
PRIMA
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
RESILINK
INCREASING RESILIENCE OF SMALLHOLDERS WITH MULTI-PLATFORMS LINKING LOCALIZED RESOURCE SHARING
Innovating in Platform-of-Platforms Approaches for Increased Resilience Targeting Smallholder Farmer Communities

A BIT OF CONTEXT

COVID-19 made us realized that severe crisis can dramatically restrict physical movement

reducing access to essential resources and services by disrupting supply chains, closing facilities & markets

Smallholder farmers are one of the first to be impacted

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THE RESILINK PROJECT

https://prima-med.org/

PRIMA: Partnership for Research and Innovation in the Mediterranean

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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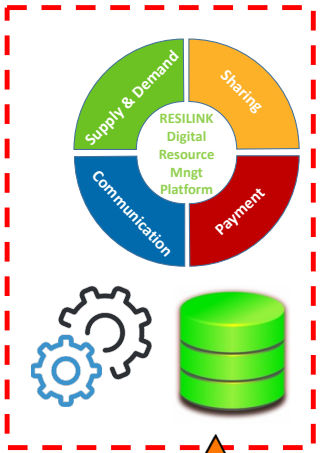
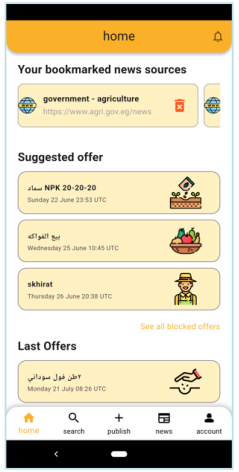
WHAT RESILINK IS DOING?

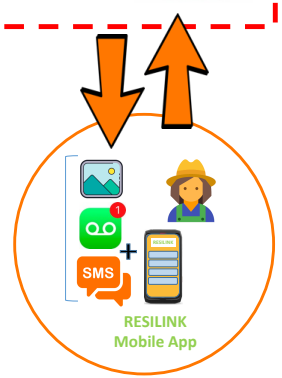
Identify needs & expectations when providing Digital Tools for crisis situations

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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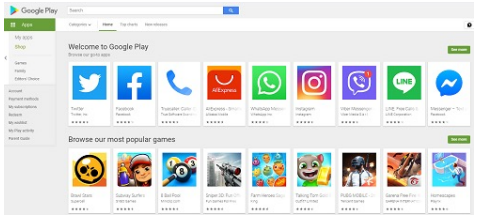
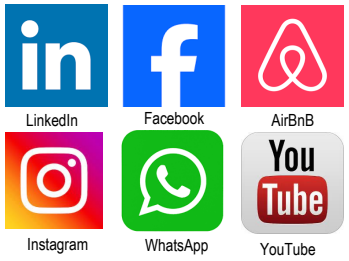
YET ANOTHER DIGITAL PLATFORM?

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



But each new digital platform or app tries to create its own community!

Sharing between communities is not their objective → competition and isolation



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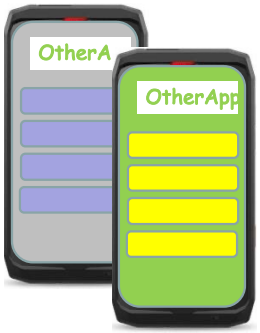
NO "ONE APP FITS ALL"

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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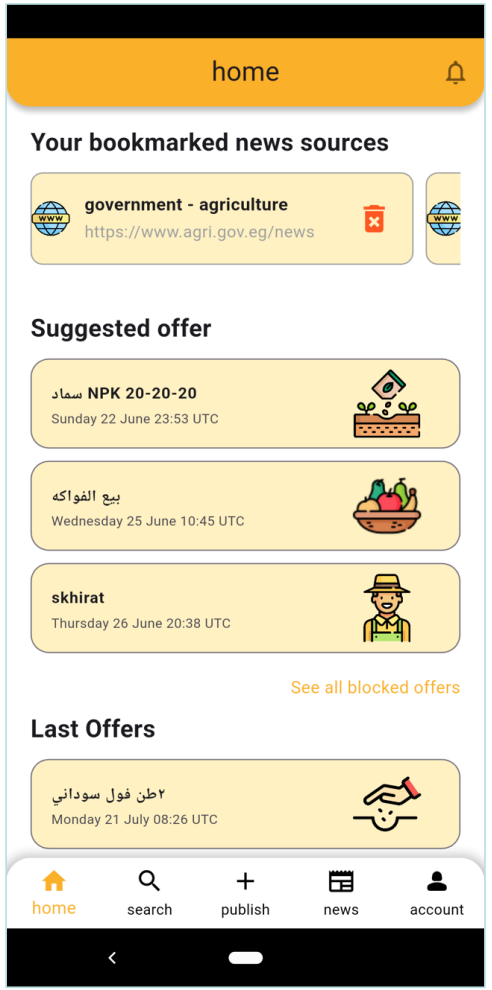
THE RESILINK DEMONSTRATOR

