



Increasing Resilience of Smallholders with Multi-Platforms Linking Localized Resource Sharing

Deliverable D5.3c

*Synthetic Report on 3 years of Smallholder Living-Lab
Piloting Program and Large-scale Evaluation*

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DOCUMENT REVISION HISTORY

Version	Date	Changes
V1.1	Sep. 14 th , 2026	PUBLIC RELEASE
V1.0	Sep. 10 th , 2026	FIRST DRAFT VERSION FOR INTERNAL APPROVAL
V0.1	Sep. 4 th , 2026	FIRST RELEASE FOR REVIEW

EXECUTIVE SUMMARY

This deliverable D5.3c reviews the whole Evaluation Program and Living Lab Program, extending D5.3b that presented the preliminary results on the Living Lab. It describes the implemented planning and the slides prepared for the Final Event that officially ended the Living Lab Program.

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1. INTRODUCTION & SUMMARY OF PLANNING

RESILINK develops a distributed digital resource management platform for real-time exchange of information on territorial resources and supplies & demands; connecting smallholders to new supply, sharing opportunities and distribution channels. RESILINK will develop the RESILINK mobile application that will be the main interface to simply, quickly and intuitively manage resources.

Related main deliverables, most recent documents are listed last:

D2.1b "Final report on user requirements, user interface and co-design of the RESILINK generalized resource sharing digital platform"

<https://resilink.eu/wp-content/uploads/2024/07/D2.1b.pdf>

D5.6a "First report on the large-scale RESILINK mobile app evaluation program"

<https://resilink.eu/wp-content/uploads/2024/07/D5.6a.pdf>

D2.2c "RESILINK resource sharing digital platform – v3"

<https://resilink.eu/wp-content/uploads/2026/04/D2.2c.pdf>

D2.4b "Final report on test & validation of the full RESILINK framework"

<https://resilink.eu/wp-content/uploads/2026/04/D2.4b.pdf>

D5.3b Synthetic Report on 2 years of Smallholder Living-Lab Piloting Program and large-scale evaluation.

<https://resilink.eu/wp-content/uploads/2025/09/D5.3b.pdf>

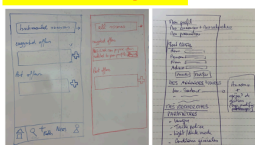
The document summarizes the main steps of the Evaluation Program and the Living-Labs Program of the RESILINK digital platform. **The whole period for these activities are from May 2023 to January 2026.**

Evaluation Program – from May 2023 to Jan. 2025

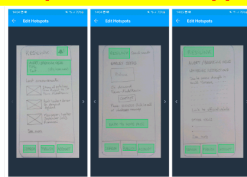
- **Mockup and interviews – from May 2023 to May 2024**

From May 2023: Meetings & design thinking sessions led by Orange have been organized since May 2023 to discuss functionalities, mockups and how to collect & analyse the first feedback.

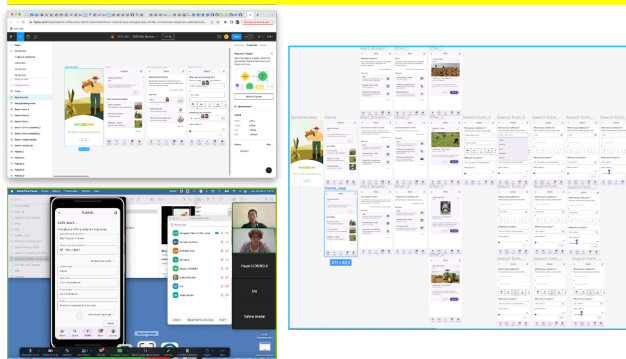
First concepts



First mockup with MarvelApp

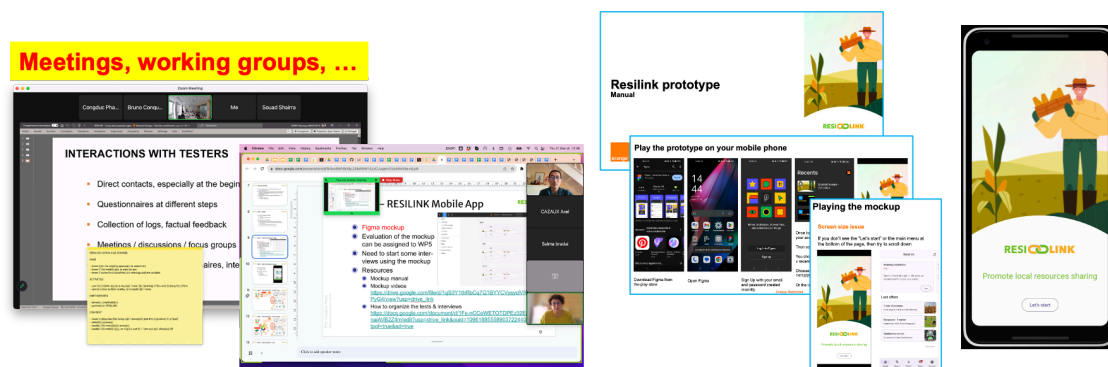


Oct. 2023. Design of an elaborated mockup with Figma



Then, several interview sessions with smallholder farmers have been planned and various documents have been prepared.

- A video playing the mockup
<https://resilink.eu/wp-content/uploads/2024/05/resilink-new-mockup.mov>
- A manual explaining how to use the mockup
<https://resilink.eu/wp-content/uploads/2024/05/resilink-new-mockup-manual.pdf>
- A document describing how to conduct the interviews with the mockup
<https://resilink.eu/wp-content/uploads/2024/05/RESILINK-How-to-organize-tests-of-the-mockup.pdf>

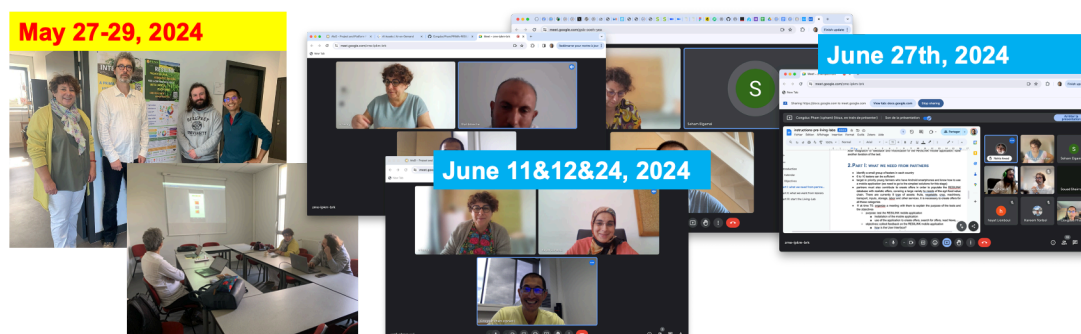


Then, from January 2024 to May 2024 in Algeria, Egypt and Morocco, the interviews were conducted, mobilizing a large staff from partners.

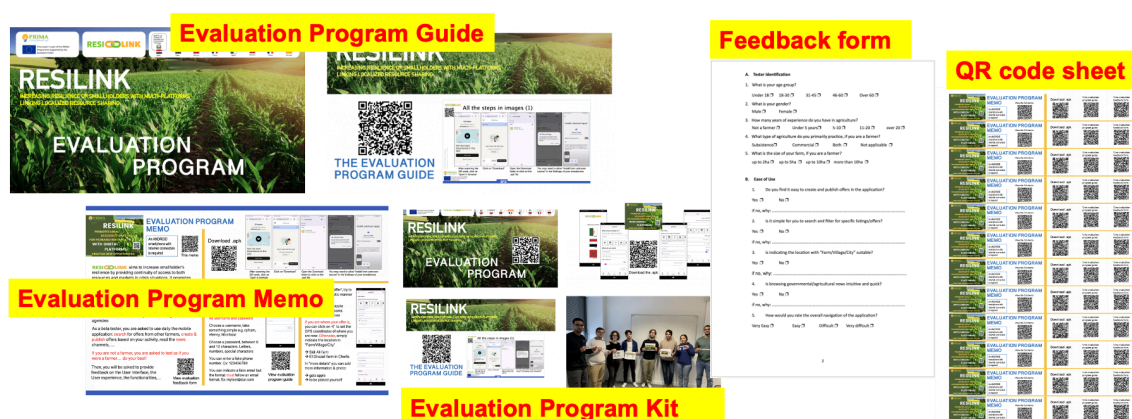


● Preparation of the Evaluation Program – from May 2024 to Aug. 2024

Starting from May 2024, the whole RESILINK team prepared the Evaluation Program of the RESILINK framework: both the functionalities of the RESILINK digital platform and the User Interface/User Experience of the RESILINK mobile application. **Several meetings have been organized with partners to launch the Evaluation Program: Morocco partner: 11/06/2024; Algerian partner: 12/06/2024; Egyptian partner: 24/06/2024.**



Various documents have been produced to support the Evaluation Program. They are all available on the project web site in the Piloting section: <https://resilink.eu/piloting>



- **Internal tests – from Sep. 2024 to Nov. 2024:** the RESILINK mobile application will first be internally tested by partners. RESILINK partners provided feedback to track bugs and improve the mobile application – test accounts were created.

