

# NQSPARK

RESEARCH

HEALTH

DEFENCE

North Queensland Simulation Park



INTRODUCTION & KEY POINTS

Australia’s strategic environment is rapidly evolving. The North Queensland Simulation Park (NQ SPARK) consolidates and exploits the confluence of regional science, defence, health and knowledge expertise to construct an Advanced Environmental Simulation Facility (AESF) as the foundation infrastructure for a technology-oriented collaborative precinct, on a common boundary between Lavarack Barracks, James Cook University (JCU) and Townsville University Hospital (TUH). In so doing, it will significantly enhance Australia’s defence sovereign industrial capability while concurrently developing the north of the nation.



NQ **SPARK**

IMPROVED HOME-BASE TRAINING FOR NQ BASED FORCES

NQ **SPARK**

834 JOBS IN CONSTRUCTION

NQ **SPARK**

SUPPORTING CLINICAL HEALTH EDUCATION AND RESEARCH

NQ **SPARK**

SUPPORTING DEVELOPMENT OF DEFENCE INDUSTRY

NQ **SPARK**

739 JOBS WHEN OPERATIONAL

NQ **SPARK**

DELIVERING THE TOWNSVILLE CITY DEAL





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## ABOUT NQ SPARK

To be developed in two stages, NQ SPARK will be Northern Australia's primary collaborative industry hub focused on developing sovereign defence industrial capability with a focus on test, evaluation and certification and the collective Defence Science and Technology Group (DSG) STaR Shot.

It is proposed that NQ SPARK will accommodate an estimated 13,400m<sup>2</sup> of commercial industry space with Cubic specifying the need for 3,400m<sup>2</sup> in Stage 1 and significant interest demonstrated from within the Defence Industry and the Queensland Police Service (QPS) for Stage 1 and 2 tenancies.



Conceptual illustration only



## ABOUT THE AESF



### Clinical Simulation Centre

- Simulation enabled incident training, and human machine teaming (HUM-T) test, evaluation and systems assurance facility.
- A high capacity, cutting edge medical training and research simulation centre.

### C2 Simulator

- An agile command and control (C2) team performance research laboratory to perform research with Defence Science and Technology StarShot programs, CRCs as well as support the development of C2 training for emergency services, industry and international Pacific engagements.

### High Performance Computing

- A High-Performance Computing (HPC) capability providing high-capacity modelling, simulation and gaming systems for cost effective networked technology development and test and evaluation purposes.





Conceptual illustration only

NQ SPARK

## Innovation Zone

- It is proposed that NQ SPARK will create a nationally distributed industry, science and technology eco-system centred on simulation technology, digital visualisation and modelling with a focus on test, evaluation, certification and systems assurance, agile C2 and medical research and training.
- The business case consultation process identified significant interest in NQ SPARK Foundation Membership from:
  - Cubic
  - Saab
  - elmTEK
  - ReefWorks
  - JCU
  - TUH
  - University of New South Wales Defence Research Institute (DRI)
  - University of South Australia (Uni SA)
  - University of Newcastle (UoN)
  - Central Queensland University (CQU)



