



CYBER SECURITY
COOPERATIVE
RESEARCH
CENTRE

The Cyber Security Cooperative Research Centre

Research with impact in the cyber security

Who are we?

- The Cyber Security CRC is a not-for-profit company that will deliver outstanding cyber security research that has an impact and solves real world problems
 - We are industry-led and university-fueled, with an Australia-wide approach to the ever-changing cyber threat landscape
- The CSCRC aims to connect industry and researchers to develop and potentially commercialise products and services that advance the safety and security of Australia
 - Also aims to inspire the next generation of cyber security professionals by offering scholarships through our participating universities and the opportunity to learn from some of the best cyber security researchers in Australia
 - We aim to develop and potentially commercialise cutting-edge research and solve real-world problems that will strengthen Australia's sovereign cyber security capabilities

What is a CRC?

- A Cooperative Research Centre is a company formed through a collaboration of researchers and industry, for the purpose of undertaking research
 - Average \$3.6 million a year government contribution backed by industry cash and in-kind.
 - Generally headquartered in a single location with researchers spread across the country and the world at various locations and institutions
- Participants include: SME, LE, industry associations, universities and government research agencies such as the CSIRO.
- Whole of government program. Can be used to address government research priorities

Why CRC?

- **CRCs bring together industry and researchers to address industry-identified issues within a sector and train students in advanced research**
 - CRC Program produces industry-ready graduates through specialised industry/education training programs. When compared to university groups, CRCs perform among the best nationally in supporting doctoral completions, second only to the Group of Eight
- **2012 Study of the CRC Program found that it generated a benefit to the community that exceeds its cost (Commonwealth investment) by a factor of 3:1.**
 - The Program has generated net economic benefits of \$7.5 billion—a contribution of approximately 0.03 percentage points or \$278 per annum—to the GDP. The CRC Program has also had significant environmental and social impacts.

Cyber security is a crowded space – the voice of the Cyber Security CRC is unique because we are able to stand at the intersection of tech and policy, bringing together siloed research ideas and perspectives and acting as a hub of interdisciplinary and cross-sectional research

