

# PERMAFROST: THE NEGLECTED THREAT

Permafrost is ground that remains below zero degrees for two or more consecutive years<sup>[1]</sup>

In the Arctic, climate change has increased the rate of permafrost thaw and ground ice melt<sup>[1]</sup>

As a result, the land above permafrost subsides or changes in shape, impacting infrastructural stability, a vital component of the Arctic landscape<sup>[1]</sup>



Needs to be accounted for when discussing climate action, as

# 50%

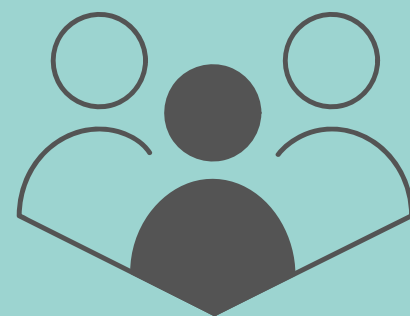
of Canada's landscape is covered by permafrost<sup>[2]</sup>

Permafrost thaw can cost the global economy up to

# \$67 Trillion

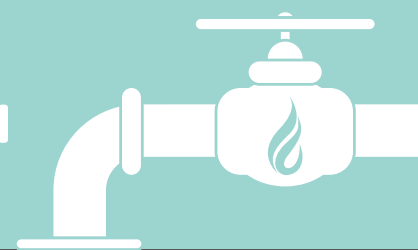
in damage with current levels of mitigation<sup>[3]</sup>

## PERMAFROST THAW IS THREATENING THE SAFETY AND SECURITY OF NORTHERN CANADIAN COMMUNITIES<sup>[1]</sup>



AN ISLAND OFF THE COAST OF YUKON LOSES AS MUCH AS A METRE OF LAND OFF ITS COAST PER DAY DUE TO EXPOSED PERMAFROST<sup>[4]</sup>

IN IQALUIT, SEWER PIPES ARE CRACKING FROM GROUND SHIFTS COSTING THE CITY HUNDREDS OF THOUSANDS IN REPAIR<sup>[1]</sup>



THE GROUND UNDER A MAJOR HIGHWAY IN YUKON IS CRACKING, REQUIRING THE GOVERNMENT TO PAY \$30,000/KM ANNUALLY TO FIX<sup>[5]</sup>

CHUNKS OF SOIL AND ICE ARE FALLING OFF THE COASTLINE OF AN ISLAND IN N.W.T, COSTING THE COMMUNITY, OF 950, MILLIONS AS THEY URGENTLY RELOCATE INLAND



### REFERENCES

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