PRIMA
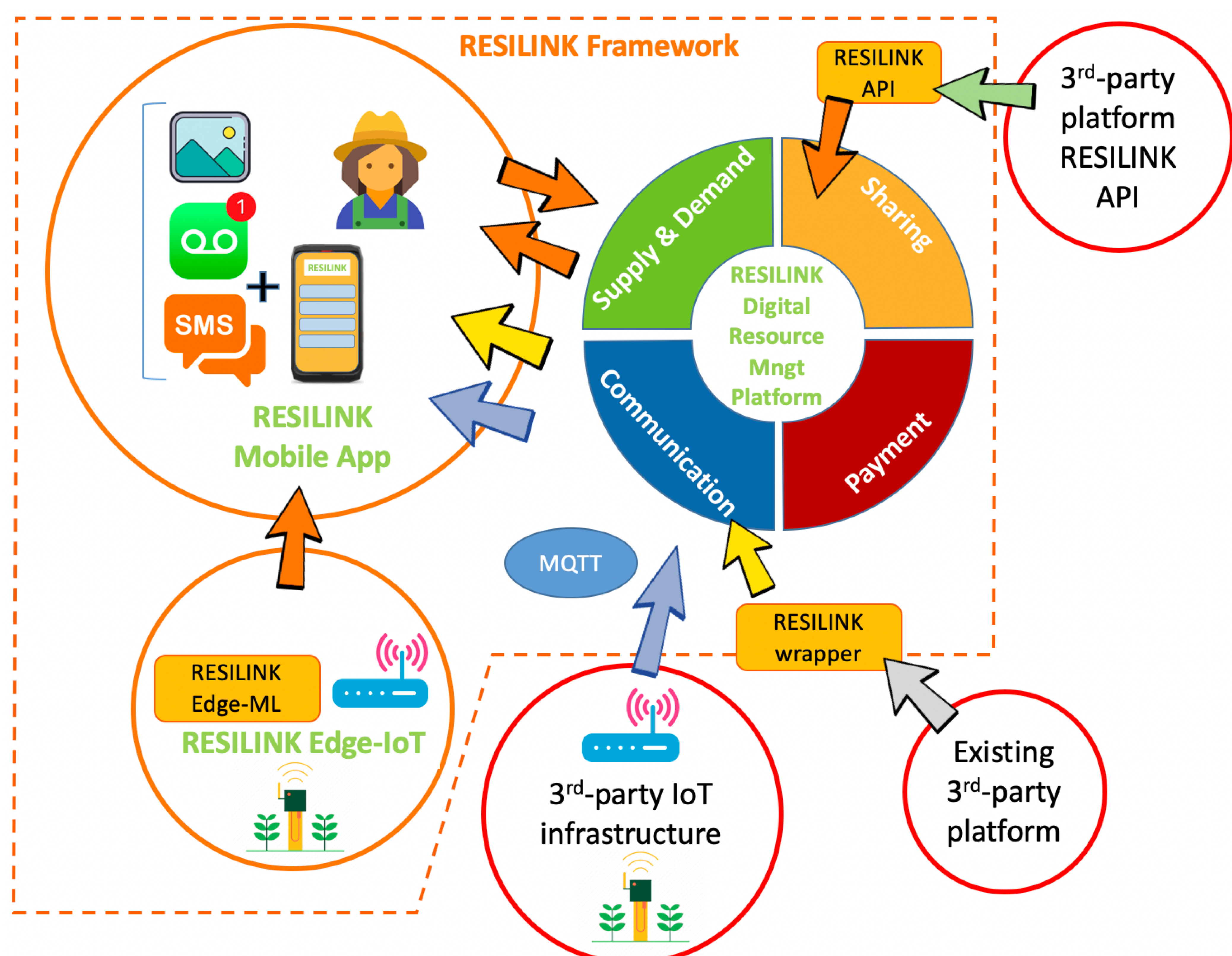**PARTNERSHIP FOR RESEARCH AND INNOVATION IN THE MEDITERRANEAN AREA**

RESILINK

PROMOTES LOCAL RESOURCE SHARING
FOR INCREASED RESILIENCE
WITH DIGITAL PLATFORMS
CREATING NEW OPPORTUNITIES

https://resilink.eu

✓ **lightweight**

✓ **distributed**

✓ **open API**

✓ **mobile app**

✓ **edge IoT/AI**

✓ **platform–of platforms**

RESILINK Framework

RESILINK API — 3rd-party platform RESILINK API

Supply & Demand · Sharing · Payment · Communication

RESILINK Digital Resource Mngt Platform

RESILINK Mobile App

SMS

MQTT

RESILINK Edge-ML — RESILINK Edge-IoT

3rd-party IoT infrastructure

RESILINK wrapper — Existing 3rd-party platform

RESILINK info diagram

1 Improve the agri-food value chain by optimizing usage of local resources, generalizing local resource sharing approach and facilitating territorial markets

2 Develop distributed digital resource management platform for real-time exchange of information on territorial resources and supplies & demands; connecting smallholders to new supply, sharing opportunities and distribution channels

3 Use cutting-edge digital technologies to connect fields and farms resources, automatize and add intelligence in the agri-food value chain to provide simple application interfaces adapted to smallholders

4 Implement an incremental piloting & evaluation program to maximize smallholders' acceptability, large-scale adoption and sustainable usage (even in non-crisis situations)

5 Provide a long-term and sustainable crisis management in the agri-food value chain

6 Improve local innovation capacity and facilitate technology appropriation

RESILINK Mobile App

RESILINK Digital Resource Mngt Platform — Supply & Demand · Sharing · Payment · Communication

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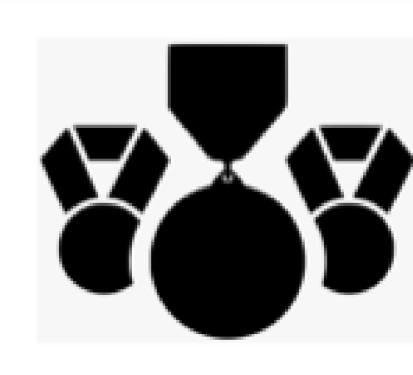**RESILINK develops the generalized & localized resource sharing concept for increased resilience in the agri-food chain**

