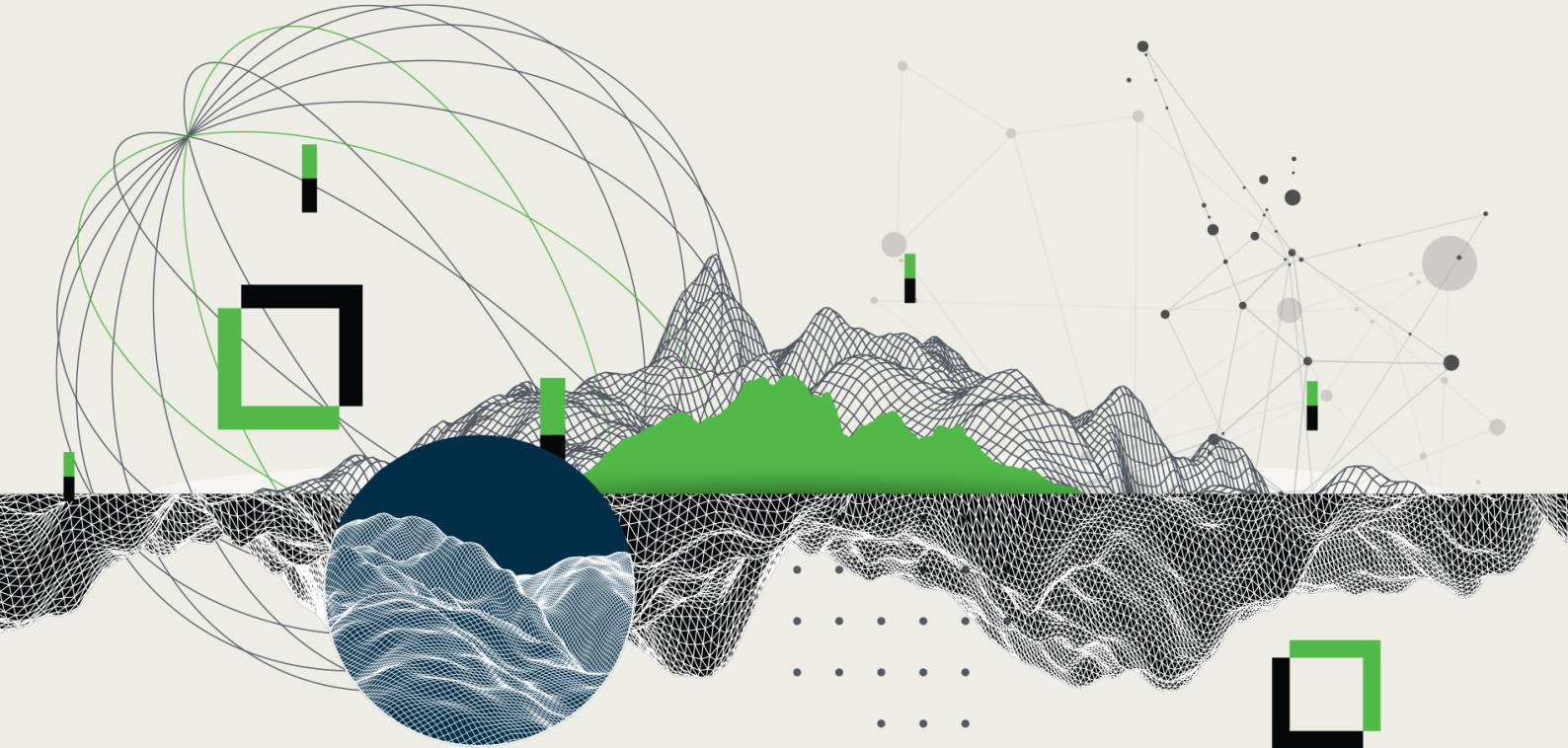


National Critical Care and Trauma Response Centre

# Research Strategy 2025-2030



# Research strategy on a page

## Vision

To be a world leader in strengthening health emergency preparedness and response nationally and internationally.

## Mission

Strengthen research capacity and capability for health emergency preparedness and response in the region.