1.1. JUPPA

- in "home" menu, "suggested offer" → "Suggested offer" Done
- in "search" menu, "Write your request" → "keyword" ? Done
- in "news", → "List of news sources" Done? I'm not sure what it is
- what is the unit of quantity? Maybe we should always put the quantity like "200kg of potatoes"? Do we remove the quantity? No everyone
- in the "Last offers" section maybe it is better to be able to scroll. For the scroll, we had said via a technical meeting that the only offers would be the search page, putting a scroll is very simple, seen how many offers we put in this scroll (all the offers or interface to add a "see more" button and display all the latest result page?
- after selecting an asset type (in "search" menu for instance), select/change to another asset type, one must click again on the to enable selection of another asset type. This is not the case for where clicking on another asset type automatically enables the asset types. Done
- the section "suggested for you" shows your own offers. This should be Done
- maybe have the possibility to remove an offer from the "suggested" Done
- it seems that you can purchase your own offers. This should not be production, Done.
- when clicking on your published offers, there should be a cancel modify and delete? Done

1.3. ARC

1. User Interface and User Experience (UI/UX)
The user interface of the Resilink application is consistent and visually makes the user experience comfortable.

2. Performance and Speed:
The application's performance is good, with ensuring a smooth experience even under varying conditions.

3. Reliability and Stability:
While the application is relatively stable, there are occasional crashes or sudden malfunctions. These problems remain reliable for farmers at all times.

4. Application Functions:
The application's functions require additional basic features of connecting farmers with market promotional offers, purchase requests, company advertisements, and price comparisons. These features should be added to make the app more functionally complete.

1.4. INRA

- 1/ On the main page "Home", Done
 - Replace : "المزاد" "Home"
 - "المزاد" "الفرنسية"
- 2/ In "Search", Done except for new AssetType
 - Replace : "المحاصيل" "Crop"
 - "المحاصيل" "الحبوب"
 - Replace : "المكينات" "Machinery"
 - "المكينات" "الإلات الزراعية"
 - Replace : "المدخلات" "Inputs"
 - "المدخلات" "الإلات الزراعية"
 - Add a new category: "Seeds" "البذور"
- When clicking on some icons, the full text is expected behavior, I didn't think it was very nice to reduce the size of the text to make it fit.

1.5. ORANGE

PUBLISH:

- There's an issue with the "Add picture" feature, whether selecting from the phone gallery or elsewhere: the "Choose your option" popup remains open, and you have to click outside it to close it. Done

SEARCH:

- Clicking on "Purchase" opens the Account screen. Is this normal? Yes, it's normal behavior.
- If no items are found for a search, there should be a message like, "There's no offer available, try again later!" Done

NEWS:

- I selected 2 sources, and a popup appears: "Problems in adding to your favorites the news – The connection didn't work properly." In my case, it's fixed but I'll try with less connectivity.
- You can check a source but can't uncheck it (you have to go to the home screen and use the red trash icon). Normal behavior: News added by the user is managed on the home page, with the possibility of adding the news section to the profile page for a better view of the news.
- On the home screen, when you have multiple sources and delete one, all of them disappear. You need to switch to another screen and come back to the home screen to see the ones you didn't delete. Fixed

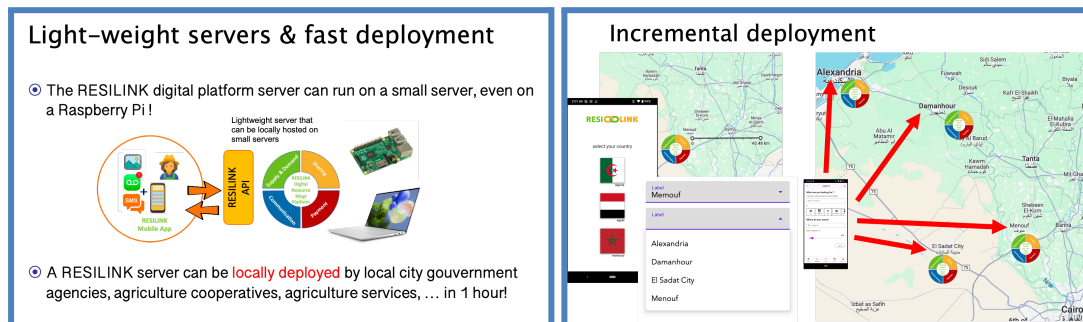
- **External tests – from Nov. 2024 to Jan. 2025:** partners in Algeria, Egypt & Morocco devoted a lot of efforts to reach smallholders, conduct interviews, organize workshops, raise awareness, collect feedback, discuss with stakeholders, increase trust, ...



- In addition to the preparation of the Evaluation Program, we also produced several technical and guideline documents, having in mind the next steps with capacity-building activities to demonstrate the platform-of-platforms approach.



- **Behind the scene**, the RESILINK digital platform was continuously improved and its architecture designed to support all the functionalities that would make RESILINK an innovative approach:
 - Light-weight server to be easily replicated for a geographical scope
 - Open API
 - Incremental deployment and automatic server discovery
 - Platform-of-Platforms with interoperability between platforms



The results from the Evaluation Program can be found in:

- D5.3b Synthetic Report on 2 years of Smallholder Living-Lab Piloting Program and large-scale evaluation.
<https://resilink.eu/wp-content/uploads/2025/09/D5.3b.pdf>

Living Lab Program – from Jan. 2025 to Jan. 2026

- **Preparation of the Living-Lab Piloting Program:** 2 preparatory meetings have been organized with partners in order to carefully plan the Living-Lab Piloting Program, the expected results and how to collect feedback.

Title	Date	Subject	Participants
TM-PRE-LIVING-LAB -JAN-25	23/01/25	Preparation of the Living-Lab	UPPA, ORANGE
TM-PRE-LIVING-LAB -FEB-25	20/02/25	Preparation of the Living-Lab	ALL

Several training and presentation materials have been produced to run the Living-Lab Piloting Program as well as News/Posts on the web site.

LIVING-LAB MEMO

An ANDROID smartphone with internet connection is necessary to use the mobile application

RESILINK aims to increase smallholder's resilience by providing continuity of access to both resources and markets in crisis situations. It promotes localized usage of resources

The RESILINK mobile application will allow you to **publish & search for resources**

It connects smallholders to new supply, sharing opportunities & distribution channels, keeping you informed of **news/alarms/regulations** from government agencies

As a beta tester, you are asked to use daily the mobile application: **search** for offers from other farmers, **create & publish** offers based on your activity, read the **news** channels, ...

If you are not a farmer, you are asked to test as if you were a farmer... **do your best!**

Then, you will be asked to provide feedback on the User Interface, the User experience, the functionalities, ...

Download app (.apk package)

View evaluation feedback form

After scanning the QR code, click on "open in browser". Then click on "Download"

Open the Download folder to click on the .apk file. You may need to allow "install from unknown source" in the Settings of your smartphone

Without an account, you can only view & search for offers

With an account you can publish offers and get access to all functionalities

Latin alphabet MUST BE used for username and password

Choose a simple username, ex: tdupont, abenghazi, mmaloul, ...

