ecodesign

→ REDUCING IMPACTS

cleansat

→ SPACE DEBRIS REDUCTION

e.deorbit

→ ACTIVE DEBRIS REMOVAL

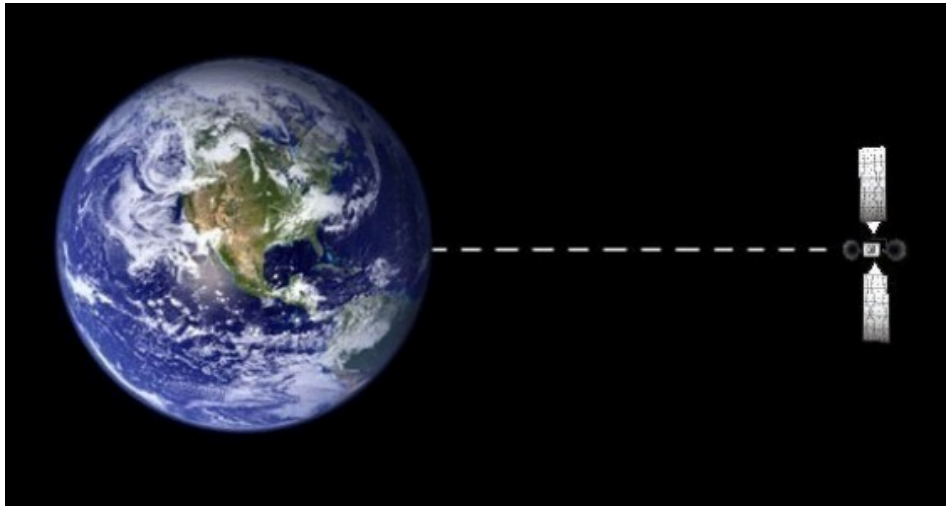
Re^3
Refuel & Refurbish Reference

Von Michael Derflinger & Fabian Kresse

GEO Orbit

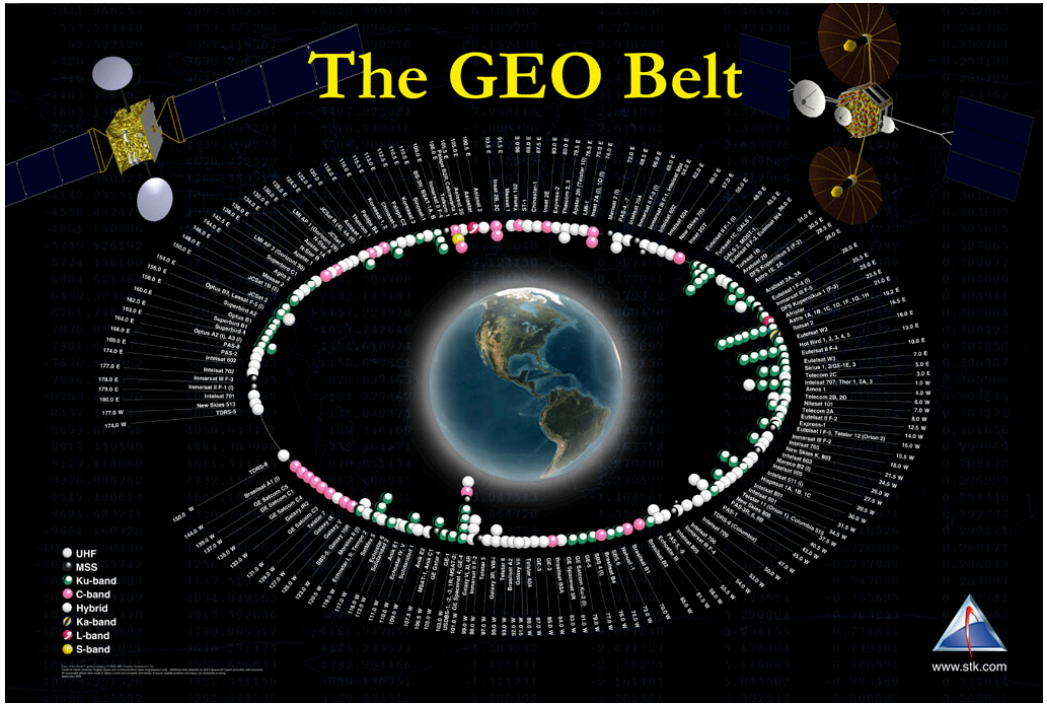
- expensive satellites
- limited resource

