



Fostering the clinical trials landscape in NSW: policies, strategies, initiatives and future plans

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The ecosystem



- Relative to its size, Australia continues to produce a large amount of high quality scientific output (OECD Scoreboard 2016)
- Ranked 5th in the world in biotechnology capability (Scientific American Worldview 2016)
- Poor at translating research innovation into economic benefit for Australia
 - Innovation Efficiency Index – 73 (of 128 OECD countries) (INSEAD Global Innovation Index 2016)

The ecosystem



- Changing way in which health care is delivered
- Complex and dynamic research environment
 - Funding & new strategic directions at Commonwealth level
 - Disruptive, new technologies (data, genomics, proteomics)
 - Need to evolve research methods (adaptive clinical trials)
 - Need for cross-disciplinary teams

Challenge:

How can we create a resilient and responsive research and trials ecosystem to position NSW for the future?

NSW: strong & creative environment for health and medical research



- Large and diverse population
- High quality health and education system
- Excellent clinical and research workforce
- Strong clinical networks and clinical trials infrastructure
- Strong disciplines such as engineering and computing
- Data and analytics capacity
- Strengths in population health and health services research

Setting the scene

- In 2011, NSW Health & Medical Research Strategic Review
- In 2012, NSW Government:

Endorsed the Health & Medical Research Strategic Plan
Established the Office for Health and Medical Research (OHMR)



Incentivise
Collaboration

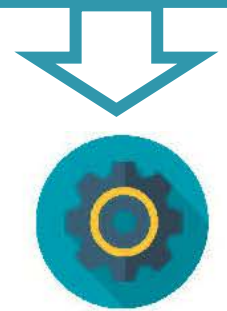


Strengthen Workforce
Capabilities

APPROACH
TO
DELIVERY



Invest in the
Research System



Enablers

2012-2022

NSW Health and Medical Research Strategy



Strategy 1. Foster translation and innovation from research

Strategy 2. Build globally relevant research capacity



**Incentivise
Collaboration**

**Strengthen Workforce
Capabilities**

**Invest in the Research
System**

Enablers

**NSW Health and Medical
Research Hub Strategy**

**Commercialisation
Programs (MDF, MDCTP)**

**Medical Research Support
Program**

**Sector-wide
Communications Strategy**

**Embedding research into
the health system**

**Bioinformatics Training
Program (Genomics)**

**Support research
governance offices**

**Office for Health and
Medical Research (OHMR)**

Genomics Collaboratives

**Support for Early-Mid Career
Researchers (EMC & PhD)**

Enhancing biobanking

**Partnerships in
Proteomics**

**Building clinical trial
capabilities & leadership**

**Strengthen data linkage &
access**

**Translational Research
Grant Scheme**

Cannabis Clinical Trials

Capital Investments

**Improving translational
research methodology**

**Prevention Research
Support Scheme**

Investing in the system: Clinical Trials



- Better coordination
- Accelerate start-up times
- Improve recruitment
- Early phase clinical trial facilities and approval system
- KPIs within LHD agreements

Investing in the system: Translational Research Grants Scheme

Program Objectives

- **Priority-driven research**
- **Relevant to practice & population health**
- **Accelerate implementation**
- **Drive collaboration & practice change**
- **Enhance knowledge translation capability**

Unique Review

Stage 1 - EOI
CE commitment

Stage 2 – Feedback
Policy and practice links
Research methodology
Implementation/scaling
advice

