RESILINK

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

THE INNOVATIONS BEHIND THE APP

PRIMA — PARTNERSHIP FOR RESEARCH AND INNOVATION IN THE MEDITERRANEAN AREA

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

RESILINK

ACICT: Arab Company for Information and Communication Technology — Egypt

ARC: Agricultural Research Center — Egypt

INRA: National Institute of Agronomic Research — Morocco

Orange — France

UMCM: University Mohammed-Chérif Messaadia Souk-Ahras — Algeria

USMS: University Sultan Moulay Slimane — Morocco

UPPA: University of Pau & Adour Country — coordinator — France

WAZIUP eV: WAZIUP association — associated partner — Germany

Joint Event

2nd Symposium
Mediterranean Fruit & Vegetables: Hub For Innovation

10th Edition
International Research School

Agadir, Morocco
Ibnou Zohr University

11, 12 & 13 December 2025

On-site

INOVFARMER — Better fruit from smart business
UNIVERSITÉ IBNOU ZOHR

A BIT OF CONTEXT

COVID-19 made us realized that severe crisis can dramatically restrict physical movement while simultaneously reducing access to essential resources and services by disrupting supply chains, closing facilities & markets

Smallholder farmers are one of the first to be impacted

Prof. Congduc Pham
http://www.univ-pau.fr/~cpham

Assessing the Socioeconomic Impact of COVID-19 on Agriculture, Food Security, Livelihoods, and Food Systems in Liberia

THE IMPACT OF COVID-19 ON SMALL-SCALE FARMING, FOOD SECURITY AND SOVEREIGNTY IN AFRICA

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THE RESILINK PROJECT

https://prima-med.org/

PRIMA: Partnership for **R**esearch and **I**nnovation in the **M**editerranean

2021 CALL in Agrofood chain thematic

Topic 2.3.1 Increasing the resilience of small-scale farms to global challenges and COVID-like crisis by using adapted technologies, smart agri-food supply chain and crisis management tools

RESILINK

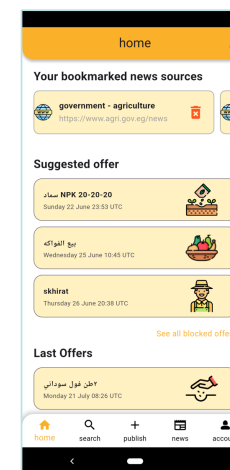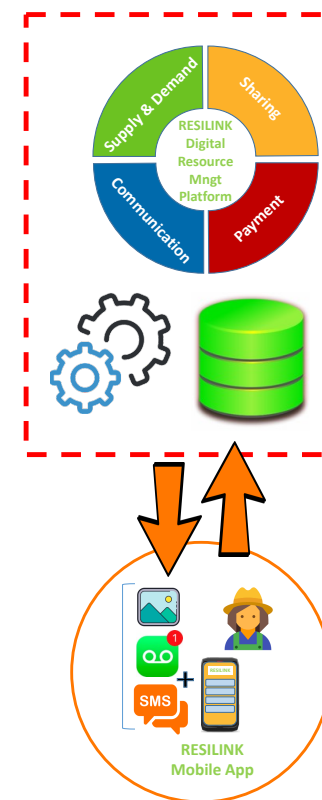INCREASING RESILIENCE OF SMALLHOLDERS WITH MULTI-PLATFORMS LINKING LOCALIZED RESOURCE SHARING

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WHAT RESILINK IS DOING?

Identify needs & expectations when providing Digital Tools for crisis situations

Develop the core components of a Digital Platform to share local resources

Develop a demonstrator with a mobile application for validation in Living-Labs

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YET ANOTHER DIGITAL PLATFORM?

