to stakeholders who can make use of the knowledge produced. The primary goals are to maximize the impact of the research and to ensure that findings reach the target audience who can benefit from and further apply this knowledge. The dissemination activities include the organisation of project events by the NESTLER partners and the participation of NESTLER in high-impact third-party events related to agriculture.

In details, NESTLER has participated or organized the following scientific or targeted dissemination activities/workshops.

### 5.1. INSECTA 2023 International Conference Magdeburg, Germany,

ICIPE participated in the INSECTA 2023 International Conference on insects for food, feed and non-food application, which was organized on the 13<sup>th</sup> and 14<sup>th</sup> September 2023 in Magdeburg, Germany<sup>3</sup>. The NESTLER project activities were presented with eight (8) abstracts published on several topics<sup>4</sup>. INSECTA has gathered together more than 200 experts, stakeholders from science, business and other sectors from all over the world to present and discuss state-of-the-art insect-based technologies. Within the conference, about 60 orals and 40 poster presentations have addressed topics from research, rearing and processing to safety, ethics and waste valorisation..



Figure 43: NESTLER presentation at the Insecta 2023 International Conference in Magdeburg, Germany.

### 5.2. CISAR Symposium

CEO participated in the Climate Insurance Solutions for Agricultural Risks (CISAR) Symposium which was organized on the 7<sup>th</sup> and 8<sup>th</sup> of May, 2023 in Germany<sup>5</sup>. This event has gathered together stakeholders from the agricultural insurance domain. As such, it was a great opportunity for networking of the project

<sup>3</sup> <https://www.royaldutchkusters.com/events/insecta-2023>

<sup>4</sup> <https://insecta-conference.com/wp-content/uploads/2023/09/INSECTA-2023-BOOK-of-ABSTRACT.pdf>

<sup>5</sup> <https://www.genillard-co.com/2022/09/21/2023-cisar-symposium-save-the-date/>

and further business development of the Answr service developed by CEO. Answr is an API-based platform for climate risk analytics worldwide. It provides answers based on flexible, localized, and highly-available climate and risk data layers for various applications.

### 5.3. Workshop on “Exploration of Antimicrobial Compounds from Edible Insects and Chicken parts for Applications in Food and Industry”

ICIPE participated in the organization of the Insects for the Green Economy conference ([IGEC](#)) held on the 28–29 February 2024 at the African Institute for Capacity Development ([AICAD](#)) at Jomo Kenyatta University of Agriculture and Technology ([JKUAT](#)), Nairobi, Kenya<sup>6</sup>. The theme of the conference was sustainable food systems and livelihoods in Africa, aiming to explore into the multifaceted roles of insects in driving food security, economic growth, environmental sustainability, and innovation in context of African continent. The conference was a landmark event that brought together researchers, policymakers, and stakeholders both African and international, to explore the potential of insects in shaping a sustainable future. Conference participants included experienced and early-stage researchers, students, policymakers, entrepreneurs, and various stakeholders. Through keynote and research project presentations, in-depth discussions, and stakeholder interactions, the participants explored the latest research and innovations driving the insect sector forward both at the local and global levels. The conference highlighted the pivotal role of technological innovations in unlocking the full potential of insects for the green economy. Presentations on emerging technologies such as automated insect rearing systems, product processing and insect-based non-food products (antimicrobial compounds) offered glimpses into the future of insect-related industries.

The IGEC served as a catalyst for advancing dialogue, collaboration, and action towards harnessing the transformative potential of insects in building a sustainable future. Through vibrant discussions, insightful presentations, and networking opportunities, participants gained a deeper understanding of the multifaceted roles of insects in driving environmental sustainability, food security, and economic prosperity. The momentum generated by the conference is poised to propel forward the integration of insects into the fabric of food security and green economy.



Figure 44: Participants group photo in the Insects for the Green Economy Conference.

<sup>6</sup> <http://www.icipe.org/news/announcements/insects-green-economy-conference>

#### 5.4. IEEE AFRICON 2023 & NESTLER 3<sup>rd</sup> Plenary Meeting

In parallel to the IEEE AFRICON 2023 conference, the partners have gathered to address project related issues in a two-day hybrid meeting. The meeting hosted by ICIPE, in Nairobi, Kenya on September 25<sup>th</sup> and 26<sup>th</sup> of 2023. As the project enters the second year, the progress is significant, both on the technical and organizational side. A fruitful discussion took place among the partners of the consortium. During the two-day meeting, the consortium reviewed the progress on all work packages and had the chance to address development issues.



Figure 45: NESTLER plenary in parallel to the IEEE AFRICON Conference in Nairobi, Kenya

The partners presented the results achieved so far and the next steps towards the successful delivery of the NESTLER project. During the 3<sup>rd</sup> plenary meeting of NESTLER in Kenya, the partners of the consortium visited the project pilot in Nairobi, on the 26<sup>th</sup> of September 2023<sup>7</sup>.

#### 5.5. 2<sup>nd</sup> IEEE Conference on Agrifood Electronics (CAFÉ 2024)

NESTLER participated in the 2<sup>nd</sup> IEEE Conference on Agrifood Electronics (CAFÉ 2024), held from 26-28 September 2024 in the historic city of Xanthi, Greece. The event brought together a global community of researchers, industry experts, and innovators to explore cutting-edge advancements in agrifood electronics—technologies poised to revolutionize agricultural practices, food production, and food safety. On behalf of NESTLER, Marios Sophocleous from EBOS presented the following two impactful papers, showcasing innovative research and practical applications for the agricultural sector: Multimodal Neural Network for Detecting and Classifying Deviations in Poultry Behavior<sup>8</sup>, Utilisation of Mesh-in-the-Sky and Advanced IoT Sensors in Agriculture<sup>9</sup>.

<sup>7</sup> <https://nestler-project.eu/index.php/2023/09/29/nestler-pilot-in-kenya>

<sup>8</sup> <https://doi.org/10.5281/zenodo.14523474>

<sup>9</sup> <https://doi.org/10.5281/zenodo.14523754>



Figure 46: NESTLER partner EBOS attended the 2nd IEEE Conference on Agrifood Electronics (CAFÉ 2024).

## 5.6. Organization of Technical workshops

The first technical workshop of the project entitled **“Impact of NESTLER technologies and digital tools in One Health Sustainability”**, was organized on the 29<sup>th</sup> of September 2023 in conjunction with the Plenary Project Meeting which was held in Nairobi, Kenya.



Figure 47: 1<sup>st</sup> NESTLER Technical Workshop (hybrid)

The aim of the workshop was to inform the wider community about the NESTLER project and its goals and advancements in the context of the ONE-HEALTH program. The workshop was organized in a hybrid way enabling every interested stakeholder to take part. Stakeholders from different domains such as representatives from African member states, technical experts, domain experts and researchers from the agritech domain etc. In total, 36 participants followed the technical workshop, 17 of them with physical presence. A detailed list of participants can be found in Annex 1.

The workshop had a duration of three hours during which the technology partners (SYN, CEO, AGRI, RINI, UCL) of the project presented the different technical solutions that will be combined providing a holistic approach for smart animal and plant management.

