

RaDAR InfoDay

This presentation is an indication of a potential future procurement activity and is subject to change until the publication of the RfT

All the information regarding RaDAR project will be published on the following website:

https://radar-ppi.com/





Antimicrobial Resistance Problem





The Problem

In 2019:

- **4.95 million** people died from illnesses in which bacterial AMR played a part.
 - **1.27 million** as direct result of AMR.

More deaths than cancer by 2050

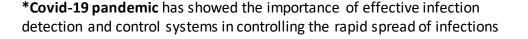
High economic burden: **1.5 billion** euros annually in healthcare costs and productivity losses in EU

The manner we treat infections now will endanger our health in the future

The Need

To respond Joint Action on Antimicrobial Resistance (EU-JAMRAI) and EU Action plan (2017-2020):

- Improve early detection systems to ensure quality care process
 - Screen drug-resistance and virulence to improve treatment effectiveness
- Reduce both healthcare and governmental costs
 - Reporting and rapid communication to increase system resilience*









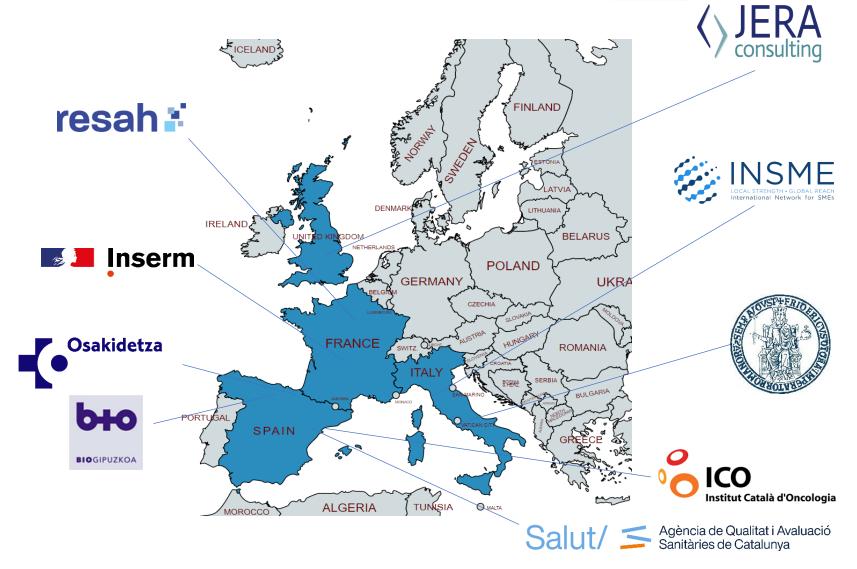
Consortium

Buyers

- 1. RESAH (Lead Procurer) France
- 2. Basque Health Service Spain
- 3. Catalan Institute of Oncology Spain
- 4. University of Naples Federico II Public Health Department Italy

Supporting Entities

- 5. AQuAS (Coordination) Spain
- 6. INSERM France
- 7. INSME Italy
- 8. JERA-UK
- 9. BG-HRI- Spain







RaDAR Buyers Group

Osakidetza

Catalan Institute of Oncology (ICO)

Basque Health Service

16 hospitals160 Primary Care Centers2.71 million population





Reference Oncology Center in Catalonia

4 oncology centers

VINCat: 73 hospitals; 370 Primary Care Centers;

92 socio-health centers

7.57 million population

Central Purchasing Body in France

Preparatory phase at the University Hospital of Limoges

130 regional hospitals67.75 million population





Department of Public Health – University of Naples Federico II

Federico II University Hospital - 1500 medical staff members.

Provides specialized services for: Local health agencies, hospitals, public and private organizations.