Already a lot of digital platforms! They are already key element of the digital transformation

But each new digital platform or app try to create its own community!
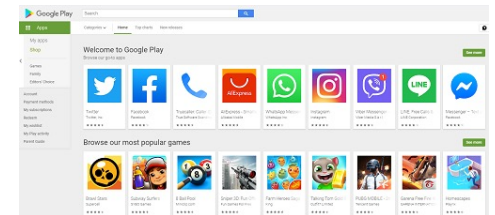
Sharing between communities is not the objective. Competition and isolation are preferred!
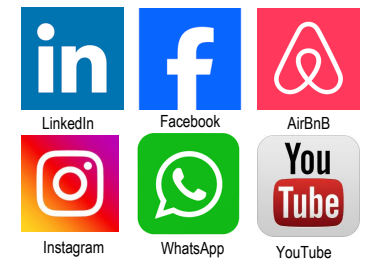
NO "ONE APP FITS ALL"
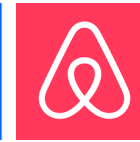
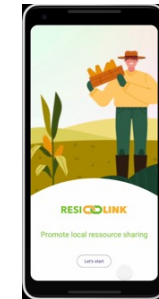LinkedIn Facebook AirBnB Instagram WhatsApp YouTube
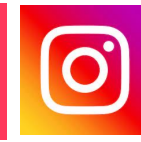
Competition → Isolation → Fragmented ecosystems

A platform-of-platforms approach will promote a much wider and appealing ecosystem

→ Platforms for specific agricultural sectors

→ Discover resources/services from other platforms

→ No isolation

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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

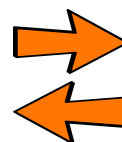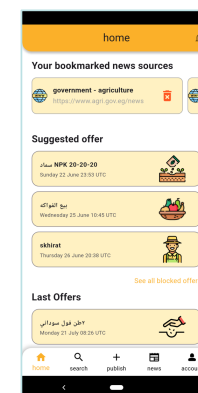Open API will enable Platform-of-Platforms approach to extend the ecosystem

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CreateUser
AddOffer
API
AddNews
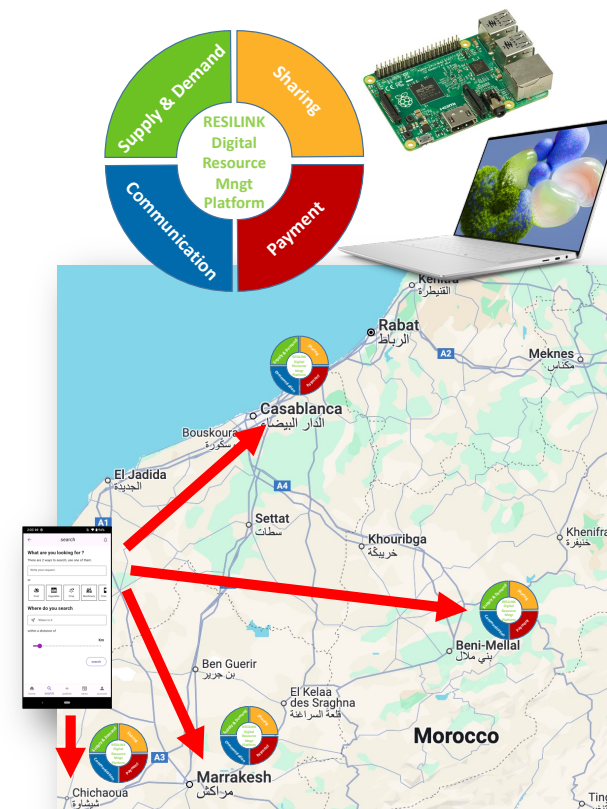
APP=NEW_APP

