

Bulletin 19th October 2020

McKinsey The Fourth Industrial Revolution and manufacturing's great reset

Manufacturers that are ahead in scaling advanced production technologies are successfully navigating [four durable shifts](#) that are critical to managing unprecedented disruption. *Improved agility and customer centricity* across E2E manufacturing and supply chains; *Supply-chain resilience* provides a competitive advantage; *Speed and productivity* are attained through increased levels of automation and *Eco-efficiency* is increasingly considered a must-have to remain in business and ensure compliance with an increasingly complex regulatory landscape.

Webinar: Export Capabilities 27th Oct

An online discussion about how Trade is important in making a post Covid business recovery. This [webinar](#) is for businesses who are looking for different market opportunities but may not have exported before and for those that have exported previously but have stopped due to the impact of Covid.

End of uncertainty for R&DTax Incentives

The “enhanced” [reforms](#) to the R&D tax incentive passed Parliament just days after being announced, ending two and a half years of uncertainty for those accessing the popular scheme.

ANSTO's novel idea for recycling CO2 in mining

Dr. Jessica Hamilton, a beamline scientist at ANSTO's Australian Synchrotron, recently won the Falling Walls Lab competition hosted by the Australian Academy of Science for her presentation on a [novel approach](#) to using mining waste for carbon dioxide capture and a source of valuable minerals.

Energy cost of staying at home

As we continue to adjust to the new normal brought about by the COVID-19 pandemic, we know things will not return exactly to the way they used to be. While we're figuring out this new normal, we need to ask what aspects of our new lifestyles should stick around, and at what [cost](#)?

NSW imports 2,000 trains whilst Vic, WA & Qld back local manufacture

The New South Wales government have ordered close to 2,000 rail carriages and tram cars from overseas in only 10 years, putting the lie to the government's suggestion that it is forced to buy trains overseas, according to a new analysis by the Australian Manufacturing Forum. Yet Victoria, WA and Queensland back [local manufacturing](#).

EPIA – The Australian Technology Roadmap Conf 4th Nov 2020

In September, Minister Angus Taylor announced the two purposes of the Government's 'bottom up' Technology Investment Roadmap: (1) to encourage greater private sector investment in low-emissions energy technologies and (2) to help Australia prepare for the Glasgow Climate Change Conference. EPIA now brings together a [focussed panel discussion](#) with prominent industry leaders led by Grant King, a member of the Government's Technology Investment Advisory Council.

Federal Budget boost for business

The 2020-21 Budget includes a range of programs to help businesses recover from the impact of the coronavirus pandemic and boost business confidence. Find out what it means for your business

<https://www.shirebiz.net.au/nrsite/wp-content/uploads/2020/10/Federal-Budget-Boost-for-Business.pdf>

How has COVID19 affected mental health in your workplace

It's been a challenging year for all of us. The NSW Government would like to hear from business owners about how the pandemic has impacted your and your employees' mental health. Good mental health is about being able to cope with the everyday stresses of life, work productively, and connect with friends and family. How has your team been doing?

<https://www.shirebiz.net.au/nrsite/wp-content/uploads/2020/10/How-has-COVID-19-affected-mental-health-in-your-workplace.pdf>

The artificial intelligence of things

Artificial intelligence can multiply the value of IoT by using all the data from smart devices to promote learning and collective intelligence. Either one has value alone, but they offer their greatest power when combined.

Latest from Circadia Innovations

Amongst a number of start-up developments, Morse Micro is soon to release industry's smallest and most integrated Wi-Fi single chip [solution](#).

Shirebiz member has new website

<https://www.vmsconferences.com.au/>

Morse micro's new Halo WiFi ready to be released

<https://www.shirebiz.net.au/nrsite/wp-content/uploads/2020/10/Morse-micros-new-halo-wifi-ready-to-be-released.pdf>

More than just a power source

Nuclear power has a variety of non-electric applications in addition to hydrogen production. Some of these include district heating for homes and businesses, heating and cooling for industrial purposes, and desalination of seawater to boost the availability of drinking water.