SMARTSAT
COOPERATIVE RESEARCH CENTRE

Building Australia's Space Industry

USER INFORMED

INDUSTRY DRIVEN

RESEARCH POWERED

Australian Government

Department of Industry, Science, Energy and Resources

Business
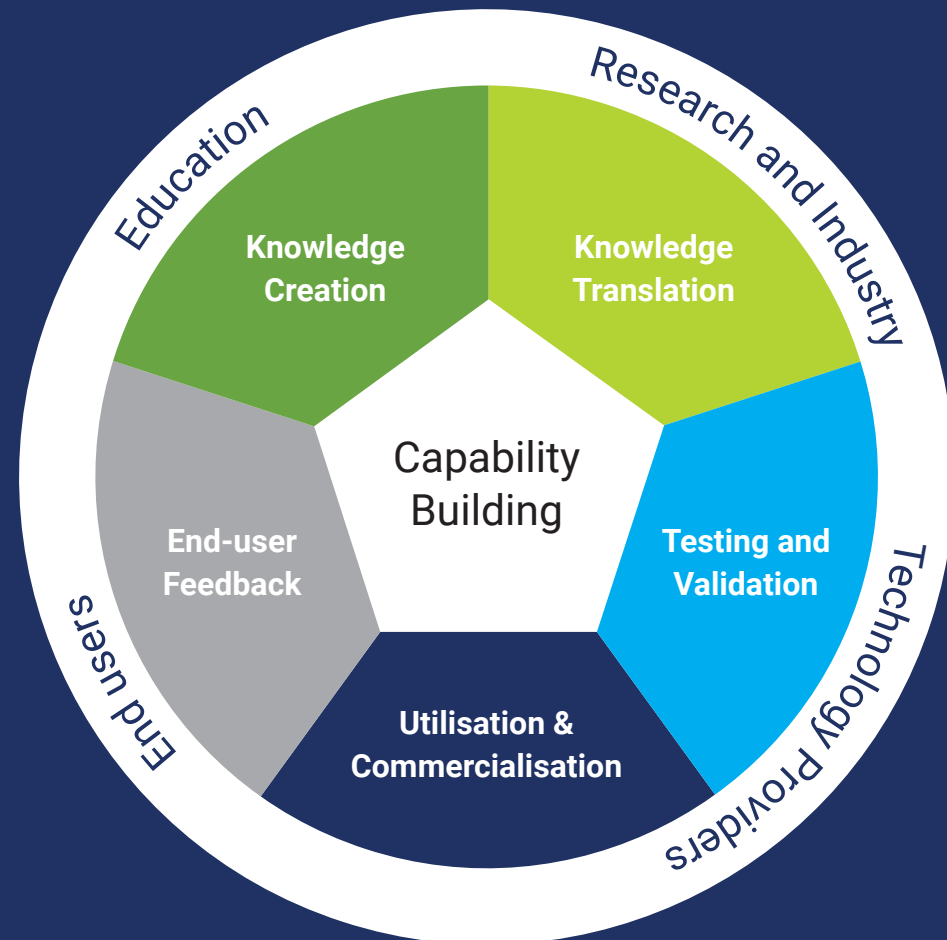Cooperative Research Centres Program

Our Vision

To be recognised as the leading contributor in transforming Australia's space innovation ecosystem for our future prosperity.

Meeting challenges and seizing the opportunities.

- **ECONOMIC** PROVIDE COMMERCIAL VALUE TO OUR PARTNERS & MAKE OUR END-USERS MORE COMPETITIVE
- **EDUCATION** DEVELOP OUR WORKFORCE AND INSPIRE THE YOUNG
- **SOCIAL** ENHANCE AUSTRALIAN ECONOMIC AND SOCIAL WELLBEING
- **NATIONAL SECURITY** BUILDING A STRONG SOVEREIGN INDUSTRIAL CAPABILITY

Our Strategy

Capability Building

- Knowledge Creation
- Knowledge Translation
- Testing and Validation
- Utilisation & Commercialisation
- End-user Feedback

