

INTERNATIONAL ALLIANCE FOR PHYTOBIOMES RESEARCH

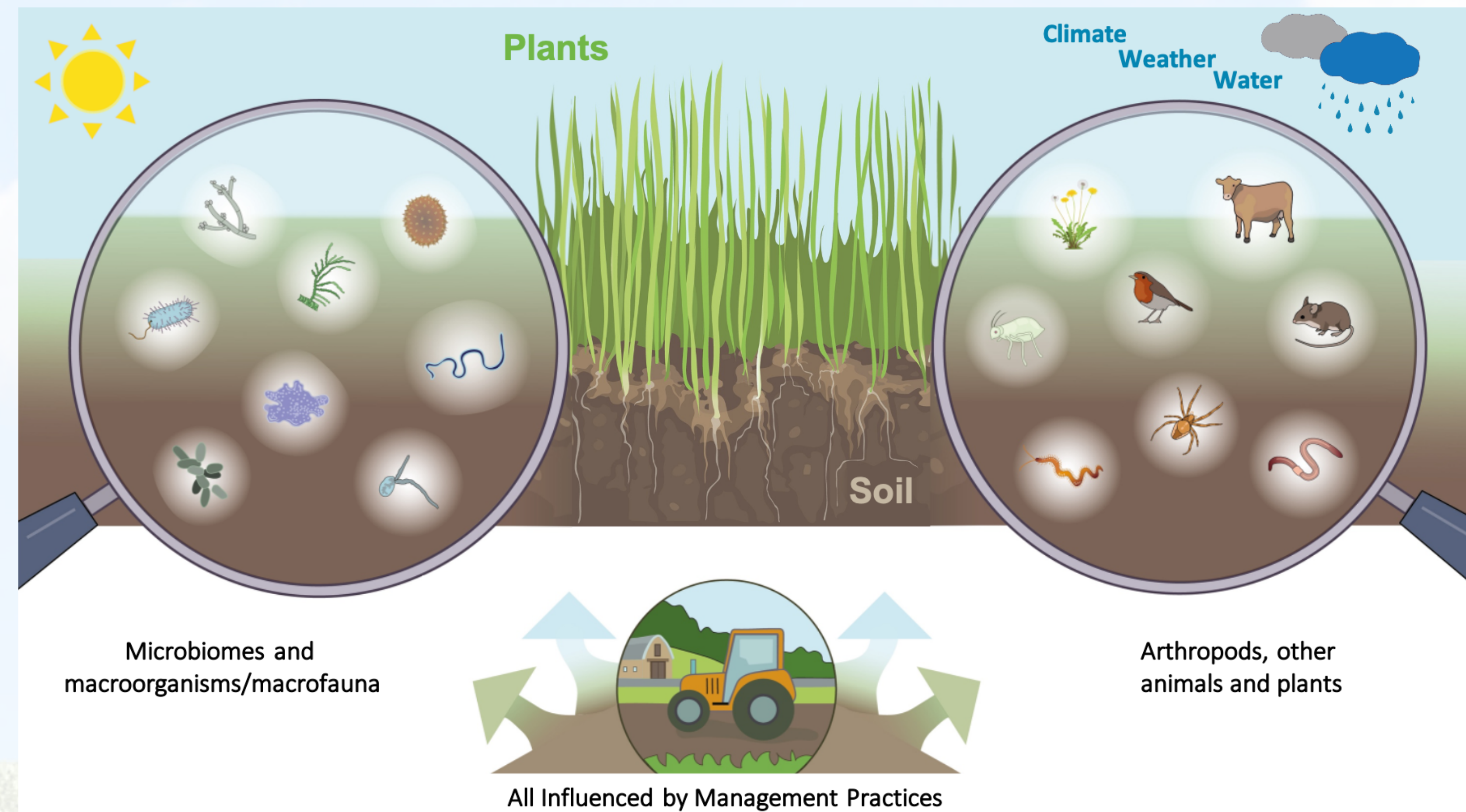


THE PHYTOBIOMES ALLIANCE

The mission of the International Alliance for Phytobiomes Research is to establish a science and technology foundation for site-specific, phytobiome-based enhancement of sustainable food, feed, and fiber production.

