



iCLIMATE INTERDISCIPLINARY CENTRE FOR CLIMATE CHANGE

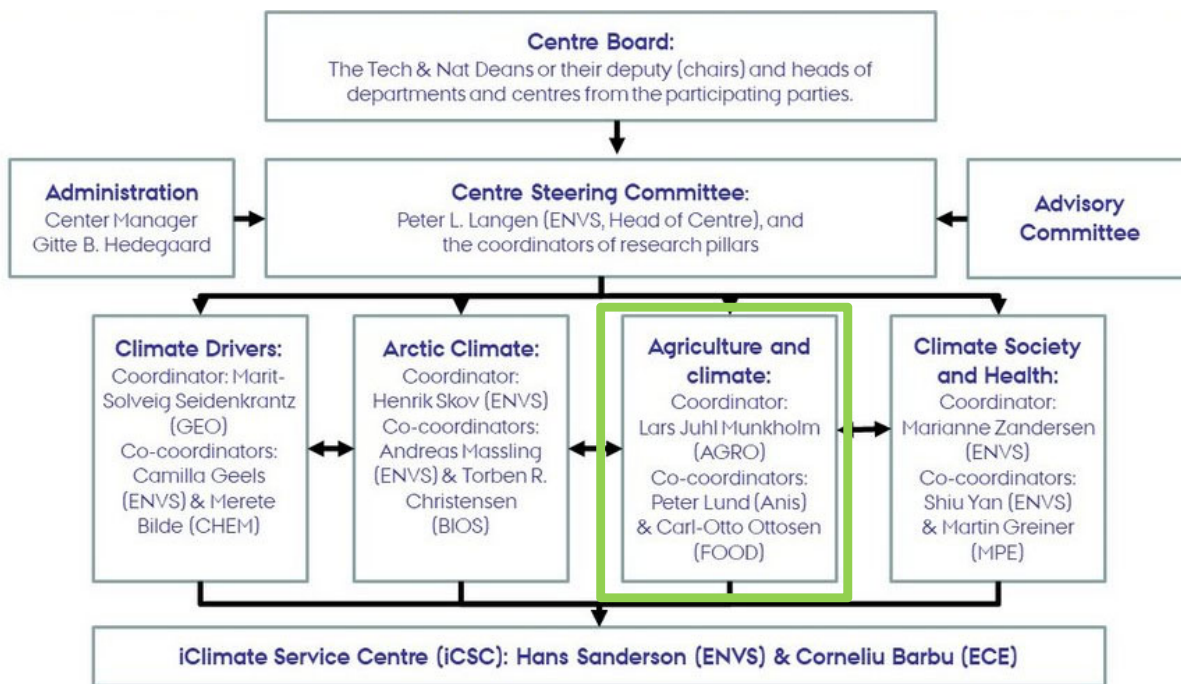
DIEGO ABALOS

Mission

The mission of iClimate is to develop an interdisciplinary research environment that improves our understanding of the climate system, climate change, and human-climate interactions, and to use that knowledge to provide services and solutions to the private and public sector.

Excellence in research is the cornerstone of iClimate and it is our ambition to **provide solutions** to the climate change-related grand challenges based on **integration of natural, social and engineering sciences**, while **educating the next generation** of climate scientists and professionals.





AIM – AGRICULTURE & CLIMATE

To understand the **two-way interaction** between agriculture and climate change: How does climate change affect agricultural production and vice versa?

