Innovation & Collaboration Centre

Research Day

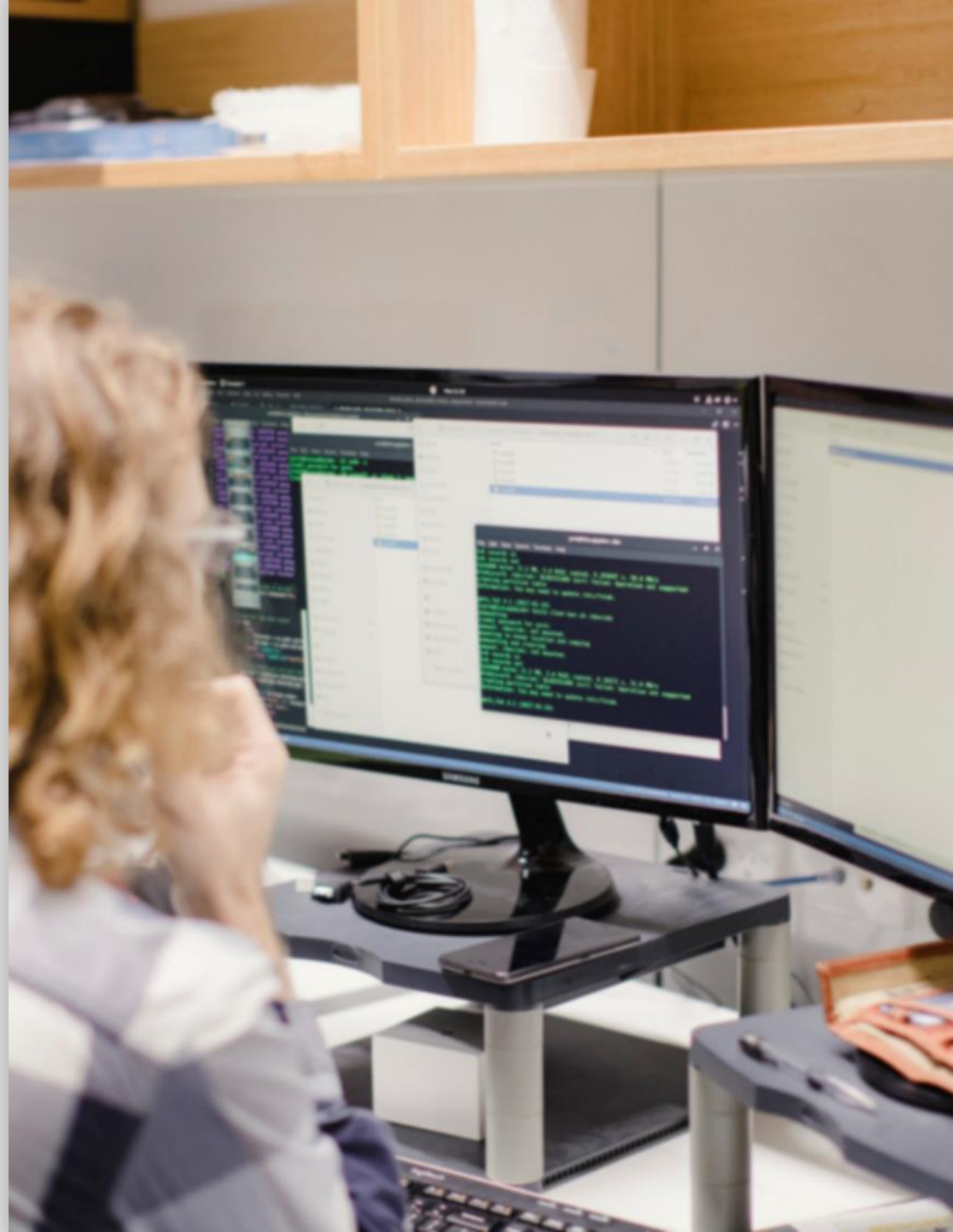
Jasmine Vreugdenburg
Associate Director

ICC INNOVATION & COLLABORATION CENTRE

University of South Australia

About the ICC

- Established in November 2015 as a strategic partnership between the University of South Australia, the South Australian Government and DXC Technology
- Supports technology-based incubation and business growth in South Australia.
- Our mission is to support the lifecycle of a company from idea generation to growth and expansion through support mechanisms such as engagement activities including events, programs and providing access to our professional and research staff.