- **fuel == lifetime**



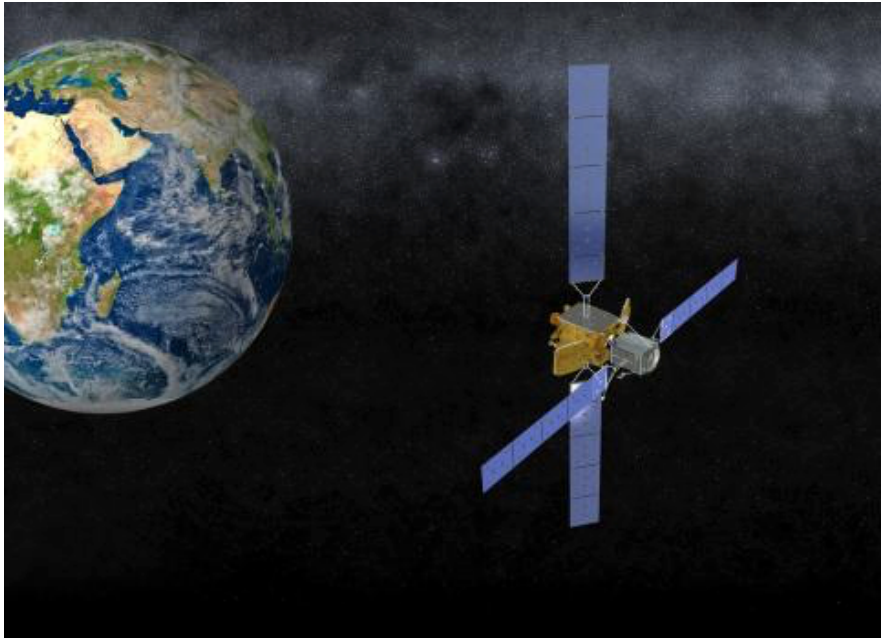
Financing

- +1 year ~$100M
- similar mission $50M
- +$3 Billion Market



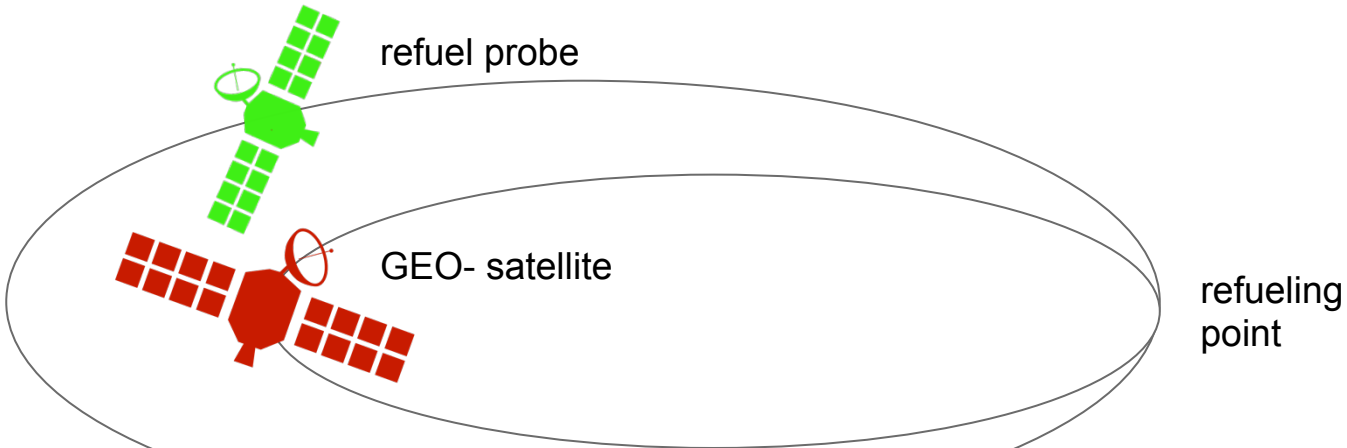
Re¹: Phase 1

- Fueltank
  - modular & extendable
- refuel-Probe
- current technology
- existing contract



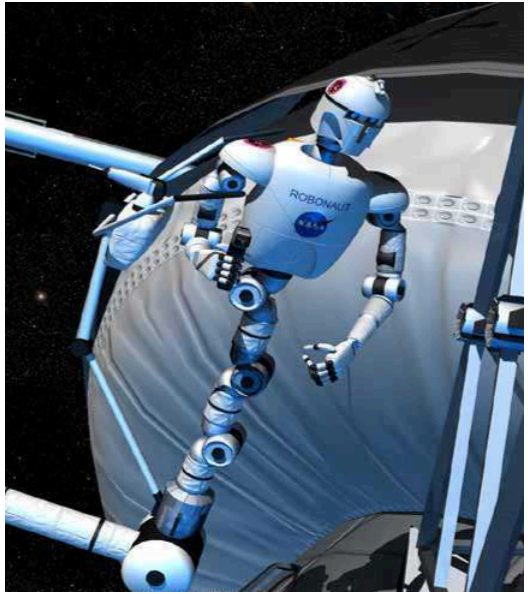
Refuel Probe

- phasing orbit
- low fuel consumption



Re²: Phase 2

- extending fueltank
  - refurbish capability
  - VR operation endeffector
- tow-Probe
- modular costumer satellite design



Re^3: Phase 3

- modular satellite design
  - e.g. swap of transmitter
- decommissioned satellites
  - lunar fuel (CH_4) powered probe
- additional stations

Sustainable concept

Expandable to orbital decommission depot

Market waiting to be delivered

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