Provide the region with  
world-class facilities





NORTH QUEENSLAND'S STRATEGIC IMPORTANCE

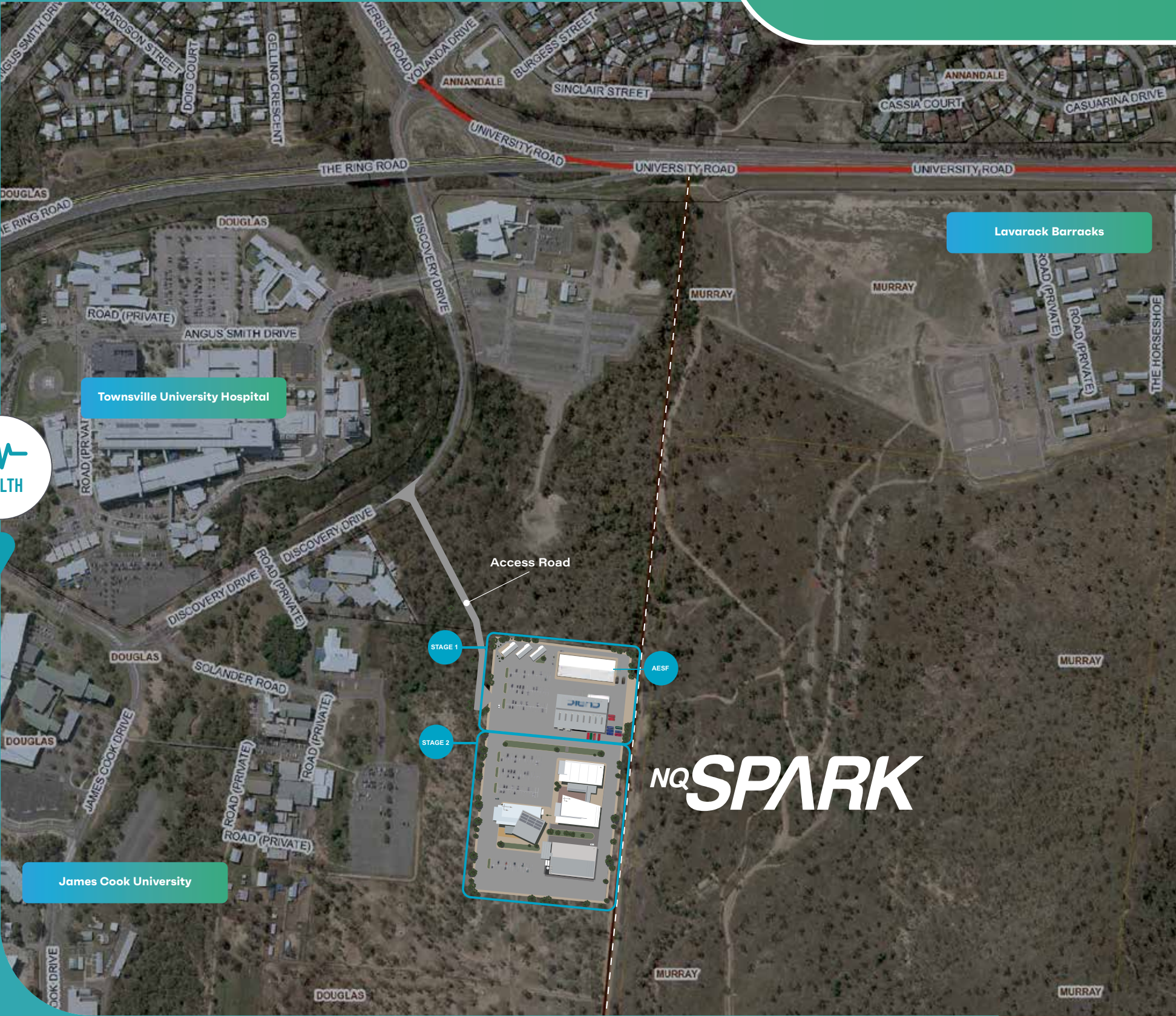
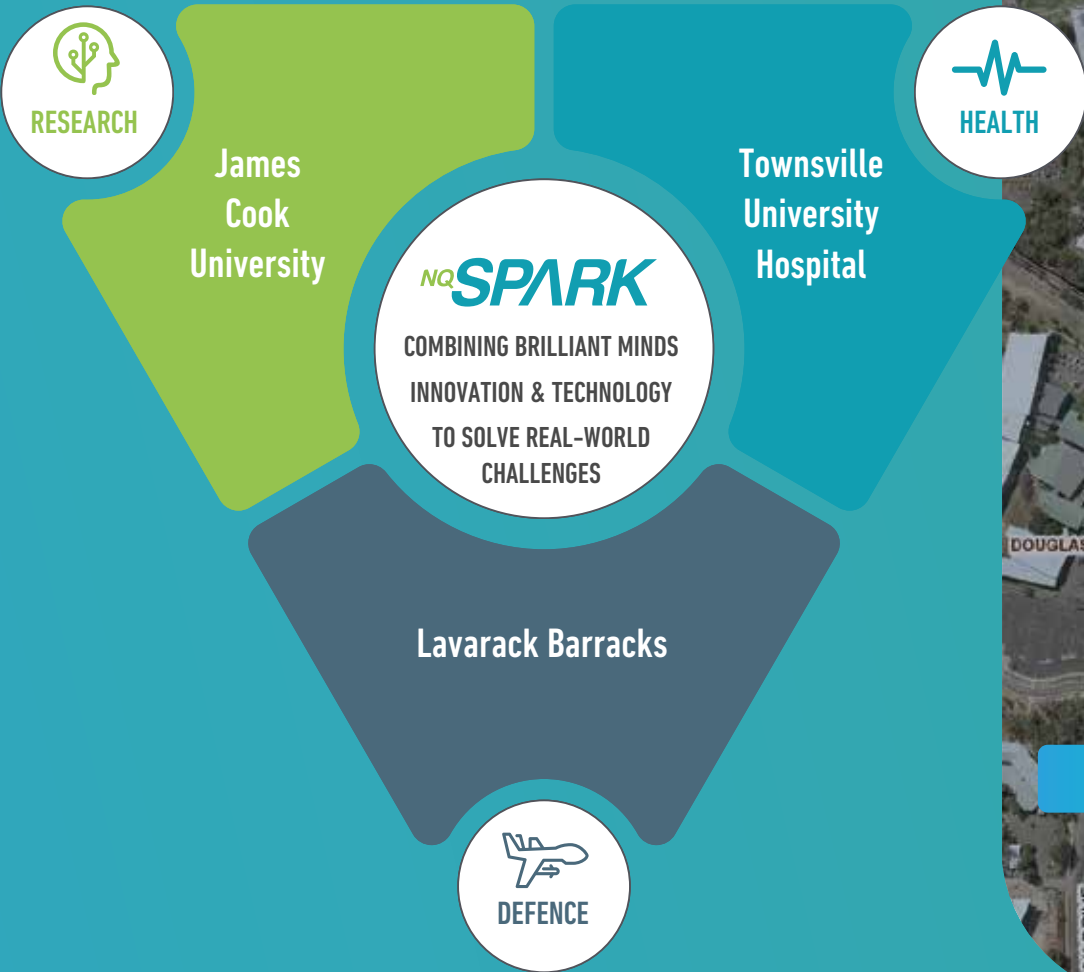
Townsville's strategic role as a major east coast Defence hub, with national and international capabilities as a home, force generation and operational mounting base, provide the region with unparalleled facilities and access to vast, dedicated and fully instrumented ranges including the Townsville and Greenvale Field Training Areas. Recognising the availability of uncongested and uncontested land and air space in the tropics, the Queensland Government and Industry are investing to develop aviation and space test and launch facilities at Cloncurry (The Queensland Flight Test Facility) and Abbot Point (Rocket Launch Facility). These facilities compliment the Australian Government's investment in the Australian Institute of Marine Science (AIMS) and the development of ReefWorks, offering development, design and testing services for marine technologies for both civilian and defence purposes.





