



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

Deliverable D6.5

Final year report

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V1.1	Sep. 4 th , 2026	PUBLIC RELEASE
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EXECUTIVE SUMMARY

Deliverable D6.5 reviews the main activities conducted during the final year of the project. However, the purpose of this deliverable is not to duplicate the extensive and more complete information provided by the numerous project's specific deliverables. Therefore, we will briefly summarize the main activities and then provide links to the associated deliverables, resources and documents. We will then present the achieved KPIs with the initial proposed KPIs and will elaborate on the difficulties encountered.

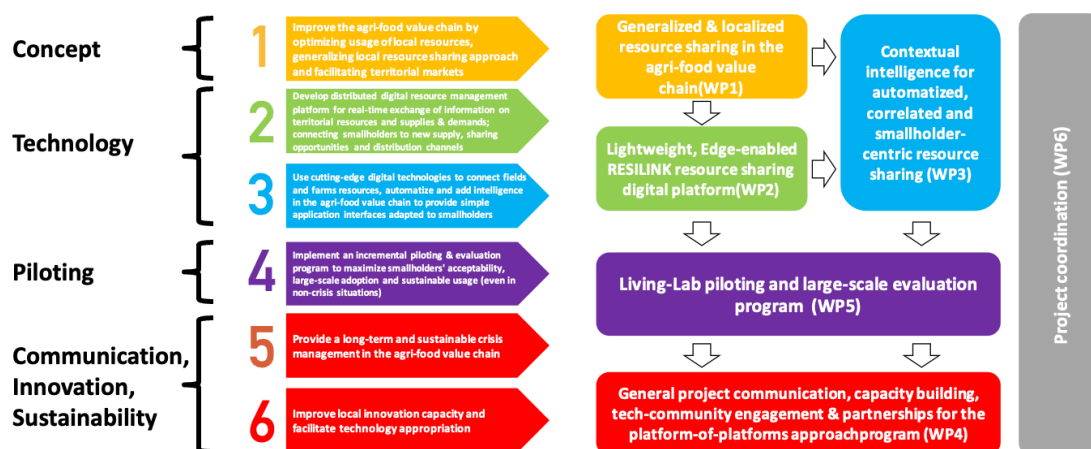
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1. INTRODUCTION

1.1. Review of project's structure

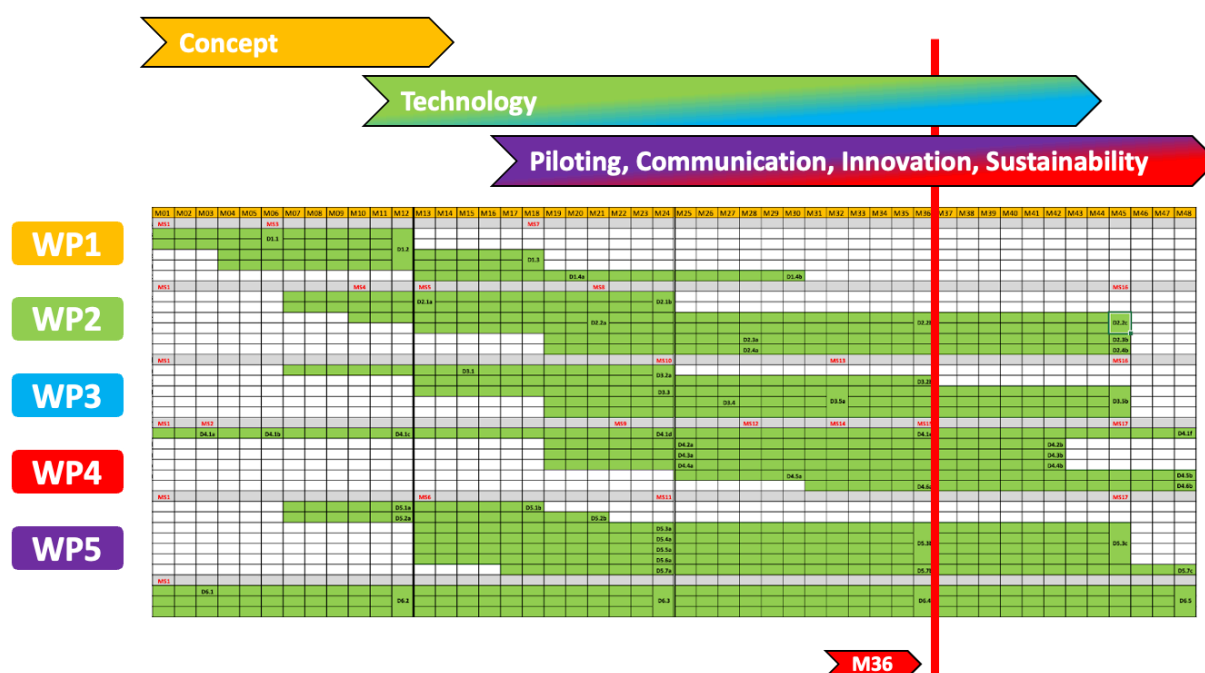
The project's objectives and the mapping to the list of work packages (WPs) are illustrated below.



The list of WPs, showing tasks as well as WPs & Task leaders with color codes are illustrated below.

WP/Task	Title	UPPA	ORANGE	WAZIUP e.	UMCM	INRA	USMS	ACICT	ARC
WP1	Generalized & localized resource sharing in the agri-food value chain	0	0	0	0	0	0	0	0
T1.1	Identification of smallholders' resource requirements in a local & territorial context								
T1.2	Identification of innovative distribution channels specific to a local & territorial context								
T1.3	Technical-oriented and user-oriented issues for long-term sustainability of the platform								
T1.4	Framework definition of generalized resource sharing for increased resilience								
T1.5	Governance, public policy, link with stakeholders and local actors								
WP2	Lightweight, Edge-enabled RESILINK resource sharing digital platform	0	0	0	0	0	0	0	0
T2.1	Co-design of the RESILINK generalized resource sharing digital platform								
T2.2	User requirements and user interface for generalized resource sharing in the agri-food value chain								
T2.3	Development of lightweight, Edge-enabled RESILINK resource sharing digital platform								
T2.4	Designing a robust Edge-oriented architecture enabling high availability								
T2.5	Development of RESILINK mobile app for generalized resource sharing								
T2.6	Application Programming Interface and software connectors for interoperability								
T2.7	Tests and validation of the full RESILINK framework								
WP3	Contextual intelligence for automatized, correlated and smallholder-centric resource sharing	0	0	0	0	0	0	0	0
T3.1	Edge-IoT automation for contextual information sharing at production area								
T3.2	IoT integration into Edge-IoT RESILINK gateway for an efficient Edge-enabled platform								
T3.3	Artificial Intelligence and Machine Learning advanced analytics for correlated data								
T3.4	Innovative multiple knowledge streams methodology for responsive resource sharing								
T3.5	AI integration into Edge-IoT RESILINK gateway for an efficient Edge-enabled platform								
WP4	General project communication, capacity building, tech-community engagement	0	0	0	0	0	0	0	0
T4.1	General project communication and dissemination								
T4.2	Development of software templates demonstrating RESILINK's open API								
T4.3	RESILINK mobile app demonstration and dissemination events								
T4.4	Competitions and Challenges for Tech Community engagement								
T4.5	Partnerships and demonstration of interoperability of platforms								
T4.6	Mentoring and pre-incubation of selected partnerships								
WP5	Living-Lab piloting and large-scale evaluation program	0	0	0	0	0	0	0	0
T5.1	Smallholder engagement and acceptance for Living-Lab								
T5.2	Definition and development of the evaluation technical framework								
T5.3	Smallholder Living-Lab Piloting Program in Egypt								
T5.4	Smallholder Living-Lab Piloting Program in Morocco								
T5.5	Smallholder Living-Lab Piloting Program in Algeria								
T5.6	Large-scale RESILINK mobile app evaluation program								
T5.7	Evaluation, synthesis and KPI assessment								
WP6	Project management	0	0	0	0	0	0	0	0
T6.1	Project coordination/administration								
T6.2	Technical management								
T6.3	Quality and risk management								
	Total PM computed	0	0	0	0	0	0	0	0
	WP leader								
	Task leader								
	participant								

The project Gantt chart is illustrated below, showing the various phases of the project. We kept the M36 line to show what has been accomplished in the previous 3 years and what is specifically addressed in this D6.5 document.



1.2. Gantt diagram for project's final year

WP/Task	Title	M37	M38	M39	M40	M41	M42	M43	M44	M45	M46	M47	M48
WP1	Generalized & localized resource sharing in the agri-food value chain												
T1.1	Identification of smallholders' resource requirements in a local & territorial agri-food chain												
T1.2	Identification of innovative distribution channels specific to a local & territorial agri-food chain												
T1.3	Technical-oriented and user-oriented issues for long-term sustainability of local resource sharing												
T1.4	Framework definition of generalized resource sharing for increased resilience of smallholders												
T1.5	Governance, public policy, link with stakeholders and local actors												
WP2	Lightweight, Edge-enabled RESILINK resource sharing digital platform									MS16			
T2.1	Co-design of the RESILINK generalized resource sharing digital platform												
T2.2	User requirements and user interface for generalized resource sharing in an agri-food chain												
T2.3	Development of lightweight, Edge-enabled RESILINK resource sharing digital platform									D2.2c			
T2.4	Development of RESILINK mobile app for generalized resource sharing												
T2.5	Application Programming Interface and software connectors for interoperability between platforms									D2.3b			
T2.6	Tests and validation of the full RESILINK framework									D2.4b			
WP3	Contextual intelligence for automatized, correlated and smallholder-centric resource sharing									MS16			
T3.1	Edge-IoT automation for contextual information sharing at production and transformation level												
T3.2	IoT integration into Edge-IoT RESILINK gateway for an efficient Edge-enabled automatized system												
T3.3	Artificial Intelligence and Machine Learning advanced analytics for correlated local resources discovery												
T3.4	Innovative multiple knowledge streams methodology for responsive resource sharing in crisis situation									D3.5b			
T3.5	AI integration into Edge-IoT RESILINK gateway for an efficient Edge-enabled decision-making system												
WP4	General project communication, capacity building, tech-community engagement & partnerships for the									MS17			
T4.1	General project communication and dissemination												D4.1f
T4.2	Development of software templates demonstrating RESILINK's open API						D4.2b						
T4.3	RESILINK mobile app demonstration and dissemination events						D4.3b						
T4.4	Competitions and Challenges for Tech Community engagement						D4.4b						
T4.5	Partnerships and demonstration of interoperability of platforms												D4.5b
T4.6	Mentoring and pre-incubation of selected partnerships												D4.6b
WP5	Living-Lab piloting and large-scale evaluation program									MS17			
T5.1	Smallholder engagement and acceptance for Living-Lab												
T5.2	Definition and development of the evaluation technical framework												
T5.3	Smallholder Living-Lab Piloting Program in Egypt												
T5.4	Smallholder Living-Lab Piloting Program in Morocco									D5.3c			
T5.5	Smallholder Living-Lab Piloting Program in Algeria												
T5.6	Large-scale RESILINK mobile app evaluation program												
T5.7	Evaluation, synthesis and KPI assessment												D5.7c
WP6	Project management												
T6.1	Project coordination/administration												
T6.2	Technical management												D6.5
T6.3	Quality and risk management												

1.3. List of milestones for the whole project

For this final year report, we list below all RESILINK's milestones. MS16 & MS17 are the last 2 milestones for the M37-M48 period (year 4th).

No	Milestone name	Description	WP	Due date	Means of verification
MS1	Kick off meeting	Define and launch all the actions, web site and repositories	All	M01	Meeting minutes
MS2	Project web site	The project web site is operational with information on project's objectives, consortium and events	WP4	M03	Web site
MS3	First results from investigating resource sharing & distribution channels	Conducted studies, surveys and interviews provide first results to position the RESILINK's approach with regards to smallholders' needs, constraints and opportunities in the context of a local agri-food chain.	WP1	M06	D1.1
MS4	Development of core components for the RESILINK digital platform has started	The development teams have initiated code development of RESILINK's core software components.	WP2	M10	Activities in T2.1 & T2.2; development started
MS5	First definition of the RESILINK framework sketched by co-design sessions and investigations on user requirement and user interface	Co-design sessions, meetings and interviews with end users and various agri-food chain actors have allowed RESILINK partners to collect needs and requirements (including technical ones) in order to define a first definition of the RESILINK framework, including the user interface and the desired/critical features.	WP2	M13	D2.1a
MS6	Living-Lab Piloting program and large-scale evaluation program started	The working groups for preparing the Living-Lab Piloting program and large-scale evaluation program have started.	WP5	M13 → M24	D5.1a and D5.2a
MS7	RESILINK framework is completely defined	The preliminary studies of WP1 have completely defined the RESILINK framework. Feedbacks and recommendations will be provided to software development tasks.	WP1	M18 → M24	D1.3
MS8	V1 of RESILINK framework is released	V1 of RESILINK framework is ready for internal testing and early demonstration in Living-Labs.	WP2	M21	D2.2a, D5.2b; RESILINK v1
MS9	First dissemination event	First dissemination event demonstrating the RESILINK digital platform and mobile app.	WP4	M22	RESILINK v1
MS10	IoT integration in RESILINK is demonstrated	IoT integration is operational in the RESILINK framework. Living-Lab Piloting Program can be extended with IoT features.	WP3	M24	D3.2a; RESILINK v1
MS11	First consolidated results from the Living-Labs and evaluation program	Results from the Smallholders Living-Lab Piloting Program and the large-scale RESILINK mobile app evaluation have been consolidated for analysis and possibly corrective actions.	WP5	M24	D5.3a, D5.4a, D5.5a, D5.6a
MS12	First Competitions & Challenges launched	RESILINK platform and open API are stable to launch the first Competitions & Challenges for tech communities.	WP4	M28	D2.3a, D4.4a

MS13	AI integration in RESILINK is demonstrated	AI integration is operational in the RESILINK framework. Living-Lab Piloting Program can be extended with IoT features.	WP3	M32	D3.5a
MS14	At least 6 dissemination events completed	Minimum of 6 dissemination events completed in Egypt, Morocco and Algeria.	WP4	M32	6 events completed
MS15	At least 3 partnerships, mentoring activities are launched	Minimum of 3 partnerships planned with local initiatives demonstrating RESILINK interoperability enabling mentoring activities to start.	WP4	M36	Agreements
MS16	Final version of RESILINK framework	The whole RESILINK digital platform with all components and features has been tested, validated and is ready for further exploitation.	WP2, WP3	M45	D2.2c, D3.5b; RESILINK v3
MS17	Final major dissemination event	Final dissemination event with presentations of all the results of Living-Lab Piloting and large-scale evaluation. Demonstration of the latest version of the RESILINK digital platform.	WP4, WP5	M45	D5.3c; RESILINK v3

→ MS6 and MS11 were delayed to M24 (see D6.3, due to longer co-design, interviews, development & preparation phase of the large-scale evaluation program and Living-Lab program.

→ M10 is cancelled because RESILINK cancelled the IoT automation part as it is found not suitable for the current context of smallholders and current orientation of RESILINK platform.

→ M12 is not reached. However, instead of Competitions & Challenges, RESILINK co-founded the Resilient Smallholder Initiative to build a network of other PRIMA projects where digital platforms to share resources can be deployed. RESILINK makes its open API available for these projects and their communities.

→ M13 is not reached because RESILINK cancelled the IoT automation part (see M10) and a more traditional “offer suggestion” feature has been implemented instead.

→ M15 is not reached.

- However, instead of partnerships with local initiatives, RESILINK co-founded the Resilient Smallholder Initiative to build a network of other PRIMA projects where digital platforms to share resources can be deployed. RESILINK makes its open API available for these projects and their communities.
- Presented to Orange’s Guinea Conakry subsidiary, the approach proposed by RESILINK is now taking on a new dimension by evolving into an agricultural marketplace, enabling stakeholders across the sector to more effectively sell, search for, buy, rent, lend, and otherwise exchange agricultural products, goods, and services, through a business model adapted to the local context. Orange Innovation is supporting the subsidiary in 2026 with the development of this new platform.