## Research strategic pillars

### 1. Excellence and impact

*Foster scientific excellence and research impact in key strategic areas of NCCTRC's operations by creating systems and culture that promote excellence.*

### 2. Partnership and collaboration

*Expand and strengthen local, national and international research partnerships and collaborations.*

### 3. Capacity building

*Enhance organisational research capacity through education and training.*

### 4. Innovation

*Explore and investigate novel approaches to strengthen health emergency preparedness and response.*

# 1. Excellence and impact

*Foster scientific excellence and research impact in key strategic areas of NCCTRC's operations by creating systems and culture that promote excellence.*

## Key strategies:

- Align our research with NCCTRC's organisational strategic pillars (Table 1).
- Strengthen mechanisms to measures and report the impact (efficacy and effectiveness) of NCCTRC's operations.
- Enhance the use of Monitoring, Evaluation and Learning Frameworks (MELFs) within the organisation.
- Promote and reward exemplary performance by setting agreed targets, reviewing outcomes and expectations of continuous improvement.
- Evolve and strengthen our organisational research governance structure.
- Develop strategies and resources to accelerate the attraction of externally funded research grants fellowships and scholarships.
- Ensure research outcomes are translated into tangible improvements in national and international Emergency Medical Team (EMT) health policies, operational processes and procedures.

## Measures of success:

- Number of NCCTRC research projects initiated and completed.
- Number of evaluation frameworks established, initiated and completed with annual reporting.
- Evidence of integration of research into AUSMAT training pathways.
- Evidence of integration of research into regional training programs.
- Establishment of a Research Governance Committee (RGC) with annual reporting.
- Number of externally funded NCCTRC research programs.
- Evidence of adoption of novel operational processes in EMT disaster preparedness and health emergency response.

## 2. Partnership and collaboration

*Expand and strengthen local, national and international research partnerships and collaborations.*

### Key strategies:

- Strengthen inter-directorate research collaborations within the NCCTRC.
- Expand research collaborations with local, national and international partners, including universities, research institutions, government departments, non-governmental organisations (NGOs), international organisations, and global initiatives and partnerships.
- Consult with external expert working groups in EMTs and emergency preparedness and response.
- Encourage researcher participation in panels and committees of national health and medical research bodies.
- Ensure the RGC promotes equitable inclusion of local, national and international partners in NCCTRC research programs.

### Measures of success:

- Number of NCCTRC research programs and projects co-designed by multiple NCCTRC directorates, initiated and completed.
- Number of NCCTRC research programs and projects co-designed with national and international partners, initiated and completed.
- Number of collaborative health research networks with active NCCTRC participation, underpinned by formal partnership agreements.
- Evidence of NCCTRC research impact on the operations of local, national and international partners.

### 3. Capacity building

*Enhance organisational research capacity through education and training.*

#### Key strategies:

- Create systems and a culture that promote a research environment of excellence, diversity and inclusion.
- Establish research support frameworks that strengthen research capacity at the NCCTRC.
- Investment in the future pipeline of NCCTRC researchers through staff professional development.
- Actively partner and consult with organisations to improve EMT disaster preparedness and health emergency response through the formation of external research technical working groups.
- Leverage seed funding to support pilot research to secure larger national and international research grants.
- Leverage funding to support students from regional, national, and international universities and organisations to undertake research projects.

#### Measures of success:

- Number of research proposals received by the RGC for review.
- Number of expressions of interest (EoIs) received annually for membership of the RGC and technical research working groups.
- Number of research projects completed by NCCTRC staff.
- Establish and maintain an NCCTRC research administration database.
- Provision of research skills training for NCCTRC staff and evaluation of its value.
- Number of research-specific professional development activities completed by NCCTRC staff.
- Number of expert technical working groups consulted.
- Number of research students from external organisations involved in NCCTRC research projects.

## 4. Innovation

*Explore and investigate novel approaches to strengthen health emergency preparedness and response.*

### Key strategies:

- Encourage curiosity-led, stakeholder-led, community-led, and values-led research.
- Proactively support and promote innovation in disaster preparedness and health emergency response, including EMT operations and trauma management.
- Promote research innovation that responds to stakeholder needs by facilitating co-design of research activities with key national and international stakeholders and organisations.

### Measures of success:

- Number of stakeholder- and community-driven NCCTRC research projects.
- Evidence of adoption of newly developed technologies, methodologies and approaches in disaster preparedness and response operations.
- Number of co-authored research publications with partner organisations assessing the efficacy and effectiveness of novel technologies, methodologies and approaches in disaster preparedness and response operations.

Table 1: Alignment of NCCTRC **Research** Strategic Pillars with NCCTRC **Organisational** Strategic Pillars

NCCTRC <u>Research</u> Strategic Pillar NCCTRC <u>Operational</u> Strategic Pillar	1. Excellence and impact	2. Partnerships and collaborations	3. Capacity building	4. Innovation
1. Develop and support Australia's personnel in preparing for health emergencies	✓		✓	✓
2. As a centre of excellence, support Australia's health emergency response	✓	✓	✓	✓
3. Enhance Northern Australia's trauma and hazard response capability	✓	✓	✓	✓
4. Strengthen partnerships and collaboration	✓	✓	✓	✓
5. Ensure robust governance	✓	✓	✓	