TOWNSVILLE AND TROPIQ (UNIQUE COLLABORATIVE ENVIRONMENT)

This unique combination of defence, science and health knowledge provides an unparalleled collaborative opportunity in our nations north.

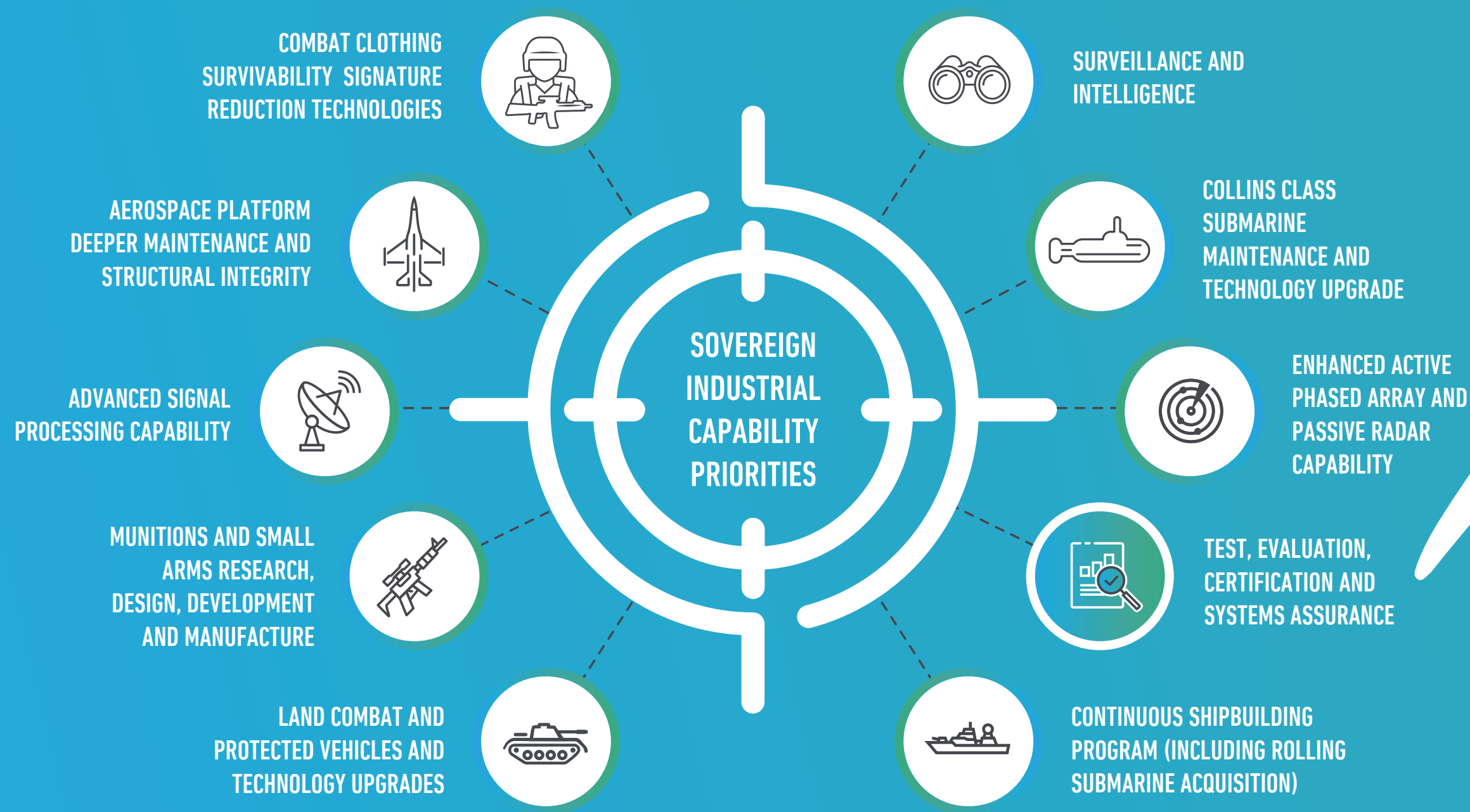


Conceptual illustration only



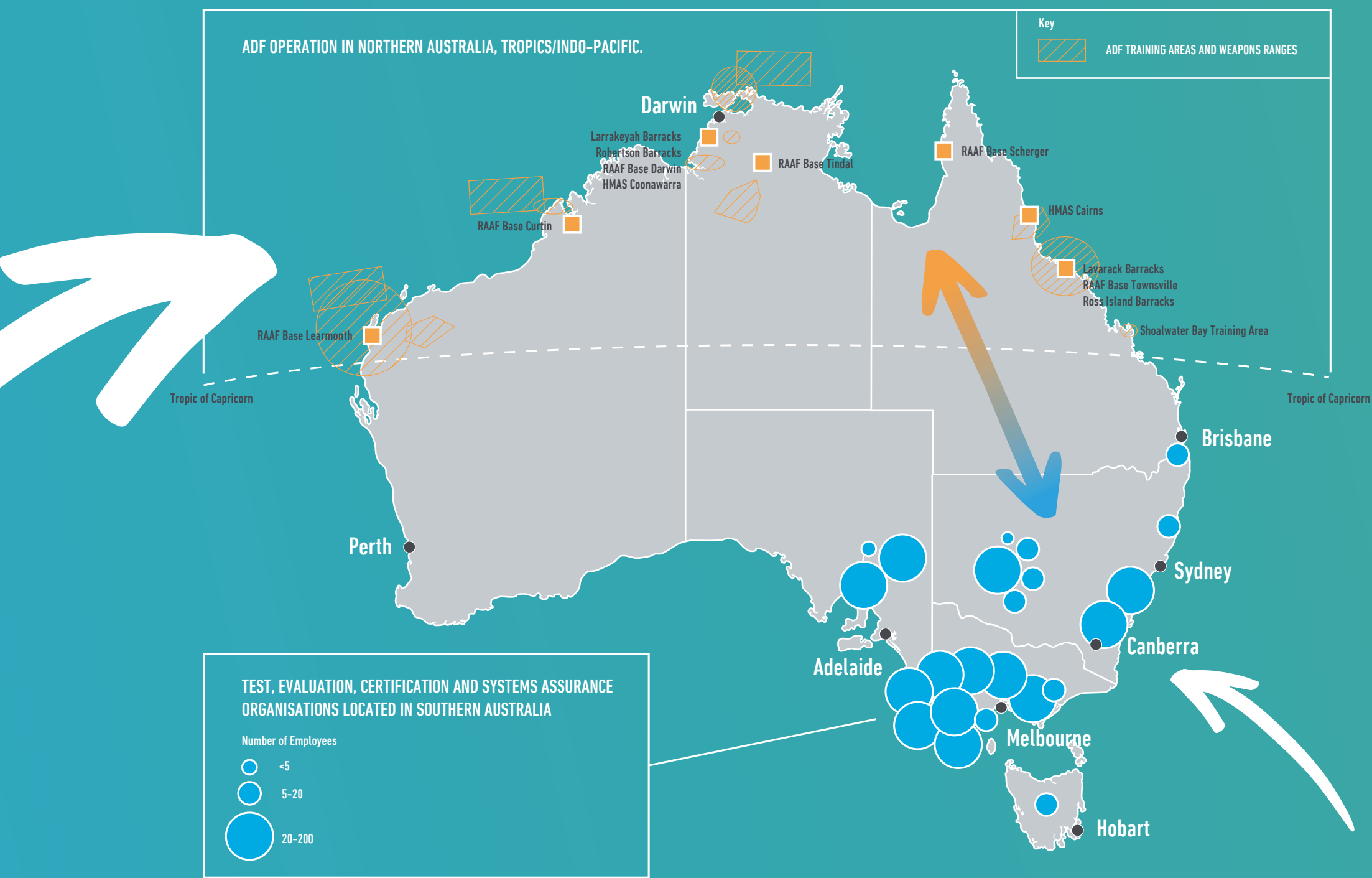
DEFENCE SOVEREIGN INDUSTRIAL CAPABILITY

In December 2020, the Department of Defence released the Test, Evaluation, Certification and Systems Assurance Industry Plan (Department of Defence 2020c), one of ten Sovereign Industrial Capability Priorities identified by the 2018 Defence Industrial Capability Plan.





WHY SIMULATION IS IMPORTANT



Source: Department of Defence 2020.

The purpose of this plan is to develop the sovereign test, evaluation, certification and assurance systems needed to provide the ADF with safe, effective and fit-for-purpose products and systems.

The plan identifies that these systems, capabilities and processes must incorporate the operational and physical environment that the ADF will likely operate within, i.e. Northern Australia, Tropics/ Indo-Pacific.

The plan also highlights the need to invest in more agile testing methodologies, including the use of models and simulations within live, virtual and constructive environments.

Of note is the fact that organisations involved within the defence industry value chain are located within the south-east of the nation. This reflects the agglomeration effect of government key strategic decisions, policy, functions and