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Since opening in 2015 the ICC...

350 Events, workshops and seminars

21 Startups funded and supported through Venture Catalyst Program

72 Startups have received mentoring and office support from the ICC

OVER $23.5 MIL investment/grant funding raised by ICC supported companies

200 Individual founders supported

3 Entrepreneur's in Residence

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What we do

Public Events

Programs

VENTURE CATALYST

VENTURE CATALYST SPACE

igniteSA

Incubator

secure nest

BLEND ETIQUETTE

Tekuma

MYRIOTA

TCpinpoint

ecoJet ENGINEERING

V/NNOVATE

VENTURE CATALYST SPACE

icc.unisa.edu.au/venturecatalystspace

A tailored incubator program to develop and grow innovative or disruptive ideas from entrepreneurs and startups in the space sector.

Program partners

University of South Australia

Government of South Australia

SOUTH AUSTRALIAN SPACE INDUSTRY CENTRE

ICC INNOVATION & COLLABORATION CENTRE

Venture Catalyst Space program

Acceleration

Incubation

Workshops

A series of capability workshops designed for founders (two per month).

Mentoring

One-on-one mentoring and group sessions.

Workspace

Workspace in a modern co-working environment including access to meeting spaces, kitchen and Wi-Fi at the ICC in UniSA's new $247m Cancer Research Institute.

Funding

A stipend of $6,000 per company.

Expert Advisers

Access to a pool of global expert advisers from the space industry.

Overseas tour

The opportunity to pitch for a sponsored overseas tour to the United States or Europe to network with relevant space industry primes, investors and other space startups.

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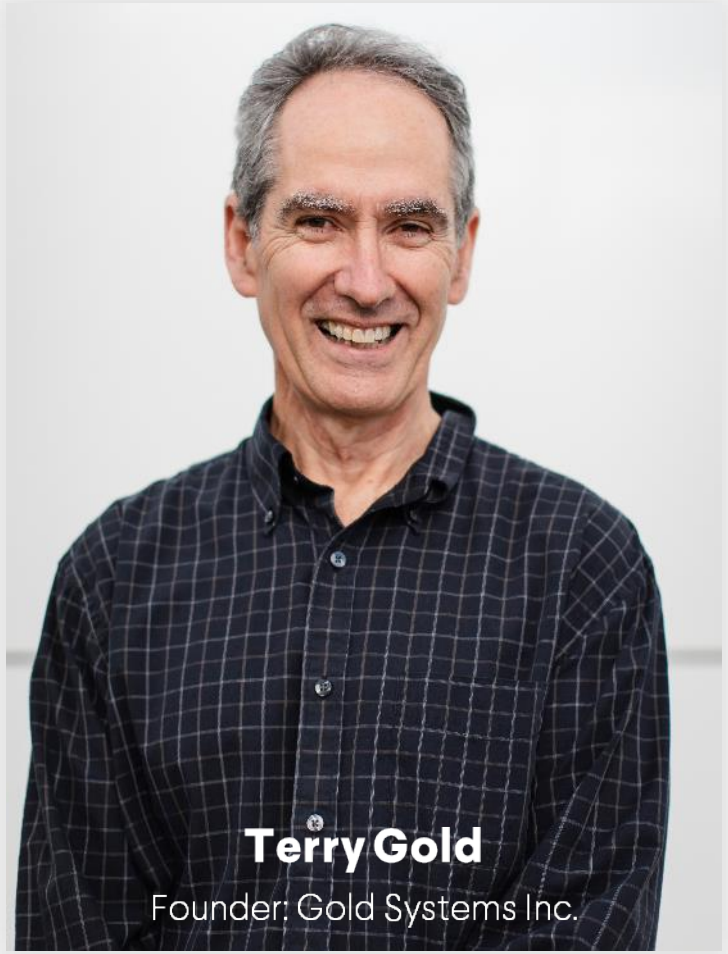
VENTURE CATALYST SPACE

Entrepreneurs in Residence

Kirk Drage
Founder: LeapSheep



Terry Gold
Founder: Gold Systems Inc.

