



ATC17 SEMI-FINALISTS

Company	State	Technology
BCAL Diagnostics	NSW	BCAL Diagnostics is commercialising a transformational test that enables the early and accurate detection of breast cancer from a routine blood sample. The BCAL Diagnostics test is more readily accessible, more accurate than mammography and is available to women of all ages.
Biassex	WA	BIASSEX P/L is creating novel S(ex)-B(iasing) DEVICES to skew the gender of natural and artificially breedings of cows and/or sows at over 85% towards the female sex. The S-B DEVICES work with fresh, chilled and even frozen semen using proprietary, bispecific, monoclonal antibody (bsmAb) constructs mixes.
Ceres Tag	QLD	Ceres Tag is developing a low cost, high retention NLIS compliant smart ear tag for livestock that provides real-time geo-location, health monitoring, rates of growth and bio security solutions.
Clinical Universe	SA	Clinical Universe provides specialised software and expertise to connect medical Point of Care Testing devices to virtually any electronic health record, anywhere. CU software manages quality control, decision support and central storage across large testing networks.
Cycleport	VIC	CyclePort opens the door to affordable dock-free share bikes worldwide, by creating universal docking stations where controlled parking is needed such as in CBDs and train stations, but allowing dock-free parking elsewhere using 'soft' controls such as geofencing.
ELMOFO	NSW	ELMOFO provides a mains and/or solar supplied DC fast charging station with significant battery storage for fast charging of electric vehicles in remote locations, areas with a weak grid supply and for businesses with a high-usage electric vehicle fleet.
Enesys	VIC	Enesys' Enhanced Greenhousing can be added to an enclosed greenhouse to provide a closely controlled and flexible environment to increase productivity of vegetable crops. Ecologically sustainable, powered from fuel gas and biogas derived from its own recycled vegetable mass, it can generate more energy than it consumes.
EVO CRA	TAS	EVO CRA'S Ozofractionative Catalysed Reagent Addition (OCRA) process is an advanced water treatment process that removes a wide range of chemical, biological and solid contaminants from water. OCRA was developed to treat Acid Mine Drainage.
FluroSat	NSW	FluroSat enables applied precision agriculture and decision making in cropping through a suite of decision-support tools based on aerial and satellite images. The benefits to growers are saving on input costs, reduced yield losses due to pro-active intervention.
Future Grid	VIC	Future Grid makes every data point matter. The Future Grid Platform processes billions of data points per day to create meaning and value for enterprises (cutting processing time and cost by up to 90%). This allows enterprises to innovate faster, create value in real-time and ultimately delight their customers.
GeoInteractive	NSW	GeoInteractive's SewerScout is an autonomous floating image acquisition drone that removes the need for people to enter sewers to inspect the condition and enables prioritisation of pipe repairs and replacement.
GIS People	QLD	Customisable mobile apps. Real-time web maps. Smart data workflows. GIS People's flagship product Gruntify helps make short work of organisations' field-to-office data management. Gruntify transforms complex internal processes into an elegant set of logical and well-organised steps.
Greenland Systems	VIC	Greenland Systems' high temperature Solar Thermal solutions for commercial & industrial applications replace the use of Natural Gas and provide a viable solar powered solution for process heat.
Imagine Intelligent Materials	NSW	Imagine Intelligent Materials develops functionalised graphene materials that are electrically conductive and act as sensors. The first product is a graphene coating for geotextiles that is used to locate leaks from very small holes in linings used for tailings dams.
Innovative Engineering Products	NSW	Innovative Engineering Products has developed a new type of cutting pick for the underground coal mining industry that mitigates the risk of methane explosion by inserting copper into the steel body of the pick and reducing the thermal intensity of frictional hot streaks.
Intelligent Security Integration	VIC	ISI Aust. custom designs and manufactures unique mobile, rapidly deployable video surveillance solutions.
Iris Biomedical	WA	Iris Biomedical is developing a multimodal assessment product for fetal asphyxia and distress during birth using a medical device capable of continuously monitoring fetal biomarker levels and displaying these results on an external display unit.
Knowledge Global	NSW	Knowledge Global's Kogbill is a data service integrated into the energy retailer's website, to help digitally acquire customers using a simple bill comparison process. The consumer uploads their latest energy bill and is provided with a personalised comparison in seconds. The service empowers consumer choice and reduces acquisition costs for the retailer.
Livac	VIC	The LiVac retractor system (LiVac) is used to retract the liver during upper gastrointestinal tract laparoscopic surgery with minimal trauma to the patient.
Microbiogen	NSW	Microbiogen's platform technology improves and adds new industrial characteristics to the yeast <i>Saccharomyces cerevisiae</i> that enable the development of new yeast strains that are more temperature and acid tolerant, faster at fermentation and produce higher starch ethanol yields.



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MineExcellence	VIC	MineExcellence's SaaS and Mobile based Technology Platform aims to disrupt blasting by making technology and intelligence available to the average blaster easily anywhere, anytime cost effectively. It is being used by Tier-1 mining companies and caters for the entire blasting lifecycle.
Mining & Process Solutions	WA	Mining & Process Solutions' alkaline glycine leaching process offers a new way to extract copper and nickel from ores without the cost, safety risks, and long-term environmental problems of acid leach processes. The process is unique in its ability to co-extract gold with greatly reduced or zero cyanide usage.
MyGolgi	VIC	MyGolgi is a wearable that helps back pain sufferers improve their posture and provides health professionals with vital information about their patients' injury to aid rehabilitation.
Optimized Ortho	NSW	Optimized Ortho's Optimized Positioning System (OPS™) is designed for orthopaedic surgeons to optimize surgical outcomes for total hip replacement procedures by providing the ability to customise the type and orientation of the prostheses used during the operation.
PassMark Software	NSW	PassMark Software's OSForensics V5 software suite provides law enforcement agencies with a fully automated solution for digital investigation by extracting vital data and evidence more quickly and efficiently than other digital forensics systems through high performance file searching and indexing.
Penten	ACT	Penten's AltoCrypt™ Stik is a secure, small and discrete USB device that enables mobile access to the most sensitive of classified government networks.
Pinssar	QLD	Pinssar has released the world's first real-time continuous Ambient Air Diesel Particulate Matter (DPM) Reader (Monitor) for harsh environments and to protect worker and public health and well-being.
POET Systems	SA	POET Systems' plastic-to-energy technology allows for treatment and processing of plastics through Anaerobic Digestion using microbial transformation of the hydrocarbons to non-toxic organic fertilisers.
Premonition	NSW	Premonition optimises fleets in real-time by combining artificial Intelligence and machine learning to provide Autonomous Logistics that adapts to traffic congestion, delays and missed deliveries.
Simble	NSW	SimbleSense is an energy monitoring solution that supports real-time communication and analytics with an ecosystem of IoT devices including smart sensors, tags, plugs and meters.
XDI – Cross Dependency Initiative	NSW	XDI is an infrastructure risk and resilience software platform that provide infrastructure managers and owners a means to quantify and plan for weather and climate risk and resilience.
XO.1	NSW	XO.1's SecureVote is the world's most secure, scalable and resilient internet voting system which is smartphone enabled and addresses all the current technical challenges of internet voting.