investments, particularly centred on Adelaide, Melbourne, Canberra and increasingly Brisbane. While this may be practical, these regions are not representative of Army’s disposition, nor the geographic and climatic conditions of the likely areas of ADF operation.

There is an obvious disconnect between the location of ADF technology development, Defence users and the potential area of ADF operation. NQ SPARK will address this.







Leveraging local strengths to diversify  
the Northern Australian economy and  
build Defence capability



ECONOMIC IMPACT ASSESSMENT

NQ SPARK is expected to deliver considerable economic benefits to the Townsville and Australian economy.



	CONSTRUCTION	2029-30	2044-45
 OUTPUT	<b>\$255 M</b> Incl \$170 M locally	<b>\$105 M</b> Incl \$89 M locally	<b>\$204 M</b> Incl \$171 M locally
 GRP	<b>\$121 M</b> Incl \$78 M locally	<b>\$58 M</b> Incl \$49 M locally	<b>\$112 M</b> Incl \$95 M locally
 WAGES & SALARIES	<b>\$75 M</b> Incl \$49 M locally	<b>\$37 M</b> Incl \$32 M locally	<b>\$71 M</b> Incl \$61 M locally
 EMPLOYMENT	<b>834 FTE</b> Incl 555 FTE locally	<b>379 FTE</b> Incl 330 FTE locally	<b>739 FTE</b> Incl 645 FTE locally



A wide-angle photograph of a large, modern hangar with a high, arched ceiling. Two fighter jets are parked on the floor, one on the left and one on the right. A person is standing in the center of the hangar, facing away from the camera. The hangar is illuminated by overhead lights, and the sky is visible through the open front of the hangar.

