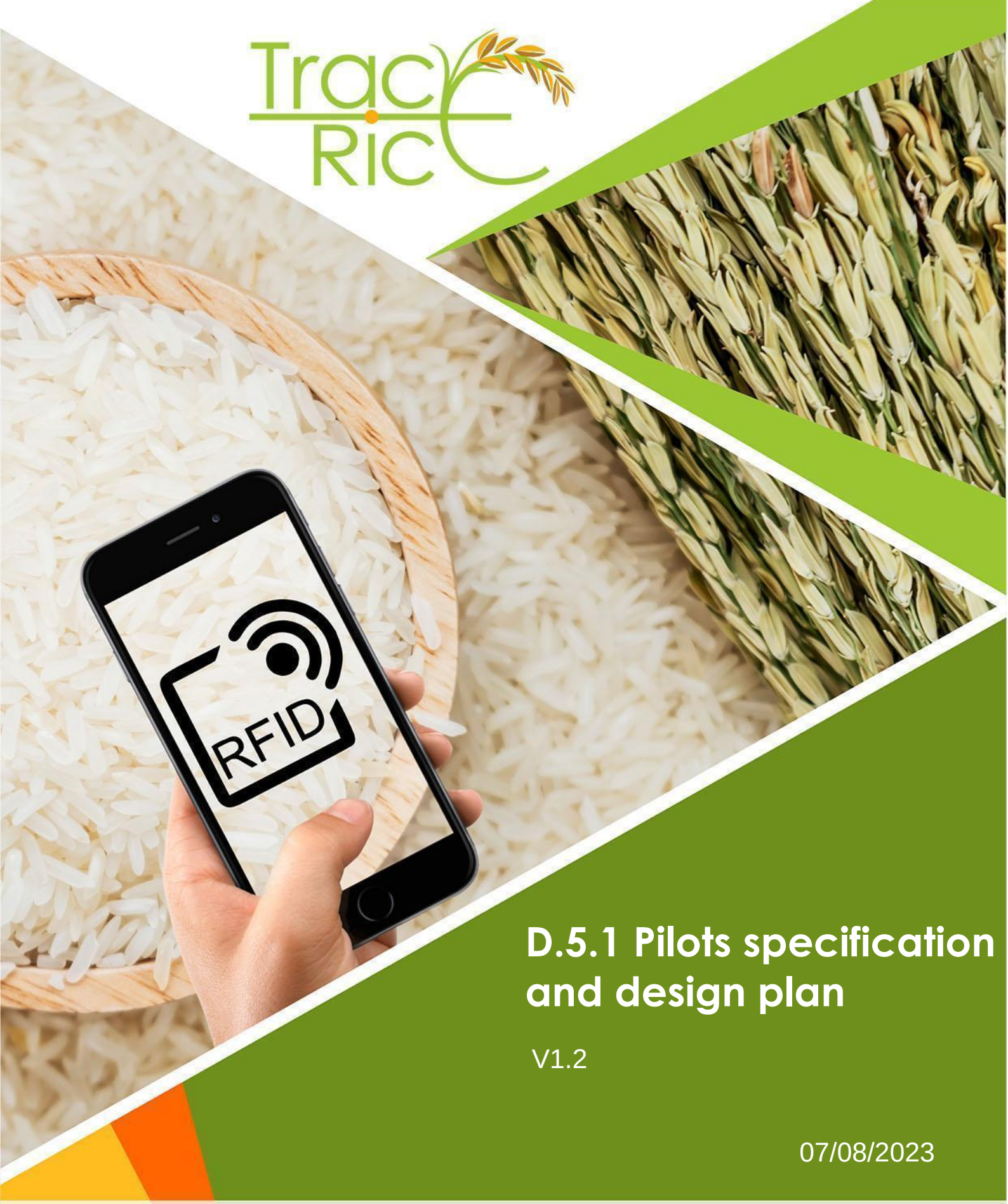


# D.5.1 Pilots specification and design plan

V1.2

07/08/2023

TRACE-RICE with Grant nº 1934, is part of the PRIMA Programme supported under Horizon 2020, the European Union's Framework Programme for Research and Innovation

PRIMA
PARTNERSHIP FOR RESEARCH AND INNOVATION IN THE MEDITERRANEAN AREA

http://trace-rice.eu

# TECHNICAL REFERENCES

| | |
|---|---|
| **Project Acronym** | TRACE-RICE |
| **Project Coordinator** | Carla Moita Brites |
| **Project Duration** | September 2020 – August 2024 (48 months) |

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|---|---|
| **Deliverable No.** | D5.1 |
| **Dissemination level*** | CONFIDENTIAL |
| **Work Package** | WP5 -EXPLOITATION AND REPLICABILITY |
| **Task** | T5.1- Pilot Design and Users Training |
| **Lead beneficiary** | INIAV |
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| HISTORY OF CHANGES | | | |
|---|---|---|---|
| Date | Beneficiary | Version | Change |
| 24 October 2022 | BGI | V0.1 | Document started. |
| 28 October 2022 | BGI | V0.5 | First draft version. |
| 29 March 2023 | BGI | V1.1 | Version complete. |
| 04 August 2023 | BGI | V1.2 | Add calendar. |
| 07 August 2023 | BGI | V1.2 | BGI send the pilot specification and design plan D.5.1 to INIAV. |

[Report Description:]

Title: D.5.1 Pilots specification and design plan

Written by: BGI

Date: 07/08/2023

Abstract: This report specifies and plan the Trace-Rice pilots in Spain and Egypt

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# 1. INTRODUCTION

The main objective of this delivery is to specify and plan the two pilots, in Spain and Egypt, that will be performed on the WP5 of Trace Rice project.

