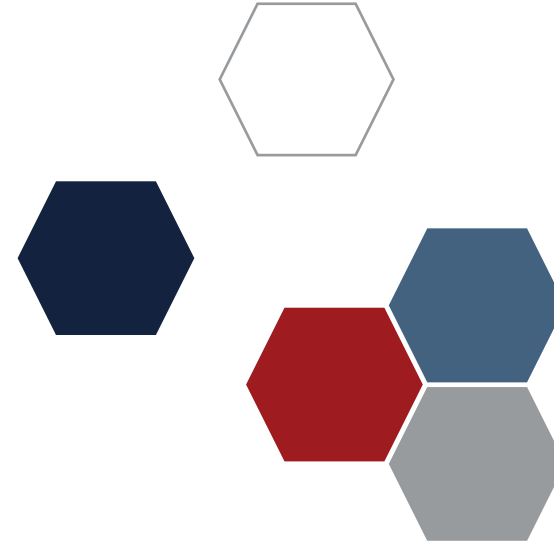




Australian Government  
Department of Health



# Medical Research Future Fund

MRFF Webinar  
12 April 2022

Dr Masha Somi, CEO of Health and Medical Research Office  
Ms Sue MacLeman, Chair of MTPConnect Board

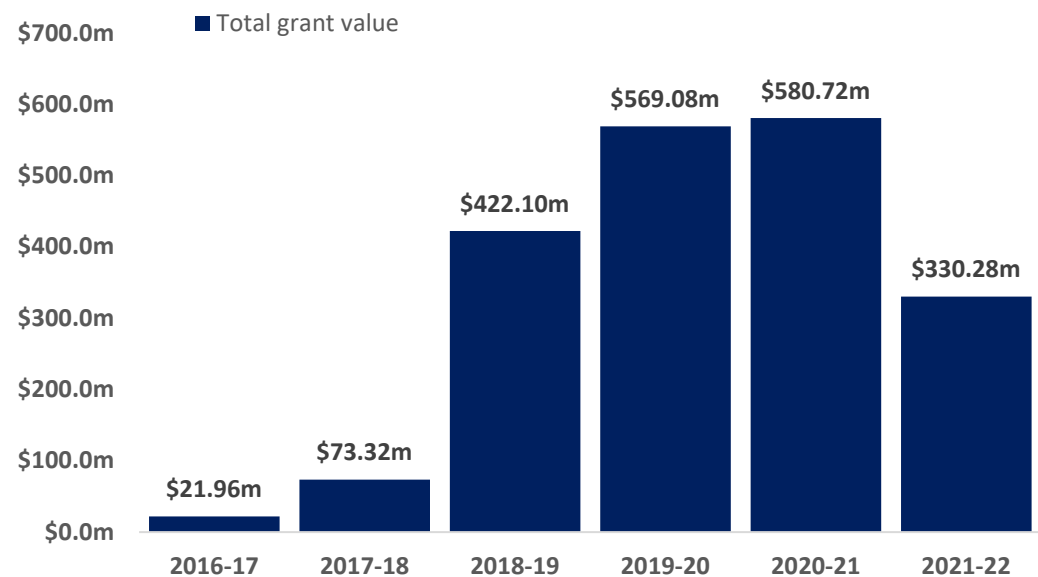
# Contents

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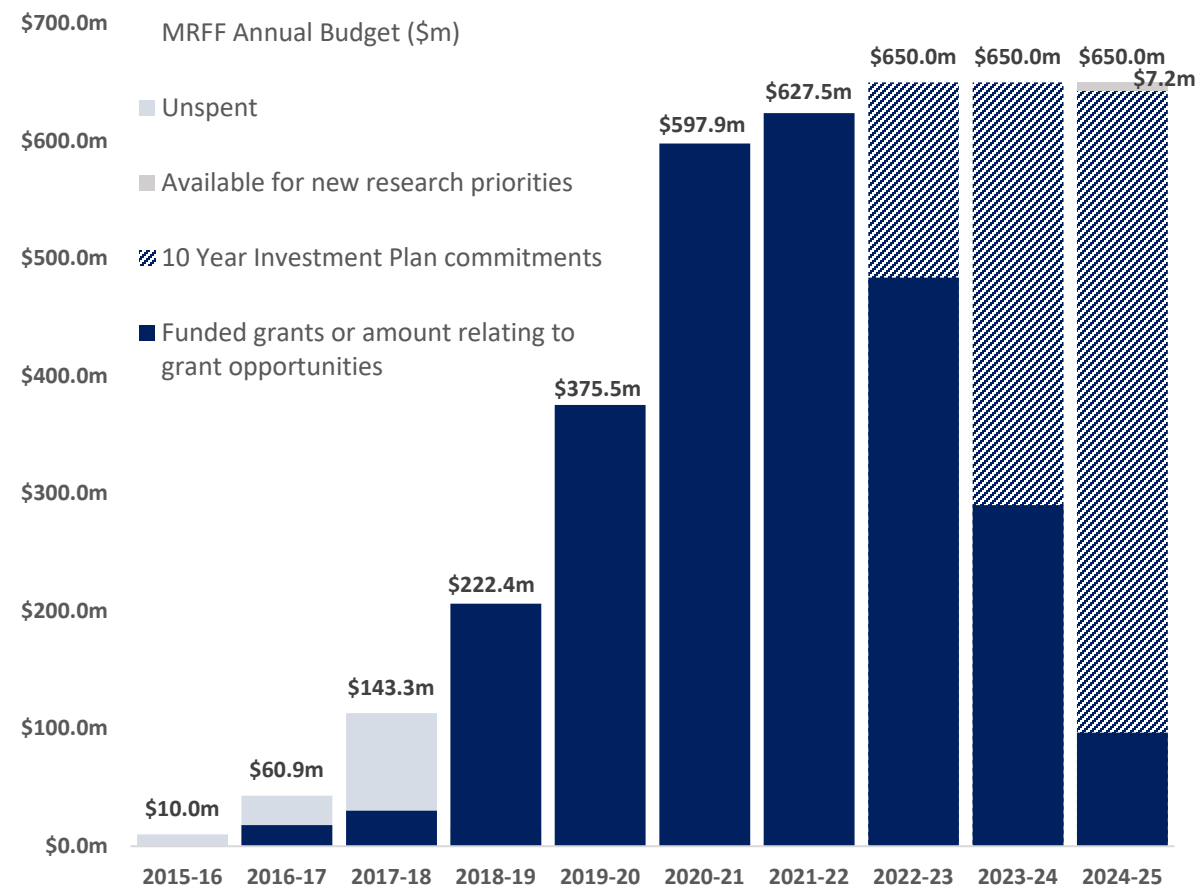
- 1. The Medical Research Future Fund (MRFF) Update**
  - I. MRFF activities – Grants awarded and expenses
  - II. 2<sup>nd</sup> MRFF 10-year Investment Plan (2<sup>nd</sup> Plan)
  - III. Activities under the MRFF’s Medical Research Commercialisation initiative
- 2. MTPConnect**
  - I. Australia’s MTP sector
  - II. MRFF programs operated by MTPConnect
- 3. MRFF’s Medical Research Commercialisation initiative**
  - I. Early Stage Translation and Commercialisation Support
  - II. BioMedTech Incubator Grant Opportunity
- 4. Biomedical Translation Fund**
- 5. MRFF Program Updates and News**
  - I. MRFF Gender Data Report
  - II. New Grant Opportunities
  - III. MRFF Accelerator Grants

# MRFF grants awarded

- \$2 billion across a total of 742 grants already funded (as at 6 April 2022)
- Funds are available in future years for allocation to priorities



# MRFF budget and expenses



Budget and expenses current as at 28 Feb 2022

# 2<sup>nd</sup> MRFF 10-year Investment Plan

- **\$6.3 billion over 10 years (2022-23 to 2031-32).**
- Retains and carries forward all funding allocated from existing 1<sup>st</sup> 10-year Investment Plan (2018-19 to 2027-28).
- Retains the current **4 funding themes** and **20 initiatives**.
- The new 10-year Investment Plan is available at <https://www.health.gov.au/campaigns/mrff>



Australian Government  
Department of Health

Medical Research Future Fund  
2<sup>nd</sup> 10-year Investment Plan  
2022-23 to 2031-32

### OVERVIEW

The Australian Government has committed \$6.3 billion for health and medical research through the 2<sup>nd</sup> 10-year Investment Plan (the 2<sup>nd</sup> Plan) for the Medical Research Future Fund (MRFF). The 2<sup>nd</sup> Plan provides funding for 21 initiatives between 2022-23 and 2031-32, to support lifesaving research, create jobs, strengthen the local industry base for commercialising research and innovation, and further grow Australia’s reputation as a world leader in medical research.

The 2<sup>nd</sup> Plan builds on investments (actual and committed) made through the 1<sup>st</sup> 10-year Investment Plan, which was announced in the 2019-20 Budget and totalled \$5.1 billion from 2018-19 to 2027-28. Commitments made in the 1<sup>st</sup> 10-year Investment Plan will be carried forward and remain available for expenditure as part of the 2<sup>nd</sup> Plan. The 2<sup>nd</sup> Plan provides flexibility for the MRFF to continue to be responsive to emerging health challenges while maintaining focus on addressing key health challenges. The 2<sup>nd</sup> Plan continues a strong focus on funding activities that will stimulate health and medical research across the entire research, translation and commercialisation pipeline.

### CONTEXT

Developing new drugs, devices, treatments and cures can take more than a decade. The 2<sup>nd</sup> Plan gives researchers and industry certainty and direction so that they can address areas of unmet need and excel in collaborative and transformative research.

MRFF activities are based on national priorities identified by the Australian Medical Research Advisory Board following a national consultation process. Activities put patients at the core and focus on translating research into practice so that all Australians can benefit.

### FUNDING THEMES AND INITIATIVES

MRFF funding is directed into 4 themes:

 Patients	This theme aims to bring benefits to patients, including supporting life-changing clinical trials, funding innovative treatments and advanced health care and medical technologies
 Research Missions	MRFF Research Missions (Missions) are large programs of work that bring together key researchers, health professionals, stakeholders, industry partners and patients to tackle big health challenges
 Researchers	This theme aims to support Australian researchers, including to help build their skills and capacity, support their research in priority areas and assist them to develop and bring new research discoveries to the market
 Research Translation	This theme aims to translate research outcomes into practice by building the evidence base to support the adoption of best practice care into health care delivery

There are 21 initiatives under these themes, funded over 10 years to harness innovation, provide vital infrastructure, improve patient outcomes, and generate jobs and economic growth.

Today’s research is tomorrow’s health care. There is no better way to ensure Australians receive the highest quality health care than by investing in Australian medical research.

