



UNIUNEA EUROPEANĂ



Instrumente Structurale
2014-2020



METRO FOOD • RO



Proiect cofinanțat din Fondul European de Dezvoltare Regională prin Programul Operațional Competitivitate 2014-2020



METROFOOD-RO network under the European METROFOOD-RI Infrastructure



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What is METROFOOD ?

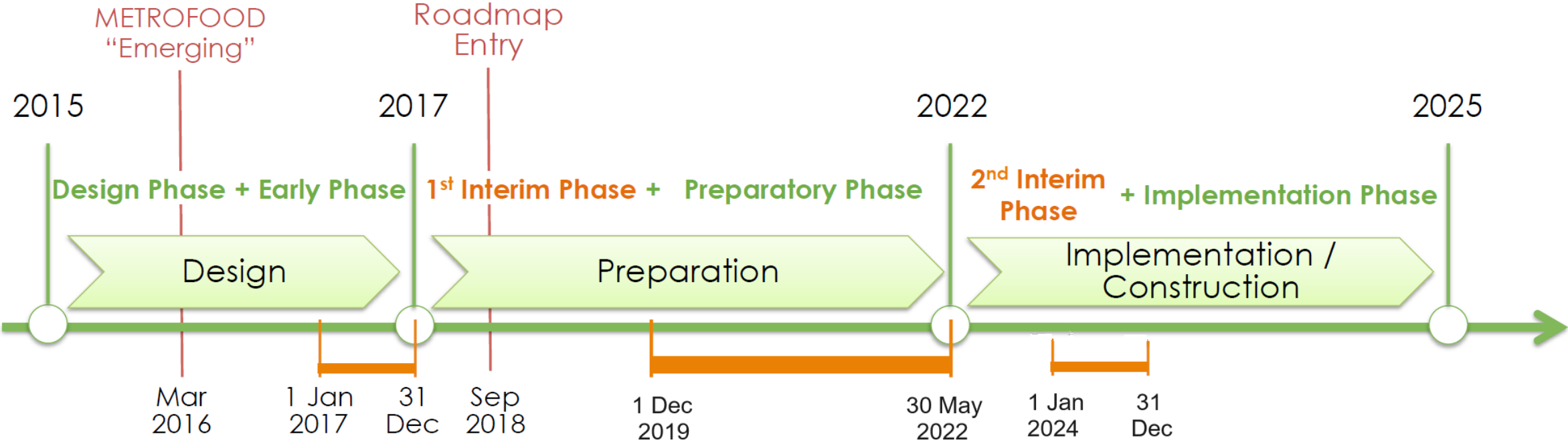
METROFOOD-RI - *Infrastructure for promoting Metrology in Food and Nutrition* is a new distributed Research Infrastructure aimed to promote scientific excellence in the field of food quality and safety.



It provides high-quality metrology services in food and nutrition, comprising an important cross-section of highly interdisciplinary and interconnected fields throughout the food value chain, including agrifood, sustainable development, food safety, quality, traceability and authenticity, environmental safety, and human health.




METROFOOD-RI timeline



Mar 2016




48 partners (20 beneficiaries + 28 associated partners) from 18 countries (15 EU + 5 associated)


 Italy - IT (1 + 11)

 Belgium - BE (1)

 Switzerland - CH (1)


 Czech Republic - CZ (2 + 1)

