



HIGH ALTITUDE SENSOR SYSTEMS

PROGRAM INFORMATION

DMTC Ltd is an independent, not-for-profit public company that operates in the Australian defence and national security context.

DMTC's success is based on its ability to catalyse strategic activities, leverage capability and investment, and deliver genuine collaboration.

We are working with a broad range of capable industry and research partners to enhance Defence capabilities and build Australian industrial capacity in **High Altitude Sensor Systems (HASS)**.

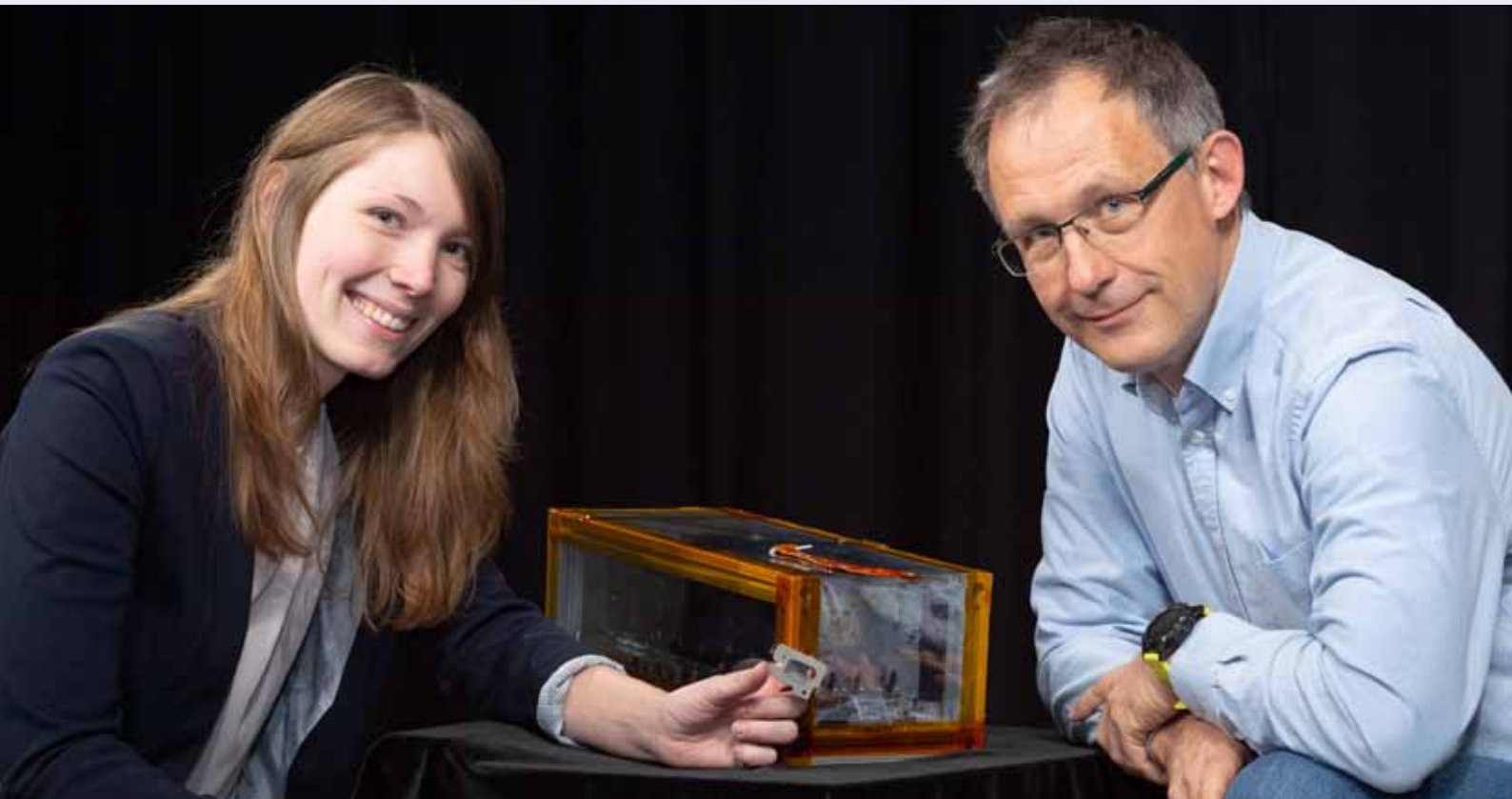
DMTC's HASS Program seeks to make a significant contribution to the growth of the Australian space industry and to the development of sovereign space capabilities for Australia. The Program was established in 2017 with an initial CSIRO investment of \$2.7 million.

Detailed advice and direction is being given by a range of Defence stakeholders including DST, RAAF and the Australian Geospatial-Intelligence Organisation.

DMTC and its partners are working in the TRL 4-7 range to develop technologies associated with sensors, on-board data processing and manufacturing technologies targeted for UAV and small / CubeSat satellite platforms.

While the outcomes of these projects are specifically targeted to meeting Defence objectives, dual-use applications and benefits are also anticipated.

DMTC is actively seeking opportunities to expand the program in future years. Additional calls for proposals are anticipated, and ongoing consultation on proposals and program themes is welcome.



L to R: PhD Candidate Ms Lena Sentker and Dr Doug Griffin, both of UNSW Canberra, are working on advanced manufacturing of CubeSat components, along with project partners A.W. Bell, La Trobe University and CSIRO.

PROJECTS UNDERWAY



Advances in Reflectometry & Remote Sensing

Development of a GPS reflectometry system for passive remote sensing.

DMTC Partners

University of NSW, Seaskip Pty Ltd



Compact, Spatially Agile Spectral Sensor

Development of a compact hyperspectral sensor system with the capability to operate off-nadir.

DMTC Partners

University of Technology Sydney, HyVista Corporation, DST Group



Advanced Manufacturing - CubeSat components

Advanced manufacturing techniques for rapid production of satellite components using low thermal expansion alloys such as Invar.

DMTC Partners

A.W. Bell Pty Ltd, La Trobe University, CSIRO, University of NSW



Ka-band and THz Receivers

Feasibility Study of Ka-band and THz Receivers for Potential Application in Airborne/Spaceborne Sensing and Communications.

DMTC Partners

CSIRO, Inovor Technologies Pty Ltd

For more information, please contact:

Dr Kimberley Clayfield

Program Leader - HASS

M +61 (0) 400 913 189

E kimberley.clayfield@dmtc.com.au

Mr James Sandlin

Program Development Manager, DMTC

M +61 (0) 447 440 475

E james.sandlin@dmtc.com.au

DMTC Ltd

Phone +61 3 9214 4447

Email information@dmtc.com.au

Web dmtc.com.au