TRADITIONAL DIGITAL PLATFORMS vs LIGHTWEIGHT SERVERS

✔ 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

BACK-END

FRONT-END

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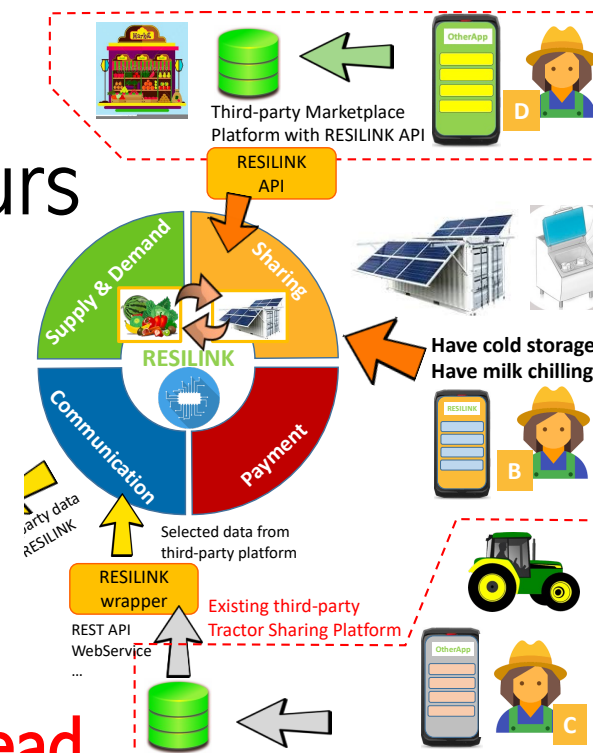# INCREMENTAL DEPLOYMENT OF SERVERS ACCORDING TO NEW NEEDS

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
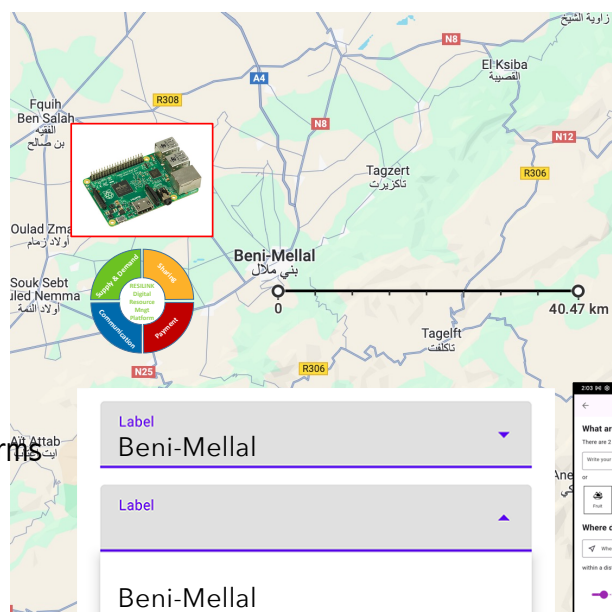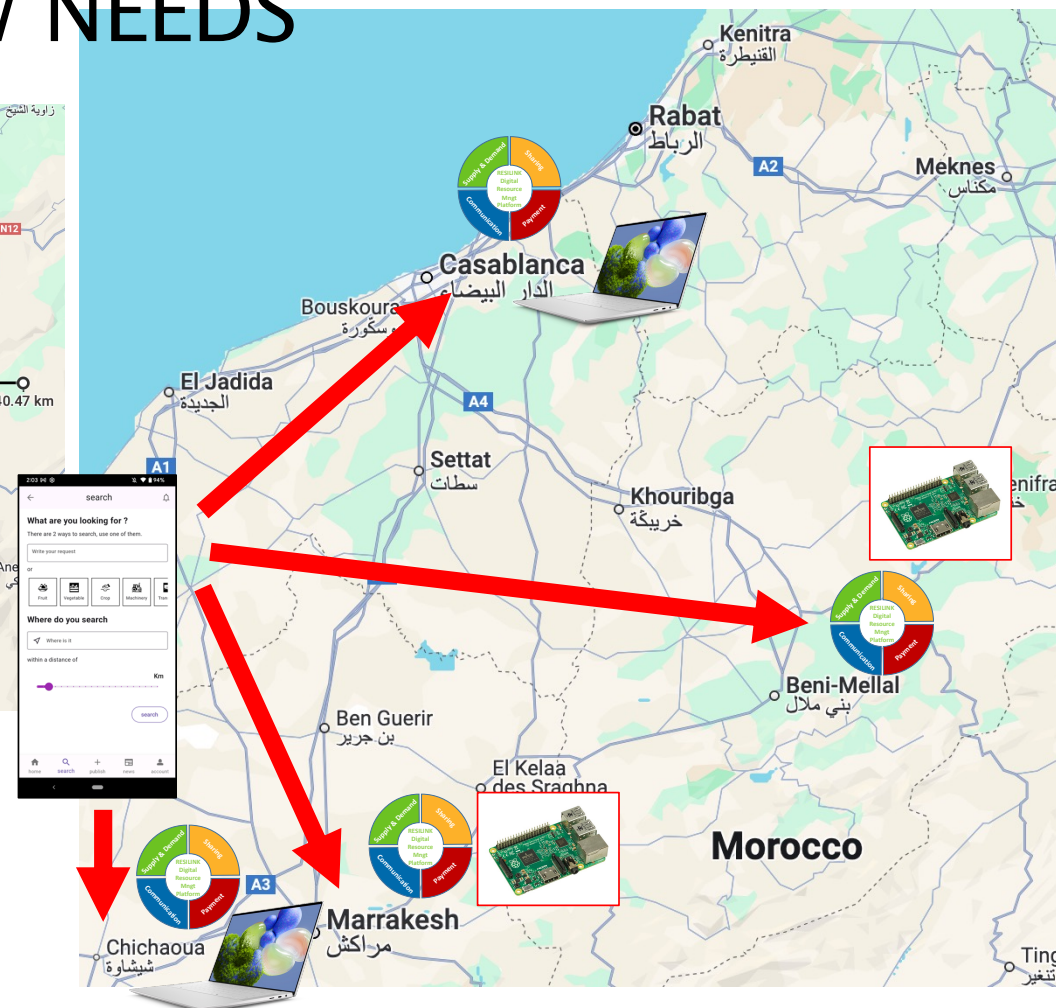
QUICK DEVELOPMENT OF NEW PLATFORMS, STIMULATING LOCAL INNOVATIONS

