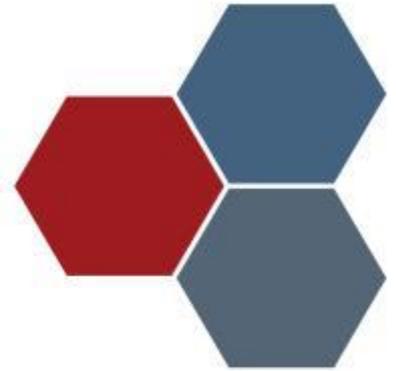
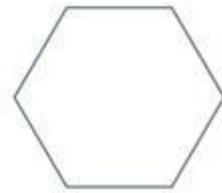




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GENOMICS HEALTH FUTURES MISSION





MRFF disbursements

- Over \$2 billion available over first six years (>2016-17)
- **2016-17-** \$65.9m = 8 programs
- **2017-18-** \$1,651.7m = 11 new programs + 4 extensions
 - long term investments – between four and five years
 - foundational programs – clinical trials, fellowships
 - cluster of ‘valley one’ support program to prime pipeline
 - brave missions of various sizes
 - preventive and health services improvement focus
 - introduction of commissioned research
- **THEMES:** Patients, Researchers, Missions and Translation



Industry Growth Plan

Relevance to today's **SUMMIT**

- **Genomics Health Futures Mission** (\$500m/10years)
 - **Frontier Research** (\$240m/5 years) transformative health focussed research, two stages 'THE PITCH' EOI \$1m x1year = 20 competing for 'THE INVESTMENT' \$10-\$20m pa >5 years
 - **BioMedTech Horizons** (\$40m/4years, extension) - bridge to commercialisation
 - **Biomedical Translation Bridge** (\$22.3m/4years) innovative early ideas
 - **Targeted Translation Research Accelerator** (\$125m/9years >2019-20)
 - **Industry Researcher Exchange** (\$32m/4years) - joint appointment fellowships
 - **Clinical Trials Activity** (\$206m/5years, extension)
 - **International Clinical Trial Collaboration** (\$42m/5years)
-
- **Australian Medical Research Advisory Board** (\$20m/4years)
 - **AIHW - Increased data linkage and release** (\$30m/4years ongoing)
 - **Clinical Trials National Front Door** (preliminary work to develop concept)



Genomic Health Futures Mission (\$500m /10 years)

VISION: Australians living longer and better through access to genomic knowledge and technology



- **FLAGSHIPS** – rare cancers, rare diseases and complex conditions
- **CLINICAL TRIALS** – pre-clinical, functional genomics and targeted and adaptive clinical trials
- **WORKFORCE AND RESEARCHERS** – creation of new highly skilled workforce and new career pathways
- **COMMERCIALISATION** – pharmacological genomics and new to world industries
- **ETHICS, LEGAL AND SOCIAL** – community dialogue that gains technology appreciation and value
- **DATA AND ANALYTICS** – secure storage, access, analysis and sharing with benefit to patients

Groundwork on genomics ...



A Summary: National Health Genomics Policy Framework

Vision				
Helping people live longer and better through appropriate access to genomic knowledge and technology to prevent, diagnose, treat and monitor disease.				
Mission				
To harness the health benefits of genomic knowledge and technology into the Australian health system in an efficient, effective, ethical and equitable way to improve individual and population health.				
Enablers of success				
Collaborative governance and leadership				
Stakeholder engagement				
National and international partnerships				
Strategic priority areas				
Person-centred approach	Workforce	Financing	Services	Data
Delivering high-quality care for people through a person-centred approach to integrating genomics into health care	Building a skilled workforce that is literate in genomics	Ensuring sustainable and strategic investment in cost-effective genomics	Maximising quality, safety and clinical utility of genomics in health care	Responsible collection, storage, use and management of genomic data
Principles				
The application of genomic knowledge is ethically, legally and socially responsible and community trust is promoted.				
Access and equity are promoted for vulnerable populations.				
The application of genomic knowledge to health care is supported and informed by evidence and research.				

