

Technology and infrastructure typologies that have emerged from contributions to the Call for Ideas. Please note that these typologies are in no particular order.

Technology & Infrastructure Typologies
1a. Small Rovers (from micro to modular/reconfig rovers, ≤ 100 kg)
1b. Multi-rover systems (Swarm)
1c. Large rovers (> 100 kg)
2a. Mobility Drones
2b. Mobility Hoppers (e.g. ballistic, propulsive)
2c. Mobility GNC for landers/hoppers/drones
2d. Mobility non-wheeled (inc. swarm)
3a. ISRU oxygen production, purification / water
3b. ISRU construction
3c. ISRU energy storage
3d. ISRU food production
3e. ISRU oxygen: refuelling
4a. Deployable structure for ISRU thermal shield
4b. Habitat (deployable, modular, radiation)
5a. Subsurface exploration
5b. Subsurface exploration: penetrators
6a. Cave exploration (excl. drones)
7. Robotic arm for science/ISRU/logistics
8a. Power Plant (Solar, Fuel Cells, Radioisotope, Nuclear)
8b. Power transfer for Night Survival
9. Small payload accommodation
10a. Life-support: closed-loop food production
10b. Life-support: greenhouse
11. Sample Return
12. Environmental Monitoring Stations
13. Payload Suite for Outreach
14. Vehicle for deployment of probes
15. Solar Panel Dust Mitigation
16. Communications
17. Radiation shielding & monitoring