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

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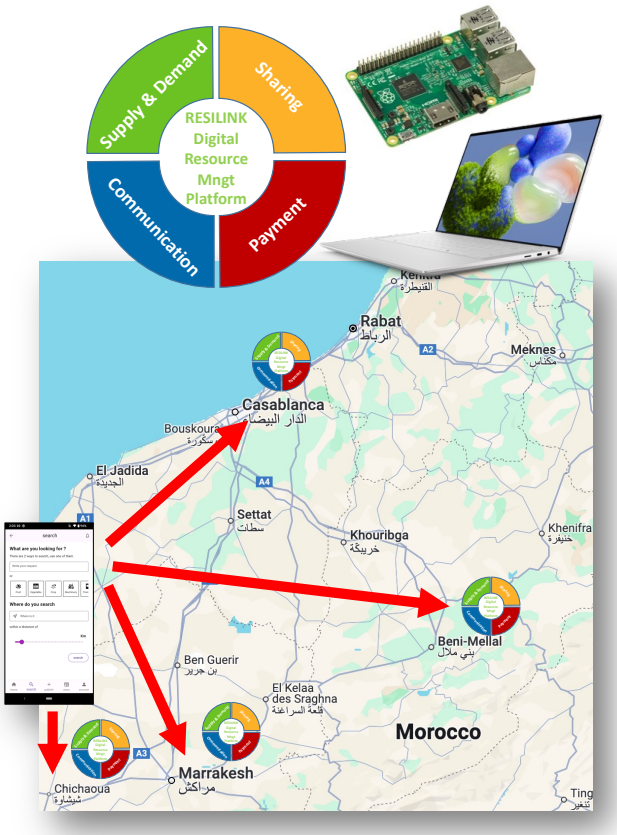
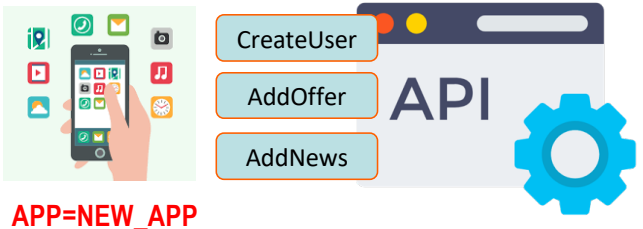
THE INNOVATIONS BEHIND THE APP!

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





APP=NEW_APP

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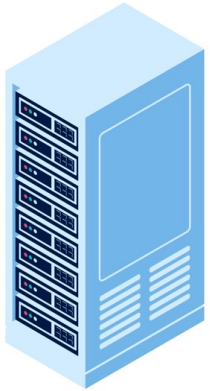
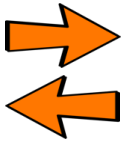
TRADITIONAL DIGITAL PLATFORMS vs LIGHTWEIGHT SERVERS

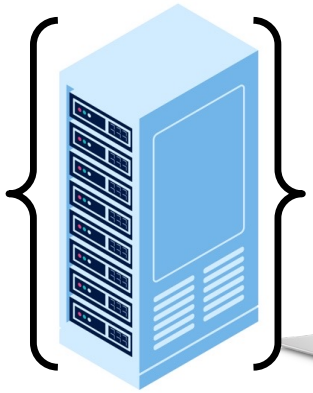




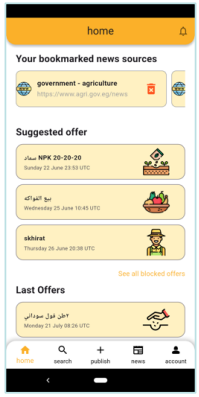
- Develop lightweight Digital Platforms that can be quickly & locally deployed
- Digital Platforms can be incrementally deployed for various geographical areas
- Open API will enable Platform-of-Platforms approach to extend the ecosystem