# Update to 10-year Investment Plan (2<sup>nd</sup> Plan)

- Includes one new initiative and an **additional \$3.1 billion** funding:
  - **\$384.2** million for a new MRFF initiative:
    - supporting early to mid-career researchers to enable them to work on greatest health challenges
  - **\$1.2 billion** for enhancing and expanding existing MRFF initiatives:
    - Clinical Trials Activity initiative
    - Preventive and Public Health Research initiative
    - Primary Health Care Research initiative
    - Medical Research Commercialisation initiative
  - **\$1.5 billion** for extending existing MRFF initiatives from 2028-29 to 2031-32:
    - \$944 million for extension:
      - ❖ Emerging Priorities and Consumer Driven Research initiative
      - ❖ Global Health initiative
      - ❖ Frontier Health and Medical Research initiative
      - ❖ Clinician Researchers initiative
      - ❖ Rapid Applied Research Translation initiative
      - ❖ National Critical Research Infrastructure initiative
      - ❖ Research Data Infrastructure initiative
    - \$590.8 million for extending existing MRFF Missions that demonstrate outcomes, or creating new Missions to address emerging priorities.



# Update to 10-year Investment Plan (2<sup>nd</sup> Plan)

- The 2<sup>nd</sup> Plan includes a section on *Alignment with the MRFF Strategy and Priorities*.
- This is a high-level overview of how the MRFF initiatives:
  - align with and contribute to the strategic objectives of the current 2021-26 Strategy.
  - align with the current 2020-22 Priorities (and also the new draft Priorities).

2020-2022 priorities	21 MRFF initiatives
Consumer-Driven Research	<ul style="list-style-type: none"> <li>• Emerging Priorities and Consumer-Driven Research</li> <li>• Preventive and Public Health Research</li> </ul>
Translational Research Infrastructure	<ul style="list-style-type: none"> <li>• Early to Mid-Career Researchers</li> <li>• National Critical Research Infrastructure</li> <li>• Research Data Infrastructure</li> <li>• Frontier Health and Medical Research</li> <li>• Medical Research Commercialisation</li> <li>• Genomics Health Futures Mission</li> <li>• Researcher Exchange and Development within Industry</li> <li>• Stem Cell Therapies Mission</li> <li>• Rapid Applied Research Translation</li> </ul>
Comparative Effectiveness Research	<ul style="list-style-type: none"> <li>• Clinical Trials Activity</li> <li>• Preventive and Public Health Research</li> </ul>
Public Health Interventions	<ul style="list-style-type: none"> <li>• Preventive and Public Health Research</li> <li>• Million Minds Mental Health Research Mission</li> <li>• Cardiovascular Health Mission</li> <li>• Australian Brain Cancer Mission</li> <li>• Clinical Trials Activity</li> </ul>
Primary Care Research	<ul style="list-style-type: none"> <li>• Primary Health Care Research</li> </ul>
Clinical Researcher Capacity	<ul style="list-style-type: none"> <li>• Clinician Researchers</li> <li>• Early to Mid-Career Researchers</li> <li>• Frontier Health and Medical Research</li> <li>• Researcher Exchange and Development within Industry</li> </ul>
Aboriginal and Torres Strait Islander Health	<ul style="list-style-type: none"> <li>• Indigenous Health Research Fund</li> </ul>
Ageing and Aged Care	<ul style="list-style-type: none"> <li>• Dementia, Ageing and Aged Care Mission</li> </ul>
One Health – Antimicrobial Resistance	<ul style="list-style-type: none"> <li>• Global Health</li> </ul>
Global Health and Health Security	<ul style="list-style-type: none"> <li>• Global Health</li> <li>• Emerging Priorities and Consumer-Driven Research</li> </ul>
Drug Repurposing	<ul style="list-style-type: none"> <li>• Australian Brain Cancer Mission</li> <li>• Preventive and Public Health</li> </ul>
Digital Health Intelligence	<ul style="list-style-type: none"> <li>• National Critical Research Infrastructure</li> <li>• Research Data Infrastructure</li> <li>• Traumatic Brain Injury Mission</li> </ul>

# Update to 10-year Investment Plan (2<sup>nd</sup> Plan)

- The 2<sup>nd</sup> Plan includes snapshots of descriptions for each **MRFF funding theme**, including:
  - funding allocated to date (2016-17 to 2021-22)
  - funding allocated from 2022-23 to 2031-32
  - total funding from inception of the MRFF through to 2031-32.

## MRFF FUNDING THEME - RESEARCH TRANSLATION

This theme aims to translate research outcomes into practice by building the evidence base to support the adoption of best practice care in to health care delivery.



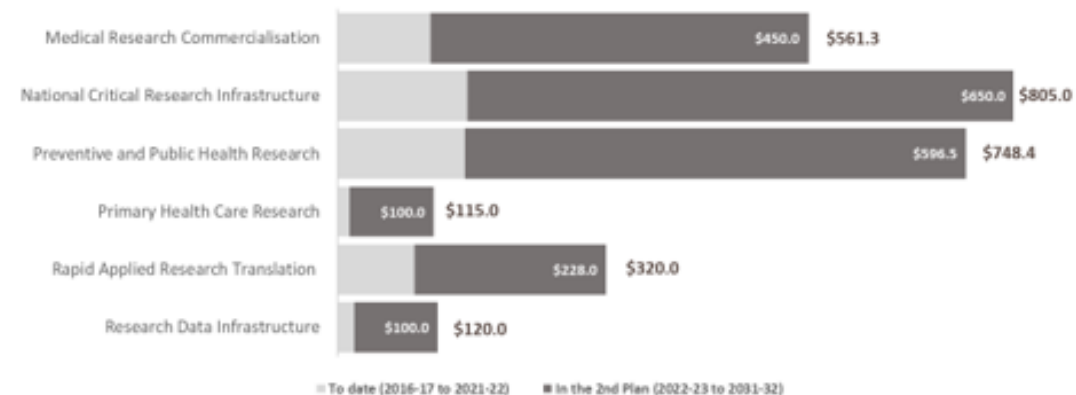
The \$2.125 billion allocated for the Translation theme under the 2<sup>nd</sup> Plan (2022-23 to 2031-32) builds on the funding already provided since the inception of the MRFF.

Overall, \$2.670 billion has been made available from 2016-17 to 2031-32.

There are 6 initiatives under this theme:

- Medical Research Commercialisation
- National Critical Research Infrastructure
- Preventive and Public Health Research
- Primary Health Care Research
- Rapid Applied Research Translation
- Research Data Infrastructure

Funding allocation under the MRFF 10-year Investment Plan, since 2016-17 (million)



# Update to 10-year Investment Plan (2<sup>nd</sup> Plan)

- The 2<sup>nd</sup> Plan includes snapshots of descriptions for each **MRFF funding initiative**:
  - funding allocated to date (2016-17 to 2021-22)
  - funding allocated from 2022-23 to 2031-32
  - total funding from inception of the MRFF through to 2031-32
  - objectives of each initiative
  - grant activities supported to date (as of 21 January 2022) from each initiative

## MRFF FUNDING INITIATIVE

### Medical Research Commercialisation

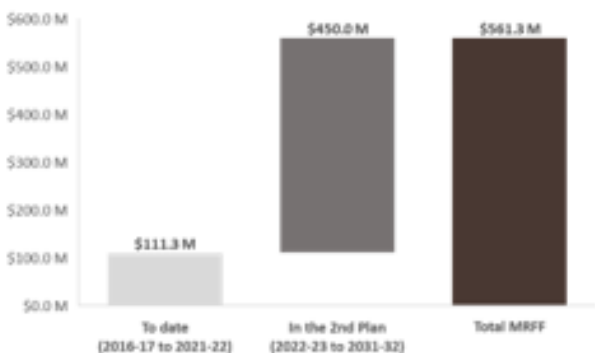
#### Objectives

The objective of this initiative is to support early-stage health and medical research and innovation in Australia through to proof-of-concept and beyond, providing opportunities for commercialisation.

This initiative will build on previous support for projects with commercial potential (particularly from small and medium-sized enterprises), with a focus on supporting research discoveries, including for novel or repurposed drugs (preclinical and clinical), devices and digital health technologies, as they progress from proof of concept through to clinical implementation.

Early investments through the 2<sup>nd</sup> Plan include an 'incubator' style funding model that will be used to support and nurture early-stage medical research and medical innovation projects with commercial potential.

#### Funding allocation



#### Grant activities supported to date

4 grant opportunities were completed  
7 grants valued at  
**\$146.3** million were awarded or announced\*

As at 21 January 2022  
\*Amount awarded or announced may include amounts payable after 30 June 2022 and may not match funding allocation at the time of publication. Total funding allocated to an initiative is not expected to reduce over the duration of the MRFF 10-year investment plan.

#### Key alignment with Priorities

- Translational Research  
Infrastructure




# 2<sup>nd</sup> Plan: Snapshots of Updates - Patients

Theme: Patients	Changes to initiative's focus
<p><b>Clinical Trials Activity:</b></p> <ul style="list-style-type: none"><li>• \$750m over 10 years</li><li>• Increase: \$62.6m pa to \$75m pa from 2022-23 to 2027-28</li><li>• Continuation: 4 years extension 2028-29 to 2031-32 (\$300m)</li></ul>	<ul style="list-style-type: none"><li>• Expanded focus through a new stream, <b>effective health interventions</b>, to enable funding of research projects focused on any disease or condition that meets the objective specified in each grant opportunity (focus in 1<sup>st</sup> 10-year Plan was on rare cancers, rare diseases, and unmet needs).</li></ul>
<p><b>Emerging Priorities and Consumer-Driven Research:</b></p> <ul style="list-style-type: none"><li>• \$613m over 10 years</li><li>• Increase: Nil</li><li>• Continuation: 4 years extension 2028-29 to 2031-32 (\$240m)</li></ul>	<ul style="list-style-type: none"><li>• Nil</li></ul>
<p><b>Global Health:</b></p> <ul style="list-style-type: none"><li>• \$30m over 10 years</li><li>• Increase: Nil</li><li>• Continuation: 4 years extension 2028-29 to 2031-32 (\$12m)</li></ul>	<ul style="list-style-type: none"><li>• Nil</li></ul>

## 2<sup>nd</sup> Plan: Snapshots of Updates – Research Missions

- Current Missions will continued to be implemented in alignment with Missions’ Roadmaps and Implementation Plans.
- **\$590.8 million** has been earmarked in the 2<sup>nd</sup> Plan for extending existing MRFF Missions that demonstrates outcomes, or creating new Missions to address emerging priorities.