1.4. List of deliverables for project's final year (M37-M48)

Code	Deliverable Title	Related Work Package Number	Responsible Editor	Task	Due
D2.2c	RESILINK resource sharing digital platform – v3	2	ORANGE	T2.3, T2.4	M45
D2.3b	Final report on API and software connectors	2	UPPA	T2.5	M45
D2.4b	Final report on test and validation of the full RESILINK framework	2	ACICT	T2.6	M45
D3.3	Artificial Intelligence and Machine Learning advanced analytics for correlated local resources discovery and mapping	3	UPPA	T3.3	M24
D3.5b	Final report on AI integration into Edge-IoT RESILINK gateway	3	UPPA	T3.5	M45
D4.2b	Final report on software templates demonstrating RESILINK's open API	4	UPPA	T4.2	M42
D4.3b	Final report on RESILINK mobile app demonstration and dissemination events	4	ORANGE	T4.3	M42
D4.4b	Final report on Competitions and Challenges for Tech Community engagement	4	ACICT	T4.4	M42
D4.1f	Final report on communication and dissemination activities	4	UPPA	T4.1	M48
D4.5b	Final report on partnerships and demonstration of interoperability	4	UPPA	T4.5	M48
D4.6b	Final report on mentoring and pre-incubation of selected partnerships	4	UPPA	T4.6	M48
D4.7	Perspectives for long-term exploitation of project's results	4	ORANGE	T4.7	M48
D5.3c	Synthetic Report on 3 years of Smallholder Living-Lab Piloting Program and large-scale evaluation	5	USMS	T5.3, T5.4, T5.5	M45
D5.7c	Evaluation, synthesis and KPI assessment of 3 years of piloting and evaluation program	5	INRA	T5.7	M48
D6.5	Final year report	6	UPPA	T6.2	M48

Several deliverables have been cancelled or merged into other deliverables and this will be described later in section 5 “Modifications & Corrections from initial plan”.

2. QUICK REVIEW OF ACTIVITIES BY WPs

2.1. WP1 – finished since M30

WP1 “Generalized & localized resource sharing in the agri-food value chain”

See last updates for WP1 in D6.4 “Third year report”

<https://resilink.eu/wp-content/uploads/2025/09/D6.4.pdf>

2.2. WP2

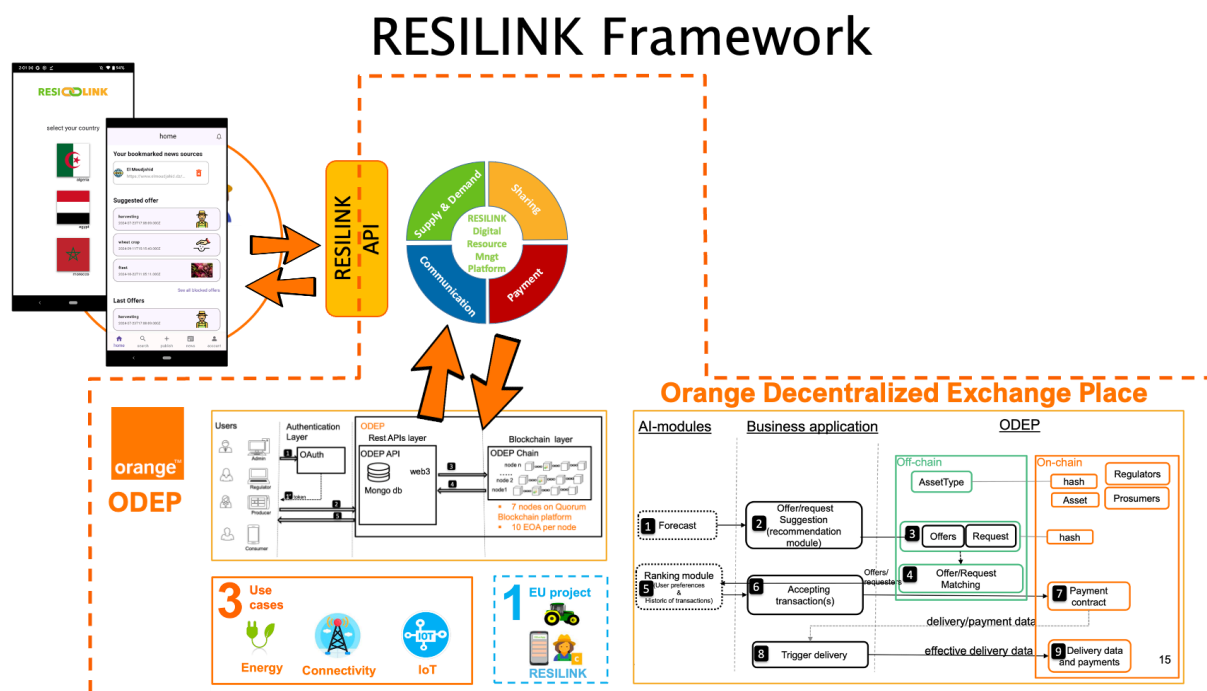
WP2 “Lightweight, Edge-enabled RESILINK resource sharing digital platform”

In the last year of the project, similarly to the third year, WP2 is still probably, with WP5, where the most effort has been devoted to continuously improving the RESILINK server and the RESILINK mobile application with new functionalities from feedback of the Evaluation Program and the Living Lab program.

2.2.1. RESILINK server

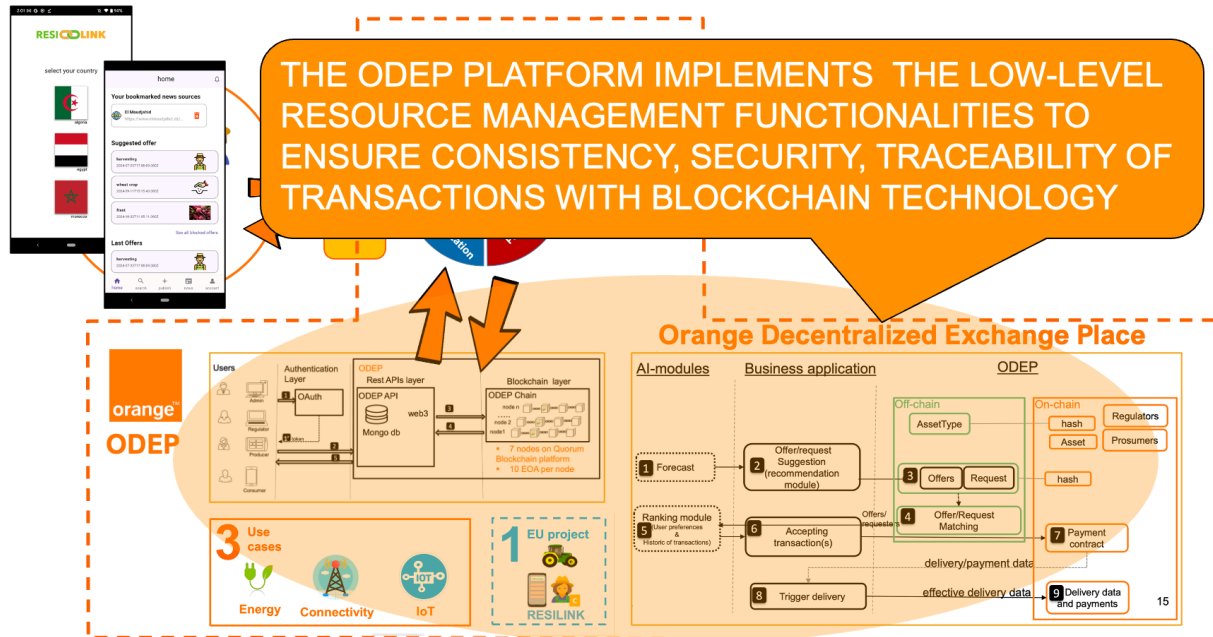
The final architecture of the RESILINK digital platform v3 consists in 3 components that are interacting but developed separately: **the low-level ODEP** (Orange Decentralized Exchange Place), the **intermediate RESILINK server** exposing an open API and the **RESILINK mobile application**.

Big picture with the 3 components: low-level ODEP, RESILINK server and mobile app



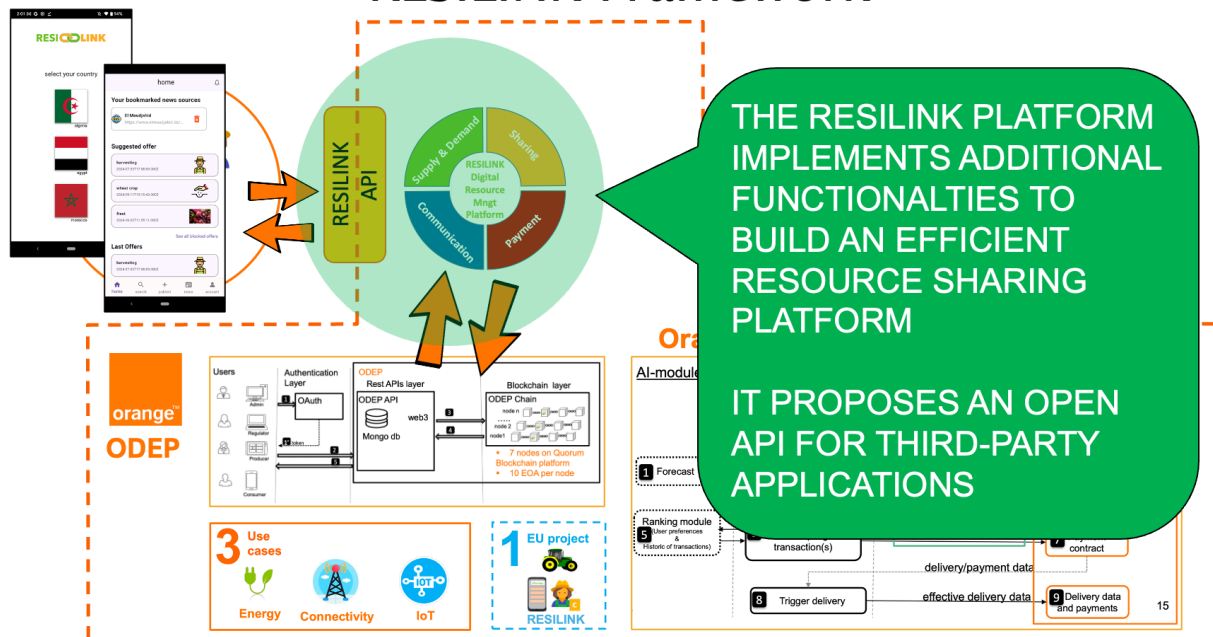
ODEP layer

RESILINK Framework



RESILINK platform

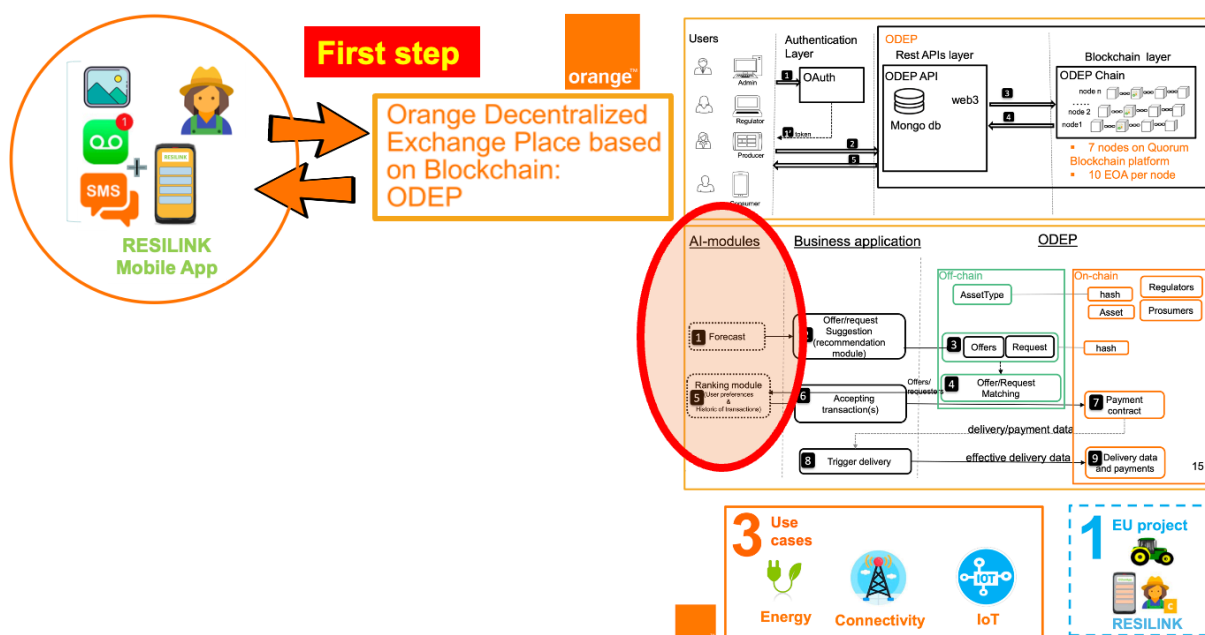
RESILINK Framework



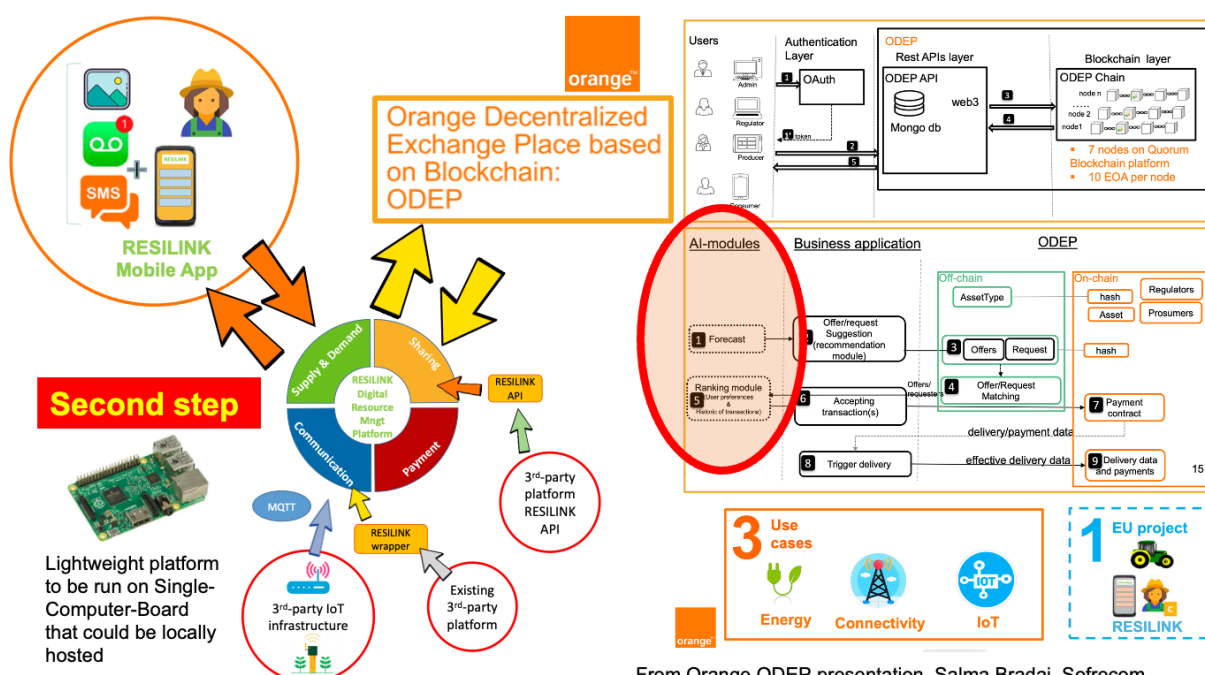
The evolution of the RESILINK framework, from v1 to v3, is summarized below:

RESILINK platform – v1

RESILINK implements a dedicated intermediate RESILINK platform to serve as a front-end to the ODEP platform. The illustration below depicts this concept: the first step was the proof-of-concept demonstrator at the very beginning of the project – it was v0.



From Orange ODEP presentation. Salma Bradai, Sofrecom



From Orange ODEP presentation. Salma Bradai, Sofrecom

In the second step (RESILINK platform v1) The RESILINK platform will function as an API intermediary between the ODEP API and the RESILINK mobile application.

RESILINK platform – v2

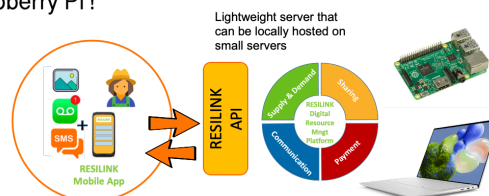
The main motivations behind all these improvements towards the RESILINK platform v2 are to:

1. Provide a very lightweight server that could be deployed out-of-the-box on laptops or even single board computers such as a Raspberry Pi
2. This lightweight server should be able to manage most of RESILINK platform core functionalities: news feeds, publication of offers, search for offers and contact users
3. Enable the deployment of several lightweight RESILINK servers, where each server could have a geographical scope to efficiently manage crisis in a very local manner
4. Incremental deployment of servers could then be also enabled to provide a very level of flexibility
5. Enable a full platform-of-platforms approach where the RESILINK server can be deployed, possibly adapted and used, through the proposed open API, for other applications, thus stimulating local innovation

These motivations were actually defined from the very beginning of the project as illustrated by the following 2 slides that were presented during various dissemination events and workshops.