Based on the initial analysis performed during the pilot in Portugal, a specification and plan will be developed for the pilot trial execution plan, allowing the evaluation of the TRACE system in two real life settings and conditions.

By participating in this pilot, they will have the opportunity to contribute to the development of innovative solutions and gain insights into optimizing their own operations.

# 2. SPECIFICATIONS

To have successful pilots we need to develop an assessment of the local available resources and a specification of what needs to be present, added, extended or adapted for the support of the proposed pilot will be made.

An important aspect of the work carried out will be the recruitment of companies that will participate in the pilots. The consortium, with the help of the local partners, will procure local companies to participate in the pilot.

The participation of the companies will be free of charge. They will have several benefits such as: Map the value chain in a unified way that represents how operators see all processes, resources, and measurements involved; Allow operators to register their activities in a simple and intuitive user interface; Allow operators and final consumers to trace and track products (up- and downstream); Allow operators to use the recorded data for monitoring and control (basis for quality management systems and other certifications, inclining future standards for rastreability).

Along these activities, evaluation tools will be incorporated in the process. This task will also include the training of users so that they can operate correctly the system developed on WP4.

At this stage, we need to assess the available local infrastructure, how the system will operate, how the evaluation data will be collected and what kind of training will be needed.

# 3. PLANING

To execute the two pilots in the selected sites (Spain and Egypt) and carry out the evaluation of the acceptance of the system a plan was developed.

## PILOT'S PHASES

**1 - VALIDATION**

The Validation Phase is focused on the analysis of ICT solution develop for the Portuguese Pilot and validate if it can be used on the pilots to be develop on Spain and Egypt.

We need to validate if this model and its variables maintain its application or require adjustments to adapt to local conditions.

TraceAbility is an app, so it needs that the local partners use smartphone, tablet, or a computer to insert the information on the system.

**2 - SET-UP AND CUSTOMIZATION**

The criteria and procedures for the two planned pilots will be defined.

The potential customizations operations on the app will be performed and validated with the local partners.

The data interfaces with information technology systems of the local companies will be developed.

**3 - PILOT EXECUTION**

Each pilot site in Spain and Egypt will be supported by the partner in their respective country throughout the pilot tests.

In general, the rice process on the pilot's scope will cover the harvesting and deliverance of the raw material (rice), the partners involved in the transformation of the raw material into high value products, the market partners that use the high value products and the eventual technological partners.

**4 - EVALUATION**

This will be done by analyzing and reporting on results of the two pilots, considering its technical, economic, and social dimensions. Reporting on the progress and results of the pilot trials will include successes, failures, experiences gained as well as a retrospective evaluation of the approach taken in defining services, setting up and running the trials.

This task will run in parallel with the pilot’s operation with the objective to collect the necessary information for the validation of the implemented solution. Information will be recorded regarding usage, via questionnaires to the end-users and other stakeholders to evaluate the impact and the potential cost effectiveness.

This evaluation will contribute to the exploitation strategy definition (task 5.4), pursuing the objective

of mapping, characterizing, and elaborating individual strategies for the market, scientific and policy uptake of all exploitable project results after the end of the TRACE-RICE project.

## CALENDAR

Here is a timeline that includes the key phases and activities involved in the pilot trials. The duration of each phase may vary depending on the complexity of the local situation and the resources available.

1. **INTRODUCTION PHASE (Duration: 1 month)**
   - Review and finalize the project objectives and scope for the pilots in Spain and Egypt.
   - Connect with the consortium members involved in the pilots.
   - Define the general timeline and milestones.