The Townsville region plays a fundamental  
part in the defence of the nation

NQ **SPARK**



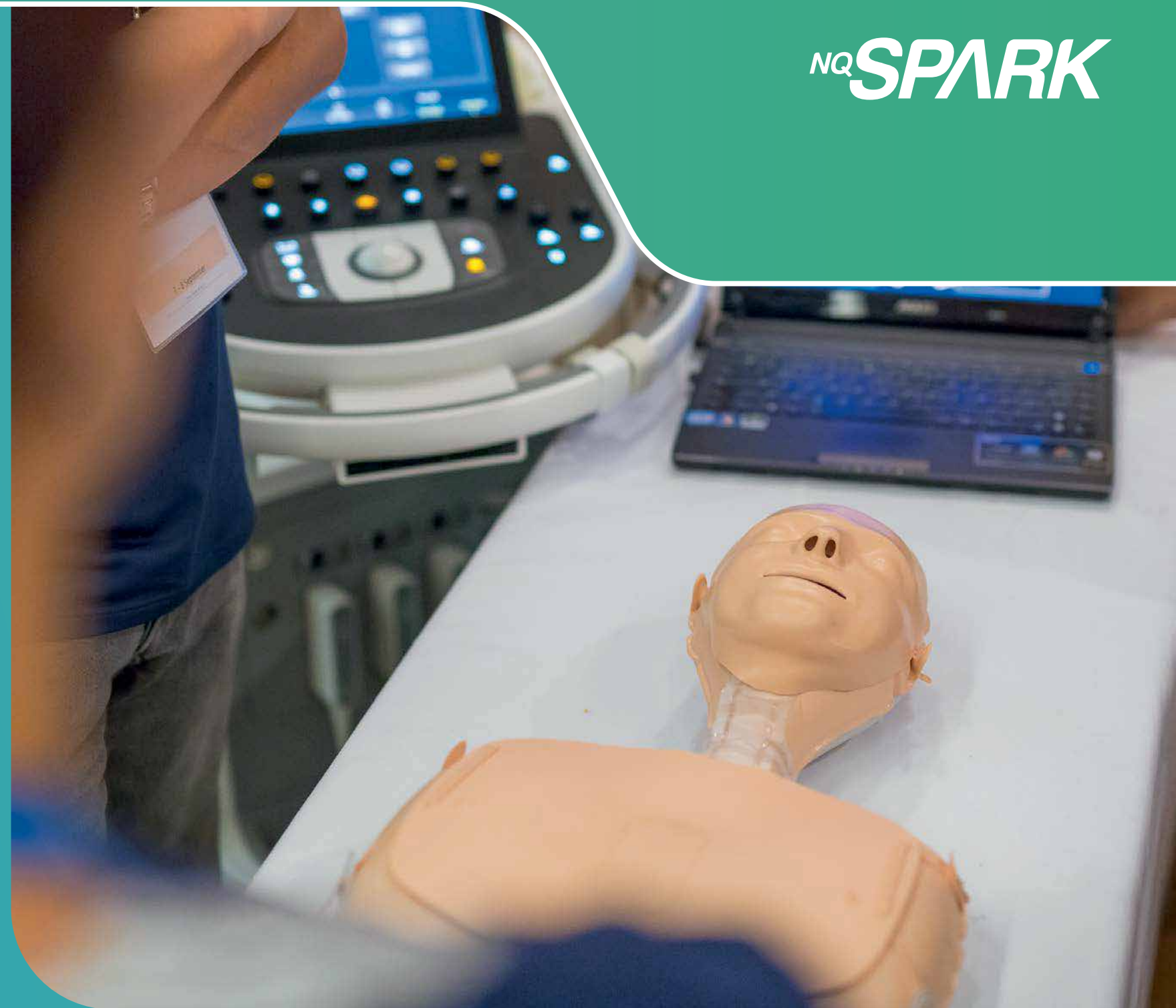
## PROJECT ASK AND FEASIBILITY

It is proposed that NQ SPARK Infrastructure and the AESF capital costs will be funded through the Townsville City Deal (\$30.4 million). The Australian Government would be responsible for funding for the AESF (\$25.1 million), with the Queensland Government funding infrastructure and connecting services (\$5.3 million).

\$1.5 million in initial working capital is required over the first 5 years from 2022-23, with the assumption made that this will be sourced through Advance Queensland or similar initiative.

It is proposed that commercial tenancy buildings, including Cubic Defence Australia (\$12.7 million), will be funded under the Northern Australia Infrastructure Facility (NAIF).

NQ SPARK will need to secure an average of \$2.5 million in Defence innovation funding annually to ensure the facility's long-term financial viability.



# NQ SPARK will be equipped with cutting-edge technology systems and training and research facilities



# Letters of support

OFFICIAL



**The Hon Melissa Price MP**  
Minister for Defence Industry  
Member for Durack

MB21-000368

David.burke@townsville.qld.gov.au

Dear Mr Burke

Thank you for your email of 04 March 2021 about the North Queensland Simulation Park. I understand the driver of this proposed initiative is the Townsville City Deal.

Simulation is one of a number of priority future investments for Defence to enable greater training and technological development to prepare Defence for the range of missions it will face now and in the future. Simulation parks can therefore provide opportunities for Australian industry to demonstrate its innovation and ability to support the Defence mission.

The development of a North Queensland Simulation Park enabling simulation training and employment and development of cutting edge technology is therefore aligned with Government's intent detailed in the 2020 Defence Strategic Update and 2020 Force Structure Plan. You are encouraged to continue to engage across the Defence Industry base to explore opportunities.

While I support this initiative in principle, the proposed location on the boundary of the Lavarack Barracks needs to be assessed as it may impact Defence activities. It is important to note that the Department of Defence undertakes regular reviews of its property needs to define and plan the estate to support current and future capability.

I suggest further engagement with the Department of Defence to fully understand this proposal and the potential impacts. The point of contact for this activity is:

Mr Adam Kalman,  
Director Estate Planning Branch  
Email: [adam.kalman@defence.gov.au](mailto:adam.kalman@defence.gov.au)  
Ph: 02 5109 6073.

Thank you for bringing this development to our attention.