IoT automation for efficient resource sharing	Linked-data, AI-based smart discovery and matching of local & territorial resources
Innovative multiple knowledge streams framework for efficient and adapted resource management in fast-evolving crisis scenarios	

RESILINK digital plaforms are co-designed to meet the needs & requirements of remote rural smallholders communities

Local agri-food chain characteristics and user acceptance deeply studied	Integrated data privacy, security and traceability
Intuitive RESILINK mobile app user interface	Robust & fully ditributed Edge architecture for high availability of service

RESILINK runs an extensive piloting & evaluation program with smallholders for large-scale testing

33 months Living-Lab Piloting in Egypt, Morocco and Algeria

At least 2 Calls for Competitions & Challenges

Large-scale evaluation program reaching at least 200 smalholders

At least 8 dissemination & demo events

RESILINK provides open architecture and API for the platform-of-platforms approach to seamlessly integrate third-party platforms into comprehensive dashboards/portfolios for large-scale adoption and innovations in the local agri-food chain

RESILINK includes a mentoring and pre-incubation program for a number of selected partnertships

At least 5 third-party platforms using RESILINK open API

Create synergies with smallholders, local agri-food chain actors, agri/farming-related agencies/institutes, tech-enthusiasts, DIHs, economic multipliers & stakeholders, policy-makers,

INPUT · PRODUCTION · PROCESSING & DISTRIBUTION · MARKETING · CONSUMER

PRIMA IN THE MEDITERRANEAN AREA

Liaison with at least 2 other PRIMA/EC projects on agri-food chain related issues

At least 5 partnerships in the mentoring and pre-incubation program

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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 — France (coordinator)

WAZIUP eV: WAZIUP association — Germany (associated partner)

RESILINK