

Prospectus

Round 23 Call Now Open

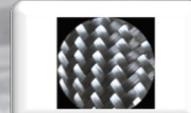


EOI Close: 24th Aug 2021



The Sovereign Manufacturing Automation for Composites

Cooperative Research Centre
(The SoMAC CRC)



“Advanced composites technologies targeting Australia’s
Sovereign Manufacturing Priorities”

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**Supported by Industry
Growth Centre**

Additional Background:

[Refer to Appendix](#) – AMAC's Track Record



Advanced Manufacturing of Composites

... addressing sovereign risks and building Australia's future capacity.

"Manufacturing is critical to Australia's economic future, to the prosperity of our regions and to the capabilities that underpin the success of so many other industries."

Prime Minister Scott Morrison

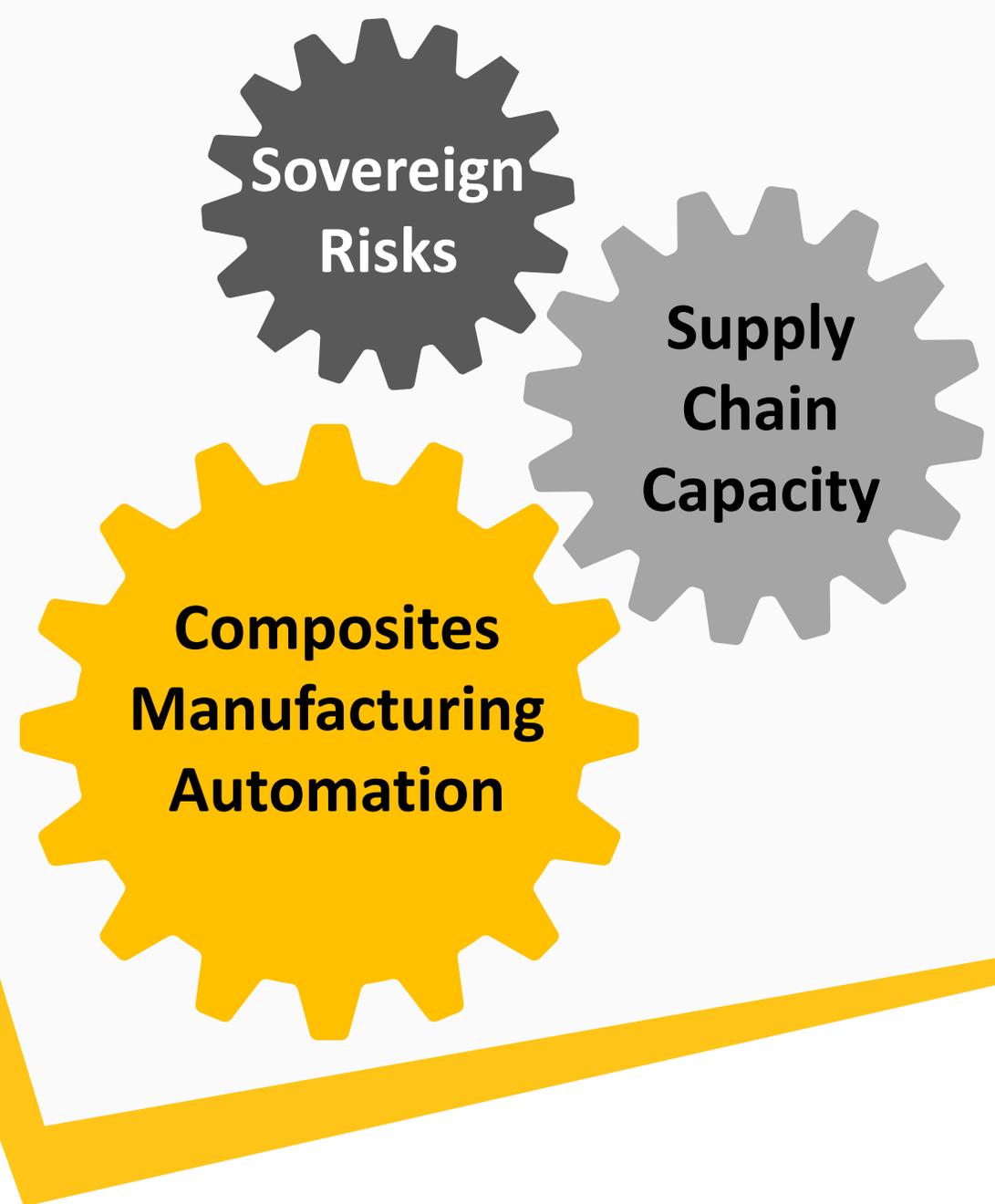
"By playing to our strengths, strategically investing and boosting the role of science and technology in industry, we can open up new markets and take more of our quality products to the world. This Strategy sends a clear signal that not only is Australia open for business, but we mean business."