Focus on both climate **mitigation** and **adaptation**

- 72 members
 - Agroecology (31), Animal Science (12), Environmental Science (12), Biological and Chemical Engineering (6), Food (5), Others (6)

Economy

INCOME

- **Basic funding** of ~400,000 EUR per year from faculty (2018-2022)
- **10% OH scheme**
 - 2019 2700 EUR
 - 2020 30,500 EUR
 - 2021 98,500 EUR
 - 2022 (currently) 200,000 EUR
 - 2023 (currently) 270,000 EUR

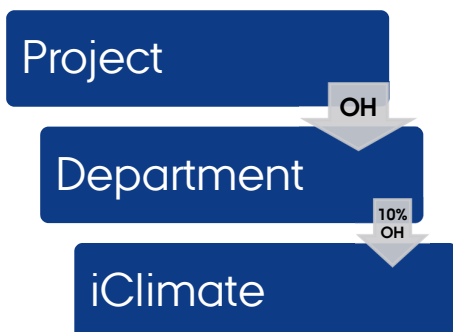
EXPENSES

Basic funding

- 3 Tenure tracks and 1 professor
- 10 phd's (1/3 funding)
- Centre manager (1/3 position)
- Pillar lump sums
- Annual meetings

10% OH scheme

- Workshops
- Small salary grants
- Research stays
- Fieldwork
- Instruments and repairs
- Page charges
- etc



iClimate in numbers

A total of ~**150 scientists** at all levels from **17 departments**

Total granted amount to iClimate in the first three years is **215 mio DKK** divided into 44 public funded projects, 20 private funded projects and 16 EU projects.

The total number of **peer-reviewed papers with iClimate as affiliation** is around **150 from 2017 to 2021**. Counting all papers from iClimate-people, **the total is almost 1800**.

Activities

Discussions among researchers across the university and **joint research activities, projects and proposals**; for instance, through pillar-wise activities, common workshops and shared PhD-students

iClimate **Network of Early Career Scientists (iNECS)**

National and international **workshops and webinar series**

OH-funds; interdisciplinary workshops, small research projects, proof-of-concept tests, research stays as well as instrument purchases and repairs

... and some bumps in the road

Covid-19 has directly impacted laboratory and field work. The lack of physical meetings under Covid-19 has also slowed down the interdisciplinary integration to some degree putting a limit on new collaborations.

Despite **centre leader changes**, we are still focused and motivated.

Trends in areas with iClimate expertise

Global and Arctic climate – processes and feedbacks

- Climate-biosphere interactions and the carbon cycle
- Atmosphere-ocean-land-ice processes
- Arctic-midlatitude connections

Cities, health and adaptation

- Climate extremes, pollution and health
- Cities taking action, mobilizing people
- Adaptation actions

The food of the future

- Reducing the climate footprint while improving resilience and robustness
- Carbon farming and plant food protein crops
- Plant phenotyping and soil health management

Governance and policy instruments

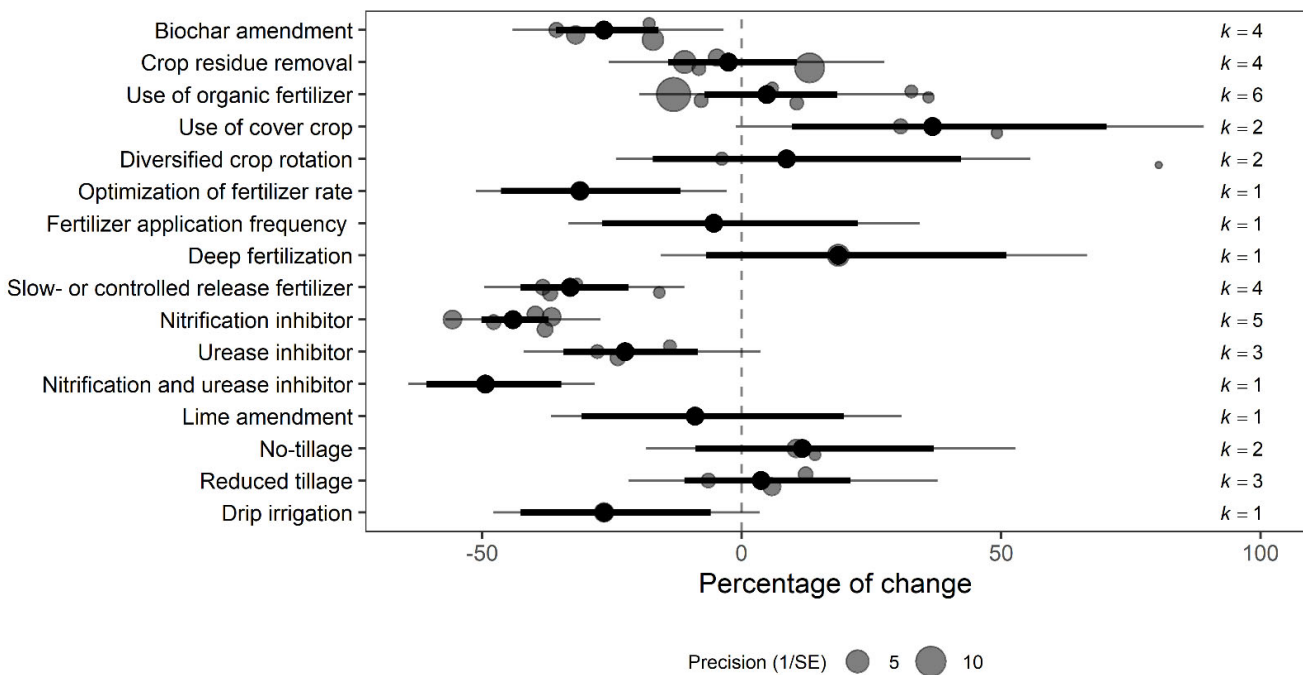
- Carbon sequestration
- Energy, land use, transport and taxation policies
- Consumption patterns

