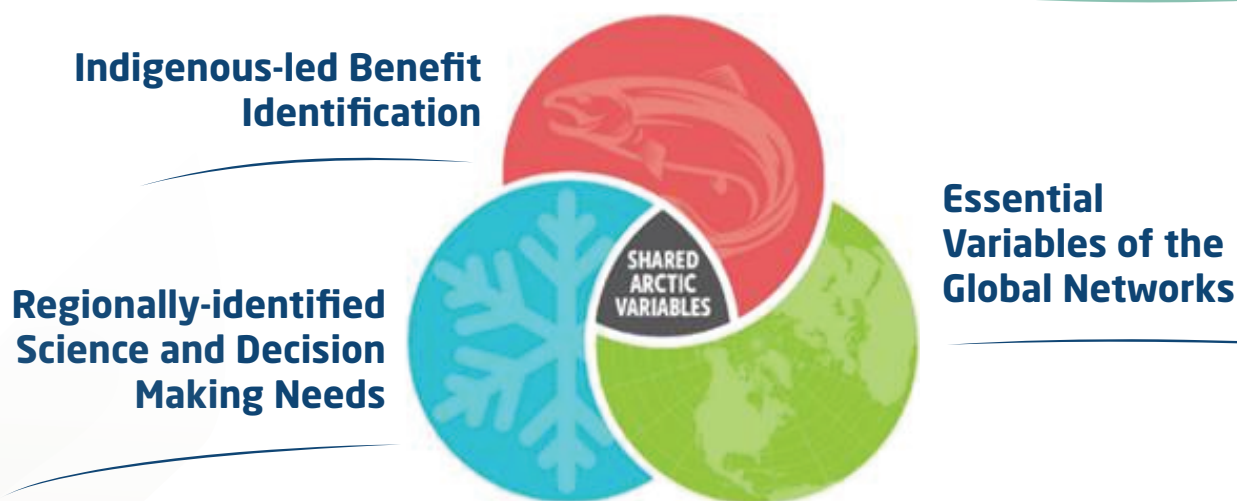


Improving Wildfire Observations in the Arctic: Shared Variables for Informed Action



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Shared Arctic Variables (SAVs) are sets of observations with a broadly shared benefit that also consider the needs of Indigenous Peoples. SAVs for Arctic - related wildfires are needed to help deal with the wildfire phenomenon in the Arctic environment. People working with wildfires in different fields are included in the process.



Indigenous Peoples, reindeer herders, hunters, rescue services, hikers and other people living and working in nature can make observations to identify the areas that are prone to wildfire.



Recommendations

- Local observations of terrain moisture collected with a mobile application can be used to refine satellite soil moisture data and help to identify areas that are prone to wildfires.
- Identification of areas prone to fires could tag false alarms and improve rescue service application of fire and smoke propagation predictions.
- Including local observations on vegetation and soil moisture could be expanded to the whole Arctic.
- Ignition Identification can help local and global interests.
- Local observations are needed until machine learning and more satellites become available.