Minister for Industry, Science and Technology

Minister Karen Andrews



Aligned with Growth Centre Priorities



Drivers & Track Record

The SoMAC CRC Drivers

- ✓ Localised manufacturing (sovereign secure) to offset international supply chain dependencies.
- ✓ Unprecedented demand for rapid prototyping of composites and promoting digital exports.
- ✓ R&D of composites to enable capacity – industry activity is growing across the target sectors!
- ✓ Higher Education – upskill and reskill the composites industry workforce and creating the next generation of ambassadors.
- ✓ Foundation partners include both international and Australian supply chains participants.



Professional Track Record

- ✓ The genesis of The SoMAC CRC follows on from the joint-successes of:
 - ✓ The ARC Training Centre for Automated Manufacture of Advanced Composites located at UNSW*.
 - ✓ Carbon Nexus at Deakin University
 - ✓ University of Southern Queensland
- ✓ Pre-existing and proven research expertise, industrial and academic partnerships in each of the target sectors below.
- ✓ AMAC's and Carbon Nexus's existing partners are likely to be among the foundation partners of The SoMAC CRC.

*Further details on AMAC's track record are included in the Appendix to this Prospectus.

Advanced composites technologies targeting Australia's Sovereign Manufacturing Priorities



Pre-Existing AMAC Sectors

Vision



Enabling Australia's manufacturing automation of composites manufacturing to address sector competitiveness, serve local and international demand and strengthen sovereign self-sufficiency.

In addition, positioning Australia as a "best in class destination" for locating advanced composites manufacturing capacity.



Enable 200% growth by 2030

Australia's manufacturing industry (current at 2020):

- contributes around \$100 billion to Australian GDP annually (Source: Australian Bureau of Statistics (ABS) Cat. No. 5206.0, March 2020)
- employs around 900,000 Australians (Source: ABS Cat. No. 6291.0.55.003, February 2020)
- contributes 26.4% of business expenditure on research and development (R&D) (Source: ABS Cat. No. 8104.0, 2017-18)

“2x@2030”

Add to Australia's capacity:

- ✓ \$100 billion to GDP
- ✓ 900,000 new jobs
- ✓ Enable 200% R&D investment
- ✓ Cross-Industry Sectors

Advanced composites technologies targeting Australia's
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Pre-Existing AMAC Sectors

Our Mission

- 1** Enabling composites automation to improve the competitiveness, productivity and sustainability of Australian industries.
- 2** Industry-focused education to upskill and reskill Australia's workforce, including the training of next- generation composites ambassadors.
- 3** Increasing research and development (R&D) capacity in small to medium enterprises (SMEs) to target high yield commercialisation outcomes, job growth & economic prosperity.

Technologies to enable composites automation targeting Australia's Sovereign Manufacturing Priorities





Why Invest?

