

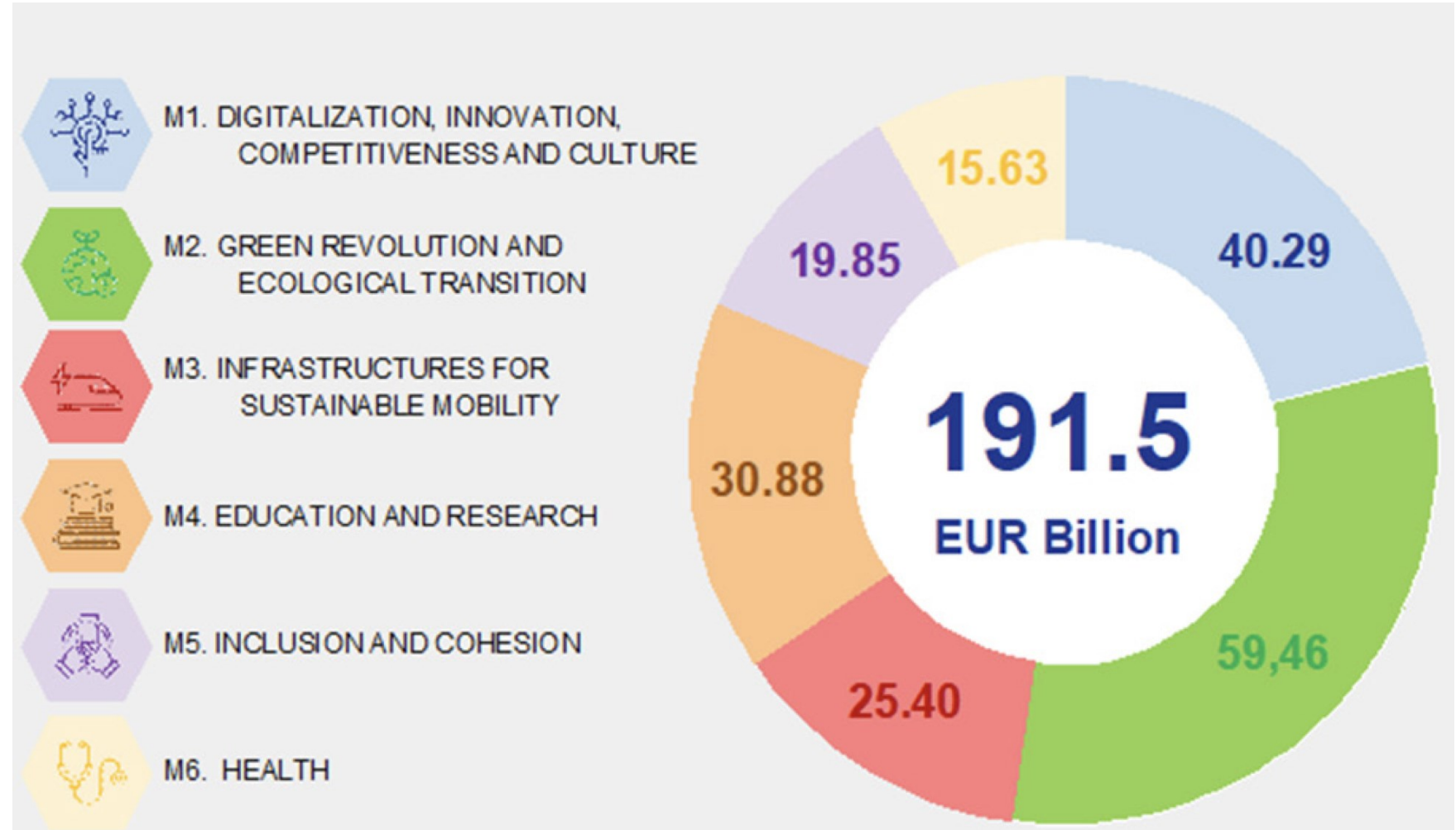


Research and Innovation For Sustainable Food and Nutrition

Daniele Del Rio
President of the OnFoods Foundation
Vice-Rector for Research and Tech Transfer
Professor of Human Nutrition
University of Parma

The National Recovery and Resilience Plan

NextGenerationEU funds to mitigate the COVID-19 socio-economic impact



MISSION 4 COMPONENT 2
«FROM RESEARCH TO ENTERPRISE»
OBJECTIVES

- Strengthen national research and favour the diffusion of new and innovative models for basic and applied research in a public-private synergistic way
- Sustain innovation and technology transfer processes
- Potentiate research infrastructures, competencies, and the human capital linked to research and innovation



Who we are

The Italian Partnership for the Sustainable Development of Food and Nutrition, coordinated by the OnFoods Foundation, presided by the University of Parma

Funding over 3 years

€114 million

Supporting innovative research and sustainability in food systems.