		2022– 2023 \$m	2023– 2024 \$m	2024– 2025 \$m	2025– 2026 \$m	2026– 2027 \$m	2027– 2028 \$m	2028– 2029 \$m	2029– 2030 \$m	2030– 2031 \$m	2031– 2032 \$m	Total over 10 years
<div>Research Missions</div> <div></div>	Missions theme total	161.9	148.0	148.0	138.0	138.0	153.0	153.0	153.0	153.0	153.0	\$1,498.9 million
	Australian Brain Cancer Mission <sup>1</sup>	5.0	5.0	5.0	5.0	5.0	Extension subject to evaluation					\$25.0 million
	Cardiovascular Health Mission	24.0	25.0	20.0	20.0	20.0	20.0	20.0	Extension subject to evaluation			\$149.0 million
	Dementia, Ageing and Aged Care Mission	17.5	17.5	17.5	17.5	17.5	17.5	17.5	Extension subject to evaluation			\$122.5 million
	Genomics Health Futures Mission	54.9	50.0	50.0	50.0	50.0	41.2	Extension subject to evaluation			\$296.1 million	
	Indigenous Health Research Fund	12.5	12.5	12.5	12.5	12.5	12.5	12.5	Extension subject to evaluation			\$87.5 million
	Million Minds Mental Health Research Mission	25.0	15.0	20.0	10.0	10.0	5.0	Extension subject to evaluation			\$85.0 million	
	Stem Cell Therapies Mission	18.0	18.0	18.0	18.0	18.0	18.0	Extension subject to evaluation			\$108.0 million	
	Traumatic Brain Injury Mission	5.0	5.0	5.0	5.0	5.0	5.0	5.0	Extension subject to evaluation			\$35.0 million

1 The total allocation to the Mission since 2018-19 is \$136.66 million (including \$76.4 million in philanthropic contributions and \$10.26 million from other MRFF initiatives).

# 2<sup>nd</sup> Plan: Snapshots of Updates – Researchers

Theme: Researchers	Changes to initiative’s focus
<b>Clinician Researchers:</b> <ul style="list-style-type: none"><li>• 200m over 10 years</li><li>• Increase: Nil</li><li>• Continuation: 4 years extension 2028-29 to 2031-32 (\$80m)</li></ul>	<ul style="list-style-type: none"><li>• Nil</li></ul>
<b>Early to Mid-Career Researchers:</b> <ul style="list-style-type: none"><li>• \$384.2m over 10 years</li><li>• New Initiative</li></ul>	<ul style="list-style-type: none"><li>• Dedicated funding stream to support early to mid-career researchers (EMCRs)<ul style="list-style-type: none"><li>○ <b>\$84 million</b> for <b>early career researchers</b> to develop and test the feasibility of novel solutions to challenging health issues<ul style="list-style-type: none"><li>➤ <b>New incubator model</b> for early-stage small-scale research projects</li></ul></li><li>○ <b>\$206 million</b> for <b>mid-career researchers</b> to allow large interdisciplinary teams to devise and implement research to improve health care/health system effectiveness<ul style="list-style-type: none"><li>➤ <b>New accelerator model</b> for large-scale programs of work</li></ul></li><li>○ <b>\$95 million</b> for <b>accelerated research translation</b> to allow EMCRs to lead co-funded projects that accelerate translation of research outcomes<ul style="list-style-type: none"><li>➤ A <b>targeted call for research</b> model for research-industry collaboration and translation into practice.</li></ul></li></ul></li></ul>
<b>Frontier Health and Medical Research:</b> <ul style="list-style-type: none"><li>• \$700m over 10 years</li><li>• Increase: Nil</li><li>• Continuation: 4 years extension 2028-29 to 2031-32 (\$280m)</li></ul>	<ul style="list-style-type: none"><li>• Nil</li></ul>
<b>Researcher Exchange and Development within Industry:</b> <ul style="list-style-type: none"><li>• \$4m over 1 year</li><li>• Increase: Nil</li><li>• Continuation: No</li></ul>	<ul style="list-style-type: none"><li>• Nil</li></ul>

# 2<sup>nd</sup> Plan: Snapshots of Updates – Research Translation

Theme: Research Translation	Changes to initiative’s focus
<p><b>Medical Research Commercialisation:</b></p> <ul style="list-style-type: none"><li>• \$450m over 10 years</li><li>• Increase: \$35m pa to \$45m pa</li><li>• Continuation: 4 years extension 2028-29 to 2031-32 (\$180m)</li></ul>	<ul style="list-style-type: none"><li>• Building on supporting projects with <b>commercial potential</b> (particularly from small and medium-sized enterprises), with a focus on supporting <b>research discoveries</b>, including for novel or repurposed drugs (preclinical and clinical), devices and digital health technologies, as they progress <b>from proof of concept through to clinical implementation</b>.</li><li>• Includes <b>‘incubator’ style</b> funding model for early-stage medical research and medical innovation projects with commercial potential.</li></ul>
<p><b>National Critical Research Infrastructure:</b></p> <ul style="list-style-type: none"><li>• \$650m over 10 years</li><li>• Increase: Nil</li><li>• Continuation: 4 years extension (\$50m pa) 2028-29 to 2031-32 (\$200m)</li></ul>	<ul style="list-style-type: none"><li>• Focussed on:<ul style="list-style-type: none"><li>○ innovation enablers</li><li>○ digitisation of health care</li><li>○ co-investment partnerships</li><li>○ mRNA technology enablers</li></ul></li></ul>
<p><b>Preventive and Public Health Research:</b></p> <ul style="list-style-type: none"><li>• \$596.5m over 10 years.</li><li>• Increase: \$274.9m from 2022-23 to 2027-28 (year-on-year increases are variable)</li><li>• Continuation: 4 years extension 2028-29 to 2031-32 (\$203m).</li></ul>	<ul style="list-style-type: none"><li>• Building on earlier focus to support:<ul style="list-style-type: none"><li>○ Consumer Led Research, \$100 million over 10 years</li><li>○ Health Technology Assessment, \$100 million over 10 years</li><li>○ Maternal Health and Early Childhood, \$75 million over 10 years</li><li>○ Promoting Healthy Lifestyles, \$75 million over 10 years</li><li>○ Chronic Respiratory Conditions, \$65 million over 5 years</li></ul></li></ul> <p><i>NB: Funding for Targeted Translation Research Accelerator continues (\$125m over 10 years)</i></p>

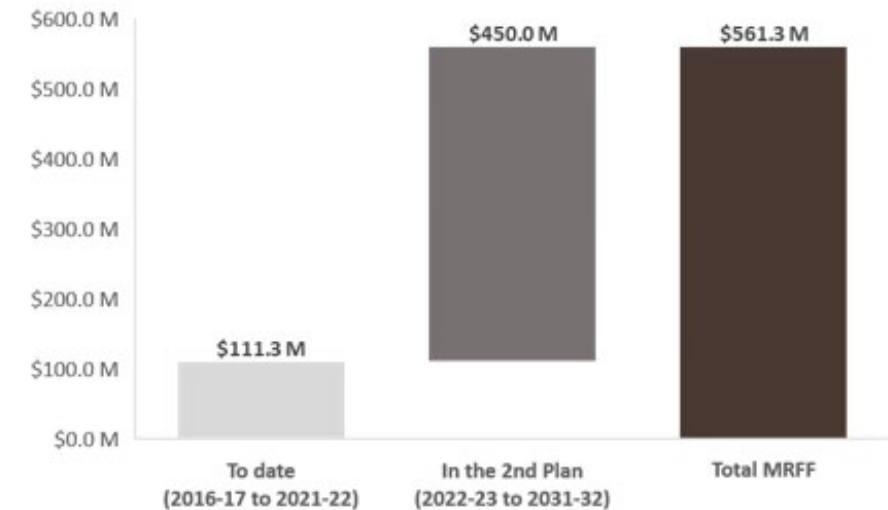
# 2<sup>nd</sup> Plan: Snapshots of Updates – Research Translation

Theme: Research Translation	Changes to initiative’s focus
<p><b>Primary Health Care Research:</b></p> <ul style="list-style-type: none"><li>• \$100m over 10 years</li><li>• Increase: \$5m pa to \$10m pa</li><li>• Continuation: 4 years extension 2028-29 to 2031-32 (\$40m)</li></ul>	<ul style="list-style-type: none"><li>• Expanded focus on supporting projects that <b>enhance equity of access to high quality primary health care through digital health innovation</b> and that help patients to monitor and control their own health care, support continuity of care and enable health care providers and patients to communicate in innovative and timely ways.</li><li>• Funding decisions will be driven by <b>meaningful engagement with end users</b>, such as patients, clinicians and health service providers, to address specific needs of Australian populations, including those in rural or remote locations.</li></ul>
<p><b>Rapid Applied Research Translation:</b></p> <ul style="list-style-type: none"><li>• \$228m over 10 years</li><li>• Increase: Nil</li><li>• Continuation: 4 years extension 2028-29 to 2031-32 (\$92m)</li></ul>	<ul style="list-style-type: none"><li>• Nil</li></ul>
<p><b>Research Data Infrastructure:</b></p> <ul style="list-style-type: none"><li>• \$100m over 10 years</li><li>• Increase: Nil</li><li>• Continuation: 4 years extension 2028-29 to 2031-32 (\$40m)</li></ul>	<ul style="list-style-type: none"><li>• Nil</li></ul>

# MRFF's Medical Research Commercialisation Initiative

- Activities:
  - BioMedTech Horizons
  - Biomedical Translation Bridge
  - Early Stage Translation and Commercialisation Support
  - BioMedTech Incubator
- Some activities are operated by MTPconnect.

Funding allocation



- **\$450m** over 10 years from 2022-23
- Building on supporting projects with **commercial potential** (particularly from SMEs), with a focus on supporting **research discoveries**, as they **progress from proof of concept through to clinical implementation**.
- Includes **'incubator' style funding model** for early-stage medical research and medical innovation projects with commercial potential.

