Space Technologies

By Christopher Welch and Alex Harris

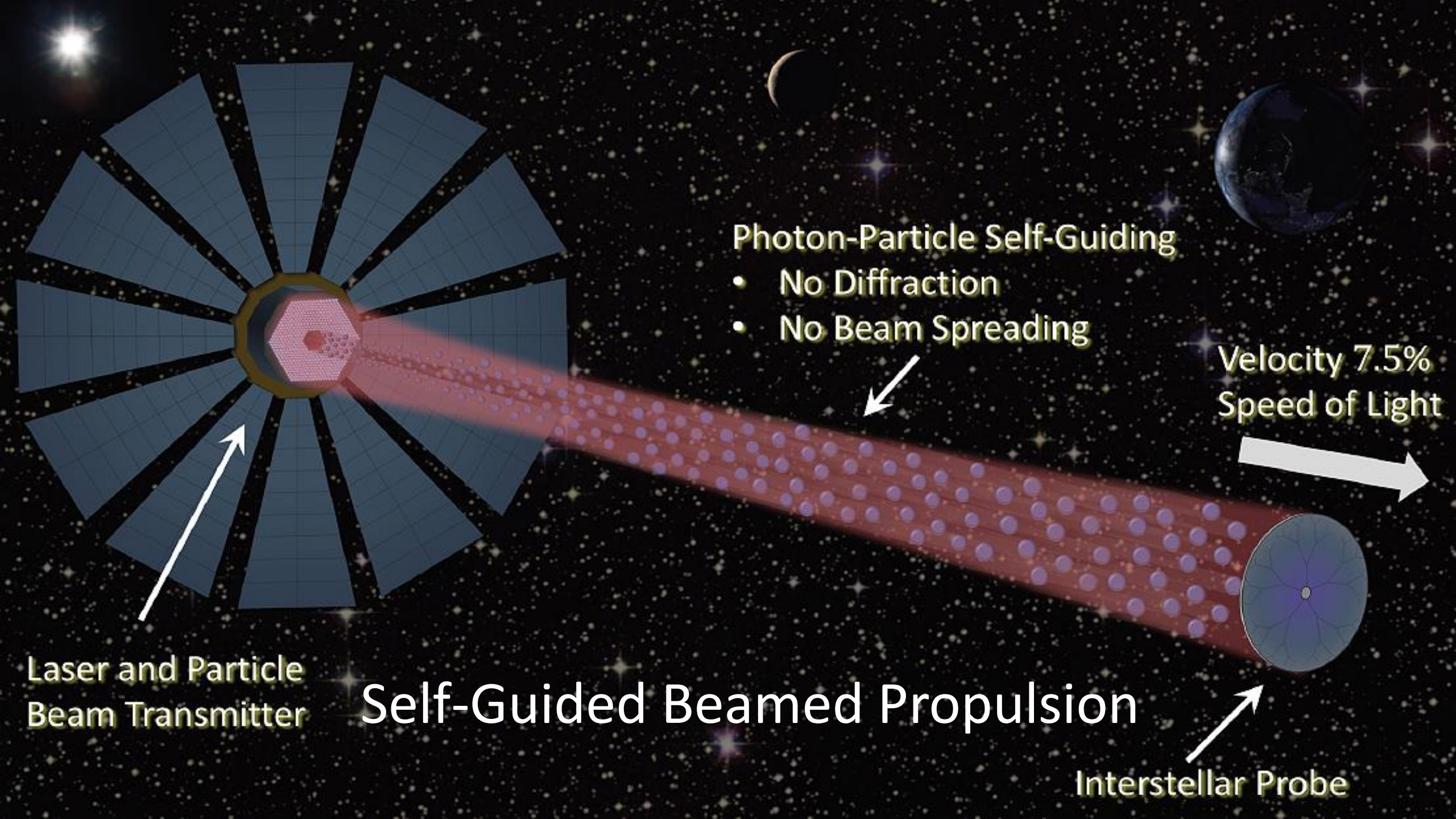
Exploratory Technologies

- FIND RESOURCES
- NEW HOME PLANET
- SUPPLEMENTARY TECHNOLOGY
- MEASURE FROM DIFFERENT PERSPECTIVES

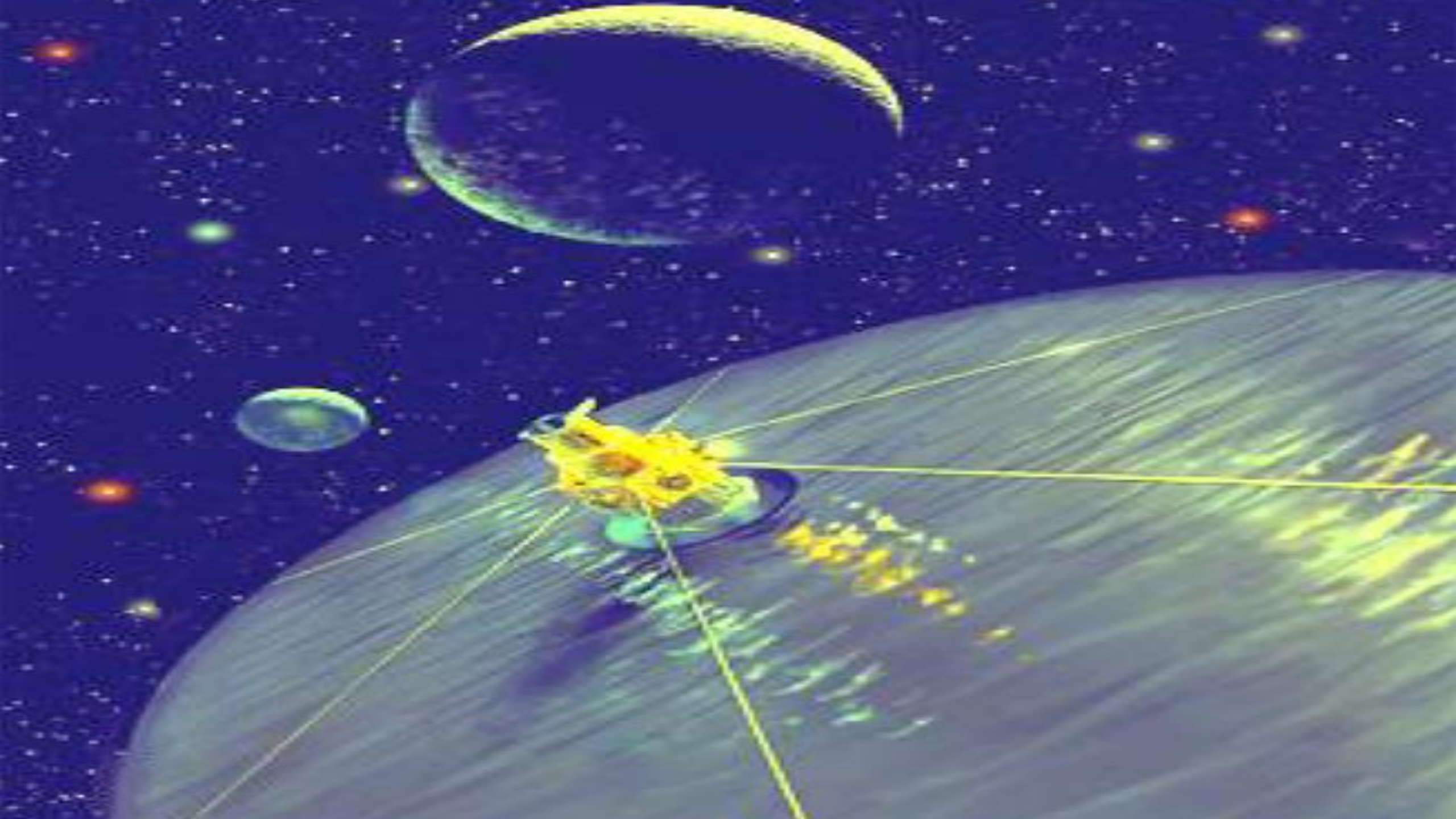
