

## Confirmation PSY technology can detect insecticide residue in commercial aircraft

### KEY POINTS

- Feasibility study, funded by Federal Government, successfully completed on tunable filter technology application for insecticide detection
- Invited to apply for \$1 million grant to create prototype device for use
- Activities continue to validate PSY technologies in high value agriculture vertical

### BRII Grant Progress

Panorama Synergy Limited (ASX: **PSY**) (**PSY** or the **Company**) advises it has successfully confirmed that its Micro-Electro-Mechanical Systems (**MEMS**) tunable filter technology can be used to measure the concentration of insecticide residue in commercial aircraft. Insecticides such as pyrethroids are routinely used by airlines to kill foreign insects and mosquitoes to stop them 'hitch-hiking' to Australia, but any residue needs to be within safe limits for humans.

The initial research project was awarded in March 2017 with the successful research results completed and presented in June 2017. Funding of \$87,000 was provided through a Business Research and Innovation Initiative (**BRII**) grant via the Australian Department of Agriculture and Water Resources (**DAWR**).

PSY technical staff were invited to Canberra in June to present to senior representatives of both federal Departments on the positive research findings into the detection of pyrethroid residues using PSY technologies. The Company was subsequently invited to submit a next-stage \$1M funding proposal to develop a prototype MEMS-based device for use in working aircraft. The result of this competitive grant is expected to be announced in September.

### Potential Impact

If the grant application is successful, the prototype device - which will be fully owned by PSY - will consist of a standard integrated detector platform to suit a variety of PSY MEMS chips. This will enable the device to be readily customised to suit the needs of other potential customer groups such as farmers and suppliers of farming consumables, grain handlers etc – opening the door for wider sales of PSY's core MEMS technology in the high value agriculture vertical.

Peter Lewis, CEO of PSY noted that, "the successful study outcome validates the Company's continued investment in research and development (**R&D**) of our MEMS micro-spectrometry platform. We're particularly excited that our technology might be used as part of Australia's Agriculture safety efforts". Mr Lewis also noted that, "the company's wider R&D activities and outcomes continue to progress in line with expectations".

The unique technical and commercial advantages of the Company's micro-scale MEMS technologies provide potential widespread application across agriculture, defence, security, medical devices, pharmaceuticals, industrial control processes, and other industries.

– ENDS

*Panorama Synergy (ASX: PSY) is a technology company focused on the commercialisation of two leading-edge developments in sensor technology: microelectromechanical systems (MEMS) and MEMS-based spectroscopy (micro spectroscopy). The Company's best-in-class proprietary technology in MEMS sensors provides valuable exposure to the growing multi-billion-dollar MEMS, spectroscopy, sensors and Internet of Things (IoT) markets.*

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