NESTLER Workshop Impact of NESTLER technologies and digital tools in One Health Sustainability Agenda 29 September 2023		
Time	Topic	Presenter
13:40 – 15:45	Project presentation,	Dr. Theodore Zahariadis (Synelixis)
	Redefining parametric crop risk management	Dr. Dimitrios Sykas (CloudEO)
	Environmental Monitoring: SynField Solution	Stavroula Bourou, MSc (Synelixis)
	AI algorithms for external weather impact assessment upon agriculture farming,	Dr. Adamou Kouotou (AgrixTech)
	Electronics for crop quality measurement,	Prof. Izzat Danwajeh and Dr. Temotpe Odedeyi (UCL)
	AI for livestock and aquaculture farming,	Natalia Polushkina (RiniSoft)
	NESTLER Technologies and Pipeline for Pest Infestation Identification	Dr. Theodore Zahariadis (Synelixis)
15:45 – 16:00	Break	
16:00 – 17:00	Open-table discussion: One Health Sustainability	All

**Figure 48: Agenda of the NESTLER Workshop**

After the presentation, there was a one-hour open table discussion about the project and the One health sustainability approach. The open table discussion was managed by CTPH, IITA, RAB and EIAR. During the discussion important questions were raised and valuable feedback was shared among the participants.

## 5.7. 1st One-Health Agri-Tech Workshop

The First One Health Agri-Tech Workshop, held in Greece on May 27, 2025, functioned as a dynamic platform for fostering collaboration across continents. The event convened over 50 participants—including researchers, industry professionals, policymakers, and key stakeholders from Europe and Africa—who engaged both in person and virtually. The workshop centered on advancing the EU–Africa One Health agenda, highlighting innovative technological solutions aimed at addressing critical challenges in the agri-food sector. Key focus areas included zoonotic disease monitoring, soil health enhancement, food safety and security, and the promotion of sustainable agricultural practices.

By bringing together diverse expertise and perspectives, the event facilitated meaningful knowledge exchange and strengthened cross-regional partnerships. These collective efforts underscored NESTLER’s integrated approach to stakeholder engagement and capacity building, demonstrating a well-structured strategy designed to deliver lasting impact. Moreover, the initiative emphasizes scalability and supports systemic transformation, contributing to the long-term resilience and sustainability of the agri-food sector.



Figure 49: The 1st One-Health Agri-Tech Workshop in Athens, Greece



Figure 50: Dissemination material at the 1st One-Health Agri-Tech Workshop in Athens, Greece



Figure 51: The 1st One-Health Agri-Tech Workshop

### 5.8. One-Health sustainability roadmap for EU-Africa partnership release

The release of the One-Health Sustainability Roadmap marked a key milestone of the NESTLER project, representing the culmination of interdisciplinary research, stakeholder engagement, and technological innovation. The roadmap established a unified, strategic direction for implementing One-Health principles across both European and African contexts, addressing the interconnected health of humans, animals, plants, and ecosystems. The NESTLER One-Health Sustainability Roadmap for the EU–Africa Partnership<sup>10</sup> was officially published on the project’s website and widely disseminated through all available online communication channels, including social media, stakeholder networks, and targeted outreach activities. Following its release, the roadmap attracted significant interest, achieving more than 200 downloads, demonstrating its relevance and uptake among key stakeholders and the wider community.

The roadmap provided a structured and forward-looking framework for operationalizing the One-Health approach within the EU–Africa collaboration. Grounded in scientific evidence and guided by inclusive stakeholder engagement, it articulated a multi-level strategy connecting health, agriculture, environment, and socio-economic dimensions. It outlined concrete pathways for strengthening governance mechanisms, enhancing research and innovation capacities, and supporting institutional development to better address risks at the human–animal–environment interface. Rather than serving as a static document, the roadmap was designed as a dynamic and adaptable framework, capable of evolving in response to emerging risks, stakeholder needs, and policy developments. Emphasizing resilience, inclusivity, and contextual relevance, it contributed to bridging global One-Health objectives with actionable, local-level implementation across EU and African regions.

<sup>10</sup> [https://nestler-project.eu/wp-content/uploads/2025/10/NESTLER\\_One-Health-sustainability-roadmap-for-EU-Africa-partnership\\_v1-1.pdf](https://nestler-project.eu/wp-content/uploads/2025/10/NESTLER_One-Health-sustainability-roadmap-for-EU-Africa-partnership_v1-1.pdf)

## 5.9. NESTLER Stakeholders' meetings

As already defined in D6.2 Dissemination and Communication Activities Plan, the key stakeholders of the project include:

- Farmers, feed industry suppliers, precision farming suppliers, healthcare professionals, nutritional analysts, government representatives' policy makers
- Healthcare community, industrial suppliers of agriculture sensors, IoT device manufacturers, venture capitals, angel investors
- General public, industry, local communication organisations
- Business organisations, stakeholder groups

Throughout the project lifespan 3 Stakeholders' meeting events have been organised.

Stakeholder meetings within NESTLER served as a key mechanism for engagement and validation, ensuring alignment of project activities with the needs of target groups. By bringing together researchers, technology providers, policymakers, and agricultural practitioners, these meetings enabled structured dialogue, knowledge exchange, and validation of the project's technological solutions.

They also allowed the consortium to present progress, gather feedback, and refine tools in line with One Health and sustainability objectives, enhancing their applicability across diverse contexts. Beyond dissemination, stakeholder participation fostered ownership and increased the likelihood of long-term uptake of project results, while strengthening collaboration between EU and African partners.

In total, three stakeholder meetings were successfully organised, engaging a wide range of participants from both regions.

### 5.9.1. 1<sup>st</sup> Stakeholders meeting 13.03.2023

The 1<sup>st</sup> Stakeholders meeting was organised virtually on the 13<sup>th</sup> of March 2023. The aim of the meeting was to present an overview of the project and the One Health sustainability partnership between EU-Africa to domain experts from the agricultural sector who will play an important role in providing feedback during the implementation of the project.

The 1<sup>st</sup> stakeholders meeting was followed by 42 participants.



Figure 52: 1st Stakeholders' meeting, 13.03.2023

The Agenda of the meeting can be seen below.



### Stakeholders' Meeting Agenda

Connection details

[Click here to join the meeting](#)

13<sup>th</sup> of March 2023

TIME	TOPIC	LEAD
14:30	Welcome. Overview of the NESTLER project	<i>Prof. Theodore Zahariadis, PhD</i> NESTLER Coordinator President of the Agriculture Development and Agrofood Dept. of University of Athens, Greece Chief Technology Officer, Synelixis S.A.
14:50	Promotion of One Health sustainability partnership between EU-Africa	<i>Dr. Fekede Feyissa</i> Director, Livestock Research Lead Researcher, Animal Feeds and Nutrition Ethiopian Institute of Agricultural Research
15:10	The NESTLER technology platform	<i>Dr. Dimitrios Sykas</i> Chief Technology Officer CloudEO A.G.
15:30	Study of insect protein processing technology and contribution to circular economy	<i>Dr. Chrysantus Mbi Tanga</i> Senior Scientist Head of Insects for Food, Feed & Other Uses International Centre of Insect Physiology & Ecology
16:00	Q&A and feedback session	ALL



NESTLER receives funding from the EU Horizon R&I Programme under Grant Agreement No. 101060672

**Figure 53: Agenda of the 1st NESTLER Stakeholders' Meeting**

#### 5.9.2. 2<sup>nd</sup> Stakeholders meeting 06.03.2024

The 2<sup>nd</sup> Stakeholders meeting was organised virtually by AGRI and took place on the 6<sup>th</sup> of March 2024. The aim of the meeting was to present the different Pilots of the project in the 6 African countries (Nigeria, Uganda, Camerron, Rwanda, Kenya, Ethiopia) to the different stakeholders and field experts identified at the beginning of the project.

