

# TRANSCENDENCE:

the act of rising to a superior state





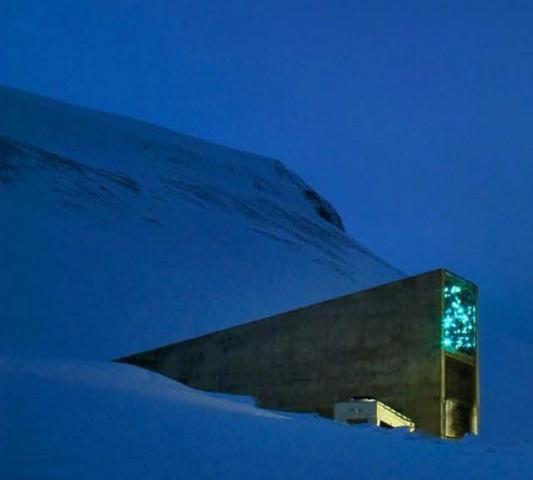


#### TRANSCENDENCE... A life boat

Colonization of space can provide the ultimate protection against human extinction. Until we achieve this, prudence requires we strategically place "life boats" for humanity.

Transcendence is one such life boat - a lunar seed bank for the long-term storage of crop seeds. It will provide us the ability to transcend Earth bound biodiversity and crop disasters.

# Current crop protection efforts



Global Crop Trust has done tremendous work building a robust system to preserve global crop diversity.

Efforts include crop conservation, gene banks, seed banks, and funding a supporting endowment.



Terrestrial storage solutions continue to be exposed to Earth bound disasters.

Over a long enough time-line these seed banks are likely to encounter:

- War
- Terrorism or sabotage
- Natural or man-made disaster

Off Earth seed banks can provide virtually infinite separation from these threats.

#### Beyond Earth

Transcendence will expand on the work Crop Trust has already done on Earth by placing seed vaults on the Moon.

After establishing lunar seed banks, we can look towards placing vaults throughout the Solar System to provide further protection until we colonize.

Colonization Solar System Vaults Lunar Seed Vault Space Earth Svalbard current efforts Seed Vault Trust International Crop Collection **Domestic Collection Crop Conservation** 

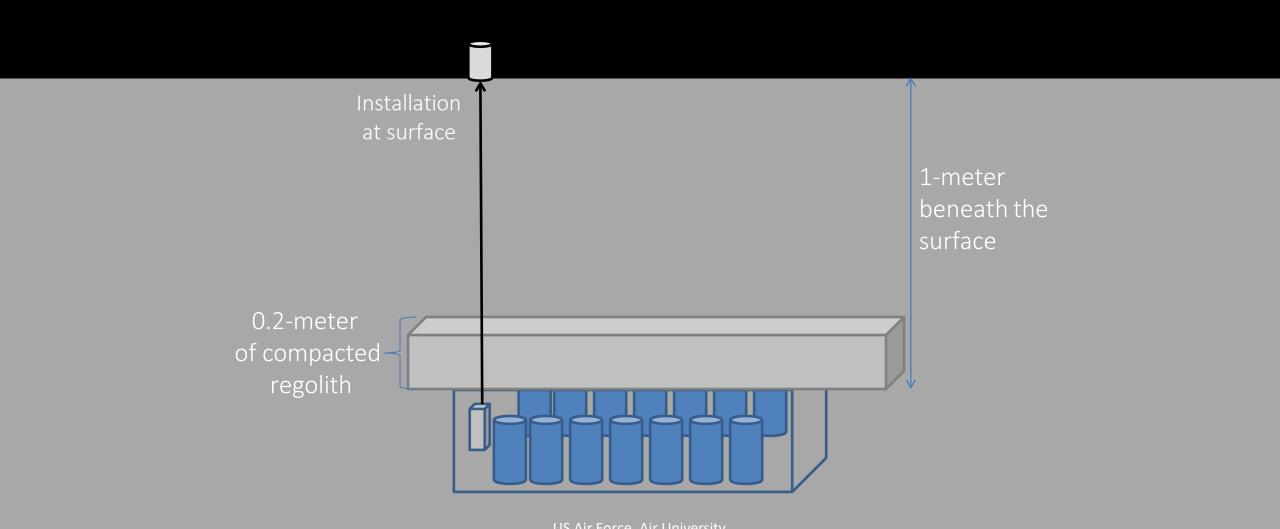
#### TRANSCENDENCE Lunar seed vault

The temperature one meter below the lunar surface is ideal for seed storage.

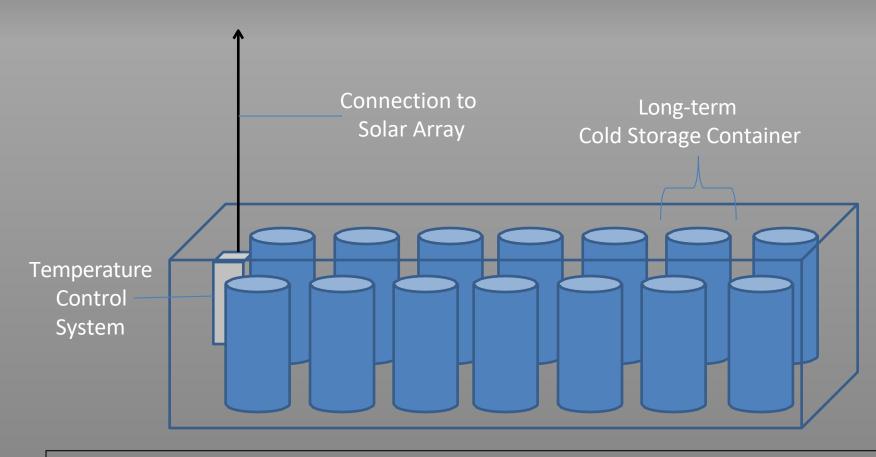
Robotic rovers can be flown to the Moon and used to stage the seeds and support equipment.

Support equipment could be solar powered or possibly harness "Moon tremors" for power.

# Seed vault placement



### Seed vault module concept



Seed modules will be assembled, loaded and sealed on Earth and delivered to the Moon

# TRANSCENDENCE project formation

The Transcendence project is in the earliest stages, but is moving rapidly. Air University is currently searching for partners to make this vision a reality.

We aim to have gathered the core partners, establish the custodial organization, and publish the project roadmap.

Follow on activities will include a global system design challenge, construction, and launch.

