

TechInnovation 2021 virtual exhibition to showcase Sustainable Energy, Food, and Healthcare Solutions

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IPI presents TechInnovation 2021 to showcase current innovative technologies that seek to sustainably use our earth's resources, improve food production, and secure citizens' health.



IPI's flagship technology brokerage event will spotlight the latest global sustainability solutions from 28 to 30 September 2021

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The TechInnovation virtual exhibition will be held between 28 and 30 September. Over 160 exhibitors from 20 countries will showcase more than 400 solutions that tackle key challenges that exist today – to produce clean energy and reduce environmental waste, address the issue of excessive food waste, and enable better healthcare.

Building Sustainable Food Systems

According to the United Nations Food and Agriculture Organisation (FAO), we will have to produce 60 percent more food to feed a global population of 9.3 billion by 2050. However, current farming practices means that we will not be able to meet the requirement. Alternative proteins present a solution.

At the TechInnovation 2021 exhibition, visitors can discover various alternative protein solutions. Food technology company **Mosa Meat** exhibiting under the Netherlands Innovation Pavilion is pioneering [technology for cultivating meat](#) and is open to licensing their technology across the production process.

Indonesia's **National Research and Innovation Agency (BRIN)** will demonstrate its solution to [turn fish waste into protein hydrolysate](#), a high value ingredient that can be made into peptone suitable for microbial growth media industry. As a food ingredient, protein hydrolysate is suitable for consumption by toddlers and seniors as it is easily digestible.

Humans are not the only ones that will need to eat. Sustainable insect protein solutions are also explored for livestock feed and more. An exhibitor, **Nutrition Technologies**, is using Black Soldier Fly Larvae (BSFL) to convert organic waste and byproducts into protein, oil, and frass (insect manure). The proteins and oil are used as high value animal feed ingredients.

Other uses of the byproducts include purifying the insect cuticle containing chitin into chitosan, which has a range of applications in the pharmaceutical industry.

Delivering healthcare through smarter systems

According to the [World Health Organization](#), the global economy could create 40 million new health-sector jobs by 2030. The Workforce 2030 report suggests that there could be a shortfall of 9.9 million physicians, nurses and midwives globally, so unless there is major structural and transformational change in the healthcare system, the industry will struggle to be sustainable. One solution could be the applied use of technology.

RetinaRisk will showcase a [software solution that could revolutionise diabetic eye care](#) for instance. Centered on a clinically-validated algorithm, the solution accurately calculates the risk of sight-threatening diabetic retinopathy, which is one of the leading causes of blindness in the world. The solution facilitates early detection of the eye disease and allows for personalised care to enhance patients' clinical safety. It can be used by healthcare institutions to improve patient clinical outcomes and optimise cost of care.

Another exhibitor, **AlgoDx** aims to improve patient outcomes and reduce healthcare costs by providing accurate prediction, diagnosis, and treatment support through their machine-learning [algorithm for autonomous sepsis prediction](#) of intensive care unit (ICU) patients. The solution predicts sepsis onset in adult ICU patients and can alert clinicians about patients at risk of sepsis development for early clinical intervention.

160 global exhibitors are open for collaboration

TechInnovation 2021 will run for 24 hours a day from 28 to 30 September, enabling exhibitors and attendees across all time zones to tune into the conference, explore technologies and network with each other.

Playing technology matchmaker, IPI – an innovation catalyst and the organiser of TechInnovation, will facilitate meetings between technology seekers and providers that are seeking open innovation collaborations.

To view the international exhibitors and technology offers available for licensing and commercialisation, please visit <https://www.techinnovation.com.sg/website/26009/exhibitors/>.