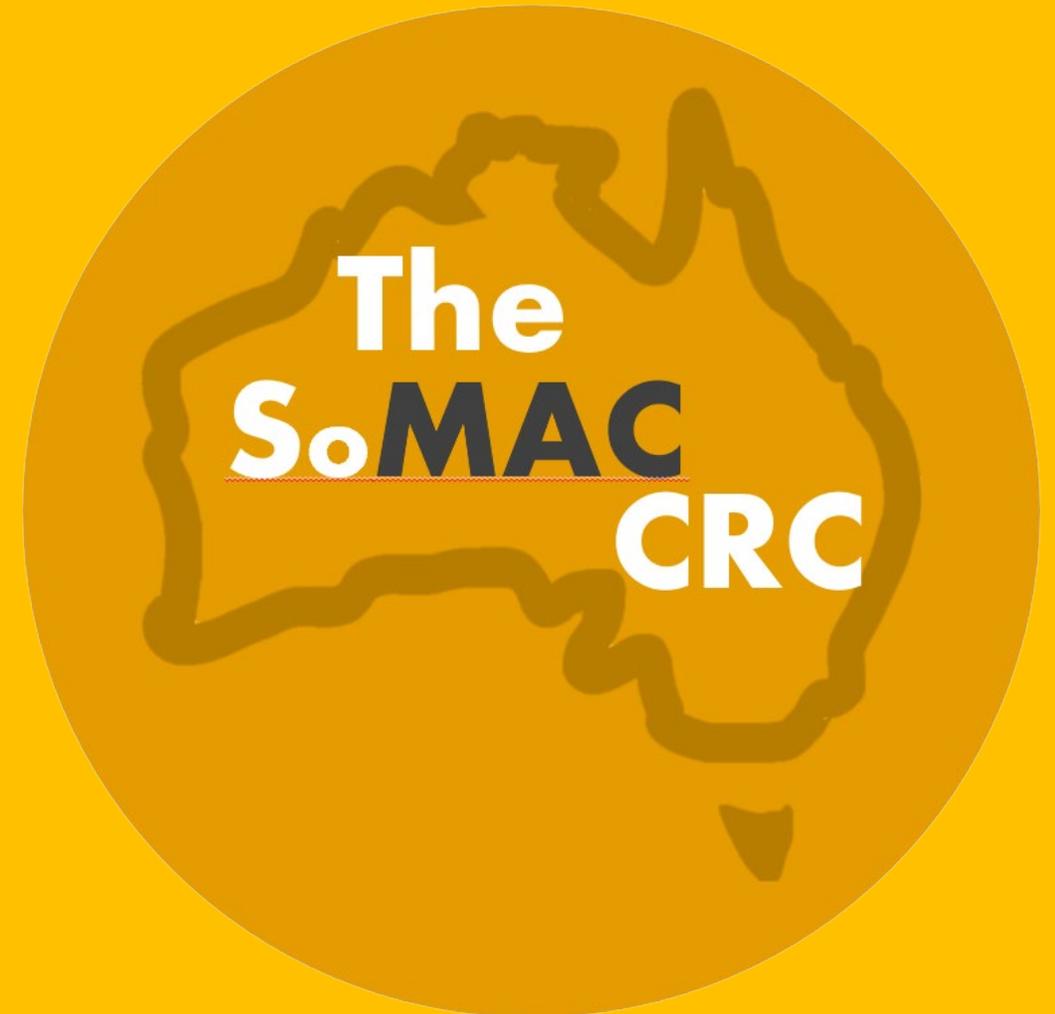
The Challenge

Australia's National Priorities have identified significant opportunities in manufacturing automation, and potential for industry growth across selected composites manufacturing sectors:

- Increase sovereign manufacturing capacity.
- Enable supply chains and develop critical mass in composites technologies for the cross-sector themes.
- Develop ambassadors of advanced composites manufacturing for the future.
- Attract international partners and draw upon Australia's regional stability, security and access to international markets.

There has never been a better time to position Australia as the destination of choice for manufacturing, enabled by advanced composites technologies.

National Response



The Opportunity

- ✓ The SoMAC CRC has the potential to immediately address Australia's national challenges, enabling manufacturing automation for the composites sector. In the post-Covid19 recovery, and for the future, facilitation of rapid innovation across multiple sectors.
- ✓ Australia has:
 - World-class investment and industry support for fostering innovative R&D programs.
 - Unprecedented opportunity to position for emerging "value-add" in the manufacturing sector.
 - An opportunity to attract international industry and stimulate local supply chains to deliver best in class outcomes, benefitting local communities.
- ✓ Upscale the existing success of working relationships with industry and academic partners and its operating model/governance.



Pre-existing AMAC Infrastructure

What could it look like?