BREEZE


THE
MOST


SPEAR



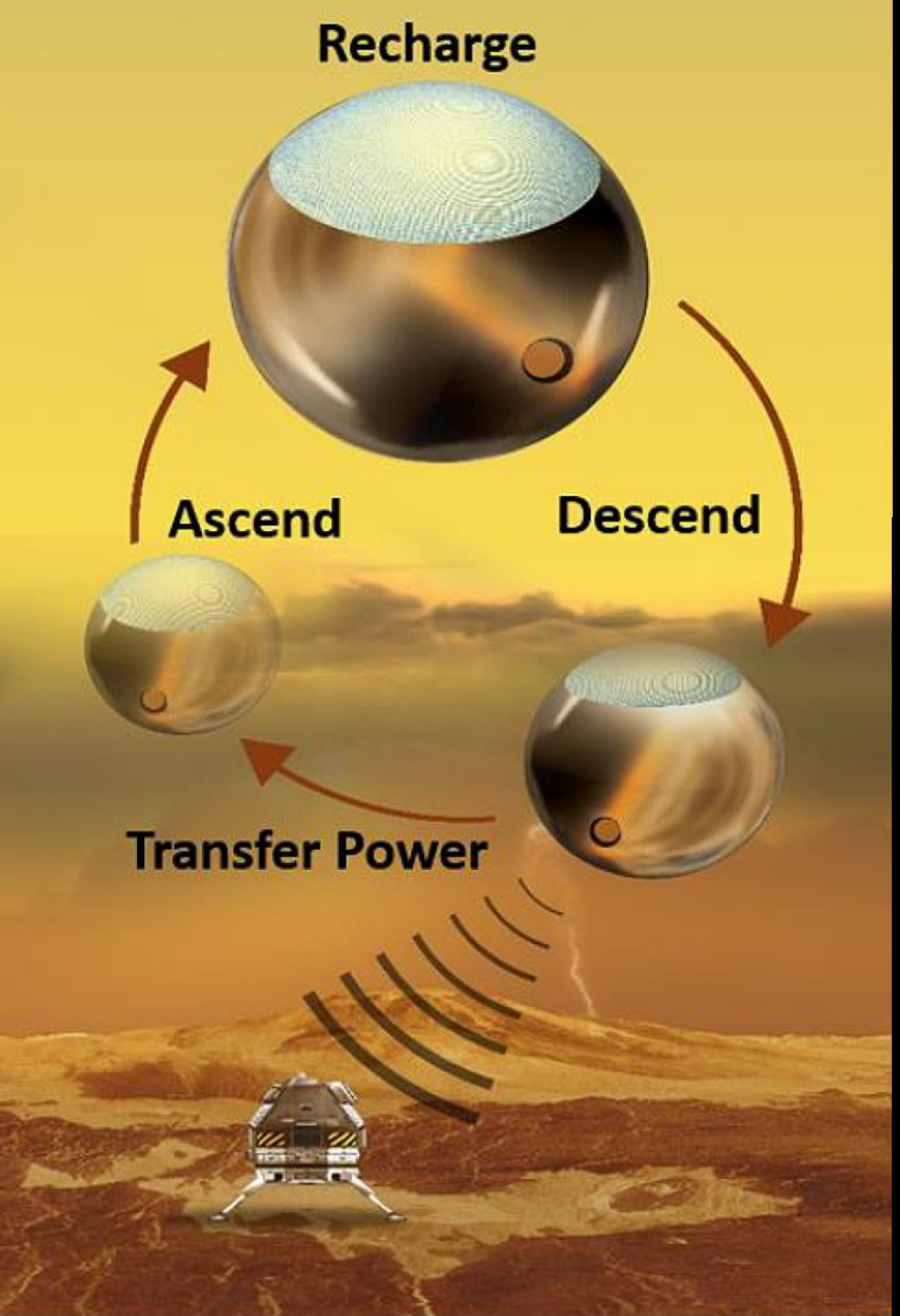
Self-Guided Beamed Propulsion



Colonization Technologies

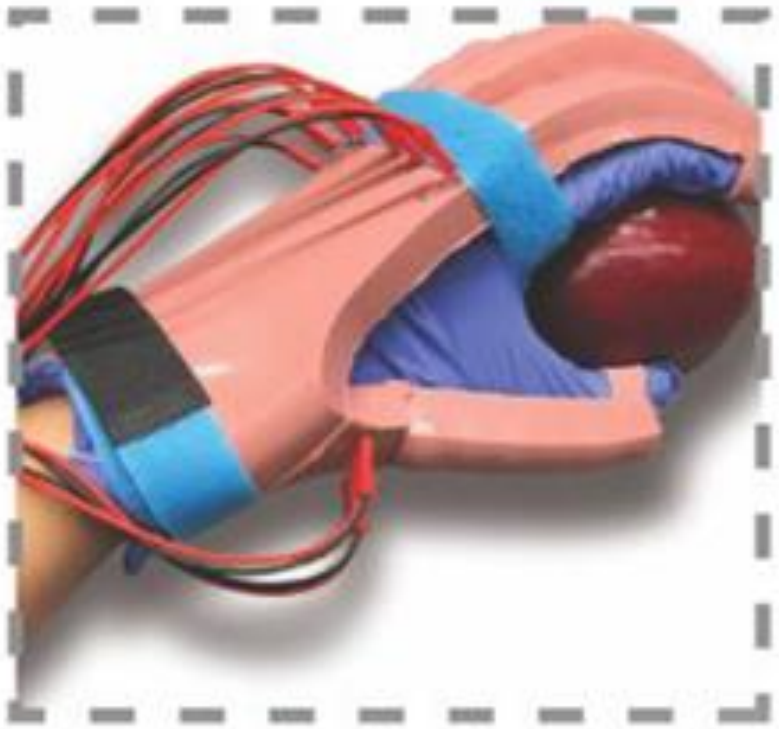
Providing Energy / Advanced PPE

Collecting Resources / Protecting a Civilization



