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Title: *Communication and structure of scientific data in order to support regional and global sustainability of the Arctic Region.*

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In the light of rapidly changing Arctic environment, decision making processes are increasingly based on the latest science discoveries. Therefore it is vital that the outcomes of multiple, Arctic - related, research projects that create a holistic system of Arctic science, are available in a form that requires little time and minimum effort to grasp.

Traditionally scientific information has been provided in textual form that could only reach very narrow audience.

The Arctic Portal's engagement is a response to an indubitable need to favor the principle of sustainable development of the Arctic through the creation of technology that promotes intergenerational, intercultural and socio environmental human links, transfer of information and preservation of current and future data collections.

The geographical collection of data, will be structured in a way to bring the information up from the local Arctic communities into the global perspective what at the end will create the transfer of information and know - how between Arctic communities, scientists and policy makers.

Creation of tools that manage to quickly synthesize and compare large amount of data by creating thematically structured map layers visualizing research outcomes from different fields is a key to recognize interdependencies between past and present of the Arctic Region.

Internet - based technology used for the mapping system provides output of the visual information allowing users to connect the visual data with other sources making available sets of data stronger and more comprehensible.

This presentation overviews the idea of centralized and interoperable data retrieval and display mechanism to access and thematically compare local, regional and circumpolar scientific data in order to integrate knowledge across disciplinary boundaries to efficiently develop innovation and sustainability within the Arctic Region.



It highlights the cooperation between circumpolar research institutions that are endorsed by Sustained Arctic Observing Network on the Arctic Data Interface project that will service research entities, policy makers, stakeholders and general public in their strive for sustainable development of the Arctic Region.