

Day 1 // 02.07.2024

ABOUT THE WORKSHOP

The Arctic is warming up to four times faster than the rest of the planet. The melting of sea ice, retreating glaciers, and thawing permafrost all threaten local lives and livelihoods are serve as a stark warning to all of us. Yet, amidst these challenges, opportunities emerge for sustainable prosperity.



Space technologies offer a powerful tool to address these challenges and unlock economic growth accross the Arctic. ESA has been working for the past 40 years to monitor and protect Earth through space, including monitoring the fragile Arctic region. Together with Eurisy, the Norwegian Space Agency (NOSA), and the Norwegian Polar Institute (NPI), ESA welcomes you to the international workshop:

Space for Arctic: Accelerating the Use of Space for Climate Action and Civil Protection.

09:00 - 10:00 WELCOME

Welcome address by Christian Hauglie-Hanssen, Director General, NOSA
 09:15 - 09:25 Welcome message from the Ministry of Trade, Industry and Fisheries of Norway (video)
 09:25 - 09:30 Welcome message by Josef Aschbacher, Director General, ESA (video)
 Setting the scene by Pascal Legai, Head of The ESA
 Crisis Response Office and Senior Security Adviser to the Director General, ESA
 Weynote speech by Sara Olsvig, International Chair of the Inuit Circumpolar Council (ICC) (remote)

10:00 - 10:30

COFFEE BREAK Flash Talks

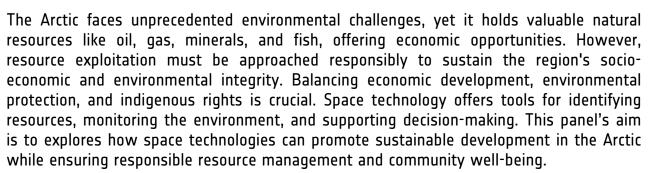






10:30 - 12:15

SPACE FOR SUSTAINABLE ECONOMIC DEVELOPMENT



10:30 - 10:45 PRESENTATION

Michelle Hermes

Policy Officer, EARSC, on the Sentinels Benefits Studies (SeBS)

10:45 - 12.15 PANEL SESSION

MODERATOR: Annalisa Donati Sectretary General, Eurisy

SPEAKERS: Ole Morten Olsen

Director of Enterprise Development and Innovation, NOSA

Benoit Mathieu Managing Director, OHB Sweden

Maja-Stina Ekstedt EVP Sustainability & Public Relations, K-SAT

Beatrice IrenLeader, Saami Association of Norway (NSR)

Dr, Dwayne Ryan MenezesFounder and Managing Director, Polar Research and Policy Initiative (PRPI)

Mads Qvist Executive director, Arctic Economic Council (AEC)

12:15 - 13:45 LUNCH BREAK







13:45 - 15:30 **SPACE FOR SAFETY**



The Arctic's remote and harsh conditions pose diverse safety challenges, including search and rescue, navigation safety, environmental protection, and disaster management. Early warning systems are crucial for addressing emergencies and mitigating risks associated with Arctic travel, tourism, and commercial activities. Satellites equipped with search and rescue transponders swiftly detect distress signals, while satellite-based systems track vessel movements and monitor ice conditions, reducing the risk of accidents. Remote sensing satellites provide critical environmental monitoring and aid disaster response, facilitating efficient relief operations. Collaboration between Arctic stakeholders and the space industry ensures safety and security for the region's people and environment. Additionally, the ESA's Civil Security from Space programme (CSS) supports disaster management and emergency response through various satellite technologies, enhancing the competitiveness of participating states in civil security domains.

13:45 - 14:00 PRESENTATION

Chrisopher Topping

Acting Head of Civil Security from Space Programme Office & Rapid & Resilient Crisis Response Accelerator Lead, ESA on the Civil Security from Space Programme

14:00 - 15.30 PANEL SESSION

MODERATOR: Isabelle Duvaux-

Bechon

Senior Advisor – Civil Security from Space/Rapid and Resilient Crisis

Response, ESA

SPEAKERS: Rosario Ruiloba Director of Business Development,

Unseenlabs

Canada Research Chair in Global Politics

Michael Byers and International Law, University of

British Columbia

Barbara V. Scarnato

Principal Consultant & Earth Observations

Lead, DNV

Yannick Arnaud Project Manager, EU SatCen

Flavio Sbardellati

Governmental and Downstream R&I

Manager. EU Agency for the Space

Programme (EUSPA)