BACK-END

FRONT-END



RESILINK



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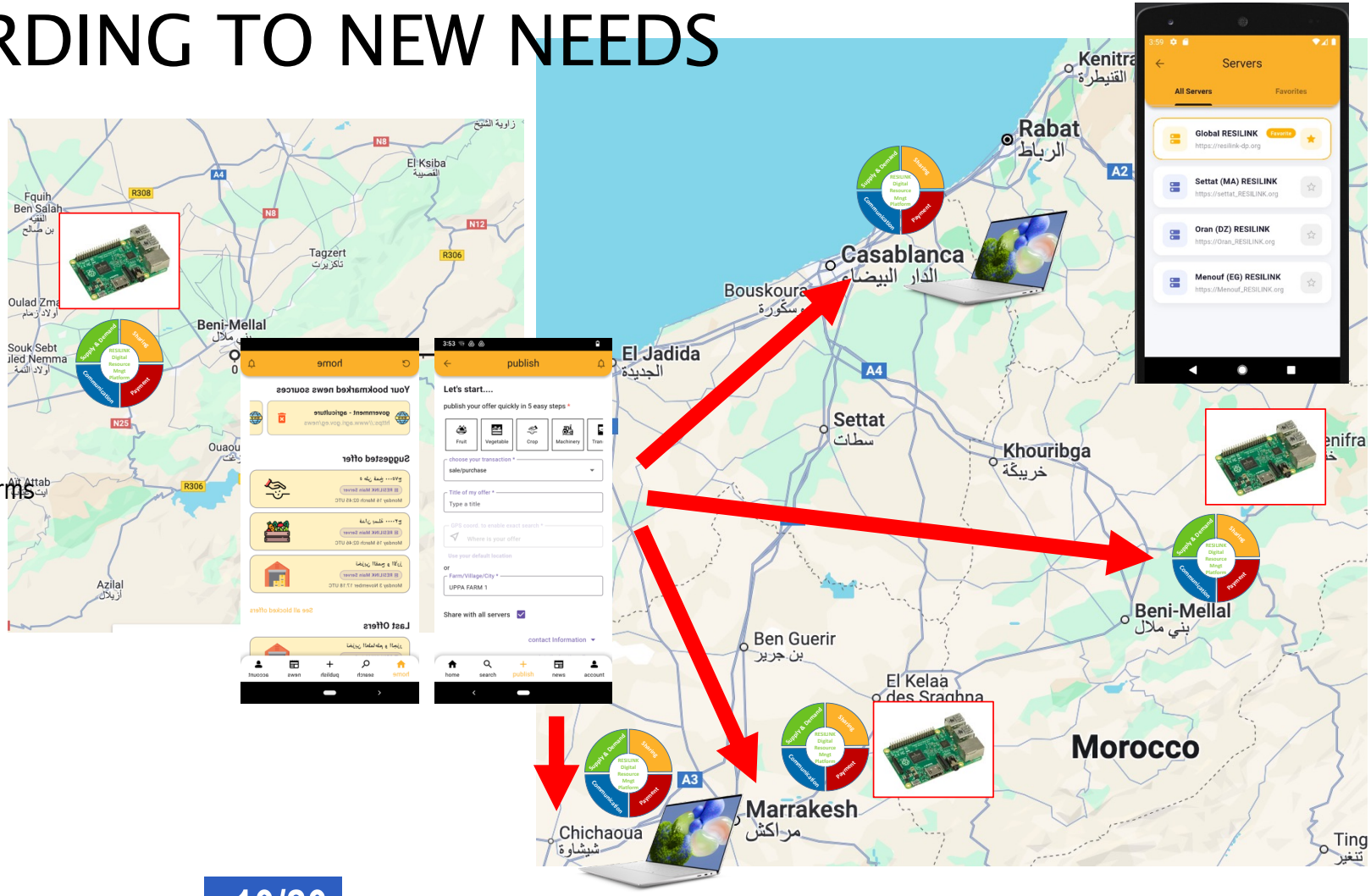
INCREMENTAL DEPLOYMENT OF SERVERS ACCORDING TO NEW NEEDS