Our Participants



7 research institutions



8 government departments/ agencies



9 industry/ SME partners

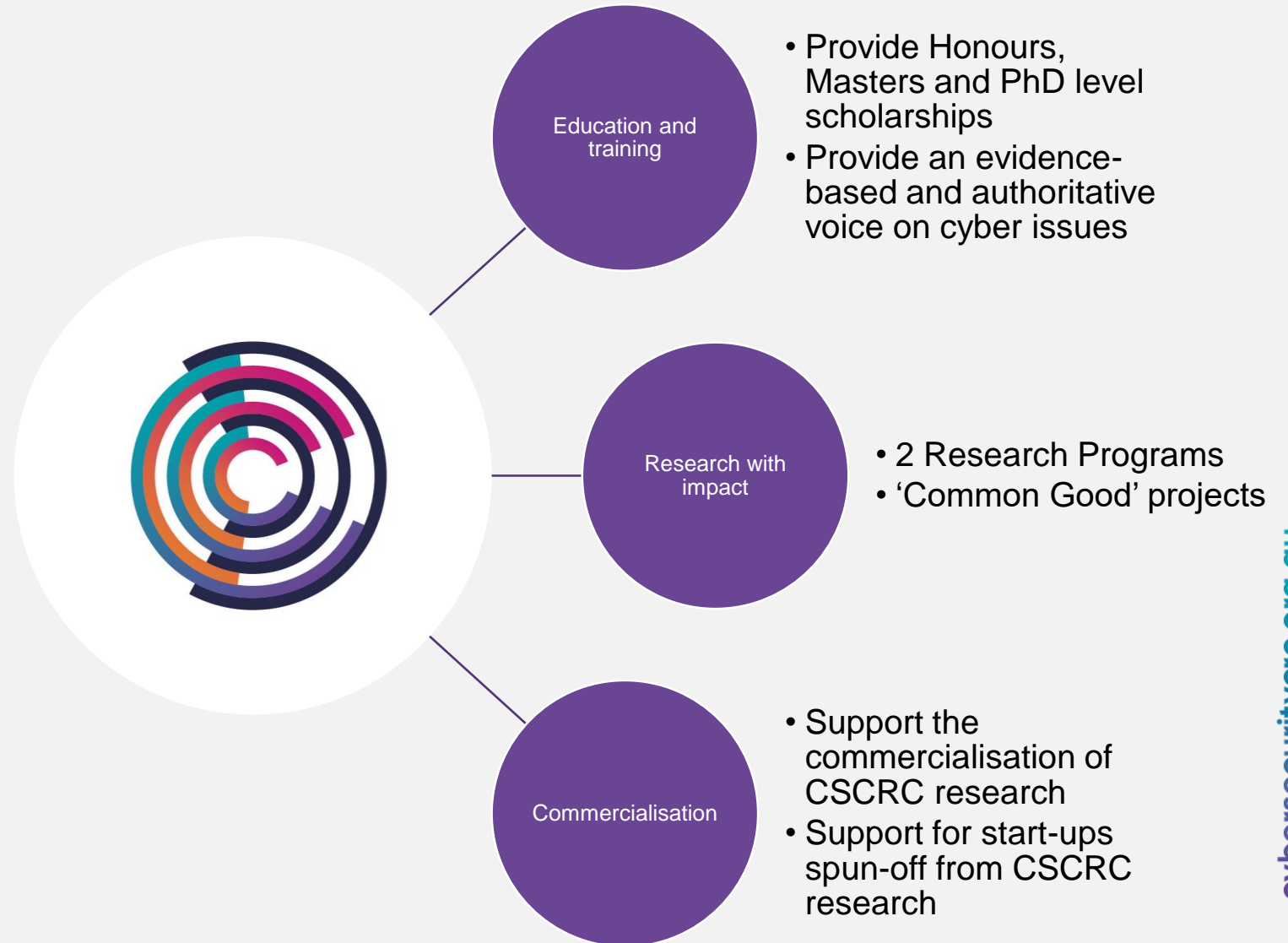


23 Participants

- ✓ *Multidisciplinary team from across Australia*
- ✓ *Universities representing almost every state in Australia*
- ✓ *Combination of State and Federal government participants across Finance, Policing and Law Enforcement, Intelligence and Defence*
- ✓ *Industry Participants range from large corporates like CISCO and Optus, to smaller innovative and award-winning businesses like Penten which deliver specialised cyber security products*

What do we do?

We bring together different skills sets and knowledge backgrounds to deliver innovative research, education and training outcomes that solve core challenges for public and private sector partners, with flow on effects for broader industry and community



Our Research Activities

Research Program 1: Critical Infrastructure Security

- 1. Resilient systems
- 2. Security and Configuration Management of IoT Systems
- 3. Development of Next Generation Authentication Technologies
- 4. Network Forensics and Responses to Emerging Threats
- **RP1 - Education and training (Cyber Capacity Building)**

Research Program 2: Cyber Security Solutions as a Service

- 1. Platform and Architecture for Cyber Security as a Service
- 2. Security Automation and Orchestration
- 3. Privacy Preserving Data Sharing in A Hyperconnected World
- 4. Real Time Monitoring of Cyber Threats
- **RP2 - Education and training (Training, Knowledge-Sharing and Impact)**

Common Good

- In addition to industry-led research projects, the CSCRC also undertakes 'common good' projects. These projects are not tied to any specific Participant but rather deliver cyber security solutions for a CSCRC-identified problem or need relevant to the Australian community.

The Broader Ecosystem

- **Cyber Security Ecosystem**

- CSCRC is a part of a broader whole including federal and state government strategies (e.g. South Australia's new Cyber Security Strategic Action Plan) and agencies (e.g. Australian Cyber Security Centre, Joint Cyber Security Centres) and initiatives (e.g. AustCyber), along with the private sector

- **Australia's Cyber Security Strategy**

- Theme 4: Growing the Cyber Security Sector
 - Produce outcomes in line with Theme 2: Strong Cyber Defences
- Theme 5: Cyber Smart Nation
 - Education and Training Program 1: Cyber Capacity Building
 - Education and Training Program 2: Training, Knowledge-Sharing and Impact

- **Other legislation**

- e.g. Research Program 1 (Critical Infrastructure as a Service) draws upon *Security of Critical Infrastructure Act 2017*



CYBER SECURITY
COOPERATIVE
RESEARCH
CENTRE

Cyber Security Research Centre Limited

ABN 11 605 454 144

ceo@cybersecuritycrc.org.au

02 6198 3473

Edith Cowan University
270 Joondalup Drive,
Joondalup WA 6027



cybersecuritycrc.org.au