

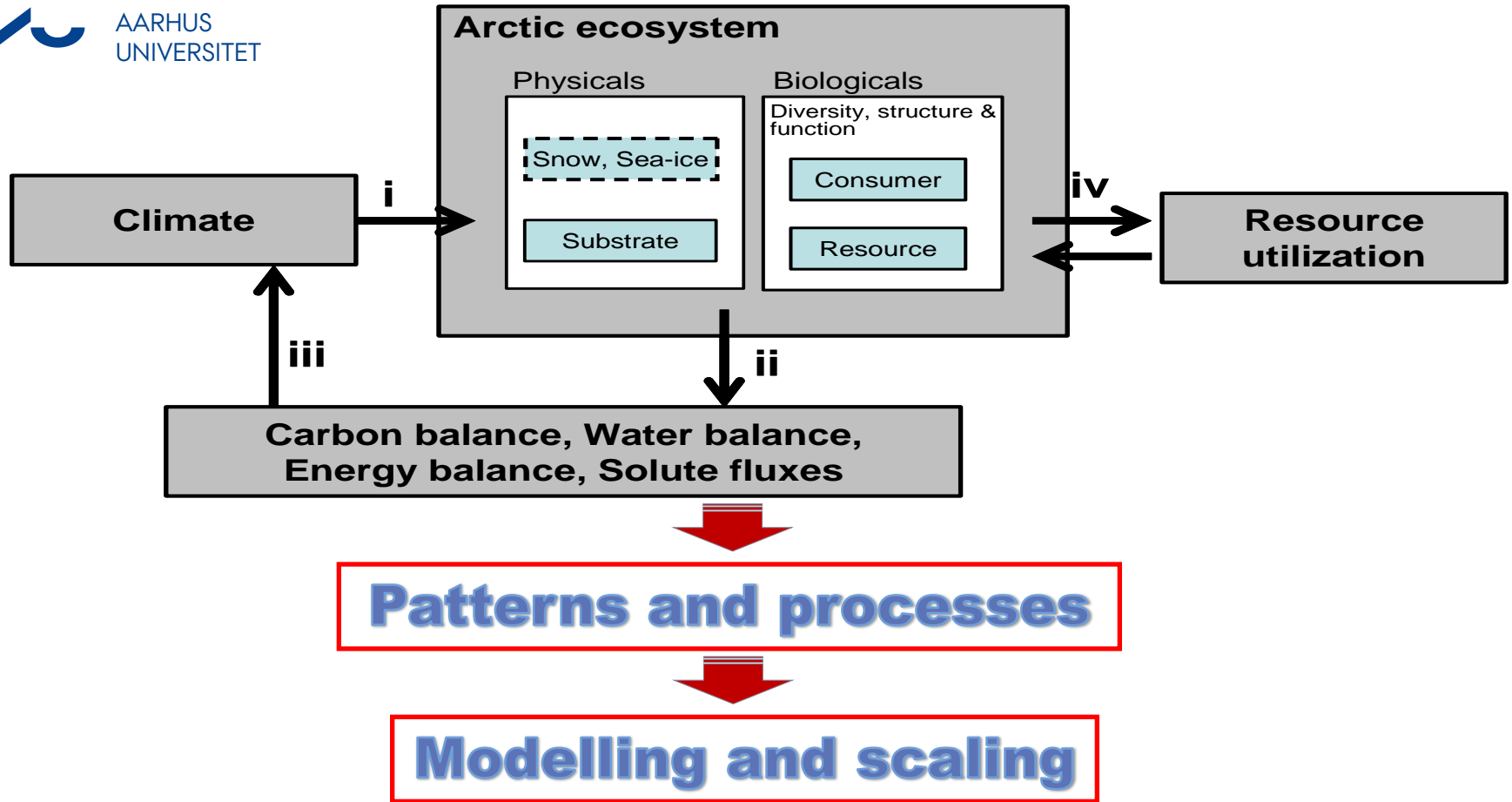
# GREENLAND ECOSYSTEM MONITORING

AN INTER-DISCIPLINARY LONG-TERM MONITORING AND  
RESEARCH IN GREENLAND

NIELS MARTIN SCHMIDT

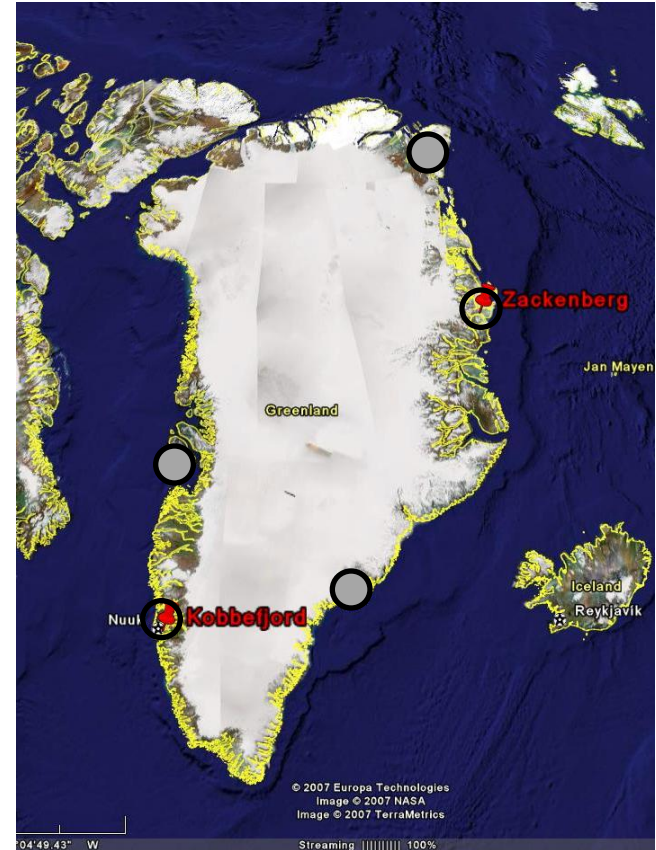