NATIONAL POLICY COHESION

STRATEGIC PRIORITIES:

1. person-centred approach
2. workforce
3. financing
4. services
5. Data

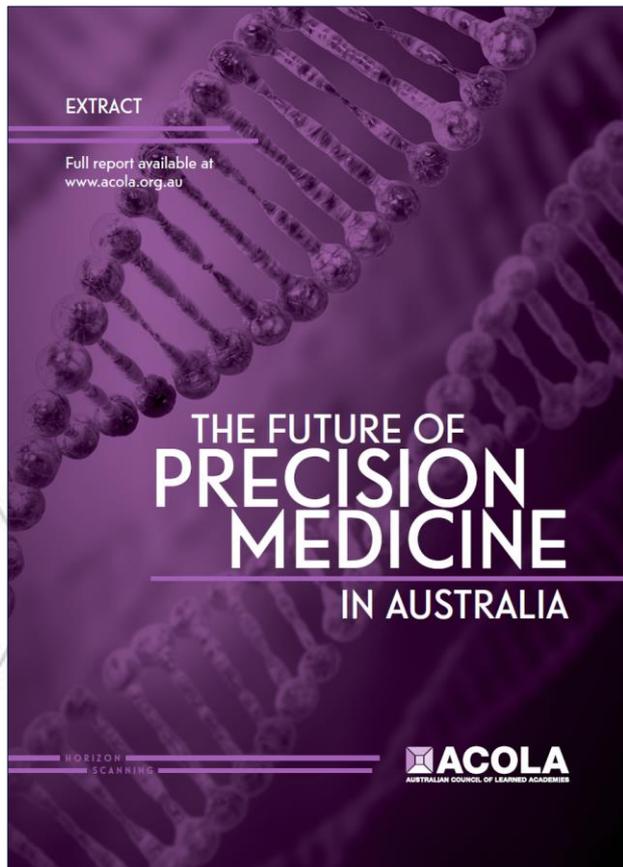
PRINCIPLES:

- The application of genomic knowledge is ethically, legally and socially responsible and community trust is promoted.
- Access and equity are promoted for vulnerable populations
- The application of genomic knowledge to health care is supported and informed by evidence and research.



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Precision medicine has a broad remit – genomics and other omics, epigenetics, gene editing technologies and development of targeted therapies for an individual’s disease profile

CATALYSTS:

1. advances in sequencing technology
2. new treatment, prediction and prevision means
3. collect and codify clinical and research data

Advances will reshape healthcare, invigorate the biotechnology sector and stimulate new fields of research



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Imperative 5 – Culture and ambition:
Enhance the national culture of innovation
by launching ambitious National Missions

Strategic opportunity 5.1

A Genomics and Precision Medicine
National Mission will be an ideal
first mission, delivering health and
innovation benefits for all Australians



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Government authority

GENOMICS HEALTH FUTURES – A 10 YEAR PLAN

Genomics is set to revolutionise healthcare translating Australian invention into better health outcomes, jobs and economic growth. Australia has the right ingredients for success – highly skilled workforce, business know-how, a world class health system and increasing international collaboration. A Genomics Mission can deliver new drugs, devices and therapies – saving and transforming lives at the same time as providing jobs and growth. Public commitment to a Mission will call out Australia's intentions globally, rally co-investment and open a dialogue with the Australian community to ensure this technology is valued and embedded in the health system.