The 2<sup>nd</sup> stakeholders meeting was followed by 38 participants

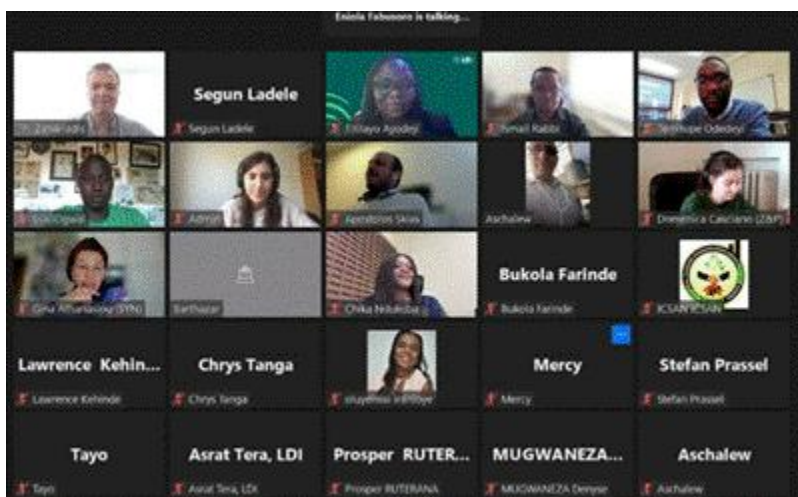


Figure 54: 2<sup>nd</sup> Stakeholders Meeting, 06.03.2024

The meeting started with an overview presentation of the project and was followed by detailed presentation of the progress and challenges of all Pilots. The meeting was closed with a discussion and Q&A session where valuable feedback was provided.



### Stakeholders' Meeting Agenda

Connection details

[Click here to join the meeting](#)

6<sup>th</sup> of March 2024

TIME	TOPIC	LEAD
14:30	Welcome. Overview of the NESTLER project	<b>Prof. Theodore Zahariadis, PhD</b> NESTLER Coordinator President of the Agriculture Development and Agrofood Dept. of University of Athens, Greece Chief Technology Officer, Synelxis S.A.
14:45	Pilot 1: Crop-based farming – Cameroon	<b>Adamou Nchange Kouotou</b> Agritech CEO
15:55	Pilot 2: Biodiversity conservation policies and practices – Uganda	<b>Ssali Ronald Ogwai</b> Coordinator – Community Health & Conservation at CTPH
15:05	Pilot 3: Crop and Livestock farming – Ethiopia	<b>Dr. Fekede Feyissa</b> Director, Livestock Research Lead Researcher, Animal Feeds and Nutrition Ethiopian Institute of Agricultural Research at EIAR
15:15	Pilot 4: Livestock and marine farming – Rwanda	<b>Dr. Pascal Nyabinwa</b> Senior Research Fellow in Ruminant Nutrition and Production System at RAB
15:35	Pilot 5: Edible insect farming – Kenya	<b>Dr. Chrysantus Mbi Tanga</b> Senior Scientist Head of Insects for Food, Feed & Other Uses International Centre of Insect Physiology & Ecology at ICIPE
15:45	Pilot 6: Crop quality monitoring solutions and impact on food security – Nigeria	<b>Ismail Rabbi</b> Molecular Geneticist / Breeder at IITA
16:00	Q&A and feedback session	ALL

Figure 55: Agenda of the 2nd NESTLER Stakeholders' meeting

### 5.9.3. 3<sup>rd</sup> Stakeholders meeting 26.02.2026

The 3<sup>rd</sup> Stakeholder group meeting of the NESTLER project was held online on February 26, 2026 (M41). During the meeting, the consortium provided a comprehensive overview of the project’s progress, highlighting the efforts undertaken to promote a One-Health sustainability partnership between the EU and Africa. The presentation covered key developments and achieved outcomes, alongside a detailed showcase of the results generated through the pilot activities implemented across six African countries. The last stakeholder group meeting attended by more than 40 participants.

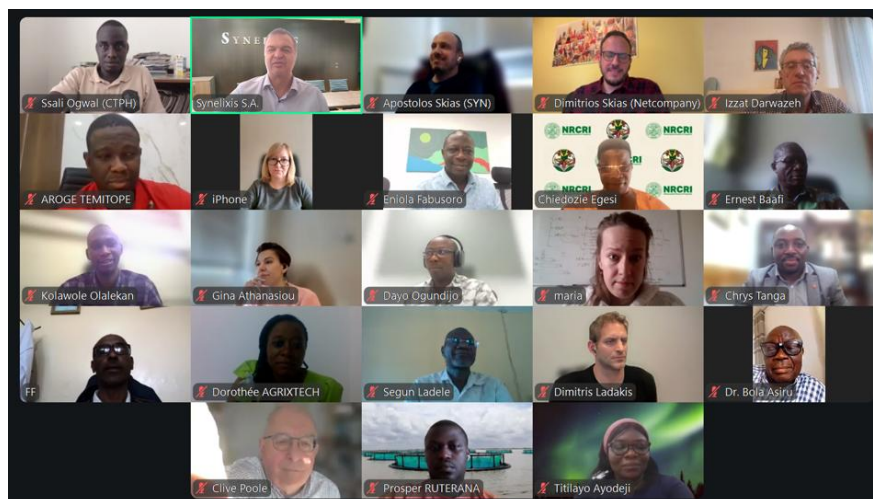


Figure 56: 3<sup>rd</sup> Stakeholders Meeting, 26.02.2026

TIME	TOPIC	LEAD
13:00 – 13:15	Welcome. Overview of the NESTLER project	<b>Prof. Theodore Zahariadis, PhD</b> NESTLER Coordinator President of the Agriculture Development and Agrofood Dept. of University of Athens, Greece Chief Technology Officer, Synelxis S.A.
13:15– 13:25	Promotion of One Health sustainability partnership between EU-Africa	<b>Dr. Fekede Feyissa</b> Director, Livestock Research Lead Researcher, Animal Feeds and Nutrition Ethiopian Institute of Agricultural Research
13:25– 14:30	NESTLER PILOTS – Results	AGRI, CTPH, RAB, IITA, EIAR, ICIPE
14:30– 14:45	Advisory Board feedback session	Advisory Board
14:45– 14:55	Q&A session	ALL
15:00	Closing	IDH

Figure 57: The Agenda of the 3rd NESTLER Stakeholders’ meeting, 26.02.2026

## 5.10. NESTLER Advisory Board

The Advisory Board played an important role in strengthening stakeholder engagement and dissemination by providing independent expertise and cross-sectoral perspectives. Its contributions ensured that project activities remained aligned with wider societal, environmental, and economic priorities, while also supporting the clear communication and practical relevance of NESTLER's results.