Richard Turner
Founder: Zen Energy

Our Expert Advisers

Ady James
University of South Australia

Alex Grant
Myriota

Andrew Bollen
Acumen Ventures

David Bruce
University of South Australia

Doug Adamson
DNA Innovation

Flavia Tata Nardini
Fleet Space Technologies

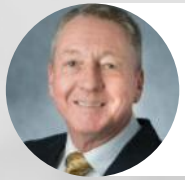
Jeff Kasparian
Acting Director of iMove Australia

Mark Borgas
Speedcast

Matthew Tetlow
Inovor Technologies Pty Ltd

Michael Davis
University of South Australia

Pam Melroy
Nova Systems



Reg Carruthers
Defence SA

Rilka Warbanoff
Israeli Chamber of Commerce

Simon Daws
UniSA Ventures

Thomas Pfister
Airbus, Australasia

Viraj Perera
UniSA Ventures

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VENTURE CATALYST SPACE

VENTURE CATALYST SPACE

Tekuma

WRIGHT TECHNOLOGIES

ResearchSat

Safety from Space

ping

LUX

Lookinglass

nano SPACES

FIRE FLIGHT
AERIAL FIRE MAPPING SYSTEMS

Astrogate LABS

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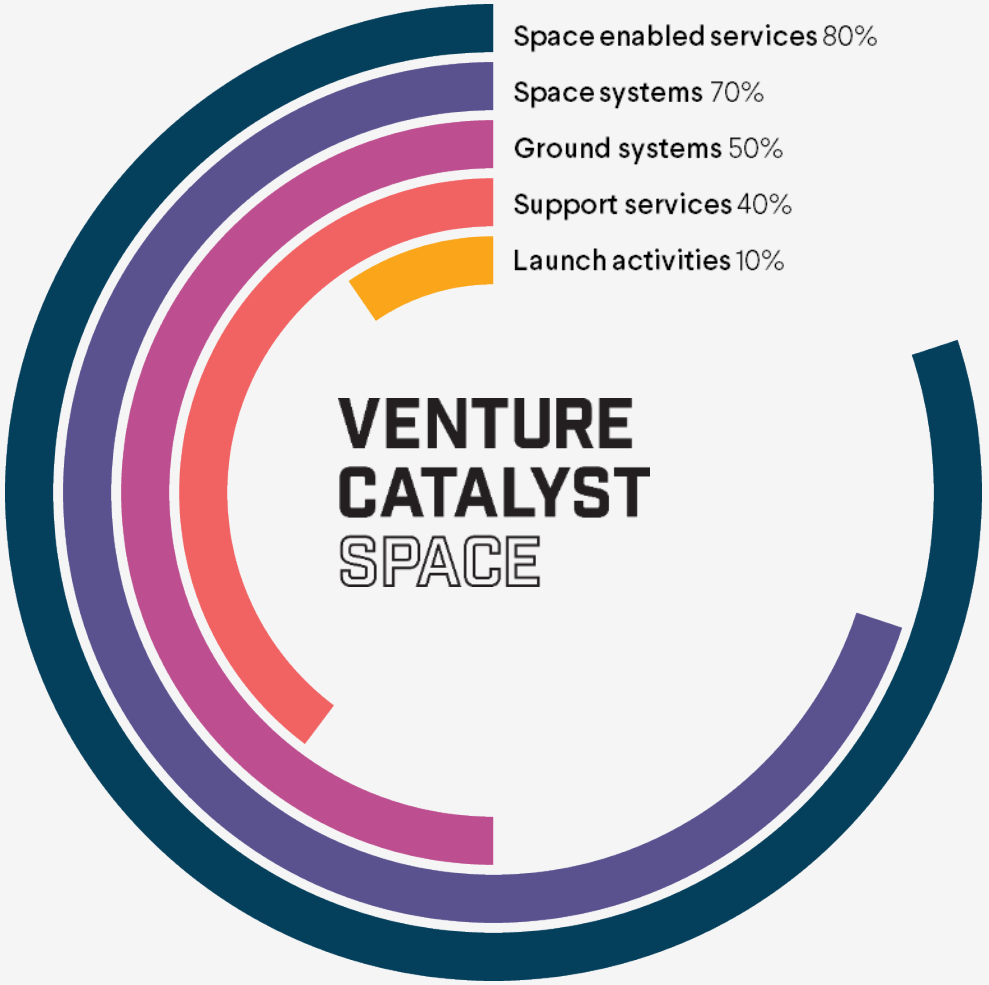
VENTURE CATALYST SPACE

Building SA's space capabilities

- Space enabled services 80%
- Space systems 70%
- Ground systems 50%
- Support services 40%
- Launch activities 10%



Wright Technologies

Securely integrating drones into society

WRIGHT TECHNOLOGIES

Team

Kosta Canatselis

Bez Mohammadi

- Developing an integrated drone management platform 'Orville' for enterprises intending to operate high-risk areas.
- Powered by a secure remote identification technology the platform enables route planning, transparency and compliance with regulation while ensuring fleet security through verifiable location and identity.
- Orville is secure hardware module and a software platform.

