



New Building for the North

The next step in the High North Strategy

Handwritten text or markings, possibly a signature or set of initials, located at the top center of the page. The text is faint and difficult to decipher.

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NEW BUILDING BLOCKS IN THE NORTH THE NEXT STEP IN THE GOVERNMENT'S HIGH NORTH STRATEGY

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f ä *The establishment of the Centre for Ice,
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fie

f ä *Generating knowledge of the environ-
ment and living resources in the marine
environment in the north:*
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... ie _ _ i, ffi i _ i,
... i e f he ee e¹ f ie
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f he e e i P i¹ e¹ he
i¹ e f i e ee¹ h e¹ e¹
ee e¹ i h _ i e¹ i
e e e¹ e¹ i e¹ e¹ he¹
e e e¹ he _ f e
_ h i e¹ he¹ e¹ i e¹ i,
he _ i e h f i e¹
e e i, i i e e
h _ ee¹ e, i h i
* e _ e he e i P i¹
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f ä Knowledge building on the impacts of and adaptation to climate change for business and industry, based on cross-sectoral cooperation:

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f ä New research programme on climate change and ocean acidification:

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i he¹ h ee e e e f
_ e¹ _ fi i e i e
f e e i e i _ i e
e i he¹ h i, h he ef e
e i he f ef i f ee e¹
i i e i, i i, e _ i, he
effe f he he _ h i e h * e
_ e ee i he _ e¹ e
i, he e e e _ f
he i f i _ ee e
ee h i e ee¹ h e
i _ e¹ _ fi i h ee¹ e
i e he ee¹ h i f

f i P i ef e i h e
e e i i
e i e i i e e e e
i h e i e e i f e

f ä *The establishment of an environmental specimen bank of ecological toxins:*

P e i f h e e i e i
e e i i e e e i e e
h e e i P i i
h i e e i e e i
h h e i e i i h h
e e e h e i

1.2

1.2.1 Establishing an Arctic earth observing system in Svalbard

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e e i i e e e i e i e
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1.2.2 Building a next-generation radar system in the High North (EISCAT 3-D)

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e...¹...i...e¹ fi...
ie... ee^{h1}...
ee...e¹...e¹...ie
ie...i...

h...e¹ h...e...e...
e...e¹ h...e...e¹...e
he...e...e...f...
...ie...e...ie

1.2.3 A new ice-class research vessel

ie...ee...e...i...e...
...ee...e...h...e...e...
e¹...ee...e¹...ee^{h1}...e...ef
he...e...h...e...e...iee
...f...h...e...i...e...e...e...
...ie...e¹...e¹...i...e...e...
...e...ie...e...e¹...e¹...f...e...
he...ee...e¹...f...e...e...i...
i...e...e...e...e...
e...i...ee¹...e¹...h...e...i...e...
ee¹...e¹...he...e...f...e...ie
i...i...e...e...e...i...
if...e¹...e...f...h...e...ie...e...
i...ie...e¹...i...e¹...f...h...e¹...e...
i...i...e¹...i...e...i...e...ie
i...i...e...i...h...e...i...e...e¹...f...h...e
he¹...e¹

e...e...e...h...e...ff...ie...e...
e...e...e...ie...ie...e¹...i...e¹
ie...ee...h...i...i...i...f...h...e¹...h...
e¹...e...h...e...e...e...f...e...
...e...i...h...ie...ie...h...e...i...
i...i...e...e¹...f...ie...e...e...
...ee...e...h...e...e...
...e...i...i...h...e...e...e...
h...e...e...ef...ee...i...i...
ie¹...i...e...e...ie...e¹...i...
i...e...h...e...ie...e¹...f...i...
...h...e...e...h...e...e...
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h...h...e...e...e...i...e...
f...ie...e...e...i...h...e¹...h...
he...e...e...i...ee...h...e...e...e...
ee...e¹...e...i...i...f...h...e
e...e...e...h...e...ie...ee...h...
...i...i...h...e...e...e...h...
he...h...e...e...e...ie

he...i...i...h...e...e¹...he...
...e...e...e...h...ie...i...
h...h...ie...e...e¹...i...e...e...
ie...f...h...e...ie...i...i...f...e...e...
e¹...i...e...ee...h...e...e...
e¹...e...h...e...i...e¹...fi...
...i...i...ie...i...e...e...e...
...e¹...h...i...h...e...i...ee...h...eff
i...i...i...e...e...
he...ie...e...e¹...h...e¹...ie...ee...h...
i...i...i...f...h...e¹...h...e¹...e...e...
...i...h...ie...i...h...e...e...e...
...e...e...h...h...e...e...h...
...e...e...i...i...i...e...e...

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e...ie...e...e¹...f...ee...h...f...
f...fi...h...h...e...i...e¹...e...
i...e...e...ee...h...fi...h...e...
e...e...ie...ee...h...e...i...
e...e...e...ee...h...i...h...e...e...
h...e^{h1}...e...e...ie...e...h...e...
...f...h...e...i...e...e...i...
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i...e¹...i...h...e...e...

h...ef he...e...e...
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e...e...e...i...e...

2.2.2 Improving maritime safety

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e...i...e...e...fe...i...e...
i...h...he...i...e...

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i...i...i..._...ff...e...
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...i...e...e...i...h...
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...he...ef...ef...h...i...
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h i i e & eff he e
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3.1.3 Exploring the potential of bioenergy based on marine algae

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3.1.4 Combating illegal, unreported and unregulated (IUU) fishing

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3.2.1 Developing Norwegian ports and supply industry in connection with a possible opening of new sea routes in the north

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3.2.2 Developing expertise on maritime activity in Arctic areas

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3.2.3 Satellite-based automatic ship identification

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f ä 0 Üzzē "äŦ qä ŪŦ qē" aŦ äozä& c oäl ŦŦäöä
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f ä ' - ÄŦŦöē "äozä i Öcäl ŦŦäfi ŪŦ - äŦŦqi gä
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f ä ' - ÄŦŦöē "äggŦŦöŦ qäŦŦöozäŦpözŦŦÄē" ää
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f ä L zōz " äz U j i² q äz - Ä q o - z² ä O q ä ä
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f ä = O X² " ä z ä z O j i² O ä i O S G O e j² Y ä
 in the field of tourism – knowledge about
 nature, protection of the natural environ-
 ment, culture, the cultural heritage, market
 development and product development:

