## TERRAFORMING THE MARTIAN ATMOSPHERE?



One of the challenges of terraforming Mars is to increase its atmospheric pressure, which is currently less than 1% that of Earth.



Clathrates 0.5%



Polar caps 0.6%

Area represents % of greenhouse gases required for Earth-like atmosphere



The Martian polar caps, minerals, and soil could all provide sources of carbon dioxide and water to thicken the atmosphere.



Minerals 1.2%



Unfortunately, processing all sources available on Mars would only increase the pressure to about 7% that of Earth, far short of what is needed.





Combined sources 6.9%



Earth-like 100%