Choose a password, between 8 and 12 characters. Letters, numbers, special characters

You can enter a fake phone number: 123456789. But if you want to use WhatsApp for contact it is better to use your real phone number

You can indicate a fake email but the format **must** follow an email format. Ex: mytest@star.com

In the News section of the web site: <https://resilink.eu/news>

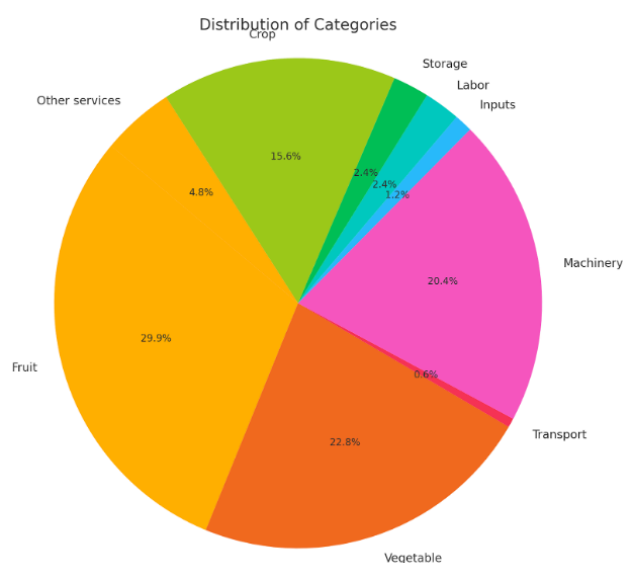
Feb. 24th, 2025. The RESILINK Mobile App and the RESILINK Digital Platform Server is ready for the Living-Lab Evaluation Program. Both the mobile application and the digital platform server developed by UPPA are much more robust and faster to support a larger number of users. Arabic translation has also been improved and a larger selection of news & information sources have been listed for users to bookmark them. Partners in Algeria, Egypt and Morocco are ready to launch the Living Lab program with their farmers & stakeholders partners.

- **Launching Living-Lab Piloting Program in Mar. 2025**

With feedback and synthesis from the Evaluation Program, RESILINK launched the Living-Lab Piloting Program in March 2025

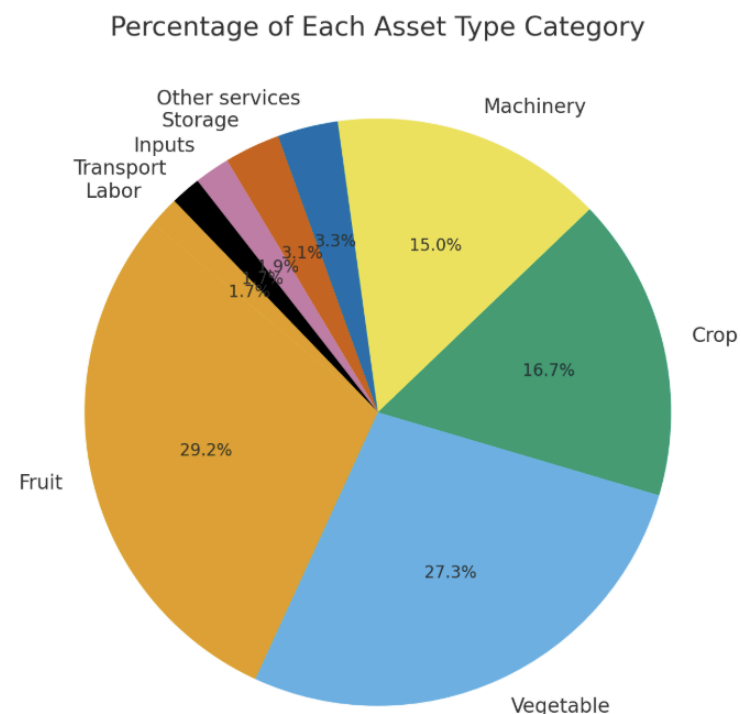


- **Creation of offers:** On the date of Apr. 28th, and from March 1st, we had 168 offers from 20 users for the initiation of the Living-Lab Piloting Program.



RESILINK partners also contributed by creating and posting offers to provide a consistent database of offers for participants to fully test the RESILINK functionalities.

During the summer break of 2025, the Living-Lab piloting is continuing with more than 360 offers from March 1st, 2025 to September 1st, 2025.



2. LAST YEAR OF THE LIVING LAB PROGRAM

2.1. Resources & Documents

We produced various dissemination materials to present the RESILINK project's objectives and innovations as well as explaining how interested persons can help testing and providing feedback.

- **RESILINK: Objectives and Innovations**, which has been customized for each country (Algeria, Egypt, Morocco)

<https://resilink.eu/wp-content/uploads/2025/10/RESILINK-presentation-algeria.pdf>

<https://resilink.eu/wp-content/uploads/2025/10/RESILINK-presentation-egypt.pdf>

<https://resilink.eu/wp-content/uploads/2025/10/RESILINK-presentation-morocco.pdf>

The Egyptian presentation is also available in video format

<https://resilink.eu/wp-content/uploads/2025/10/RESILINK-presentation-animated.mov>



- **RESILINK: the Innovations Behind the App**

<https://resilink.eu/wp-content/uploads/2025/11/RESILINK-dissemination.pdf>





THE INNOVATIONS BEHIND THE APP!

- Develop lightweight Digital Platforms that can be quickly & locally deployed
- Digital Platforms can be incrementally deployed for various geographical areas
- Open API will enable Platform-of-Platforms approach to extend the ecosystem

5/12 APP-NEW_APP

RESILINK MOBILE APP ON GOOGLE PLAY

INSTALL THE APP
CREATE AN ACCOUNT
AND START PUBLISHING OFFERS
TO CREATE A COMMUNITY

FLASH TO INSTALL

9/12

ACT AS A FARMER!

Select a participating country (Algeria, Egypt or Morocco)

Act as a farmer and indicate your main activity

Then publish offers and search for offers according to your activity

10/12

In order to reach more farmers and have continuous and updated feedback, the Living Lab program actually implemented several test sessions from 2 weeks to 3 months. In each sessions, between 3 and 8 new participants were enrolled.

RESILINK

INCREASING RESILIENCE OF SMALLHOLDERS WITH MULTI-PLATFORMS LINKING LOCALIZED RESOURCE SHARING

HOME OBJECTIVES CONCEPTS CONSORTIUM **PILOTING** RESULTS DOCUMENTS NEWS LINKS CONTACT

Mar. 31st, 2026. For the Final Event in Egypt, we summarized all the activities in the Living-Labs program and acknowledged the engagements of farmers, stakeholders, collaborators, etc. without whom nothing would have been possible!

Living-Labs in 3 countries!

- Algeria, Egypt & Morocco
- An extension of the Evaluation Program
- 1 year Living-Labs participatory program, Jan. 25 to Jan. 26
- Several sessions with farmers, from 2 weeks to 3 months
- +130 farmers, +25 stakeholders & decision-makers
- Mobilized +45 academic, staff and collaborators!

Living-Lab piloting and large-scale evaluation program WP5

Recent Posts

Dissemination & Acknowledgment at the Final Event in Morocco!

To come: RESILINK Final Event in Morocco!

Screenshots of the RESILINK Mobile App

Dissemination & Acknowledgment at the Final Event in Egypt!

2 new scientific articles inspired by RESILINK's participatory approach in Living Labs!

2.2. Final Events

2.2.1. Summary of Final Events

The organization of the final events in Egypt and Morocco to present the main results and the Living Lab program was the highlight of this last year, ending also the Living Lab Program.

The first RESILINK's Final Event in Egypt took place at AASTMT's campus in Alexandria, as part of the HOPE26 workshop held in hybrid mode. The event has been organized by AASTMT partner and was a great opportunity for the whole RESILINK consortium to acknowledge the participation and the engagement of farmers in the Evaluation Program and the Living-Lab program run by RESILINK.

<https://resilink.eu/dissemination-acknowledgment-at-the-final-event-in-egypt>







Can We Rethink Resources Through a Circular Economy?



HOPE26

HEALING OUR PLANET'S ENVIRONMENT 2026

The Circular Bioeconomy and Sustainable Food Systems



PROF. BEHNAM TAIDI
PROFESSOR OF INDUSTRIAL BIOTECHNOLOGY




MR. KRIS HEIRBAUT
HEIRBAUT AGRICULTURE




PROF. ALLA SILKINA
SENIOR RESEARCHER AND
PROJECT LEADER IN ALGAL BIOTECHNOLOGY




PROF. MOHAMED BOUAZIZ
DIRECTOR OF STUDIES
MEMBER OF THE SCIENTIFIC COUNCIL


Advancing Circular and Digital Solutions for Agriculture and Energy: Lessons from EU Collaborative Projects



PROF. MOHSEN ASSADI
PROFESSOR IN ENERGY TECHNOLOGY,
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PROF. RASHA ABDELAZIZ
PROFESSOR OF INFORMATION SYSTEMS
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HEAD OF THE BUSINESS INNOVATION
SYSTEMS DEPARTMENT




MR. MARK FREDERIK
FOUNDER OF AMPED & LOCALLOCAL,
SPECIALIST IN THE TRANSITION
OF FOOD SYSTEMS




DR. NAJLA TRABELSI
ASSISTANT PROFESSOR AT
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OF BIOTECHNOLOGY OF BORD BOU
LABORATOIRES OF OLIVE BIOTECHNOLOGY




PROF. NAHLA EZZELDIN ZAKZOUK
HEAD OF
AT ELECTRICAL AND CONTROL DEPARTMENT
COLLEGE OF ENGINEERING AND TECHNOLOGY




DR. RANIA ASSEM
ASSISTANT PROFESSOR
AT ELECTRICAL AND CONTROL DEPARTMENT
COLLEGE OF ENGINEERING AND TECHNOLOGY




DR. AHMED ABDELREHIM
ASSISTANT PROFESSOR
AT ELECTRICAL AND CONTROL DEPARTMENT
COLLEGE OF ENGINEERING AND TECHNOLOGY


 **Hope for the Future Young Scientists Session**

 **March 31, 2026**  **AASTMT - Alexandria, Egypt**

 **08:30 - 16:00**

 **Co-funded by
the European Union**

 **PRIMA**
IN THE MEDITERRANEAN AREA

 **Online Participation Available**



Meeting ID: 913 7949 2874
Passcode: 440968

The second RESILINK's Final Event in Morocco took place at University Sultan Moulay Slimane (USMS) in Beni-Mellal. The event entitled "Digital Innovation and Resilience in Agroecosystems: RESILINK in Action" has been organized by USMS partner and was a great opportunity for the whole RESILINK consortium to acknowledge again the participation and the engagement of farmers in the Evaluation Program and the Living-Lab program run by RESILINK.



