

# MUASIP - Melbourne Unmanned Aircraft Systems Integration Platform. Capabilities and examples

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## **Abstract:**

With the fast-moving development of light-weight imaging sensors and platforms, universities need to update curricula and make sure students and research staff have affordable access to the current state of the art technology. Most service providers that are currently available do not fit research/academic needs in terms of sensor specifications and ancillary data collection, or provide the needed data but at a price that does not fit research budgets. As a consequence, scientific researchers need to find a compromise between data quality and funding availability in detriment of excellence.

When done independently, researchers struggled to manage sensor funding and acquisition, drone infrastructure, and keep up with increasingly stringent regulations, and with ever more complex sensors and equipment. As an experimental solution to address the issues, MUASIP was launched early 2016 as a collaborative facility to integrate efforts, instruments and platforms across disciplines in The University of Melbourne. The facility works in collaboration with an industry partner and is maintained by both central funding and contributions of end-users that benefit from data acquisition at affordable prices.

After almost a year of being launched, the facility has been used by diverse disciplines across the university and industry. We are presenting MUASIP model and its current infrastructure and capabilities together with some exemplar services provided.