- 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



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QUICK DEVELOPMENT OF NEW PLATFORMS, STIMULATING LOCAL INNOVATIONS

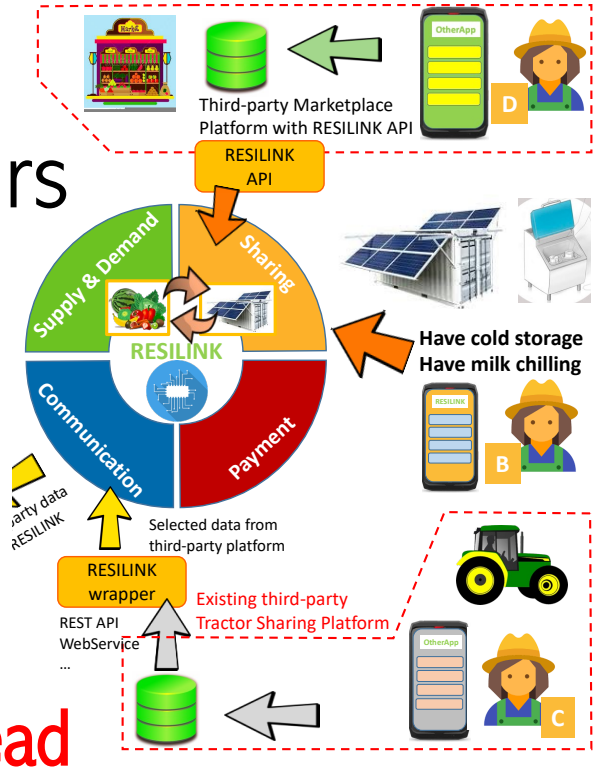
Develop lightweight Digital Platforms that can be quickly & locally deployed

Digital Platforms can be incrementally deployed for various geographical areas

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

Fast development of new applications by local entrepreneurs

New applications will bring new functionalities for specialized needs



Open API = Collaboration instead of Isolation !

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ORANGE'S LOCKITSOLAR DEMONSTRATOR

LocKitSolar is a demonstration application showcasing how to leverage the RESILINK API for building a solar product marketplace.

- Develop lightweight Digital Platforms that can be quickly & locally deployed
- Digital Platforms can be incrementally deployed for various geographical areas
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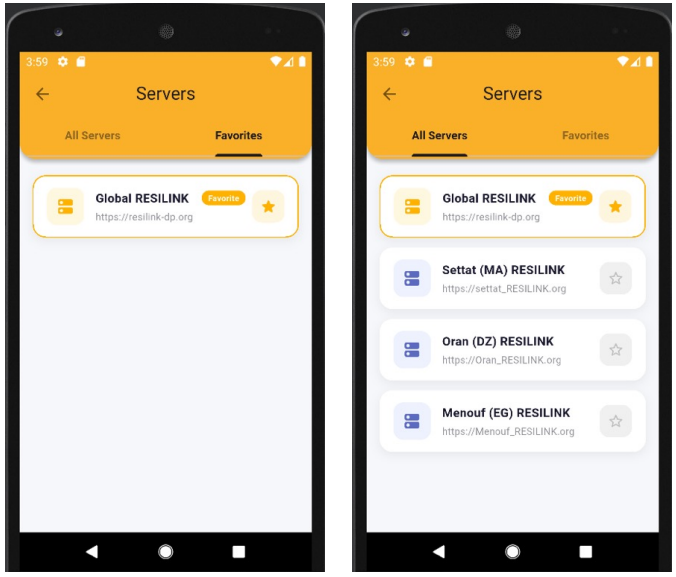
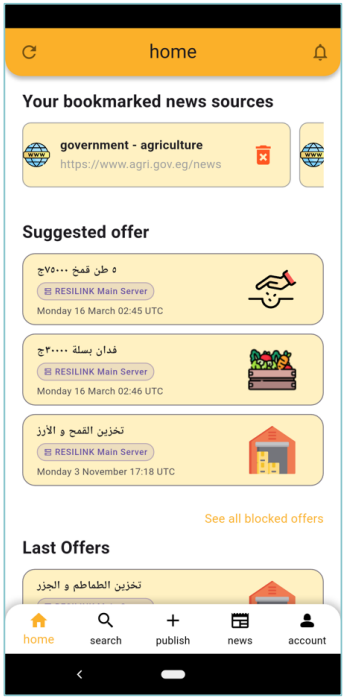
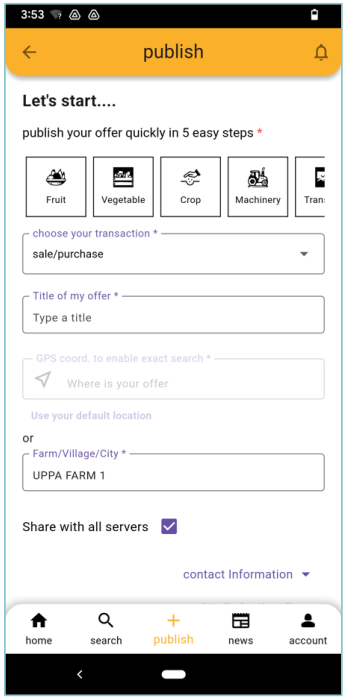
THE PLATFORM-OF-PLATFORMS ECOSYSTEM