Power Beaming for Long Life Venus Surface Missions

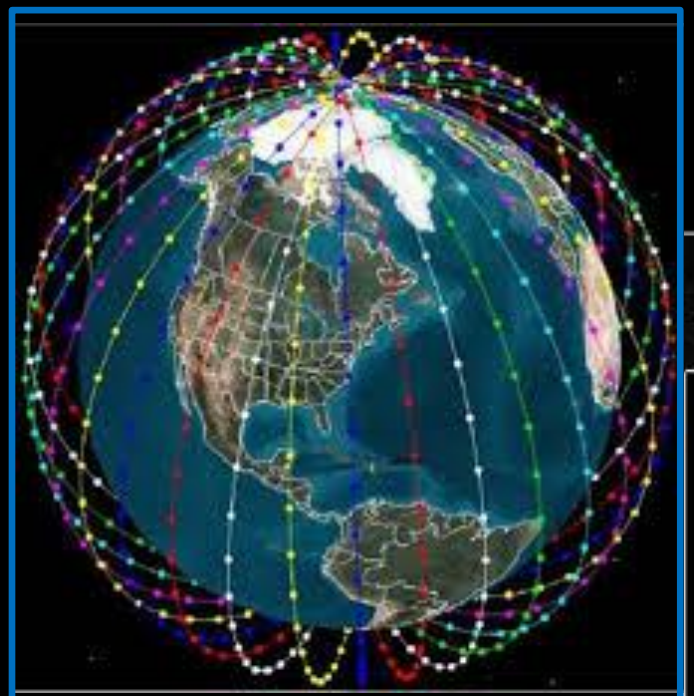
Diffractive LightSails



SmartSuit

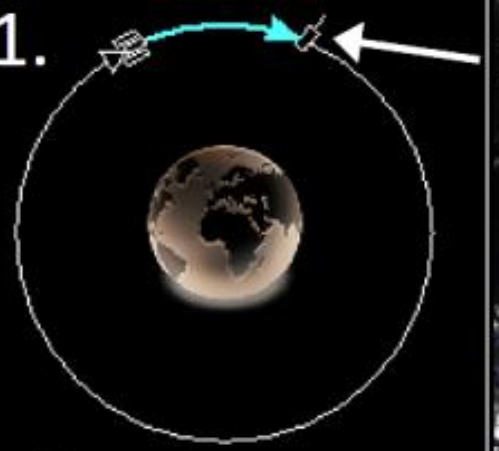
for Mars Missions

CHARON



^ Parabolic Arc of ^
Space Debris

1.



Rendezvous

1MT satellite
