

The 1952 Roadmap of von Braun, Ley, and Bonestell

Total available payload in circum-Martian orbit approx. 600 t

Total available payload on Mars' surface 149 t

Next stages of the QSE Roadmap:

- Detailed quantum design studies
- Unify the strategic objectives
- Build a strong sponsor federation

Required number of ferry flights 950

Required time on ferrying operation approx. 8 months

Propellant cost for ferrying operation approx. 500 million dollars