ARKTISK CENTER, INSTITUT FOR BIOSCIENCE





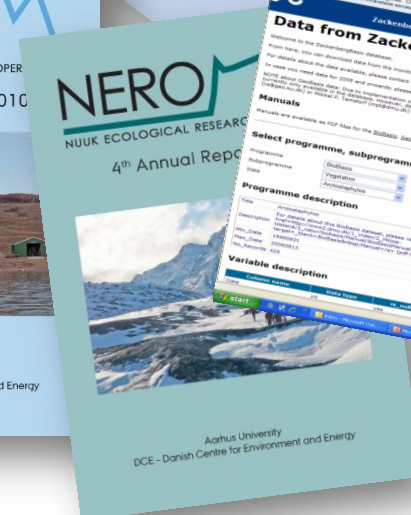
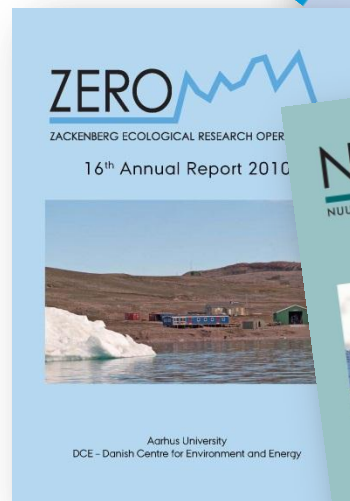
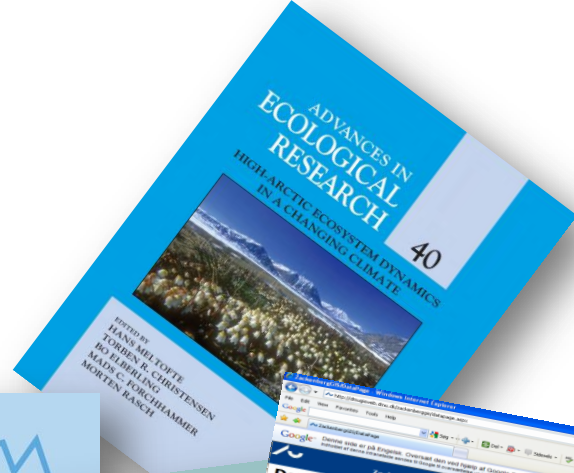
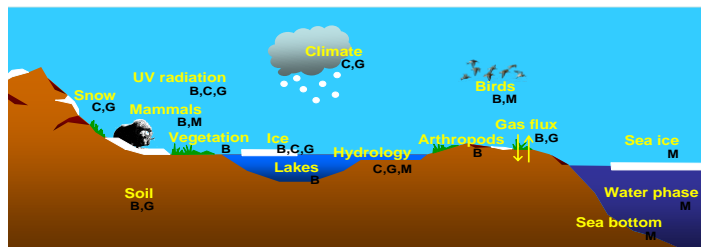
# MAIN QUESTIONS

