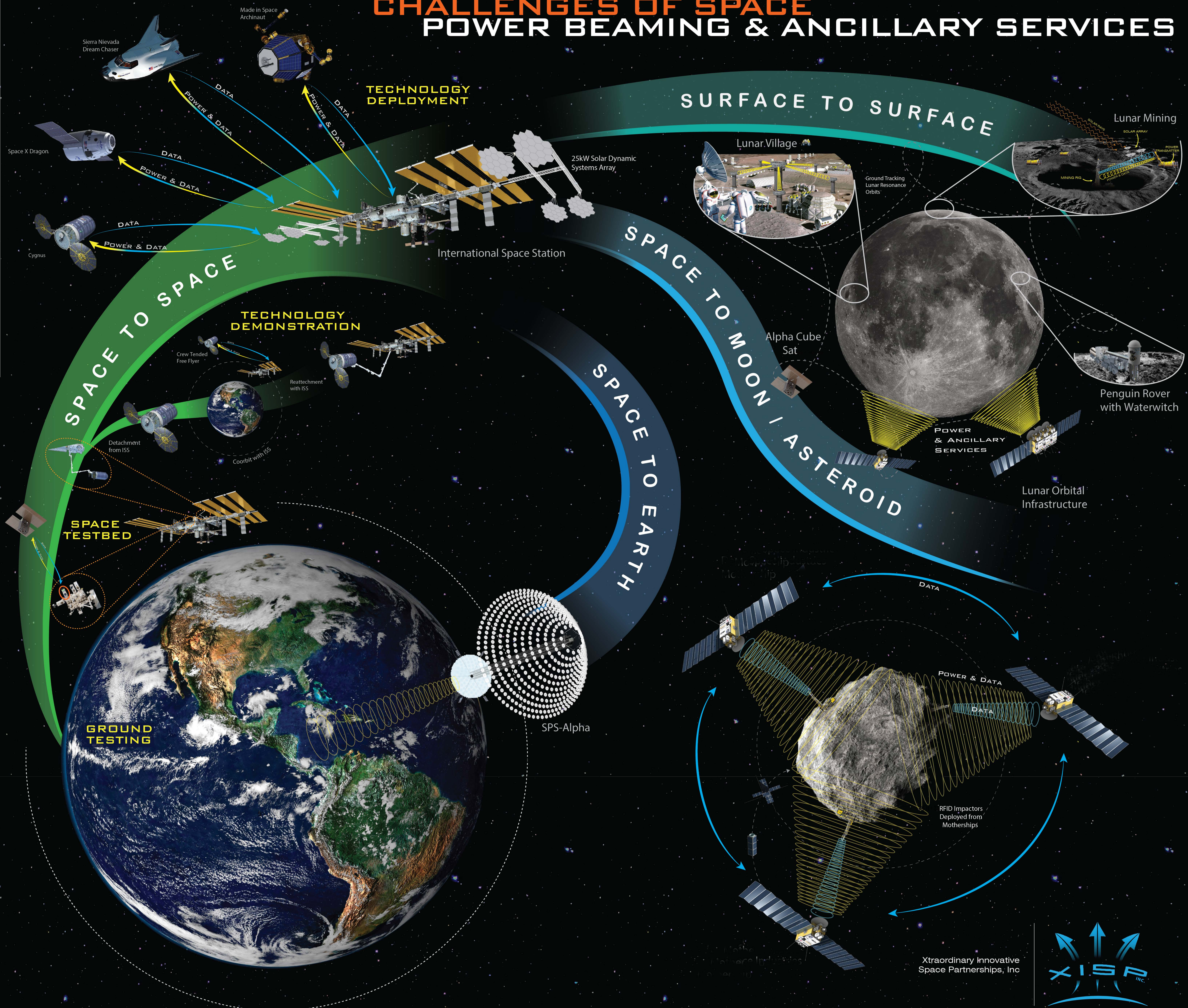


# CHALLENGES OF SPACE POWER BEAMING & ANCILLARY SERVICES



## GROUND TESTING

- Cognitive SDR Transceiver
- Converged Electro/Optics
- W Band & Optical Apertures
- Piecewise Efficiency
- Reflectarray Rectenna
- Beam Forming
- Mgmt Operations Control Applications

## SPACE TESTBED

- ISS Mounted Transceiver
- Deployable Rectenna
- 6U Flight Test Article
- Optimized frequencies
- End-to-end Efficiency
- Scaling/Modularity
- Multiplexing Ancillary Services

## TECHNOLOGY DEMONSTRATION

- ISS Co-orbiting Crew-tended Free-flyer
- Propulsion Augment Demo
- Space Based Propellant Depot Ops Demo
- Disaggregated Formation Flying Spacecraft Demo
- Plug-in/Plug-out Tech Demo
- ISS Solar Dynamic Power Augment

## TECHNOLOGY DEPLOYMENT

- Power & Ancillary Services Beaming Interface Kit(s)
- Dispatchable Power & Ancillary Services
- Cislunar Propulsion Services
- Kilowatt Scale Power & Ancillary Services
- Megawatt Scale Power & Ancillary Services
- Gigawatt Scale Power & Ancillary Services

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