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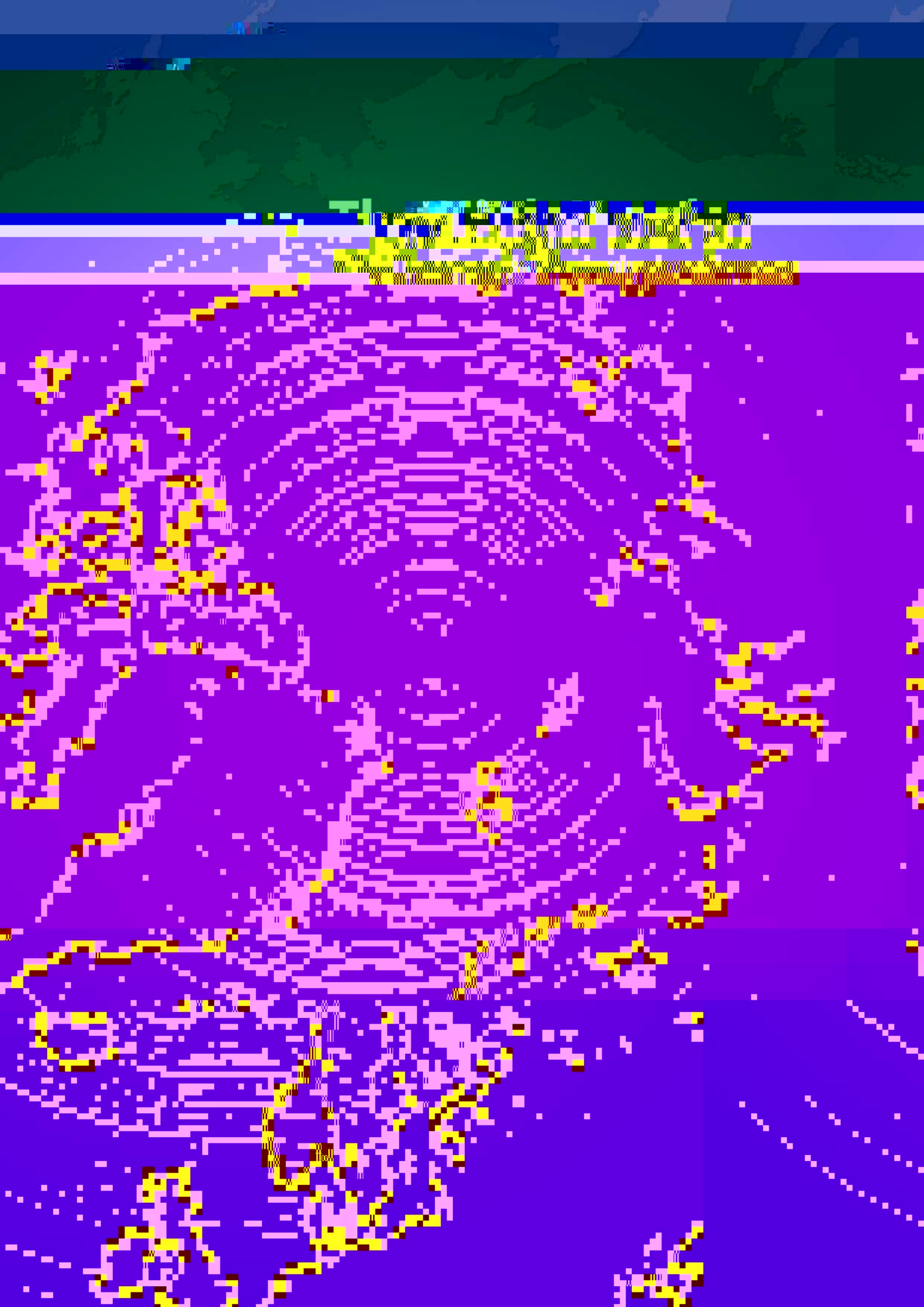
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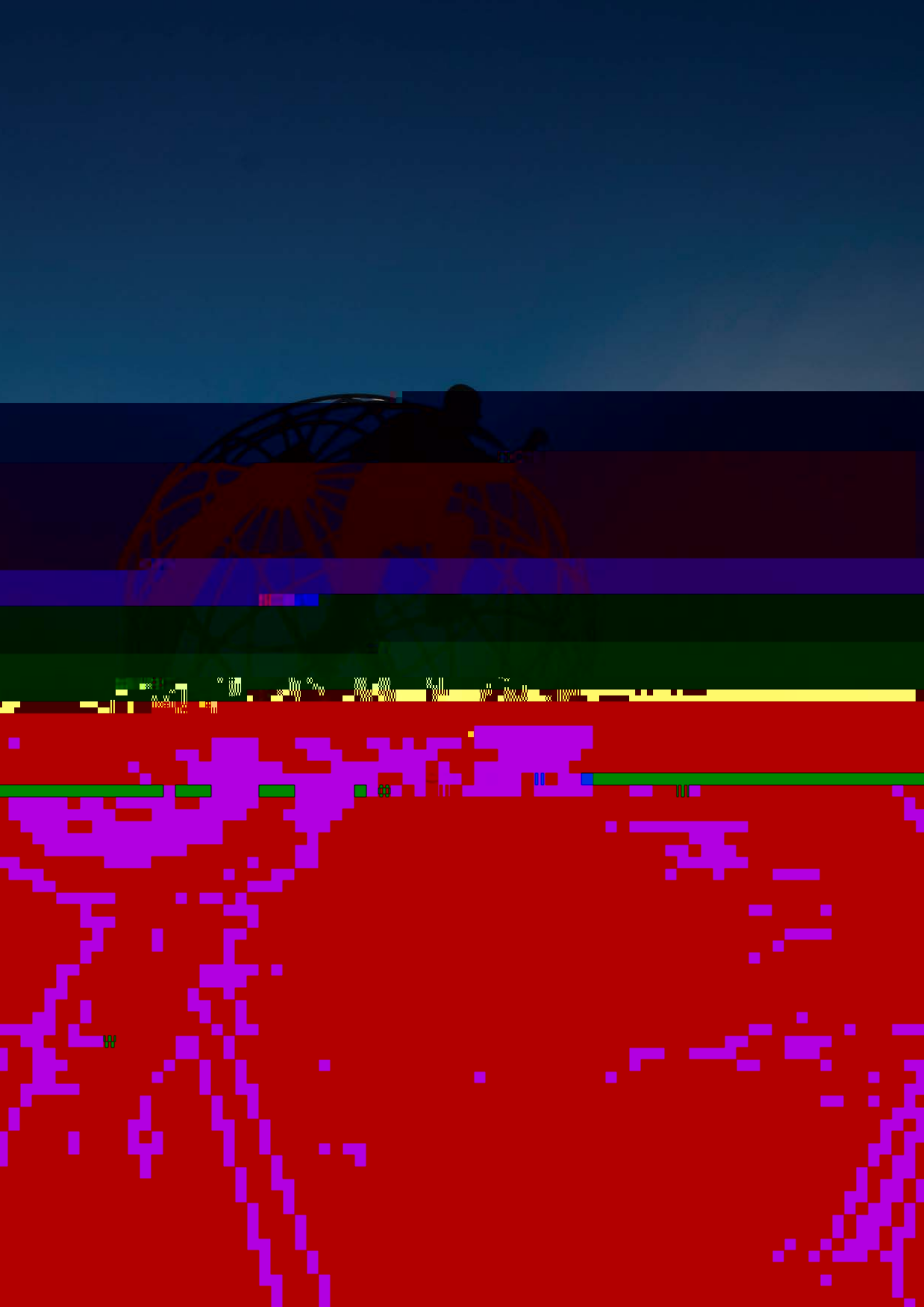
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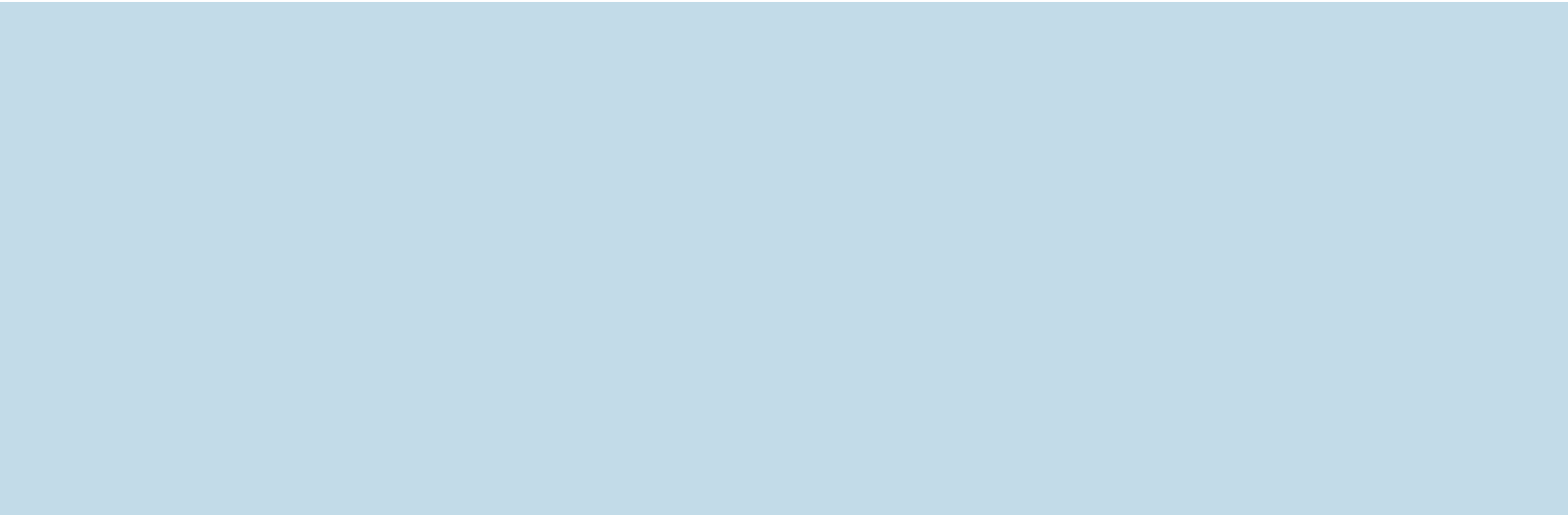