Program

09:30 – 10:00: Participant Registration and Welcome
10:00 – 10:15: Opening Remarks and Welcome Speeches
10:15 – 10:45: General Presentation of the Project
 « RESILINK: Innovating in Platform-of-Platforms Approaches for Increased Resilience Targeting Smallholder Farmer Communities». Presented by Professor Congduc Pham (Coordinator of the RESILINK Project).
10:45 – 11:15: Digital Transformation & Agriculture
 «Orange, a Multi-Service Operator and Partner in Digital Transformation in Africa: Focus on Digital Agriculture and Its Challenges». Speaker: Mr. Bruno Conquet (Orange).
11:15 – 11:45: Coffee Break and Networking
11:45 – 12:30: Field Results and Co-Construction
 «Living Labs Results: Co-Building Resilience with RESILINK». Presented by Prof. Mustapha Namous (FP-Béni Mellal, USMS) & Ms. Hayat Lionboui (INRA, Rabat).
12:30 – 13:00: Digital Agricultural Innovation
 «A Digital Tool Serving Farmers (Al Moutmir Program)». Presented by Mr. Aïman Achemrk (UM6P).
13:00 – 13:30: Scientific Perspectives on Agricultural Resilience
 «Contribution of Agronomic Research to Improving Climate Change Resilience in the Main Agricultural Sectors of the Tadla Region». Presented by Mr. Bassou Bouazzama (INRA, Béni Mellal).
13:30 – 14:00: Closing Session and Future Perspectives

- Summary of Discussions
- Acknowledgments
- Future Perspectives of the Project



For more information, please visit the following link: <https://resilink.eu/>

In addition to the 2 RESILINK presentations on “[Innovating in Platform-of-Platforms Approaches for Increased Resilience Targeting Smallholder Farmer Communities](#)” and “[Living-Labs Results: Co-building Resilience with RESILINK](#)”, Orange presented their broad activities in Africa in a presentation entitled “[Orange, multi-service operator, partner in digital transformation in Africa: Focus on digital agriculture and its challenges](#)”. It was the opportunity for Bruno Conquet from Orange Innovation to announce that during a meeting with Orange Guinea in Guinea (Conakry) in the end of 2025, the interest in the RESILINK application concept, look & feel was high to create a “Marketplace” application. The RESILINK approach and service will therefore be adapted for Orange Guinea.




Orange, multi-service operator, partner in digital transformation in Africa

Focus on digital agriculture and its challenges

Bruno Conquet – Orange Innovation

12 May 2026 – Final Event RESILINK – Beni Mellal (Morocco)



"Marketplace" application project with Guinea

- At the end of 2025, during a meeting with Orange Guinea, the interest in the [RESILINK app](#) concept and look & feel was high.
- It was decided to explore adapting the service for Orange Guinea, with a redesigned technical architecture.



An invited presentation on the "Al Moutmir Initiative and Program" was also given by Aiman Atchemrk from UM6P. It was a great moment of exchange on the valuable multi-year experience on increasing capacity-building and innovation with digital tools with smallholder farmer communities!

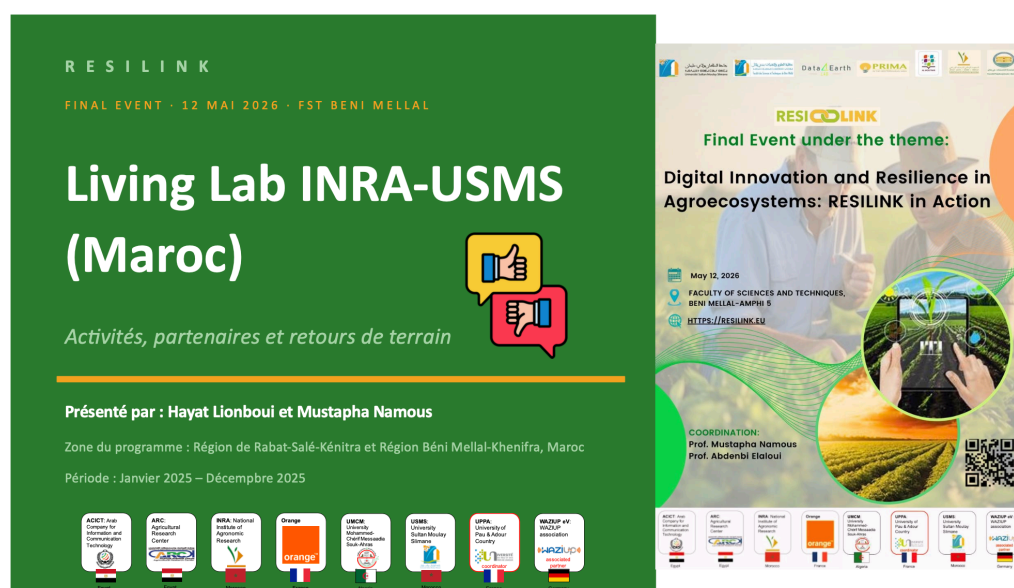
<https://resilink.eu/dissemination-acknowledgment-at-the-final-event-in-morocco>





The Living Lab Program ended with the Final Events in Egypt and in Morocco where the results and feedback from the Living Lab program have been presented:

- Final event at USMS, Béni Mellal, Morocco
“Living-Labs Results: Co-building Resilience with RESILINK”
<https://resilink.eu/wp-content/uploads/2026/05/RESILINK-final-event-Morocco-LLs.pdf>
- Final event at ACICT, Alexandria, Egypt
“Living-Labs Results: Co-building Resilience with RESILINK”
<https://resilink.eu/wp-content/uploads/2026/03/RESILINK-final-event-Egypt.pdf>



2.2.2. Detailed results from the presentations

2.2.2.1. Living Lab in Algeria, UCMCM

ISAV



UNIVERSITY OF SOUK AHRAS ALGERIA

RESILINK

Increasing Resilience of Smallholders with Multi-Platforms Linking Localized Resource Sharing

Institution: University of Souk Ahras(USA), Algeria

Program Location: Jijel, Guelma and Souk Ahras, Algeria

Period: Program conducted from January 2025 to June 2025







The PRIMA programme is supported under Horizon 2020 the European Union's Framework Programme for Research and Innovation.



Nov., 2025 1

Key Figures of the Living Lab

Between January and June 2025, three sessions were conducted in Taoura, Chekfa, and Oued Zenati. Their duration was adjusted to suit the local context, ranging from one to five months. In total, 14 participants actively took part in this participatory process, contributing not only to the exchange of knowledge and experiences but also to the co-development of practical solutions adapted to their respective environments.