Fast development of new applications by local entrepreneurs

New applications will bring new functionalities for specialized needs

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

Open API = Collaboration instead of Isolation !

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Third-party Marketplace Platform with RESILINK API

RESILINK API

Have cold storage
Have milk chilling

Selected data from third-party platform

party data
RESILINK

RESILINK wrapper

Existing third-party Tractor Sharing Platform

REST API WebService
...

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THE RESILINK DEMONSTRATOR

The RESILINK mobile application allows farmers to publish & search for resources

It connects smallholders to sharing opportunities, local distribution channels

Provides quick links to news & alarms from governmental agencies

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11/17
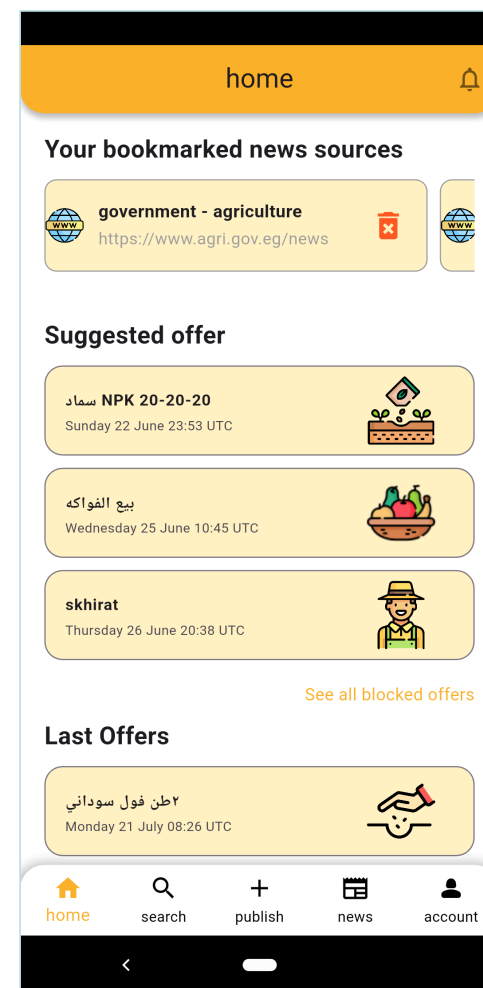
INTERVIEWS, TESTS & LIVING-LABS

RESILINK received a lot of support from smallholder farmers!