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*Photo: Johan Wildhagen/
Innovation Norway*



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The Government's High North Strategy
 is a key element of Norway's foreign policy.
 It focuses on the Arctic region, which is becoming
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 It also emphasizes the importance of international
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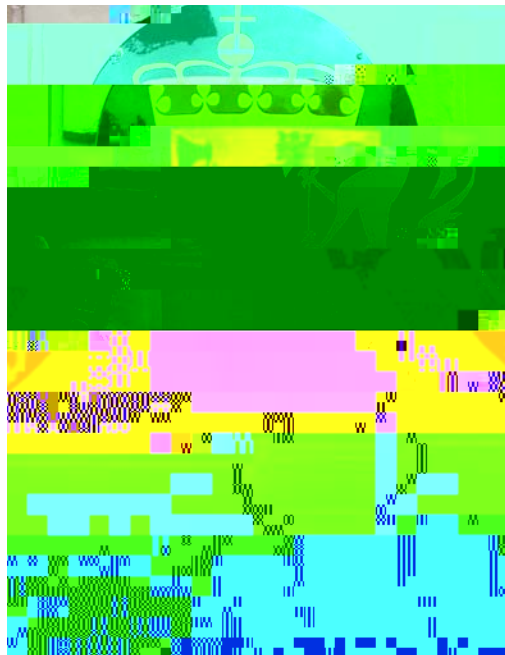
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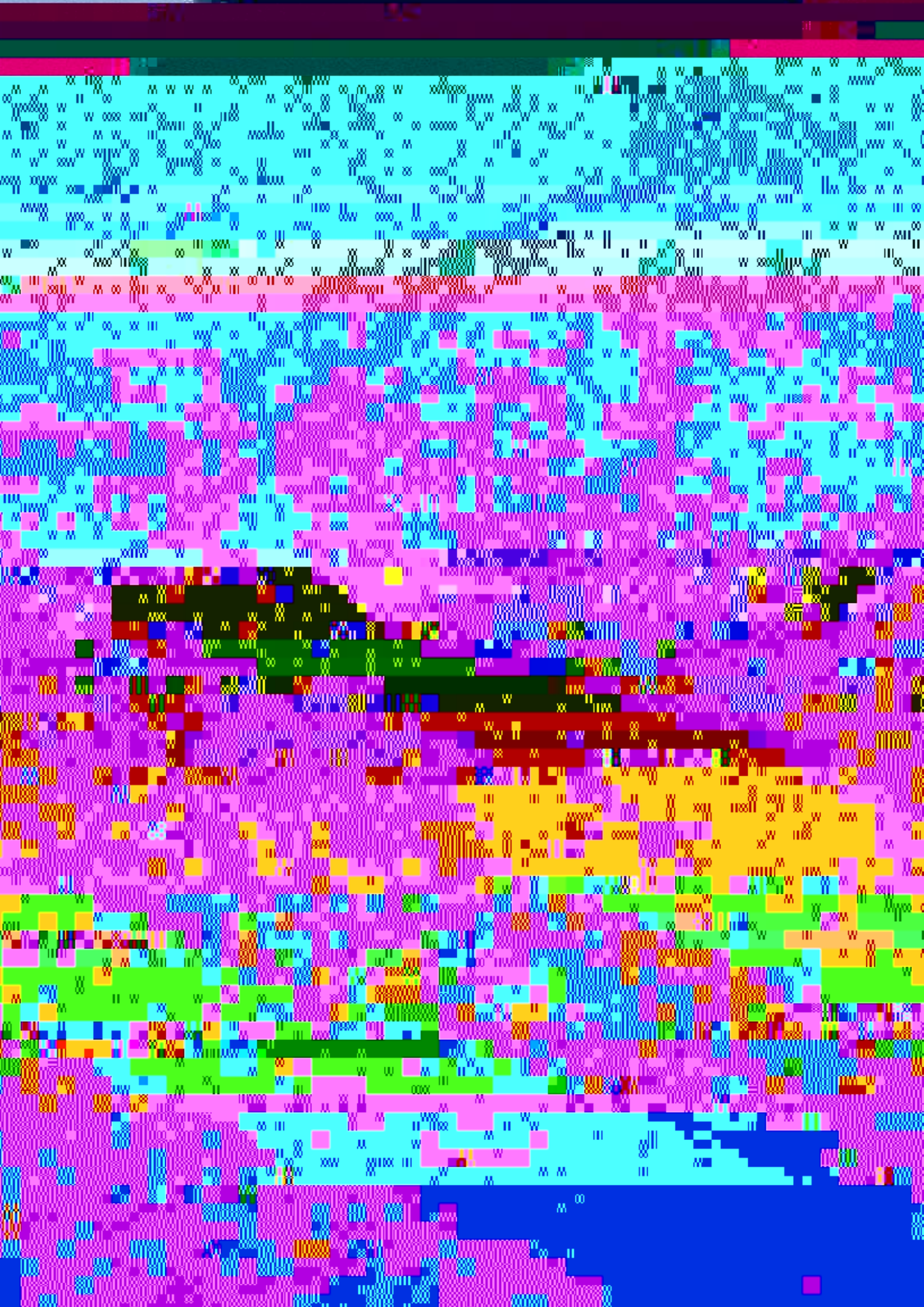


The Norwegian Embassy
 in Moscow.
 Photo:
 Barents Secretariat



*Minister of Foreign Affairs
Jonas Gahr Støre and
=i Y'CVÁD e' Sæ'á'as'Úz'ä
Affairs Sergej Lavrov
exchange the documents
for commencement of the
Varangerfjord agreement
of 2007. The agreement
is the first border agree-
ment between Norway and
=i Y'CVÁE' g'á'á'< á'á'Q' q'ä
it establishes the border
between the two countries
in the Varangerfjord area.
The meeting was held in
Kirkenes in June 2008.*

*Photo:
@Ú'Ú' ä- Oeä' Q'ä'rá
Nordlys*





The hermit crab, *Pagurus pubescens*, contains substances with properties that may be useful for research and industry.

