

## Our Vision

IRRAGEL's mission is to reshape habitability on Mars by modifying its current conditions. By using aerogel, it can block harmful UV lights and melt polar ice caps to make habitable temperature for humans by 2025.

## Aerogel

Aerogel is the world's lightest nanomaterial ever created being 99% air by volume. It's a great insulator as it traps heat and its tiny pores prevent particles from moving through the material.

## Approach

IRRAGEL aims to expedite Mars by undergoing three major phases. Current plans on making Mars become habitable will take hundreds of years. By first targeting smaller markets and scaling up, it will help with funding as aerogel is normally expensive. Aerogel can help harness greenhouse gas effects by trapping heat and allowing visible light to pass through while preventing harmful ultraviolet and infrared waves from penetrating the nanomaterial.

## Phases



### Niche Market Penetration

Introducing and testing the technology to implement aerogel insulation in refrigeration and the military



### Scaling

Targeting a bigger market and implementing aerogel insulation in the windows market



### Mars

Focusing on melting ice and using aerogel to create a habitable temperature for humans

## Our Team



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