Throughout the project, two Advisory Board meetings were successfully organised, offering a structured platform for dialogue between the consortium and external experts. These interactions enhanced the quality of feedback, improved the positioning of project outcomes, and supported more targeted outreach to key stakeholder groups. The continuous engagement with the Advisory Board contributed to refining the project's strategic direction, increasing the visibility and credibility of its results, and reinforcing its potential for long-term, scalable impact beyond the project's duration.

The NESTLER Advisory Board consisted of four external experts, namely Prof. C. Egesi, Prof. D. Ladakis, Dr. E. Baafi and Mr. D. Skias.

### **Prof. C. Egesi**

Prof. C. Egesi is an experienced academic and researcher with expertise in agricultural sciences and crop improvement, particularly in root and tuber crops. He has extensive experience in international research projects, focusing on plant breeding, food security, and sustainable agricultural practices. Prof. Egesi has contributed significantly to capacity building and knowledge transfer, with a strong track record of scientific publications and collaboration with global research institutions.

### **Prof. Dimitrios C. Ladakis, PhD**

Prof. Dimitrios C. Ladakis is a Chemical Engineer with extensive expertise in process engineering, sustainable technologies, and resource valorisation. His research focuses on the development of innovative solutions in areas such as bio-based processes, environmental technologies, and circular economy applications. He has significant experience in European research projects, contributing to the design, optimisation, and scale-up of sustainable processes, as well as to bridging research outcomes with industrial applications.

### **Dr. E. Baafi**

Dr. E. Baafi is a researcher with expertise in environmental management, geospatial analysis, and sustainable development. His work includes the application of GIS and data analytics for monitoring natural resources and supporting evidence-based decision-making. He has participated in several international projects and has contributed to research outputs related to environmental assessment and policy support.

### **Mr. D. Skias**

Mr. D. Skias is a technology specialist with expertise in software development, data systems, and digital platform integration. He has experience in the design and implementation of scalable ICT solutions, supporting data processing, analytics, and system interoperability. His work contributes to the development of innovative technological solutions and their deployment in real-world environments.

#### 5.10.1. 1<sup>st</sup> Advisory Board meeting 05.03.2025

The first Advisory Board meeting was held online on 5 March 2025, bringing together Board members and consortium partners in a constructive and collaborative exchange. The session provided a valuable

platform for external experts to share targeted feedback, supporting the identification of opportunities to strengthen project outcomes and refine key messages. This interaction contributed to improving the relevance, clarity, and communication of NESTLER’s results, while also helping anticipate challenges and enhance engagement with stakeholders in subsequent phases of the project.

5<sup>th</sup> of March 2025  
 12:00-13:30 Greece/Rwanda (11:00-12:30 Brussels/Ethiopia/Kenya/ Uganda)

TIME	TOPIC	LEAD
12:00	Welcome. Overview of the NESTLER project	<b>Prof. Theodore Zahariadis, PhD</b> NESTLER Coordinator President of the Agriculture Development and Agrofood Dept. of University of Athens, Greece Chief Technology Officer, Synelxis S.A.
12:20	Promotion of One Health sustainability partnership between EU-Africa	<b>Ssali Ronald Ogwal</b> Coordinator - Community Health & Conservation Conservation Through Public Health (CTPH)
12:40	NESTLER Visual Identification ML Technologies	<b>Denis Kolev - PhD</b> Head of R&D Department Rinisoft OOD
13:00	Study of insect protein processing technology and contribution to circular economy	<b>Dr. Chrysantus Mbi Tanga</b> Senior Scientist Head of Insects for Food, Feed & Other Uses International Centre of Insect Physiology & Ecology
13:20	Q&A and feedback session	ALL

Figure 58: The agenda of the 1st Advisory Board Meeting of NESTLER

### 5.10.2. 2<sup>nd</sup> Advisory Board meeting 26.02.2026

The second Advisory Board meeting took place online on 26 February 2026, in conjunction with the 3rd NESTLER Stakeholders Group Meeting, enabling a more integrated exchange between external experts and a wider stakeholder community. This joint format strengthened dialogue, enhanced the visibility of project outcomes, and supported broader dissemination. The feedback received was highly positive, with Advisory Board members highlighting both the scientific value and practical relevance of the results, as well as their strong potential for further uptake and exploitation.

TIME	TOPIC	LEAD
13:00 – 13:15	Welcome. Overview of the NESTLER project	<b>Prof. Theodore Zahariadis, PhD</b> NESTLER Coordinator President of the Agriculture Development and Agrofood Dept. of University of Athens, Greece Chief Technology Officer, Synelxis S.A.
13:15– 13:25	Promotion of One Health sustainability partnership between EU-Africa	<b>Dr. Fekede Feyissa</b> Director, Livestock Research Lead Researcher, Animal Feeds and Nutrition Ethiopian Institute of Agricultural Research
13:25– 14:30	NESTLER PILOTS – Results	AGRI, CTPH, RAB, IITA, EIAR, ICIPE
14:30– 14:45	Advisory Board feedback session	Advisory Board
14:45– 14:55	Q&A session	ALL
15:00	Closing	IDH

Figure 59: The agenda of the 2<sup>nd</sup> Advisory Board Meeting of NESTLER

## 5.11. Publications in Open Access Journals

Throughout the project, a substantial number of scientific publications were produced by NESTLER consortium members, many of which were co-authored. The full list of publications is provided below, and all papers have been made openly accessible via the Zenodo repository.

The Annex 2 provides a detailed analysis of the NESTLER publications and the Tasks that are associated with them.

### List of Open Access Journals

1. Bulinda C., Gido E.O., Kirscht H., Tanga C.M., *Gendered Awareness of Pig and Poultry Farmers on the Potential of Black Soldier Fly (Hermetia illucens) Farming in Kenya*, MDPI Sustainability, Vol. 15, Issue 4, February 2023, <https://doi.org/10.3390/su15043613>
2. Kariuki E.G., Kibet C., Paredes J.C., Mboowa G., Mwaura O., Njogu J., Masiga D., Bugg T.H., Tanga C.M., *Metatranscriptomic analysis of the gut microbiome of black soldier fly larvae reared on lignocellulose-rich fiber diets unveils key lignocellulolytic enzymes*, Frontiers in Microbiology, Vol. 14, Issue 26, April 2023, <https://doi.org/10.3389/fmicb.2023.1120224>
3. Muinde J., Tanga C.M., Olukuru J., Odhiambo C., Tonnang H.E.Z., Senagi K., *Application of Machine Learning Techniques to Discern Optimal Rearing Conditions for Improved Black Soldier Fly Farming*, MDPI Insects, Vol. 14, Issue 5, May 2023 <https://doi.org/10.3390/insects14050479>
4. Munguti J.M., Obiero K.O., Iteba J.O., Kirimi J.G., Kyule D.N., Orina P.S., Githukia C.M., Outa N., Ogello E.O., Mboya J.B., Ouko K.O., Liti D., Yossa R., Tanga C.M., *Role of multilateral development organizations, public and private investments in aquaculture subsector in Kenya*, Frontiers in Sustainable Food Systems, Vol. 7, August 2023, <https://doi.org/10.3389/fsufs.2023.1208918>
5. Tanga C.M., Kababu M., *New insights into the emerging edible insect industry in Africa*, Oxford Academic Animal Frontiers, Vol. 13, Issue 4, Pages 26–40, August 2023, <https://doi.org/10.1093/af/vfad039>
6. Marcasy P. M., Muliro, P.S., Ngoda, P.N., Ghemoh, C.J., Subramanian, S., Xavier, C., Ochieng, B., Ekese S., Tanga C.M., *Unravelling the nutritional and health benefits of wheat bread enriched with meat powder from laying hen fed diet with insect (Hermetia illucens) meal*, Heliyon, Vol. 9, Issue 10, October 2023, <https://doi.org/10.1016/j.heliyon.2023.e20506>
7. Ouma, L.O., Muthomi, J.W., Kimenju, J.W., Beesigamukama D., Subramanian S., Khamis F.M., Tanga C.M., *Occurrence and management of two emerging soil-dwelling pests ravaging cabbage and onions in Kenya*, Scientific Reports, Vol. 13, Article number 18975, November 2023, <https://doi.org/10.1038/s41598-023-46190-0>
8. Gómez-Brandón M., Beesigamukama D., Probst M., Klammsteiner T., Tanga C.M., *Garden fruit chafer (Pachnoda sinuata L.) accelerates recycling and bioremediation of animal waste*, Elsevier Waste Management, Vol. 173, pp.131-140, Jan. 2024, <https://doi.org/10.1016/j.wasman.2023.11.019>
9. Munguti J., Wekesa F., Osuga I., Kariuki M., Yossa R., Mungai D., Kyule D., Abwao J., Tanga C.M., *Utilization of Black Soldier Fly (Hermetia illucens) Larvae as a Potential Substitute for Fish Meal in the Production of Nile Tilapia (Oreochromis niloticus L.)*, Sustainable Agriculture Research, Vol. 13, Issue 1, January 2024, <https://doi.org/10.5539/sar.v13n1p40>