Johansen

WEALTH CREATION

can be developed and sold. Innovation in areas such as exploitation of small molecules from marine organisms and experience of the great outdoors can provide good business opportunities.

Marine bioprospecting: Molecules for sale

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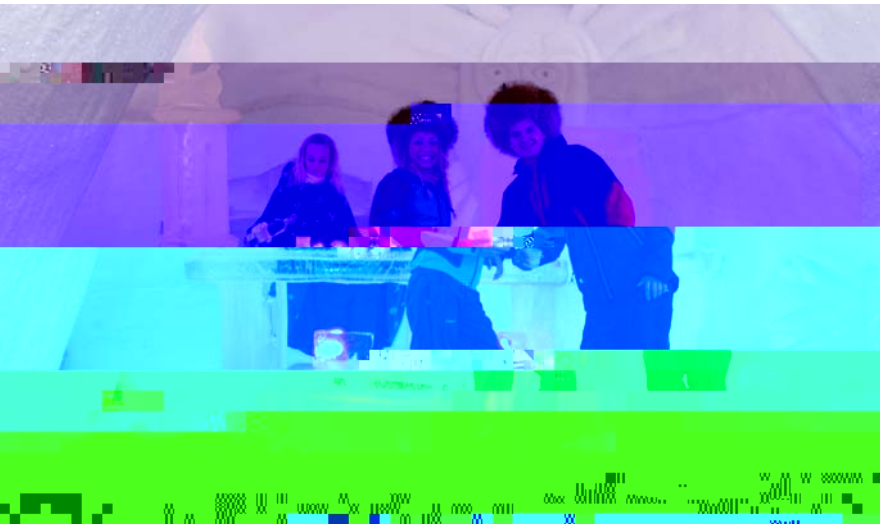


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Lecturers from the University of Tromsø cooperate with the University of Gothenburg on training young entrepreneurs.
Photo: University of Tromsø

Outdoor adventures for sale

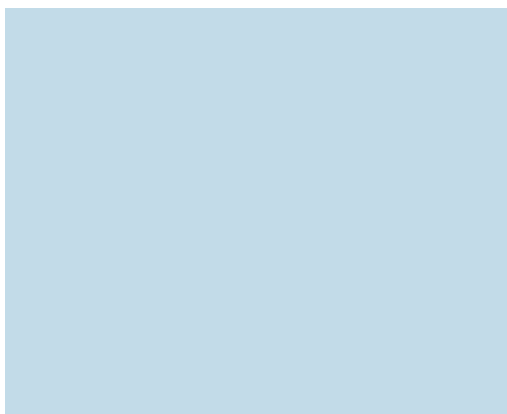
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The snow hotel in Kirkenes offers guests a warm experience in cold surroundings.

Photo: Geir Moen/gofoto.no

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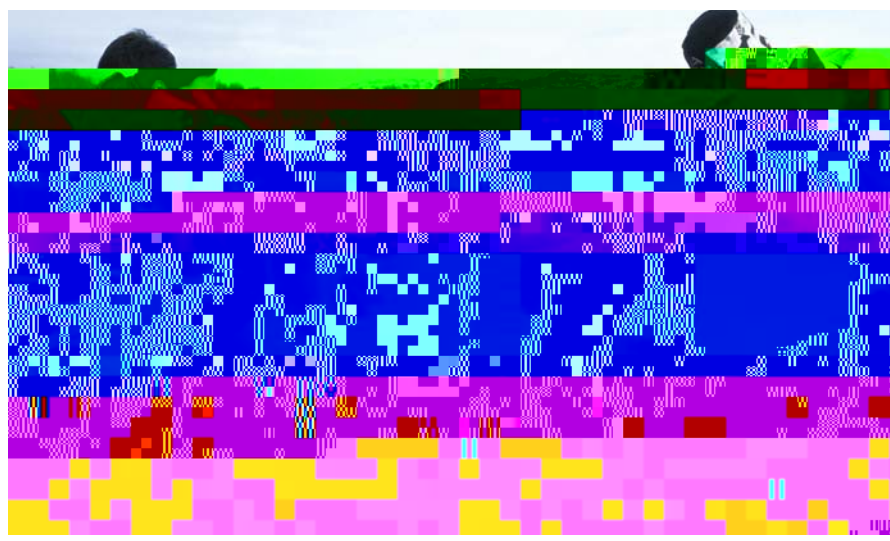
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BETTER TRANSPORT AND MOBILITY

Northern Norway is characterised by great distances, and markets are often far away. Wealth creation in the High North is dependent on a well developed and well functioning infrastructure including postal and telecommunications services, roads, airports, railway connections and harbours. The Government's transport plan for the coming years is one of the cornerstones of the High North policy.

Important for the welfare of the inhabitants and for business and industry

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Lars Petter Øie reaches a freshly caught king crab to guests during the crab safari in Kirkenes. Øie's king crab safari is part of Sør-Varanger's award-winning adventure holiday package. Photo: Jørn Tomter