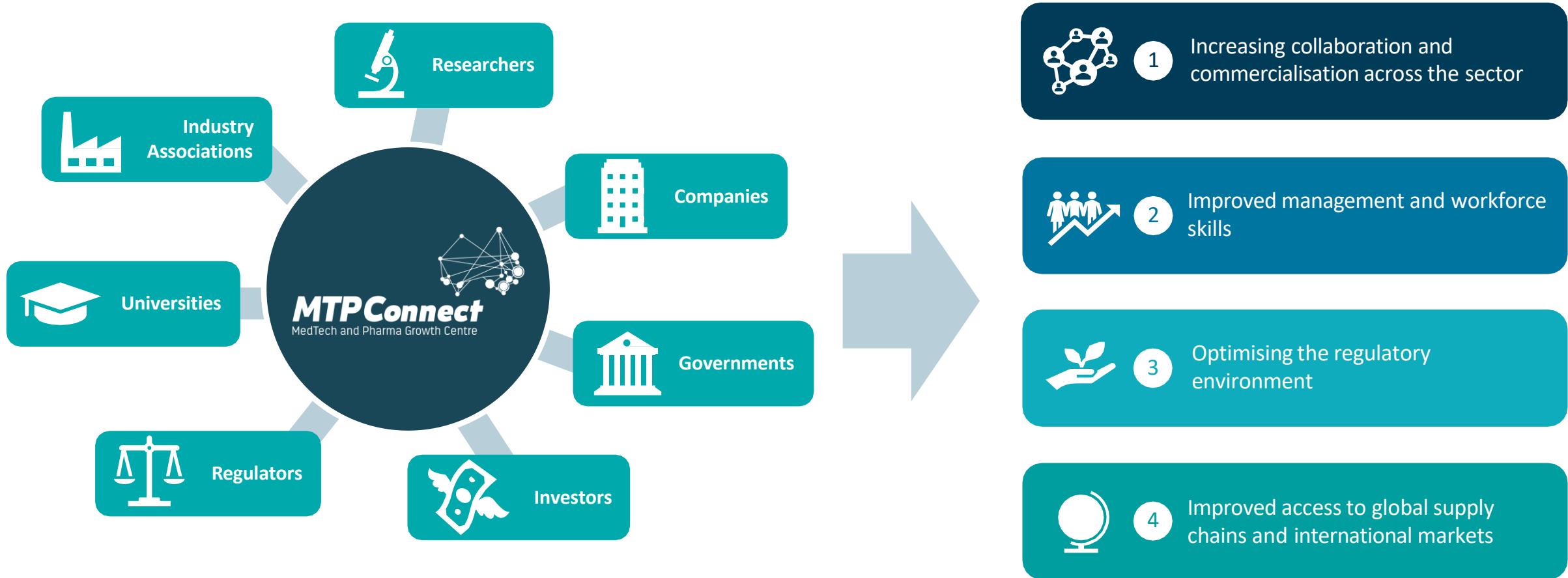
# MRFF Webinar

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**Ms Sue MacLeman**  
**Chair, MTPConnect**

# MTPConnect's goal is to accelerate the growth of Australia's MTP sector





# Australian MTP Sector

## ECONOMIC METRICS

GROSS VALUE ADDED  
(NOMINAL)  
BILLIONS OF AUD



JOBS SUPPORTED – INDUSTRY\*  
AND RESEARCH  
THOUSANDS OF EMPLOYEES



MTP MANUFACTURING  
EXPORTS  
BILLIONS OF AUD



## R&D METRICS

R&D INVESTMENT  
BILLIONS OF AUD



NUMBER OF  
COMPANIES  
PATENTING  
NUMBER OF COMPANIES



NO. OF  
PUBLICATIONS  
(WEB OF SCIENCE)  
THOUSANDS OF  
PUBLICATIONS

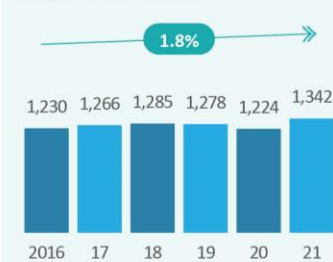


NO. CLINICAL  
TRIALS  
THOUSANDS OF  
TRIALS

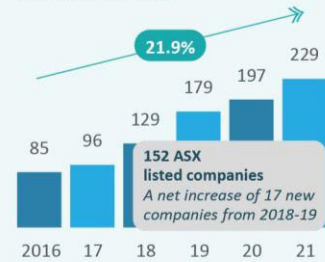


## COMMERCIAL METRICS

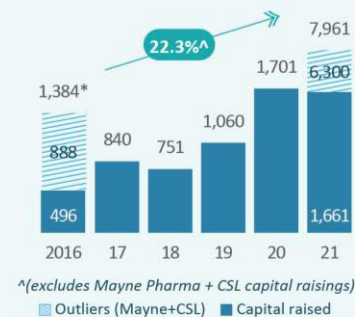
COMPANIES IN THE MTP  
INDUSTRY  
NO. OF COMPANIES



MARKET CAPITALISATION  
OF MTP COMPANIES  
BILLIONS OF AUD



CAPITAL RAISED  
MILLIONS OF AUD



# MTPConnect Programs Overview @\$182M

## Department of Industry, Science, Energy and Resources



Australian Government  
Department of Industry, Science,  
Energy and Resources

Industry  
Growth  
Centres

Growth Centre  
Project Fund

**\$15.6M**

40 Projects

## Department of Health - Medical Research Future Fund



**Biomedical**  
TRANSLATION BRIDGE  
PROGRAM

**\$22.3M**

21 Projects

**BMTH**

**BioMedTech Horizons**  
PROGRAM

**\$45M**

46 Projects

**RED**

DEVELOPING AUSTRALIA'S  
**MTP SECTOR**  
WORKFORCE

**\$32M**

13 Training partners  
31 Training programs

**TTRA**

TARGETED TRANSLATION  
RESEARCH ACCELERATOR  
DIABETES + CARDIOVASCULAR DISEASE

**\$47M**

7 Research projects  
2 Research centres



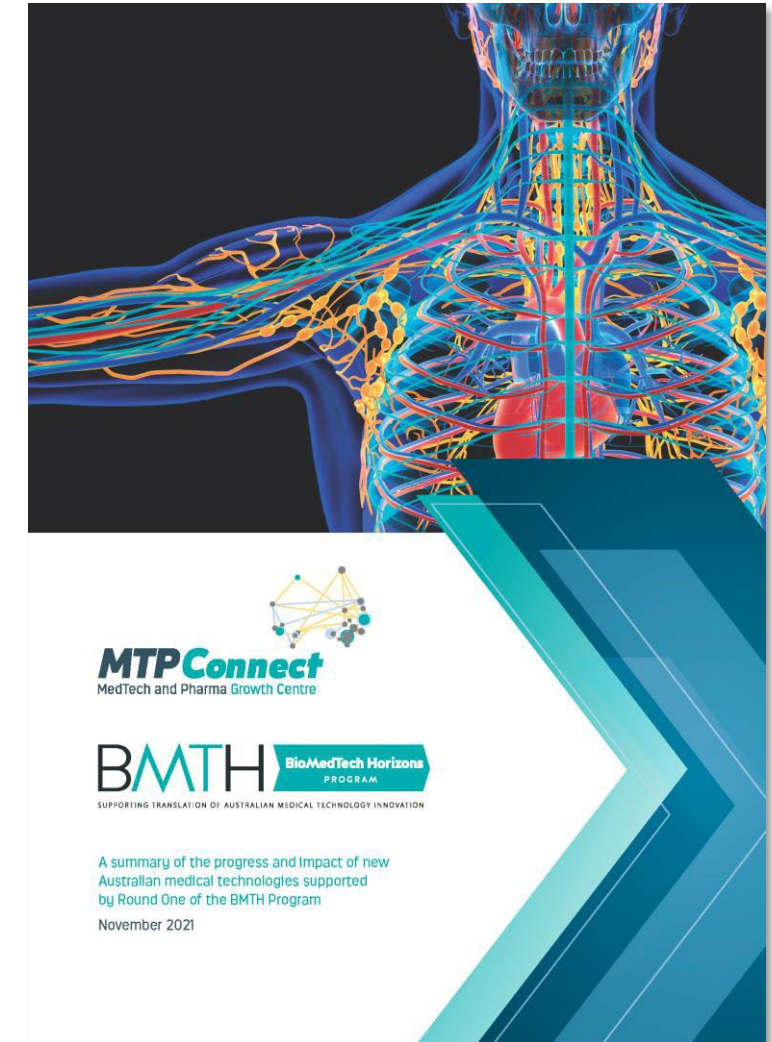
Clinical Translation  
& Commercialisation  
**Medtech**

**\$19.75M**

Round 1 – NOW OPEN!

# BioMedTech Horizons Program (BMTH)

- The BioMedTech Horizons program (BMTH) is a \$45 million MRFF initiative focused on supporting proof-of-concept to commercial development of biomedical and medical technology
- Four funding rounds - funded 46 projects
- Investments from the program are \$40M in funding has been distributed direct to projects and this has leveraged a further \$49M in cash and in kind.
- Projects have addressed many technical and clinical domains including precision medicine, 3D printing, cardiovascular health, orthopedics, emergency medicine, ophthalmology, implantable medical devices, digitally enabled devices, wearable devices, oncology, neonatal and pediatric devices and devices aimed at supporting blind people and restoring vision



# BioMedTech Horizons Program 1.0 - Impact

The first BMTH funding round concluded activities on 29 October 2021.

Of the 11 projects identified and funded as part of BMTH1, nine successfully completed their program of works resulting in clear advancement of their devices toward achieving their research and commercialisation objectives.



**New technologies**  
invented  
or  
progressed

27



**New patents,  
trademark  
applications  
and  
licences**

42



**New  
products  
launched**

3



**New jobs**  
created in **project  
companies**  
(years – direct  
and indirect)

58



Total sector  
**investment**  
into new  
companies (cash  
and in-kind)

\$23.5M



# BMTH Program Success: WearOptimo

In 2018, WearOptimo was awarded funding in Round One to help create a microwearable platform and again for Round Two in 2019 to develop a cardiac microwearable sensor.

- March 2021, secured a \$30 million partnership deal to manufacture its microwearable sensor at an advanced technology facility in Brisbane – for worldwide distribution. Partnership between the QLD Government, ANU and the Australian National Fabrication Facility
- March 2022, announced a multi-million-dollar investment agreement with Australian-owned Aspen Medical, cementing a strategic partnership to accelerate the development of its microwearable sensor that detects and alerts an individual to dehydration risk – while refining and testing it across industries like the military, mining, and resource sectors.



# Biomedical Translation Bridge Program (BTB)

The Biomedical Translation Bridge program is a \$22.3 million MRFF initiative that provides up to \$1 million in matched funding to nurture the translation of new therapies, technologies and medical devices through to the proof of concept stage.

Delivered through mentoring and commercialisation advice by BTB partners and partner programs, the BTB program aims to:

- De-risk and develop ventures so that they can attract further funding opportunities
- Nurture and mentor the next generation of health and medical research innovators in Australia
- Develop ventures to become attractive to Biomedical Translation Fund (BTF)
- Assist in the development of ventures that aim to ultimately result in preventative interventions, cures and
- Treatments for diseases that address health problems of national significance.

