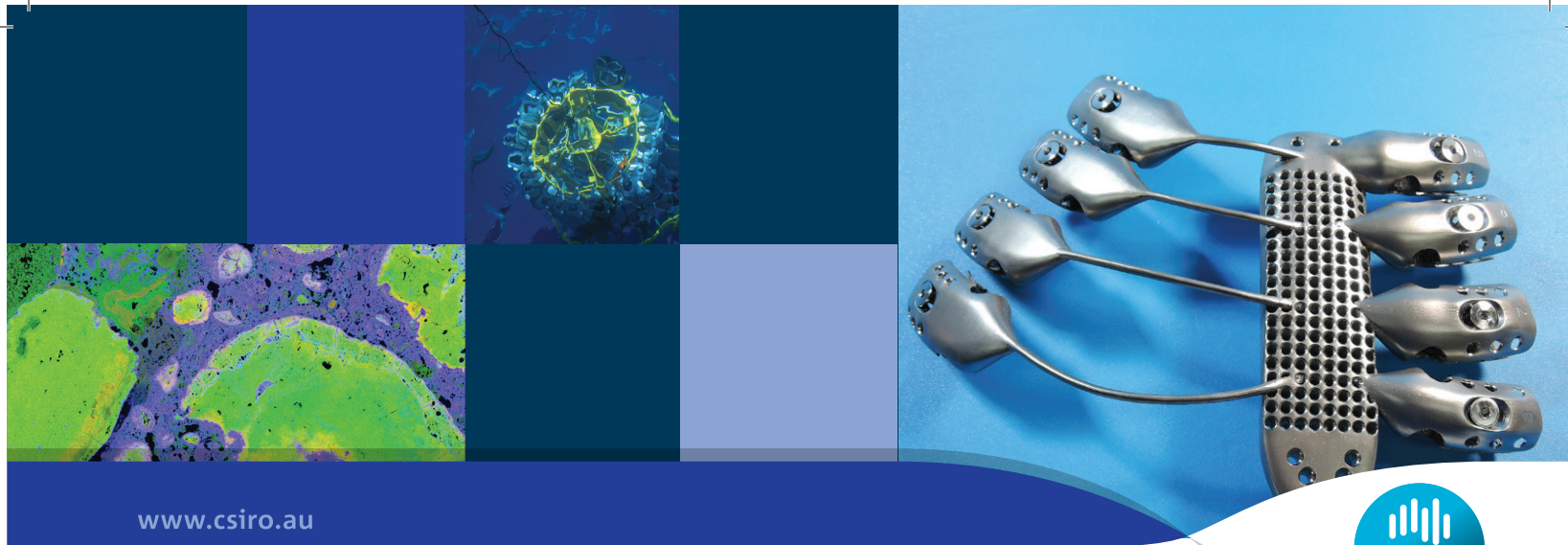




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Snapshot: CSIRO in ASEAN

Australian science and technology is front and centre in ASEAN as CSIRO grows its presence in the region. Led by our team in Singapore, and strengthened by partnerships in Vietnam and Indonesia, Australia's national science agency plays a critical role in the Australian Government's commitment to collaboration with ASEAN members to enhance regional security and prosperity.

CSIRO is building on the strong foundation of our existing partnerships with ASEAN governments, research institutes and business to grow the region's scientific excellence, pathways to market, and collaborative networks. Our deep connections across the Australian innovation ecosystem provide an entry into all Australian universities, major Australian industries, and Australian start-ups and spin-outs through our sci-tech accelerator called ON and the CSIRO Innovation Fund, managed by Main Sequence Ventures.

Across ASEAN, CSIRO and our partners are harnessing the power of innovative science and technology to solve the region's greatest challenges.

Singapore

Australia and Singapore signed a Comprehensive Strategic Partnership (CSP) agreement in 2015 setting out a blueprint for closer economic integration over a ten year period.

In 2016 the CSP was updated to include new bilateral cooperation in science and innovation.

