



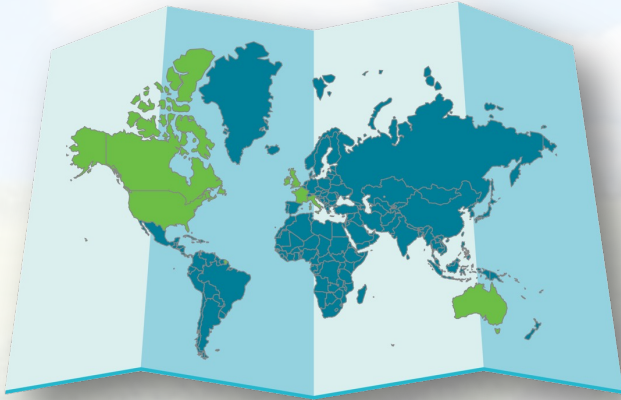
Phytobiomes: A New Vision for Agriculture

Name

Date

Conference & City Country

International Alliance for Phytobiomes Research



- Nonprofit, precompetitive research consortium
- Industry, academia, and government
- Paradigm shift in agricultural research & production

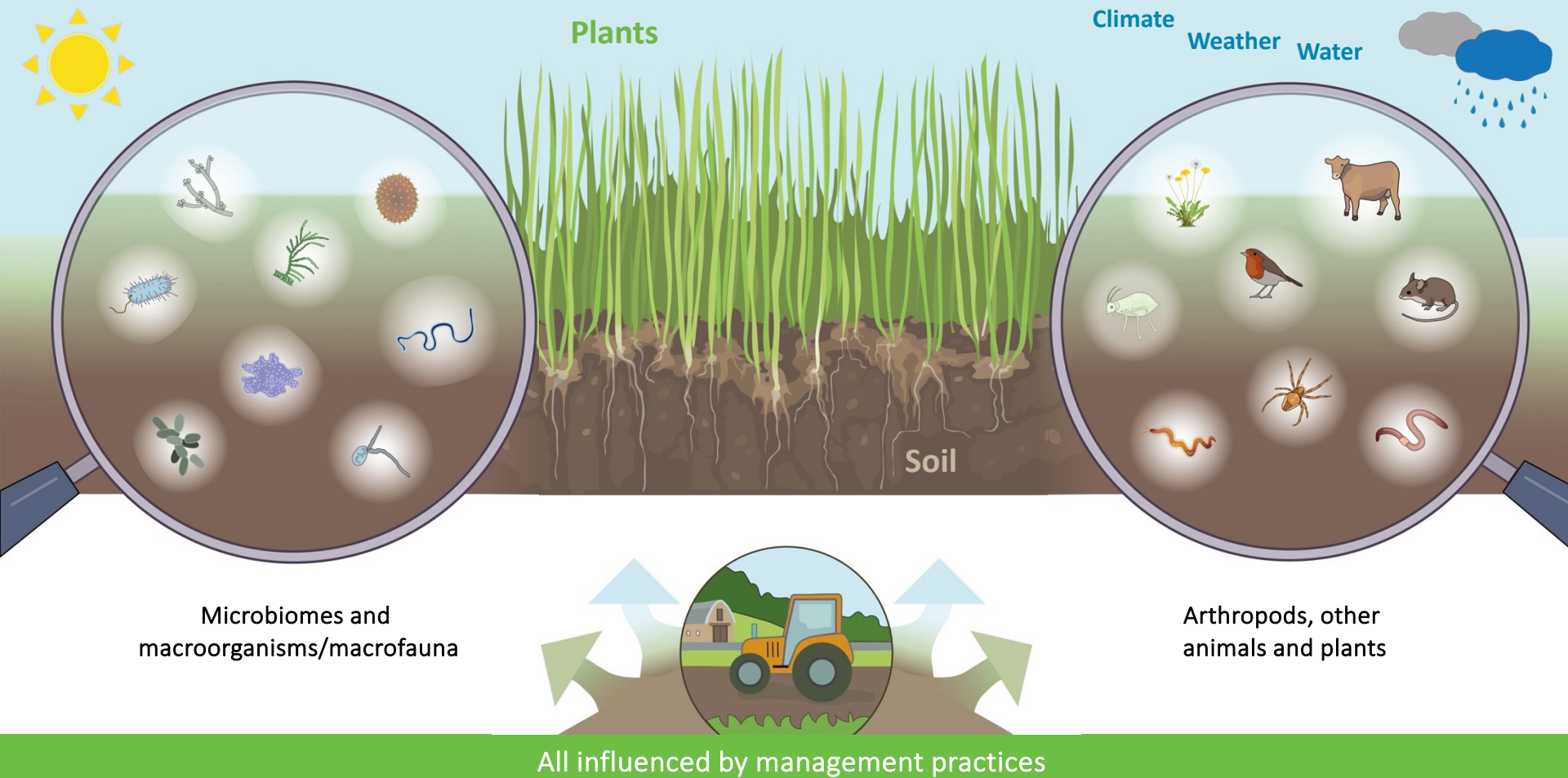


Vision: By 2050, all farmers have the ability to use predictive and prescriptive analytics based on geophysical and biological conditions for determining the best combination of plants, management practices, and inputs for a specific site in any given year.



Strategy: Identify gaps in research, tools, and technologies and develop projects to address them.

Phytophosphorus: Complex Systems of Plant-based Agriculture



Examples of Phytobiomes

Crop Field



Pasture



Vegetable Garden



Forest



Vertical Farm



Holy Grail for Phytobiomics



To understand, predict, and control emergent phenotypes within specific phytobiomes for the sustainable production of food, feed, and fiber.

Phytobiomes Alliance Vision