## BTB Program – Funding:

- **Three funding rounds**
- **R3 funding in 2020 was for COVID-19 research projects that had to be completed within 12-months**
- **20 projects currently funded by the BTB program**



# BTB Program Success: The University of Melbourne

The patient isolation hood is an Australian developed technology protecting HCWs from COVID-19 and reducing viral levels in the immediate surroundings. It provides for better patient respiratory treatment, reducing the need for invasive ventilation

- The University of Melbourne's patient isolation hood – now named **“McMonty” by Medihood** – has seen clinical trials conducted in Intensive Care Units (ICUs) at Western Health's Footscray and Sunshine hospitals
- The hoods have been successfully deployed in rural areas of Australia, particularly those without specialised facilities and negative pressure rooms. They have also been deployed internationally in Papua New Guinea and the Republic of Nauru
- A collaboration between the University of Melbourne, Western Health and local manufacturer Evan Evans saw the product in market within 12-months and, to date, 1,000 devices and additional consumables have been sold





# Clinical Translation & Commercialisation – Medtech (CTCM)

The Clinical Translation and Commercialisation - Medtech (CTCM) program is offered under the 2020 Early Stage Translation and Commercialisation Support Grant of the Medical Research Future Fund's Medical Research Commercialisation Initiative.

- The \$19.75 million program will identify and nurture high-quality medical device projects that have commercial potential and support their translation through early clinical trials
- The program opened in December 2021, is focused on SMEs and aims to boost commercialisation of home-grown medical products



In partnership with:



Medical Technology  
ASSOCIATION OF AUSTRALIA



MEDICAL DEVICE  
PARTNERING  
PROGRAM



Two funding rounds

**Funding Round 1**

(Opened FY 2022)

**Funding Round 2**

(Opens FY 2023)

Successful projects will receive

**Between \$250,000  
& \$1.5 million  
per project**

(50% cash co-contribution)



**Funding period per project:  
24 months**



## Developing future workforce capabilities in the MTP sector



### Pillar One

#### Expansion of proven programs



##### Partners:

- ANDHealth
- GSK Australia
- IMNIS
- MDPP
- MedTech Actuator

1

### Pillar Two

#### Comprehensive skills gap analysis and support for new programs



##### Partners:

- ARCS Australia
- Biointellect Consortium
- Cicada Innovations
- SeerPharma
- The George Institute for Global Health
- VCCC Alliance

2

### Pillar Three

#### Industry placements, internships and fellowships



##### Partners:

- APR.Intern
- MTPConnect REDI Fellowship Program
- The Bridge and BridgeTech programs

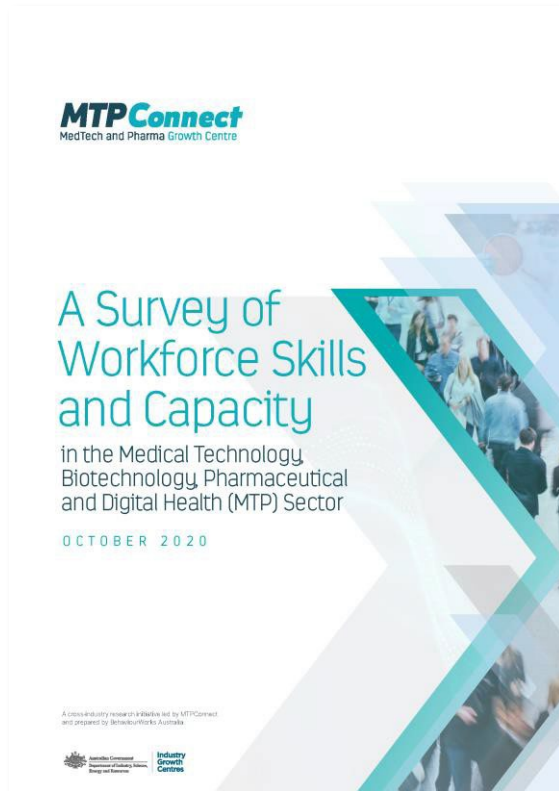
3

## Researcher Exchange and Development within Industry initiative

Medical Research Future Fund | \$32M over 4 years

# REDI Skills Gap Analysis

Skills gap analysis has provided us with a skills development blueprint  
for an industry-ready, fit for purpose MTP workforce



# REDI Success: The REDI Fellowship Program

- The REDI Fellowship program provides companies in the medical technology, biotechnology and pharmaceuticals (MTP) sector with up to \$250,000 per annum to bring researchers, clinicians and MTP professionals in-house for up to 12-months to work on priority medical research projects
- Intended to accelerate relationships, drive projects towards commercial outcomes and provide high-level commercial and entrepreneurial experience for the Fellow
- To date, 14 fellowships have been awarded, working with major Australian and international companies including Cochlear, Telix Pharmaceuticals, Stryker, Pharmaxis, Paige and Synopsis
- Successful applicants from the November 2021 round are now being finalised, after which all funds in the current budget will be committed and the program will be paused



# TTRA Diabetes & Cardiovascular Disease Research Accelerator

The \$47M MRFF-funded TTRA program:

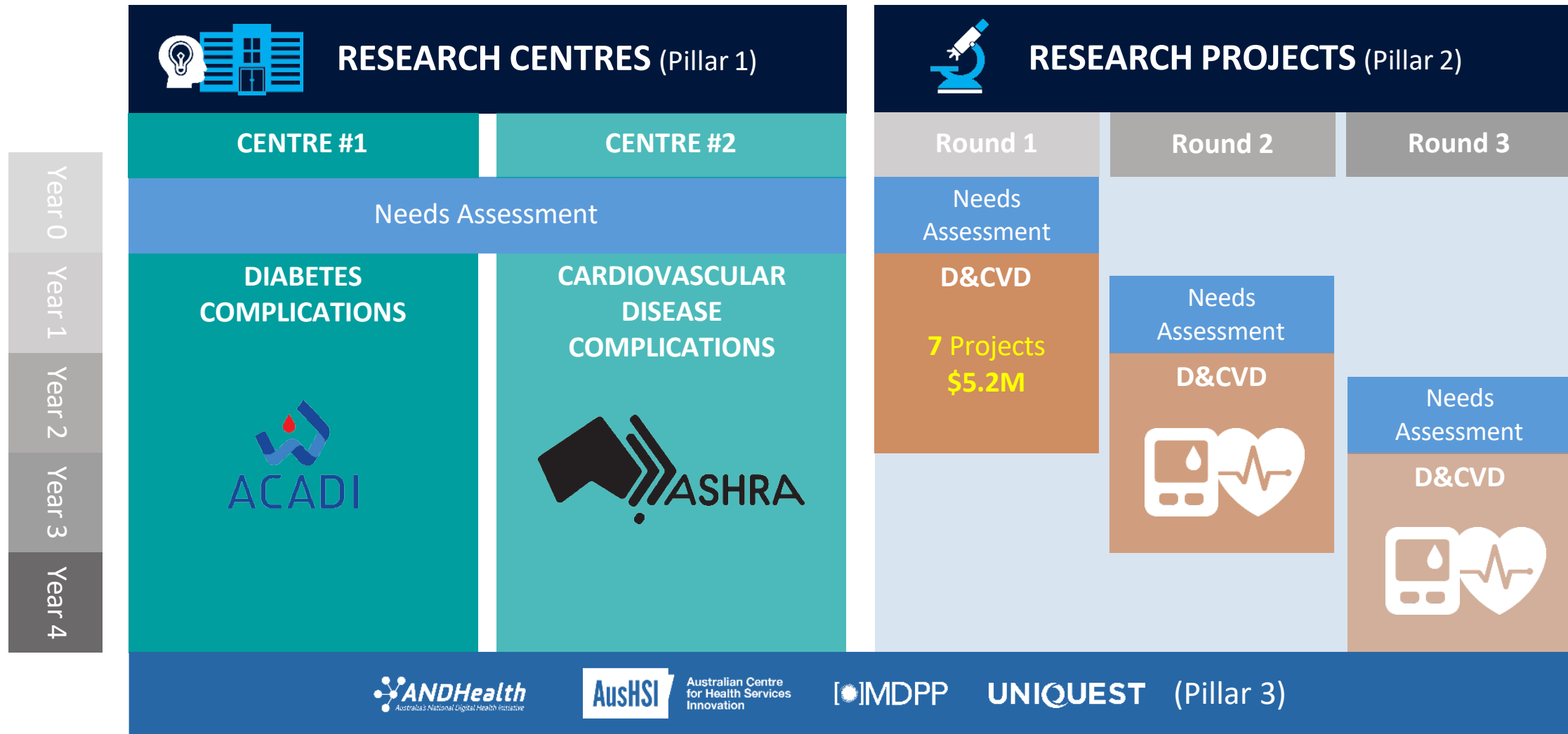
- has established two **Research Centres** for diabetes and cardiovascular disease
- is providing direct **Research Project** funding support across Australia,

to enable research translation, commercialisation and implementation through to clinical impact.





# MRFF \$47M TTRA Program



# TTRA Success Story: Research Centres

*“a new approach to boosting the translation and commercialisation of Australian research to do more to help people with cardiovascular disease and diabetes”*

- In January 2022, two new national Research Centres, the Australian Centre for Accelerating Diabetes Innovations (ACADI) and the Australian Stroke & Heart Research Accelerator (ASHRA) were established under the TTRA initiative
- Each Research Centre has been awarded \$10 million over four years and attracted substantial co-contributions from academic and industry partners totalling \$34.3 million
- Collectively the two new Research Centres will initially progress **31 research projects** addressing diabetic kidney disease, peripheral neuropathy and diabetic foot syndrome, and short-term complications of hypoglycaemia, hyperglycaemic hyperosmolar syndrome (HHS) and ketoacidosis, coronary artery disease, cardiomyopathy and heart failure, and transient ischaemic attack (TIA) / stroke





CONTACT US FOR FURTHER  
**INFORMATION**



**PHONE** +61 3 9070 8298

**EMAIL** [info@mtpconnect.org.au](mailto:info@mtpconnect.org.au)

**HEAD OFFICE** Level 1, Suite 1.01  
250 Bay Street  
Brighton VIC 3186  
Australia

\*See our website for all locations

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**MTPCONNECT.ORG.AU**

# MRFF's Early Stage Translation and Commercialisation Support

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## The 2020 Early Stage Translation and Commercialisation Support Grant Opportunity:

- Competitive grant round.
- **\$79 million over three years from 2020-21** to support early stage Australian medical research and medical innovation projects with commercial potential.
- Successful projects will be required to partner with Australian small to medium-sized enterprises (SMEs), including to provide them with specialist support and expertise with the aim to de-risk project outputs and progress towards commercialisation.
- **Four grants of \$19.75 million each** awarded to:
  - MRCF Pty Ltd (Brandon BioCatalyst) to support 20-25 preclinical medical research or medical innovation projects with commercial potential
  - MRCF Pty Ltd (Brandon BioCatalyst) to support at least 11 early clinical development of novel drugs, or novel uses for existing drugs, with commercial potential
  - MTPConnect to support early clinical development of medical devices with commercial potential
  - ANDHealth Limited to support up to 25 SMEs in early stage development of digital health technologies with commercial potential.