10. Tanga, C. M., Ekesi, S., *Dietary and therapeutic benefits of edible insects: A global perspective*, Annual Review of Entomology, Vol. 69, Pages 303-331, January 2024, <https://doi.org/10.1146/annurev-ento-020123-013621>
11. Wamai L.K., Munga L.M., Osuga I.M., Munguti J.M., Subramanian S., Kidoido M.K., Ghemoh J.C., Mwendia C.M., Tanga C.M., *Big opportunities for tiny bugs: rush to boost laying hen performance using black soldier fly larvae meal*, Oxford Academic, Journal of Economic Entomology, Vol. 117, Issue 1, February 2024, <https://doi.org/10.1093/jee/toad230>
12. Achuoth M. P., Mudalungu C. M., Ochieng B. O., Mokaya H. O., Kibet S., Maharaj V. J., Subramanian S., Kelemu S., Tanga C. M., *Unlocking the potential of substrate quality for the enhanced antibacterial activity of black soldier fly against pathogens*, ACS Omega, Vol. 9, Issue 7, February 2024 <https://doi.org/10.1021/acsomega.3c09741>
13. Anedo E.O., Beesigamukama D., Mochoge B., Korir N.K., Haukeland S., Cheseto X., Subramanian S., Kelemu S., Tanga C.M., *Evolving dynamics of insect frass fertilizer for sustainable nematode management and potato production*, Frontiers in Plant Science, Vol. 15, February 2024 <https://doi.org/10.3389/fpls.2024.1343038>
14. Kisaakye J., Beesigamukama D., Haukeland S., Subramanian S., Thiongo P.K., Kelemu S., Tanga C.M., *Chitin-enriched insect frass fertilizer as a biorational alternative for root-knot nematode (*Meloidogyne incognita*) management*, Frontiers in Plant Science, Vol. 15, March 2024, <https://doi.org/10.3389/fpls.2024.1361739>
15. Katchali M., Senagi K., Richard E., Beesigamukama D., Tanga C.M., Athanasiou G., Zahariadis T., Casciano D., Lazarou A., *Unveiling Environmental Influences on Sustainable Fertilizer Production through Insect Farming*, MDPI Sustainability, Vol. 16, Issue 9, April 2024, <https://doi.org/10.3390/su16093746>
16. Kibet S., Kimani N.M., Mwanza S.S., Mudalungu C.M., Santos C.B.R., Tanga C.M., *Unveiling the Potential of Ent-Kaurane Diterpenoids: Multifaceted Natural Products for Drug Discovery*, MDPI Pharmaceuticals, Vol. 17, Issue 4, April 2024, <https://doi.org/10.3390/ph17040510>
17. Kyalo H., Tonnang H.E.Z., Egonyu J.P., Olukuru J., Tanga C.M., Senagi K., *A convolutional neural network with image and numerical data to improve farming of edible crickets as a source of food—A decision support system*, Frontiers in Artificial Intelligence, Vol. 7, May 2024, <https://doi.org/10.3389/frai.2024.1403593>
18. Kariuki M.W., Barwani D.K., Mwashii V., Kioko J.K., Munguti J.M., Tanga C.M., Kiiru P., Gicheha M.G., I.M., *Partial Replacement of Fishmeal with Black Soldier Fly Larvae Meal in Nile Tilapia Diets Improves Performance and Profitability in Earthen Pond*, Scientific African, Vol. 24, June 2024 <https://doi.org/10.1016/j.sciaf.2024.e02222>
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7. Kassie M., Abro Z., Tanga C.M., Sevgan S., *Socioeconomic and ecological impact of insect farming in sub-Saharan Africa*, INSECTA 2023 International Conference, Leibniz Institute for Agricultural Engineering and Bioeconomy e.V. (ATB), Book of abstract, September 2023
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15. T. Odedeyi, "Dual-Pin Impedance Probe for Crop Quality Estimation Using the RF Return Loss Method," 2024 IEEE 2nd Conference on AgriFood Electronics (CAFE), Xanthi, Greece, September 2024.
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### 5.13. Datasets

NESTLER released and made publicly available a significant number of datasets through the project website and Zenodo, ensuring access for both the wider public and the scientific community.

#### 5.13.1. Wild Animal Recognition Video Dataset<sup>11</sup>

This Data set contains videos of four animal classes, namely Foxes, Jackals, Ravens and Vultures, captured at RAKOVO, Silven region, Bulgaria. The dataset also contains videos of 12 classes of wild animals that can be found in Africa. Namely, the 12 classes are Baboons, Buffaloes, Elephant, Giraffes, Gorillas, Hippopotamus, Impala, Lions, Rhinocerus, Topi, Warthog, Zebra, captured at Rwanda and Uganda. The folder "Elephants-Gorillas-Kobs\_Detection\_Dataset" contains the extracted frames which are accompanied by their respective bounding box annotations making this part of the dataset suitable for detection tasks. The videos were captured in Uganda at different periods of 2025 (January, February, June) using a HD camera (1920×1080) from CTPH.

#### 5.13.2. Poultry Video Dataset<sup>12</sup>

The dataset contains several videos of poultry while eating, drinking water and moving around into their hen house. The videos were captured using RGB cameras which were fixed and mounted in a way to stand over the poultry.