→ Several servers can be deployed and selected

→ Offers can be shared across servers and applications







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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

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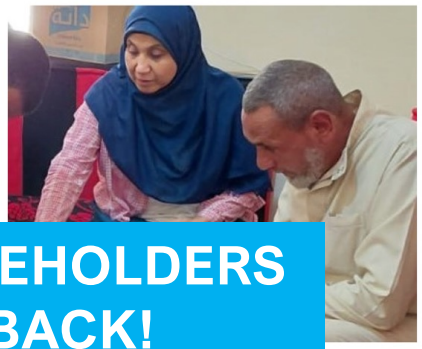
INTERVIEWS, TESTS & LIVING-LABS

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!

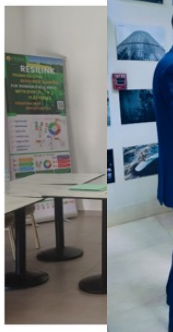
European Union

INTERVIEWS, TESTS & LIVING-LABS

RESILINK received a lot of support from smallholder farmers!

Dec. 10th, 2024, Morocco

Dec. 10th, 2024. As part of the RESILINK Evaluation Program, INRA in Morocco has st
sessions to install and use the RESILINK Mobile Application. The Evaluation session w
proposing various agriculture services in the Labrachoua village. Farmers were able to
mobile application. As farmers are familiar to the farm environment, discussions have b
manner, easing the collection of feedback after the installation and the demonstration o



Nov. 18th, 2024, Egypt

Dec. 26th, 2024, Morocco

Jan. 5-6, 2025, Egypt

Nov. 19th, 2024, Morocco

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ALL SOFTWARE ARE OPEN SOURCE!

The BACK-END server is open source

The demonstrator mobile application 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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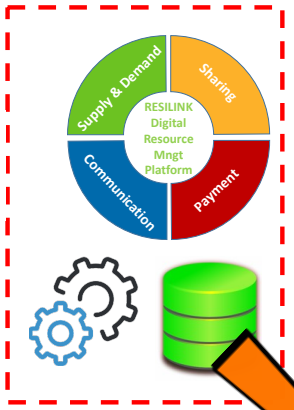
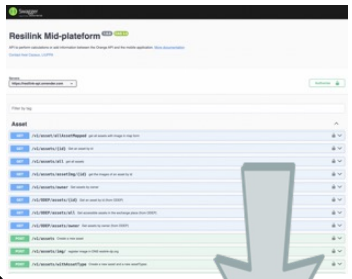
TAKE THE MOST OUT OF GEN AI!