Total number of sessions organized	Dates of the sessions	Duration of each session	Location of the sessions
1	21/01/2025	5 months	Chekfa (Jijel)
2	17/02/2025	5 months	Taoura (Souk Ahras)
3	14/03/2025	1 months	Oued Zenati (Guelma)
Total number of participants		14	

RESILINK

PRIMA
IN THE MEDITERRANEAN AREA

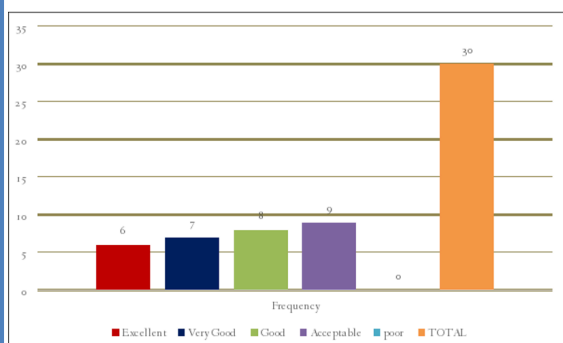
Partners and Stakeholders

Country	Stakeholder	Location/city
Algeria	Regional Chamber of Agriculture	Souk Ahras and Jijel
	Provincial Department of Agriculture	Chekfa (Jijel)
	Agricultural Advisory Center	Taher (Jijel)
	Regional Directorate of Agricultural Advisory	Souk Ahras
	Regional Directorate of Agricultural Advisory	Jijel
	Provincial Directorate of Agriculture	Oued Zenati (Guelma

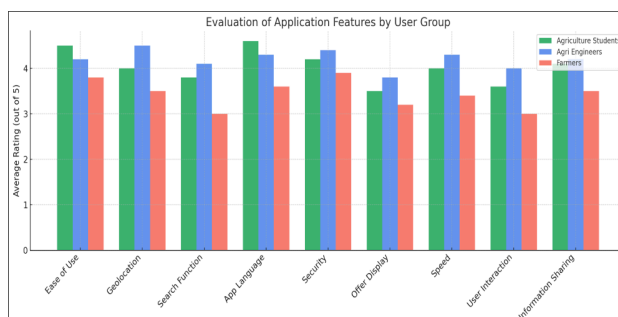


Participants' Feedback and Acknowledgements

Opinions on user interface



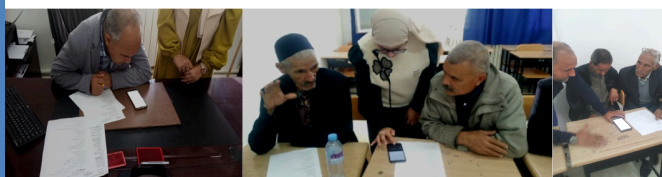
Global evaluation of the RESILINK App



Proposed improvement and services by farmers.

Proposed Offer	Category	Description
Sale of milk and dairy products	Animal Products	Interest in marketing dairy products through the application
Poultry farming	Animal Husbandry	Proposal to display poultry and eggs in a digital market
Beekeeping and honey production	Beekeeping / Natural Products	Suggestion to provide space to sell local honey
Sale of animal feed	Production Inputs	Service offering for selling animal feed and supplements
Olive production and marketing	Plant Products	Proposal to sell olives or olive oil via the platform
Provision of agricultural guidance	Educational / Advisory Content	Tips for farmers based on season and level of experience
Technical advice	Technical Content	Explanations related to modern agricultural tools and techniques
Fertilization and treatment programs	Agricultural Guidance	Calendar for soil fertilization and pest treatment of crops
Planting tutorials for beginners	Beginner Educational Content	Providing guides or videos to help new farmers get started

5



We would like to express our sincere gratitude to all the farmers, local partners, and stakeholders who actively participated in the Living Lab sessions. Their commitment, valuable contributions, and collaborative spirit played a key role in the success of this program. Through their engagement, knowledge sharing, and openness to innovation, they significantly enriched the process and helped ensure meaningful and impactful outcomes.

6

2.2.2.2. Living Lab in Egypt, ARC

Increasing Resilience



of Smallholders with Multi-Platforms Linking
Localized Resource Sharing

Agricultural Research Center Egypt (ARC)

Seham El-Gamal (Pi)



The PRIMA programme is supported under Horizon 2020 the European Union's Framework Programme for Research and Innovation.



1

Egypt Case Study

Beni Suef Governorate, is one of the leading governorates in medicinal and aromatic plants cultivation and the governorate targeted by PRIMA's project to increase smallholder resilience through multiple platforms linking local resource sharing in upper Egypt. So, we chose Biba, Beni Suef Governorate, to be our case study. It includes 128 farmers, representing about 10% of the total number of holders in the village



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2

Main Results (M1-M28)

1. Distribution of respondents according to their independent variables studied (Table 1)

(Table 1. (N = 128): 68.8% of small farmers are 20-50 years old, 65.6% of them have an intermediate education, Males up to 68.8%, 70% of them has a farm area less than 1 acre, 50% of our small farmers had over 20 years experience and the majority of them (53%) owned the farm land, also, the majority of the small farmers (65.6%) earn 33%-66% of their income from agricultural operations, including seasonal labor)

socio-economic variables	No.	%	Mean	SD	socio-economic variables	No.	%
Age (Years)					Educational level		
35-20	40	31.3	44.9	12.46	Illiterate	12	9.38
50 -35	48	37.5			Reads and writes	16	12.50
above 50	40	31.3			Secondary	84	65.62
					Tertiary	16	12.50
Number of family members working in agriculture					Land size (feddan)		
one person	68	53.1			<1	60	46.9
two persons	32	25.0			1-2	36	28.1
more than two persons	28	21.9			> 2	32	25
Sex					Social status		
Male	88	68.8			married	124	96.9
Female	40	31.3			Divorced	4	3.1
Nature of agricultural work					cultivation type		
Seasonal	48	37.5			traditional		93.8
Permanent	80	62.5			Organic farming		6.2
Agricultural experience (years)					Ownership of agricultural land		
Less than 10 years	32	25	23	13.8	Owner	68	53.1
10-20	32	25			tenant	40	31.3
More than 20 years	64	50			Owner and tenant	24	15.6
Attitude towards agricultural extension:					Income outside the farm		
Negative less than 17 degrees	60	46.9	14.8	6.81	Yes	52	40.6
Neutral 17 - 22 degrees	44	34.4			No	76	59.4
positive (22 degree or more)	24	18.8					
Attitude towards digital applications					Farm Income		
Negative (less than 13degree)	19	14.84			5000- 20,000	36	28.13
Neutral (13-18 degree	45	35.16	17.7	5.8	20,000 - 35,000	72	56.25
Positive (19 degree or more)	64	50.00			35,000 -50,000	20	62 - 15
Agricultural production cost out of total income					Family income from agricultural activity		
less than 33%	36	28.12			less than 33%	24	18.8
From 33 - 66%	40	31.25	41.5	24	From 33 - 66%	84	65.6
more than 66%	52	40.63			more than 66%	20	15.6

Source: filed study 2023



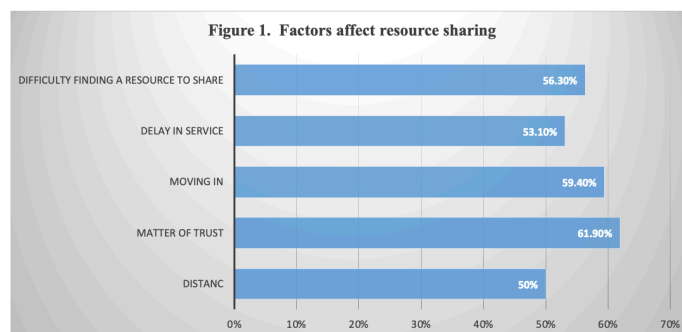
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3

2 . Factors affect the resource sharing

The Fig. shows that, trust issues was the main barrier (61.9%) for resource sharing, Followed by moving (59.4%), while 56.3% of farmers do not share their resources because they cannot find a suitable resource to share. Delay of services, makes 53.1% of farmers reluctant to share resources



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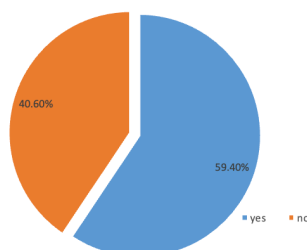


4

3. Readiness to adopt platforms linking local resource-sharing in the future

Results indicates that, the majority of small farmers like to replace their traditional method with a digital platforms (mobile app.) to share resources and services (59.4%), which reflects that, RESILINK can have an active role contributes sharing resources and marketing information.