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<sup>11</sup> <https://zenodo.org/records/15804949>

<sup>12</sup> <https://zenodo.org/records/15063494>

## 5.14. Report release

NESTLER published a report titled *“One Health Zoonotic Disease Analytical Report and Predictive Risk Model”*<sup>13</sup>, which was made available to both the scientific community and relevant stakeholders. The report presents an integrated One Health analysis of zoonotic disease dynamics at the wildlife–livestock–human interface in southwestern Uganda. Developed within the framework of the NESTLER pilot activities, the study aimed to strengthen disease surveillance and support food security through evidence-based approaches. It combined data from multiple phases, including vector surveillance, environmental reservoirs, and observations across livestock, poultry, and wildlife, alongside existing monitoring systems. By bringing these data sources together, the report provides a comprehensive overview of cross-species transmission patterns, environmental risk factors, and predictive disease trends, supporting more informed decision-making in One Health contexts.

## 5.15. Public Deliverables

Public deliverables and other project results are available for download on the official NESTLER website<sup>14</sup>.

- D1.1 NESTLER platform requirements
- D1.2 – EU-African food security roadmap
- D2.2 Practice Abstracts - Batch 1
- D2.4 – Policy recommendation on insect production technology and capacity Building
- D3.1 Remote sensing technologies and multi-modal data aggregation protocols
- D3.2 – NESTLER implementation of data aggregation protocols and AI Algorithms
- D4.1 Initial NESTLER backend implementation of AI algorithms
- D4.2 – NESTLER frontend implementation of GIS services
- D4.3 – NESTLER backend implementation of AI algorithms and agricultural Services
- D4.4 – NESTLER integrated platform release
- D5.2 – Evaluation of NESTLER 1st phase platform
- D5.4 – Practice Abstracts – Batch 2
- D5.5 – Evaluation of NESTLER 2nd phase platform
- D6.1 Project website & social networks
- D6.2 NESTLER dissemination and communication activities plan
- D6.3 Initial NESTLER dissemination and communication activities
- D6.4 – NESTLER Dissemination and Communication activities
- D7.2 Data management plan
- D7.3 Data management plan – update
- D7.4 – Final Data Management Plan

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<sup>13</sup> <https://drive.google.com/file/d/1QBMdhEbUYTtuwRmqWvEUCtrUWR9b7YHC/view?pli=1>

<sup>14</sup> <https://nestler-project.eu/index.php/deliverable/>

## 5.16. White Papers and Policy-Oriented Outputs

As part of its dissemination activities, the NESTLER project produced two complementary white papers that translate project results into actionable insights for policymakers, researchers, and industry stakeholders. Together, they bridge scientific innovation with policy uptake, supporting the transition to sustainable and digital agri-food systems.

### 5.16.1. White Paper on Policy Recommendations for Sustainable and Digital Agri-Food Systems

This white paper provides a targeted policy roadmap for scaling sustainable and digital agriculture solutions demonstrated within NESTLER. It highlights that the main challenge is no longer technological maturity, but the lack of enabling conditions for adoption. The document identifies key priorities, including regulatory harmonisation, improved access to finance, stronger digital and physical infrastructure, and the integration of waste management into circular agricultural systems. It also emphasises the importance of market creation mechanisms and capacity building to support farmers and SMEs. The white paper translates project evidence into practical, system-level policy recommendations, aligned with EU and African strategic frameworks.

### 5.16.2. White Paper on the Consolidation of Scientific and Technical Innovation of NESTLER

This white paper consolidates the core scientific and technological achievements of NESTLER, presenting an integrated framework that combines digital technologies, AI, and circular bioeconomy solutions under the One Health approach. At its core is the NESTLER platform, which integrates data from IoT, satellite, and UAV sources to enable real-time monitoring and predictive decision-making. The document also highlights key innovations such as AI-driven early warning systems, federated learning, and insect-based circular production models. Validated through pilot deployments, these innovations demonstrate strong technical performance, economic viability, and scalability across diverse contexts.

Together, the two white papers provide a coherent foundation for both innovation uptake and policy action. They position NESTLER as a practical and scalable model for advancing sustainable, data-driven agri-food systems within the EU–Africa partnership.

## 6. Communities Liaison

This section outlines the liaison activities undertaken to sustain and enhance the impact of the project's results and outcomes. Dissemination efforts focused on effectively communicating results, raising awareness of the project, and fostering a strong network and stakeholder interest in NESTLER. Building a strong and engaged community is essential to ensuring the project's long-term sustainability and impact. Accordingly, this section presents the key actions implemented to support this objective.

### 6.1. Memorandum of Understanding (MoU) between NESTLER and the INCiTIS-FOOD Project

Within the framework of strengthening collaboration and maximising project impact, NESTLER established a Memorandum of Understanding (MoU) with the INCiTIS-FOOD project. The primary objective of this collaboration was to enhance the visibility, outreach, and overall impact of both initiatives through coordinated activities and knowledge exchange.

The partnership was built on strong thematic and operational synergies. Both projects implemented pilot activities across African countries and shared a common research focus on sustainable agri-food systems, including innovations in insect farming and circular bioeconomy approaches. This alignment created clear opportunities for joint dissemination, exchange of best practices, and potential technical collaboration.

Through this MoU, the two projects fostered closer cooperation, supported mutual learning, and amplified their respective results beyond individual project boundaries. Overall, the agreement laid a solid foundation for a mutually beneficial partnership, contributing to increased innovation capacity and broader impact in the field of sustainable and resilient agri-food systems.

### 6.2. Cross-collaboration among EU-funded initiatives

#### 6.2.1. 1st One-Health Agri-Tech Workshop

Within the context of the 1st One Health Agri-Tech Workshop, organised by NESTLER and held in Greece on 27 May 2025, the event functioned as a dynamic platform for fostering cooperation and knowledge exchange among sister projects operating within the EU–Africa innovation ecosystem. The event focused on advancing the EU–Africa One Health agenda by showcasing innovative technological solutions addressing key challenges in the agri-food sector. Core topics included zoonotic disease monitoring, soil health improvement, food safety and security, and the promotion of sustainable and resilient agricultural practices. The event facilitated active engagement with other EU-funded projects, including **AGRIDATAVALUE** and **GEORGIA**, enabling the identification of synergies, exchange of best practices, and exploration of future collaboration opportunities. Bringing together researchers, industry representatives, and policymakers, the workshop created a collaborative environment for discussing cutting-edge agri-tech solutions aligned with the Farm to Fork Strategy of the European Green Deal.

### 6.3. AgriDataValue

AgriDataValue<sup>15</sup> (Grant Agreement No. 101086461) was designed to act as a “game changer” in the digital transformation of smart farming and agri-environmental monitoring. Its main objective was to enhance farming capacities, competitiveness, and fair income by developing an innovative, open-source, and fully distributed Agri-Environment Data Space (ADS) based on intelligent, multi-technology solutions. The project followed a multidimensional approach, combining advanced big data and data space technologies (such as BDVA, IDSA, and GAIA-X) with agricultural expertise, new business models, and policy considerations. It built on existing platforms and infrastructures, including edge computing and digital services, while introducing new tools, methods, pilot activities, and stakeholder engagement actions to drive innovation in the use of real-time agricultural data. Through the integration of remote sensing technologies, AgriDataValue contributed to strengthening smart farming practices and promoting more sustainable agriculture. In this context, NESTLER benefited from AgriDataValue’s experience, particularly by leveraging its best practices and lessons learned in the application of remote sensing technologies in agriculture.