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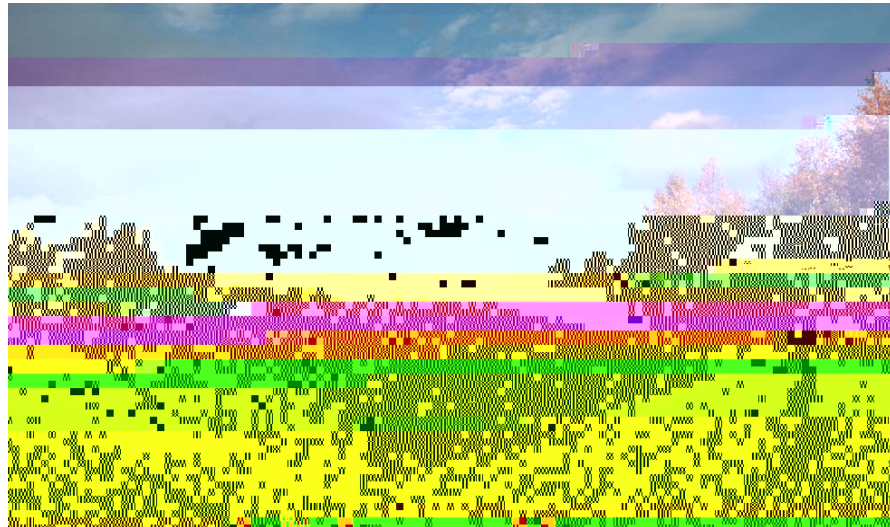
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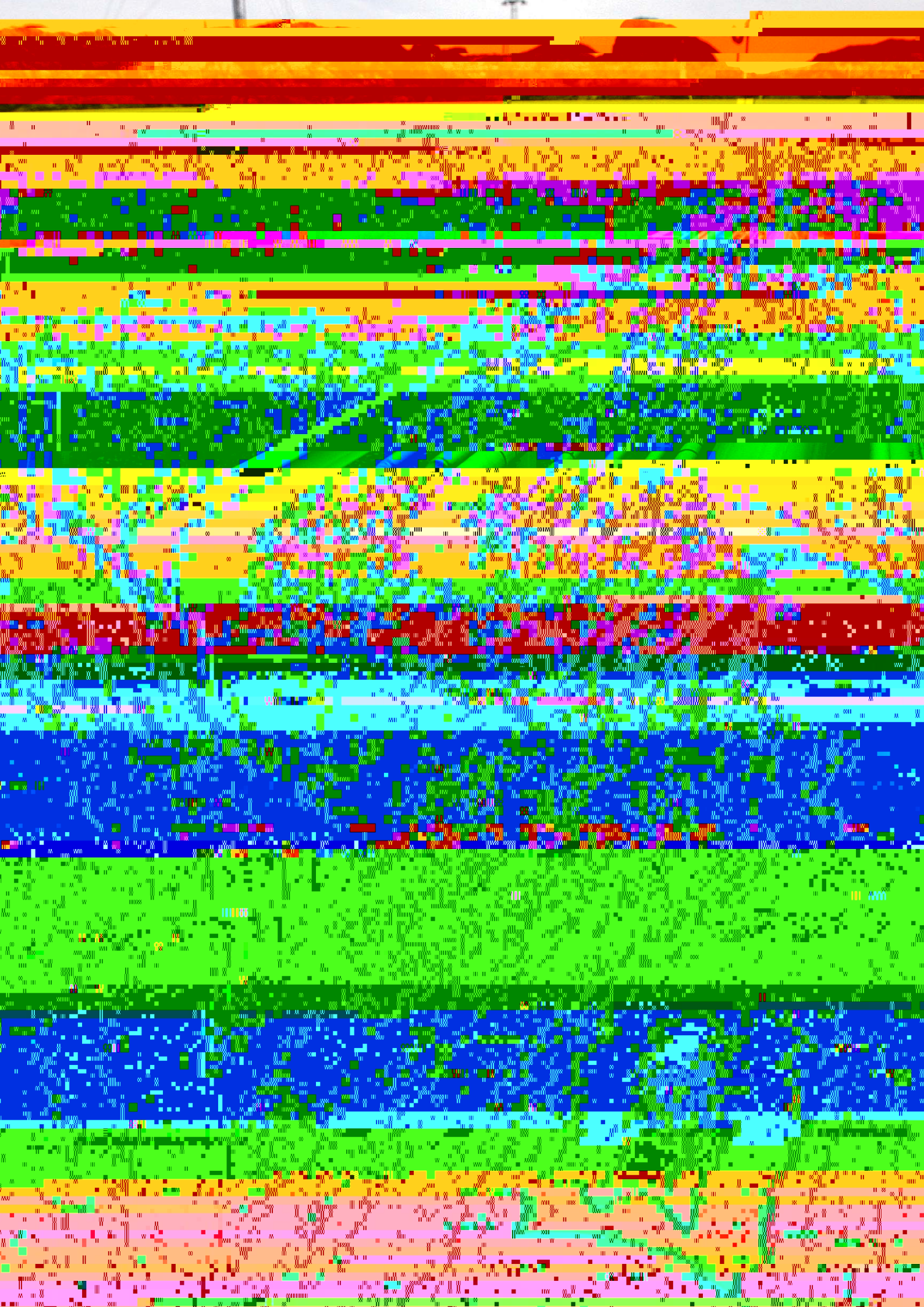
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Air transport is important

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The Government gives priority to improvements to the trunk road network in Northern Norway, particularly narrow, winding roads, roads that are difficult to use during the winter, and roads subject to landslides. The picture is from the stretch of highway from Nikel to Kirkenes. Photo: Barents Secretariat



WEALTH CREATION FROM OIL AND GAS

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– the sea north of the Norwegian mainland. Petroleum activities in the High North may in the long term have major positive, regional and national ripple effects. The Government will make provisions for petroleum-based employment and wealth creation in Northern Norway.

INTRODUCTION

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Photo:
L O'ä O'² zä Äö² qä
StatoilHydro



*Activity in the
Barents Sea.*

*Photo:
StatoilHydro*

FACILITATING DEVELOPMENT

*The geological mapping of possible
petroleum deposits in the High North
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ment will allow Northern Norwegian
industry to position itself so that local*

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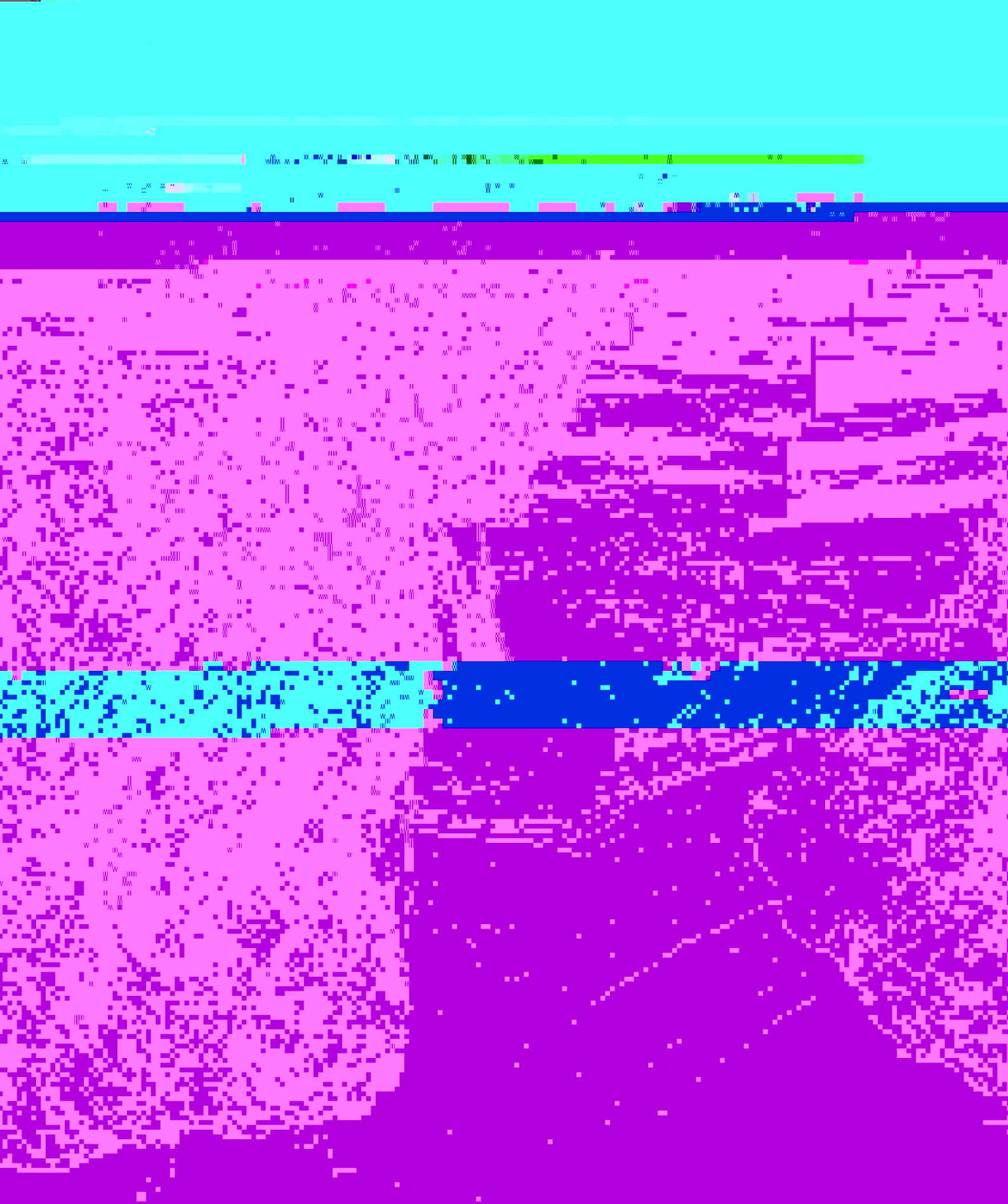
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In Astrid Tugwell's view, one must see the opportunities of Northern Norway.