- › How and why does climate variability influence the dynamics of high arctic ecosystems?
- › How do high arctic ecosystems affect climate?



# PARAMETERS AND DATA

- › App. 3500 parameters
- › Data are public domain
- › Annual reports
- › Scientific publications





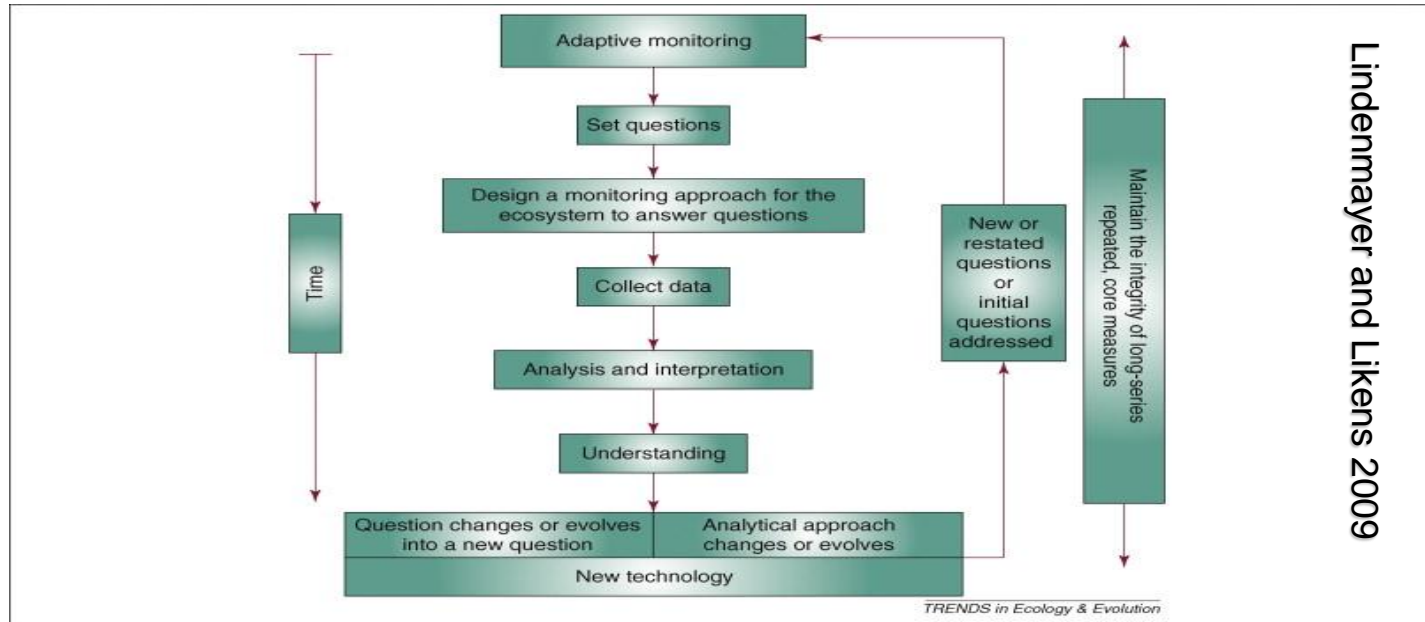
# FUNDING

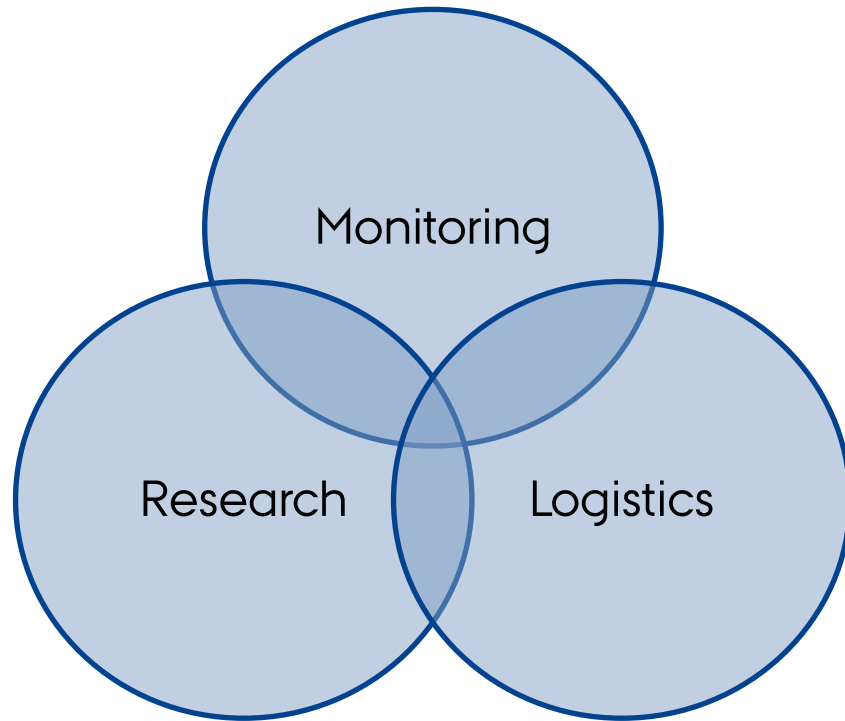
- › Danish Energy Agency, the Danish Environmental Protection Agency, the Danish Research Agency and the Greenland Government
- › Annual budget is c. 3.5M EURO
- › Establishment of infrastructure was mainly financed by Aage V. Jensen Charity Foundation
- › Operated as a center without-walls