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Tekuma

Reinventing tactile control

Team

Annette McClelland

Michael Griffin

- Founding the next generation of intuitive hand controller hardware or 'joysticks' which enables one handed control of a object such as a drone, jet pack or robot.
- Have secured a licensing deal with a submarine company.
- Recently spent 90 days in the San Francisco Landing Pad and are now back to start manufacturing in Adelaide.

ResearchSat

Scientific research in space

ResearchSat
Satellites for Life-Sciences

Team

Vikrant Minhas

RaviTeja Duggenini

Jibin Dhanaraj

Priyanka Vishwanath Kini

Kartik Rameshbhai Patel

- ResearchSat are developing small satellite payloads which can take microbiological experiments to space.
- The technology uses advanced microfluidic chips integrated with a start-of-the-art electronic sensors suite and a data acquisition system which can be used to host and perform scientific experiments remotely in space.
- ResearchSat are looking to work with research organisations and other cubesat companies to share launch costs.

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Safety from Space

Next generation personal & vehicle emergency radio beacons

Safety from Space

Team

Mark Rice

Gottfried Lechner

Gary Shmith

- Developing a new safety system for remote locations with no phone coverage.
- Using the Global Navigation Satellite System (i.e. GPS or Galileo), emergency signals can be sent via a number of media (email, text, phone) and distributed through an underground network.
- Currently talking to NASA for a joint research project