Figure (2) Readiness to replace the traditional method of participation with a digital platform (phone application) to share resources and services



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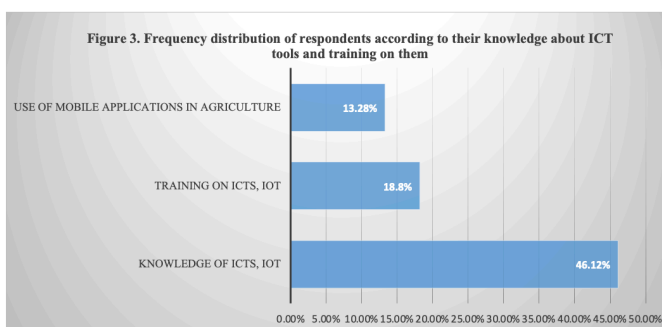


5

4. Respondent's Knowledge about information and communication technology and their sources of information

Findings shows that, only 46.12% of respondents have knowledge about concepts like ICTs, the Internet of Things (IoT), and its agricultural applications, whereas 18.8% had ICT training. At the same time, their use of these applications was very limited in the field of agriculture (13.28%)

Figure 3. Frequency distribution of respondents according to their knowledge about ICT tools and training on them



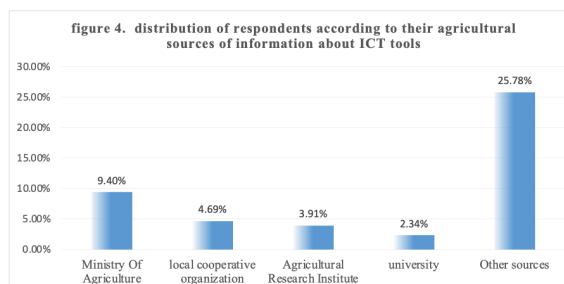
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6

5. Distribution of respondents according to their agricultural sources of information about ICT tools

Findings shows the farmers information sources for ICT and IoT tools, the Ministry of Agriculture, Agricultural Research Center, and the different Universities play a limited role in training farmers and raising their awareness of these modern tools (9.4, 3.91 and 2.34%). Therefore, we have to emphasize the need to provide farmers with the hidden benefits of ICT, which may alert farmers to weather changes, natural disasters, price changes and other of their concerns



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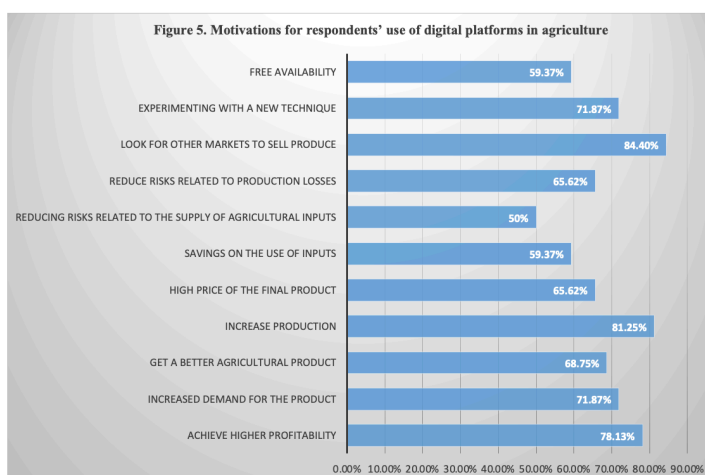


ARCI
Agricultural Research Center

7

6. Respondents' motives for adaptation digital platforms in agriculture

The results indicate that, the most common for farmers utilize information digital platforms in agriculture are to find new markets, boost productivity, and increase profitability (84.4%, 81.25%, 78.13%). While 50% of them wanted to eliminate agricultural input supply risks. One of options is to empower the agricultural community by providing fast, reliable, and locally relevant agricultural information, by integrating interactive platforms to spread information and connect farmers to conventional markets, especially in emergencies where personal networks are unavailable



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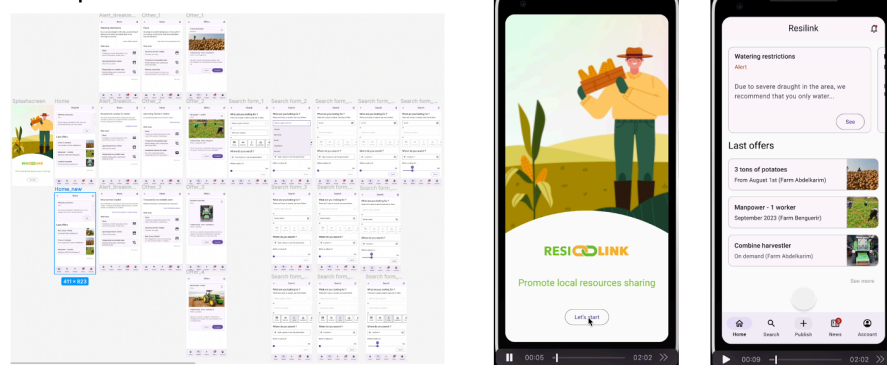


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8

Mobile app mockup

- Interviews results will be realized with a Figma mockup that can be interactively demonstrated on a smartphone to get feedback on the application functionalities, user experience and user interface



RESILINK

PRIMA
IN THE MEDITERRANEAN AREA



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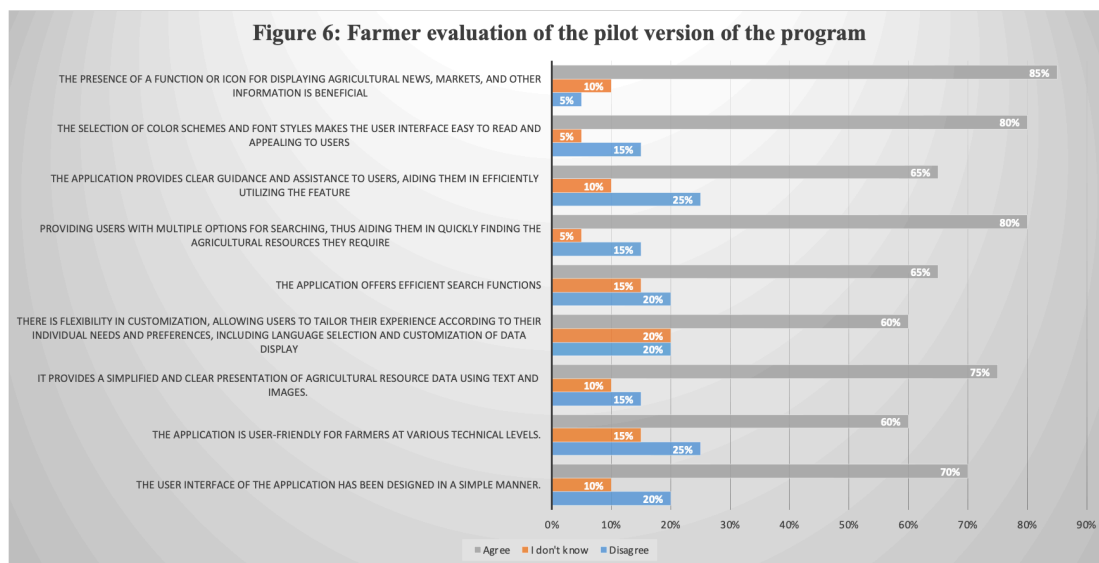


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Mobile app mockup small farmers feedback results

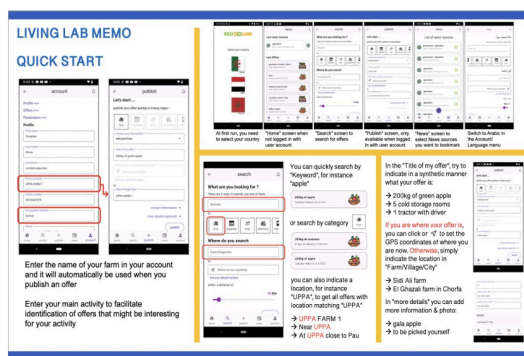
Figure 6: Farmer evaluation of the pilot version of the program



10

Feedback on RESILINK mobile application new version

- Finally, we are ready to enroll some participants for the Living-Lab phase. The RESILINK mobile app is using the new lightweight server that we also tested
- A new Living Lab Memo has been produced, which is, more clear to identify the main point to explain to testers



A. Personal Information

1. Firstname: _____ Name: _____

2. Age category?

17 or younger	☐
18-20	☐
21-29	☐
30-39	☐
40-49	☐
50-59	☐
60 or older	☐

3. Do you use mobile applications?

Always	☐
Frequently	☐
Sometimes	☐
Never	☐

4. Professional activities: _____

5. If you are a farmer: What are the main activities of your farm?

Agriculture	☐
Livestock	☐
Other	☐

If Other, please specify: _____

6. If you are a farmer: Size of farm

Less than 3ha	☐
3-5 ha	☐
6-10 ha	☐
More than 10 ha	☐

7. If you are a farmer: How many years have you been involved in agriculture?

Less than 5 years	☐
6-10 years	☐
11-15 years	☐
16-20 years	☐
More than 20 years	☐

2

RESILINK

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Feedback on RESILINK mobile application new version main key findings