# MONITORING APPROACH

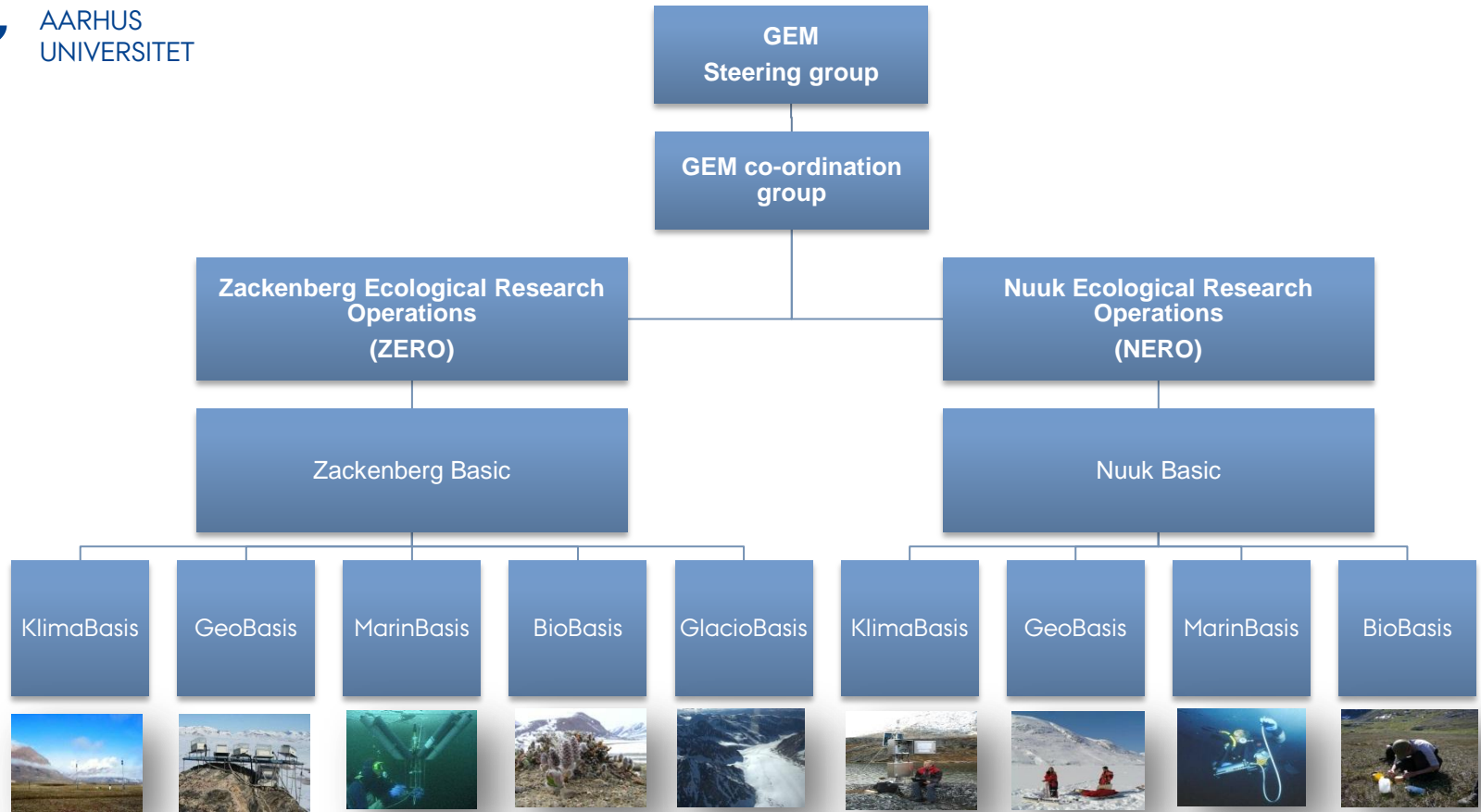
- › Ecosystem approach
- › Question based
- › Regular evaluations of scientific questions and parameters
- › Involvement of relevant parties (stakeholders /political-administrative system, scientists etc.)

