



ARCTIC CENTRE
University of Lapland



Governance for Cyber Security and Resilience in the Arctic

NATO Workshop

Rovaniemi, Finland, 27-30 January 2019

Defense, transportation, and business opportunities in the Arctic are accompanied by the danger of cyber-threats, especially to critical infrastructures which in the Arctic become “extra critical” because of the harsh environmental climatic conditions and remoteness. Critical infrastructure in the Arctic is also crucial for military and security since it hosts many data hubs, significant energy resources, and digitized infrastructural assets dependent upon secure and reliable computer control. Interferences with climatic conditions, ice, and disasters requires new methodologies of risk and resilience assessment but also effective legal frameworks able to protect critical infrastructures and sustain both industrial and military activities.

This workshop will bring together top scholars in cybersecurity risk assessment, governance, and resilience to discuss potential analytical and governing strategies and offer perspectives of how to improve critical digitalized Arctic infrastructure against various anthropogenic and natural threats. This workshop is intended for individuals with expertise in some aspect of cyber risk and resilience, as well as individuals and decision-makers responsible for developing risk governance approaches in Arctic, securing civil and military infrastructure, enhancing civil-military readiness, and executing cyber defense.

Workshop participants will be organized into three working groups: (A) Arctic cybersecurity infrastructure and its threats; (B) Analytical strategies to operationalize Arctic infrastructure threat absorption and resilience, and (C) Legal frameworks and governance options to promote Arctic cyber resilience. “State of the science and practice” reviews by these working groups along with other materials discussed during the meeting will provide a foundation for a book that will be published by Springer. This workshop will provide government officials as well as military and civilian practitioners with a better understanding of the opportunities to enhance Arctic cyber resilience against various natural and anthropological challenges.

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*This workshop
is supported by:*

The NATO Science for Peace
and Security Programme