5.87 million population

Resah

UNINA -Campania



Demand/Needs Desirability Assessment Problem identification and Needs Elicitation

Needs Verification, Requirements prioritization & Business case

From needs to CfT definition methodology

Market Maturity and Feasibility
Assessment

State of the Art

Open Market Consultation

Demand Feasibility and Viability
Assessment

WP3

WP2

Challenge Brief

WP1

Contract permeable to the value

Governance allocating decision rights and risks with suppliers

Methodological framework for PCP/PPI © 2023 by Innovation and Prospective Unit at Agència de Qualitat i Avaluació Sanitàries de Catalunya

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Unbundled approach:

R&D Agreement/Pre-Commercial Procurement followed by a Public Procurement of Innovation

Bundled approach: Innovation Partnership

Public Procurement of Innovation

Regular Public Procurement



Current workflow





- ✓ Lack of screening
- ✓ Difficulties for key data visualization

- ✓ Complex sample extraction
- ✓ Lab-based slow diagnostic test
- ✓ Specialized personnel for testing and data interpretation
- Not appropriate use of broad spectrum antimicrobial (empiric treatment)
- ✓ Difficulties for communication between important stakeholder
- ✓ Difficulties for key patient data visualization before decision making
- ✓ Difficulties for stewardship data visualization (local & regional)

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- ✓ Not targeted antimicrobial prescription



Current workflow



Suspicion of infection Sample extraction

Test

Sample process

Sample transfer pat

Sample processing at the lab & Empiric treatment to patient

Test results Diagnosis

Treatment decision & Control measures

Treatment & Patient follow-up

- ✓ Lack of screening
- Difficulties for key data visualization

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RaDAR Market Readiness Assessment



Market Sounding

PIN launch: 25 November 2022 Deadline: 27 February 2023



International Open Market Consultation Event

ONLINE



Local Market Consultation Events F2F / ONLINE



Bilateral Meetings

International: 1st March 2023

Naples: 2 March 2023 Paris: 8 March 2023 Barcelona: 9 March 2023

San Sebastian: 10 March 2023

Open to any interested part of the supply chain.
Mid-March/April 2023

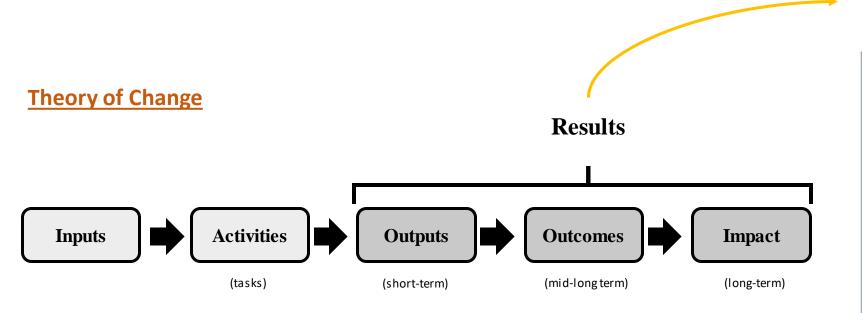
Market engagement	Numbers
PINs	5
Market Consultation Events	5
Responses to the market sounding	67
Total (market) participants in market consultation events	164
Market contacts informed of market sounding launch	263
Bi-lateral (buyer - suppliers) meetings*	48
Countries represented in bi-lateral meetings	12











Theory of Change presented in a result chain per stakeholder





Theory of change: RaDAR PPI results future procurement activity and is subject to Information access, visualization and data aggregation change until the publication of the RfT Training and support MDRO detection Interoperability Regulation Infection prevention control and stewardship **Medical Device Impact Treatment and Management Appropriateness** Other important considerations: Professionals involvement in the design process - Continuous improvement: modularity and flexibility to **AMR Integrated Smart Management** integrate new systems - Learning capacity of RaDAR solution change **Outcomes Improve Patient** Improve Pathogen **Improve Sample Improve Prescription** Management Management Management Management of Healthcare professional data visualization (for patient, pathogen, sample and prescription management) **Output** Support for pathogen and onsite management Theory Rapid Detection and Management Information system & Onsite and pathogen support system (both including health professionals communication system & RaDAR configuration and performance monitoring system) Access up to date digital **Automatic recording** Patient data Training for Continuous **Environmental** Onsite and pathogen guides, protocols and into the EHR and the LIS **Activities** information professionals to technical support infection control detection guidelines Integration of diagnosis visualization use RaDAR solution and maintenance system results. outcomes... Structured data Real time result Interoperability with Patient protocol Incentivize Rapid Training in collection, Remote support from communication to personal healthcare follow-up the Standard detection detection AMR for assessment and the stewardship team the appropriate system, EHR, LIS, HIS, PIS adherence to selection and system of MDROs of MDROs