Education · Research and Industry · Technology Providers · End users

Education and Training
The SmartSat CRC will build Australia's space industry workforce offering opportunities for:
- More than 70 PhDs
- Industry-focused doctoral program
- Skills requirements analysis
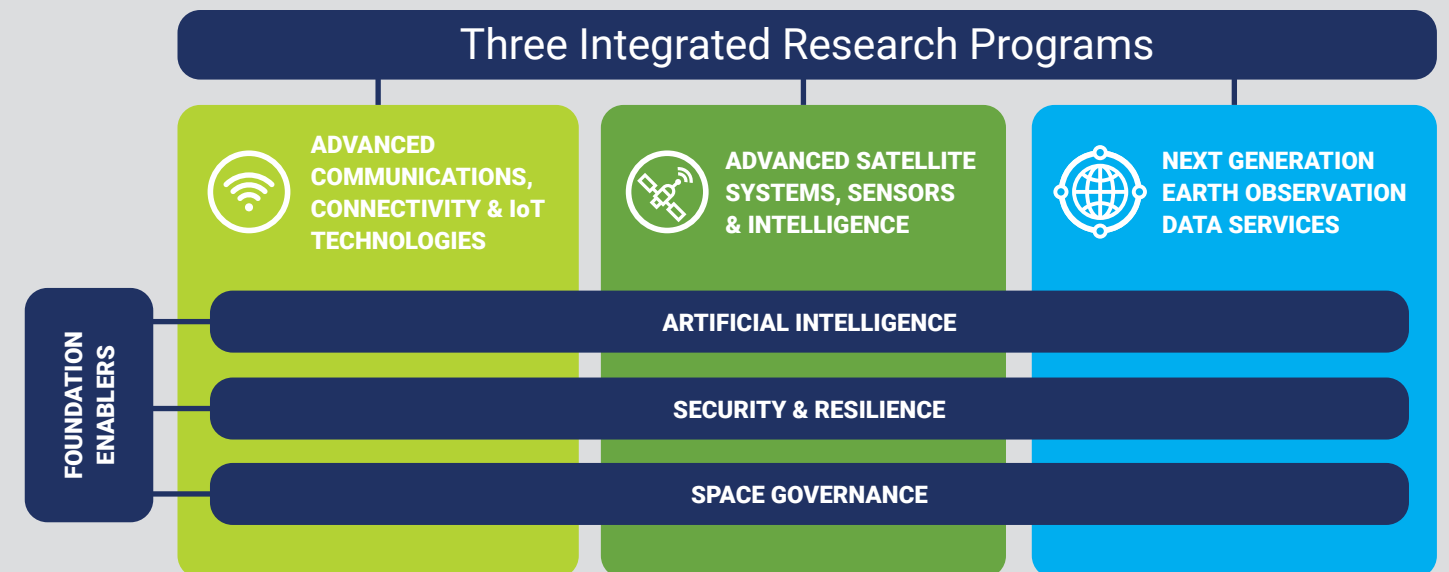- Credential training inspiring young Australians through STEM programs

End users
SmartSat will establish five End-User Advisory Boards in the following areas:
- Agriculture and natural resources
- Mining and resources
- Defence and security
- Transport and logistics
- Telecommunications

State Nodes
We are partnering with state governments across Australia to establish SmartSat nodes in those states so that our researchers and industry partners work hand-in-hand to help the space innovation ecosystems across the whole nation.

Our Research

Three Integrated Research Programs

- **ADVANCED COMMUNICATIONS, CONNECTIVITY & IoT TECHNOLOGIES**
- **ADVANCED SATELLITE SYSTEMS, SENSORS & INTELLIGENCE**
- **NEXT GENERATION EARTH OBSERVATION DATA SERVICES**

FOUNDATION ENABLERS
- ARTIFICIAL INTELLIGENCE
- SECURITY & RESILIENCE
- SPACE GOVERNANCE

Our Impact

We will work collaboratively with our partners to develop technologies that will help solve some of Australia's biggest challenges.

