Space Traffic Management Conference

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**Precision Orbital Placement Services**

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CURRENT PROBLEMS

1) Limited orbit and inclination options for small spacecraft
2) Long wait times and limited launch opportunities for small spacecraft
3) Currently too expensive to offer satellite servicing and orbital tug services for orbiting spacecraft

CURRENT SERVICING AND LAUNCH OPTIONS

1) Spaceflight Industries
   - Limited Inclinations
2) GEO Gov. Satellites Only
   - Limited Fuel
3) Small-Sat Propulsion
   - Limited Altitude/Payload

OUR SOLUTIONS

1) Reusable vehicle providing precision orbital placement services for multiple small satellites per launch
2) Offer secondary orbital tug and satellite servicing capabilities with the same vehicle once in orbit
3) Use our precision orbital placement services to cover launch costs and scalability so we can offer the most affordable satellite servicing and tug services to industry

OUR SERVICES

- Precision Orbital Placement
- Orbital Tug Services
- Orbital Servicing
- Multiple customers per mission
- Specific Inclinations
- Specific Orbits
- Reusable
- In-orbit resupply
- >10yr lifespan
- Altitude Boosting
- Inclination Changing
- Relocation
- Debris Mitigation
- Asteroid Mining
- Visual Inspection
- >10yr lifespan
- Repair
- Maintenance
- Refueling
- In-orbit construction
- In-orbit demolition
- Debris Mitigation
- Debris Mitigation
- >10yr lifespan

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Historical Nano/Microsatellites Launched: 2000 - 2015 (1 - 50 kg)

- Continued popularity in the 1-10 kg mass range

Nano/Microsatellite Launch History and Forecast (1 - 50 kg)

- Projections based on announced and future plans of developers and programs indicate as many as 3,000 nano/microsatellites will require a launch from 2016 through 2022

With over 40% average annual growth in attempted deliveries since 2012 the nanosatellite (1-10 kg) market continues to attract both government and commercial interest.