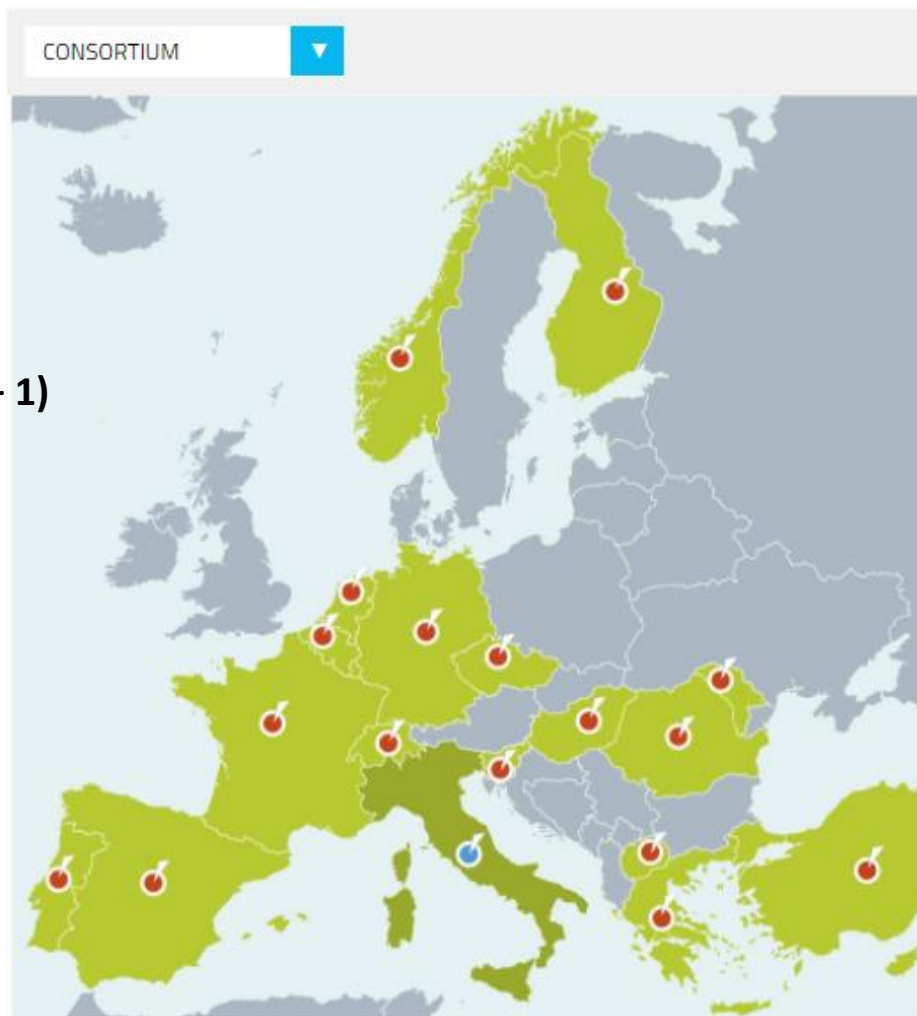
 Germany - DE (1)


 Spain - ES (1 + 1)

 Finland - FI (1)

 France - FR (1 + 2)

 Greece - GR (1 + 5)



 Hungary - HU (1)

 Moldova - MD (1)

 Macedonia - MK (1 + 1)

 Netherlands - NL (2)

 Norway - NO (1)

 Portugal - PT (1 + 2)

 Romania - RO (1)

 Slovenia - SI (1 + 5)

 Turkey - TR (1)



ICIA (Cluj-Napoca)

INCDO-INOE 2000 subsidiary Research Institute for Analytical Instrumentation ICIA



INCDTIM (Cluj-Napoca)

National Institute for R&D of Isotopic and Molecular Technologies



USV (Timisoara)

University of Life Sciences "King Michael I"



OncoGen (Timisoara)

excellence Research Center for Gene and Cell Therapies in Cancer Treatment



IBA (Bucharest)

National R&D Institute for Food Bioresources

USAMV (Bucharest)

University of Agronomic Sciences and Veterinary Medicine of Bucharest



INMA (Bucharest)

National Institute of R&D for Machines and Installations Designed for Agriculture and Food Industry