As part of Australia's commitment to build stronger innovation links and facilitate mutual learning and economic growth, CSIRO is:

- Cooperating with Singapore's A*STAR for High Performance Computing (HPC) and the creation of an Asia-Pacific HPC Research Cloud,

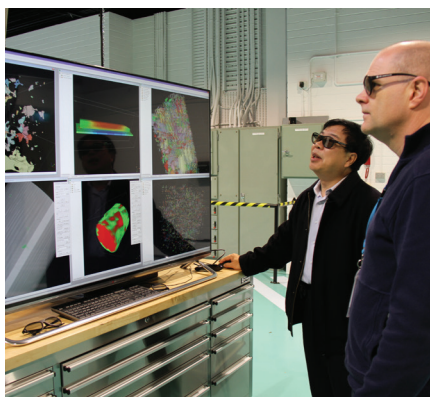
- Contributing to a joint seed fund of \$1.5m with Nanyang Technology University for collaborations in additive manufacturing, health, and sustainable solutions, and

- Contributing to a \$1m project to research resource deployment and optimisation in disaster management scenarios with the National University of Singapore.





CSIRO's Novacq product is assisting Vietnam's shrimp industry



Industry can 3D print out of sand, titanium and other metals using Lab 22 facilities.

Indonesia

Since 2015 CSIRO and the Australian Government have been working with the Government of Indonesia (The Ministry of Research Technology and Higher Education – RISTEKDIKTI) to increase the incomes of a target 10,000 smallholder farmers in eastern Indonesia.

The Applied Research and Innovation Systems in Agriculture (ARISA) program forms part of the Australian Government's AIP-Rural program, which promotes economic development, poverty reduction and increased food security in Indonesia by stimulating productivity and increasing farmers' access to markets. It focuses on driving collaboration between researchers and agribusinesses of all sizes to adapt existing innovations for their local conditions.

Program activities have included:

- Technical support through access to capacity building and internationally experienced technical expertise,

- Financial assistance to share and spread investment risks through matching co-investment, and

- Access to national and international best practices for the development of agricultural innovation systems.

Already more than 13,000 farming households have access to new practices, information and inputs through ARISA activities, with 4,500 households recording increased incomes. This equates to an additional AUD 13 million earned by adopting ARISA activities against a total project expenditure of just over AUD 4 million.

ARISA interventions are also creating positive outcomes for women in production and post-harvest. For example, new livelihood opportunities for women in cassava processing are contributing additional income to households in east Java.

Vietnam

From aquaculture to space science and into our digital future, CSIRO's research partnerships in Vietnam are diverse and multidisciplinary.

- Partnership with Viet-UC to develop a shrimp seedstock hatchery operation. CSIRO helped to build a feed industry based on our Novacq product, which is now in the shrimp production stage. Vietnam is the world's second largest producer of shrimp, producing 600,000 tonnes per year.

- Partnership with the Vietnam National Space Centre (VSNC) to use CSIRO's DataCube service to build data sets and algorithms for environmental management.

- Partnership with Vietnam's Ministry for Science and Technology (MOST), funded by Australia's Department of Foreign Affairs and Trade, to examine the state of Vietnam's digital economy at the beginning of 2018, and trends that will affect its development over the next 20 years. This study will share different scenarios of plausible futures for Vietnam's digital economy, specifically in two significant industrial sectors: manufacturing and agriculture.

5 ways we can work together in ASEAN

- 1 Create** IP together to address major regional challenges
- 2 Discover** great Australian innovations through CSIRO's ON network
- 3 Access** world leading facilities and technologies
- 4 Connect** to Australian deep tech businesses expanding across ASEAN
- 5 Harness** existing technology

CONTACT US

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WE DO THE EXTRAORDINARY EVERY DAY

We innovate for tomorrow and help improve today – for our customers, all Australians and the world.

**WE IMAGINE
WE COLLABORATE
WE INNOVATE**