



# THE SIKU PROJECT

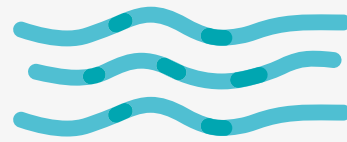
# THE ARCTIC NEEDS MORE ICE!



THE ARCTIC IS LOSING ICE DUE TO CLIMATE CHANGE!

## THE SHRINKING ICE CAUSES PROBLEMS TO:

### OCEAN CURRENTS



Ocean currents like the Gulf Stream have a large impact on Earth's climate.

Extra freshwater from melting sea ice could disrupt the normal circulation of the currents and drastically alter our climate!

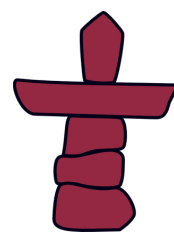
### WILDLIFE



Many marine animals migrate to the Arctic to feed. **Seals and walrus** need sea ice to **rest and breed**, and important top predators like **polar bears** also need it to be able to hunt.

Less ice means a more difficult life for polar animals!

### INDIGENOUS PEOPLE



"As sea ice disappears, this removes a highway on which locals can ride their snowmobiles and dog sleds to hunt and visit friends. Disappearing ice means increasing fragmentation of communities and limits the ability of people to hunt."

- Okalik Egeesiak, chair of the Inuit Circumpolar Council

## SO... WE NEED TO MAKE MORE ICE!



The Siku Project is designing machines to pump water from under the ice up on top of it, where it'll freeze.

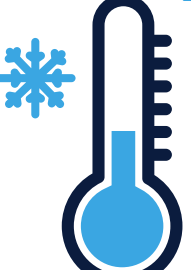
The machines will need to be moved to wherever the ice is thin.



The Arctic is huge, so we'd need to have a lot of machines and be able to move them quickly!



**ABLE TO DEAL WITH THE ARCTIC CLIMATE**



- Wind speeds from 5 mph to hurricane level
- Temperatures +10 to -50 C
- Light levels: Polar night to midnight sun

**SMALL & PORTABLE**

So they can be towed behind a snowmobile & moved quickly



**EQUIPPED WITH A SHELTER**

So maintenance and repairs can be carried out safely



**ABLE TO FLOAT**

So they can be towed behind a boat and won't sink in the summer!



**THE MACHINES NEED TO BE...**



**A BUSINESS FOR INDIGENOUS PEOPLE**

- The machines need to be repaired, monitored and moved
- This economic opportunity can create jobs, improve education, develop skills & help communities
- In the summer a machine shelter could be used as an inside workshop space with its own electricity generator and battery charging point!



## FIND OUT MORE ABOUT THE SIKU PROJECT:



[sikuproject.org](http://sikuproject.org)



[info@sikuproject.org](mailto:info@sikuproject.org)



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