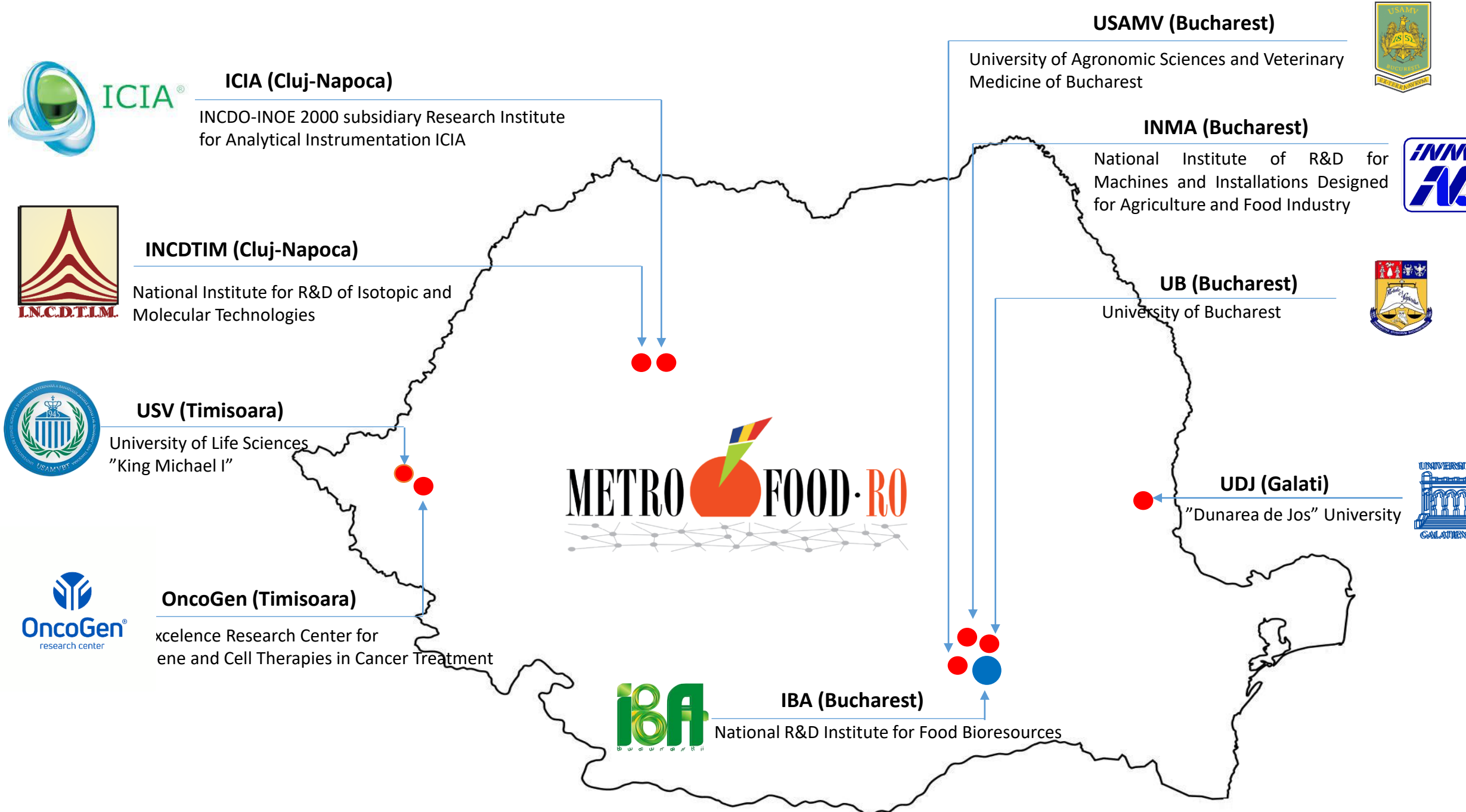
UB (Bucharest)