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VENTURE CATALYST SPACE

Ping Monitor

Autonomous, Continuous Wind Turbine Blade Monitoring

ping

Team

Matthew Stead

Jon Cooper

Jake Bott

Maurizio Demontis

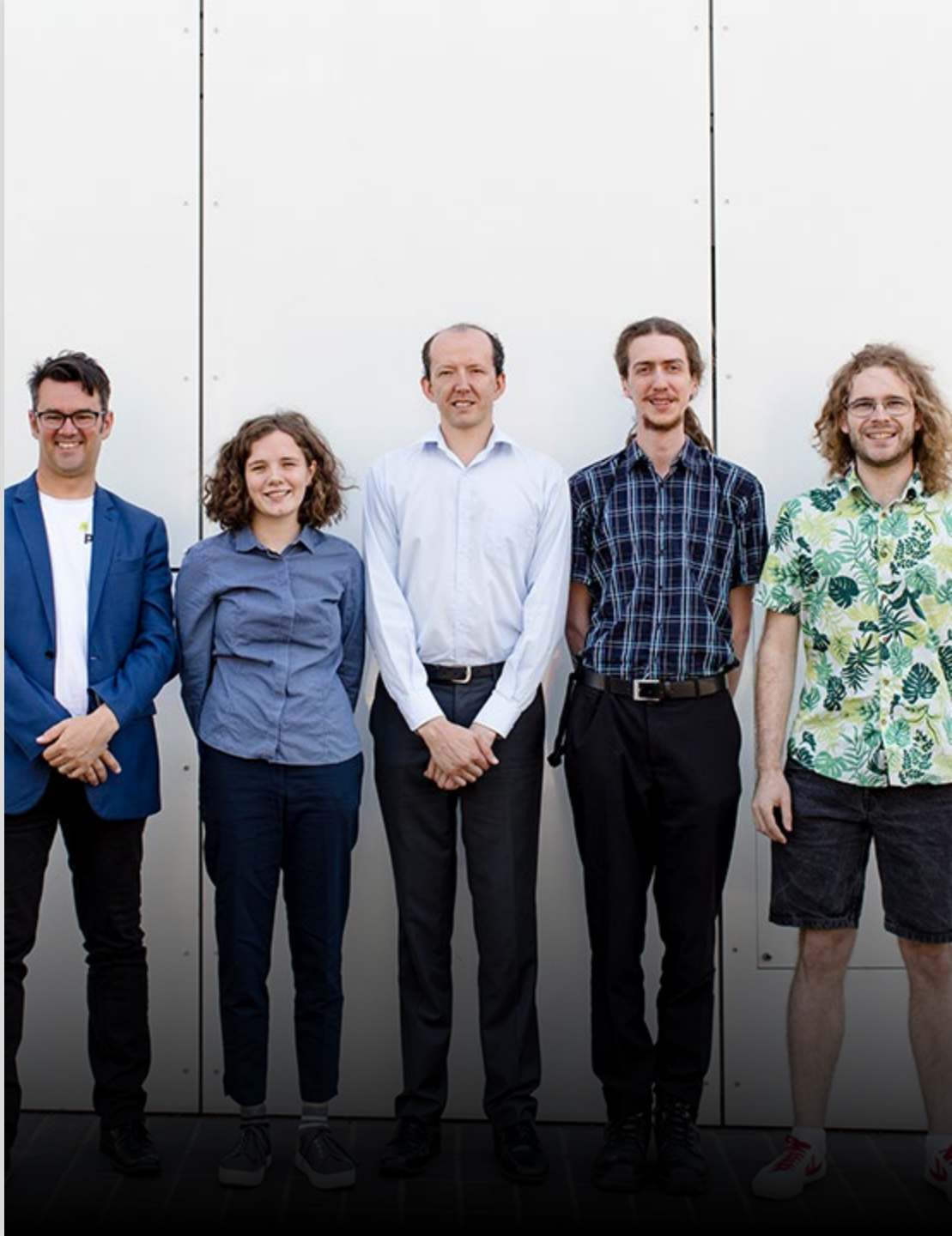
Matthew Tripoli

York Possemiers

Naja Dohm

Robby Ortloff

- Plug and play device that continuously assess the health of wind turbine blades and autonomously alerts maintenance staff when a change in the level of blade damage is detected.
- Uses acoustic based data analytics, Ping Monitor is a world first device developed to improve preventative maintenance of wind turbine blades, reduce costs and manage power generation outputs.



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Lux

Persistent remote sensing

LUX

Team

Katrina Albert

Vincent Lachance

Adithya Rajendran

- Founded in Montreal by Katrina & Vincent
- Lux are developing a constellation of atmospheric satellites consisting of high-altitude balloons equipped with a camera which operate between 18-25km of altitude to capture high resolution aerial images and deliver these to customers in real time.
- Goal is to operate a fleet of balloons over Australia to e able to provide a live digital twin of the continent and serve several markets
- Launching first balloon in December