PHYTOBIOMES: COMPLEX SYSTEMS OF PLANT-BASED AGRICULTURE

Phytobiomes consist of all organisms living in, on, or around plants (e.g., microbes, animals, other plants), and the environment (i.e., soil, air, water, and climate).

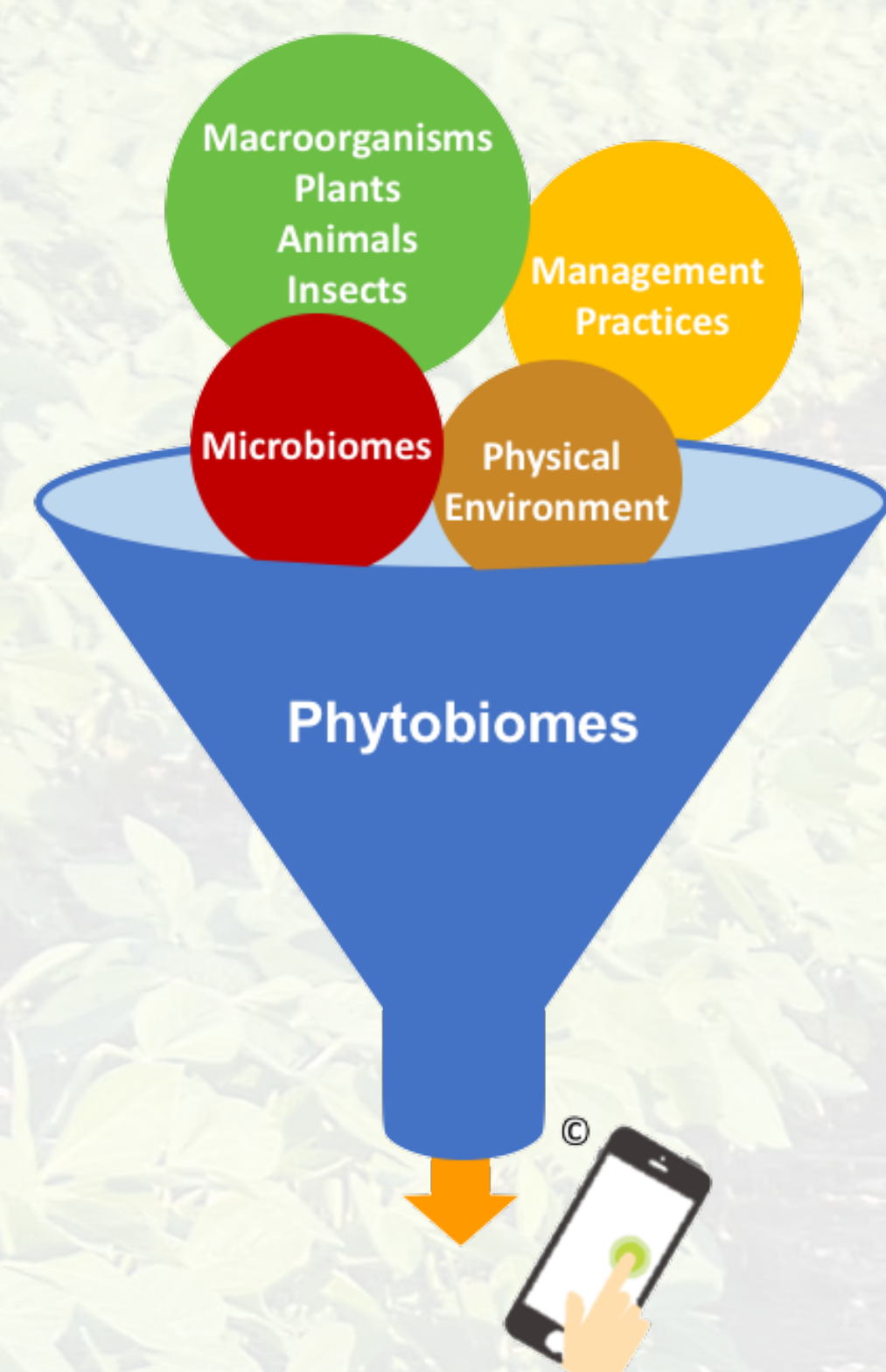


FUNDED COORDINATED PROJECTS

- » **Microbes4Climate** – Microbial services addressing climate change risks for biodiversity and for agricultural and forestry ecosystems: enabling curiosity-driven research and advancing frontier knowledge
Funded by Horizon Europe Framework Programme (HORIZON) – Coordinator: MIRRI, PT
- » **MICROBE** – MICRObiome Biobanking Enabler
Funded by Horizon Europe Framework Programme (HORIZON) – Coordinator: Tanja Kostic, AIT Austrian Institute of Technology, AT
- » **Novel microbiome technologies to increase profitability for Australian horticulture**
Funded by Hort Innovation, Australia – Coordinator: Kirsty Bayliss, Murdoch University, AU
- » **USCCN** – United States Culture Collection Network
Funded by the National Science Foundation (NSF), USA – Coordinator: Dusti Gallagher, Phytobiomes Alliance
- » **Root2Res** – Root phenotyping and genetic improvement for rotational crops resilient to environmental change
Funded by Horizon Europe Framework Programme (HORIZON) – Coordinator: ARVALIS, FR and The James Hutton Institute, UK
- » **The UK Crop Microbiome Cryobank**
Funded by the Biotechnology and Biotechnology Sciences Research Council (BBSRC) – UK Research Innovation – Coordinator: Matthew Ryan, CABI, UK
- » **SUCSEED** – Stop the use of pesticides on seeds
Funded by the Agence National de la Recherche (ANR), France – Coordinator: Matthieu Barret, INRAE, FR
- » **Improved Identification and Detection of Select Agent *Ralstonia solanacearum* Strains Threatening the US Potato Industry**
