Satellite Applications Catapult Future Demonstrator Missions

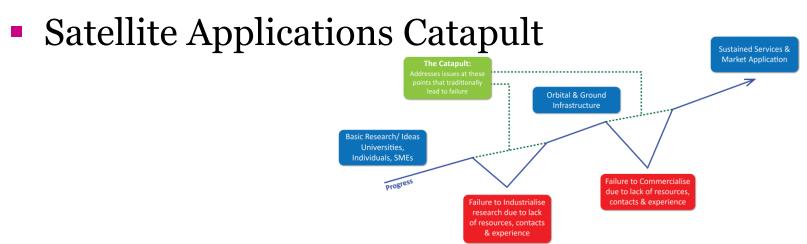
Paul Febvre Chief Technology Officer

25th June 2013



Catapult is a Technology Strategy Board programme

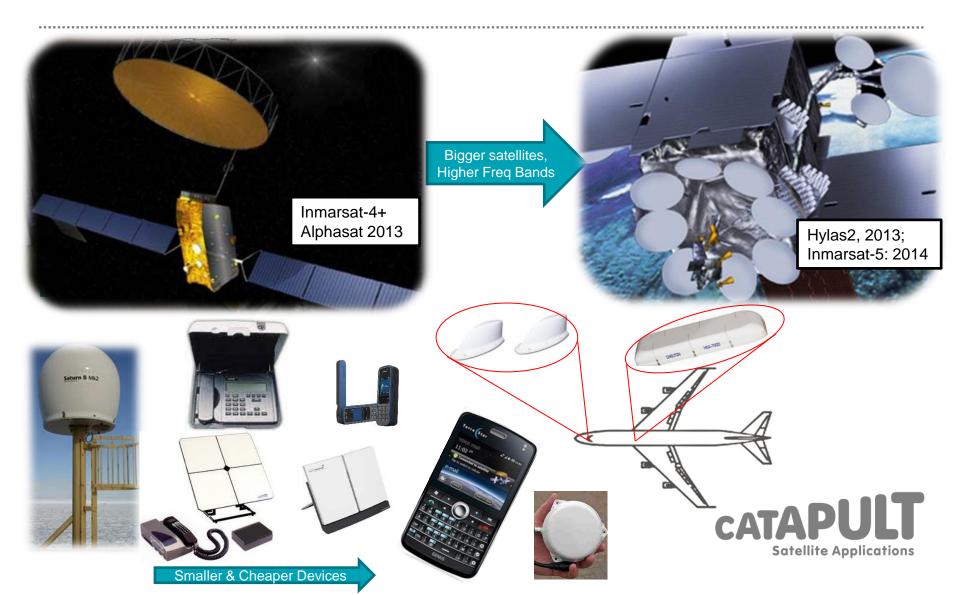




- Objectives for demonstrator missions
 - Respond to market challenges
 - Provide a framework for research and development
 - Deliver a platform for sustained application development
 - Support international collaboration
 - Create opportunities for growth



Technology Trends in GEO Satellite Telecommunications



Example LEO Communications Satellite Constellation

Iridium

- Service launch 1999
- 66 satellites in 6 polar orbits (800km)
- L-band operation (1.6GHz)
- Inter-satellite links to minimise ground infrastructure



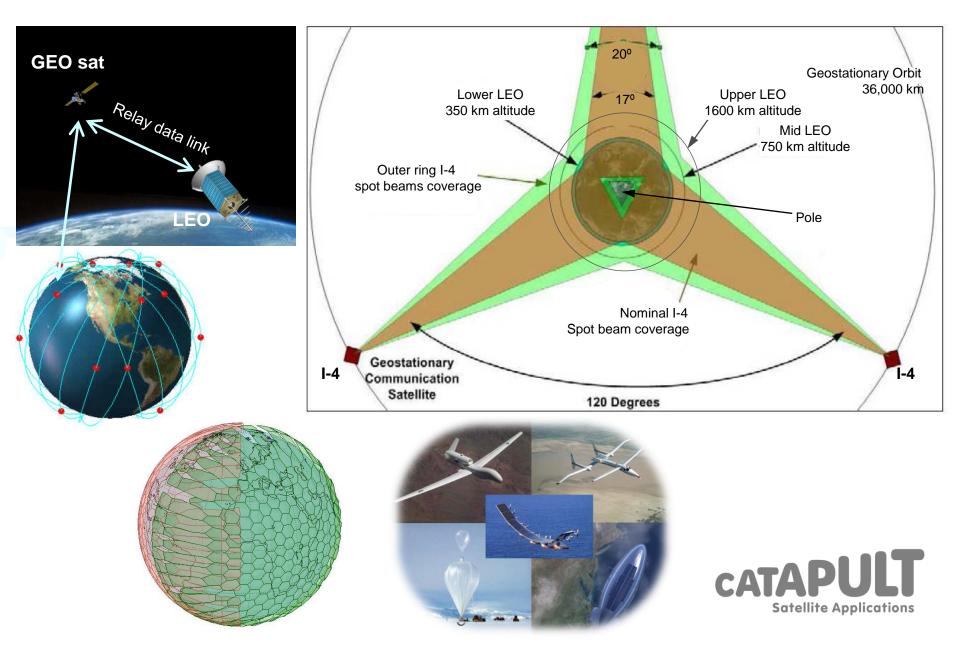








Enhancing the Data Relay Satellite concept



Objectives for the Polar Exploitation Challenge Workshop

- Understand the challenges and opportunities
- Brainstorm potential solutions
- Identify technology gaps and potential for exploitation
- Establish research and development agenda
- Develop networks and potential collaborations