### 6.4. WATSON

WATSON<sup>16</sup> (HORIZON-CL6-2022-FARM2FORK-01) applied an intelligence-driven risk assessment approach to address food fraud in a comprehensive and integrated manner. The project was structured around three main pillars: (i) identifying data gaps across the food supply chain, (ii) developing methods, tools, and processes to detect and prevent fraudulent activities, and (iii) strengthening cross-border cooperation among public authorities through reliable and transparent information exchange. To achieve these objectives, WATSON leveraged emerging technologies such as artificial intelligence (AI), the Internet of Things (IoT), and distributed ledger technologies (DLT), enabling greater transparency and traceability within supply chains. It also introduced innovative tools for rapid, non-invasive, and on-site analysis of food products. Within this context, NESTLER collaborated closely with WATSON, benefiting from its best practices in secure supply chain management, as well as from the knowledge and lessons learned throughout the project.

### 6.5. GEORGIA

GEORGIA<sup>17</sup> (Grant Agreement No. 101181572) focused on transforming water management and soil health challenges into opportunities for sustainable growth and innovation. The project investigated both the drivers and barriers associated with advanced irrigation solutions, including the environmentally responsible reuse of sewage sludge and biowaste, the use of water-absorbing geocomposites, and approaches addressing both water scarcity and abundance. At the same time, GEORGIA promoted the optimal deployment of these solutions through localised modelling and the application of Artificial Intelligence. To support this, the project developed integrated monitoring systems combining in-situ sensors, drone-based observations, and geospatial data, alongside an explainable AI decision-support system and Crop Digital Twins. These technologies were tested and validated across multiple scales, from individual farms to wider regional and catchment levels. The

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<sup>15</sup> <https://agridatavalue.eu/>

<sup>16</sup> <https://watsonproject.eu/>

<sup>17</sup> <https://georgia-horizon.eu/>

project covered a wide range of crops, production systems (including conventional, intensive, agroecological, and organic), and diverse geographical regions across Europe. It also leveraged extensive data collection from farms across Southern to Northeastern Europe, as well as access to large-scale facilities such as advanced biological treatment plants, private farms, and pilot locations including Santorini and other Greek regions. Within this context, NESTLER collaborated closely with GEORGIA, benefiting from its best practices and lessons learned in sustainable water management and digital agriculture.

## 6.6. CEADs

CEADS<sup>18</sup> (Grant Agreement No. 101195295) is implementing the Common European Agricultural Data Space, providing a secure, reliable, and interoperable framework for data sharing across the European agri-food sector. The initiative supports improved economic performance, environmental sustainability, and societal value, while ensuring compliance with high standards of privacy, security, and ethics. By unlocking the value of agricultural data, CEADS contributes to the digital transformation of the sector. It is aligned with key EU policies, including the European Green Deal, the Data Act, the Data Governance Act, and the Common Agricultural Policy, promoting fair and secure data exchange among stakeholders. In doing so, it enables farmers, policymakers, researchers, and businesses to drive innovation, enhance competitiveness, and support sustainable agricultural practices. Within this context, NESTLER benefited from CEADS' best practices and the lessons learned throughout its implementation.

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<sup>18</sup> <https://ceads.eu/>

## 7. Contribution to standards

NESTLER contributed for the standardization realm through 2 contributions. ICIPE and EIAR in partnership with Ethiopian regulatory authorities established the Ethiopian Standards:

- *ES 7015:2023 - Dried insect products in animal feeds-Specifications*
- *ES 7016:2023 - Dried insect products as proteins in animal feeds – Guidelines/code of practice.*

Moreover, a policy paper was developed and presented in an Online summit with the Deputy-Secretary General of the United Nation. In June 2023, an engagement partnership between ICIPE, the African Organisation for Standardisation (ARSO) and the United Nations Economic Commission for Africa (UNECA) was formed with a mandate to establish African standards of interest to intra-African and global trade and to operate a continental conformity assessment system with a view to promoting African products.

Based on the approved standards, insects and insect-based products for either food or feed are currently being certified by Kenya Bureau of Standards (KEBS), Kenya's regulatory industry standard since 2023

## 8. Conclusion

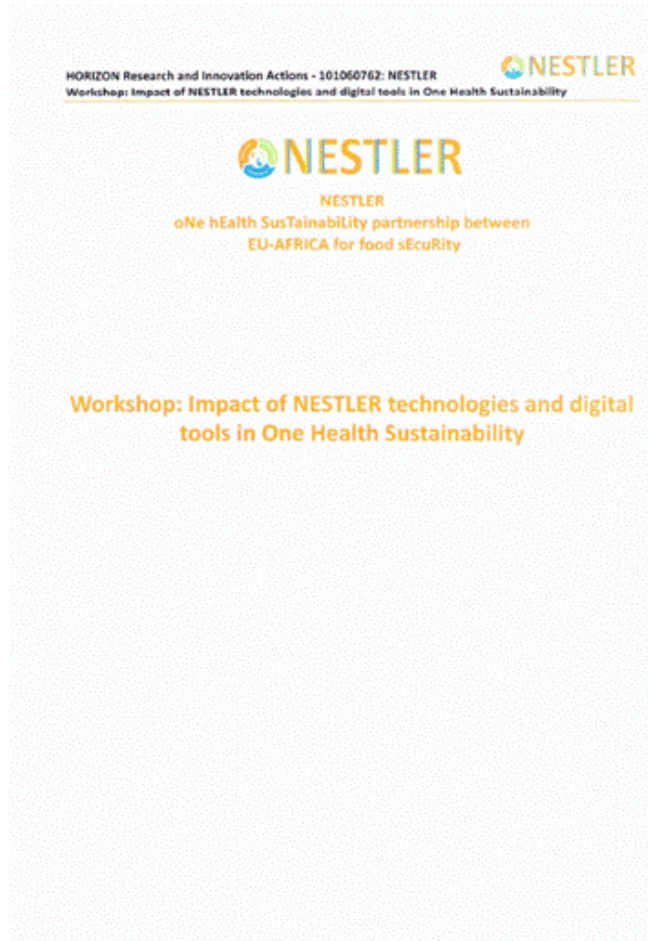
The Dissemination and Communication activities formed the foundation for maximising NESTLER's impact on the scientific community and key stakeholders, ensuring strong visibility and encouraging adoption of project results. Designed as a living framework, the strategy was regularly updated to reflect project progress and to leverage new networking and collaboration opportunities. Successfully implemented throughout the project lifecycle, these activities supported NESTLER's scientific, technological, and policy objectives. Through a structured and phased approach, the consortium maintained continuous visibility and engagement across Europe and Africa. Publications, conferences, workshops, exhibitions, collaborations, and digital platforms collectively strengthened outreach, stakeholder interaction, and overall project awareness.