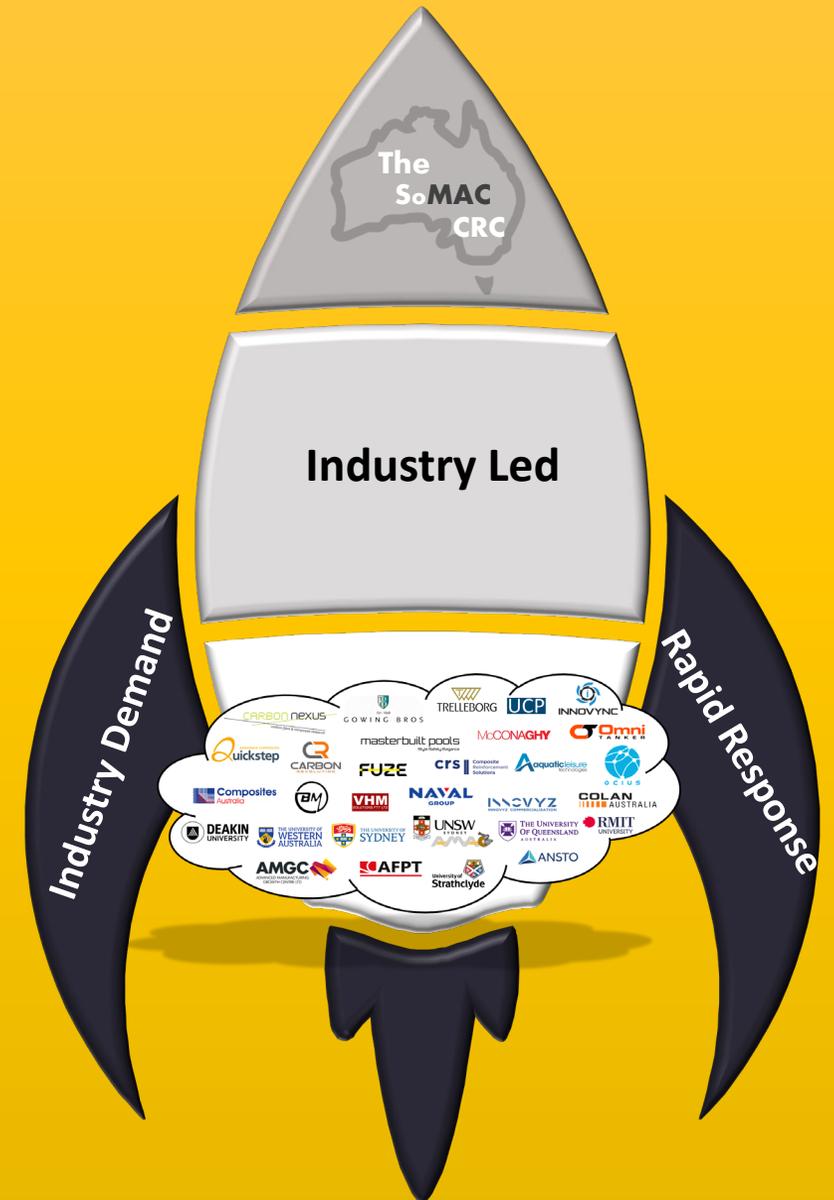
The SoMAC CRC will upscale pre-existing success by tapping into industry leadership, creating critical-mass, innovation ambassadors, strategic research partnerships and solidifying Australia's reputation for supply chain enablement and rapid prototyping of advanced composites technologies.

Automation of composites manufacturing for Australia to be a best-in-class destination for rapid innovation across multiple sectors.

Advanced composites technologies targeting Australia's Sovereign Manufacturing Priorities



Pre-Existing AMAC Sectors



What's in it for me?