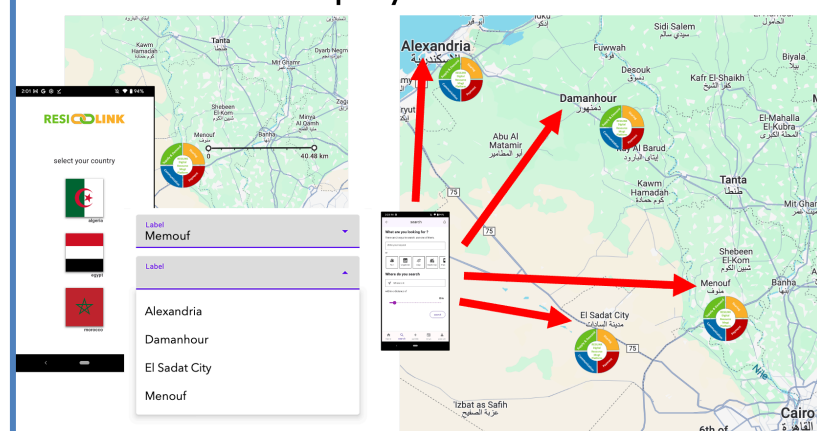
Light-weight servers & fast deployment

- The RESILINK digital platform server can run on a small server, even on a Raspberry Pi !



- A RESILINK server can be **locally deployed** by local city government agencies, agriculture cooperatives, agriculture services, ... in 1 hour!

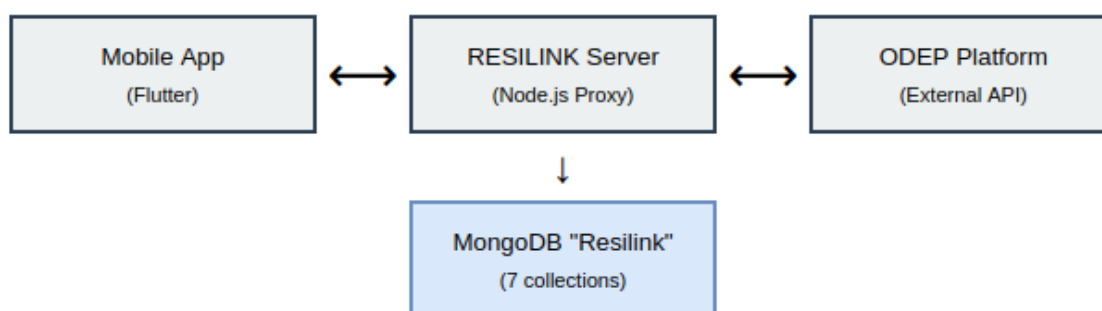
Incremental deployment



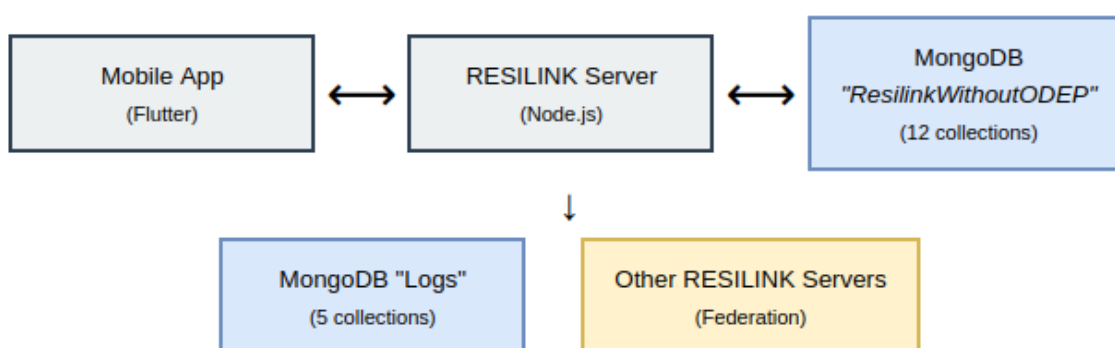
RESILINK platform – v3

The RESILINK platform v3 represents a major evolution from the previous version. Since v2, the RESILINK platform has existed in two variants: one that integrates with the ODEP infrastructure for blockchain-backed transaction management, and one that operates autonomously without ODEP. The autonomous variant was designed to replicate the core functionalities of ODEP (asset and offer management, user profiles) while excluding transaction-related features such as contracts, requests, and regulator endpoints. In v3, this autonomous variant has been significantly enhanced with new features -- federation, recommendation engine, advanced security -- making it a fully self-contained middleware that can be deployed independently on lightweight hardware. The following diagram illustrates the ODEP-integrated variant:

ODEP-Integrated Variant (main branch)



In v3, the autonomous variant has been substantially enriched. While it already handled data operations locally in v2, the v3 version **adds federation, recommendation, advanced security, and other features** described in this section:



Architecture v3 autonome

RESILINK platform v3 adds:

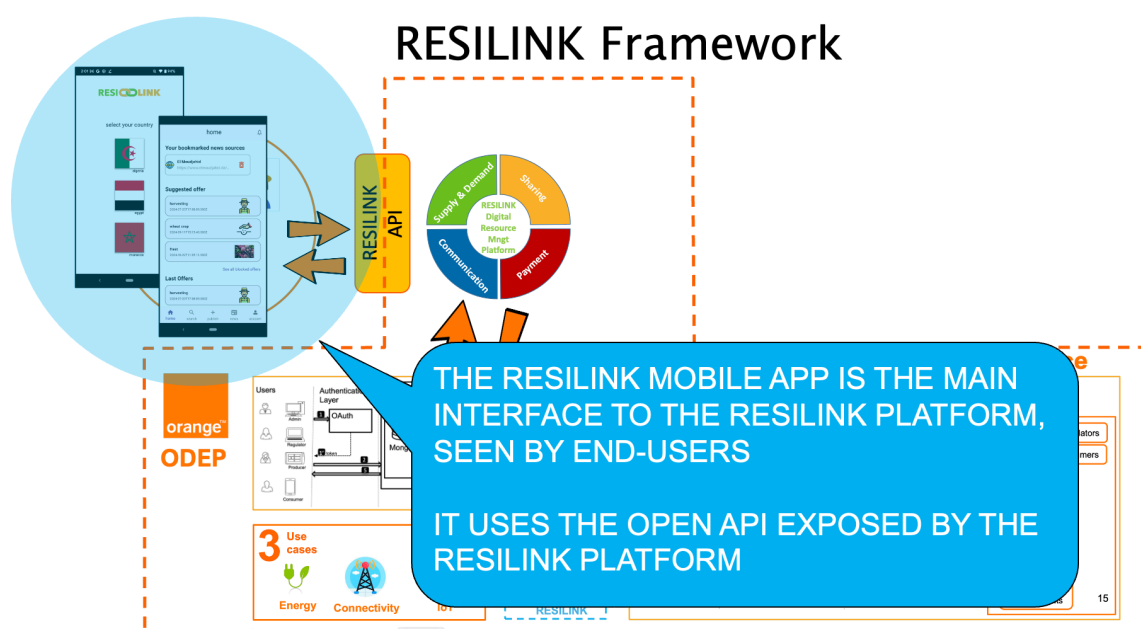
- **Extended Data Model** to better support (i) offer recommendation system and (ii) multiple servers federation to enable the platform-of-platforms approach.
- **Extended API Surface**, growing from approximately 30 endpoints across 7 route groups to over 80 endpoints across 13 route groups.
- **Multi-Server Federation**. One of the most innovative features of v3 is its support for multi-server federation. This mechanism allows independent RESILINK deployments to form networks, enabling users on one server to discover offers published on other servers. This feature is the cornerstone of our “platform-of-platforms” approach.
- **Security Enhancements**: Password Hashing, Data Encryption, JWT Authentication, Configurable Access Control and Structured Logging.
- **Recommendation System**. The v3 platform includes a built-in recommendation engine designed to improve user experience as the marketplace grows with Real-time tracking and Daily aggregation.
- **Offer Lifecycle Management** with Auto-Increment Identifiers, Offer Blocking, Validity Management and Sharing Control.

The latest documentation on the RESILINK server’s architecture can be found in:

- D2.2c “RESILINK resource sharing digital platform – v3”
URL: <https://resilink.eu/wp-content/uploads/2026/04/D2.2c.pdf>

The deployed v3 platform is currently being used in a closed testing phase through the Google Play Store. Feedback collected throughout this period has indicated stable behavior and an absence of major technical issues. The system has demonstrated consistent performance during extended and varied usage conditions, validating the reliability of the platform for Living-Lab deployments.

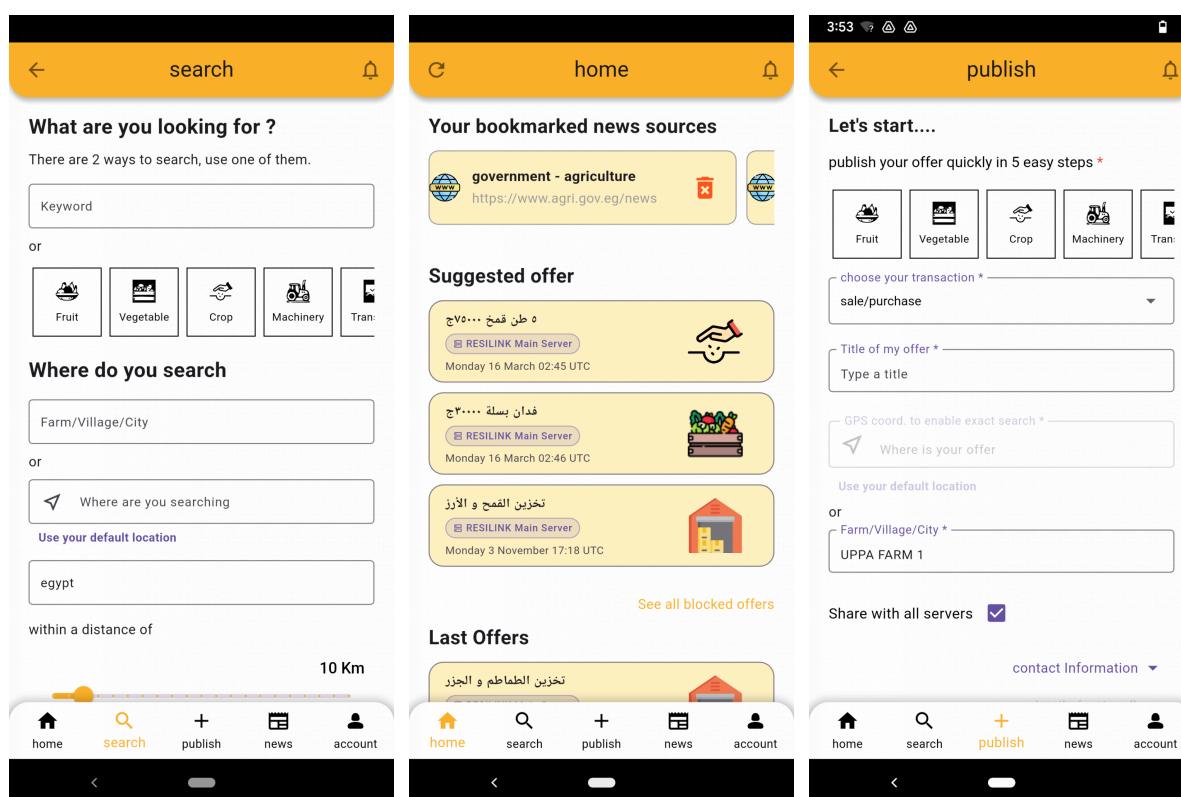
2.2.2. RESILINK mobile application



In this last year, the RESILINK mobile application has been greatly improved with:

- Improved UI/UE, more intuitive and simpler page, reducing time of posting new offers
- 8 help screens in both English and Arabic
- Better support of multi-language
- Offer recommendations system
- Support for multi-server federations

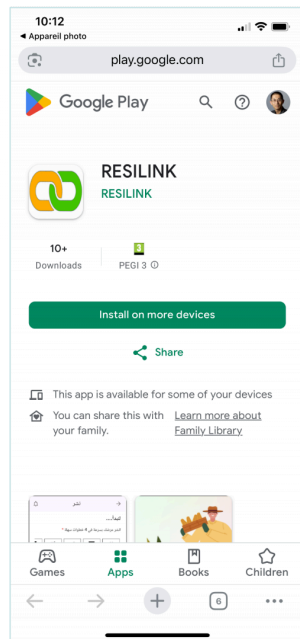
Below are some screenshots of the RESILINK mobile application. More screenshots can also be found in the following post on the RESILINK web site: <https://resilink.eu/screenshots-of-the-resilink-mobile-app>



One of the main achievements was to have the RESILINK mobile application on the Google Play Store.

The dedicated deliverable **D2.4b “Final report on test and validation of the full RESILINK framework”** describes all the testing phases required for the Google Play Store: <https://resilink.eu/wp-content/uploads/2026/04/D2.4b.pdf>

RESILINK MOBILE APP ON GOOGLE PLAY



INSTALL THE APP

CREATE AN ACCOUNT

AND START PUBLISHING OFFERS

TO CREATE A COMMUNITY



FLASH TO INSTALL

2.3. WP3

WP3 “Contextual intelligence for automatized, correlated and smallholder-centric resource sharing”

Regarding T3.1 & T3.2 on IoT automation, RESILINK decided to cancel these activities that are found not suitable for the smallholder context. Instead, the development efforts will be put on developing an efficient recommendation system for the RESILINK server.

Following the decision to develop an efficient recommendation system for the RESILINK server instead of the ambitious contextual intelligence, WP3’s activities have focused on (i) defining a new data model that would enable the recommendation system and (ii) take care that the recommendation system support the multi-server federation approach.

For those purposes, recommendation engine has been implemented to tailor suggestions both to individual users and to global application trends across asset types. To support this feature, two new collections were introduced into the database: **RecommendationStats** for user-specific metrics, and **GlobalRecommendation** for aggregated application-wide statistics.

Example of a RecommendationStats entry:

```
{
  "_id": { "$oid": "69149b87708b451d10810054" },
  "name": "acazaux",
  "totalOffersCreated": 30,
```

```

"assetType": {
  "Fruit": 12, "Vegetable": 9, "Crop": 4, "Machinery": 4,
  "Transport": 3, "Inputs": 2, "Storage": 5, "Labor": 3,
  "Other services": 3, "Livestock": 2
},
"lastUpdated": "2025-11-25T14:08:10.374Z"
}

```

Example of a GlobalRecommendation entry:

```

{
  "_id": { "$oid": "6915f9e819bbf4d49698bcb0" },
  "assetType": {
    "Fruit": 45, "Vegetable": 30, "Crop": 30, "Machinery": 10,
    "Transport": 9, "Inputs": 0, "Storage": 18,
    "Labor": 23, "Other services": 5
  },
  "lastUpdated": "2025-11-13T09:09:53.163Z"
}

```

The separation into two collections allows for simpler updates and future refinements, particularly regarding global recommendations. User preferences are updated whenever a user creates an offer or views a specific offer within the mobile application. Each interaction increases the weight associated with the corresponding asset type, progressively modeling user interest.

Global preferences, on the other hand, are computed through a scheduled CRON task that sums asset-type weights across all users. These global weights are used when the user is not authenticated in the application. For authenticated users, the recommendation score is computed as a weighted combination: **70% user-specific preferences and 30% global preferences**, introducing diversity and encouraging discovery. The full suggestion mechanism is implemented and functional in the development environment.

The dedicated deliverable D2.4b “Final report on test and validation of the full RESILINK framework” describes the proposed recommendation system along with the validation tests: <https://resilink.eu/wp-content/uploads/2026/04/D2.4b.pdf>

2.4. WP4

WP4 “General project communication, capacity building, tech-community engagement & partnerships for the platform-of-platforms approach”

The large part of the work conducted in WP4 for this last year was producing contents and communication materials for the Living-Lab program, the RESILINK mobile application

improvements, the initiatives conducted within the Resilient Smallholder Initiative and the organization of the final events in Egypt and Morocco.