# MRFF's Early Stage Translation and Commercialisation Support

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- **ANDHealth Limited** has selected and announced five SMEs as the first cohorts under its MRFF-funded program to share in \$3.75 million of project funding:
  - **Cardihab** – Digital Cardiac Rehabilitation providing care to patients at a time and place that works for them.
  - **Gheorg**– The friendly robot helping children with anxiety; an AI enhanced first responder for children with mental health issues and expert guide for parents.
  - **Perx Health** – A motivation and engagement platform changing the way people and companies create habits for managing medical conditions.
  - **Sound Scouts**– Free online hearing test app for kids. Fun, clinically proven technology enabling hearing to be checked efficiently and reliably.
  - **VaxApp**– An immunisation management platform that enables healthcare providers to deliver and monitor vaccination and rapid antigen testing programs.
- **MCRF Pty Ltd (Brandon BioCatalyst)** has completed its first round of expression of interests (EOIs).
- **MTPConnect**'s first round of EOIs has opened.

# MRFF's BioMedTech Incubator

- Funds a suitable organisation that can identify and select a number of Australian small and medium enterprises (SMEs) undertaking early-stage medical research and innovation projects with commercial potential.
- The successful organisation will partner with the SMEs to progress and nurture their medical research and innovation projects by:
  - supporting novel or repurposed drugs (pre-clinical and clinical), medical devices and digital health technologies
  - providing access to capital (project funding of up to \$5 million over 5 years) and industry knowledge to support transition of discoveries through to commercialisation
  - nurture and mentor the next generation of health and medical research innovators.

- **\$50 million** available over **two years from 2022-23**
- Applications close **25 August 2022 at 5:00pm**
- GrantConnect: GO ID GO5322



## Grant Opportunity Guidelines



## Medical Research Future Fund – Medical Research Commercialisation Initiative

### 2021 BioMedTech Incubator Grant Opportunity Guidelines

Opening date:	8 March 2022
Closing date and time:	5.00pm AEDT on 25 August 2022
Commonwealth policy entity:	Australian Government Department of Health
Administering entity	Department of Industry, Science, Energy and Resources
Enquiries:	If you have any questions, contact us on 13 28 46 or <a href="mailto:BMTI@industry.gov.au">BMTI@industry.gov.au</a> .
Date guidelines released:	20 December 2021
Type of grant opportunity:	Open competitive

# Biomedical Translation Fund (BTF)

- The BTF **complements the MRFF in supporting the translation and commercialisation** of medical research and medical innovation, in particular the **‘second valley of death’ along the research pipeline**, by
  - investing in their promising biomedical discoveries (therapeutic, medical or pharmaceutical) and assist in commercialisation
  - encouraging development of these companies by addressing capital and management constraints.
- Three licensed private fund managers:
  - Brandon Capital Partners
  - OneVentures Management
  - BioScience Managers.
- Program delivery by AusIndustry: <https://business.gov.au/Grants-and-Programs/Biomedical-Translation-Fund>

**\$501.25 million is available**

\$250 million from Commonwealth funding  
\$251.25 million from private sector capital

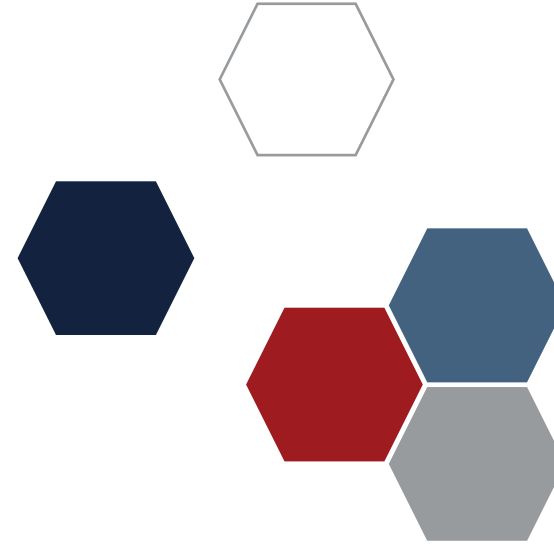
**\$287.8 million committed  
in 25 investee companies**

As of 4 March 2022

# BTF Success Stories

- **\$6.5 million to Avita Medical Ltd**
  - commercialisation of the **RECELL®** system that produces a suspension of Spray-On Skin™ Cells using a small sample of the patient's own skin for the treatment of acute burns, prepared and applied at the point of care in as little as 30 minutes.
  - RECELL® sales were projected at US\$28-30 million for 2020-21.
- **\$19 million to BiVACOR Pty Ltd**
  - development of a rotary **total artificial heart device**, designed to take over complete function in the case of heart failure.
  - designed to be a long-term device to completely replace a natural heart.
- **\$27.4 million to Global Kinetics Corporation**
  - accelerating the development and commercialisation of the **PKG® System**, which includes a wrist-worn device that records Parkinson's symptoms and provides clinical reports to assist with planning routine care for Parkinson's patients.





# MRFF Program Updates and News

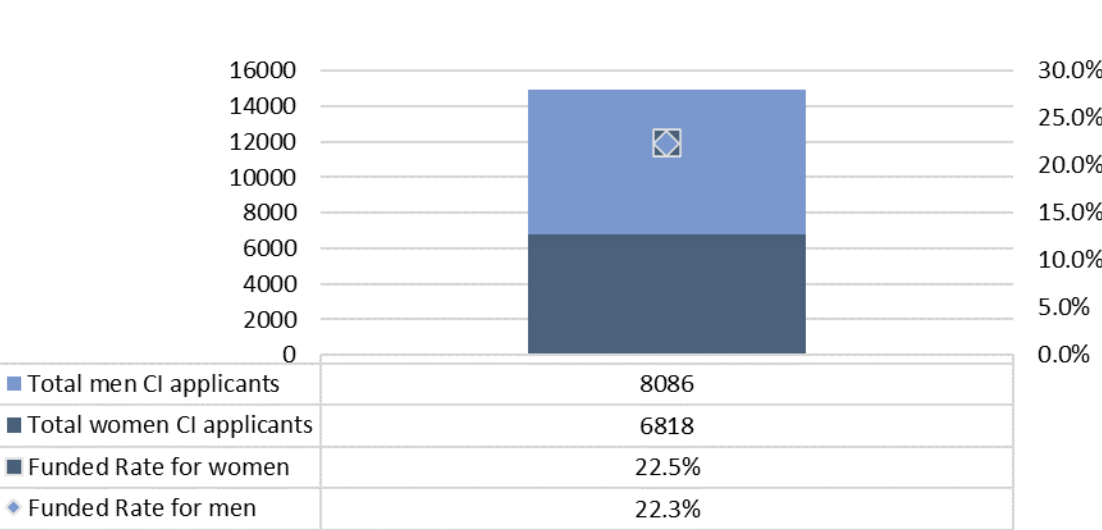
# MRFF Gender Data Report

- Report now available on the MRFF webpage at:  
<https://www.health.gov.au/resources/publications/medical-research-future-fund-grant-opportunity-gender-data-report-22-march-2022>
- Analysis based on approximately 76% of MRFF completed competitive grant opportunities as of 30 June 2021 consisting of:
  - 60 competitive grant opportunities
    - 56 grant opportunities administered by NHMRC
    - 4 grant opportunities administered by BGH (Business Grants Hub)
  - Data from almost 15,000 Chief Investigators (CIs) or equivalent, who self-identified or were identified by the department as a woman or man.

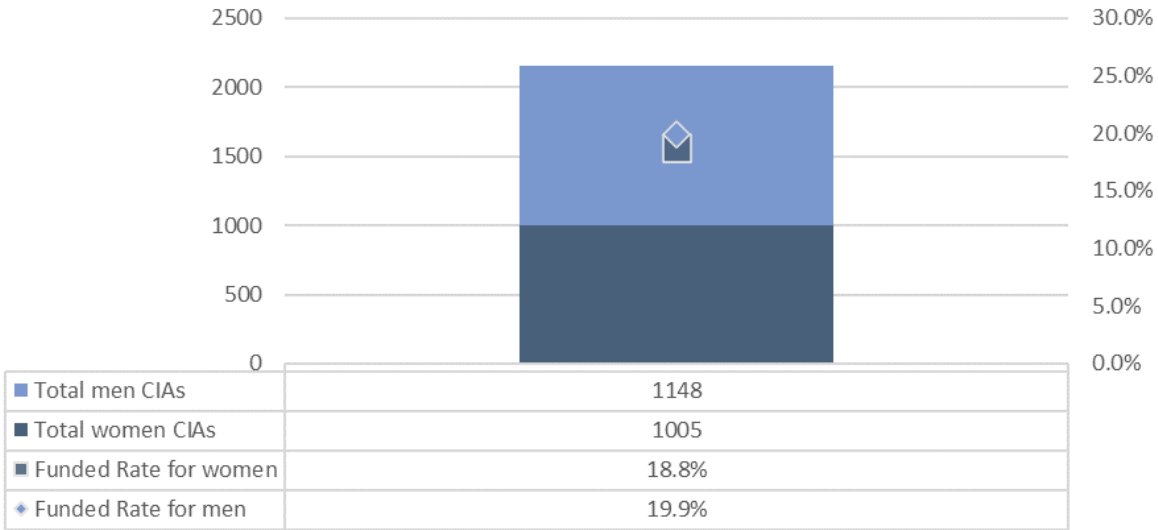


# MRFF Gender Data Report

Number of CIs, or equivalent and funded rates, by gender



Number of CIAs and funded rates, by gender

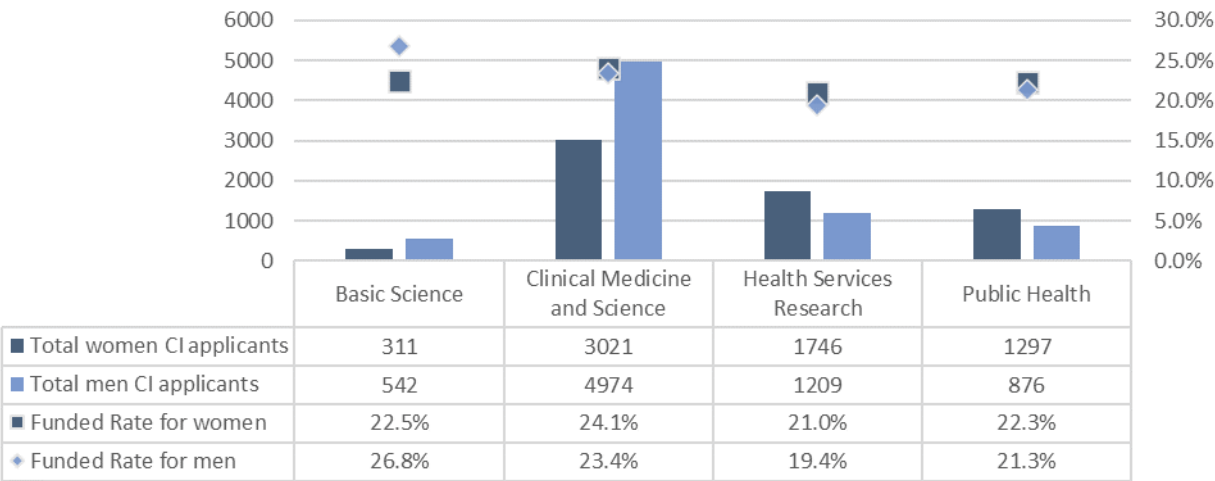


- Overall, more men applied for MRFF grants as a Chief Investigator (CI) or as the Chief Investigator 'A' (CIA) compared with women.
- Funded rates for women and men CIs were relatively comparable across the range of factors assessed in this report.