Fire Flight

Fire intelligence for anyone

FIRE FLIGHT

AERIAL FIRE MAPPING SYSTEMS

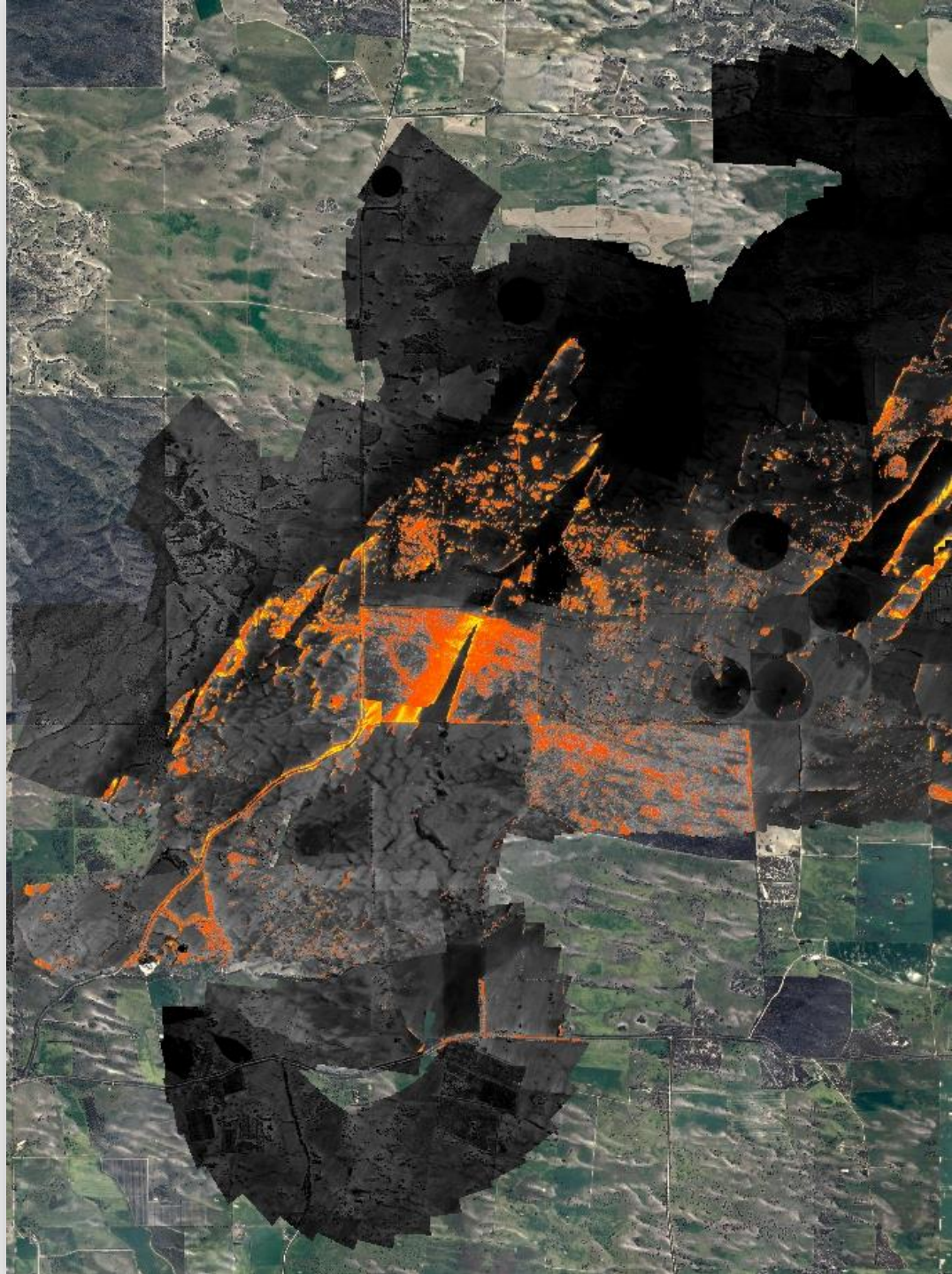
Team

Paul Dare

Greg Davill

Simon Cronk

- Fireflight are creating accurate wildfire maps from airborne and space born sensors
- The system creates maps of wildfires and delivers those in real time to users on the ground
- The system is built around thermal camera ad GPS technologies and can be mounted onto aeroplanes or satellites to detect wildfires and uses GPS to calculate the precise location of those fires



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Lookinglass

Monitor your health at home

Lookinglass

Team

Kelly Carpenter

Simon Cullen

- Lookinglass is a mirror and platform that helps people monitor their health at home.
- The mirror uses computer vision and machine learning to track movement and compare behaviour with known symptoms of degenerative diseases.
- The platform includes a proof of location, data access control and intrusion detection system using Galileo Satellite services to guarantee the authenticity of the health records being shared across an IOT device.