AquaWatch
We are partnering with the CSIRO to develop technologies for monitoring Australia's stressed freshwater systems from space.

Emergency Management
Next generation predictive early warning systems, advanced communications and near real time earth observation to manage catastrophic emergencies.

Ubiquitous communications
Developing capabilities in exciting new areas such as satellite optical communications, providing ultrafast communications and connectivity.

Supporting our Start-ups
We have established SmartSat Aurora (the Australian Space Start-up Cluster) comprising more than 45 space start-ups which will be given significant support from the SmartSat partners to grow their business and become globally competitive.

Our Partners

CORE PARTNERS

University of South Australia · MDA A MAXAR Company · ULVAC · Nova Systems · Curtin University · LA TROBE UNIVERSITY

THE UNIVERSITY of ADELAIDE · Australian Government Department of Defence Science and Technology · DEAKIN UNIVERSITY · THE UNIVERSITY OF SYDNEY · UNSW CANBERRA · BAE SYSTEMS

AIRBUS · Australian National University · UNSW SYDNEY · THE UNIVERSITY OF QUEENSLAND AUSTRALIA · FRONTIER SI · SWINBURNE UNIVERSITY OF TECHNOLOGY

SUPPORTING PARTNERS

SINTELIX · SITAEL AUSTRALIA · solinnov · SAAB · QUT · OPTUS · INOVOR TECHNOLOGIES · EM SOLUTIONS Radio waves at work

WESTERN SYDNEY UNIVERSITY · THALES · SHOAL · Myriota · fusetec · UBO Université de Bretagne Occidentale · USC AUSTRALIA · IMT Atlantique Bretagne-Pays de la Loire École Mines-Télécom

Picosat Systems · EOS SPACE SYSTEMS · NORTHROP GRUMMAN · THE UNIVERSITY OF WESTERN AUSTRALIA · LEONARDO · DEWC ELECTRONIC WARFARE IS OUR PASSION

MACQUARIE University SYDNEY-AUSTRALIA · Flinders UNIVERSITY · DCAT · GOONHILLY EARTH STATION · ENSTA Bretagne · FLEET · RMIT UNIVERSITY

NEUMANN SPACE · mla MEAT & LIVESTOCK AUSTRALIA · DMTC · CSIRO · HAMILTON SECONDARY COLLEGE Space School · Asset Institute · UCL · SCISYS · PALAMIR

Safety from Space · SOUTH AUSTRALIA · Government of South Australia · SOUTH AUSTRALIAN SPACE INDUSTRY CENTRE

START UPS

WRIGHT TECHNOLOGIES · DELTA-V NEWSPACE ALLIANCE · Jarmyn Enterprise Space · SPIRAL BLUE · Space BD · hydrix · FluroSat · Lookinglass

LUX · SOUTHERN LAUNCH · Symbios Communications · Tyvak · SABER ASTRONAUTICS · LYREBIRD ANTENNA RESEARCH · ARLULA

STARMASTER · black art technologies · OZIUS · TERRA DIGITALIS · SKYKRAFT · ISG The Industrial Sciences Group

aerospace systems · HE Robotics · GILMOUR SPACE · BUCHAN · FLAWLESS PHOTONICS · Quintessence Labs · ping · SatDek

CYBER OPS · Nano Thermal Technologies MAKING SPACE EVEN COOLER · MELBOURNE SPACE PROGRAM · Astrogate Labs · XERRA · Atmoscience · akuna

MAPIZY · HyImpulse · RESEARCHSAT Satellites for Life-Sciences · Ibatex Consulting · PREDICT Anticipate & Save · Lat 60° Connect · SPACE MACHINES COMPANY

NATIONAL AND INTERNATIONAL COLLABORATORS

JAXA · DLR · ISU INTERNATIONAL SPACE UNIVERSITY · SURREY · NUS National University of Singapore · NASA · UNIVERSITY OF SURREY · NSL

CATAPULT Satellite Applications · esa · Australian Space Agency