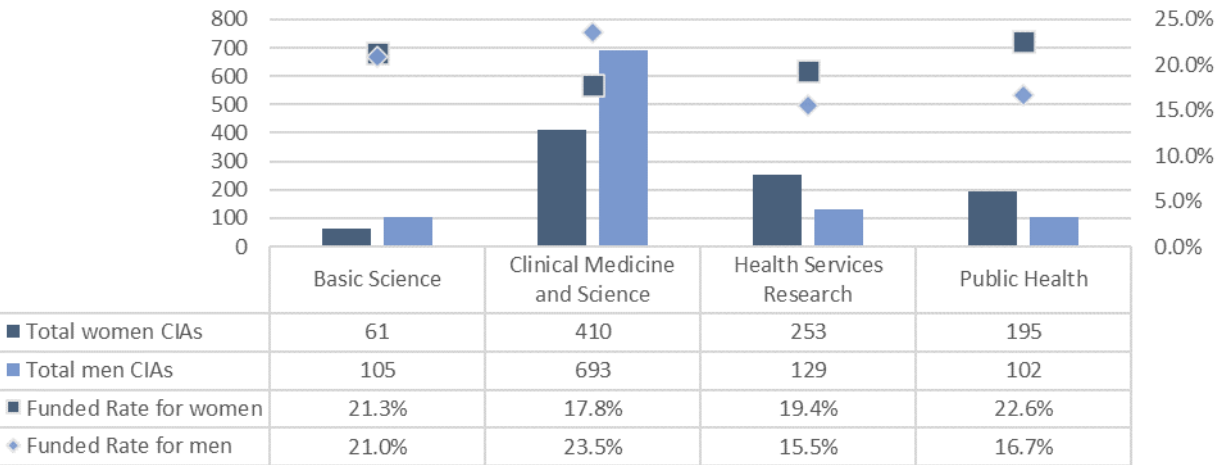
# MRFF Gender Data Report

- More women applied for grants in the Health Services Research and Public Health Broad Research Areas compared with men.
- **Women CIs had better or equal funded rates in applications than men across the broad research areas, other than in Basic Science.**
- For CIA data only:
  - **Women had greater funded rates than men for Health Services Research and Public Health applications.**
  - Men had greater funded rates than women for Clinical Medicine and Science applications.
  - **Funded rates for Basic Science applications were approximately equal** for men and women CIAs.

Number of CIs, or equivalent and funded rates by Broad Research Area (NHMRC-administer only), by gender



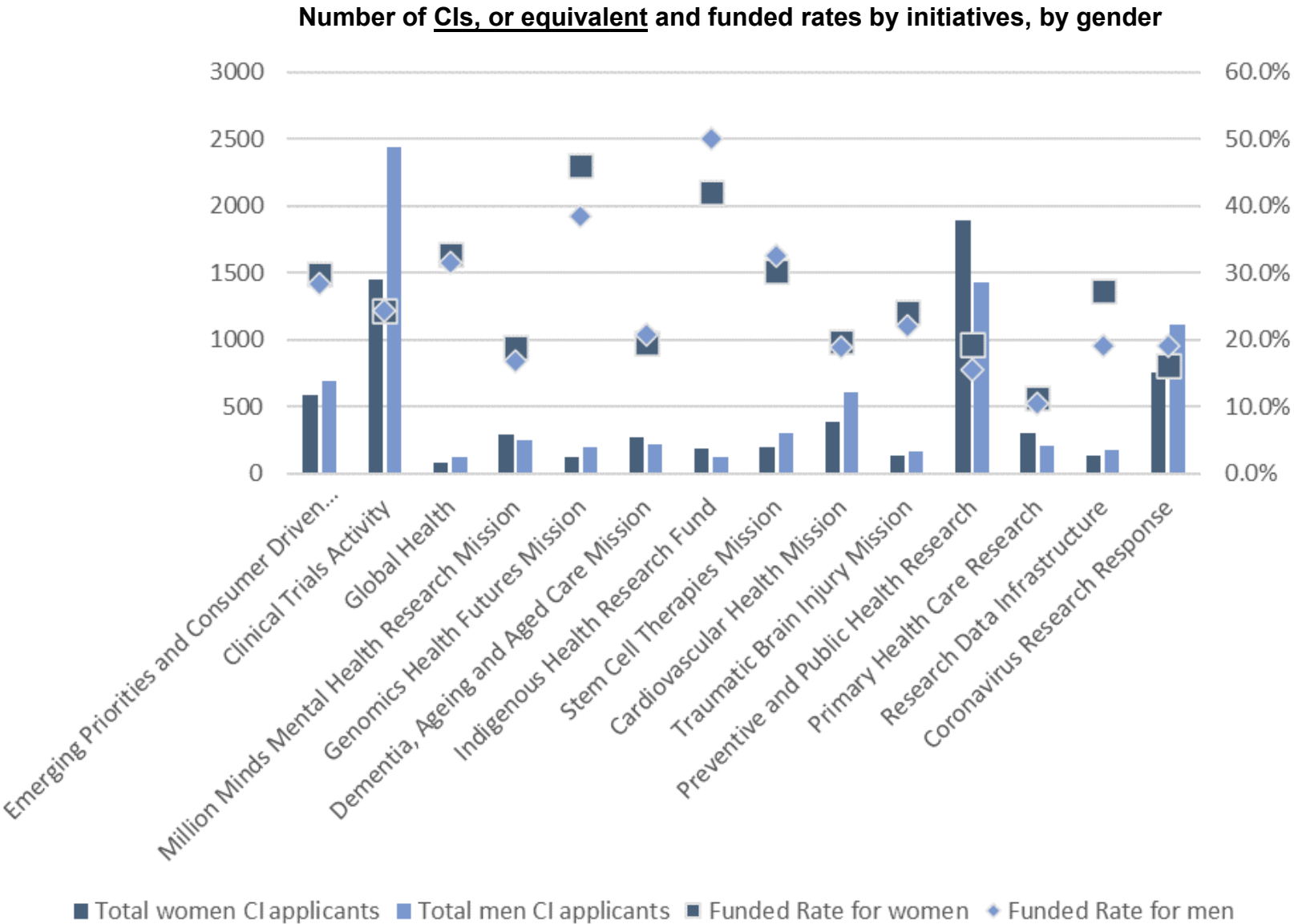
Number of CIAs and funded rates by Broad Research Area (NHMRC-administer only), by gender





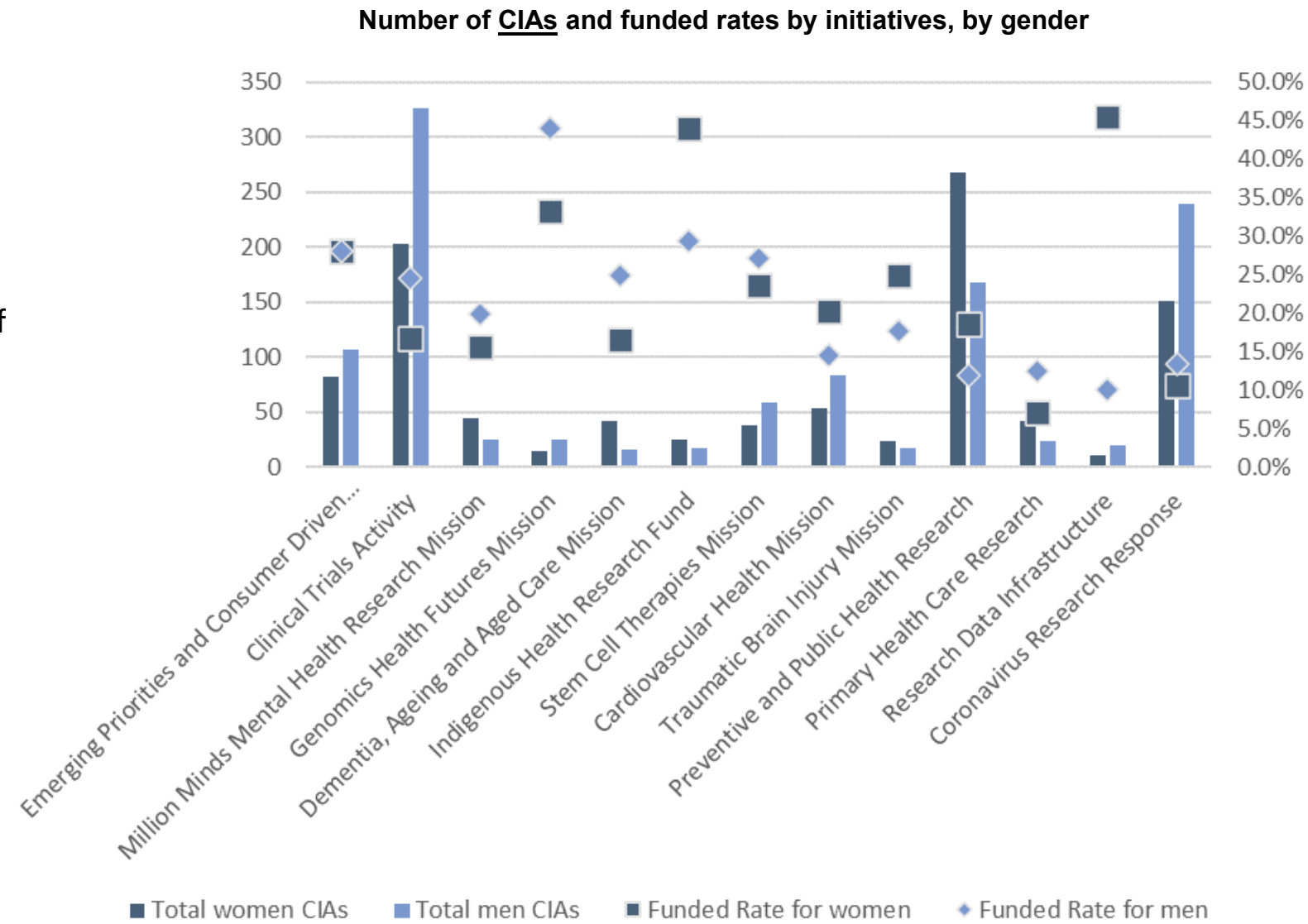
# MRFF Gender Data Report

- The funded rates for women CIs tended to be equal to or higher than for men CIs across many MRFF initiatives.