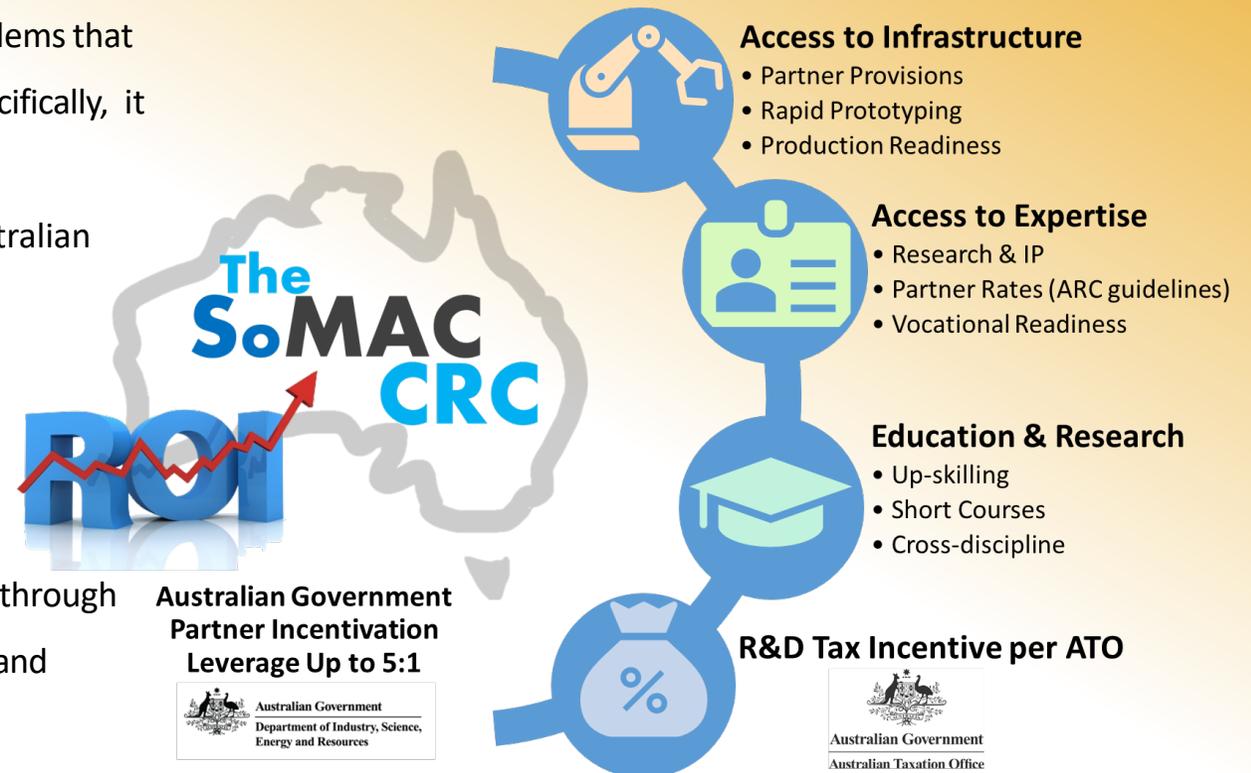
- 01** SoMAC CRC projects to enable automation of composites manufacturing capacity including access to available rapid prototyping facilities.
- 02** Rapid establishment of Australia's supply chains and the SoMAC CRC ecosystem.
- 03** Influence research themes and direction of the CRC program, subject to the scale of support.
- 04** Potential to extend your ecosystem and collaborate on innovative research programs, focused on automation, value-add & competitive advantage.
- 05** Access to Australia's innovation system through participation in CRC projects, industry direction and participation in Govt. forums.
- 06** Tailor CRC projects to suit your production and competitive challenges as they arise.
- 07** Through the CRC's academic partners, influence curriculum for the next generation of ambassadors for composites manufacturing technologies.
- 08** Investment leverage to preserve your future.

What is a CRC?

The Australian Government's Cooperative Research Centres (CRC) Programme is the largest and most popular program with industry. It supports industry-led collaborations between industry, researchers, government and the community. It's a proven model for linking industry with researchers to solve complex problems that have the potential to provide a major benefit to industry participants. Specifically, it aims to:

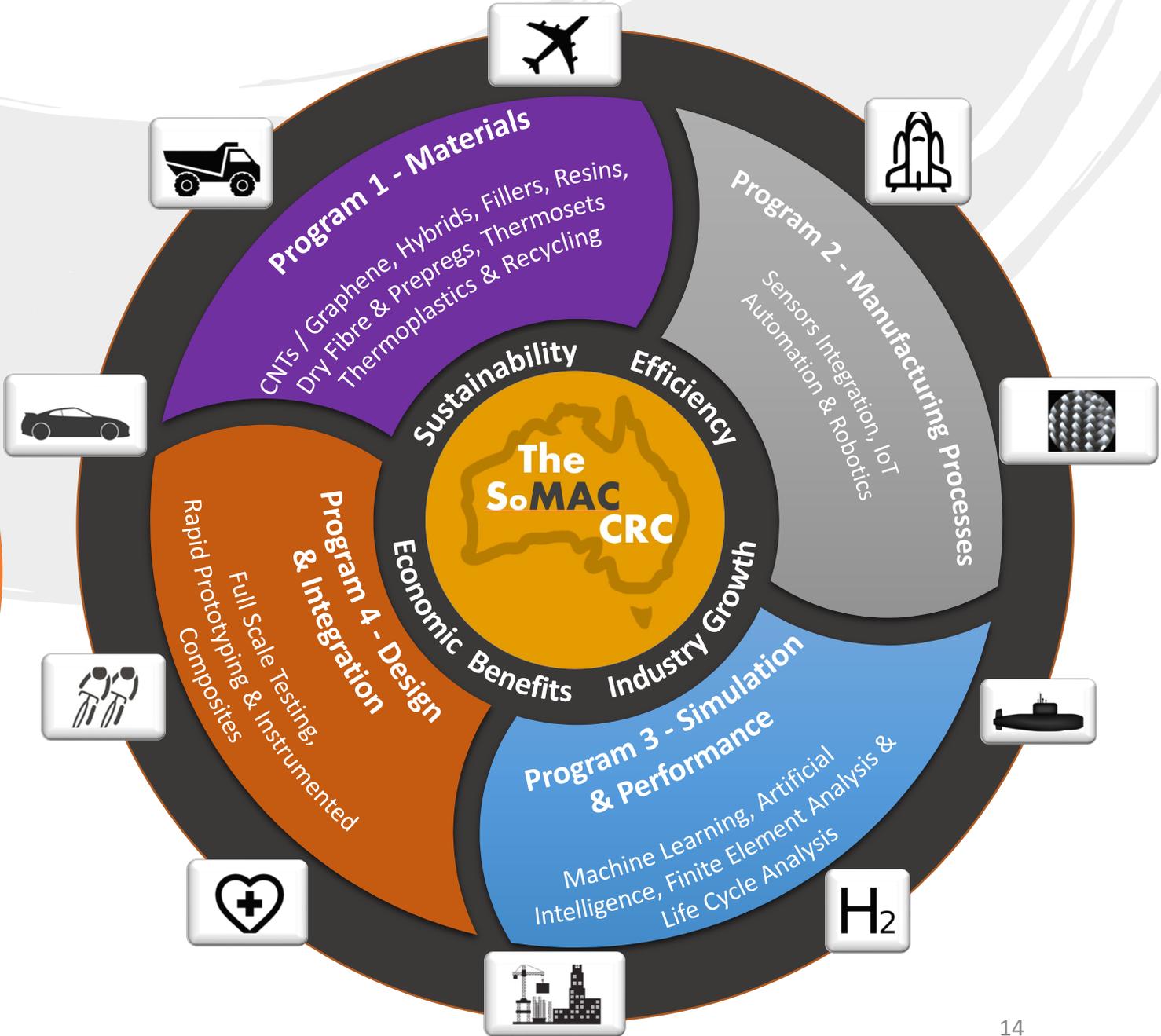
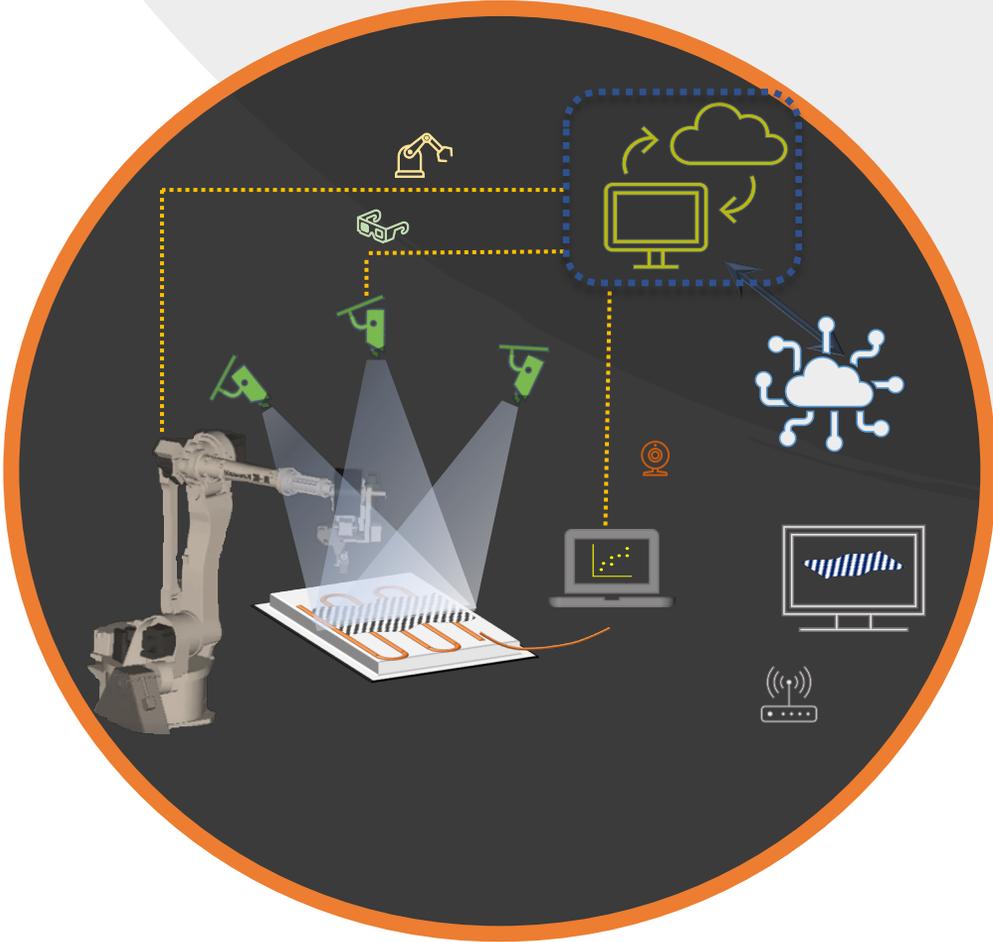
- improve the competitiveness, productivity and sustainability of Australian industries, especially where Australia has a competitive strength;
- deliver outcomes in line with government priorities;
- encourage and enable small and medium enterprise (SME) participation in collaborative research; and
- foster high quality research to help solve industry specific problems through collaborative research partnerships, and between industry entities and research organisations.