@950 km. alt.

EP
thruster

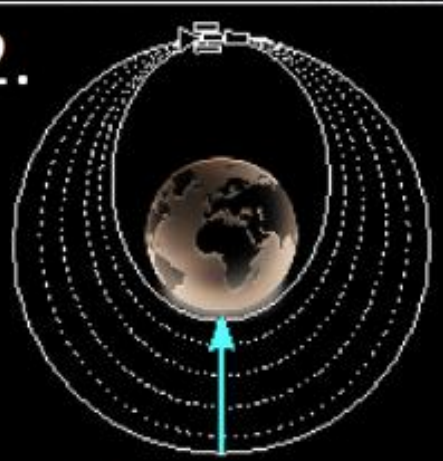
compressor

Solar
Panels
(5 kW)

storage
tank

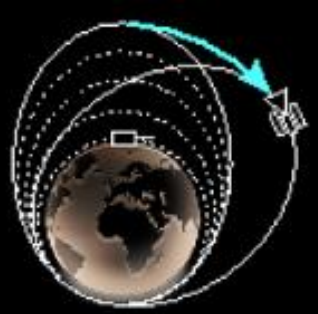
tapered
"honeycomb"
scoop
(R = 1.8m)

2.



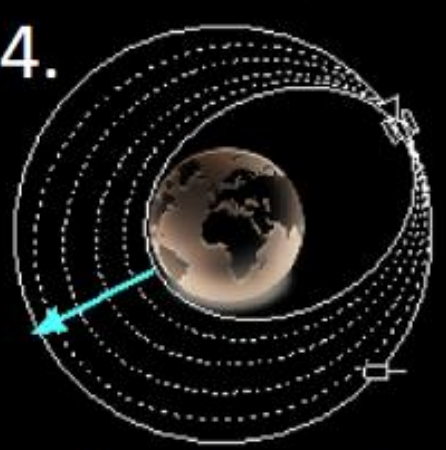
Walk-in

3.



