



Food & Bio Cluster
Denmark

Pathways to Net-Zero

Futureproofing Sustainable Agri-Food Systems Towards 2050

Webinar about Food & Bio Cluster Denmark's mission partnership call: Pathways to Net-Zero

May 13th, 2026



Medfinansieret af
Den Europæiske Union

Virksomhedsudvikling
Danmark

innovationsfonden

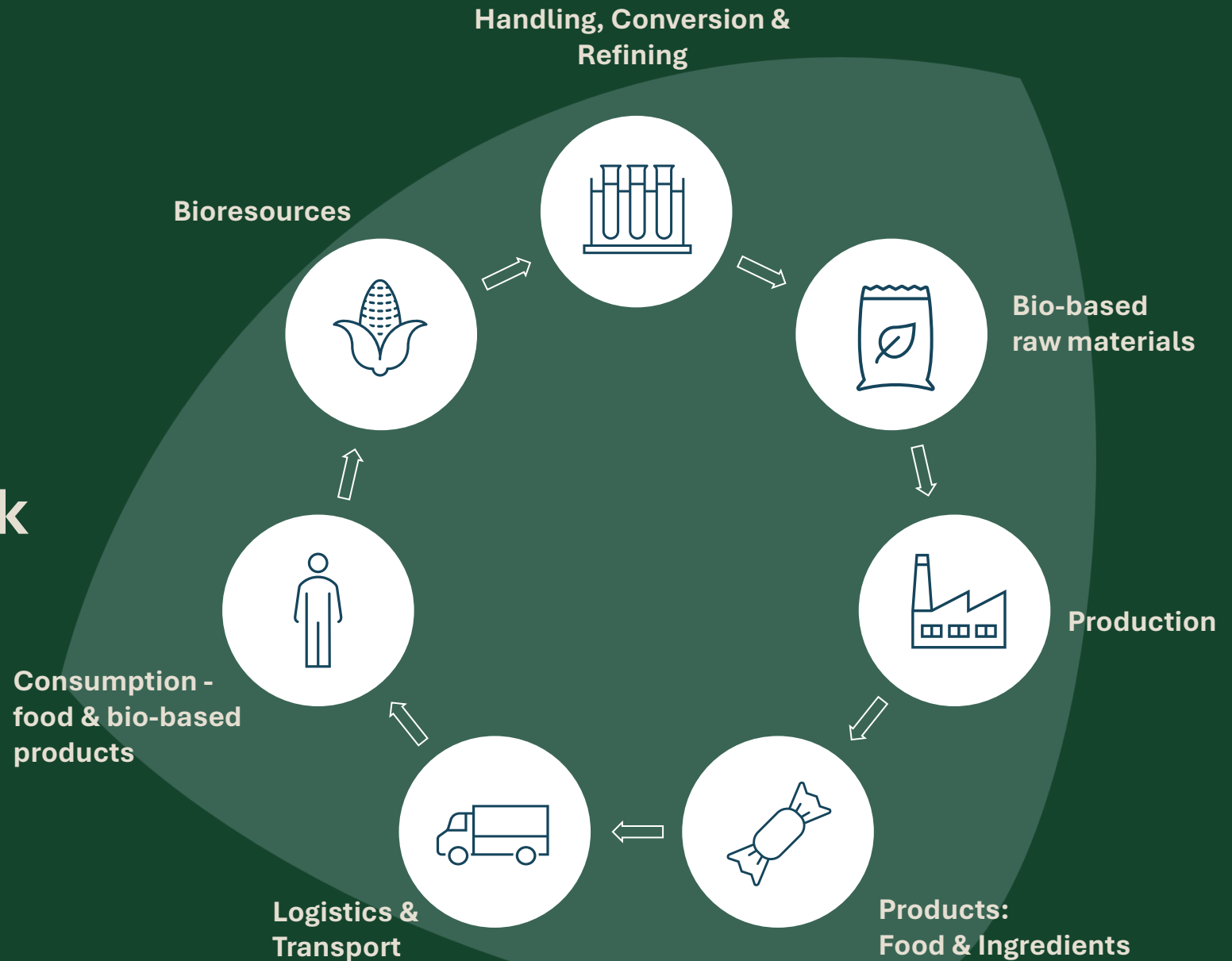
Agenda

1. Introduction to Food & Bio Cluster Denmark's mission
2. Introduction to call
3. Q&A

01

Introduction to Food & Bio Cluster Denmark's mission

Food & Bio Cluster
Denmark's activities
cover **the entire value
chain** from farm to fork
- and even beyond



About the mission

Food & Bio Cluster wants to position Denmark as the **leader for innovative, disruptive solutions** that enable the green transition of the agri-food system.