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ROLL-UP AND BANNER FOR DISSEMINATION EVENTS, WITH QR CODE ON GOOGLE PLAY

- [160cm x 55cm banner in .pdf](#) with the QR code to download & install the RESILINK mobile app from Google Play
- [55cm x 160cm roll-up in .pdf](#) with the QR code to download & install the RESILINK mobile app from Google Play
- [85cm x 200cm roll-up in .pdf](#) with the QR code to download & install the RESILINK mobile app from Google Play

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FINAL EVENT AT UNIVERSITY SULTAN MOULAY SLIMANE (USMS) IN BENI-MELLAL, MOROCCO
MAY 12TH, 2026

[LOOK AT THE PROGRAM](#)

FINAL EVENT AT AASTMT IN ALEXANDRIA, EGYPT
MARCH 31ST, 2026
JOIN US AT THE HOPE26 CONFERENCE!

DOWNLOAD THE [CONFERENCE PROGRAM](#) WITH THE LINK FOR THE ONLINE PARTICIPATION

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HOME

OBJECTIVES

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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

RESILINK

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

HOME

OBJECTIVES

CONCEPTS

CONSORTIUM

PILOTING

RESULTS

DOCUMENTS

Get the [RESILINK presentation for dissemination purposes](#). The slides presents the project's objectives and the innovations behind the app. It also explains how interested persons can help testing and providing feedback.

RESILINK

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

RESILINK

RESILINK MOBILE APP ON GOOGLE PLAY

INSTALL THE APP

CREATE AN ACCOUNT

AND START PUBLISHING OFFERS

TO CREATE A COMMUNITY

FLASH TO INSTALL

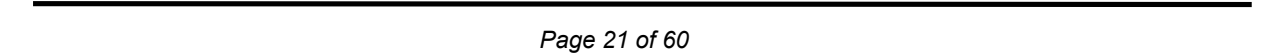
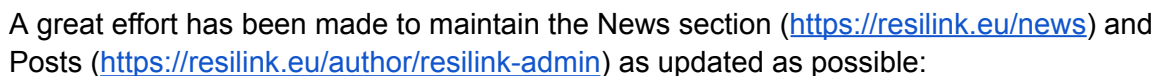
RESILINK

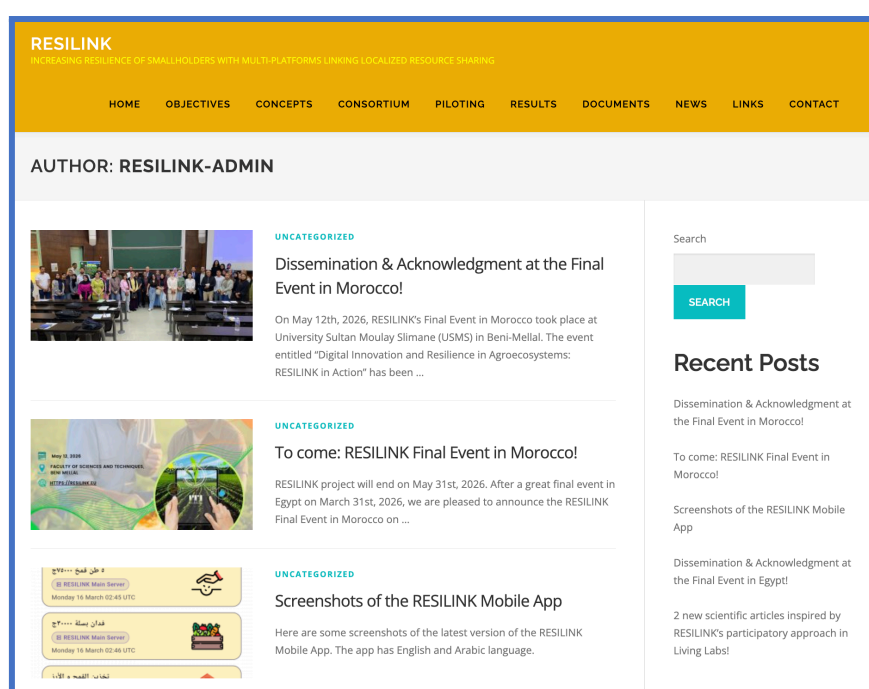
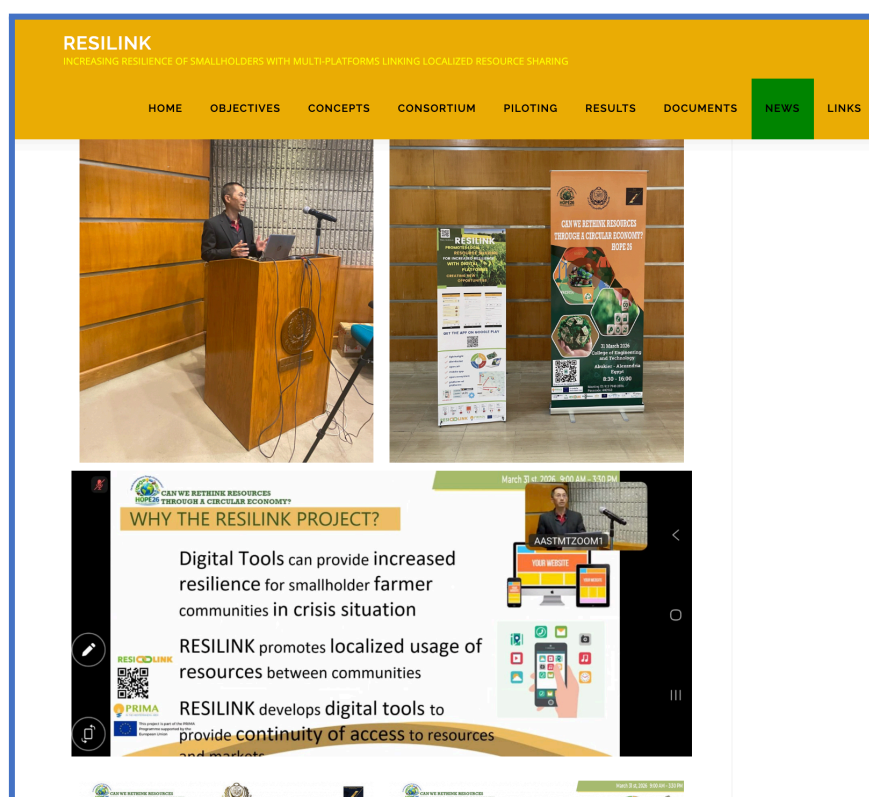
ACT AS A FARMER!

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





All the communication and dissemination activities for the final year are described in more details in:

- **D4.1f “Final report on communication and dissemination activities”**

URL: <https://resilink.eu/wp-content/uploads/2026/09/D4.1f.pdf>

2.5. WP5

WP5 “Living-Lab piloting and large-scale evaluation program”

After the large-scale Evaluation Program that has been described in detail 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>

The last year of the project has been devoted to run the Living-Lab (LL) program as well as advertising all the steps and achievements of the LL program on the News section, preparing the final events that will conclude the LL program.



LIVING-LAB MEMO

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

This memo

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

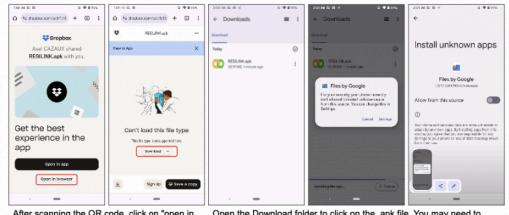
The RESILINK mobile application will allow you to **publish & search for resources**

It **connects smallholders to new supply**, sharing **opportunities & distribution channels**, keeping you informed of **news/alerts/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, ...



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

Download app (.apk package)

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, mmalouf, ...

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

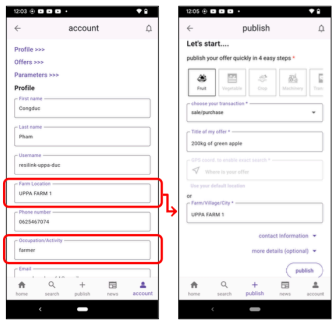
You can enter a fake phone number: 123456789. But if you want to use WhatsApp for contact it is better to use your real phone number

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

View evaluation feedback form

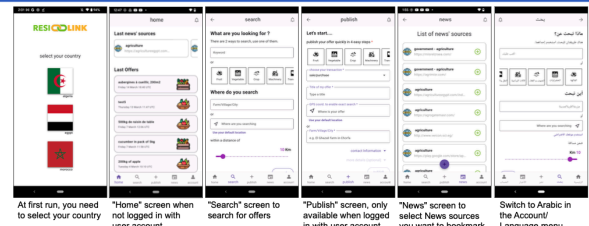
LIVING LAB MEMO

QUICK START



Enter the name of your farm in your account and it will automatically be used when you publish an offer

Enter the main activity to facilitate identification of offers that might be interesting for your activity



At first run, you need to select your country

"Home" screen when not logged in with user account

"Search" screen to search for offers

"Publish" screen, only available when logged in with user account

"News" screen to select News sources you want to bookmark

Switch to Arabic in the Account/ Language menu

You can quickly search by "Keyword", for instance "apple"

or search by category

you can also indicate a location, for instance "UPPA", to get all offers with location matching "UPPA"

In the "Title of my offer", try to indicate in a synthetic manner what your offer is:

→ 200kg of green apple
→ 5 cold storage rooms
→ 1 tractor with driver

If you are where your offer is, you can click on "📍" to set the GPS coordinates of where you are now. Otherwise, simply indicate the location in "Farm/Village/City"

→ Sidi Ali farm
→ El Ghazali farm in Chorfa

In "more details" you can add more information & photo:

→ gala apple
→ to be picked yourself



The main steps and achievements of the activities related to the LL program conducted in the last year are described in:

- **D5.3c “Synthetic Report on 3 years of Smallholder Living-Lab Piloting Program and large-scale evaluation”**

<https://resilink.eu/wp-content/uploads/2026/09/D5.3c.pdf>

2.6. WP6

WP6 “Project management”

The works conducted in WP6 are all aspects of project monitoring & management as well as engagement of project partners. For the last year, 7 technical meetings, 1 general meeting and 2 ambitious final events, have been organized to plan and define the activities that must be conducted during the Living Lab program to regularly engage project partners.

LIST OF MEETINGS/EVENTS

TM-OPEN-API-SEP-25	03/09/25	Open API and new functionalities	Orange, UPPA
GM-ONLINE-NOV-25	19/11/25 online	Feedback on Living-Labs, preparation of final events	ALL
TM-ORANGE-NOV-25	18-20/11/25 at UPPA	UI/UX, Orange application demonstrators	Orange, UPPA
TM-PARTNERSHIP-ORANGE	12/12/2025 online	Discussion on a partnership with Orange Guinea	Orange, UPPA
TM-LIVING-LAB-EGYPT	04/02/26	Discussion on Living-Lab activities in Egypt	UPPA, ARC, ACICT
TM-LIVING-LAB-MOROCCO	05/02/26	Discussion on Living-Lab activities in Morocco	UPPA, INRA, USMS
TM-LIVING-LAB-ALGERIA	10/02/26	Discussion on Living-Lab activities in Algeria	UPPA, UMCM
TM-WEBINAR-AI	10/02/26	Webinar on development of applications using Copilot AI	ALL+external participants, animated by Orange
FINAL-EVENT-EGYPT	31/03/2026	Final event in Alexandria hosted by ACICT	ALL
FINAL-EVENT-MOROCCO	12/05/2026	Final event in Beni-Mellal hosted by USMS	ALL

3. SUMMARY OF MAIN ACTIVITIES DURING LAST YEAR

We summarize in this section the main activities conducted in the last year and their main results. We provide for each activity the link to the dedicated deliverables where more detail could be found.

3.1. Living-Lab program

With feedback and synthesis from the Evaluation Program, RESILINK launched the Living-Lab program from January 2025 to January 2026. For the period related to the last year project (from June 2025 to January 2026) 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>



RESILINK 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

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

RESILINK 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

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

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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

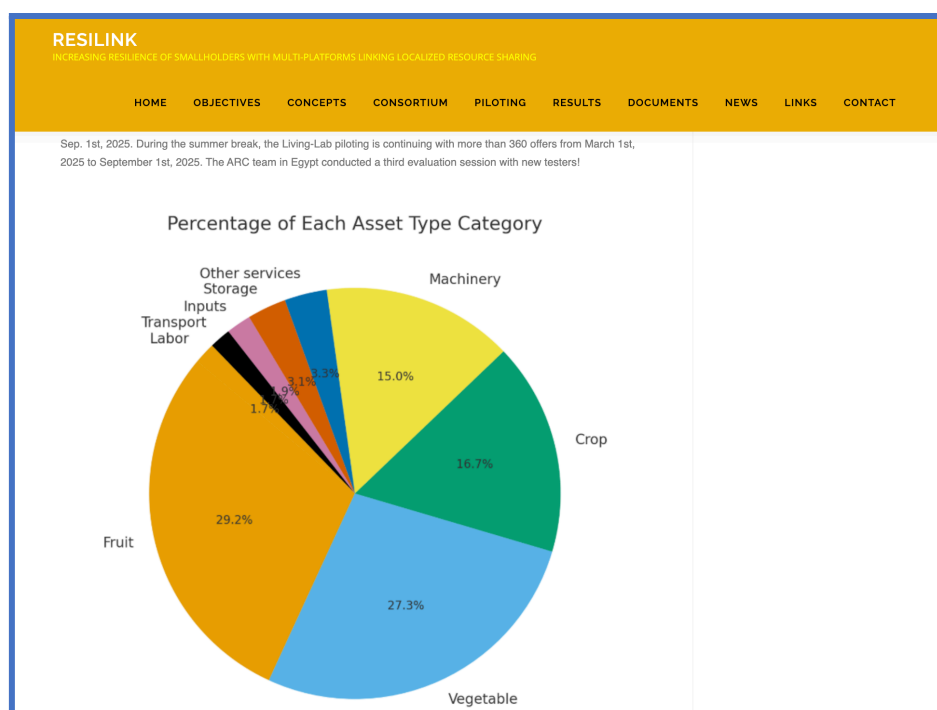
Dissemination & Acknowledgment at the Final Event in Morocco!

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!



During the final events in Egypt and in Morocco, 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>

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




CAN WE RETHINK RESOURCES THROUGH A CIRCULAR ECONOMY?

RESILINK: LIVING-LABS

1 year Living-Labs participatory program, Jan. 25 to Jan. 26

Several sessions from 2 weeks to 3 months

Algeria, Egypt & Morocco: +130 farmers, +25 stakeholders & decision-makers




This project is part of the PRIMA Programme supported by the European Union

March 31 st, 2026 9:00 AM – 3:30 PM



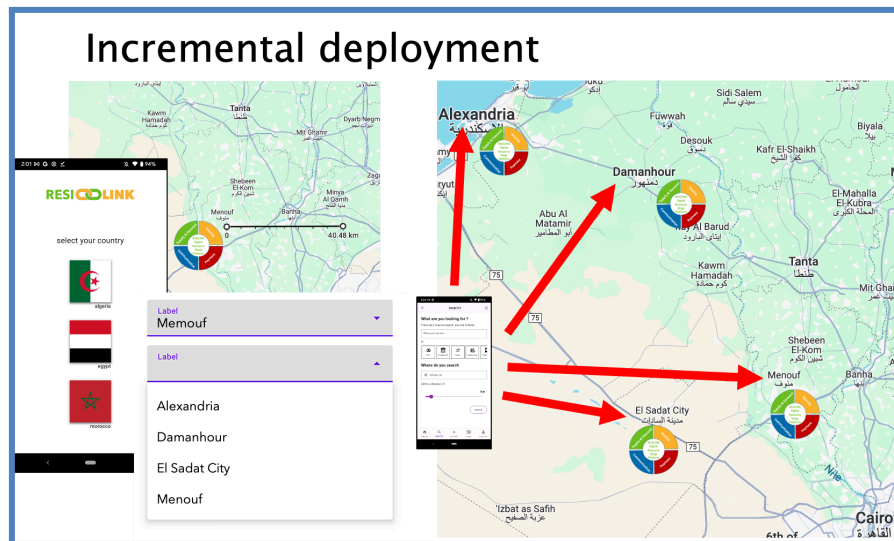
More information on the Living Lab program can be found in:

- **D5.3c “Synthetic Report on 3 years of Smallholder Living-Lab Piloting Program and large-scale evaluation”**

<https://resilink.eu/wp-content/uploads/2026/09/D5.3c.pdf>

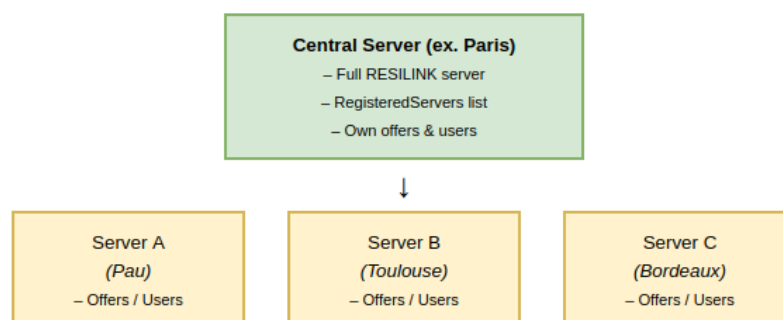
3.2. Multi-server federation

One of the main contributions towards the RESILINK's approach of "platform-of-platforms" is to allow independent RESILINK deployments to form networks, enabling users on one server to discover offers published on other servers. This feature is illustrated below, where several servers are deployed in an incremental manner, according to new needs.