University of Bucharest

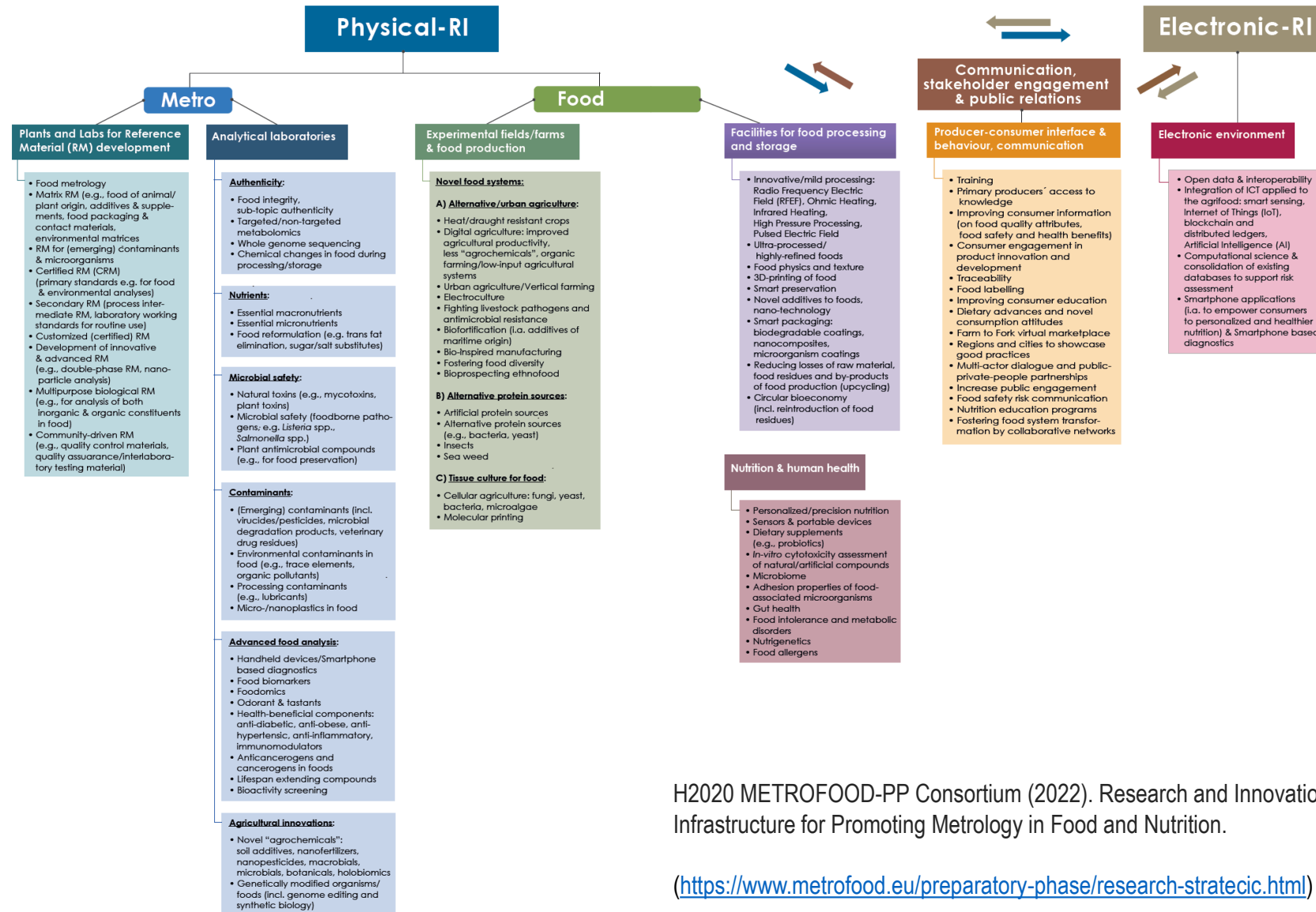


UDJ (Galati)

"Dunarea de Jos" University



METROFOOD-RI research topics



H2020 METROFOOD-PP Consortium (2022). Research and Innovation Agenda of METROFOOD-RI - Infrastructure for Promoting Metrology in Food and Nutrition.

<https://www.metrofood.eu/preparatory-phase/research-strategic.html>

METROFOOD-RI strategic research priorities

High priorities activities

“METRO” side

Food metrology

Food integrity &
authenticity

(Emerging)
contaminants

“FOOD” side

Circular bioeconomy

ELECTRONIC RI

Open data &
interoperability

Integration of ICT
applied to the agrifood
(i.e., IoT, AI)

Computational science

Producer/Consumer
Interface

Improving consumer
information by technology

Traceability/Transparency

METROFOOD-RI strategic research priorities

Medium priorities activities

“METRO” side

Micro and nano plastics

Food biomarkers

Foodomics

Nutrients / bioactives
in food

Natural toxins

“FOOD” side

Alternative protein
sources

Personalized/
precision nutrition

Food allergens

ELECTRONIC RI

Smartphone
applications

Producer/Consumer Interface

Improving consumer education

Fostering food system
transformation by networking

Training and education;
technology transfer

Food safety risk communication

Food labelling

Dietary advances and novel
consumption attitudes

METROFOOD-RO in the context of METROFOOD-RI research priorities

High priorities activities

“METRO” side

Food metrology
Food integrity & authenticity
(Emerging) contaminants



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METROFOOD-RO in the context of METROFOOD-RI research priorities

High priorities activities

“FOOD” side



Circular bioeconomy



METROFOOD-RO in the context of METROFOOD-RI research priorities

High priorities activities

ELECTRONIC RI

- Open data & interoperability
- Integration of ICT applied to the agrifood (i.e., IoT, AI)
- Computational science



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METROFOOD-RO in the context of METROFOOD-RI research priorities