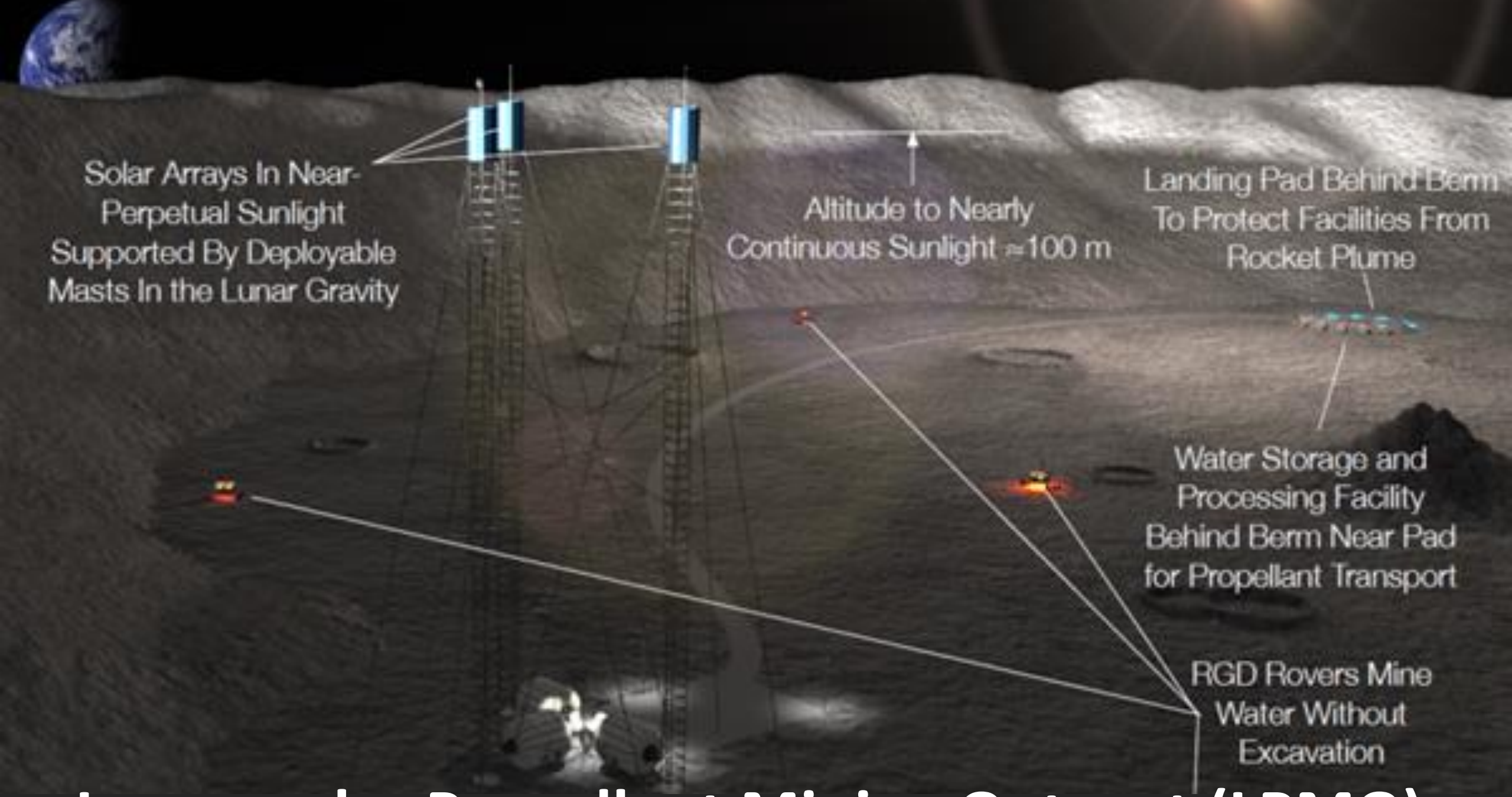
Refuel
&
Reorient

4.



Walk-out

Crosscutting High Apogee Refueling Orbital Navigator



Lunar-polar Propellant Mining Outpost (LPMO)

Thermal Mining of Ices on Cold Solar System Bodies

From Space Stations to Colonies on other Planets….

Both Pictures are Concept Art from NASA