Yours sincerely

Melissa Price

28 APR 2021

Parliament House Canberra ACT 2600

OFFICIAL



Australian Government



AUSTRALIAN INSTITUTE  
OF MARINE SCIENCE

TOWNSVILLE | DARWIN | PERTH

12 Aug 2021

Dear Sir/Ma'am,

I am writing to express my wholehearted support for the North Queensland Simulation Park (NQ SPARK): a ground-breaking, multi-user advanced environmental simulation facility based in Townsville.

As Australia's tropical marine research agency, the Australian Institute of Marine Science employs cutting edge technologies to enhance the capability and efficiency of our routine operations. AIMS is working with regulators and partners to establish a viable maritime autonomous systems industry that can meet Australia's growing marine research needs.

AIMS Townsville is home to ReefWorks – Australia's tropical marine technology test range. ReefWorks provides a streamlined pathway for transitioning marine technology innovation, especially marine autonomous systems, from development through to operations. It is the enabler for the agile development needed to meet the rapidly evolving marine autonomous systems sector needs.

The majority of test and evaluation activities for autonomous systems are conducted in a digital environment. ReefWorks is establishing a digital twin of its test ranges to meet the digital test environment need. The preferred option for ReefWorks to deliver this capability is through a partnership with NQ SPARK.

NQ SPARK provides a multi-domain simulation centre that not only will provide a formidable enhancement to Australian marine operations, but it will also facilitate cross-domain communication. For the first time, industries will be able to share technology advancements in a common language, independent of whether the domain is health, emergency response, land, sea, or air, through visual observation and collective understanding.

We are looking forward to working with NQ SPARK to ignite Australia's innovation in marine autonomy into a thriving market sector servicing the world.

Best Regards,

Melanie Olsen

ReefWorks Project Director  
Australian Institute of Marine Science  
<https://www.aims.gov.au>





Cubic Defence Australia  
336-342 Bayswater Road  
Garbutt QLD 4814

14 September 2021

David Lynch  
Senior Consultant  
AEC Group  
233 Flinders Street East  
Townsville QLD 4810

Dear David,

On behalf of Cubic, I am extremely pleased to provide this letter of support for the North Queensland Simulation Park (NQ SPARK) capability.

Cubic commenced its Australian operations in Townsville in 2006 and, since then, has consistently grown its operation as the demand for cutting edge simulation-enabled training and systems increases. Throughout that growth, we have maintained our National Headquarters in Townsville, including a substantial managerial and specialist technical workforce.

Cubic is proud to be based in North Queensland alongside the Australian Army's largest land base, nationally significant air and sea force projection capabilities and large, flexible training ranges. We foresee significant growth in investment into technology will be activated by the approval of the SPARK NQ capability.

Cubic's interest in NQ SPARK is as follows:

- NQ SPARK would be an ideal location for our Australian headquarters and we see value in securing the position of anchor tenant. This would mean relocating our current business operations from Garbutt to the NQ SPARK precinct. Cubic would also relocate its Systems Integration Laboratory to the new precinct.
- Cubic is a global developer of Exercise Control and situational awareness software. Many countries around the world use Cubic's software, which is currently developed in Scandinavia and New Zealand. Cubic is considering the location of an additional global Exercise Control software development and Live, Virtual, Constructive (LVC) Systems Integration and Test capability. We would look favourably upon the NQ SPARK location as a potentially suitable site.

Page 2

- The provision of technical and support services including managing the integration, development and operation of NQ SPARK if commercial solutions for those services were requested. Cubic has existing spectrum licensing for Band 1 Long Tier Evolution 4G / 5G network capability at the NQ SPARK location and would agree to make that spectrum available on a commercial basis to support system test, qualification and certification at the site.
- Cubic has a large cadre of former military and technical experts and is also Registered Training Organisation (RTO). In partnership with NQ SPARK academic stakeholders, Cubic is able to offer professional pathways to Townsville based veterans and technology graduates with simulation credentials by offering Certificate Level Vocational Education and Training (VET) courses such as the Certificate III in Digital and Interactive Technologies.
- Use of the facility to support Army Homestation Training, Human Machine Teaming qualification testing and delivery of Care of the Battle Casualty.

I believe NQ SPARK would be a game changing Defence industry activation capability, as well as a nationally significant academic development capability located in a strategically significant Townsville.

My team looks forward to working with the NQ SPARK stakeholder group to develop tech-enabled jobs and grow the professional capability of the veteran workforce in Townsville whilst developing sovereign capabilities in System Integration and Test and helping to improve the operational readiness of the ADF through projects based at NQ SPARK.

For additional information relating to Cubic's involvement with NQ SPARK, contact Mark Horn, Director Strategic Development, Oceania, 044 888 1341 or email at [mark.horn@cubic.com](mailto:mark.horn@cubic.com).

Yours sincerely,

**Mike Knowles**  
President  
Cubic Mission and Performance Solutions (CMPS)  
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+ 1 858-230-2941



# Letters of support



Saab Australia Pty Ltd  
ABN 98 008 643 212

23 August 2021

David Lynch  
Project Lead – Senior Consultant  
North Queensland SPARK

**Saab Australia – Letter of Interest for NQSPARK**

Dear David,

My team has briefed me on the NQSPARK initiative and I understand that you will submit your business case soon and aim to be operational in 2024. I would like to confirm that Saab Australia is supportive of this initiative. We will engage with your team and other partners to develop opportunities for collaboration and innovation.

There are a number of areas of interest for Saab Australia in the NQSPARK, enabled by our Deployable Health Care sovereign capability, our ambitions in the broader Deployable Infrastructure domain, Live Instrumented Simulation, and our Mixed Reality enhanced visualisation tools.