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Astrogate Labs

Smallsat optical communications solutions

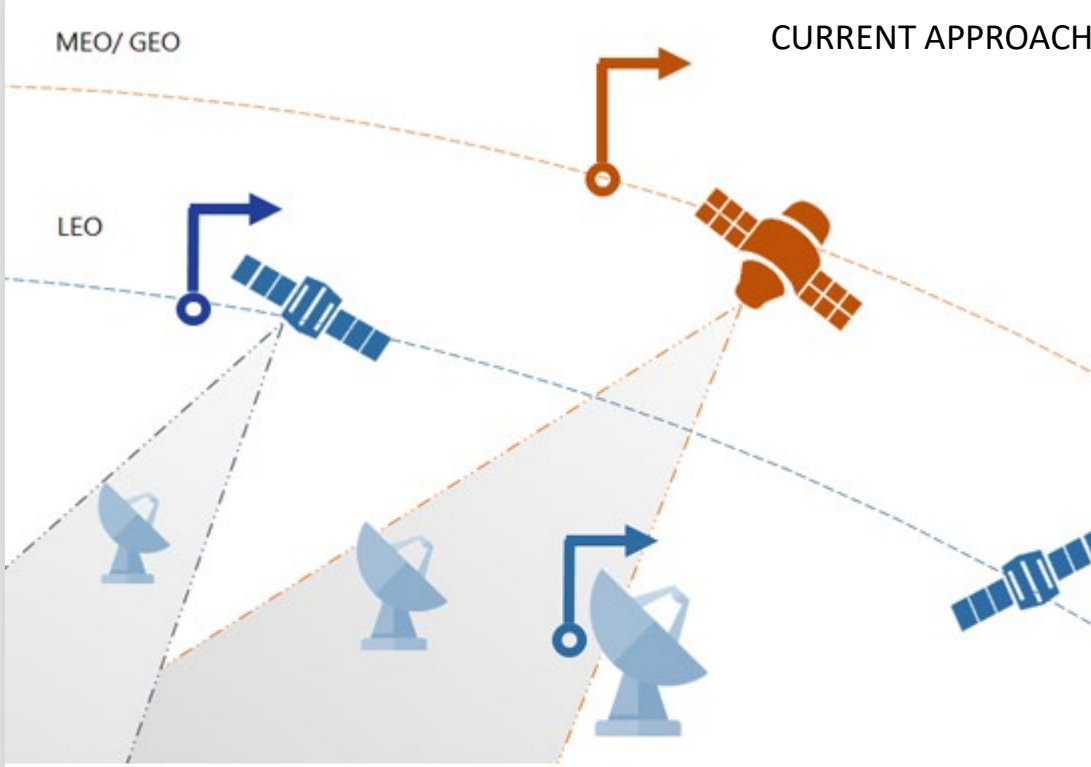
Astrogate LABS

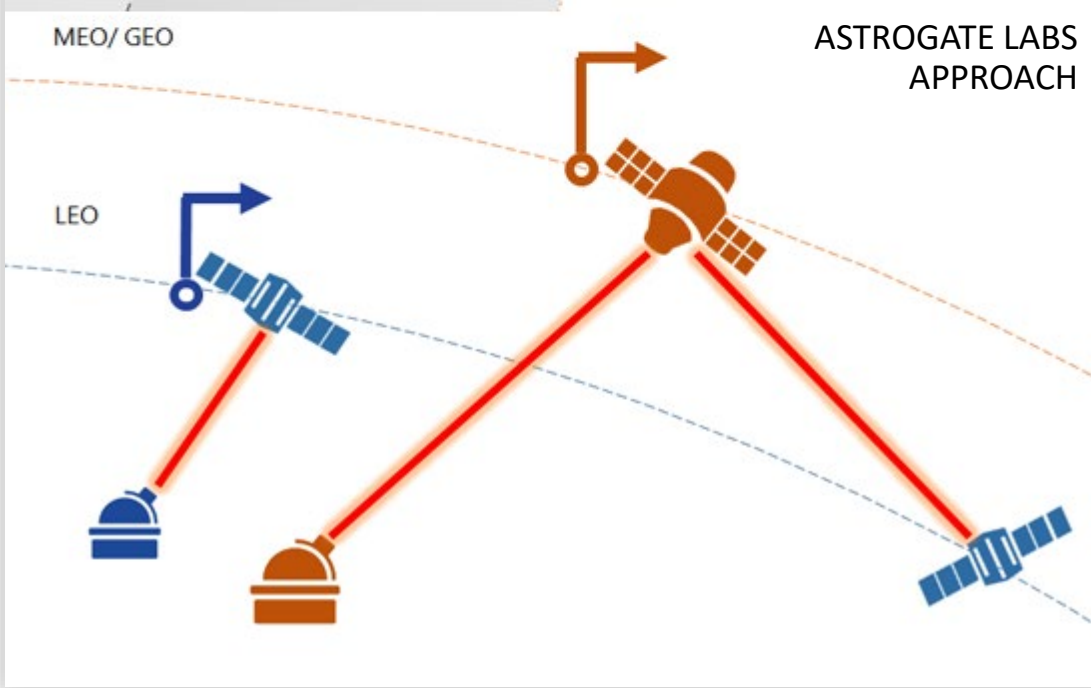
Team

Nitish Kumar Singh

Aditya Kedlaya

- Astrogate Labs are building free-space optical communication terminals for small satellites.
- Current space communication systems use ground stations with limited ability to transfer data.
- Astrogate Labs are building new optical flight terminals for satellites and new optical ground terminals with higher bandwidth and cloud network operations to create faster and cheaper communications