People involved

600+

A large multidisciplinary team driving the future of food.

For cascade funding

€20 million

Dedicated to open calls to support external projects.

Newly recruited junior researchers

139

+ 200 new PhD students and post-docs joining the effort.





Who we are

The Italian Partnership for the Sustainable Development of Food and Nutrition, coordinated by the OnFoods Foundation, presided by the University of Parma

Organisations

26

Including universities, research centers, and leading companies collaborating for impactful solutions.

Research projects

350+

Advancing knowledge and innovations in the food and nutrition sectors.

Work Packages

26

Comprehensive research areas to cover diverse aspects of food and nutrition.

Main Tasks

28

Carefully designed tasks ensuring cross-disciplinary collaboration and targeted outcomes.

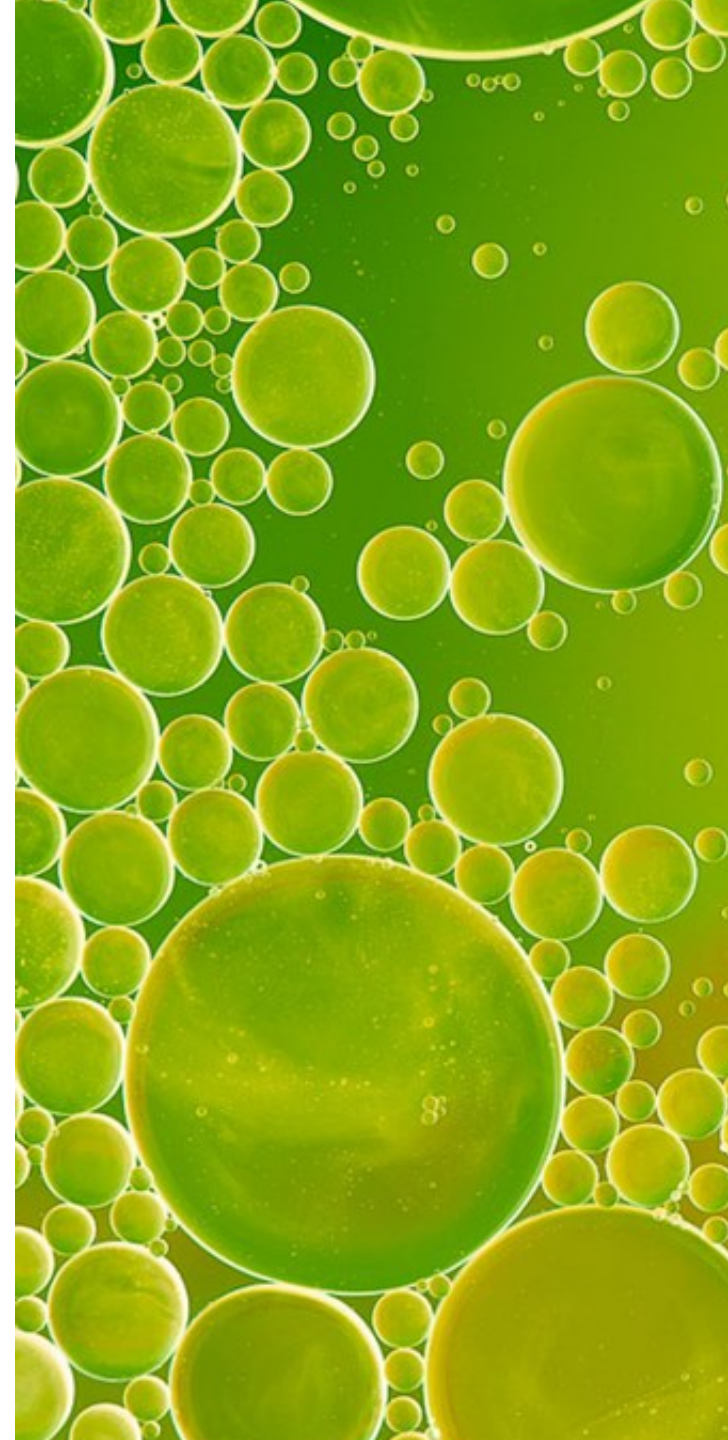


A systemic and interdisciplinary approach to food and nutrition sustainability

Combining food science, nutrition, sustainability, biotechnology, and circular

economy
Experts in life sciences, food chemistry, economics, engineering, medicine, social sciences, humanities, and more...