March 2023 to Oct. 2023 in Algeria, Egypt and Morocco

IT IS IMPORTANT TO CATCH SOCIOLOGICAL ASPECTS AND UNDERSTAND THE FARMER'S EXPECTATIONS

Jan 2024 to May 2024

From March 2023 to May 2024. A series of workshops and interviews with questionnaires and then with the RESILINK mobile application mockup have been conducted by our Algerian, Egyptian and Moroccan research teams to ensure that proposed functionalities meet the farmers' needs and expectations. It was a great source of information to prepare the piloting in Living-Lab mode. Congrats to UMCM (Algeria), ARC (Egypt), INRA & USMS (Morocco) for their hard work!

WE WANT TO THANK FARMERS & STAKEHOLDERS FOR THEIR COMMITMENT & FEEDBACK!

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http://www.univ-pau.fr/~cpham

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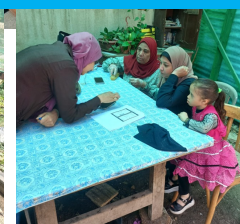
ALL SOFTWARE ARE OPEN SOURCE!

The BACK-END server is open source

The demonstrator mobile app FRONT-END developed with Flutter is open source

Documentations are available to install & deploy BACK-END

The demonstrator mobile app is an example of mobile app FRONT-END that can further be adapted & customized

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RESILINK MOBILE APP ON GOOGLE PLAY
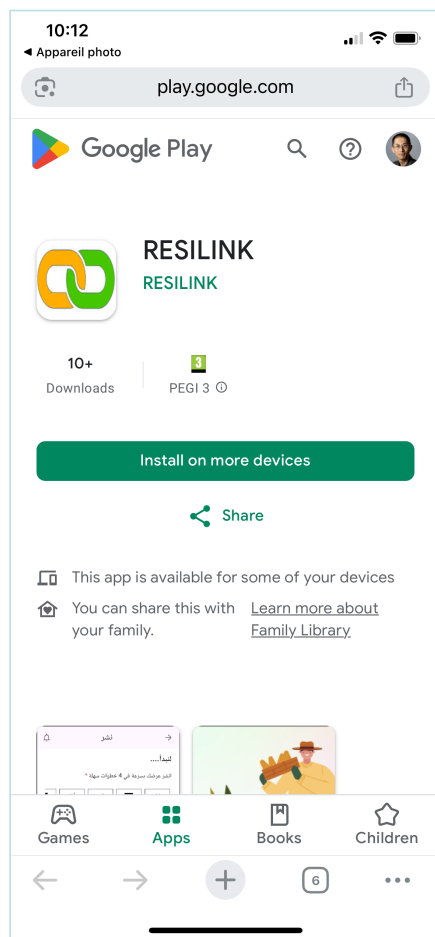
INSTALL THE APP

CREATE AN ACCOUNT

AND START PUBLISHING OFFERS

TO CREATE A COMMUNITY

FLASH TO INSTALL

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ACT AS A FARMER!

Select a country

Act as a farmer and indicate your main activity

Then publish offers and search for offers according to your activity

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PROVIDE FEEDBACK

Fill in the feedback form in paper version (see .pdf link)

Or, use the Google Form to fill it online:

EN: https://forms.gle/bpcyC94CPpu7Utm89

FR: https://forms.gle/vSPyZD2emvXHx3ig9

EN

FR

EVALUATION FORM IN .PDF OR TO PRINT

https://tinyurl.com/mtmbabyh

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http://www.univ-pau.fr/~cpham

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WEB SITE: https://resilink.eu

https://resilink.eu