BACK-END SERVER

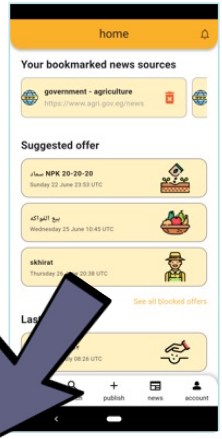


GitHub

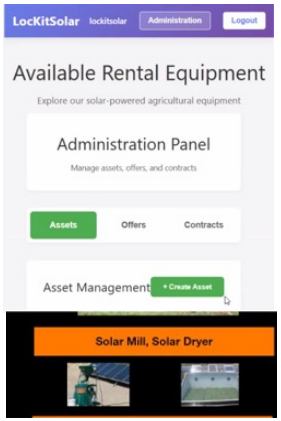
OPEN API



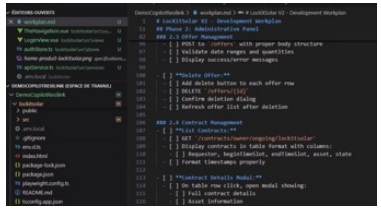
RESILINK MOBILE APP DEMONSTRATOR

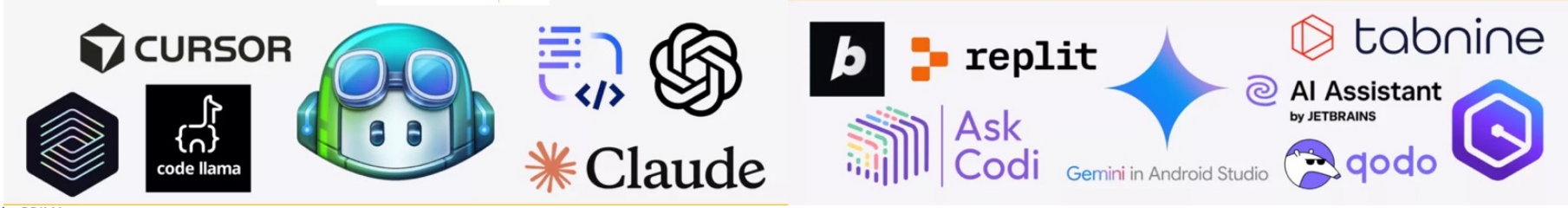


ORANGE'S DEMONSTRATOR FOR SOLAR KIT RENTAL



DEMO BY ORANGE WITH COPILOT





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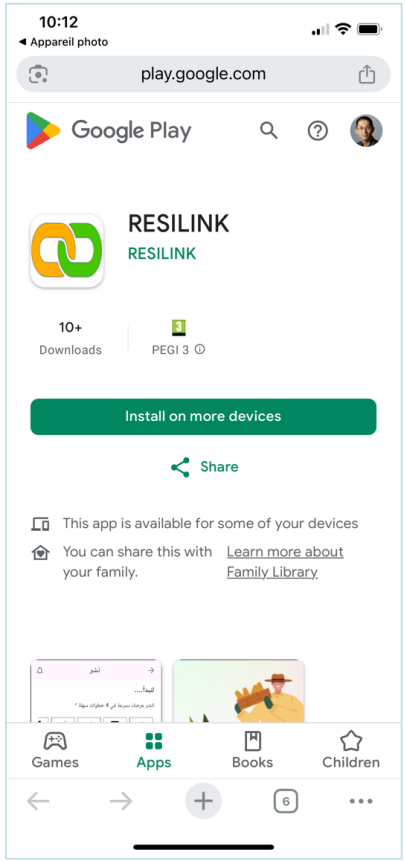
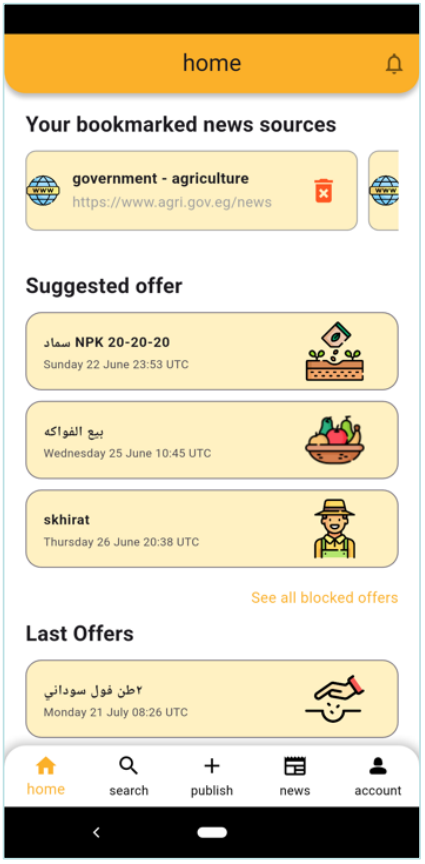
RESILINK MOBILE APP ON GOOGLE PLAY





INSTALL THE APP

CREATE AN ACCOUNT

AND START PUBLISHING OFFERS

TO CREATE A COMMUNITY

FLASH TO INSTALL

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ACKNOWLEDGEMENTS

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WAZIUP eV: WAZIUP association — associated partner — Germany

Thank you!

FARMERS, STAKEHOLDERS, COLLABORATORS, ETC.

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PRIMA — PARTNERSHIP FOR RESEARCH AND INNOVATION IN THE MEDITERRANEAN AREA

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