## 9. ANNEX 1: NESTLER Workshop

No.	Participant	Affiliation	Attendance	
				26/09
1	Adamou Nchange Kouotou	AGRI	Virtual	✓
2	Dorothee Mvondo Nganti	AGRI	Virtual	✓
3	Dimitris Sykas	CEO	Virtual	✓
4	Alkyoni Baglatzi	CEO	Virtual	✓
5	Georgia Pantelide	EBOS	Virtual	✓
6	Fekede Feyissa	EIAR	Virtual	✓
7	Etalem Tesafye	EIAR	Virtual	✓
8	Chrysantus Tanga	ICIPE	Physical	✓
9	Ssali Ogwal	CTPH	Physical	✓
10	Eniola Fabusoro	IDH	Physical	✓
11	Cyril Ugwu	IDH	Physical	✓
12	Nyabinwa Pascal	RAB	Virtual	✓
13	Ismail Rabbi	IITA	Physical	✓
14	Denis Kolev	RINI	Virtual	✓
15	Vladislava Vasilyanskaya	RINI	Virtual	✓
16	Natalia Polushkina	RINI	Virtual	✓
17	Apostolos Skias	SYN	Virtual	✓
18	Konstantinos Pramataris	SYN	Virtual	✓
19	Aikaterini Papadopoulou	SYN	Physical	✓
20	Theodoros Zachariadis	SYN	Virtual	✓
21	Stavroula Bourou	SYN	Physical	✓
22	Temitope Odedeyi	UCL	Virtual	✓
23	Izzat Darwazeh	UCL	Virtual	✓
24	Domenica Casciano	Z&P	Virtual	✓

25	Alexandre Lazarou	Z&P	Virtual	✓
26	Alice Barlow	MANA	Virtual	✓
27	Nicholas Ndekei	Zihanga Ltd	Physical	✓
28	Margaret Kababu	ICIPE	Physical	✓
29	Kenedy Deragi	ICIPE	Physical	✓
30	Xavier Lheseto	ICIPE	Physical	✓
31	Peter Kiiru	JKUAT	Physical	✓
32	Isaac Osuga	JKUAT	Physical	✓
33	Jogn Rivise	ICIPE	Physical	✓
34	Jonathan Mungui	XMFRI	Physical	✓
35	Fathiya Khanis	ICIPE	Physical	✓
36	Inusa Ajene	ICIPE	Physical	✓

**HORIZON Research and Innovation Actions - 101060762: NESTLER**  
**Deliverable D6.4: NESTLER dissemination and communication activities**




HORIZON Research and Innovation Actions - 101060762: NESTLER  
 Workshop: Impact of NESTLER technologies and digital tools in One Health Sustainability

**List of attendees**

Sl. No	Full Name	Profession	Department/Company	Country
1	Akateru	Participant	SynGene	Kenya
2	Stavroula	Researcher	SynGene	Greece
3	Nicholas	Director	Zingon Ltd	Kenya
4	Pragati	Researcher	ICPE	Kenya
5	Bashir	Researcher	ICPE	Nigeria
6	Cybil	Specialist	IDH	Nigeria
7	Emmanuel	Senior Analyst	IDH	Nigeria
8	Jitai	Health Specialist	ICPE	Kenya
9	CHRISTINE	Senior Analyst	ICPE	Kenya
10	Kuray	Researcher	ICPE	Kenya
11	James	Researcher	ICPE	Kenya
12	Peter	Researcher	JICA	Kenya
13	Esme	Researcher	JICA	Kenya
14	John	Researcher	ICPE	Kenya
15	Justine	Researcher	ICPE	Kenya
16	Faheem	Senior Scientist	ICPE	Kenya
17	Inara	Participant	ICPE	Kenya

## 10. ANNEX 2: NESTLER - First One Health Agri-Tech Workshop

No.	Participant	Affiliation	Attendance			Title of presentation
				27/05	Presenter	
1	Sofia Chandrou	SYN	Physical	✓	No	
2	Temitope Odedeyi	UCL	Physical	✓	Yes	Crop Quality Sensing: Harnessing Electrical Reflection for Smart Agriculture
3	Adeoluwa Oyinlola	UCL	Physical	✓	Yes	Crop Quality Sensing: Harnessing Electrical Reflection for Smart Agriculture
4	Ajay Beniwal	UCL	Physical	✓	Yes	Crop Quality Sensing: Harnessing Electrical Reflection for Smart Agriculture
5	Izzat Darwazeh	UCL	Physical	✓	Yes	Crop Quality Sensing: Harnessing Electrical Reflection for Smart Agriculture
6	Ssali Ronald Ogwal	CTPH	Physical	✓	Yes	Enhancing Food Security and Conservation through One

						Health and Smart Agriculture in Uganda's Protected Areas.
7	Bukenya Kaamu	CTPH	Physical	✓	No	
8	Nnanjii Brenda	CTPH	Physical	✓	No	
9	Aschalew Lakew	EIAR	Virtual	✓	Yes	Black Soldier Fly (Hermetia illucens) Larvae Can Fully Replace Fishmeal as a Source of Protein in the Diet of Nile Tilapia (Oreochromis niloticus): The Untapped Opportunity for Aquaculture Development in Ethiopia
10	Fekede Feyissa	EIAR	Virtual	✓	No	
11	Denis Kolev	RINI	Physical	✓	Yes	Machine learning application to detect artifacts in livestock population behavior.
12	Pascal Nyabinwa	RAB	Virtual	✓	Yes	Unveiling the availability and potential of insects for use as animal feed in Rwanda
13	Beesigamukama, Dennis	ICIPE	Physical	✓	Yes	Insect frass fertilizer innovations for better soil health and agri-food systems transformation in Africa

14	Chrysantus TANGA	ICIPE	Physical	✓	Yes	Insect-based feed recipes for improved nutrition and health of animals in Africa
15	Tchouassi, David Poumo	ICIPE	Physical	✓	Yes	Multi-host surveillance to improve understanding of inter-epidemic maintenance of Rift Valley fever
16	Ioannis Oikonomidis	INTRA	Virtual	✓	No	
17	Gina Athanasiou	SYN	Physical	✓	No	
18	Nikolaos Afratis	NKUA	Physical	✓	Yes	The role of soil microbiome in agri-food system and smart agriculture
19	Georgia Michailidou	RFF	Virtual	✓	No	
20	Titilayo Ayodeji	IDH	Physical	✓	Yes	Stakeholders' Perception and Acceptability of the Cassava Starch Measuring Device
21	Eniola Fabusoro	IDH	Physical	✓	Yes	Stakeholders' Perception and Acceptability of the Cassava Starch Measuring Device
22	Ioannis Chrysakis	INTRA	Physical	✓	No	
23	Merid Getahun	ICIPE	Virtual	✓	Yes	Host-pathogens-vectors interaction and One Health

24	Konstantinos Railis	-	Physical	✓	No	
25	Katerina Kantari	AUA	Physical	✓	Yes	Estimating Pomegranate Fruit Cracking Through Proximal and Aerial Remote sensing
26	Georgia Nikolopoulou	AUA	Physical	✓	No	
27	Tamara Vobruba	ANRI	Virtual	✓	No	
28	Georgia Pantelide	eBOS	Virtual	✓	No	
29	Chantal Smet	SIVE	Virtual	✓	No	
30	Ekaterina Kleshcheva	SIVE	Virtual	✓	No	
31	Panayiotis Klitou	eBOS	Physical	✓	Yes	Bridging the Digital Divide: The XGain Knowledge Facilitation Tool for Rural Connectivity
32	Dimitrios Ladakis	SYN	Physical	✓	Yes	Electrifying Biorefineries: Transforming Lignocellulosic residues into Sustainable Biopolymers as a carrier for the Control Release Fertilizer
33	Kolawole Olalekan	IITA	Virtual	✓	No	