- Key Findings:**
 - Demographics and Agricultural Experience**
 - Most of small farmers (53%) have between 16 to 20 years of farming experience
 - All participants regularly use mobile applications for agricultural purposes
 - Positive Evaluations of the User Interface**
 - The user interface and home page received high satisfaction ratings, with 66.7% and 100% of small farmers rating them as excellent, respectively
 - The ease of creating listings and uploading images was rated as excellent or very good by the majority
 - Search and News Channel Accessibility**
 - The majority small farmers found it very easy to search for news channels with different links, that found to be highly useful, with 83.3% as excellent

RESILINK

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12

2.2.2.3. Living Lab in Morocco, INRA & USMS

RESILINK

FINAL EVENT · 12 MAI 2026 · FST BENI MELLAL

Living Lab INRA-USMS (Maroc)

Activités, partenaires et retours de terrain

Présenté par : Hayat Lionboui et Mustapha Namous

Zone du programme : Région de Rabat-Salé-Kénitra et Région Béni Mellal-Khenifra, Maroc

Période : Janvier 2025 – Décembre 2025












RESILINK

Final Event under the theme:

Digital Innovation and Resilience in Agroecosystems: RESILINK in Action

May 12, 2026

FACULTY OF SCIENCES AND TECHNIQUES, BENI MELLAL-AMPHI 5

[HTTPS://RESILINK.EU](https://resilink.eu)

COORDINATION:
Prof. Mustapha Namous
Prof. Abdenbi Elaloui










CONTEXTE

Stratégie Génération Green – Maroc Numérique



Dans le cadre de la Stratégie Génération Green, le Maroc vise à transformer son agriculture grâce au numérique comme levier central de modernisation et inclusion



 **Le numérique : levier central de la transformation agricole marocaine**

ALIGNEMENT STRATÉGIQUE

RESILINK au cœur des priorités nationales

RESILINK s'inscrit dans trois axes majeurs de la politique agricole nationale :



Inclusion Agricole

Intégration des petits exploitants dans les circuits formels d'information et d'approvisionnement. RESILINK digitalise l'accès aux services et aux marchés pour tous.



Résilience Climatique

Gestion optimisée des ressources via la donnée. L'application fournit des informations contextualisées pour adapter les pratiques agricoles aux aléas climatiques.



Gouvernance & Transparence

Modernisation des services agricoles publics. RESILINK connecte les institutions, les conseillers et les agriculteurs sur une plateforme partagée et transparente.

ADOPTION DES INNOVATIONS AGRICOLES

Cadre théorique et facteurs explicatifs

FACTEURS D'ADOPTION



Conditions des exploitations agricoles (superficie, équipement, irrigué/pluvial...)



Caractéristiques individuelles (âge, niveau d'instruction, expérience...)



Accès à l'information (conseil agricole, réseaux, marches...)



Expériences passées et perceptions de l'utilité et des risques

INSIGHT CLÉ

La perception des opportunités influence davantage la décision que les analyses techniques seules.

→ Rôle central de la démonstration et des échanges avec les utilisateurs dans l'adoption

RESILINK COMME OPPORTUNITÉ

Une plateforme au service du territoire agricole

RESILINK vise à construire un écosystème numérique agricole intégré, favorisant l'accès à l'information, la mise en relation et la résilience des territoires.



Connecter les acteurs

Agriculteurs, conseillers, commerçants, institutions : une communauté agricole unifiée sur une seule plateforme.



Accès à l'information

Offres de marché, conseils techniques, alertes climatiques, intrants : l'information juste, au bon moment.



Interactions multi-acteurs

Facilitation des échanges entre l'offre et la demande agricole, incluant les acteurs institutionnels.



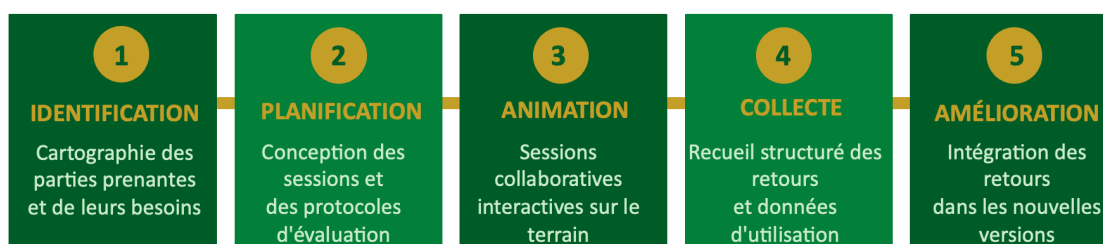
Résilience territoriale

Réduction de la vulnérabilité des exploitations face aux chocs par une meilleure circulation de l'information.

MÉTHODOLOGIE LIVING-LAB

Approche participative centrée utilisateur

Le Living-Lab RESILINK repose sur une démarche itérative d'innovation ouverte :



✓ **Cycle itératif : chaque version de l'app intègre les retours terrain avant la session suivante**



PHASES D'IMPLICATION DES ACTEURS AGRICOLES

Trois étapes progressives de co-conception

ÉTAPE 1 – TEST EN LABORATOIRE

8 personnes

Profils :

Chercheurs & Techniciens

Objectif :

Valider la première version de l'application dans un environnement contrôlé

ÉTAPE 2 – ATELIERS COLLABORATIFS

24 personnes

Profils :

Agriculteurs (10), Décideurs publics (6), Parlementaires (2), Représentants régionaux (2), Chercheurs (4)

Objectif :

Recueillir des retours diversifiés et identifier les modifications clés

ÉTAPE 3 – TESTS EN CONDITIONS RÉELLES

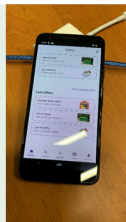
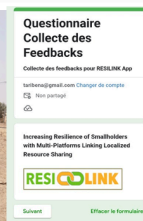
En conditions réelles

Profils :

Utilisateurs terrain dans la Région Rabat-Salé-Kénitra

Objectif :

Observer l'utilisation in situ pour améliorer l'expérience utilisateur



STATISTIQUES DES SESSIONS LIVING-LAB

Région Rabat-Salé-Kénitra | 2024–2025

Type	Date début	Date fin	Femmes	Hommes	Total
Démo	10/12/2024	—	4	20	24
Living-Lab	11/12/2024	25/12/2024	4	7	11
Démo	07/04/2025	—	5	3	8
Living-Lab	08/04/2025	26/04/2025	4	3	7
Living-Lab	19/06/2025	10/07/2025	4	3	7
Living-Lab (Google Play)	30/10/2025	20/11/2025	1	2	3
TOTAL			22	38	60



PARTICIPANTS & PARTIES PRENANTES

Un ancrage multi-institutionnel fort

60

participants
en phase de test

160+

acteurs
consultés

2024-25

sur deux
années

ACTEURS IMPLIQUÉS



Office National du Conseil Agricole

Partenaire institutionnel principal



Direction Régionale de l'Agriculture

Coordination territoriale



Chercheurs & Parlementaires

Expertise & gouvernance



Agriculteurs & agricultrices

Utilisateurs cibles principaux



Commerçants agricoles

Acteurs du marché



RÉSULTATS DE L'ÉVALUATION UTILISATEURS

Quatre dimensions d'analyse

L'évaluation a couvert quatre dimensions clés de l'expérience utilisateur, avec des constats et des améliorations apportées en continu.

Facilité d'utilisation		Utilité	
✓ Navigation simple et intuitive ✓ Recherche et localisation efficaces	Améliorations → Ergonomie et design renforcés → Accessibilité linguistique améliorée	✓ Accès pertinent à l'information agricole ✓ Offres bien structurées	Améliorations → Enrichissement des catégories (élevage, stockage)
Fiabilité & Performance		Expérience globale	
✓ Quelques limitations techniques initiales ✓ Préférences de paiement diversifiées	Améliorations → Fonctionnalités techniques renforcées	✓ Expérience jugée satisfaisante ✓ Fort intérêt pour la connectivité des territoires	Améliorations → Interface rendue plus attractive → Meilleure gestion des publications



ENGAGEMENT DES PARTIES PRENANTES

Retours et adhésion au concept RESILINK

PARTIES PRENANTES IMPLIQUÉES

- Office National du Conseil Agricole
- Directions régionales de l'agriculture
- Agriculteurs (petites & moyennes exploitations)
- Commerçants agricoles
- Chercheurs (INRA, Universités)



RETOURS POSITIFS

Fort intérêt pour la digitalisation des services agricoles

Appréciation de l'accès facile à l'information de marché

Pertinence de la mise en relation entre acteurs de la filière

Potentiel reconnu pour un écosystème collaboratif local

→ Forte adhésion au concept RESILINK observée

Chiffres Clés du Living Lab – USMS/ Site Bni Mellal

Quatre sessions ont été organisées entre janvier et septembre 2025 à Beni Mellal, Oulad Yaich, Fqih Ben Salah et Azilal, avec des durées adaptées au contexte local (de 1 à 8 mois). Un total de 19 participants ont été impliqués dans cette démarche participative.

