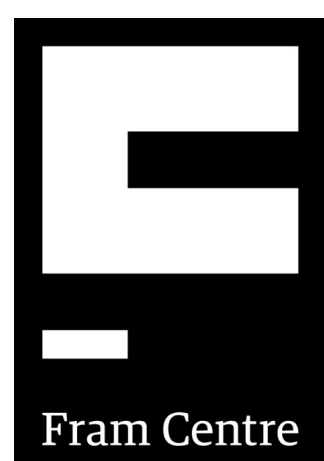




International Arctic Cooperation is Key for Environmental Sustainability



The FRAM – High North Research Centre for Climate and the Environment

The FRAM Centre consists of 21 Norwegian institutions collaborating across diverse scientific fields. The Centre actively initiates interdisciplinary research and outreach across the fields of natural sciences, technology and social sciences.

The FRAM Centre's mandate is the provision, to Norwegian Policy Makers, of resources necessary for the management of climate, environment and cultural/human resources in the High North.

Enabling cross-disciplinary collaboration, in order to facilitate greater understanding of the Arctic climate, is vital when attempting to fulfil the UN's sustainable development goals.

Areas of focus for cooperation are

Effects of climate change on **fjord and coastal ecology** the north

Effects of climate change on **terrestrial ecosystems**, landscapes, society and indigenous peoples

Hazardous substances – effects on ecosystems and human health

MIKON – Environmental consequences of **industrial development** in the North

Ocean acidification and ecosystem effects in northern waters

Sea ice in the **Arctic Ocean**, Technology and Governance

Two examples of this cross disciplinary work are to be found below.

From the cooperation area **Fjord and Coast** - harmful Arctic algae biosensor - biosensor for harmful arctic algae - can a high- frequency non-invasive valvometer equipped for the Icelandic scallop help detect exposure to harmful algal blooms?

From the cooperation area the **terrestrial environment** COAT (Climate-ecological Observatory for Arctic Tundra) providing data and analyses on long-term ecosystem-level impacts of climate change in the Norwegian sector of the terrestrial Arctic.



Dr Kathryn A M Donnelly
Fram Centre, Tromsø Norway