



Martian Surface

Mars Atmosphere

Mars Eccentric
Parking Orbit

MTO

Trans-MEO
Ap: 13 000 km

LEO



Earth Surface

Laser-Thermal
Propulsion System

Payload
(+ Propellant)

Trans-Mars
injection

LTP System
Return burn

Payload
separation

Awaiting refuel
and next payload

Mars Aerocapture

Landing or orbit
insertion possible

- Chemical Burn
- Laser-Thermal Burn
- Aerobraking
- Coasting

10 m, 100 MW
Phased-array laser

