11th Circular Biobased Products Symposium

Sustainable growth: circular and biobased solutions

6 June 2024, Gerda Feunekes

WAGENINGEN
UNIVERSITY & RESEARCH

Wageningen University & Research

To explore the potential of nature to improve the quality of life

WAGENINGEN
UNIVERSITY & RESEARCH

Global leader in agrifood research

1

University in the Netherlands

Keuzegids 2023

59

University in the world

Times Higher Education World University Rankings 2023

1

Agriculture University

National Taiwan Ranking 2022

1

Agricultural Sciences

Academic Ranking of World Universities 2022

1

Agriculture & Forestry

QS World University Rankings 2023

2

Environmental Sciences

QS World University Rankings 2023

6.742
Employees (fte)

13.108
Students (excl. PhD)

320
PhD theses

5.770
Co-publications

Year 2022

WAGENINGEN
UNIVERSITY & RESEARCH

Rooted in the Netherlands, active on all continents

Number of WUR projects worldwide, 2022

Founded in **1918** in Wageningen

Situated in **Food Valley** - the Dutch agro-tech version of Silicon Valley

Key to the **Netherlands'** agricultural success

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Wageningen campus: an innovation hotspot

Wageningen ecosystem

200+

research institutes, R&D of (international) companies, NGO's, start-ups and SME's

societal dialogue

open innovation

shared facilities

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Wageningen campus: 200+ organisations

7
institutes

25
NGOs

23
corporates

158
SMEs
(incl. startups)

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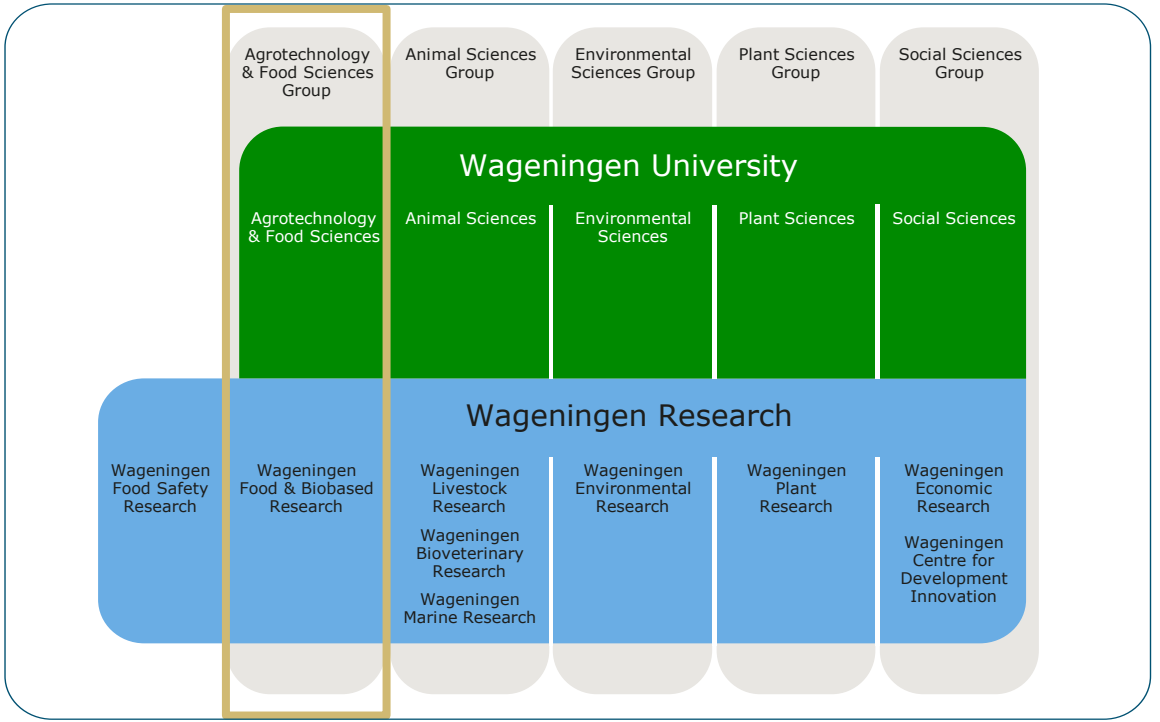
The Wageningen approach

Cooperation between university and market-oriented research institutes

Combining efforts in Agrotechnology & Food, Animal, Environmental, Plant and Social sciences



WAGENINGEN
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The Wageningen approach

Unique union of expertise leading to scientific breakthroughs that can quickly be put into practical solutions and incorporated into education