By 2030 we strive to achieve a 70% reduction in greenhouse gas emissions in Denmark and **net-zero emissions by 2050**.

Our ambition is to be the **leading platform for initiating new partnerships and cross-cutting collaborations** with actors from the entire value chain.

The mission unites universities, SMEs, large national and international companies, civil society actors and government in a **common vision** for the Danish agricultural and food production.

A mission-driven organization transforming the Danish agriculture and food system.

Mission-based innovation

Addresses complex, societal challenges

Aligns all efforts towards a specific, long-term goal

Aims to create sustainable solutions with a lasting impact

Involves cross-sector collaboration and partnerships

Encourages experimentation, creativity, and risk-taking

Defines clear & measurable goals to track progress

Learning from failures and adapting new strategies accordingly

May involve advocating for regulatory and policy changes



Food & Bio Cluster
Denmark

**TOWARDS A CLIMATE-NEUTRAL,
SUSTAINABLE AND COMPETITIVE
DANISH AGRI-FOOD SECTOR**

2030-2050

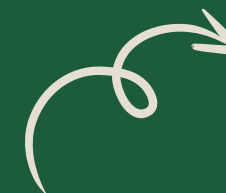
ROADMAP

How do we achieve a climate-neutral agri-food system in Denmark by 2050?

This national roadmap brings together knowledge, ambitions, and concrete action areas across the entire value chain – from primary production to consumption.



**New roadmap sets direction for
the future of the agri-food system**



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02

Introduction to call

CALL FOR NEW INNOVATION PROJECTS

FUTUREPROFING SUSTAINABLE AGRI-FOOD SYSTEMS TOWARDS 2050

APPLY BY SEPTEMBER 30, 2026

THEME 1

Building technical capacity towards impact

THEME 2

Addressing barriers to impact

THEME 3

Plant breeding initiatives

THEME 4

Biogenic carbon and alternative proteins



Read more and apply here



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88 MILLION REASONS TO APPLY

FUTUREPROFING SUSTAINABLE AGRI-FOOD SYSTEMS TOWARDS 2050

Food & Bio Cluster Denmark invites proposals that:

- ✓ Demonstrate clear potential for GHG reductions and environmental benefits – describing how the project's GHG reduction potential contributes to 70% reduction in 2030 and/or net-zero emissions in 2050.
- ✓ Foster collaboration across the value chain, integrating business, research, and society.
- ✓ Contribute to building Denmark's competitiveness in sustainable food and agriculture.
- ✓ Align with Food & Bio Cluster Denmark's roadmap, North Star, one or more Inflection Points, and the project scope must fall within at least one of the four themes.

Apply by September 30 at 12.00 noon.



- ✓ **BUDGET:**
Total budget: ~88 MDKK.
Minimum budget pr. project: 3 MDKK (not including co-financing).
Total funding rate pr. project: 75%.
- ✓ **DURATION:**
Project duration: 1-4 years.
Project end date: no later than June 2031.
- ✓ **LEAD APPLICANT:**
Lead applicant must hold a Danish CVR no. (company registration no.), but international project partners are welcome.
- ✓ **PROJECT CONSORTIA:**
Broad project consortia are a requirement, i.e. more than one partner.

Read more and
apply here

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**Food & Bio
Cluster Denmark**

Impact Framework

Food & Bio Cluster's Impact Framework



North Star

Net-zero greenhouse gas emissions in the Danish agricultural and food sector by 2050

... while potentially strengthening ...

Environment

Nature

Competitive agricultural and food sector

... without harming and with due consideration of ...

Animal welfare

Public health

Food security



Inflection points

1

Methane-reducing technologies for Danish livestock production are scalable and cost-effective given regulation by 2030

2

Plant-rich diets with low-climate impact and high-quality nutrition is the first-choice for consumers by 2050

3

Nutrient-rich crop production per hectare of agricultural land reaches its highest sustainable yield, while greenhouse gas emissions are significantly reduced, and nitrogen leaching and other environmental contaminants are minimised or completely eliminated by 2045.