CRC's are funded for up to 10 years to catalyse collaboration between industry research and community sectors and to develop important new technologies, products and services.



Research Programs

Cross-Industry



Partners aligned with The SoMAC CRC (so far)



Expressions of Interest

SoMAC CRC has AMAC's proven operating / governance model, and from the onset, can draw upon its pre-existing partners, and composites related research to seed the ecosystem.

SoMAC CRC is ideal for industrial partners which have interest in tapping into Australia's best practice R&D model.

Supporting its ecosystem of industrial partners, SoMAC will also engage with industry associations, NGOs, investors, academic institutions plus Australian local, state and national government departments.

A letter requesting Expression of Interest and this Prospectus will combine with briefings to address specific project plans and thematic strategies.

Please return the signed Expressions of Interest as a matter of urgency. The Partner Templates will be provided upon receipt of the EOI.

Advanced composites technologies targeting Australia's Sovereign Manufacturing Priorities



Pre-Existing Sectors



Funding

Bidding for a CRC is a highly competitive and resource intensive process. There are several ways to get involved in the CRC; become a core*, supporting or entry participant. Flexible investment and tailored participation agreements will be developed to ensure that the CRC's business model meets the partner's needs. Core participants have an opportunity to shape the CRC's business model and direction.

Supporting and entry level participants commit a smaller amount of funding that may be made on a per-project basis. Flexible terms can be tailored to suit particular business requirements and situations.

Up-scaling investments from foundation partners increases allocation for CRC grant eligible projects.

*Academic core participants to be nominated according to the level of engagement secured with related industry partners. Otherwise, for lower-level industry engagements, academic institutions will be welcome to join the bid as a supporting participant. Once the cashflows for each node are confirmed, an apportioned annual subscription will apply for participation.

Join as a foundation partner.
Initial bid seed

~\$20k ea

Participants willing to invest in
the bid itself.

An additional subscription
due once request for stage 2
& beyond.

**\$5m cash contribution p.a.
via Projects**

\$500k-\$1 mil p.a.
(core industry participant)

\$250-499k p.a.
(supporting industry participant)

\$50-249k p.a.
(entry industry participant)

**Partner cash contributions
totaling**

\$50m

Targeting
\$5m p.a. over 10 years
(plus similar level of in-kind
contribution)

CRC budget total

\$150m+

Matching participant cash of \$5m p.a.
+ in-kind contributions equivalent to
\$5m p.a. + CRC funding \$5mil p.a.