Working together to address complex challenges.





The OnFoods Spokes

A network of expertise

The spokes interconnect to address challenges from multiple perspectives and promote integrated solutions.

Thematic Spokes

07

Each spoke focuses on a critical area: food quality, sustainability, human nutrition, technological innovation, and environmental impact

Spoke 01

→

Global Sustainability

Fair food market for healthy citizens

Lead organisation
Università degli Studi di Parma

Spoke leader
Prof. Filippo Arfini

SPOKE 02

→

Smart and circular food system and distribution

To valorize food waste and smart and virtuous logistics

Lead organisation
CNR

Spoke leader
Antonio Moretti

Spoke 03

→

Food safety of traditional and novel foods

Promoting a safe food innovation

Lead organisation
Università degli studi di Bari

Spoke leader
Maria De Angelis

Spoke 04

→

Food quality and nutrition

To push towards sustainable and tailored food and nutrition

Lead organisation
Università di Milano

Spoke leader
Patrizia Riso

Spoke 05



Lifelong nutrition

A healthy diet for all

Lead organisation

Università degli studi di Napoli Federico II

Spoke leader

Annamaria Colao

Spoke 06



Tackling malnutrition

To restore resilience and defeat malnutrition

Lead organisation

Università degli studi di Pavia

Spoke leader

Hellas Cena

Spoke 07



Policy, behaviour and education

Smarter Behaviors for Healthier Diets

Lead organisation

Università degli studi di Bologna

Spoke leader

Matteo Vittuari



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Work Packages

WP 3.1

Assessment of new and re-emerging risks in the food system

WP leader

Università degli Studi di Bari Aldo Moro



WP 3.2

Strategies for risk mitigation in food production, processing, storage and retail

WP leader

Università degli Studi di Bari Aldo Moro



WP 3.3

Advanced methods for food safety

WP leader

Università degli studi di Parma



Spoke 03



Food safety of traditional and novel foods

Promoting a safe food innovation

Lead organisation

Università degli studi di Bari

Spoke leader

Maria De Angelis

SPOKE 3 Flagship research projects

RESEARCH PROJECT ALPRO_FOOD

Production of alternative source of proteins, through technological and biotechnological processes, to be used as innovative and safe food ingredients

Managed by
UniBo

DISCOVER MORE →

Referred to

SPOKE 03

RESEARCH PROJECT ECOLOGY

Xenobiotics and emerging contaminants in food of animal origin by advanced methods for food safety

Managed by
UniMi

Principal investigators
Luca Maria Chiesa

DISCOVER MORE →

Referred to

SPOKE 03

RESEARCH PROJECT DET_MINANOPLASTICS

Development and validation of innovative analytical methods for the reliable detection and determination of small micro/nanoplastics in food related samples

Managed by
UniPr

Principal investigators
Maria Careri, Claudia Zoani

DISCOVER MORE →

Referred to

SPOKE 03

RESEARCH PROJECT LAB_REDSPOIL

Use of autochthonous or ge lactic acid bacteria food cultures to reduce spoilage and increase the shelf life of traditional products