task assignment

professionals

guidelines

and protocols

This information is an indication of a potential

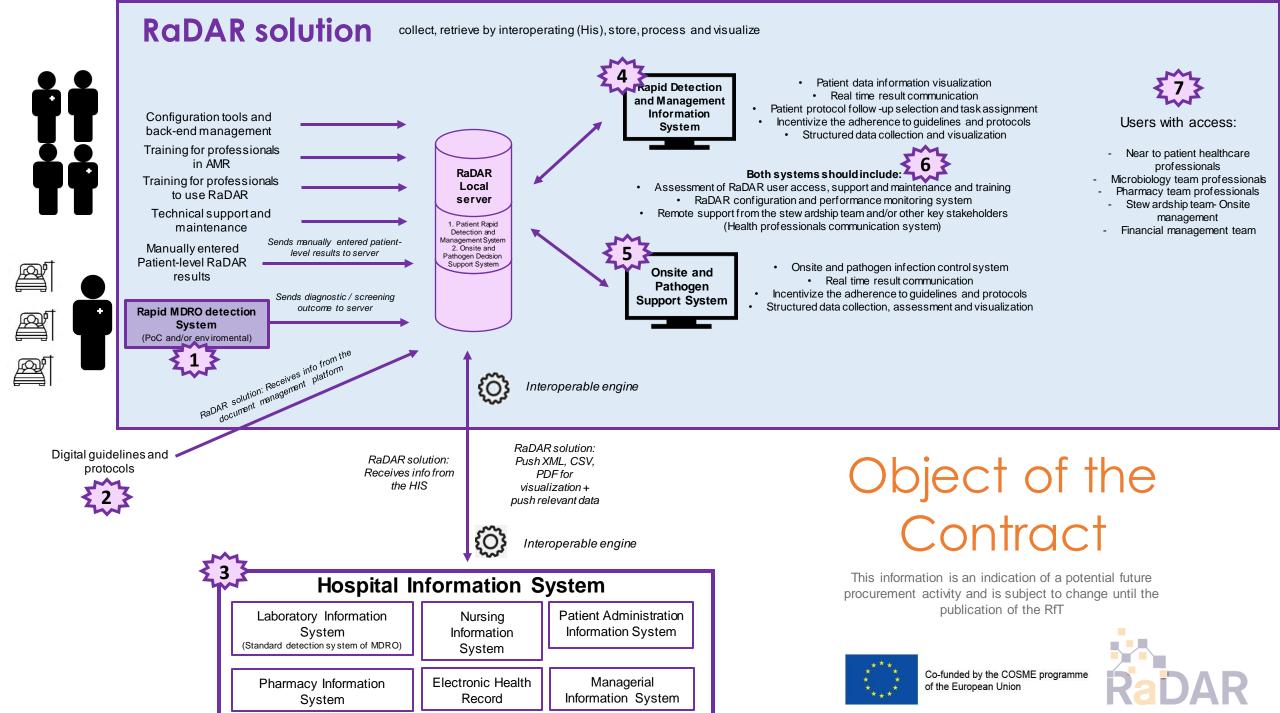
Areas of intervention

visualization

or key professionals

professionals

and/or other systems



Workflow after RaDAR implementation



Rapid Detection and Management Information System

Test **Treatment RaDAR** Screening or **Treatment & Patient follow**selection & decision & Test Diagnosis rapid Suspicion of Sample results Control up infection detector measures extraction

