



The Andy Thomas Space Foundation and the Edoardo Amaldi Foundation In collaboration with SmartSatCRC - Aurora Space Cluster

present

The first joint bilateral Workshop on

Earth Observation Opportunities for Space Start-ups

Monday 31 January 2022
at 5:25pm Adelaide Time (7:55am Italian Time)

MC: Nicola Sasanelli, CEO of the Andy Thomas Space Foundation

Welcome

5:30pm Adelaide Time (8:00am Italian Time) - MariaCristina Falvella, Chair of the Amaldi Foundation

5:35pm Adelaide Time (8:05am Italian Time) - Michael Davis, Chair of the Andy Thomas Space Foundation

National address

5:40pm Adelaide Time (8:10am Italian Time) - Giorgio Saccoccia President of Italian Space Agency (TBC)

5:45pm Adelaide Time (8:15am Italian Time) – Enrico Palermo Head of Australian Space Agency (TBC)

Applied research experience

- 5:50pm Adelaide Time (8:20am Italian Time) - Professor Andy Koronios, CEO of **SmartSatCRC** – (The SmartSat Cooperative Research Centre <https://smartsatcrc.com/> is an Australian consortium of universities and other research organisations, partnered with industry that has been funded by the Australian Government to develop know-how and technologies in advanced telecommunications and IoT connectivity, intelligent satellite systems and Earth observation analytics)
- 6:00pm Adelaide Time (8:30am Italian Time) – Andrea Taramelli **Italian National Institute for Environmental Protection and Research (ISPRA)** – (ISPRA is Public research body on the environment).
- 6:10pm Adelaide Time (8:40am Italian Time) - TBC - **PRISMA** an Italian satellite. (PRISMA is an Earth observation satellite with innovative electro-optical instrumentation which combines a hyperspectral sensor with a medium-resolution panchromatic camera).

Panel Discussion

6:30pm – 8:00pm Adelaide Time (9:00am – 10:30 Italian Time) (90 minutes)

Facilitator: Tim Parson Chair of AURORA SmartSatCRC

- [AICraft or Spiral Blue](#) - (Australia)
- [Arlula](#) – (Australia)
- [CosmicWaterLeaks](#) - (Italy)
- [Latitudo 40](#) - (Italy)
- [Lux Aerobot](#) - (Australia)
- [Meeo](#) - (Italy)
- [Planetek](#) - (Italy)
- [Regrow AG](#) - (Australia)

Conclusion

8:00pm Adelaide Time (10:30am Italian Time) - Lorenzo Scatena (10 min)

Start-Ups	Profile
AICraft or Spiral Blue (Australia)	<p>Space edge computing</p> <p>They are building Space Edge - an onboard computer for Earth observation satellites that processes images on the satellite as they are collected. They use a mixture of old school remote sensing techniques and modern AI techniques to process raw image data into information, reducing the size of images. This can result in a reduction of 20-1000 times while retaining all the desired information of the original raw image. This helps overcome the bandwidth problem, creating benefits in cost, flexibility, and lead time for services derived from satellite images.</p>
Arlula – (Australia)	<p>Gain access to decades of satellite imagery from around the world.</p> <p>Arlula aggregates extensive satellite imagery archives from our global network of data suppliers. Arlula provides a single point of access for a global network of satellite imagery.</p>
CosmicWaterLeaks - (Italy)	<p>Use the analysis of micro particles of spatial origin to identify water losses on each type of underground pipelines.</p> <p>Cosmic proposes to further develop their neutron detector-based concept to make a low-cost device that is easy to install on any vehicle to measure the water content of the ground around pipelines and identify leaks.</p>
Latitudo 40 - (Italy)	<p>Climate Change and sustainability</p> <p>Through a number of applications, the company discuss how extensive EO will provide a substantial contribution to the achievements of the SDGs by enabling decision-making and by addressing cross-cutting them such as climate and energy. All-in-one Urban Data Analytics Platform powered by satellite imagery and artificial Intelligence. Their technology allows to identify KPIs for environmental sustainability and ESG policies and quickly track the progress achieved.</p>
Lux Aerobot - (Australia)	<p>High-altitude platforms for Earth observation.</p> <p>Lux is a space-robotics company that specializes in the design, manufacturing and operation of high-altitude platforms for Earth observation. Through its unique imagery data, Lux is developing AI solutions to help a range of applications, from wildfire management to national security, leveraging machine learning algorithms suited for multiple industries.</p>
Meeo - (Italy)	<p>Meteorological Environmental Earth Observation</p> <p>MEEO develops and commercializes products and services within the Earth Observation, is a privately-held company devoted to the development and implementation of products and services based on remote sensing of the Earth-Atmosphere system. MEEO is able to provide a wide range of services and products “ready” (off the shelf) based on analysis of multispectral, multisensor and multitemporal satellite data for environmental monitoring, land management and agriculture .</p>
Planetek - (Italy)	<p>Geoinformatics, Space solutions, and Earth science.</p> <p>Planetek provides solutions to exploit the value of geospatial data through all phases of data life cycle from acquisition, storage, management up to analysis and sharing. The company operates in many application areas ranging from environmental and land monitoring to open-government and smart cities, and including defence and security, as well as Space exploration and EO satellite missions.</p>
Regrow AG - (Australia)	<p>Transforming agriculture systems is the single most important thing we can do to combat climate change.</p> <p>Regrow is a multinational team of scientists, agronomists, engineers, and software developers committed to transforming the supply chain from farm to fork to ensure a prosperous future for people and planet.</p>