By 2050, all farmers have the ability to use predictive and prescriptive analytics based on geophysical and biological conditions for determining the best combination of plants, management practices, and inputs for a specific site in a given year.

Research Priorities



Phytobiomes-knowledge generation



Standards and protocols & capacity building for application



Regulatory framework



Data generation, management & modeling



Multi-disciplinary capacity building



Precision, digital and AI Ag integration

Efforts: Linking Components Across Phytobiomes System



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

Phytobiomes Alliance Working Groups

Identify gaps and research needs; coordinate efforts on specific topics



Microbiomes



Regulatory



Animal Microbiomes



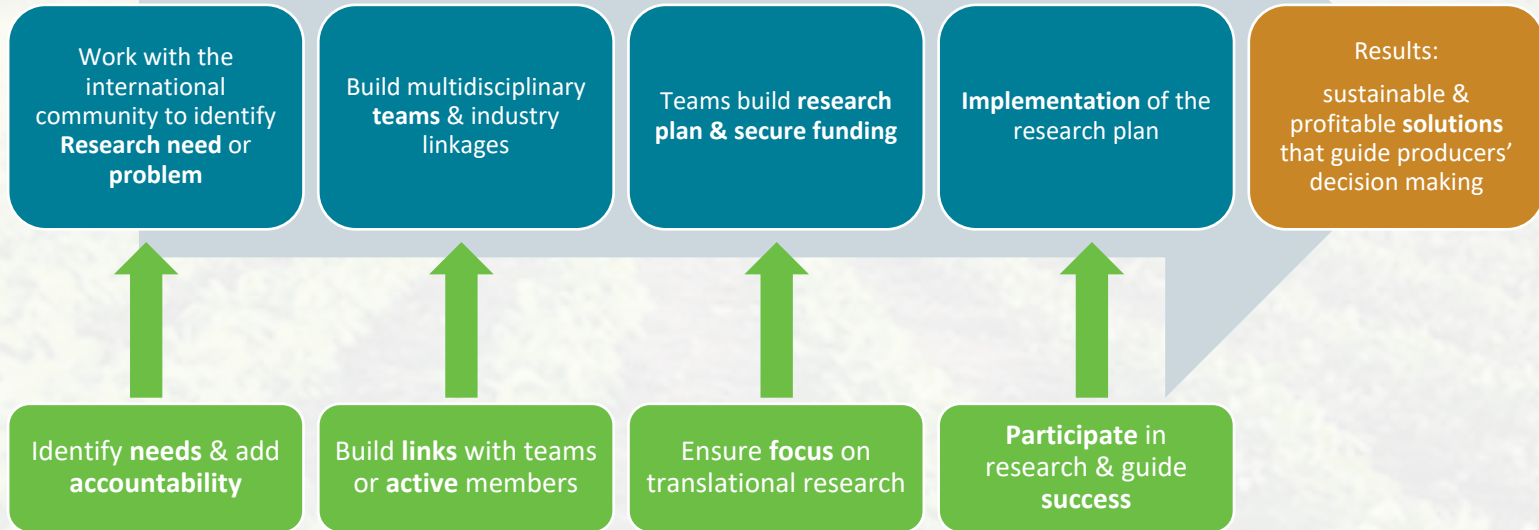
Controlled Environment Agriculture



Soil Health

The Alliance in Action

Translating Research Outcomes into Results



Industry Sponsor Participation



Phytobiomes Alliance Sponsors



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