The federation operates with a central server that acts as a directory for the network. Each server wishing to join registers itself with this central server. The central server is itself a full RESILINK instance with its own offers and users; it additionally maintains the list of all registered servers.

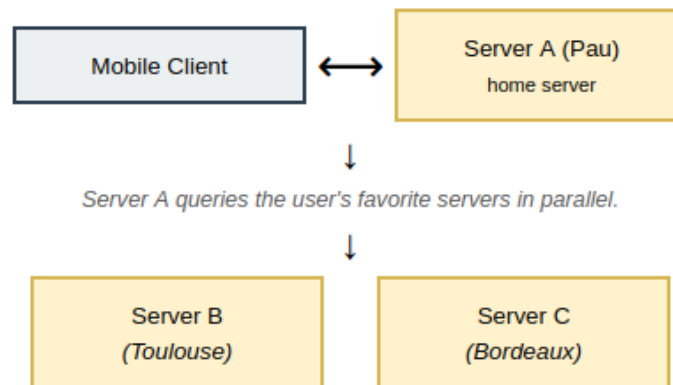
Federation Network Topology



Inter-server communication is authenticated using a shared secret (the RESILINK network key), passed as a dedicated HTTP header, ensuring that only servers belonging to the same trusted network can exchange data.

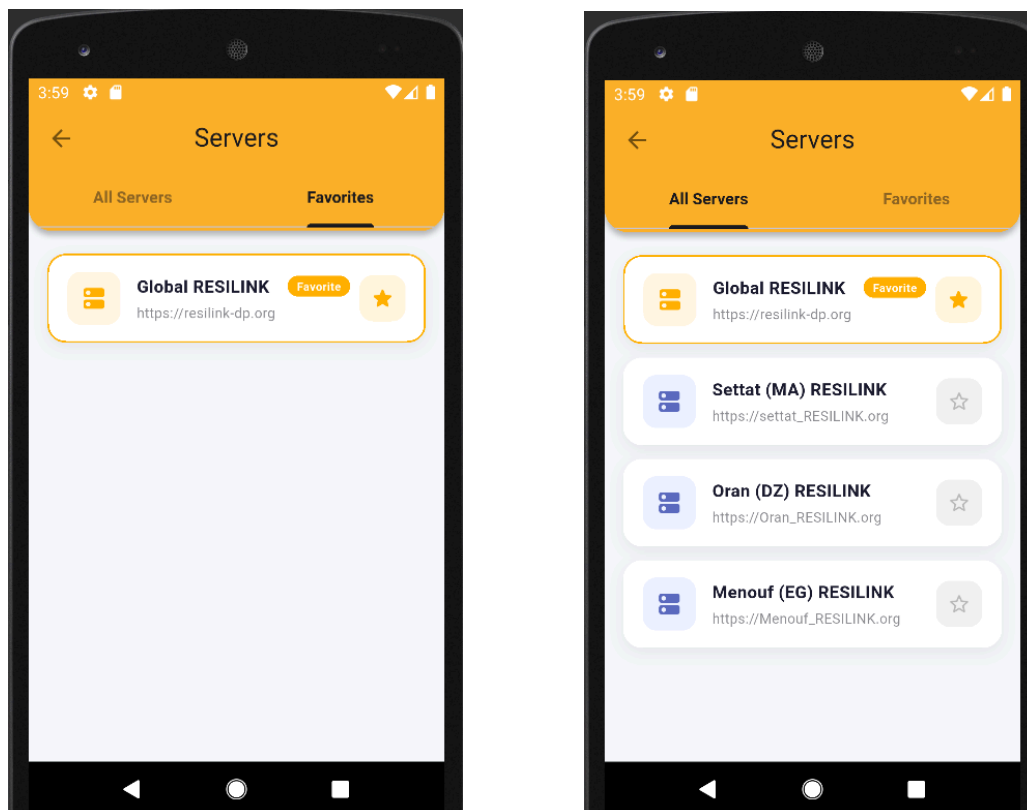
The federation supports flexible topologies: a single central registry with multiple leaf servers, multiple independent networks with separate keys, geographic partitioning by region, or domain specialization where different servers handle different resource categories.

User interaction

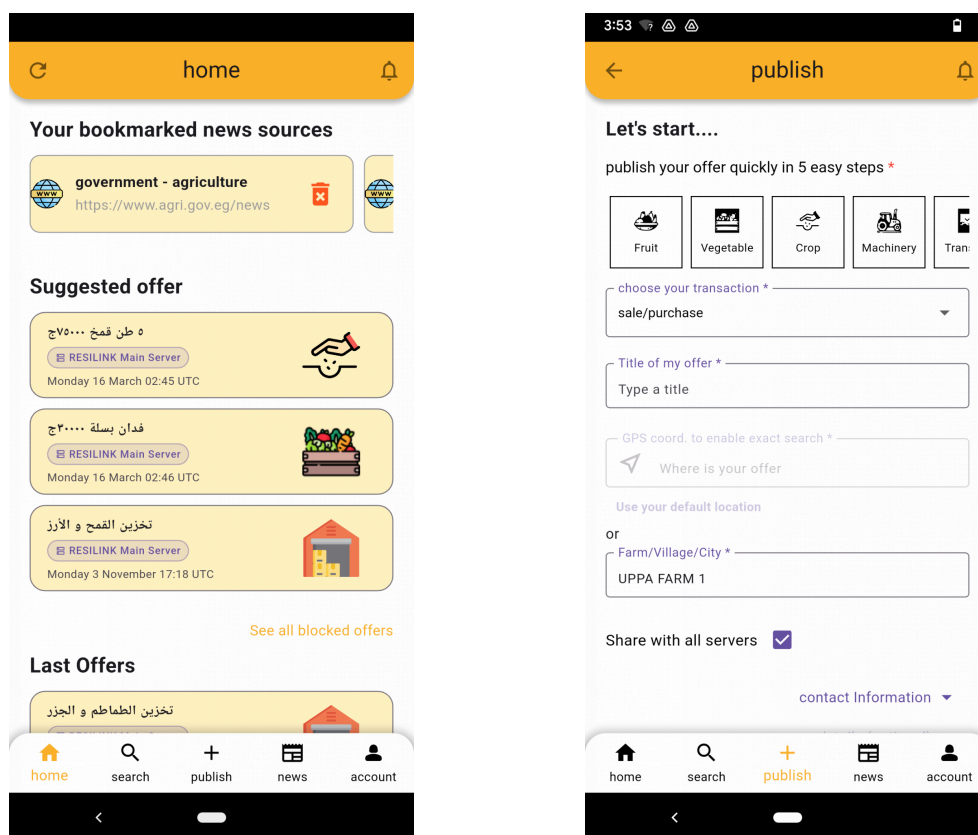


The mobile application always communicates with a single server (the user's home server). When a user requests federated offers, it is the home server that queries the user's favorite external servers in parallel, filters out blocked offers, merges the results with its own local offers, and returns a consolidated response to the client.

Although the improvements to the RESILINK Mobile Application will be discussed in more detail in the next section, below is illustrated the Multi-Server Federation functionality of the RESILINK platform v3 that is integrated into the mobile application.



Offers are then tagged with the server they come from and when publishing an offer, one can select the offer to be shared on other servers.



More detailed information on the multi-server can be found in:

- **D2.2c “RESILINK resource sharing digital platform – v3”**
URL: <https://resilink.eu/wp-content/uploads/2026/04/D2.2c.pdf>

3.3. RESILINK mobile app on Google Playstore

One of the main achievements for this last was the publication of the RESILINK mobile application on the Google Play Store. This process follows the official distribution framework established by Google. The overall process can be divided into three main stages where the last 2 stages were the most demanding :

- Application setup in the Google Play Console
- Compliance and release preparation
- Testing and deployment

For “Compliance and release preparation”, Google Play applies strict requirements intended to ensure user safety, responsible data processing, and compliance with international regulations (including GDPR for European users). Therefore, the application was updated to comply with these requirements. For instance, we added “Embed Rules & Privacy Policy” pages inside the app.

For the test stage, before making the application publicly available, Google requires controlled testing phases:

- Internal testing for rapid iterative evaluation,
- Closed testing with selected testers — used in the case of the RESILINK Living-Lab deployments,
- Optional open testing for broader early access.

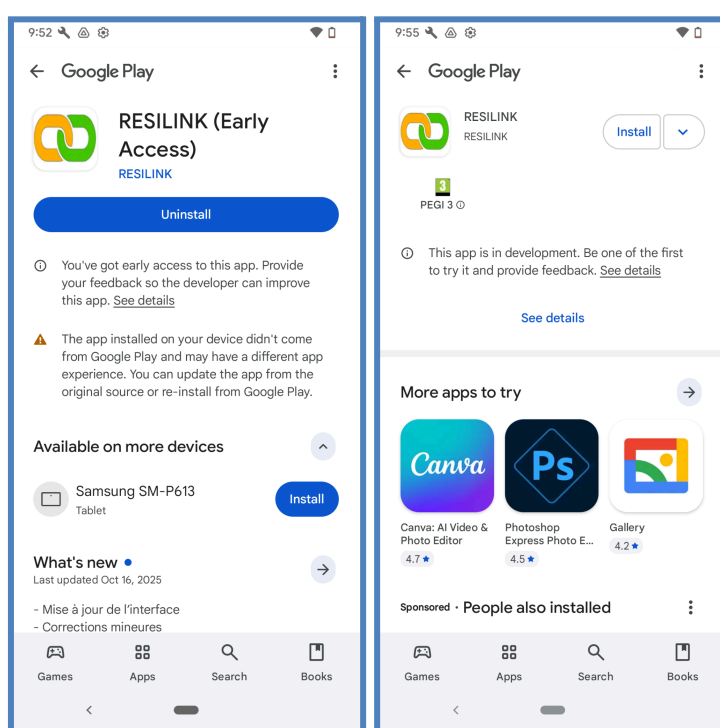
In the closed testing track, Google may require a minimum number of active testers over a continuous period to ensure the application demonstrates stable real-world usage before being eligible for full production release.

After testing feedback is integrated, the application is submitted for Google's review, which includes automated checks and manual assessment of:

- Technical quality and stability,
- Policy and security compliance,
- Appropriateness of user experience and content.

The closed tests have been realized with about 18 testers, from RESILINK partners and from an external test service. Each tester is registered by RESILINK with a valid gmail email address to be allowed to get access and install the temporary RESILINK application from Google Play.

If approved, the application is promoted to Production, becoming available to the selected geographic distribution regions. Post-release monitoring and maintenance are then conducted through analytics tools integrated within the Play Console.



The dedicated deliverable **D2.4b “Final report on test and validation of the full RESILINK framework”** describes all procedure including the testing phases required for the Google Play Store: <https://resilink.eu/wp-content/uploads/2026/04/D2.4b.pdf>

3.4. Improvement of the RESILINK mobile application

During the Living Lab program, and even after the RESILINK mobile application has been registered and finally available from the Google Playstore, we continuously improved the application. Here are the main lines for improvement:

- **Improved UI/UE**, more intuitive and simpler page, reducing time of posting new offers
- **8 help screens** in both English and Arabic

<https://resilink.eu/resilink-mobile-app-helper-screens>



- **Better support of multi-language** where the language for the application is determined automatically from the smartphone system's setting, this allows for help screens to be in the correct language right at the beginning for instance

- **Offer recommendations system.** The v3 platform includes a built-in recommendation engine designed to improve user experience as the marketplace grows. The system operates in two stages:

1/ Real-time tracking: every time a user views an offer, the system records which asset type was consulted, incrementing a per-user counter in the RecommendationStats collection.

2/ Daily aggregation: a scheduled CRON job aggregates individual statistics into the GlobalRecommendationStats collection, producing a platform-wide view of the most-consulted categories and most active offer creators.

The mobile application collect these statistics to display personalized "recommended for you" sections based on the user's browsing history, and for example, a "trending categories" sections based on platform-wide activity can be implemented.

- **Support for multi-server federations** (see Section 3.3)

More detailed on all the improvements can be found in:

- **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 and validation of the full RESILINK framework”**
<https://resilink.eu/wp-content/uploads/2026/04/D2.4b.pdf>

3.5. Testing the open API for third-party applications

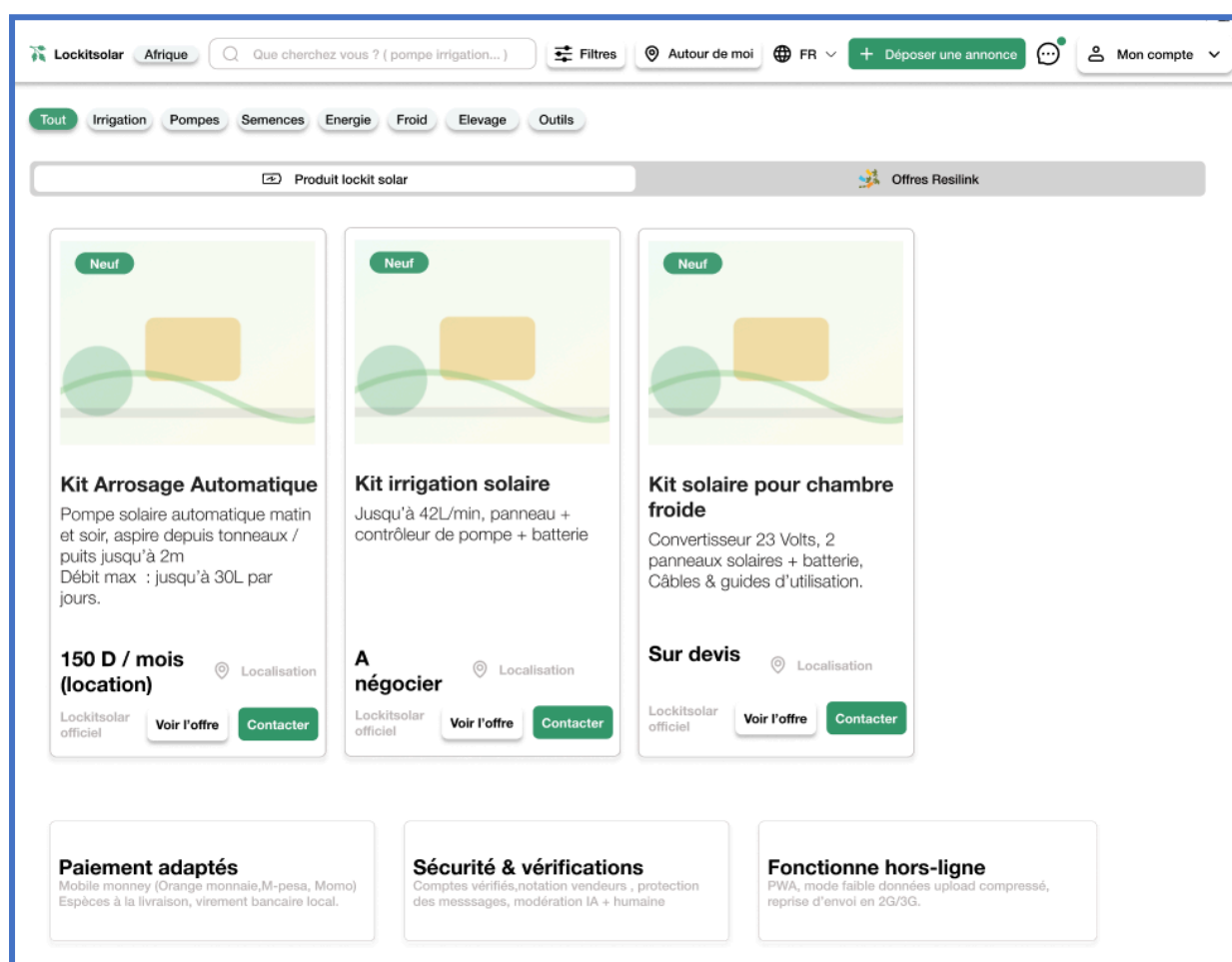
As part of the RESILINK’s “Platform-of-Platforms” approach, one of the objectives is to facilitate the development of third-party applications in other application domains to build resource sharing digital platforms based on the RESILINK’s API and server. This open API has been extended in the RESILINK platform v3, growing from approximately 30 endpoints across 7 route groups to over 80 endpoints across 13 route groups. The following table summarizes the route groups and their scope:

Route Group	Endpoints	Scope
User	10	Account creation, authentication, profile
Prosumer	15	Prosumer profiles, blocked offers, bookmarks
Asset	7	Asset CRUD, image upload/storage
AssetType	6	Asset type definitions
Offer	12	Local & federated offers, filtering
News	5	Community news and announcements
Rating	6	User ratings and feedback

Contract (stub)	4	Preserved for ODEP compatibility
Request (stub)	2	Preserved for ODEP compatibility
Regulator (stub)	2	Preserved for ODEP compatibility
RecommendationStats	5	Personal & global recommendations
RegisteredServers	5	Federation server registry
FavoriteServers	5	User favorite server management

In order to validate the open API, Orange proposed to develop the **LockKitSolar** demonstration application showcasing how to leverage the RESILINK API for building a solar product marketplace. It enables users to authenticate, browse a curated catalog of photovoltaic solutions, and complete purchases seamlessly. Built with Vue.js, the platform harnesses the RESILINK API to orchestrate data retrieval and core business operations.