VISION
AUSTRALIANS LIVING LONGER AND BETTER THROUGH ACCESS TO GENOMIC KNOWLEDGE AND TECHNOLOGY
GLOBAL LEADER IN RESEARCH, INVESTMENT AND TREATMENT IN GENOMICS

FOCUS

- FLAGSHIPS** – rare cancers, rare diseases and complex conditions
 - early targets due to typical single point mutations in key genes
 - More than 200,000 Australian lives transformed and saved
 - improved health system efficiency – faster diagnosis and treatment
- CLINICAL TRIALS**
 - pre-clinical, functional genomics and targeted and adaptive clinical trials
 - new diagnostics and treatments with health and economic benefit
 - reaffirm Australia as a destination for clinical trial investment
- WORKFORCE AND RESEARCHERS**
 - creation of new, highly skilled workforce and new career pathways
 - increased international collaboration
 - attraction and retention of talent to Australia
- COMMERCIALISATION**
 - improved research and industry collaboration
 - pharmaceutical genomics and new to world industries
 - growth in domestic manufacturing capacity and onshore investment
- ETHICS, LEGAL AND SOCIAL**
 - community dialogue that gains technology appreciation and value
 - tackling issues of privacy, access and equity, and familial implications
 - legislative and regulatory safeguards and community confidence
- DATA AND ANALYTICS**
 - national standards and protocols with international compatibility
 - leverage existing data holdings to build scale and significance
 - secure storage, access, analysis and sharing with benefit to patients

GOVERNANCE
MISSION STEERING COMMITTEE

- composed of eminent researchers and clinicians and business leaders
- alignment with National Health Genomics Policy Framework

FUNDING
Medical Research Future Fund - \$500 million / 10 years

- new flagships for rare cancers, rare diseases and complex condition
- new clinical trials and technology applications
- co-investment from philanthropy, industry and governments
- workforce development across the spectrum from research to care delivery
- analytics capacity that provides a sustained resource for ongoing growth

OUTCOMES
MORE THAN 200,000 AUSTRALIAN LIVES SAVED AND TRANSFORMED
NEW INDUSTRIES, DRUGS, DEVICES AND THERAPIES – JOBS AND GROWTH

Ministerial priorities:

- **McKenzie's Mission** - \$20m large scale research pilot on reproductive carrier screening to generate evidence for system integration
- **ProCan** - \$20m cancer proteomics
- **Australian Genomics Cancer Medicine Program** - \$50m (non-MRFF) to be matched by leveraged funding from participating centres, industry and philanthropy, to establish eight centres of excellence Australia-wide to deliver genomics-based clinical trials to around 5,000 Australians affected by rare, less common and early onset cancers



Mission Steering Committee

- Time limited – convened for the explicit purpose of determining an operational plan for the Mission to be considered by Government at the end of the year
- This PLAN will among other things:
 - outline the **vision and scope** to drive patient outcomes and technology application
 - define the **rationale, objectives, operating principles and policy** context
 - consider best **governance** solutions – National Genomics Health Policy Framework
 - provide a **decision making framework** and scientific peer review process for ensuring only the best research is funded – MRFF Funding Principles
 - determine the **program logic** to support investment decisions, program design and implementation
 - provide a structured business case to support **data and analytics capacity**
 - establish a **monitoring, evaluation and risk framework**
 - provide a **communication and community engagement framework**
 - determine specific strategies for addressing the **social, ethical and legal issues**



Welcome considerations from today ...

- What is a reasonable Mission scope – genomics and/or beyond?
- What does success look like in 10 years time?
- What is achievable in 10 years with \$500 million?
- How can we ‘scale up’ rather than reinvent?
- How can we shift from ‘cottage industry’ to mainstream application?
- What does it mean for genomics to be business as usual?
- What capabilities are needed and how are they best organised?
- Are there any ‘must have’ features in the Mission architecture to ensure success?
- What are the opportunities for leverage and growth?
- How can the ethical, legal and social issues be addressed?



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More information:

www.health.gov.au/MRFF

MRFF@health.gov.au

2018-19 Budget Factsheets

Life saving and job creating medical research

www.health.gov.au

Interested in accessing MRFF grants?

Register with **GRANTCONNECT** (www.grants.gov.au)

- enables notification of new grants in areas of interest

Thank you