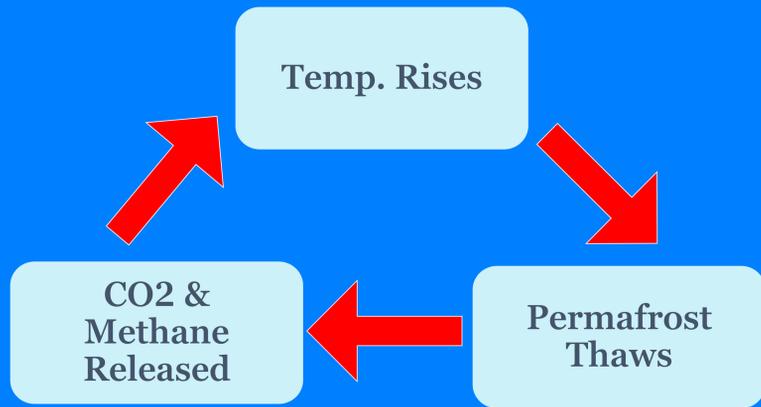


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GOAL: To understand how melting permafrost in Siberia affects communities and formulate ways to mitigate the issue, while also raising awareness of the situation

The Problem
 Regions in Siberia, permafrost thaws at a much faster rate than other parts of the world, which has severe impacts on several aspects of life.



The Native people of the region are the Nenets people. They live a more hunter-gatherer like lifestyle with a main stake in reindeer herding.



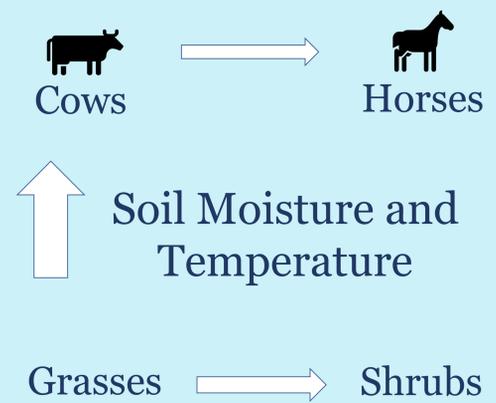
Yamal Peninsula, Siberia

The region has a quarter of the world's natural gas reserve, a liquid natural gas port, and a railway that goes through the peninsula.

Impacts on Infrastructure

- 65%** of Siberian land is covered in permafrost
- 75%** of structures are damaged by 2050
- 3.6 Million** people affected by structural failures caused by permafrost thawing

Impacts on Food



Soil Moisture and Temperature

Cows → Horses

Grasses → Shrubs

Impacts on Health

- 1.5 Million** reindeers have been killed by anthrax
- 20** people infected in 2016 from an anthrax outbreak

Potential Solutions

- Hazard maps to monitor areas for potential problems
- Ventilated air spaces through small openings in foundation

Potential Solutions

- Reforestation to trap greenhouse gases
- Planting more sustainable crops

Potential Solutions

- Informing communities on disease prevention
- In the case of an outbreak, setting up epicenters and targeting the specific illness

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