A fourth strategic area* with high impact potential:

4

Advancing biogenic carbon utilisation and alternative proteins.

**When developing the Impact Framework, it was decided not to include the fourth strategic area, as an Inflection Point at this point in time.*

THEME 1

Building technical capacity towards impact

- ✓ Large-scale trials of methane-reducing technologies and best practices to protect animal welfare and ensure economic viability for the farmers (e.g., feed additives, manure management).
- ✓ Food system innovation, market integration and consumer behavioural intervention pilots for a shift towards plant-rich dietary patterns.
- ✓ Field validation of climate-resilient, nutritious, and high-yield crop varieties requiring fewer chemical inputs.
- ✓ Integration of circular economy models and alternative protein production.

Total budget for Theme 1:
30,000,000 DKK

Investment per project: **minimum 3 MDKK, no maximum (not including co-financing)**

TRL 5–6 at project start
TRL 8–9 at project end.

SRL starting at 4 and advancing throughout the project period.

THEME 2

Addressing barriers to impact

- ✓ Digitalisation and technology integration for precision agriculture, carbon tracking, and supply chain transparency.
- ✓ Capacity-building for circular business models and blended finance solutions.
- ✓ Market access pilots, training, and multi-stakeholder engagement to overcome adoption lock-ins.

Total budget for Theme 2:
19,747,897 DKK

Investment per project: **minimum 3 MDKK, no maximum (not including co-financing)**

TRL 7-9 at project start

SRL 4 at project start
SRL 7-9 at project end

THEME 3

Plant breeding

- ✓ Enhancing breeding for protein crops to improve taste, texture, nutrition, resistance to pests and drought, ensuring resilience under changing climate conditions
- ✓ Developing crop varieties with improved nutrient-use efficiency, minimizing reliance on synthetic fertilizers to reduce N₂O emissions and protect the groundwater and other aquatic areas.
- ✓ Advancement of perennial crops for feed, food, and bioenergy.
- ✓ Application of new genomic techniques (e.g., mutation breeding, irradiation, CRISPR-Cas) with appropriate regulatory engagement.

Total budget for Theme 3:
26,328,482 DKK

Investment per project: **minimum 3 MDKK, no maximum (not including co-financing)**

**TRL 2-3 at project start
TRL 5-7 at project end.**

SRL starting at 2 and advancing throughout the project period

THEME 4

Biogenic carbon and alternative proteins

- ✓ Develop and advance biorefining technologies for efficient industry adoption in food, feed, and bioenergy production.
- ✓ Optimise agricultural by-product conversion technologies, to minimise waste and decrease dependence on imported biomass.
- ✓ Enhance the use of side streams from food production, converting them into food ingredients while identifying pathways to scaling and implementation.
- ✓ Development and/or advancement of alternative proteins such as microalgae and plant-based proteins, to support sustainable food and feed systems.

Total budget for Theme 4:
12,000,000 DKK

Investment per project: **minimum 3 MDKK, no maximum (not including co-financing)**

TRL 2-3 at project start
TRL 5-7 at project end.

SRL starting at 2 and advancing throughout the project period

ABOUT THE CALL

WHAT ARE THE CRITERIA?

- ✓ Project proposals must be aligned with
 - the Food & Bio Cluster Denmark roadmap.
 - the North Star and one or more Inflection Points described in the Impact Framework.
 - one or more Milestones described under each theme in the call text.
- ✓ Demonstrate a potential for substantial impact by 2030 and/or 2050 and provide details on their link to the roadmap in the application.
- ✓ Integrate social science and humanities (SSH) to strengthen impact where applicable.

ABOUT THE CALL

WHO CAN APPLY

- ✓ Companies, research institutions, public institutions, and civil society organizations in or outside Denmark and directly involved in the project activities.
- ✓ The lead applicant must hold a Danish CVR number (company registration no. with the Danish authorities).
- ✓ Relevant collaborations across enterprises, research institutions and public institutions must also be striven for.
- ✓ A project should consist of partners that are active participants in both the design of project, the realization of the project and the active implementation of the results from the project.

ABOUT THE CALL

EVALUATION CRITERIA

1. **Strategic fit to the Food & Bio Cluster Denmark roadmap and mission**
2. **Quality of the idea**
3. **Impact**
4. **Quality of execution**

Criteria 1 is evaluated by 1 national expert, while criteria 2-4 will be evaluated by 2-5 international experts.

The experts will vary depending on the project proposal.