LockKitSolar fulfills a pedagogical mission: serving as a blueprint for developers seeking to build their own services on the RESILINK API. Its modular, extensible architecture facilitates the addition of future features. The platform also functions as a reference implementation, documenting best practices for user authentication, data retrieval, and API operations.



Lockitsolar Afrique FR

Tout Irrigation Pompes Semences Energie Froid Elevage Outils

Neuf



Kit Arrosage Automatique
Pompe solaire automatique matin et soir, aspire depuis tonneaux / puits jusqu'à 2m
Débit max : jusqu'à 30L par jours.

150 D / mois (location) Localisation

Lockitsolar officiel

Neuf



Kit irrigation solaire
Jusqu'à 42L/min, panneau + contrôleur de pompe + batterie

A négocier Localisation

Lockitsolar officiel

Neuf



Kit solaire pour chambre froide
Convertisseur 23 Volts, 2 panneaux solaires + batterie, Câbles & guides d'utilisation.

Sur devis Localisation

Lockitsolar officiel

Paiement adaptés
Mobile money (Orange monnaie, M-pesa, Momo)
Espèces à la livraison, virement bancaire local.

Sécurité & vérifications
Comptes vérifiés, notation vendeurs, protection des messages, modération IA + humaine

Fonctionne hors-ligne
PWA, mode faible données upload compressé, reprise d'envoi en 2G/3G.

More detailed on the open API and how it was validate with a third-party applications can be found in:

- **D4.2b “Final report software templates demonstrating RESILINK's open API”**
<https://resilink.eu/wp-content/uploads/2026/09/D4.2b.pdf>

Additionally, to facilitate the deployment of new RESILINK servers for third-party applications, we produced a dedicated documentation covering installation of a new server from the GitHub repository. The detailed description of the installation procedures for all RESILINK platform components are therefore presented in a separate technical annex of D2.2c:

- **D2.2c - Annex “RESILINK resource sharing digital platform – v3”**
<https://resilink.eu/wp-content/uploads/2026/04/D2.2c-annex.pdf>

3.6. 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.

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
 LGPM
 MR. KRIS HEIRBAUT
 Heirbaut agriculture
 PROF. ALLA SILKINA
 Svenska University
 PROF. MOHAMED BOUAZIZ
 Arab Academy

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

PROF. MOHSEN ASSADI
 University of Stavange
 PROF. CONGDUC PHAM
 University of Stavange
 DR. MOHAMMAD MANSOURI
 University of Stavange
 PROF. RASHA ABDELAZIZ
 Arab Academy
 MR. MARK FREDERIK
 ariped
 DR. NAJLA TRABELSI
 Arab Academy
 PROF. NAHIA IZZELDIN ZAKOUC
 Arab Academy
 DR. RANIA ANSEM
 Arab Academy
 DR. AJMUD ABDELKEHIM
 Arab Academy

Hope for the Future Young Scientists Session

March 31, 2026
 08:30 - 16:00
 AASTMT - Alexandria, Egypt

Co-funded by the European Union

PRIMA

Online Participation Available

Meeting ID: 965 7946 2871
Passcode: 640968

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.



Final Event under the theme:
Digital Innovation and Resilience in Agroecosystems: RESILINK in Action

May 12, 2026
FACULTY OF SCIENCES AND TECHNIQUES,
BENI MELLAL
[HTTPS://RESILINK.EU](https://resilink.eu)

COORDINATION:
Prof. Mustapha Namous

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>



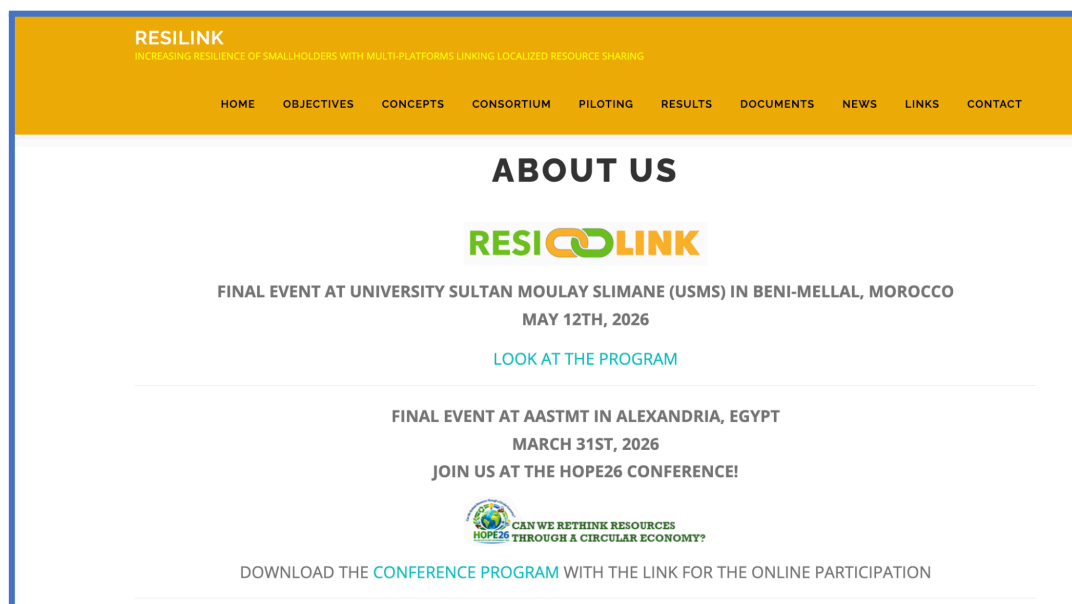


3.7. Communication & Dissemination activities

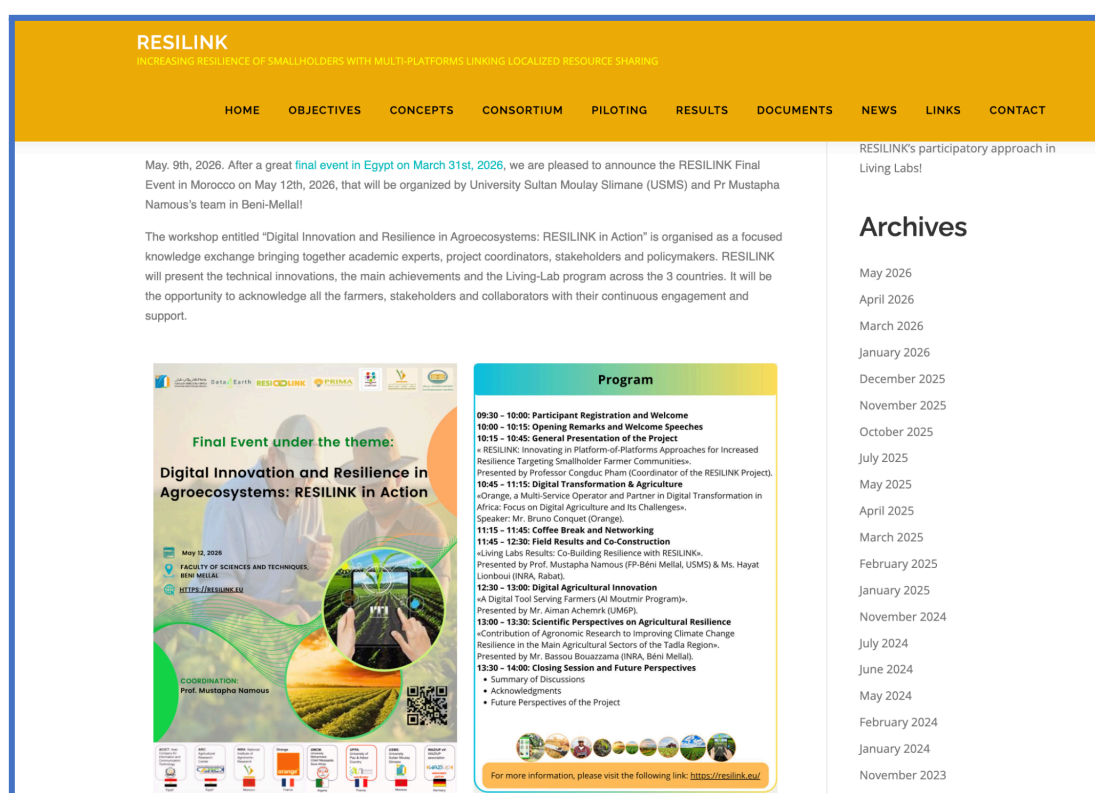
These activities are directly related to WP4.

The RESILINK web site is the main channel for listing information related to all the communication & dissemination activities of RESILINK: <https://resilink.eu>.

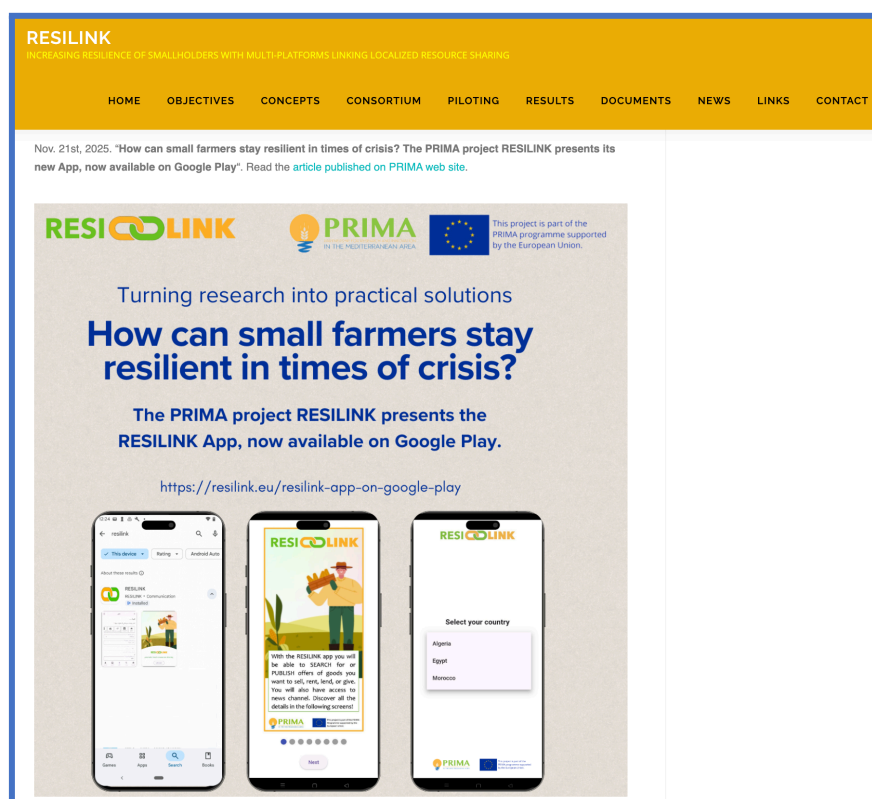
The **Final Events** are listed in the home page of the project, increasing visibility for these very important milestones.



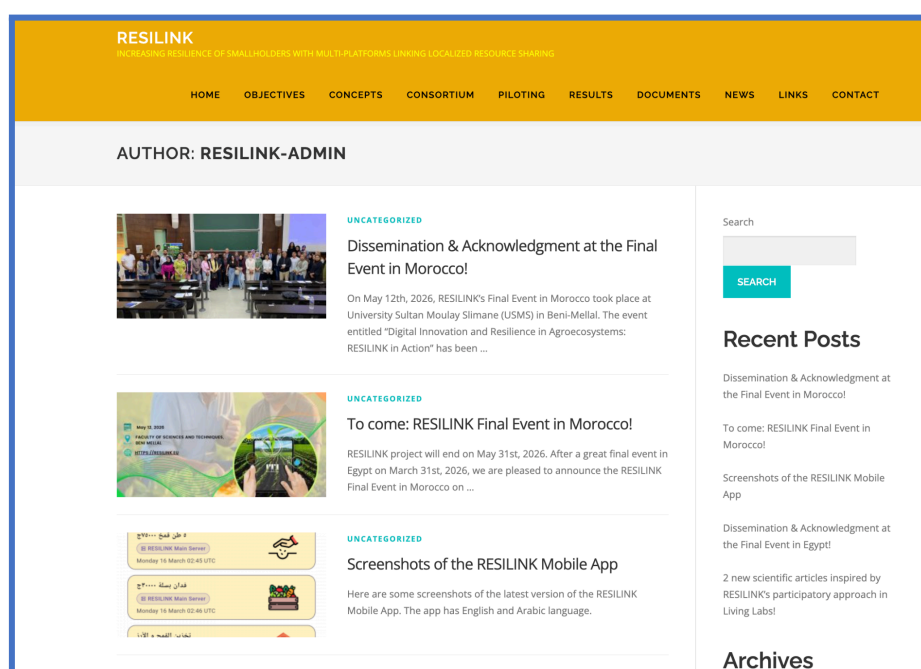
Important news are listed in the News section of the web site: <https://resilink.eu/news>



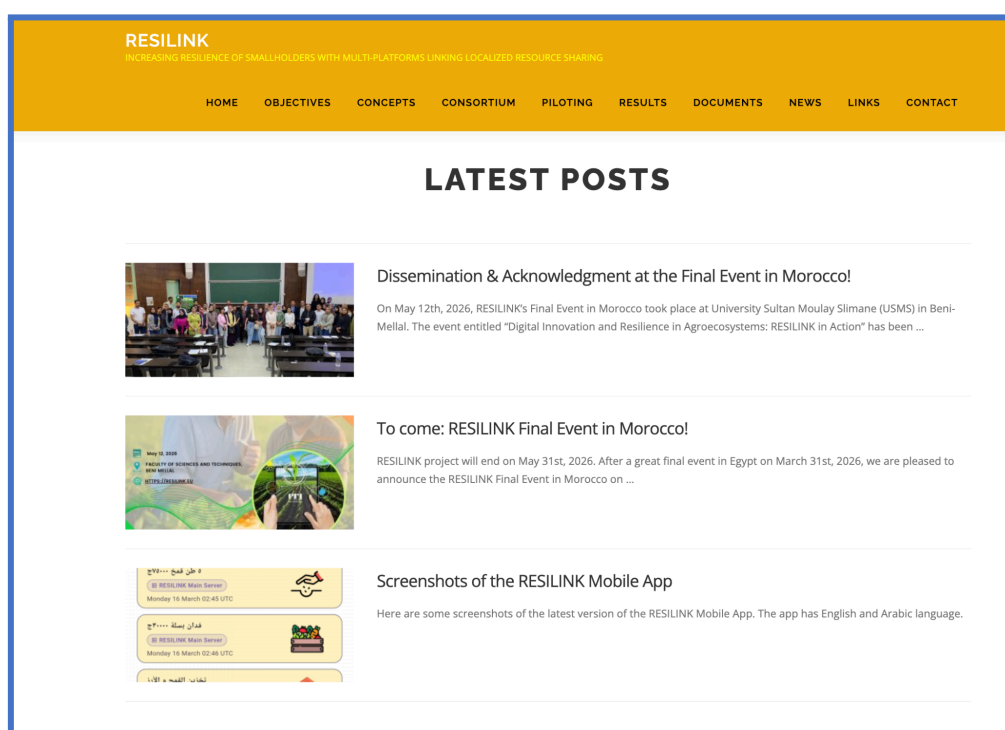
For instance, below is the news from PRIMA who helped us to advertise the RESILINK mobile application for Living Lab testing. Original page from PRIMA at <https://prima-med.org/how-can-small-farmers-stay-resilient-in-times-of-crisis-the-prima-project-resilink-presents-its-new-app-now-available-on-google-play/>