*Yá zōzŋÁ- z² æ ŨggŋĀ
of a new North Norwegian oil company, she wants to take part in ensuring that oil extraction activities in Northern Norway respect the local environment and employ the local population.*

*Photo:
Origo/Hege E. Johansen*



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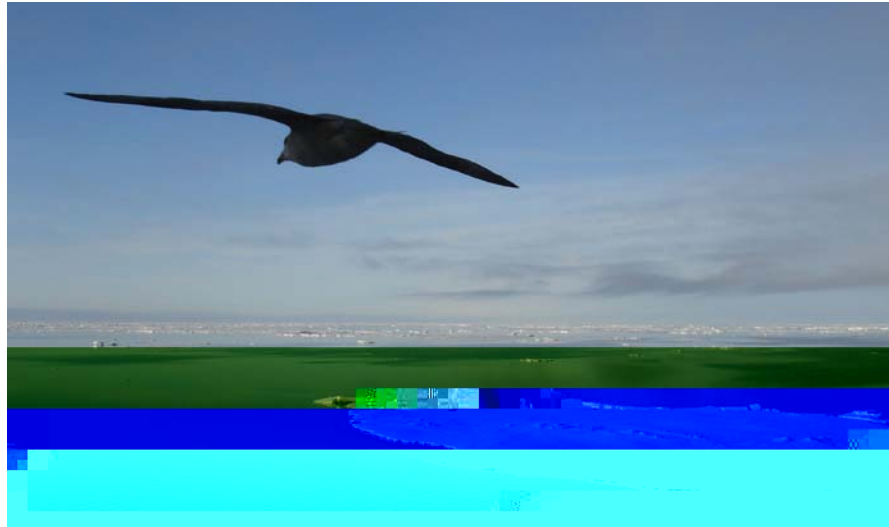
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New white paper on Svalbard

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Ivory Gull, here photographed over the Barents Sea, is one of many species threatened by climate change and human activity in the Arctic. The Ministry of the Environment is making efforts to protect the vulnerable ecosystems in the High North.

*Photo:
Cecilie von Quillfeldt*

The fishery resources of our northern sea areas are among the world's richest. The Government is continuing its efforts to reduce illegal fishing in cooperation with

Photo:
Kjell Ove Storvik/
Norwegian Seafood
Export Council

tant to extend cooperation with other countries on management of fish stocks while developing systems for monitoring shipping, emergency preparedness, and search and rescue service. Cooperation on combatin

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The Government has implemented extensive measures to combat illegal fishing in order to ensure that fish remain a renewable resource. Ice melting in the Arctic will open up new sea areas for fishing and transport. It is therefore impor-

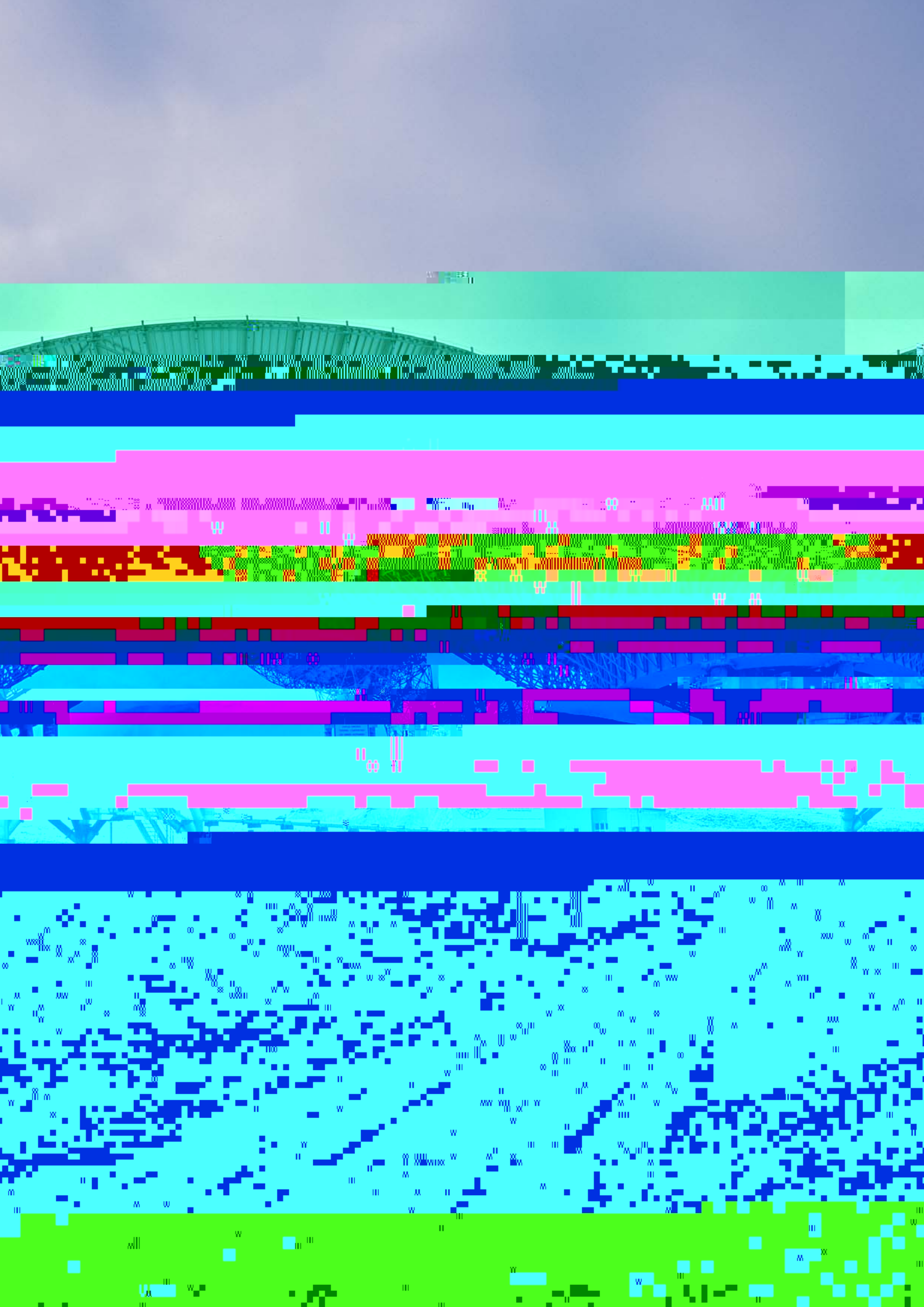
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KNOWLEDGE PAVES THE WAY