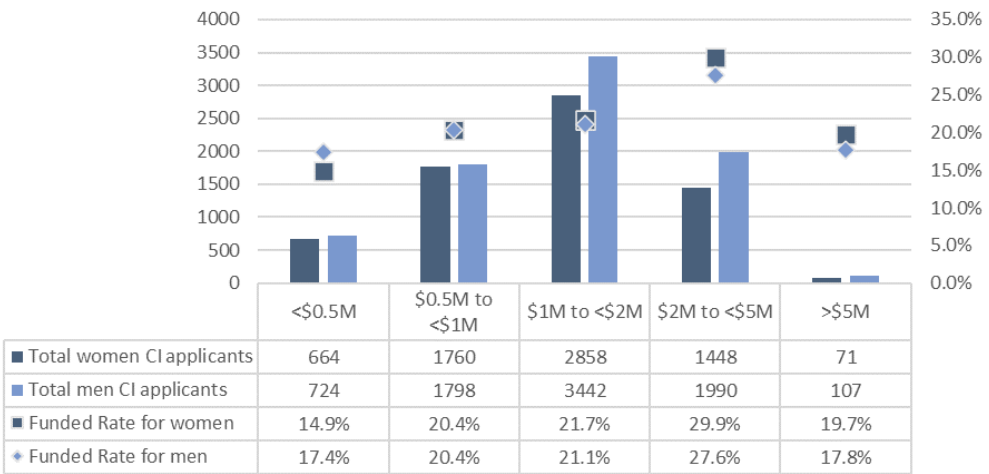
# MRFF Gender Data Report

- The funded rates for women CIAs are more variable, with higher funded rates for women across half of the MRFF initiatives.



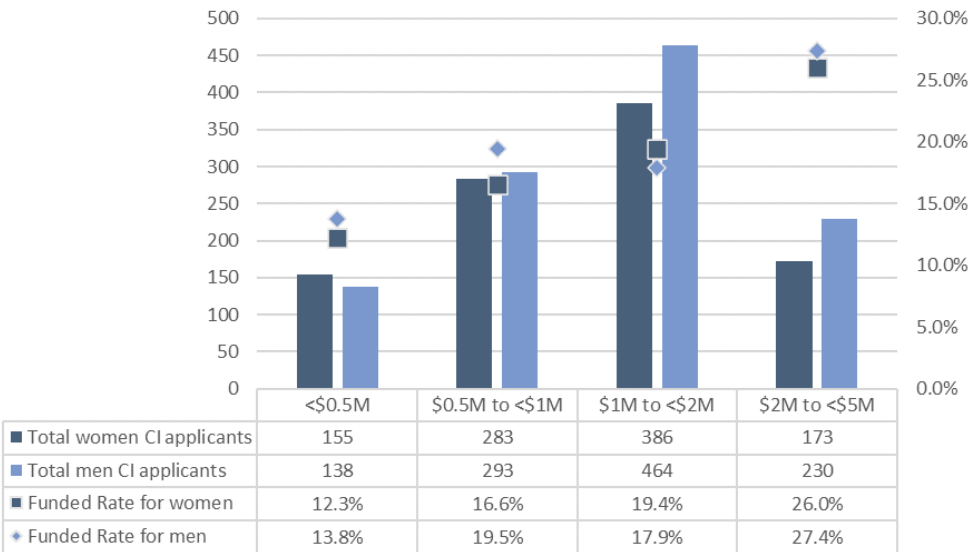
# MRFF Gender Data Report

Number of CIs, or equivalent and funded rates by grant size, by gender



- There are variable outcomes by grant sizes (funding requests).
- Some general trends observed:
  - Funded rates for women CIs are slightly higher than for men for grant sizes \$2 million and above, but are about equal or less than for men for smaller grant sizes.
  - Funded rates for women CIAs are lower than for men for all grant sizes, except for grants between \$1 million to less than \$2 million.

Number of CIAs and funded rates by grant size, by gender




# Sharing stories of the brilliant women leading MRFF projects

Medical Research  
Future Fund

## The Brilliant Women Leading MRFF Projects

To celebrate our first gender data report on MRFF funding, we present some of the brilliant female Chief Investigators leading MRFF projects.



**Professor Christobel Saunders AO, breast cancer surgeon**

Christobel hopes to produce new evidence to inform Australian Government policy by proving patients with complex breast cancers need MRI scans.

For this group of patients, standard mammography and ultrasound scans often don't show enough information about their cancer Christobel says. Surgeons need a more sensitive MRI scan to work out what to do.

**Clever trial design**

Previous international trials failed to conclude if MRI scans benefit breast cancer patients. But Christobel says only about 15-20% of patients need an MRI scan. She believes the improved outcome for this group of patients was lost in the large-scale randomisation of the previous trials.

Christobel needed to design a trial that could demonstrate this impact. 'Our trial only follows the patients whose treating team thinks they need an MRI. We want to find out how the MRI changes outcomes for that group.'

The 'Evaluation of clinical pathways and patient outcomes for breast MRI in preoperative assessment and staging of breast cancer' trial is funded by \$2 million from the MRFF.

- Read about the brilliant female Chief Investigators leading MRFF projects at: <https://www.health.gov.au/resources/publications/the-brilliant-women-leading-mrff-projects>

# \$301 million in 13 Grant Opportunities announced in December 2021

Initiative	Grant Opportunity	Value
Early to Mid-Career Researcher	2021 Early to Mid-Career Researchers	\$42.8m
Clinical Trials Activity	2021 Clinical Trials Activity	\$71.6m
Preventive and Public Health Research	2021 Consumer Led Research Program	\$10m
	2021 Maternal Health and Healthy Lifestyles	\$15m
	2021 Chronic Respiratory Conditions	\$20m
	2021 Optimising the Clinical Use of Immunoglobulins	\$14m
Primary Health Care Research	2021 Primary Health Care Digital Innovations	\$5m
Indigenous Health Research Fund	2021 Indigenous Health Research	\$24.4m
Emerging Priorities and Consumer Driven Research	2021 Chronic Neurological Conditions	\$15m
	2022 MRFF Joint Transnational Call	\$1m
Australian Brain Cancer Mission	2021 Australian Brain Cancer Research	\$7.5m (includes \$1.5m from Mission partners)
Medical Research Commercialisation	2021 BioMedTech Incubator	\$50m
National Critical Research Infrastructure	2021 mRNA Clinical Trials Enabling Infrastructure	\$25m

# \$268.1 million in 17 New Grant Opportunities in 2022-23 Budget

(guidelines available now)

New Grant Opportunities	Value
<b>International Clinical Trials Collaborations</b> to increase Australian leadership of, and participation in, high quality international collaborative clinical trials across <b>six grant opportunities</b> over the next three years	\$37.8m
<b>2022 Pancreatic Cancer Research</b> to support more effective approaches for managing the pain and symptoms of individuals with pancreatic cancer and to provide access to clinical trials that offer new treatments	\$12m
<b>2022 National Critical Research Infrastructure</b> to enhance Australia's research infrastructure to promote new research approaches that will address health challenges	\$73m
<b>2022 Multiple Sclerosis Research</b> to provide access to clinical trials and accelerate availability of effective therapeutics for the treatment of Epstein Barr Virus infection, and improve understanding of how immune responses to viruses vary across individuals to inform disease prediction and treatment pathways to ultimately reduce the prevalence and severity of multiple sclerosis and post-viral diseases	\$18m
<b>2022 Quality, Safety and Effectiveness of Medicine Use and Medicine Intervention by Pharmacists</b> to generate evidence that supports the safe and effective use of prescription medicines, improves the quality of care provided to patients with cancer, reduces hospital readmissions due to medication related complications, and supports the safe and effective use of medicines in residential aged care facilities	\$15m
<b>2022 Effective Treatments and Therapies</b> to support the development and implementation of effective exercise programs that reduce the risk of disease in Australian adults aged over 45 years, increase physical activity amongst priority populations, and ameliorate symptoms of progressive neurological deterioration and mental impairment in children and adolescents	\$13m
<b>2022 Nurses, Midwives and Allied Health</b> to support nurses, midwives and allied health professionals to improve the quality of health care, practice and systems by undertaking applied research in health care	\$20.3m
<b>2022 Stem Cell Therapies</b> to generate novel approaches to stem cell-based therapies that have the potential to transform clinical care and generate new treatments using human tissues made from stem-cells for pre-clinical development	\$10m
<b>2022 Dementia Ageing and Aged Care</b> to support research that improves the wellbeing of Australians living with dementia and their carers and enables earlier and more effective diagnosis of dementia	\$24m
<b>2022 Cardiovascular Health</b> to generate knowledge to improve the detection, prevention and treatments for cardiovascular disease and stroke	\$24m
<b>2022 Brain Cancer Research Infrastructure</b> to generate knowledge that enables the development of new approaches, treatments and therapies that accelerate progress in improving the diagnosis and care for patients with brain cancer.	\$6m
<b>2022 Mitochondrial Donation Pilot Program</b> (*announced 10 April 2022)	\$15m

# MRFF Accelerator Grants

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- Large scale (up to \$5 million) and long-term (up to 5 years) funding to support interdisciplinary research to drive implementation of substantial improvements to health care and/or health system effectiveness.
- These grants:
  - focus on a specific ‘big question’
  - integrate collaborative work programs under strong governance structure
  - facilitate high quality interdisciplinary research that addresses needs of communities and health consumers
  - aim to embed sustainable, systemic improvements to policy and/or practice within health care and/of health system.
- Grant applications are assessed using selection criteria defined in the grant opportunity guidelines by independent Grant Assessment Committees set up by the grant administration hubs (NHMRC or Business Grants Hub).
- More information: <https://www.health.gov.au/resources/publications/mrff-accelerator-grants>

## Keep connected...



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<https://www.health.gov.au/initiatives-and-programs/medical-research-future-fund/mrff-news>



### **Nominate for an MRFF Grant Assessment Committee (GAC)**

<https://www.nhmrc.gov.au/2021-22-medical-research-future-fund-mrff-grant-opportunities>



### **Register for MRFF grants opportunities**

<https://www.grants.gov.au/>



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Thank you for your time

Questions?