ICC INNOVATION & COLLABORATION CENTRE

The Innovation & Collaboration Centre (ICC) is the University of South Australia's startup incubator.

The ICC engages with the community through the delivery of community events, workshops and programs which draw on the research and professional expertise of UniSA and our partners, to support the generation of new startups and the growth of existing companies.

The ICC is headquartered in Adelaide and has a regional centre in Whyalla, South Australia.

icc.unisa.edu.au

VENTURE CATALYST SPACE

In 2021, ANT61 was one of the ten startup companies chosen to participate in the fourth cohort of the country's first space incubator program delivered by the ICC, Venture Catalyst Space.

FURTHER INFORMATION

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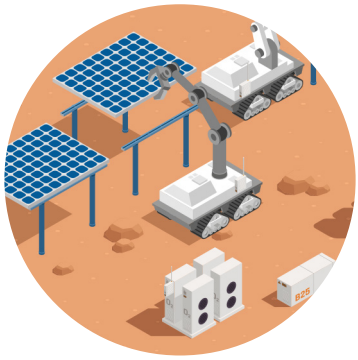
ANT61

Enabling humanity's development in space and back home



BENEFITS

- Robots follow high-level instructions
- Installation and assembly with high accuracy and speed
- Robots collaborate on complex tasks.

BACKGROUND

Humanity is expanding into space, yet humans are too fragile to perform the construction and assembly needed to create vital infrastructure in hazardous environments. Robots that can perform a wide variety of complex tasks autonomously are needed. In addition to great hardware, which is already available on the market, these robots need to be intelligent. ANT61 is working on the next-generation robotic brain, taking advantage of recent Artificial Intelligence (AI) breakthroughs. The first step on their robot's journey to space is in-orbit satellite maintenance, repair, and life extension.

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Government of South Australia
University of South Australia

ANT61

Mikhail Asavkin
Founder

Max Tegmark
AI Adviser

Surbhi Gupta
AI Vision Specialist

Domenic Simone
Senior Engineer

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ANT61

ANT61COM

TECHNOLOGY

Most commercial robotics systems use the so-called 'classical approach' where robots are programmed to perform one specific task in a stable environment, such as an assembly line or a pizza kiosk. ANT61's robots work in challenging and unpredictable environments, whether in space or on Earth, often alongside other robots and humans. At the core of the technology is a set of bespoke deep neural networks allowing ANT61's robots to perform a wide variety of construction and assembly tasks, choosing different tools depending on the situation and adjusting to the ever-changing conditions.

Life has evolved neural networks as a great multi-purpose tool to increase adaptability. Today, they give robots the same advantage.

THE $3.5B SPACE MARKET

ANT61 enters the $3.5B satellite servicing market with the first commercial missions planned for 2026.80% of the satellites fail due to a single component breakdown, and most GEO-stationary satellites are suitable for repair. While competitors are building fully remote-controlled robots making them expensive to build, launch and operate, ANT61 is leveraging the semi-autonomous technology allowing them to use much more nimble robots to perform the same variety of tasks.

IP STATUS

ANT61 are currently holding initial consultations with patent experts in the field.

PARTNERING OPPORTUNITIES

ANT61 is raising a seed round to finance demonstrator missions and unlock commercial service contracts. The company works with satellite manufacturers, insurance companies, satellite operators, space lawyers and space agencies to prepare the landscaper for future on-orbit servicing missions.

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