Some news are also produced as posts in order to have a dedicated link for better advertisement. All posts are available on the project web site: <https://resilink.eu/author/resilink-admin>



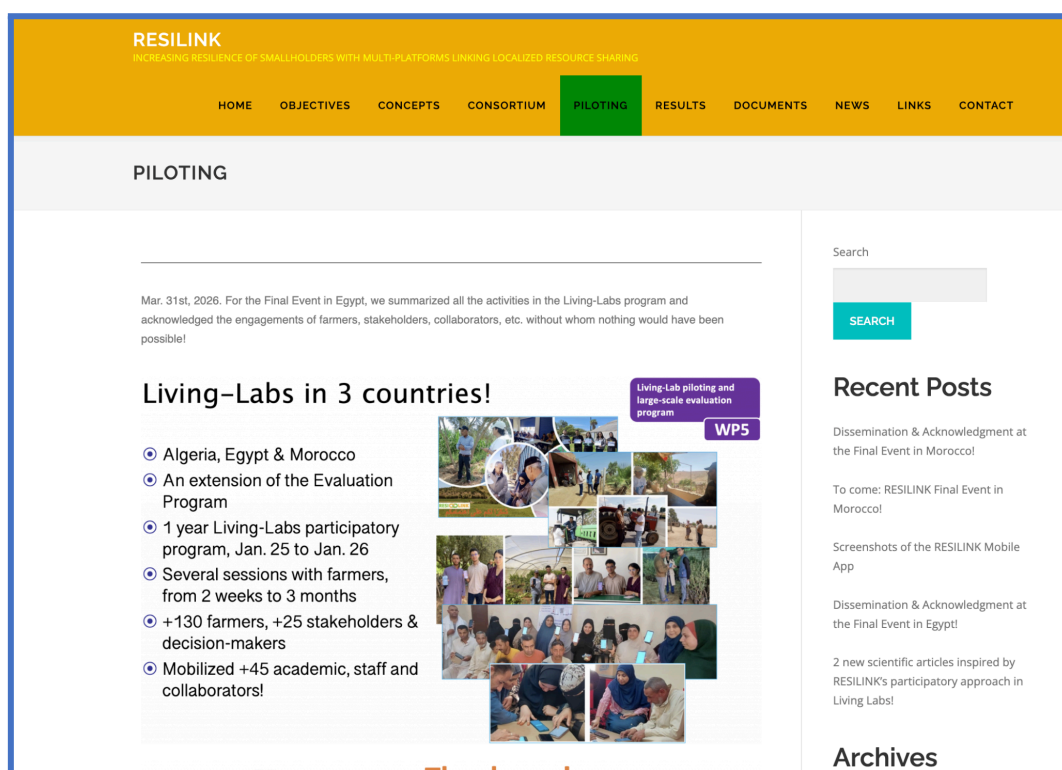
Individual posts – and especially latest posts – can be easily accessed from the main page.



For the Living Lab program, a number of communication and documentation materials have been produced. They are listed in the “[Document/Publications](#)” page on the web site.



Important steps related to the Piloting activities, thus including the Living Lab program, are presented in the [Piloting](#) section of the project web page.



All the communication and dissemination activities for the final year are described in more details in:

- **D4.1f “Final report on communication and dissemination activities”**

URL: <https://resilink.eu/wp-content/uploads/2026/09/D4.1f.pdf>

3.8. Scientific Publications

We list below all the scientific publications realized by the project during the 4 years of work.

<https://resilink.eu/publications>

Year 4: [1] to [4]; Year 3: [5] to [7]; Year 2: [8] to [10]; Year 1: [11]

1. Salah S. Abd El-Ghani, Congduc Pham, Tamer G. I. Mansour*, and Seham Mohamed Abd El Hameed El-Gamal. **INTEGRATING ICT IN AGRICULTURAL EXTENSION IN EGYPT: CURRENT STATUS, CHALLENGES, AND INTERNATIONAL INSIGHTS**. Scientific Culture vol. 12.1, February 2026.
2. Salah S. Abd El-Ghani, Congduc Pham, Tamer G. I. Mansour*, and Seham Mohamed Abd El Hameed El-Gamal. **PARTICIPATORY AGRICULTURAL INNOVATION THROUGH LIVING LABS: AN INSTITUTIONAL FRAMEWORK FOR RENEWING AGRICULTURAL EXTENSION**. Scientific Culture vol. 12.1, February 2026.

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3. RESILINK: 2 years of participative digital innovation with smallholder farmers in the Azilal and Beni Mellal regions, presented by Mohamed Chikh Essbiti, University Sultan Moulay Slimane, Beni Mellal, Morocco. Abstract accepted at the [2nd Symposium on Mediterranean Fruit & Vegetables: Hub for Innovation](#) organized by PRIMA InovFarmer.MED within the [10th Edition of the International Research School](#), Dec. 11-13, 2025. [Slides in .pdf](#).
 4. Phuong Nguyen, Adel Nouredine and Congduc Pham. 2025. [An Empirical Study on Estimating Energy Consumption From Software Traces](#). IEEE/ACM 12th International Conference on Big Data Computing, Applications and Technologies (BDCAT '25), December 1–4, 2025, Nantes, France. <https://doi.org/10.1145/3773276.3774295>. [Slides in .pdf](#).
 5. [Smallholder's readiness to adopt platforms linking local resource-sharing in Egypt](#), presented by Dr. Seham El Gamal, Agricultural Research Centre, Egypt. In person in Alexandria. Abstract accepted at the conference on ["Transforming Agri-Food Supply Chain for a Sustainable Future"](#) organized by InovFarmer.MED, Apr. 30th, 2025. Download the [presentation](#).
 6. [Assessing the challenges of adopting digital platforms for localized resource sharing in agriculture](#), presented by Hayat Lionboui, National Institute of Agronomic Research, Morocco. Abstract accepted at the conference on ["Transforming Agri-Food Supply Chain for a Sustainable Future"](#) organized by InovFarmer.MED, Apr. 30th, 2025. Download the [presentation](#)
 7. C. Pham, T. Mansour, H. Lionboui, Z. Fawzy, S. Shairra, N. Awad, S. El-Gamal, ["Smallholder's readiness to adopt platforms linking local resource sharing in Egypt"](#), Journal of Ecohumanism, vol. 3, no. 8, 2024. Creative Publishing House. <https://doi.org/10.62754/joe.v3i8.5702>. Published 2025-01-05.
 8. H. Lionboui, C. Pham, F. Elame, S. El Gamal, E. El Maadoudi, V. Henry, T. Benabdelouahab, "The challenges and opportunities of adopting digital platforms for localized resources sharing in agriculture: issues, perceptions, and influential factors", International Journal of Sustainable Agricultural Management and Informatics, InderScience Publishing. 10.1504/IJSAMI.2025.10072521
 9. T. Mansour, S. El-Gamal and C. Pham, ["Egyptian Digital Agricultural Platforms: Are We Heading in the Right Direction?"](#), Research note at the 18th Scientific Association for Agricultural Guidance Conference, Center for Sustainable Development of Matrouh Resources, Desert Research Center, Marsa Matrouh City, Nov. 2024.
 10. T. Mansour, S. El-Gamal and C. Pham, ["A New Vision for Enhancing the Resilience of Small Farmers in North Africa in Accessing Resources and Markets During Crises: The RESILINK Platform as a Model"](#), short paper at the International Conference of the Patent Contact Office in the Fields of Agriculture and Food Security. Oct. 2024
 11. Congduc Pham, ["RESILINK: Increasing Resilience of Smallholders with Multi-Platforms Linking Localized Resource Sharing"](#), Journal of Renewable Energy and Sustainable Development (RESO), Volume 8, Issue 1, June 2022, pp30-34. <http://dx.doi.org/10.21622/RESO.2022.08.1.03>
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4. SUMMARY OF KPIs

The following summary of project KPI is taken from:

- **D4.1f “Final report on communication and dissemination activities”**

URL: <https://resilink.eu/wp-content/uploads/2026/09/D4.1f.pdf>

Dissemination and Communication Actions	KPIs and Success Indicators	Reached after (3 years) and after 4 years (X)/Y
Dissemination Events	Smallholder-oriented events with demonstrations of RESILINK platform and app Visits/meetings to appropriate stakeholders (e.g., local agencies, local Policy Makers, regional agri-food associations, local Digital Innovation Hub, etc) Number of dissemination events organized Aim: organize at least 8 communication & dissemination events to create awareness on the innovative generalized resource sharing approach for the agri-food chain 2 scientific days; 2 symposiums; 2 conferences “Transforming Agri-Food Supply Chain for a Sustainable Future” & “Developing Agricultural Education to Support Sustainable Agricultural Development”, 1 RSI webinar, 1 webinar on AI for building third-party applications, 4 raise-awareness events and 2 Final Events	(8) 14
Smallholders audience reachout	Number of smallholders audience Aim: reach at least 500 smallholders through the dissemination events and the large-scale evaluation of the RESILINK mobile app (at least 200 smallholders for the latter)	about (300) 500 through exhibitions symposium, webinars & interviews
Small-scale farmers engaged in piloting tests	Number of smallholders in the Living-Lab piloting program (duration 33 months) Aim: engage at least 40 small-scale farms for Living-Lab Piloting of the RESILINK digital platform	(30) 30 for preparation stage (30) 100 for Living Lab
Smartphones	Number of smartphones that can be lent for the Living-Labs and specific evaluation Aim: RESILINK will provision to be able to lend 100 smartphones when necessary	Due to financial issues, we will enrol only smallholders

		with their smartphones
Scientific peer-reviewed papers in conferences and journals	Number of published peer reviewed papers Aim: publish at least 3 journals and 8 conference papers (of which at least 40% are joint-authored papers between RESILINK partners). All publications will be open access.	(3 journal + 4 conf) / 5 journal + 6 conferences
Technical Training/Tutorial Materials	Number of Technical Training/Tutorial presentations produced Aim: release at least 10 Technical Training/Tutorial presentations/slides Number of Technical Training/Tutorial video produced Aim: release at least 6 Technical Training/Tutorial video	(4) 8 (4) 5
Project Newsletters	Usage of mailing-lists Number of Project Newsletters produced – Aim: release at least 6 Project Newsletters.	(5) 7
Scientific Knowledge Transfer	Number of co-located workshops organised / or with significant presence Aim: organisation of at least 2 co-located workshops Aim: presence in at least 4 major events Number of attendees (registered / estimated) Aim: average number of targeted attendees per event is estimated in at least 50 Number of organized webinars – Aim: at least 12 organized webinars	(1) 3 (5) 5 (AGRO-IT Day in Meknès; 15th SIAM in Meknès; Intl. Exhibition of Agriculture and Agro-Industries in Béni Mellal 2023 & 2024; SIPSA FILAHA 2024) (2) 3
Communication Materials	Project logo, design/branding Number of leaflets / brochures produced Aim: Preparation and distribution of 4 different brochures Number of posters – Aim: publish at least 4 posters Number of press releases – Aim: publish at least 4 press releases Number of demonstration videos produced – Aim: produce and publish at least 4 videos	(2) 2 (4) 6 (1) 1 (2) promo video, (2) demo video

Website	Website exposure with active cross-referencing from all partner websites Links to project's social network pages will also be available The website will sustain at least 2 further years after the end of the project. Audience: Number of visitors Aim: An average of 1200 visits per year would be a positive result, with at least 40% of users spending more than 2 minutes on the site. Relevant Content: Use of landing pages to measure specific dissemination actions.	
Engagement & Social Media	a) Presence in Social Media Number of existing social media communities relevant to the project Aim: use Social Media channels (e.g., Facebook, Twitter, LinkedIn, YouTube and other useful networks) Number of videos on YouTube – Aim: upload at least 6 Training/Tutorial videos Number of views for videos on YouTube Aim: a total number of views over 150000 views would be a positive result b) Flow of communication, number of posts – Aim: publish continuous information Number of Interviews on Media – Aim: present in at least 3 major events	<i>GitHub, web site, YouTube and LinkedIn</i> (1) 1 promo video (258 view, July 2025) (291 view Sep. 2026), 1 pitch video through web site (News, Post) and LinkedIn (1) 1 (AGRO-IT Day in Meknès)
Project showcase events, innovation booth, etc.	a) Project showcase events Aim: at least 2 demonstration stands at international events including PRIMA/EC dissemination mechanisms and events, showing the RESILINK project features.	(4) 4 (AGRO-IT Day in Meknès; 15th SIAM in Meknès; Intl. Exhibition of Agriculture and Agro-Industries in Béni

	b) Innovation Booth Aim: at least 2 Innovation booths at Exhibition/Fairs (e.g., ITU Telecom World, AfriLab gathering, IST-Africa,...) where RESILINK system can be advertised within a wider community of policy makers and stakeholders.	Mellal 2023; SIPSA FILAHA 2024) (0) 0
Cooperation with external actors & partnerships	Number of cooperations with external actors Aim: initiate at least 5 third-party platforms using RESILINK open API Aim: at least 5 partnerships in the mentoring and pre-incubation program Aim: raise interest from at least 10 entrepreneurs/startups	(0) 2 (LocKitSolar , Orange Guinea) (0) 0 (0) 1 (Orange Guinea)
Liaison with other projects	Number of collaborations with other projects Aim: at least 2 other PRIMA/EC projects on agri-food chain related issues	(7) 10 (INOVFARMER; MED-LINKS; EU4ADVICE; FAIRCHAIN; RECROP; STOPMEDWASTE; FOODWASTOP) + INDICATIC AIP; CO-OPABILITY; OurMED

5. MODIFICATIONS & CORRECTIONS FROM INITIAL PLAN

For the last year deliverables, the following modifications and/or corrections have been made.

Code	Deliverable Title	Related Work Package Number	Responsible Editor	Task	Due
D2.2c	RESILINK resource sharing digital platform – v3	2	ORANGE	T2.3, T2.4	M45
D2.3b	Final report on API and software connectors	2	UPPA	T2.5	M45
D2.4b	Final report on test and validation of the full RESILINK framework	2	ACICT	T2.6	M45
D3.3	Artificial Intelligence and Machine Learning advanced analytics for correlated local resources discovery and mapping	3	UPPA	T3.3	M24
D3.5b	Final report on AI integration into Edge-IoT RESILINK gateway	3	UPPA	T3.5	M45
D4.2b	Final report on software templates demonstrating RESILINK's open API	4	UPPA	T4.2	M42
D4.3b	Final report on RESILINK mobile app demonstration and dissemination events	4	ORANGE	T4.3	M42
D4.4b	Final report on Competitions and Challenges for Tech Community engagement	4	ACICT	T4.4	M42
D4.1f	Final report on communication and dissemination activities	4	UPPA	T4.1	M48
D4.5b	Final report on partnerships and demonstration of interoperability	4	UPPA	T4.5	M48
D4.6b	Final report on mentoring and pre-incubation of selected partnerships	4	UPPA	T4.6	M48
D4.7	Perspectives for long-term exploitation of project's results	4	ORANGE	T4.7	M48
D5.3c	Synthetic Report on 3 years of Smallholder Living-Lab Piloting Program and large-scale evaluation	5	USMS	T5.3, T5.4, T5.5	M45
D5.7c	Evaluation, synthesis and KPI assessment of 3 years of piloting and evaluation program	5	INRA	T5.7	M48
D6.5	Final year report	6	UPPA	T6.2	M48

→ D2.3b, cancelled, merged into D2.2c

→ D3.3, cancelled. Recommendation system is integrated and described in D2.2c

→ D3.5b, cancelled because **RESILINK will not integrate IoT automation anymore due to re-orientation of project's priority to devote the scientific & technical contributions on a smart recommendation system, the open API and the lightweight and flexible digital platform architecture for the Platform-of-Platform approach. This has been agreed with PRIMA during the mid-term evaluation.**

→ D4.4b, cancelled because no external participants.

→ D4.5b, cancelled, integrated into D4.2b and D4.7.