Si äÜä" Úö ää& c oäl ¶ÜäÜzi i ÜYäÖä zä gÜÖZä¶i Üä² ¶ö Öq" zra¶ ¶ä¶¶äÖ qä in the High North. The Government is investing more in High North-relevant research and in strengthening universities and university colleges in Northern Norway. A key Úöä äYäÖzqä ääzä zÜÜgöfi ¶i² g¶¶äb ¶Üö Öäözä ÜgäYäz² äÖä¶ä ä understanding of global climate change. Through efforts in relation to Svalbard and

Photo:
Adnan Içagic,
Tromsø Museum

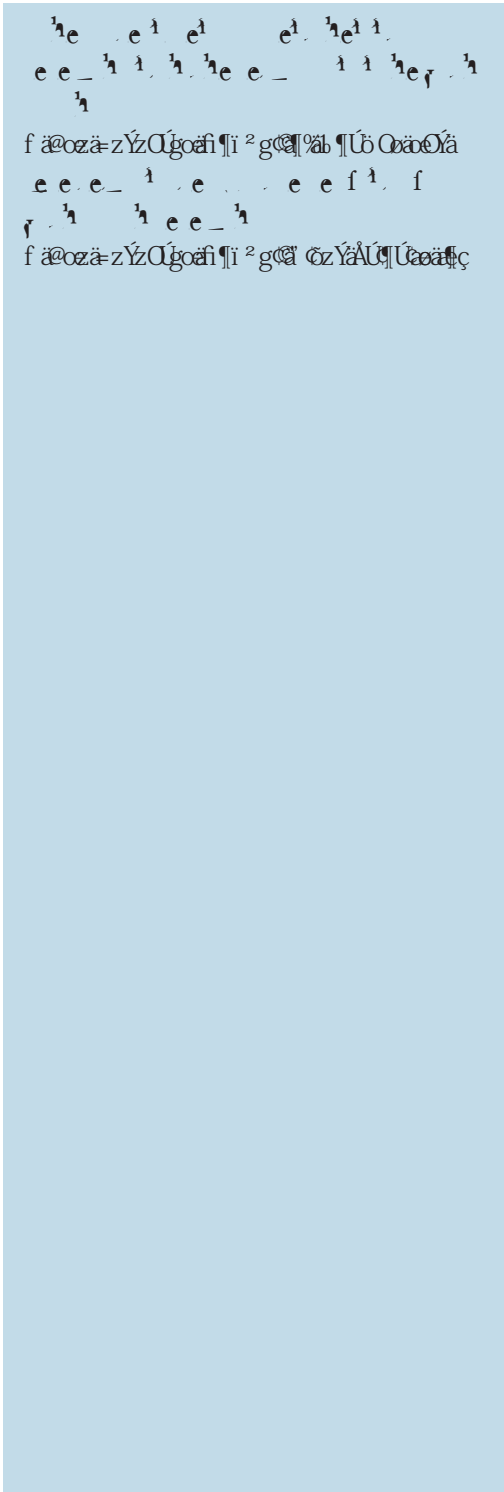
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CLIMATE RESEARCH: THE KEY ROLE OF THE ARCTIC

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in work on understanding how climate change will affect us. Svalbard's geographical location, good infrastructure and accessibility makes the archipelago a key area for obtaining such knowledge and for efforts to adapt society to climate change.*

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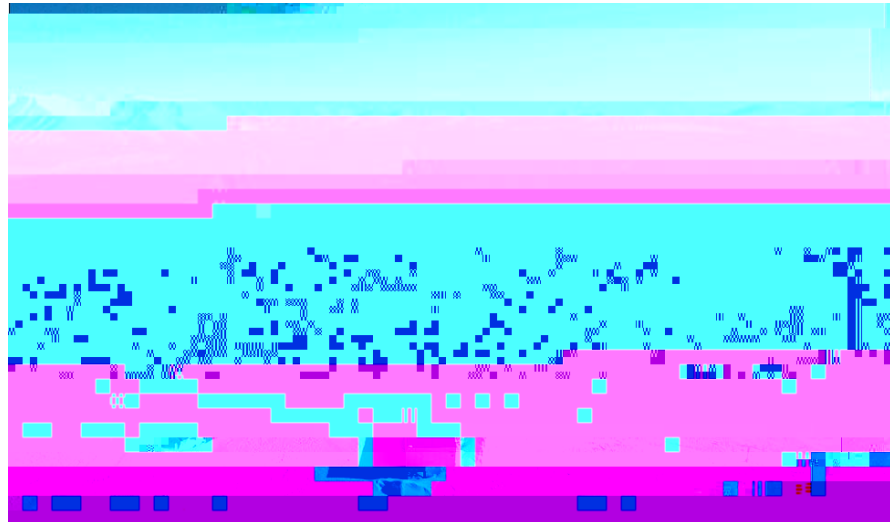
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for the first time, the Arctic region has experienced a significant warming trend over the past few decades.

The Arctic region is experiencing a significant warming trend over the past few decades. This is due to a combination of factors, including the melting of sea ice, which reduces the albedo effect and allows more solar radiation to be absorbed by the ocean. Additionally, the Arctic region is experiencing a significant increase in greenhouse gas concentrations, which is contributing to the overall warming trend.

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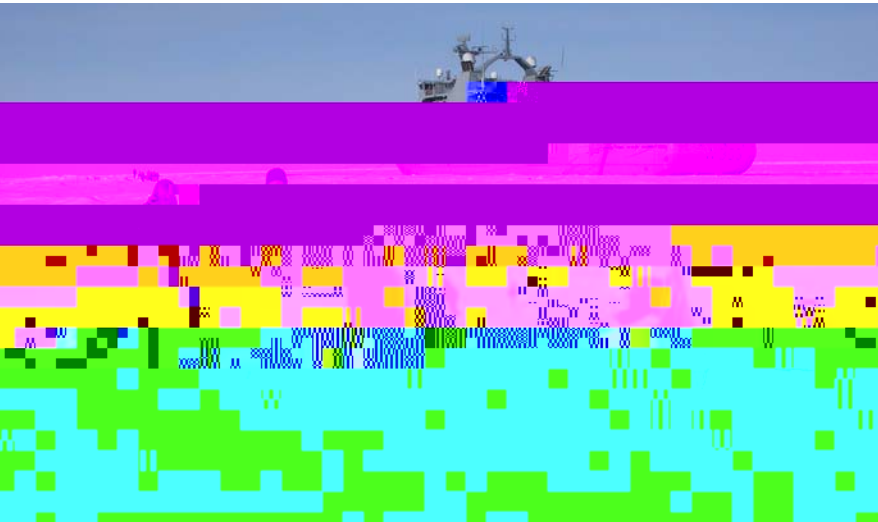


NORWEGIAN CLIMATE RESEARCH: WARMER IN THE ARCTIC OCEAN

The Arctic region is experiencing a significant warming trend over the past few decades. This is due to a combination of factors, including the melting of sea ice, which reduces the albedo effect and allows more solar radiation to be absorbed by the ocean. Additionally, the Arctic region is experiencing a significant increase in greenhouse gas concentrations, which is contributing to the overall warming trend.