Please feel free to include this letter of support in your business case and I wish you success in securing the required funding. Marc Bryant and Amany Wahba will continue to be your primary contacts at Saab Australia. I look forward to seeing the NQSPARK develop into a world-class facility.

Yours sincerely,

**Andy Keough**  
Managing Director  
Saab Australia

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21 Third Avenue, Technology Park  
Mawson Lakes SA 5095, Australia  
Tel: +61 8 8343 3800  
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Townsville Qld 4811 Australia  
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Ms Tricia Brand  
Deputy Vice Chancellor  
Division of Services and Resources  
Telephone (07) 4781 4772  
International +61 7 4781 4772  
Email [dvcsr@jcu.edu.au](mailto:dvcsr@jcu.edu.au)

David Burke  
Defence Engagement Officer  
Future Cities  
Townsville City Council  
103 Walker Street  
Townsville QLD 4810

Via Email: [David.Burke@townsville.qld.gov.au](mailto:David.Burke@townsville.qld.gov.au)

Dear David

**RE: NQ SPARK and TropiQ**

James Cook University is very excited to be involved with this project both in terms of the facility being located on our Bebegu Yumba campus here in Townsville as part of the TropiQ initiative and the opportunities it will bring to JCU in our teaching and research endeavours.

Having the largest tertiary hospital in Northern Australia, the Townsville University Hospital, a world leading research university, James Cook University, and the largest defence base in Australia, Lavarack Barracks, all co-located, means that the opportunities that exist to leverage the significant investment already in existence in terms of expertise and infrastructure, makes this project particularly exciting.

The partnerships and collaborations which will flow from this initiative will create opportunities far into the future.

JCU is very supportive of this project and NQ SPARK complements the intent of TropiQ and we look forward to working with you to bring the project to fruition.

Yours sincerely

Tricia Brand  
Deputy Vice Chancellor Services and Resources





Townsville Hospital  
and Health Service

Mr David Lynch  
Senior Consultant  
AEC Group Pty Ltd  
E: [David.Lynch@aecgroup.com](mailto:David.Lynch@aecgroup.com)

Dear David

## Letter of Support – North Queensland Simulation Park (NQ SPARK)

I write to formally express the support of the Townsville Hospital and Health Service (THHS) for the proposed NQ SPARK project and our intention to be a significant user of the Clinical Practice facilities.

NQ SPARK will allow the THHS to defer future investment in highly specialised simulated training infrastructure and provide access to cutting-edge technology and simulation expertise, ensuring currency and delivery of training to our clinical workforce across the north.

Furthermore, I see the following as key motivations for our involvement in this project;

- Opportunity for NQ SPARK to support TUH's role as a tertiary hospital to collaborate, develop and deliver world's-best health technology and services to the north including into remote indigenous communities. Synergies & benefits that this work will provide to the Australian Government's commitment to support our friends & neighbours in the Pacific.
- The opportunity that NQ SPARK will provide for TUH to collaborate with the Defence industry in developing new technology and techniques within the area of defence medicine broadly and the development & evaluation of deployable health capability under JP 2060.
- NQ SPARK's status as a pioneering project under the TropiQ partnership & in developing TropiQ as a world-class centre for innovation in the tropic, with strong collaborative regional, national & international connections.

Yours sincerely,

Professor Kieran Keyes  
Health Service Chief Executive  
Townsville Hospital and Health Service

20/6/2021

Townsville Hospital and Health Service  
Queensland Government  
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100 Angus Smith Drive  
Douglas QLD 4814



DEFENCE RESEARCH  
INSTITUTE

16 September 2021

David Lynch  
Senior Consultant  
AEC Group Pty Ltd

Dear David

The UNSW Defence Research Institute is pleased to offer our support for the NQ SPARK project. We believe that this multi-user advanced environmental simulation facility will deliver significant collaboration opportunities for the Defence Research community in order to meet the needs of Defence.

The Institute is headquartered in Canberra at the Australian Defence Force Academy and is a continuation of UNSW's long-standing support to Defence research and education. The Institute provides a focal point for defence-related research collaboration, supporting our academic and industry to develop and deliver ground-breaking defence and security research for Australia.

The Institute, and UNSW writ large, are supportive of the NQ SPARK project. This project will significantly enhance Australia's sovereign Defence capabilities in an innovative and partnered environment. Many UNSW alumni from the Australian Defence Force Academy serve in Townsville within the years of their careers, in fact 50% of the Institute's staff served in Townsville during their military careers. I see Institute's involvement in the project is a natural progression of our collaboration with defence, academia, and industry.

Our research strengths, including in Data Science, Artificial Intelligence, Machine Learning and Systems Modelling will compliment the expertise of our partners in the NQ SPARK project. We also welcome the opportunity to connect the NQ SPARK with the UNSW Canberra Defence and Security Innovation Precinct being built at the new UNSW Canberra City campus in the heart of Canberra's innovation corridor.

We are looking forward to working with the NQ SPARK team and the other partners involved in bringing this vision to life.

Yours sincerely,

Paul Maddison  
Professor of Practice  
Vice Admiral (Ret'd)  
Director, UNSW Defence Research Institute

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Distribution: Limited Release to AEC Group Pty Ltd



## Letters of support



23 September 2021

Mr David Burks  
Defence Engagement Officer  
Townsville City Council  
Townsville Qld 4810

Dear David,

It is with great pleasure that I write you this letter of support for your NQ SPARK initiative. Your plans for a research, training and innovation campus in Townsville fit in perfectly with our mission, which is to provide facilities, support and skills to Queensland's researchers, especially those of our Members, including the James Cook University. Your campus will help us enormously to deliver our mission.