Onsite and Pathogen Support System

RaDAR configuration and performance monitoring system

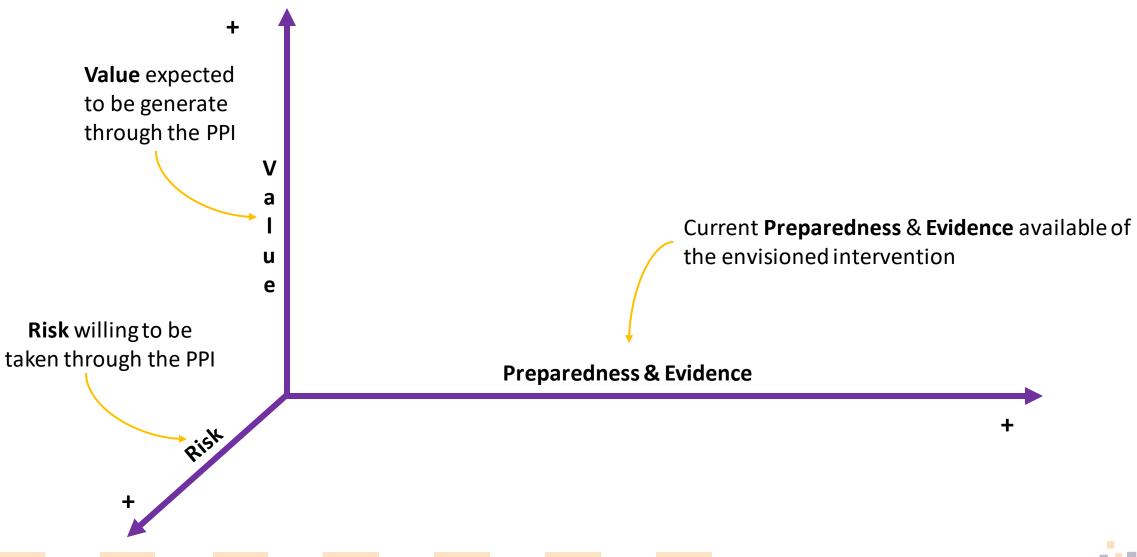
Health professionals communication system

