Intelsat 28

- $250 million for Intelsat and Convergence partners
- Lost $310.2 million
- Intended replacement of Galaxy 11
“If something happens to an asset, we want to be able to attribute it.”

Col. Cothren, USAF
AMODS
AMODS
Autonomous Mobile On-orbit Diagnostic System
RSat
Timeline

<table>
<thead>
<tr>
<th>Summer 2015</th>
<th>Spring 2017</th>
<th>Summer 2017</th>
<th>Fall 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRICSat-P</td>
<td>BRICSat-D</td>
<td>BRICSat-T</td>
<td>MBSE</td>
</tr>
<tr>
<td>NRO</td>
<td>STP2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>RSat-P</td>
<td>BRICSat-T</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>RSat-D</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>NASA ELaNa</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>UNP</td>
</tr>
</tbody>
</table>
MBSE (Pathfinder)

- **Delivery:** Spring 2018
- **Launch:** Spring 2019
- **Mission:** MBSE is a concept validator that focuses on navigation, propulsion, optimization and basic diagnostics. It aims to confirm the viability of the CubeSat coupling and transport system that will be integral to the efficiencies offered by AMODS.
Current Status
RSat-P (Prototype)

- **Delivery**: February 2017
- **Launch**: June 2017 (ELaNa XIX)
- **Mission**: Demonstrate the feasibility of using CubeSats to diagnose malfunctions or failure in – and perform on orbit repairs on – conventional satellites.
Ground Testing
Motor Accuracy Tests

Positive Direction

Negative Direction
Vibration Testing
Restraint System

Fishing Line

Resistor

Screw

End View

Cross Section
Thermal Testing