Wageningen University

3.415 employees (fte)
fundamental and strategic research
94 chair groups

Wageningen Research

± 3.327 employees (fte)
applied and pre-competitive research
9 independent research institutes

Year 2022

WAGENINGEN
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Finding answers together

Main global challenges

- Climate change
- Overpopulation urban centres
- Malnutrition
- Overconsumption nature & natural resources

Needed transitions

Circular agri-food systems

Eating proteins from more diverse sources

A circular biobased economy

Technological disruptions & digital connectivity

Impact on global challenges

Internal transitions & Collaboration

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Wageningen Food & Biobased Research

We contribute to a sustainable, healthy and resilient society, with circular principles for healthy food and renewable materials.

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Society oriented research programmes

Nature Based Materials

Renewable Plastics

Safe and Circular Biobased Products

Circular Water Technologies

Food Loss and Waste Prevention

Postharvest Quality

Vision + Robotics

Proteins for Life

Sustainable Nutritious Foods

Nutrition for Optimal Health

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Nature Based Materials

Developing new materials in sustainable circular value chains by using the nature's functional properties. Always based on a total crop use approach.

Circular Biobased Building Materials

Strategies for Circular and Biobased Value Chains

Biomass Characterisation and Valorisation

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Renewable Plastics

Replacing fossil-based plastics by renewable, non-accumulating alternatives

Strategy and Policy Development for Renewable Plastics

New Polymers for Renewable Thermoplastics

Non Accumulating Plastics

Renewable Plastics Processing and Testing

Renewable Plastics

Contribute to a fossil free society by supporting the phasing out of fossil-based plastics through development of biobased alternatives.

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Safe and Circular Biobased Products

Developing biobased alternatives and looping strategies, processes, materials and additives for circularity

Safe and Sustainable Substitutes for Substances of Very High Concern

Biodegradable Alternatives to Products that End up in Sewage Water

Safe and Circular (Food) Packaging Materials

Circular Design of Coatings and Composites

Safe and Circular Biobased Products

Contributing to the transition to a circular and fossil free society and biodiversity by alleviating pressure on virgin feedstock and preventing pollution through accumulation of microplastics, toxic components and non-biodegradable substances in the environment.

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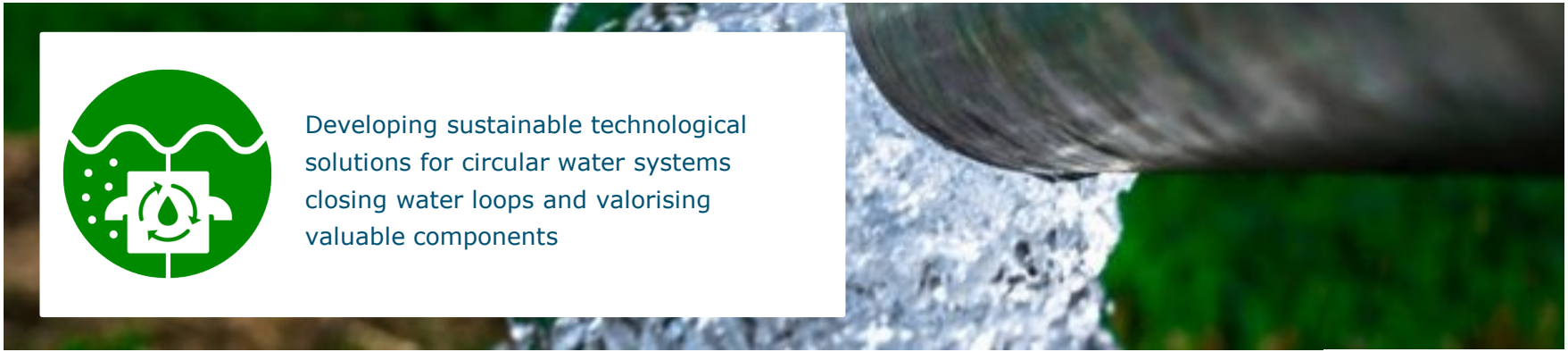
www.wur.eu/safe-and-circular-biobased-products

Circular Water Technologies



Developing sustainable technological solutions for circular water systems closing water loops and valorising valuable components

Water Treatment for Circularity

Water Technology for Energy Transition

Biobased Products for Water Treatment

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Sustainable growth:
circular and biobased solutions

- **Challenges** for the industry

- Biobased solutions offer new **opportunities**

Thank you!

Enjoy our Symposium and I hope you will find inspiration for new developments.