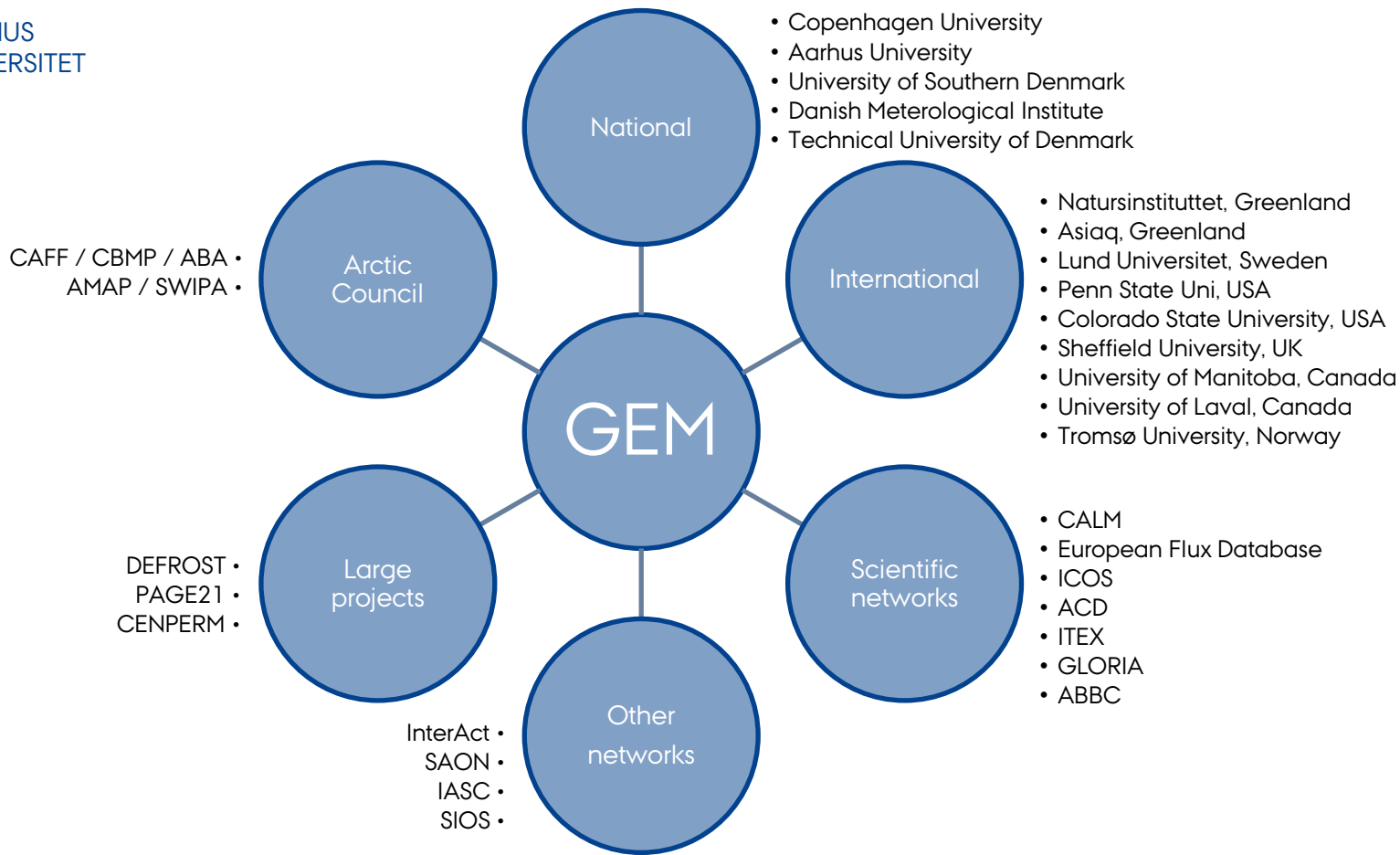
# ADAPTIVE MONITORING





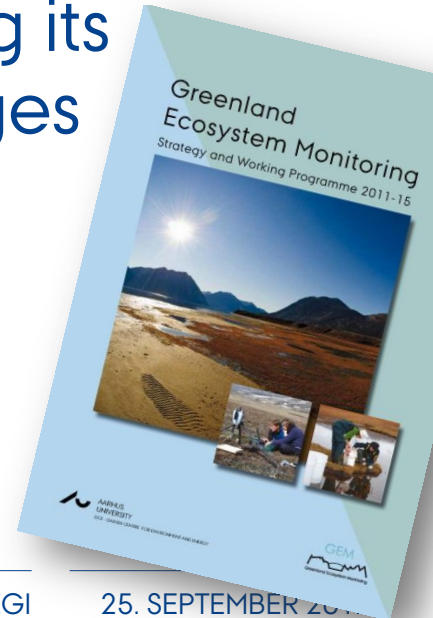






# GEM STRATEGY 2011-15

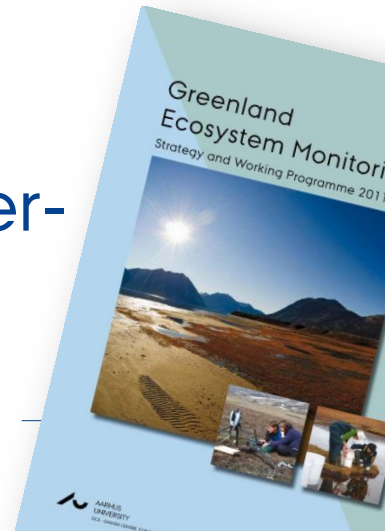
- 1) Coherent and scientific sound description of the state of the arctic environment, including its biodiversity, in relation to climatic changes
- 2) Focus on ecosystem responses and on global impacts related to the feedbacks processes



# GEM STRATEGY 2011-15

3) To provide science-based input on the state of the environment in Greenland and the Arctic for Danish, Greenlandic and international policy development, adaptation and administration

4) To provide a platform for cutting-edge interdisciplinary research on the structure and function of arctic ecosystem



Thank you!