15:30 - 16.00 COFFEE BREAK

Flash Talks XTIEPOINT





16:00 - 17:30 SPACE FOR CLIMATE AND ENVIRONMENTAL CHALLENGES

The IPCC Climate Change 2023 report highlights unprecedented global surface temperature increases since 1970, leading to rapid and significant environmental changes in the Arctic. These changes include ice melting, coastal erosion, and biodiversity depletion, impacting both indigenous inhabitants and ecosystems. While melting ice opens economic opportunities such as new shipping routes, it also poses threats like pollution and accidents. Urgent and concerted action is needed to mitigate these effects, protect the Arctic environment, and preserve life in this vital region. Space technology, exemplified by ESA's Earth observation missions like ERS, Envisat, and Copernicus Sentinel satellites, offers crucial monitoring and innovative solutions. Initiatives such as the upcoming Arctic Weather Satellite and Copernicus missions like ROSE-L and Crystal aim to enhance weather forecasting and support EU Arctic policy.

MODERATOR: Rune Floberghagen

Head of Climate Action, Sustainability and Science Department, ESA

SPEAKERS: Camilla Brekke

Director, Norwegian Polar Institute

Daniel Robert Leeb

Executive Mission Director / CEO, Iceland

Space Agency

Tina H.P.

Schoolmeester

Head of Programme, Polar and Climate,

GRID-Arendal

Roar Skålin

Director General, Norwegian Meteorological Institute

Bojan Bojkov

Head of the Remote Sensing and Products Division in the Department of Technical Support and Science, EUMETSAT

Teresa Cunha

Senior Project Officer, Safety, Security and

Surveillance Department, EMSA

CLOSING DAY 1 BY PASCAL LEGAI & COCKTAIL 17:30 RECEPTION







Day 2 // 03.07.2024

09:00 - 09:25 Keynote

Johanna Davidsson Polar Explorer



09:25 - 09:45 RAPPORTEURS CONCLUSIONS

09:45 - 10:15 COFFEE BREAK

Flash Talks

10:15 - 10:45 Φ-LAB NORWAY

10:45 - 12:15 POLICY PANEL

The panel will explore the challenges impacting the region, the opportunities arising across the Arctic, and how space can best address them. Based on the discussions addressed during the Day 1 panels, this panel will try to answer what policies and programmes exist to solve these challenges, and how they can be further developed to support local communities.

MODERATOR: Bruno Reynaud de

Sousa

Professor of International Law, University

of Minho

SPEAKERS: Laurant Jaffart

Director of Connectivity and Secure Communications (D/CSC). ESA

Rolf Skatteboe President and CEO, K-SAT

Morten Høglund

Senior Arctic Official at the Ministry of Foreign Affairs, Chair of the Senior Arctic

Officials, Arctic Council

Aleksandra Bukała

Director of the Department of Strategy and International Cooperation, Polish

Space Agency

Thomas Hoerber

Professor, Head of the EU*Asia Institute, ESSCA School of Management







12:15 - 12:30 CONCLUDING REMARKS



Pascal Legai

Head of The ESA Crisis Response Office and Senior Security Adviser to the Director General, ESA

KSAT VISIT AND RECEPTION







12:45 - 13:00

Travel to facilities.

The bus will depart from Kaigata 4 (100m from Venue) at 12:45.



13:00 - 16:00

Reception at KSAT facilities

Please ensure that you have registered for the visit. If you have not done so, please signup at the earliest opportunity.

Not signed up? Contact Henry Boeree (henry.boeree@eurisy.eu) as soon as possible!

Please also ensure that you bring with you a valid ID document, and have this ready as the bus arrives to allow you smooth access to the facilities.

Following the visit, buses will be provided to take attendees back to Tromsø (Clarion Hotel The Edge) or onwards to Tromsø Airport (TOS)

We would like to sincerely thank you for joining the Space for Arctic workshop. We hope you have found the discussions engaging and enlightening. On behalf of the entire organisation team, we wish you a safe return journey, and look forward to working with you again in the future.