#	Date	Durée d'accompagnement	Lieu de la session
1	07/01/2025	8 mois	Beni Mellal
2	10/02/2025	7 mois	Oulad Yaich
3	05/04/2025	2 mois	Fqih Ben Salah
4	10/09/2025	1 mois	Azilal
Nombre total de participants			19

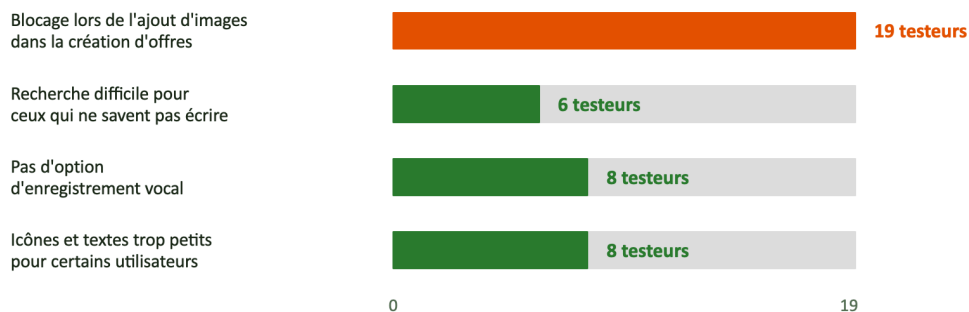
Partenaires & Parties Prenantes

Pays	Partie prenante	Lieu / Ville
Maroc	Chambre d'Agriculture	Azilal
	Direction Provinciale de l'Agriculture	Azilal
	Centre de Conseil Agricole (CCA)	Azilal
	Centre de Conseil Agricole de Tabant	Tabant, Aït Bouguemez (Azilal)
	Direction Régionale du Conseil Agricole	Beni Mellal
	Chambre Régionale d'Agriculture	Beni Mellal
	Direction Provinciale de l'Agriculture	Beni Mellal
	Office Régional de Mise en Valeur Agricole du Tadla (ORMVAT)	Fqih Ben Salah
	Direction Régionale de l'Agriculture	Beni Mellal

Principaux Problèmes Rencontrés par les Utilisateurs

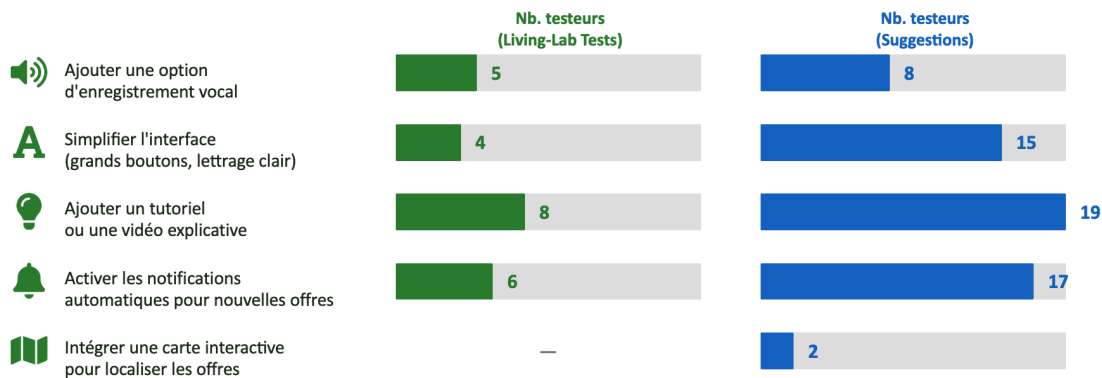
Living-Lab Tests · 19 testeurs au total

Nombre de testeurs ayant signalé le problème



Le problème le plus critique : blocage lors de l'ajout d'images signalé par la totalité des 19 testeurs (100%)

Priorités d'Amélioration Exprimées par les Utilisateurs



Living-Lab Tests · Suggestions pour amélioration · 19 testeurs au total

Living-Lab Tests (utilisation) Suggestions d'amélioration

R E S I L I N K

« Nous remercions chaleureusement tous les agriculteurs, partenaires locaux et parties prenantes qui ont participé aux sessions du Living Lab et contribué au succès de ce programme. »



4

sessions
organisées

Janv. – Sept. 2025



19

participants
impliqués

approche participative



9

partenaires
marocains

région Béni Mellal-Kheniffra

<https://resilink.eu> · PRIMA · USMS · FST Béni Mellal · 12 mai 2026

SYNTHÈSE & PERSPECTIVES

RESILINK en logique d'innovation continue



Amélioration continue

Intégration systématique des retours utilisateurs après chaque session Living-Lab.



Fonctionnalités enrichies

Nouvelles catégories, partage, et suivi des transactions.



Performance renforcée

Stabilité, ergonomie et accessibilité améliorées à chaque mise à jour.



Déploiement élargi

Passage au Google Play Store et extension à de nouveaux territoires agricoles.



RESILINK évolue dans une logique d'innovation continue centrée sur l'utilisateur agricole



Unir les territoires pour résister

RESILINK n'est pas qu'une application, c'est un écosystème de solidarité et un terreau fertile pour le développement de nouvelles applications locales.

Le numérique au service de la sécurité alimentaire marocaine.



2.3. Partners running the Living Labs Program

2.3.1. UMCM, Algeria

UMCM contributors



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El Haj El Maadoudi
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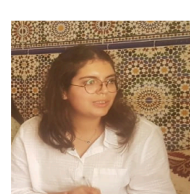
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Researcher



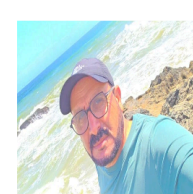
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Majda Radouani
Technician



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Abdenabi Saadi
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2.3.4. USMS, Morocco

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2.4. Stakeholders and local actors

Country	Stakeholder	Location/city
Algeria	Regional Chamber of Agriculture	Souk Ahras and Jijel
Algeria	Provincial Department of Agriculture	Chekfa (Jijel)
Algeria	Agricultural Advisory Center	Taher (Jijel)
Algeria	Regional Directorate of Agricultural Advisory	Souk Ahras
Algeria	Regional Directorate of Agricultural Advisory	Jijel
Algeria	Provincial Directorate of Agriculture	Oued Zenati (Guelma)
Morocco	National Agricultural Advisory Office	Rabat
Morocco	Regional Directorate of Agriculture in Rabat, Salé, Kenitra	Rabat
Morocco	Provincial Directorate of Agriculture in Rabat	Rabat
Morocco	Rabat-Salé-Kénitra Chamber of Agriculture	Kénitra
Morocco	Agricultural Advisory Center of Zehiliga	Zehiliga
Morocco	Agricultural Advisory Center of Ain Sbit	Ain Sbit
Morocco	Agricultural Advisory Center of Khémisset	Khémisset
Morocco	Agricultural Advisory Center of Oulmès	Oulmès
Morocco	Agricultural Advisory Center of Roummani	Roummani
Morocco	Agricultural Advisory Center of Sidi Yahia Zayer	Sidi Yahia Zayer
Morocco	Agricultural Advisory Center	Skhirat

	of Skhirat	
Morocco	Agricultural Advisory Center of Tiflet	Tiflet
Morocco	Chamber of Agriculture	AZILAL
Morocco	Provincial Department of Agriculture	AZILAL
Morocco	Agricultural Advisory Center (CCA)	AZILAL
Morocco	Agricultural Advisory Center in Tabant	Tabant, Aït Bouguemez (AZILAL)
Morocco	Regional Directorate of Agricultural Advisory	Beni Mellal
Morocco	Regional Chamber of Agriculture	Beni Mellal
Morocco	Provincial Directorate of Agriculture	Beni Mellal
Morocco	Regional Office for Agricultural Investment (ORMVAT)	Fquih ben Saleh
Morocco	Regional Directorate of Agriculture	Beni Mellal
Egypt	Agricultural Research Center (ARC)	Giza
Egypt	National Research Center (NRC)	Giza
Egypt	Egypt Academy of Scientific Research and Technology (ASRT)	Cairo
Egypt	Scientific Society of Agricultural Extension	Cairo
Egypt	Bani Sweif Agriculture Directorate	Bani Sweif
Egypt	Agricultural Administration of Biba	Bani Sweif
Egypt	Agricultural Association of Biba Island	Bani Sweif

ACRONYMS LIST

Acronym	Explanation
API	Application Programming Interface

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