Stage 3 - Full application
Peer review and selection

New Resources

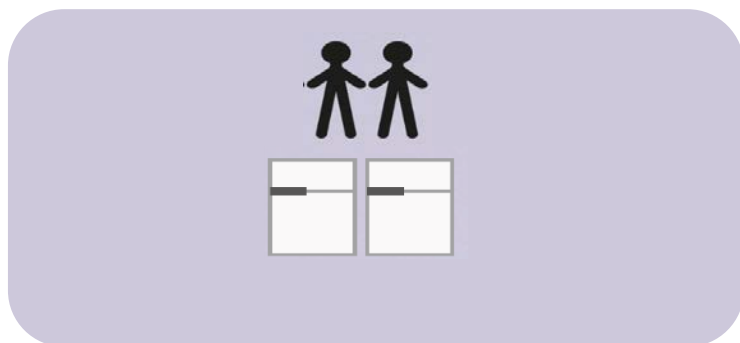


Investing in the system: Genomics and Proteomics

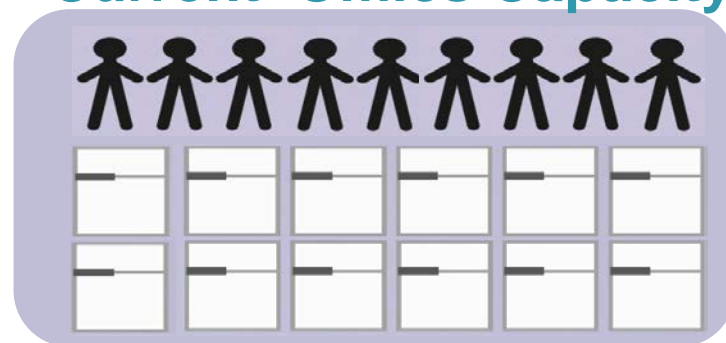


- **Sydney Genomics Collaborative:** Medical Genome Reference Bank, NSW Genomics Collaborative Grants and Cancer Genome Medicine Program
- **Pathogen Genomics Partnership**
- **Cancer Moonshot** (with United States Cancer Proteogenomics)

'Omics Capacity Oct 2012



Current 'Omics Capacity



Investing in the system: Driving commercialisation



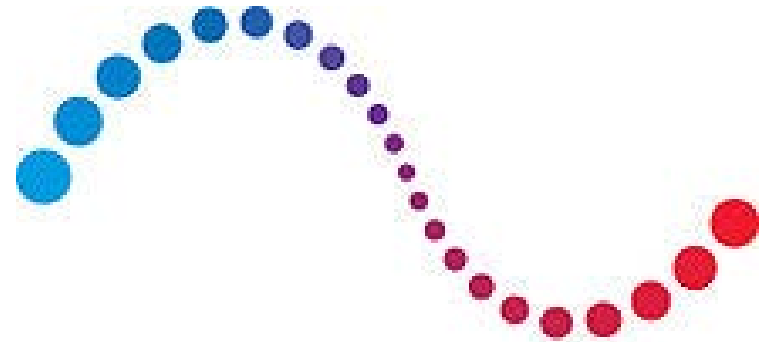
- Priority recommendation of the NSW Health and Medical Research Strategic Review (2012)
- Accelerate the development and commercialisation of medical devices and related technologies
- Support for individuals, companies, public and private hospitals, medical research institutes, universities, other public sector organisations, medical devices industry
- Increase uptake of NSW devices by the NSW Health System

The Mission...create the next



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Hear now. And always



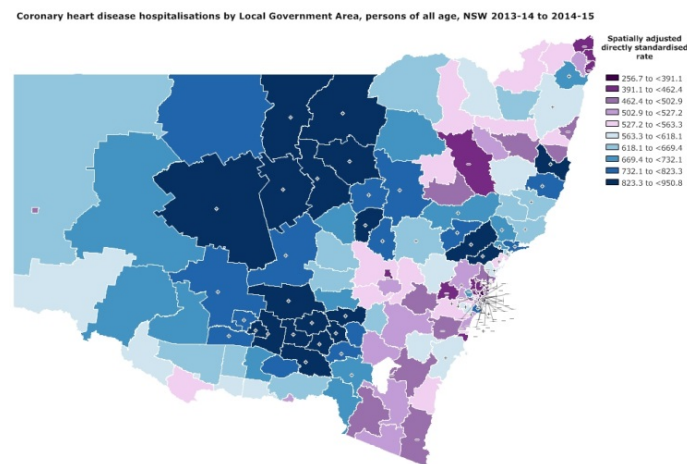
ResMed

Investing in infrastructure: Data access, linkage and analytics



The screenshot shows the HealthStats NSW website. At the top, there is a navigation bar with links for Home, Topics, Locations, HealthStats PLUS, About, and My Report. A search bar is also present. The main content area features a large banner for 'Primary Health Networks' with a map of NSW and the text 'Data now available by location'. Below the banner are three icons: 'Healthy eating' (apple), 'Communicable & infectious diseases' (virus), and 'Immunisation' (syringe). There are also sections for 'Explore' (Topics or Locations), 'New & updated indicators' (bar chart), and 'Recently viewed indicators' (list of indicators). At the bottom, there is an 'Explore Health Statistics' section with 'Top 5 Topics', 'Top 5 Indicators', and 'Top 5 Publications'.

- Web access to population based information
- Downloadable spreadsheets, maps, images, pdfs, “My Report” shopping basket



www.healthstats.nsw.gov.au

Investing in infrastructure: Biobanking



Vision: NSW will possess an internationally collaborative biobanking framework built upon cutting-edge quality management, diverse biological samples and enhanced health data-linkage that enables innovation in healthcare and utilises biobanking as an essential public health asset.