An impartial evaluator will assess all four criteria across all applications.

Applicants will be invited to respond to the evaluation of criteria 1-4.

ABOUT THE CALL

IMPORTANT DATES

Call opens: **29 April 2026.**

Application deadline: **30 September 2026, 12:00 noon CET.**

Expected response: **January 2027.**

Earliest project start: **March 2027.**

CONTACT INFO:

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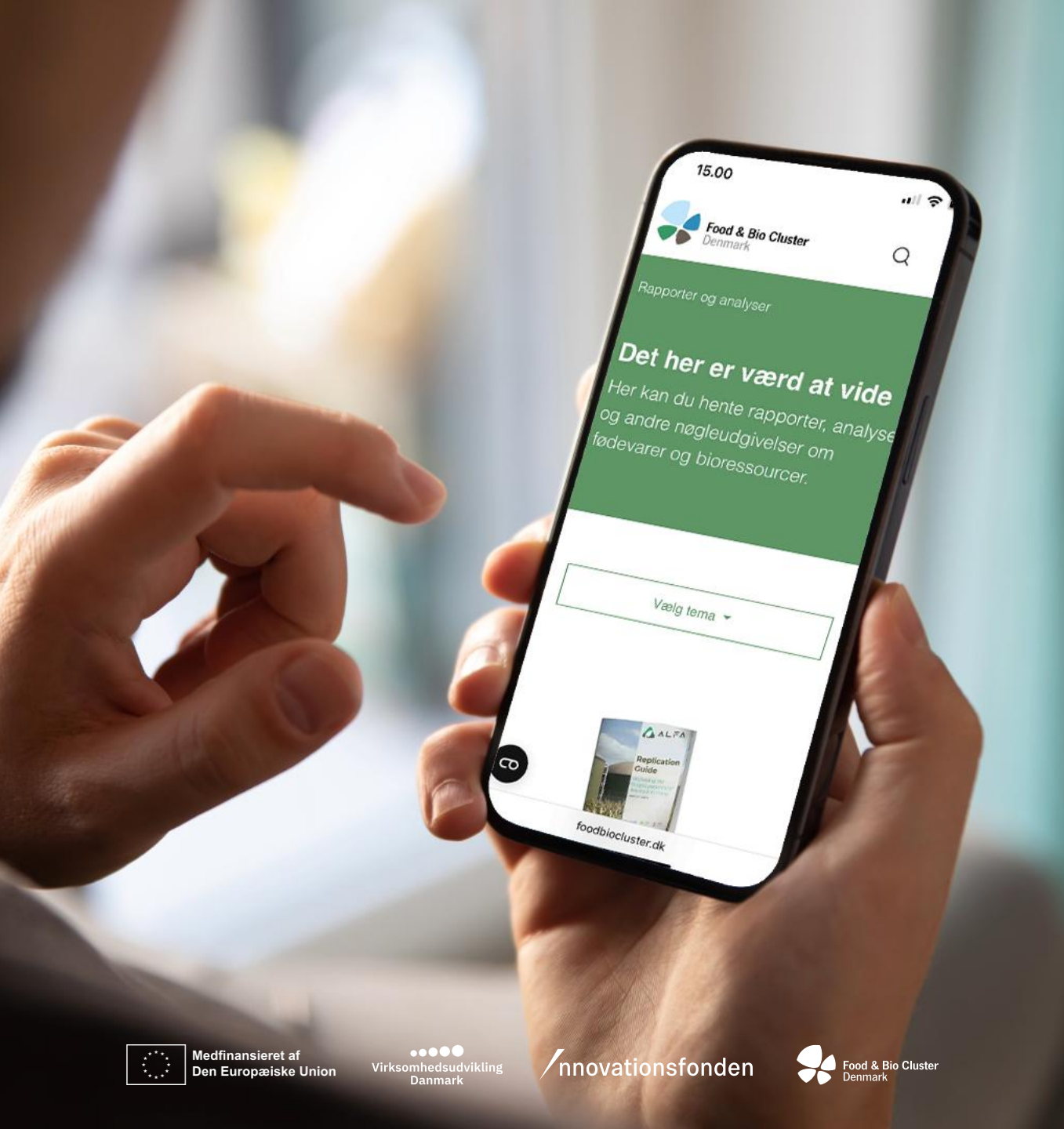
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company/food-bio-cluster-denmark

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Q&A