iLAuNCH

Manufacturing a Space Transportation and Logistics Platform

THE PROBLEM

For the entire history of space flight, we've launched our expensive, technologically advanced satellites into orbit, hoping they will survive for years without the ability for refueling or in-space assistance.

Big agencies such as NASA, ESA, and US Space Force are moving ahead with in-orbit servicing missions to extend life and functionality of assets in space. This project aims to build the infrastructure and servicing network needed to extend the life of the assets and power our future in space.

THE SOLUTION

This project will build and qualify the Optimus Platform, one of the largest commercial spacecrafts in Australia, thus far. Optimus will deliver orbital logistics and refueling for the next generation of space activities.

It also aims to mature test procedures and fixtures at the National Space Test Facility for Optimus.

RESEARCH CAPABILITY

ANU - Institute for Space (InSpace)

- National Space Test Facility.
- The Heavy Ion Accelerator Facility.
- Advanced Instrumentation and Technology Centre.
- Siding Spring Observatory.
- Australian Centre for Space Governance.
- Quantum Optical Ground Station.

PROJECT PARTNERS

Australian National University

SPACE MACHINES COMPANY

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