Circular systems and carbon inventoring

- Circular production systems
- Asset-level monitoring and reporting
- Quantification of the dual risks



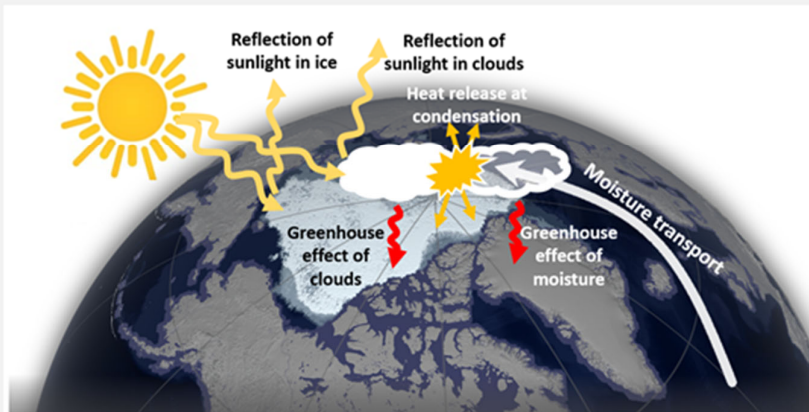
AARHUS
UNIVERSITY



Diego Grados, Klaus Butterbach-Bahl, Ji Chen, Kees Jan van Groenigen, Jørgen Eivind Olesen, Jan Willem van Groenigen, Diego Abalos

RESEARCH OUTPUTS

Arctic warming and lower-latitude connections



Peter Langen, Centre Director
and the iClimate core-group



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UNIVERSITY
DEPARTMENT OF AGROECOLOGY



SWOT

Strengths

- Truly interdisciplinary.
- Pillar structure fosters exchange of ideas across fields while lightweight and flexible.
- Considerable funds through the 10% OH scheme; majority goes directly back to the members.

Opportunities

- Climate change is high on the agenda.
- Strengthening of the engineering fields at AU.
- Widen the scope across other faculties such as Health, Business and Social Sciences and Arts.

Weaknesses

- Most of the work relies on personal, unpaid engagement.
- No salary for coregroup work, networking activities and meetings.
- In terms of interdisciplinarity, we still have not tapped fully into the potential for centre-wide projects.

Threats

- Core group work relies on unpaid, individual engagement posing the threat that this engagement could be lost.
- Continued reductions in basic funding.
- Shifts in political agendas.