Managed by
UniCatt

Principal investigators
Daniela Bassi, Pier Sandro Cocconcelli, ,

DISCOVER MORE →

Referred to

SPOKE 03

TextE



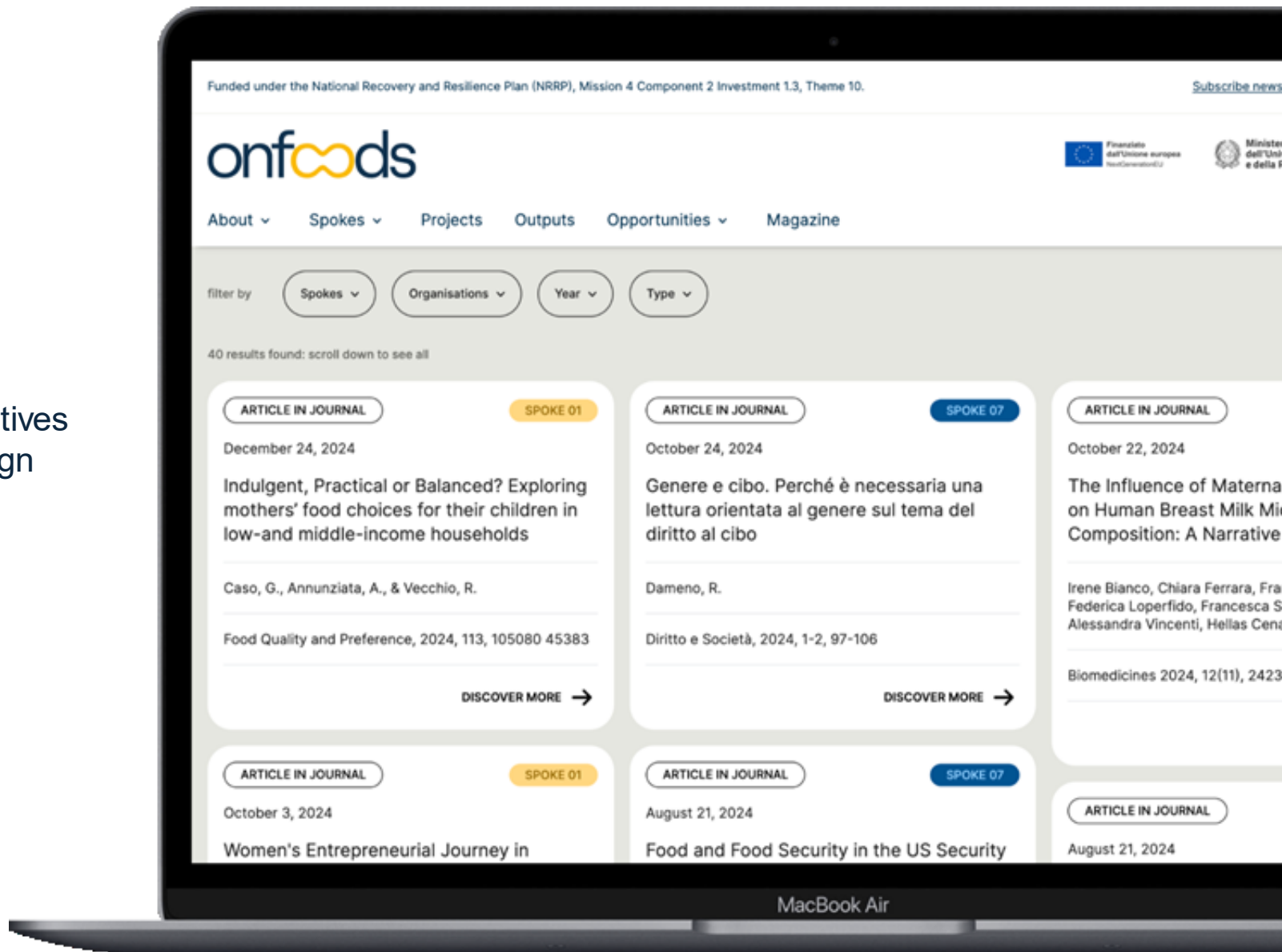
Tangible Impacts

- “Cascade funded” new projects
- New public-private collaborations
- Successful interactions with other NRPP initiatives
- Strong collaboration with the Ministry of Foreign Affairs in Journal
- Working papers
- Policy briefs
- Conference papers
- Book Chapters

Until now

+300

Open Access research outputs



More than 5 million in funding for Southern Italian firms for research into the food safety of traditional and novel foods.

Theme 01. Assessment of new and (re)emerging risks in innovative and traditional food production systems

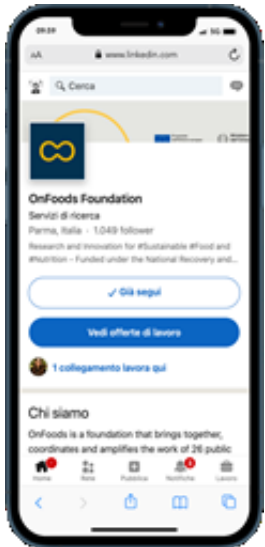
Theme 02. Development of strategies for risk mitigation in the production, processing, storage, and retail of food products

Theme 03. Development of advanced methods to assess the safety parameters of both traditional and innovative foods.



Outreach and Impacts

www.onfoods.it





Acknowledgements

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Concession Decree No. 1550 of 11 October 2022 adopted by the Italian Ministry of University and Research, Project title “ON Foods - Research and innovation network on food and nutrition Sustainability, Safety and Security – Working ON Foods”.



Thank you!

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