High priorities activities

Producer/Consumer Interface

Improving consumer information by technology
Traceability/Transparency



METROFOOD-RO in the context of METROFOOD-RI research priorities

Medium priorities activities

“METRO” side

“FOOD” side

ELECTRONIC RI

Producer/Consumer Interface

- Micro and nano plastics
- Food biomarkers
- Foodomics
- Nutrients / bioactives in food
- Natural toxins

- Alternative protein sources
- Personalized/precision nutrition
- Food allergens

Smartphone applications

- Improving consumer education
- Fostering food system transformation by networking
- Training and education; technology transfer
- Food safety risk communication
- Food labelling
- Dietary advances and novel consumption attitudes

Benefits of implementation of METROFOOD-RO

Establishing a sustainable consortium to provide high quality research services for food chain actors. METROFOOD-RO will act under METROFOOD-RI umbrella, as an organized and sustainable structure capable of providing cutting-edge research services

Better consolidation of scientific knowledge, promoting cooperation and encouraging interaction between different stakeholders, as well as creating a common database of information and knowledge

Broad, multidisciplinary approach to projects/services at national and international programs

Implementation of common cooperation strategies in order to integrate resources and expertise for the benefit of society

Promoting the acceleration of scientific discoveries and innovation

Promoting the authenticity and safety of food production by accurate laboratory tests - intervention on consumer confidence

Collaboration



AgroServ is a **transdisciplinary project (2022-2027)** funded by the European Union under the **Horizon Europe** programme. It aims to **support the agroecology research community** through encouraging the **cross-fertilisation of knowledge** in a variety of fields: agricultural sciences, natural sciences, biological sciences, ecology, forestry, fisheries, agronomy, etc.

Collaboration



<https://www.project-provide.eu/>



Italian National Agency for New Technologies,
Energy and Sustainable Economic Development



Norwegian University of
Science and Technology



PROVIDE is funded by SUSFOOD2 – CORE ORGANIC (2020-2023). The aim is to promote circularity in the agrifood systems, fostering the sustainability of production and consumption and supporting the valorisation of otherwise wasted by-products, thus reducing food losses significantly. This will be based on “green” innovation processes, which will use also material from organic products and therefore the resulting new products can be marketed “organic”.



**Food
Safety
4EU**

<https://foodsafety4.eu/>

Collaboration

ENEA

Italian National Agency for New Technologies,
Energy and Sustainable Economic Development

TUM

iba
b u c u r a z i

Food Safety 4EU

SAVE THE DATE

**EU FOOD SAFETY
FORUM**

Supporting the Food Safety Systems
of the future

28-29.11.2023

Brussels

www.foodsafety4.eu
f i n i

 **PREMOTEC**

 **UNIVERSITY OF
CHEMISTRY AND TECHNOLOGY
PRAGUE**

FoodSafety4EU is a collaborative action to support the European Commission (EC) in shaping the Food Safety System of the future. During 3 years life (2021 – 2023), the project is delivering solutions to support the EC in its endeavour in aligning research, policy and innovation with the societal needs and perspectives and improving food safety across Europe.

Signed,

Call: HORIZON-INFRA-2023-DEV-01

(Developing, consolidating and optimising the European research infrastructures landscape, maintaining global leadership (2023))

Topic: HORIZON-INFRA-2023-DEV-01-05

Type of Action: HORIZON-CSA

Proposal number: 101131588

Proposal acronym: FHERITALE

Type of Model Grant Agreement: HORIZON Lump Sum Grant

Collaboration

ENEA

Italian National Agency for New Technologies,
Energy and Sustainable Economic Development

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b u c u r a r t i

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ERIC

 AnaEE
Analysis and Experimentation on Ecosystems

Collaboration



EU4FoodAdd - European Network for Food Additive Analysis



[IJZRSM - Institute of Public Health of Republic of North Macedonia](#)



European networks, initiatives, associations



European networks, initiatives, associations

IMEKO FOODS CONFERENCE



INTERNATIONAL MEASUREMENT CONFEDERATION

TC 23 "Metrology in Foods and Nutrition"

25-27 October 2023
Maisons-Alfort / Paris, France



7TH IMEKO FOODS

Worldwide food trade and consumption: quality and risk assessment



With the support of the EURAMET: EMN for Safe and Sustainable Food



INSTITUTUL NAȚIONAL DE CERCETARE DEZVOLTARE PENTRU BIORESURSE ALIMENTARE
IBA București



THANK YOU