QCIF provides data-intensive eResearch infrastructure, services and skills development for our members and the NQ SPARK also aims to provide such platforms and staff to support research and innovation in the field of visualisation and training that will transform the capabilities of the University, the hospital and the Army in Townsville. The outputs that will flow from this campus will directly benefit Townsville and the surrounding areas in terms of generating inward investment, creating a cohort of trained and skilled practitioners and producing a flow of IP and products, services and jobs based on it. It will also help to accelerate positive sovereignty and security developments, economic impact and growth in employment across the State and the Country. For our part, every project that the NQ SPARK delivers will help QCIF to achieve its aims and benefit its members.

We were already co-ordinating with our Members and private sector partners to try and create a data-intensive R&D and innovation focussed centre for Queensland, based in part on the model of The Hartree Centre (<https://www.hartree.sfc.ac.uk/>) in Northwest England, a Centre which I succeeded in creating and delivering for the UK several years ago. Townsville is a very attractive possible home for this Centre and I am keen for us to seek opportunities for us to dovetail this initiative with the NQ SPARK.

As an experienced procurer and operator of many supercomputing systems and services, QCIF would be delighted to offer its services to you, both as 'buyer's friend' for your procurement, helping with sizing and defining the systems you will need, and then as operators of them for and on behalf of you and all of the NQ SPARK stakeholders and users.

Our shared objectives include bringing infrastructure, skills and investment to regional and rural Queensland to help to create high tech growth and spread the benefits of 'Industry 4.0' across all our Members and our State. We see multiple synergies between our existing plans and the NQ SPARK initiative. The opportunity to work with colleagues in industry, the health sector and the defence force only enhances our appetite to work with and co-invest in your campus. We wish you the very best in your efforts to secure the funding to deliver the NQ SPARK. We are certain that it will deliver all the benefits you have identified and QCIF will actively support it in every way it can.

Yours sincerely

Prof. John Bancroft  
Chief Executive Officer, QCIF

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ACN 624 639 406 | ABN 53 225 131 729



21 July 2021

To whom it may concern,

**RE: NQ SPARK**

CQUniversity is very supportive of NQ SPARK's ambition and intention to build a simulation training park in Townsville.

This project will support and assist the Australian Defence Force capabilities while at the same time benefiting the community by increasing economic prosperity for the broader region and by providing employment opportunities for local qualified workforce.

CQUniversity look forward to possible collaboration opportunities with NQ SPARK related to:

- knowledge and skills required by the defence industry.
- education initiatives – specifically those related to simulation technologies across a broad range of disciplines.
- collaboration on research initiatives.

The Townsville region possesses significant Australian Defence Force representation already offering world class research, development, training, and simulated service capabilities. The region is innovative and the ideal location for the establishment of NQ SPARK and further development of the Australian Defence industry.

As the only comprehensive university in Queensland, CQUniversity is excited to work with NQ SPARK in delivering both vocational and higher education programs and to partner and support, with the appropriate funding arrangements, the skills and capability development objectives of this project.

Prof Pierre Viljoen  
Associate Vice President (North Queensland & Hinterland) &  
Chair in Automation and Future Work Skills  
CQUniversity Australia

BE WHAT YOU WANT TO BE  
[cqu.edu.au](https://www.cqu.edu.au)

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28 July 2021

Matt Opie  
Director: Defence & Space  
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www.unisa.edu.au  
CRICOS Provider Number 00121B

Mr David Burke  
Defence Engagement Officer  
Future Cities  
PO Box 1268, Townsville QLD 4810

Dear David,

On behalf of the University of South Australia (UnISA), I am writing to express my support for the North Queensland Simulation Park (NQ SPARK) project.

As Australia's University of Enterprise, UnISA's strong record in research in the medical and defence sectors positions us well to provide support to the SPARK team.

We have a long standing relationship with the Defence Science and Technology Group (DSTG) with research projects in both health and defence in:

- Augmented & virtual reality
- Artificial intelligence
- Command and control and modelling and simulation.

We look forward to working with the other NQ SPARK stakeholders on this exciting project and continue to contribute to innovative solutions for the defence and medical sectors.

Yours sincerely,

Matt Opie  
Director: Defence & Space

UNISA.EDU.AU

AUSTRALIA'S UNIVERSITY OF ENTERPRISE



20.7.2021

Dear David,

Thank you for the invitation to learn about the SPARK project, I believe that the concept and proposal is excellent. From a regional perspective it draws upon Townsville's relationship to several major pieces of R&D and training infrastructure. The key partners are very well placed to contribute to the initiative and represent a well-rounded mix from several sectors. As the Director for the Centre for Advanced Training Systems, at the University of Newcastle, I have been extensively engaged with developing training solutions for large organisations, especially in the Defence and Health sectors. Our Defence projects regularly bring us to Townsville, where we employ several staff on research, test and evaluation projects. For the Centre, having a presence within the SPARK environment would be incredibly valuable for our engagement with first responder agencies in Queensland. To date, the bulk of our activity has been focused on developing improved training frameworks for responding to high consequence and time critical events. We see great value is contributing to the growth and sustainment of the SPARK ecosystem. The multi-purpose instrumented facilities would be useful for a diverse range of projects that we envisage both now and in the future.

Best regards,

Professor Rohan Walker  
Director | Centre for Advanced Training Systems  
University of Newcastle



# NQ SPARK

NQ SPARK is being developed under the TropiQ partnership with support from James Cook University, Townsville Hospital and Health Service, Townsville City Council and Queensland Government.



FOR MORE INFORMATION CONTACT:  
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TOWNSVILLE CITY COUNCIL  
TELEPHONE: 13 48 10  
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TropiQ