Funded by the USDA Animal Plant Health Inspection Service (APHIS), USA – Coordinator: Kellye Eversole, Phytobiomes Alliance

STRATEGIES AND PRIORITIES OF THE PHYTOBIOMES ALLIANCE

VISION



Phytobiome-enabled next-generation precision agriculture

STRATEGIES

- » **Identify research, resource and technology gaps and develop roadmaps to fill them**
- » **Coordinate and manage projects to address gaps**
- » **Facilitate international and public-private collaborations**
- » **Focus on pre-competitive science**
- » **Develop an interdisciplinary community of researchers committed to advancing phytobiomes science**
- » **Empower industry growth and profitability**

CURRENT EFFORTS

Linking Components Across Phytobiomes Systems

Increased engagement in Europe: Microbes 4 Climate and MICRObiome Biobanking Enabler

Phytopathology article: *From Microbes to Microbiomes: Applications for Plant Health and Sustainable Agriculture*

Phytopathology article: *Genotypic & Phenotypic Analyses Show *Ralstonia solanacearum* Cool Virulence is a Quantitative Trait Not Restricted to "Race 3 Biovar 2"*

Secured US NSF grant to Coordinate Microbial Collections and Networks: Public & Private

Novel Microbiome Technologies to Increase Profitability for Australian Horticulture

Establish Linkages and Commonalities between Plant and Animal Health & Nutrition

Draft regulatory science roadmap for microbials

ORGANIZATIONAL STRUCTURE



PHYTOBIOMES ALLIANCE SPONSORS



For more information about becoming a sponsor or ways to be involved contact
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or Lori Leach, leach@eversoleassociates.com

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