Training & Continuous support and maintenance



Levels of value, risk, preparedness and evidence

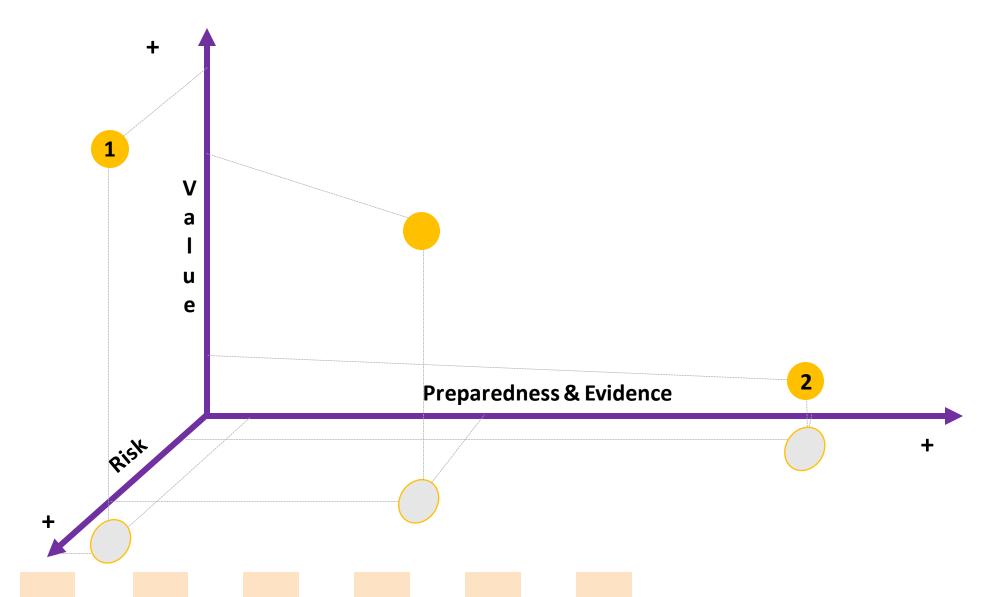






Levels of value, risk, preparedness and evidence

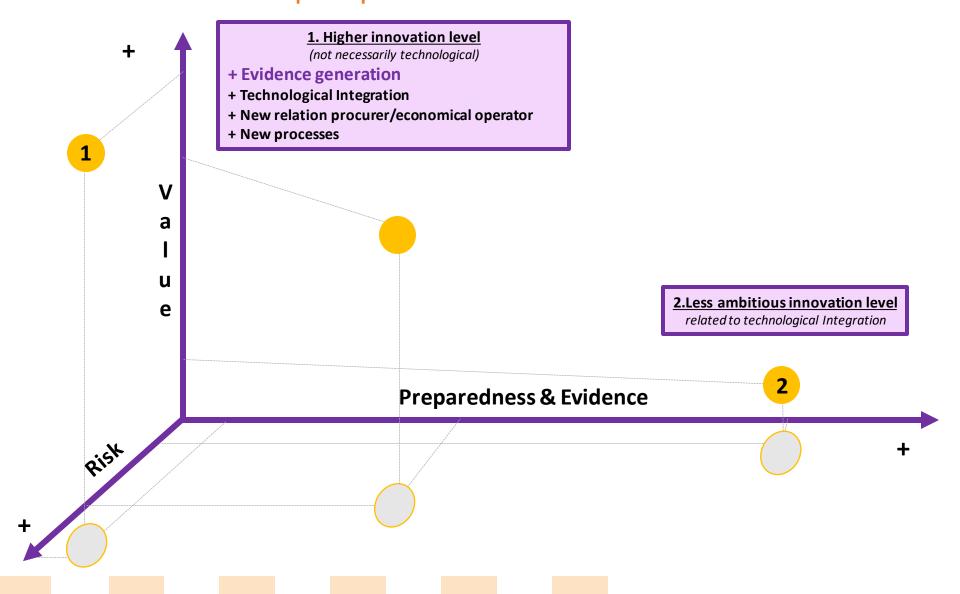






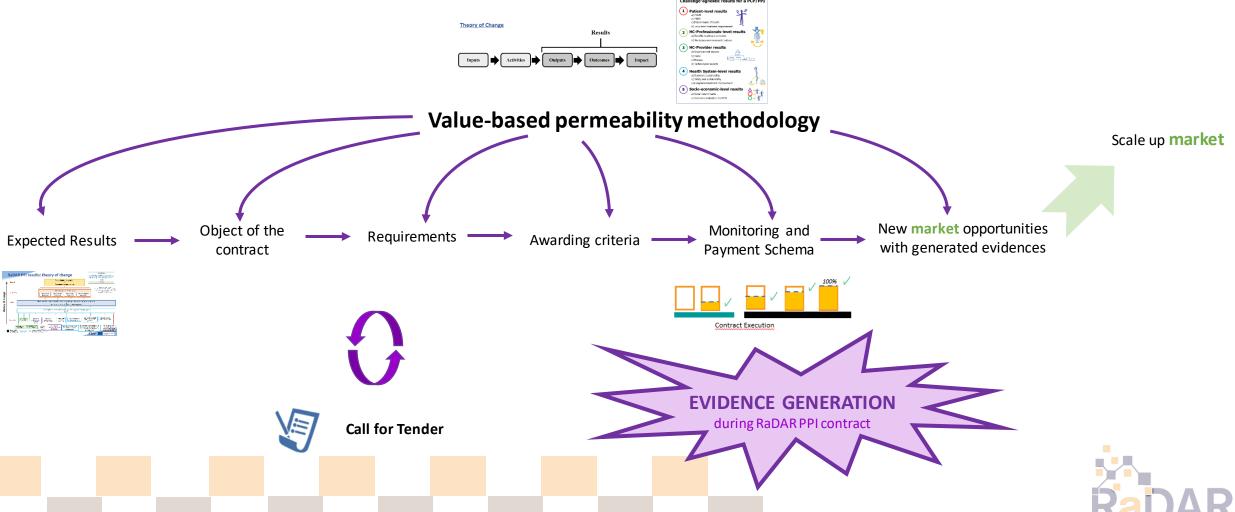
Levels of value, risk, preparedness and evidence







Value-based permeability methodology applied to RaDAR to elaborate the Evaluation Framework



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Thank you!

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