Governance

The SoMAC CRC will offer flexible IP and commercialisation agreements. In principle, IP resulting from The SoMAC CRC funded projects will be owned by the respective CRC participants only and beneficially distributed according to the project shares and terms defined in individual Project Agreements. Companies sponsoring a project will retain pre-defined “option” rights in relation to the commercialisation of the IP developed in that project, with the CRC acting as a co-ordinator and arbitrator on IP matters.

The SoMAC CRC will be an incorporated company limited by guarantee with an independent and predominantly skills-based Board of Directors that will provide oversight of the CRC’s direction, activities and performance, as follows:

- Core participants will be represented on a Participants Committee and will also advise on Board positions.
- The CRC will retain a small, dedicated Secretariat to support operations, IP management and research co-ordination.
- The company will be a ‘not-for-profit’ company, and will seek charitable status, with no net tax is likely to be payable provided all income is expended on research, training and related activities. This will enable direct benefits to flow to participants and can allow flexible IP and licensing arrangements.



Timing and process

Bid Prospectus Launched

Bid prospectus circulated for comment and engagement, with key activities and critical dates communicated.

Stage 1: Expression of Interest

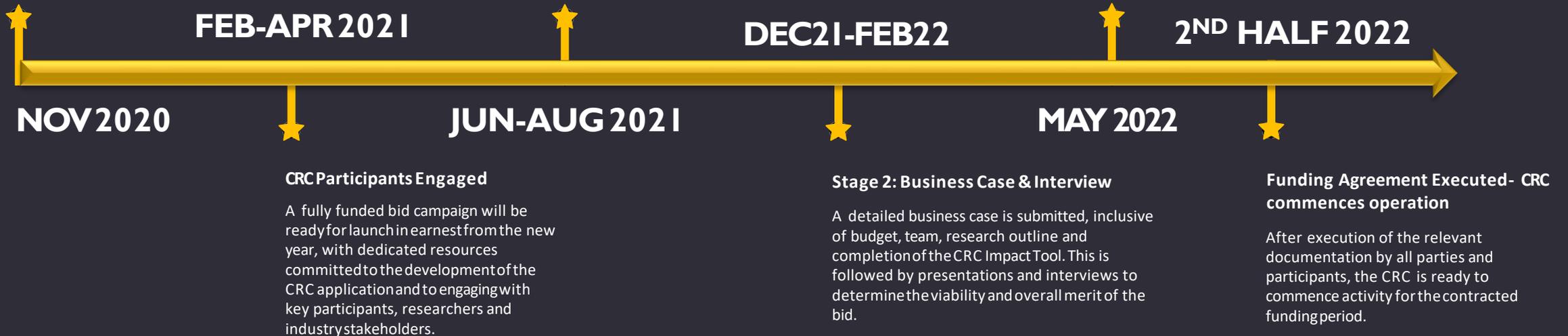
Open 30 Jun - Close 24 August 2021

Engagement with industry & research stakeholders will take place to define the bid detail, including scope, goals and partners, economic justification, while addressing the selection criteria.

Outcome Announced

Funding Offer Made & Negotiations Commenced

Once a funding offer is made and accepted, negotiations can commence with the Department of Innovation, Industry & Science regarding a Funding Agreement.



Next Steps

A

Familiarise yourself with the obligations for CRC participants (pg 17).

B

Please register your interest at composites@unsw.edu.au or talk to one of the bid team. We'll get in touch as soon as possible to hear your ideas, answer your questions and to discuss the scope and nature of your potential investment. **Please sign the version of the EOI with the signature block added (non-binding basis).**
Upon receipt of the signed EOI, the Partner Package will be provided, including forms required for the bid.

C

Once a general 'fit' has been determined, over the coming weeks we will host a series of workshops, webinars and 1-on-1 conversations to map out the research and commercialization program in more detail. To assist, templates are available for partners to detail specific application requirements and financial input into the development of the bid.

Bid Leadership

We're hitting the ground running and looking for innovative, like-minded research and industry participants willing to support the development of our bid and who want to be a part of this exciting research and commercialisation program.



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Contact Us

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[Link to download Prospectus and Expression of Interest](#)

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