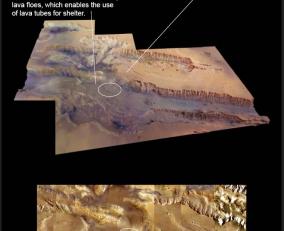
Mars Colony **The Virgi Villages** Meredith DeLong, Hallie Chuba, Daniel Stepanek, Brenden Erickson

Project Recap

Possible that crater was created by

Communications towers can sit outside of crater, ensuring more stable connection to Earth

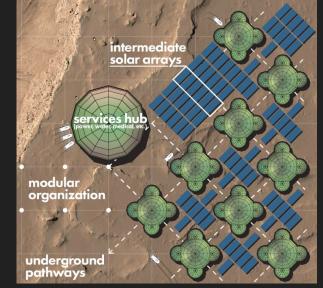




Site - Melas Labes in Valles Marineris



Precedent -TERA by AI SpaceFactory



Our Design - A modular colony of smaller, self-sufficient houses interconnected with larger common areas

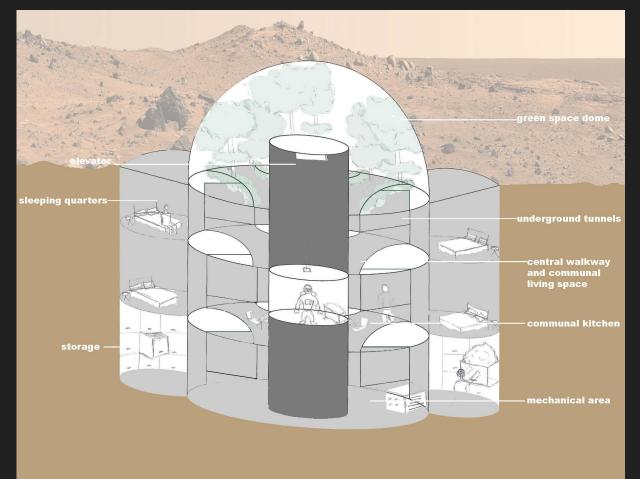
Section Drawing

-continued with original layered design

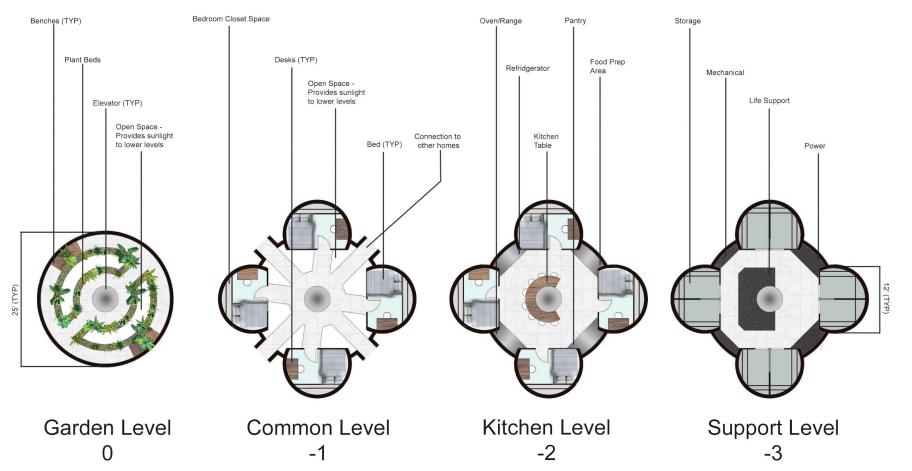
-central cylinder flanked by four smaller cylinders

-only portion above ground is the green dome

-central walkways allow for light and air circulation from top to bottom



Plan Drawing



Exterior Render

View of the colony from the canyon.

Surrounding cliffs Lower altitude = denser atmosphere More protection from radiation.

> Solar panels Staggered around colony where needed. Bigger systems will be in place when colony reaches larger population.

Connecting Tunnels Tunnels are buried 8 feet deep to ensure quality protection from radiation.

3D printed shell Regolith based shell is harvested on site and printed before windows are added.

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Electrical Grid Only a few modules have connections to the solar panels, they will connect the rest of the neighboring colonies.

1-1





Questions?