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*An Arctic success:
The world's largest
ground station for
satellites in polar orbits
is located in Svalbard.
Photo:
Norwegian Space Centre*



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of ice cores in Fram-
stredet between Greenland
and Svalbard. In the
background we see the
icebreaker and the Coast
Guard vessel "Svalbard".
=zŸÜgöçÜäÖ'zäÖ- ÄÖŸä
the connection between
Arctic and global climate
change. The expedition
was possible owing to
good cooperation with the
Norwegian Coast Guard
and funding via the Inter-
national Polar Year.

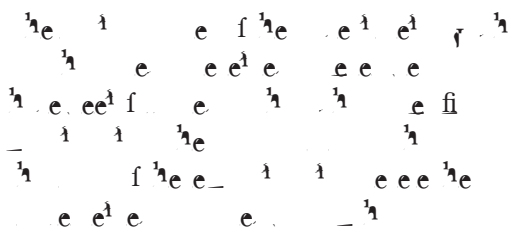
Photo:
Sebastian Gerland,
Norwegian Polar Institute

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THE GOVERNMENT'S HIGH NORTH STRATEGY

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Pomor zone. Work on realisation is continu-
ing, among other ways, through the twin town
cooperation Sør-Varanger – Petsjenga and the
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1. Further develop the active dialogue with neighbours, partners and allies on High North issues

Active visit diplomacy in relation to the High North has increased international awareness of its importance, particularly regarding the Arctic dimension.

2. Strengthen the demonstration and coordination of Norwegian High North policy in international and regional cooperative fora

The High North policy has been presented in most international, regional organisations. International secretariats have been established for the Arctic Council in Tromsø and for the Barents cooperation in Kirkenes.

3. Further develop petroleum activities in the Barents Sea through an active allocation policy to follow up results of exploration and the need for further exploration acreage

In 2008, eight exploration wells were bored in the Barents Sea. In TFO 2008 (assignment of predefined areas) two new production licences were assigned for the Barents Sea. In the 20th licensing round in 2008, 28 blocks in the Barents Sea were announced.

4. Prepare a proposal for establishment of an economic and industrial cooperation zone including both Norwegian and Russian territory in the border areas of the High North

8. Strengthen marine safety in the waters surrounding Svalbard, among other ways, by making the Harbour Act applicable to Svalbard and introducing a compulsory pilot service

The Harbour Act was made applicable to >öÖÖÖÖÖÖÖÖÖ Ööä p̄p̄ēā äḡl̄- Äi ÖÖÖÖÖÖÖÖÖÖ service is under consideration.

9. Strengthen the cooperation with the authorities of Russia and other countries in combating illegal, unregulated and unregistered fishing in the Barents Sea

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10. Strengthen efforts to follow up the comprehensive management plan through survey and monitoring of the marine environment and research into ecosystems and the ways they are affected by human activities

A systematic survey of the seabed in northern öÖÖÖÖÖÖÖÖÖ =l 1 3 äÖÖÖÖÖÖÖÖÖÖ - z̄äö ÖÖÖÖÖÖÖÖÖÖ i ÖÖÖÖÖÖÖÖÖÖ ä ÖÖÖÖÖÖÖÖÖÖ ÖÖÖÖÖÖÖÖÖÖ - Äöäq̄ä ä p̄p̄äöä ÖÖÖÖÖÖÖÖÖÖ äÖÖÖÖÖÖÖÖÖÖ - äÖÖÖÖÖÖÖÖÖÖ ä p̄p̄ ää äÖÖÖÖÖÖÖÖÖÖ i ÖÖÖÖÖÖÖÖÖÖ z̄äö z̄äö äöäÖ ÖÖÖÖÖÖÖÖÖÖ Fisheries and Coastal Affairs, the Ministry of the Environment and the Ministry of Trade and Industry.

11. Strengthen survey, monitoring and research of climate change and environmental toxins in the High North

"BarentsWatch": a pilot project financed by Barents 2020 funds for development of a comprehensive monitoring and warning system for the northern seas. Further process is to be decided ÖÖÖÖÖÖÖÖÖÖ p̄p̄

12. Continue engagement regarding nuclear safety and preparedness in the High North

Norway is due to complete the fifth and last dismantling of decommissioned nuclear ÖÖÖÖÖÖÖÖÖÖ - ÖÖÖÖÖÖÖÖÖÖ ä p̄p̄ ää ÖÖÖÖÖÖÖÖÖÖ ÖÖÖÖÖÖÖÖÖÖ ää i äÖÖÖÖÖÖÖÖÖÖ the clearing up of Andreyev Bay will continue with a long-term perspective. The last highly radioactive strontium batteries in lighthouse ÖÖÖÖÖÖÖÖÖÖ ää ÖÖÖÖÖÖÖÖÖÖ z̄äö z̄äö ä i ÖÖÖÖÖÖÖÖÖÖ z̄äö z̄äö z̄äö z̄äö out of service this year.

13. Develop environmental technology for and in the High North by means of strengthened R&D investments

The Government is to give priority to Arc- ÖÖÖÖÖÖÖÖÖÖ ÖÖÖÖÖÖÖÖÖÖ ää p̄p̄ ää ÖÖÖÖÖÖÖÖÖÖ ÖÖÖÖÖÖÖÖÖÖ - z̄äöä = z̄äö z̄äö z̄äö z̄äö ÖÖÖÖÖÖÖÖÖÖ ÖÖÖÖÖÖÖÖÖÖ ää ÖÖÖÖÖÖÖÖÖÖ ÖÖÖÖÖÖÖÖÖÖ ÖÖÖÖÖÖÖÖÖÖ z̄äö z̄äö z̄äö z̄äö Council of Norway. One of the priority areas is environmental technology in cold climate.

14. Implement more knowledge and development projects under Barents 2020

A number of projects intended to provide more knowledge in, for and concerning the High North are to be supported via the Ministry of Foreign Affairs grant scheme. Several visiting professorships have been established or are in process of establishment.

15. Establish a High North scholarship programme financed by Barents 2020 funds

The programme was established in 2007. Each ÖÖÖÖÖÖÖÖÖÖ - ÖÖÖÖÖÖÖÖÖÖ p̄äz̄ä z̄äö z̄äö - äöä z̄äö z̄äö r̄ä fi ÖÖÖÖÖÖÖÖÖÖ q̄ä-i ÖÖÖÖÖÖÖÖÖÖ ÖÖÖÖÖÖÖÖÖÖ ÖÖÖÖÖÖÖÖÖÖ ÖÖÖÖÖÖÖÖÖÖ education institutions.