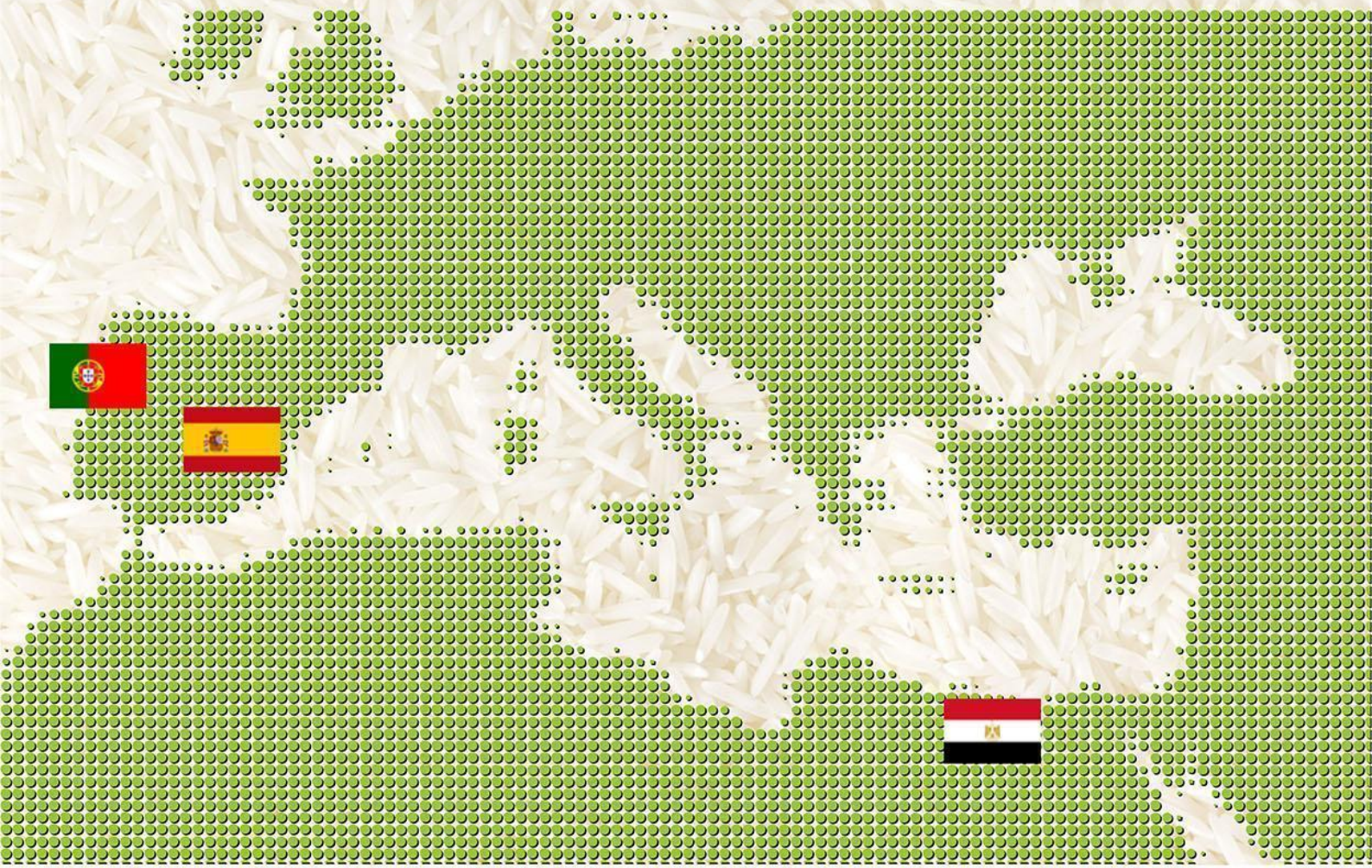
2. **SPECIFICATIONS PHASE (Duration: 2 months)**
   - Assess the local available resources in Spain and Egypt for the pilots.
   - Recruit local companies to participate in the pilots, ensuring their participation is free of charge.
   - Specify the necessary adjustments and adaptations needed to support the pilot trials in the respective countries.
   - Analyses of what type of training will be needed in each pilot.

3. **PLANNING PHASE (Duration: 1 month)**
   - Develop a plan for the execution of the two pilot trials in Spain and Egypt.
   - Define criteria and procedures for the pilots' setup and customization.
   - Collaborate with local partners to validate any customizations on the app.
   - Develop data interfaces to integrate information technology systems of the local pilot companies.

4. **PILOT PHASES (Duration: 3 months)**
   - VALIDATION: Ensure the solution developed for the Portuguese pilots can be used in Spain and Egypt. Validate the data model and variables, making adjustments if necessary.
   - SET-UP AND CUSTOMIZATION: Perform final customizations on the app and validate them with local partners. Develop data interfaces with local pilot companies' IT systems.
   - TRAINING: Conduct sessions for users on how to operate the Tracebility apps.
   - PILOT EXECUTION: Support each pilot site in Spain and Egypt throughout the pilot tests. Cover the entire rice production process, from harvesting to the market partners' involvement.
   - EVALUATION: Run an evaluation in parallel with the pilot's operation to collect necessary information for the validation of the implemented solution. Record usage information via questionnaires to evaluate the impact and cost-effectiveness.

5. **REPORTING AND EXPLOITATION STRATEGY (Duration: 1 month)**
   - Analyze and report on the results of the two pilots, considering technical, economic, and social dimensions.
   - Present successes, failures, experiences gained, and retrospective evaluation of the approach taken in defining services and running the trials.
   - Contribute to an exploitation strategy for the market, scientific, and policy uptake of the project results after the TRACE-RICE project.

# TRACE-RICE



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