→ D4.6b cancelled. The Orange Guinea collaboration started after the official end of the project

→ D5.7c, cancelled, integrated into D5.3c.

During the whole project, there have unfortunately been a lot of changes into the deliverable plan. Here are the reasons:

- The Living Lab program was delayed because development of the RESILINK platform was more complex and took longer than expected. Some deliverables related to Living Labs and their KPI were delayed, then merged into a single one deliverable.
- RESILINK will not integrate IoT automation anymore due to re-orientation of project's priority to devote the scientific & technical contributions on a smart recommendation system, the open API and the lightweight and flexible digital platform architecture for the Platform-of-Platform approach. This has been agreed with PRIMA during the mid-term evaluation.
- The planned Competition & Challenge on the RESILINK's open API was unfortunately not successful
- We were over-optimistic regarding the Mentoring and Pre-Incubation. The duration of the project was not sufficient for synergies to be found. Only after the project, one partnership could be initiated with one of Orange's subsidiary (Orange Guinea Konatry).
- AI methods were found not adapted for RESILINK and therefore a simpler and more traditional offer recommendation system was implemented, documented and merged into the deliverable on the RESILINK platform.
- Finally, we acknowledge that the initial deliverable list was too large where dedicated deliverables were listed for contributions that were not as significant as expected. This is also why many deliverables were merged into other deliverables.

Here is a summary showing the history of deliverable updates and merges over the whole duration of the project, illustrated year by year.

YEAR 1

D1.1	Smallholders' resource requirements and distribution channels in a local & territorial agri-food chain	1	INRA	T1.1, T1.3	M06
D1.2a	First report on framework for a generalized resource sharing for increased resilience of smallholder considering a local & territorial agri-food chain	1	ARC	T1.3, T1.4	M12
D4.1a	Project web site	4	UPPA	T4.1	M03
D4.1b	Synthesis of communication & dissemination plan, tools and materials	4	UPPA	T4.1	M06
D4.1c	First year report on communication and dissemination activities	4	UPPA	N/A	M12
D5.1a	First report on smallholder engagement and acceptance for Living Lab	5	INRA	T5.1	M12
D5.2a	Evaluation technical framework –v1	5	ACICT	T5.2	M12
D6.1	Project handbook	6	UPPA	T6.1, T6.2	M03
D6.2	First year report	6	UPPA	N/A	M12

YEAR 2

D1.2b	Final report on framework for a generalized resource sharing for increased resilience of smallholder considering a local & territorial agri-food chain	1	ARC	T1.3, T1.4	M18
D1.3a	First report on local opportunities for generalized resource sharing	1	USMS	T1.5	M20
D2.1a	First report on user requirements, user interface and co-design of the RESILINK generalized resource sharing digital platform	2	ORANGE	T2.1, T2.2	M13
D2.1b	Final report on user requirements, user interface and co-design of the RESILINK generalized resource sharing digital platform	2	ORANGE	T2.1, T2.2	M24
D2.2a	RESILINK resource sharing digital platform –v1	2	ORANGE	T2.3, T2.4	M21
D3.1	Edge-IoT automation for contextual information sharing at production and transformation level	3	UPPA	T3.1, T3.2	M15
D3.2a	First report on IoT integration into Edge-IoT RESILINK gateway	3	UPPA	T3.1, T3.2	M24
D3.3	Artificial Intelligence and Machine Learning advanced analytics for correlated local resources discovery and mapping	3	UPPA	T3.3	M24
D4.1d	Second year report on communication and dissemination activities	4	UPPA	T4.1	M24
D5.1b	Final report on smallholder engagement and acceptance for Living Lab	5	INRA	T5.1	M18
D5.2b	Evaluation technical framework –v2	5	ACICT	T5.2	M21
D5.3a	First report on Smallholder Living Lab Piloting Program in Egypt	5	ARC	T5.3	M24
D5.4a	First report on Smallholder Living Lab Piloting Program in Morocco	5	INRA	T5.4	M24
D5.5a	First report on Smallholder Living Lab Piloting Program in Algeria	5	UMCM	T5.4	M24
D5.6a	First report on the large-scale RESILINK mobile app evaluation program	5	ORANGE	T5.6	M24
D5.7a	Evaluation, synthesis and KPI assessment of 1 year of piloting and evaluation program	5	INRA	T5.7	M24
D6.3	Second year report	6	UPPA	T6.2	M24

From D6.2 “First year report”. <https://resilink.eu/wp-content/uploads/2023/06/D6.2.pdf>
Correction for Year 1

The following modifications and/or corrections have been made:

1. Due to some delays in testing and evaluating the ODEP framework, the work on WP3 has not started yet. It will start when the architecture of the RESILINK digital platform, and its API will be consolidated.
2. D5.1a (WP5. M12) First report on Smallholder engagement and acceptance for Living-Lab. Merged into D1.2b, due to delay in the activity specific to the Living-Lab.

YEAR 2

D1.2b	Final report on Framework for a generalized resource sharing for increased resilience of smallholder smallholder considering a local & territorial agri-food chain	1	ARC	T1.3, T1.4	M18
D1.3a	First report on local opportunities for generalized resource sharing	1	USMS	T1.5	M20
D2.1a	First report on user requirements, user interface and co-design of the RESILINK generalized resource sharing digital platform	2	ORANGE	T2.1, T2.2	M19
D2.1b	Final report on user requirements, user interface and co-design of the RESILINK generalized resource sharing digital platform	2	ORANGE	T2.1, T2.2	M24
D2.2a	RESILINK resource sharing digital platform – v1	2	ORANGE	T2.3, T2.4	M21
D3.1	Edge IoT automation for contextual information sharing at production and transformation level	3	UPPA	T3.1, T3.2	M15
D3.2a	First report on IoT integration into Edge-IoT RESILINK gateway	3	UPPA	T3.1, T3.2	M24
D3.3	Artificial Intelligence and Machine Learning advanced analytics for correlated local resources discovery and mapping	3	UPPA	T3.3	M24
D4.1d	Second year report on communication and dissemination activities	4	UPPA	T4.1	M24
D5.1b	Final report on Smallholder engagement and acceptance for Living-Lab	5	INRA	T5.2	M19
D5.2b	Evaluation technical framework – v2	5	ACICT	T5.2	M21
D5.3a	First report on Smallholder Living-Lab Piloting Program in Egypt	5	ARC	T5.3	M24
D5.4a	First report on Smallholder Living-Lab Piloting Program in Morocco	5	INRA	T5.4	M24
D5.5a	First report on Smallholder Living-Lab Piloting Program in Algeria	5	UMCM	T5.4	M24
D5.6a	First report on the large-scale RESILINK mobile app evaluation program	5	ORANGE	T5.6	M24
D5.7a	Evaluation, synthesis and KPI assessment of 1 year of piloting and evaluation program	5	INRA	T5.7	M24
D6.3	Second year report	6	UPPA	T6.2	M24

YEAR 3

D1.3b	Final report on local opportunities for generalized resource sharing	1	USMS	T1.5	M20
D2.2b	RESILINK resource sharing digital platform – v2	2	ORANGE	T2.3, T2.4	M36
D2.3a	First report on API and software connectors	2	UPPA	T2.5	M28
D2.4a	First report on test and validation of the full RESILINK framework	2	ACICT	T2.6	M28
D3.3	Artificial Intelligence and Machine Learning advanced analytics for correlated local resources discovery and mapping	3	UPPA	T3.3	M24
D3.4	Methodology for responsive resource sharing in crisis situation	3	ORANGE	T3.4	M27
D3.5a	First report on AI integration into Edge-IoT RESILINK gateway	3	UPPA	T3.5	M32
D3.2b	Final report on IoT integration into Edge-IoT RESILINK gateway	3	UPPA	T3.2	M36
D4.2a	First report on software templates demonstrating RESILINK's open API	4	UPPA	T4.2	M25
D4.3a	First report on RESILINK mobile app demonstration and dissemination events	4	ORANGE	T4.3	M25
D4.4a	First report on Competitions and Challenges for Tech Community engagement	4	ACICT	T4.4	M25
D4.5a	First report on partnerships and demonstration of interoperability	4	UPPA	T4.5	M25
D4.1e	Third year report on communication and dissemination activities	4	UPPA	T4.1	M36
D4.6a	First report on mentoring and pre-incubation of selected partnerships	4	USMS	T4.6	M36
D5.3b	Synthetic Report on 2 years of Smallholder Living-Lab Piloting Program and large-scale evaluation	5	ARC	T5.3, T5.4, T5.5	M36
D5.7b	Evaluation, synthesis and KPI assessment of 2 years of piloting and evaluation program	5	INRA	T5.7	M36
D6.4	Third year report	6	UPPA	T6.2	M36

From D6.3 “Second year report”. <https://resilink.eu/wp-content/uploads/2024/07/D6.3.pdf>
Correction for Year 2

→ D1.3a Cancelled and content has been integrated into D1.2b.

→ D3.2a has been cancelled because **RESILINK is currently investigating whether IoT automation is suitable for the current context of smallholders and current orientation of RESILINK platform**. We are thinking of alternative methods to increase the automatization of interactions with the RESILINK platform.

→ D3.3 has been postponed to November 30th, 2024. This is due to the delay in the large-scale evaluation to test the RESILINK mobile app and the RESILINK digital platform. In this context, the activities and the investigation on how to introduce AI analytics are postponed.

→ D5.1b Will be merged into 5.3a that will actually be renamed as “First report on Smallholder Living-Lab Piloting Program in Algeria, Egypt and Morocco” (see below)

→ D5.3a has been postponed to November 30th, 2024. This is due to the delay in the large-scale evaluation. **In addition, D5.3a will be renamed as “First report on Smallholder Living-Lab Piloting Program in Algeria, Egypt and Morocco”** (see below)

→ D5.4a and D5.5a have been cancelled because due to delays in launching the Living-Lab program, having separate deliverables is not justified anymore. D5.3a that has been postponed to November 30th, 2024 will include the feedback from both Algeria and Morocco.

→ D5.7 has been cancelled and its content has actually been integrated into D2.2a and D5.2a that have been released later than expected. In that context, it was not useful to have a separate D5.7.

YEAR 3

D1.3b	Final report on local opportunities for generalised resource sharing	1	USMS	T1.5	M36	✗
D2.2b	RESILINK resource sharing digital platform – v2	2	ORANGE	T2.3, T2.4	M36	
D2.3a	First report on API and software connectors	2	UPPA	T2.5	M28	
D2.4a	First report on test and validation of the full RESILINK framework	2	ADCT	T2.6	M28	
D3.3	Artificial Intelligence and Machine Learning advanced analytics for correlated local resources discovery and mapping	3	UPPA	T3.3	M24	
D3.4	Artificial Intelligence and Machine Learning methodology for responsive resource sharing in crisis situation	3	ORANGE	T3.4	M27	
D3.5a	First report on AI integration into Edge-IoT RESILINK gateway	3	UPPA	T3.5	M32	
D3.2b	Final report on IoT integration into Edge-IoT RESILINK gateway	3	UPPA	T3.2	M36	✗
D4.2a	First report on software templates demonstrating RESILINK's open API	4	UPPA	T4.2	M25	
D4.3a	First report on RESILINK mobile app demonstration and dissemination events	4	ORANGE	T4.3	M25	
D4.4a	First report on Competencies and Challenges for Tech Community engagement	4	ADCT	T4.4	M25	
D4.5a	First report on partnerships and demonstration of interoperability	4	UPPA	T4.5	M25	
D4.1e	Third year report on communication and dissemination activities	4	UPPA	T4.1	M36	
D4.6a	First report on monitoring and pre-incubation of selected partnerships	4	USMS	T4.6	M36	✗
D5.3b	Synthetic Report on 2 years of Smallholder Living-Lab Piloting Program and large-scale evaluation	5	ARC	T5.3, T5.4, T5.5	M36	
D5.7b	Evaluation, synthesis and KPI assessment of 2 years of piloting and evaluation program	5	INRA	T5.7	M36	
D6.4	Third year report	6	UPPA	T6.2	M36	

YEAR 4

D2.2b	RESILINK resource sharing digital platform – v3	2	ORANGE	T2.3, T2.4	M45	
D2.3b	Final report on API and software connectors	2	UPPA	T2.5	M45	
D2.4b	Final report on test and validation of the full RESILINK framework	2	ADCT	T2.6	M45	
D3.3	Artificial Intelligence and Machine Learning advanced analytics for correlated local resources discovery and mapping	3	UPPA	T3.3	M24	
D3.5b	Final report on AI integration into Edge-IoT RESILINK gateway	3	UPPA	T3.5	M45	✗
D4.2b	Final report on software templates demonstrating RESILINK's open API	4	UPPA	T4.2	M42	
D4.3b	Final report on RESILINK mobile app demonstration and dissemination events	4	ORANGE	T4.3	M42	✗
D4.4b	Final report on Competencies and Challenges for Tech Community engagement	4	ADCT	T4.4	M42	✗
D4.1f	Final report on communication and dissemination activities	4	UPPA	T4.1	M48	
D4.5b	Final report on partnerships and demonstration of interoperability	4	UPPA	T4.5	M48	
D4.6b	Final report on monitoring and pre-incubation of selected partnerships	4	UPPA	T4.6	M48	✗
D4.7	Perspectives for long-term exploitation of project's results	4	ORANGE	T4.7	M48	
D5.3c	Synthetic Report on 3 years of Smallholder Living-Lab Piloting Program and large-scale evaluation	5	USMS	T5.3, T5.4, T5.5	M45	
D5.7c	Evaluation, synthesis and KPI assessment of 3 years of piloting and evaluation program	5	INRA	T5.7	M48	
D6.5	Final year report	6	UPPA	T6.2	M48	

From D6.4 “Third year report”. <https://resilink.eu/wp-content/uploads/2025/09/D6.4.pdf>

Correction for year 3

→ D1.3b, cancelled since no new contributions from D1.2b

→ D3.3 has been postponed several times as the development of the core functionalities of RESILINK mobile application took longer than expected, which in turn delayed the large-scale evaluation to test the RESILINK mobile app and the RESILINK digital platform. In this context, the activities and the investigation on how to introduce AI analytics for the recommendation system were postponed. The new expected date is Nov. 2025.

→ D3.4, cancelled and will be integrated into D3.3 (see above)

→ D3.5a & D3.2b have been cancelled because **RESILINK will not integrate IoT automation anymore due to re-orientation of project's priority to devote the scientific & technical contributions on a smart recommendation system, the open API and the lightweight and flexible digital platform architecture for the Platform-of-Platform approach. This has been agreed with PRIMA during the mid-term evaluation.**

→ D4.3a has been cancelled because the evaluation program of the RESILINK mobile app has been delayed. Therefore demonstration & dissemination events that have been organized have been integrated and described in D2.4a and D5.3b, along with the Living-Lab.

→ D4.4a & D4.5a & D4.6a have been cancelled because the design, the development, and the test of RESILINK's digital platform functionalities and the RESILINK digital platform's open API took longer than expected. D4.2a described the first version of the open API while D2.2b presented the first attempt and demonstration of the RESILINK's open API usage for other applications than RESILINK.

→ D5.7b has been cancelled and its content has actually been integrated into D5.3b that has been released later than expected because of delays in the large-scale evaluation and Living-Lab. In that context, it was not useful to have a separate D5.7b.

6. DIFFICULTIES & RISKS

11.1. Difficulties

In the last year, Egyptian partners have still been impacted by both delays in financial & administrative procedures and difficulties in travelling. Thanks to their engagement, we were able to maintain most of the activities related to the Living-Lab program and have great contributions with numerous scientific publications.

11.2. Risks

At the end of the project there are not really risks anymore. The developed software blocks for both the RESILINK server and the RESILINK mobile application are stable and have reached the expected level of functionality. There are perspectives to valorize the software and the “platform-of-platforms” approach proposed by RESILINK within Orange collaborations and in other R&D projects.

7. CONCLUSIONS

We would like to conclude that it has been a long and sometimes difficult journey but the continuous engagement from all partners despite the difficulties made this journey so rewarding!

The impact of RESILINK can be seen from the scientific publications that open new research & innovations perspectives in the agriculture domain, especially in contributing to develop participatory approaches. We are so happy to be able to contribute with an interdisciplinary approach where advanced ICT concepts could be integrated into more agricultural and economical research.



RESILINK



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RESILINK



Thank you!

FARMERS, STAKEHOLDERS, COLLABORATORS, ETC.



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ACRONYMS LIST

Acronym	Explanation
KPI	Key Performance Indicator
ODEP	Orange Decentralized Exchange Place
PoC	Proof-of-Concept
WP	Work Package

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