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Nano Spaces

Designing technologies for spacecraft

nano SPACES

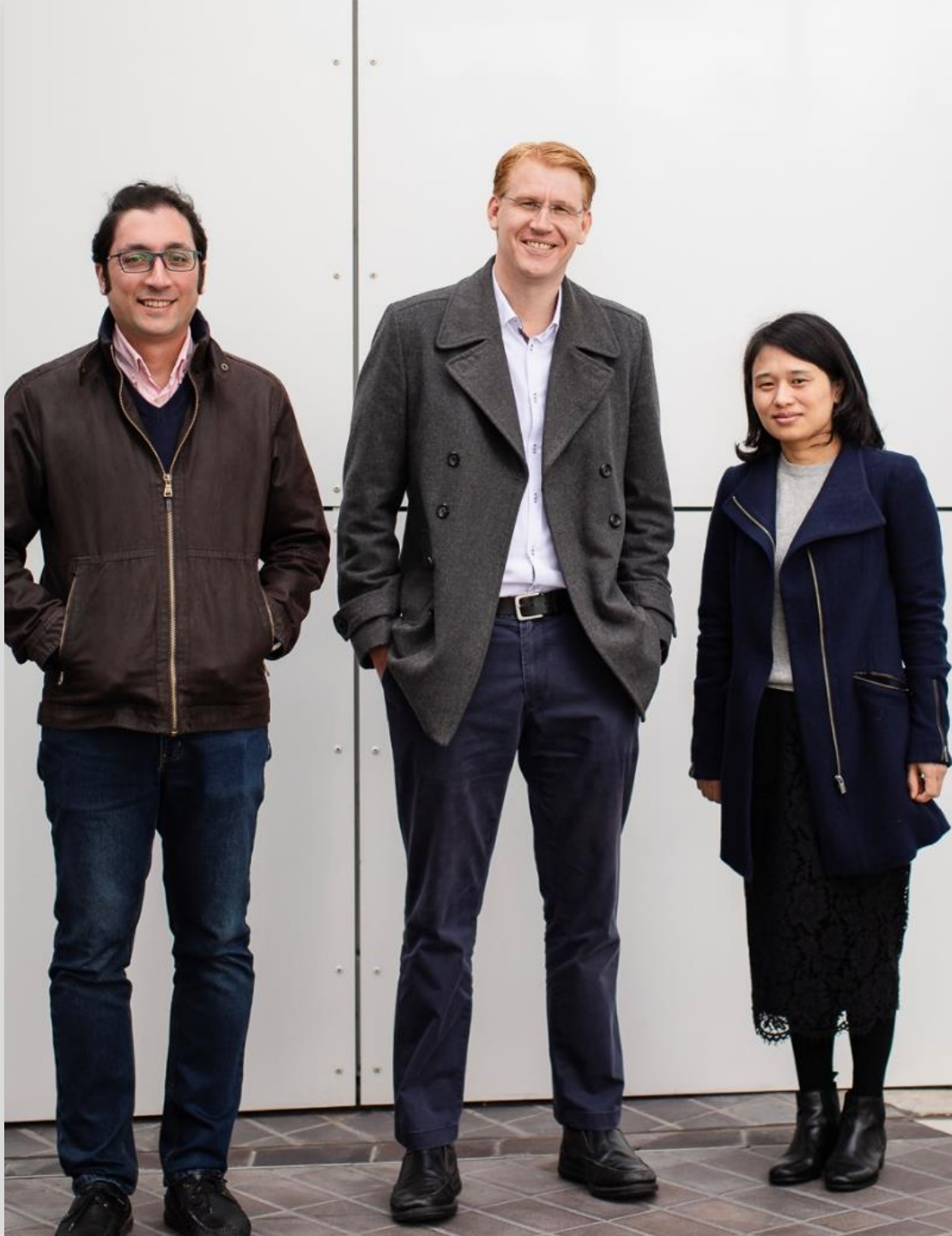
Team

Craig Priest

Daisy Yang

Moein Kashani

- Nano Spaces are developing micro-and nano-fluidic science and technologies for space applications.
- The team have more than 15 years research experience and aim to apply this by developing technologies to miniaturise payloads of spacecraft through better management of satellite fuels and other fluids with nanoscale precision.



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