Past Achievements

- **Biobanking Stakeholder Network**
- **Survey of Biobanks**
- **Biobanking Framework**

Present

- **New state-wide Biobanking facility (July 2017)**
- **Quality improvement**
- **Standardisation**
- **Specimen locator**
- **Integration with Pathology**

Near Future

- **Cooperative networked approach across the health system**
- **Universities leveraging biobanking assets**
- **Improved practice**
- **Large scale population collections**
- **Enhanced data linkage**

Investing in the workforce: across the research spectrum



← **NSW PhD Scholarships** →

← **NSW Early-Mid Career Fellowships** →



← → ← → ← →

**Bioinformatics
Training Program**

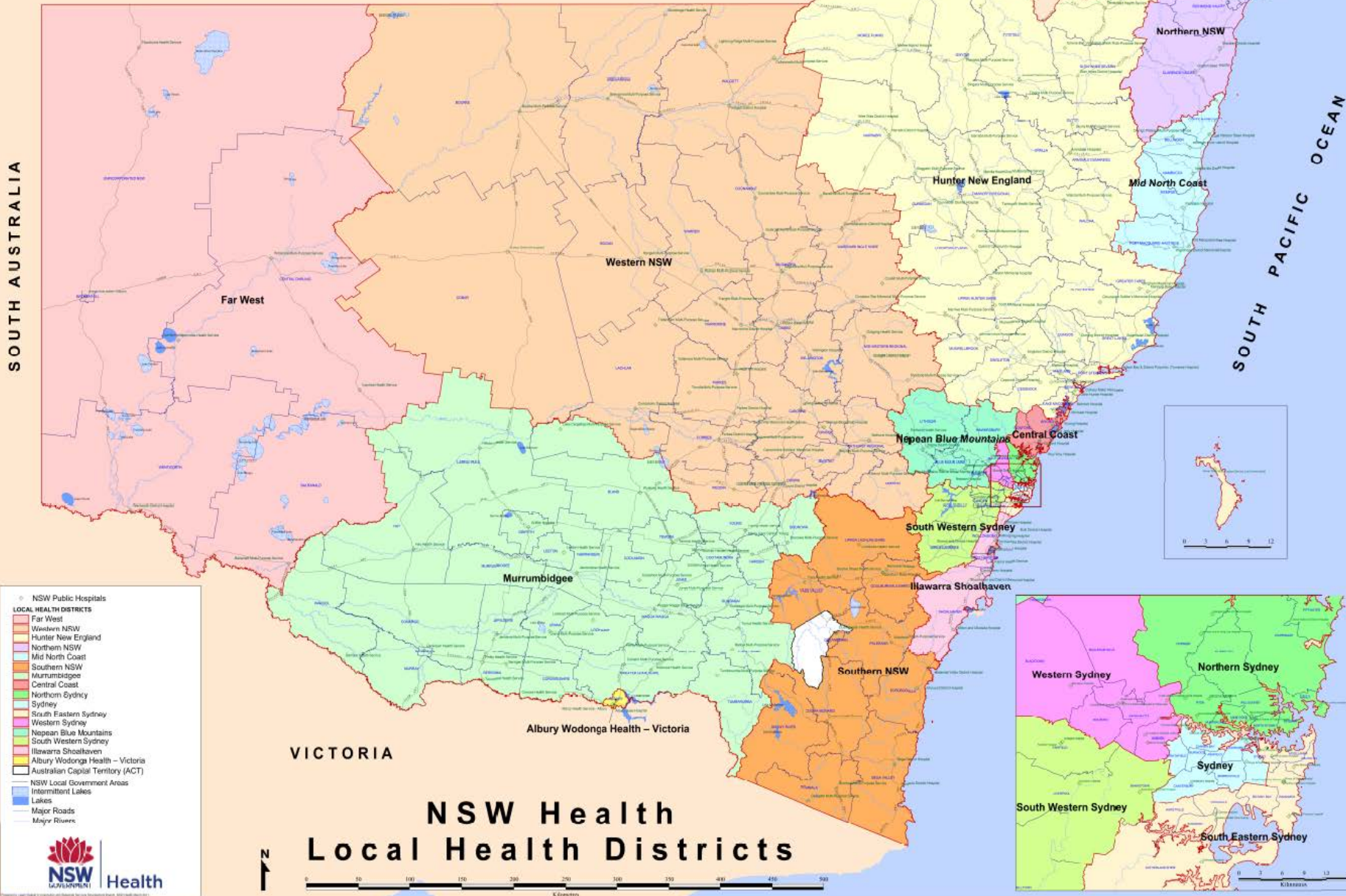
**MDCTP & NSW QB3
Fellowships**

**Translational research
education & support**

QUEENSLAND

SOUTH AUSTRALIA

SOUTH PACIFIC OCEAN

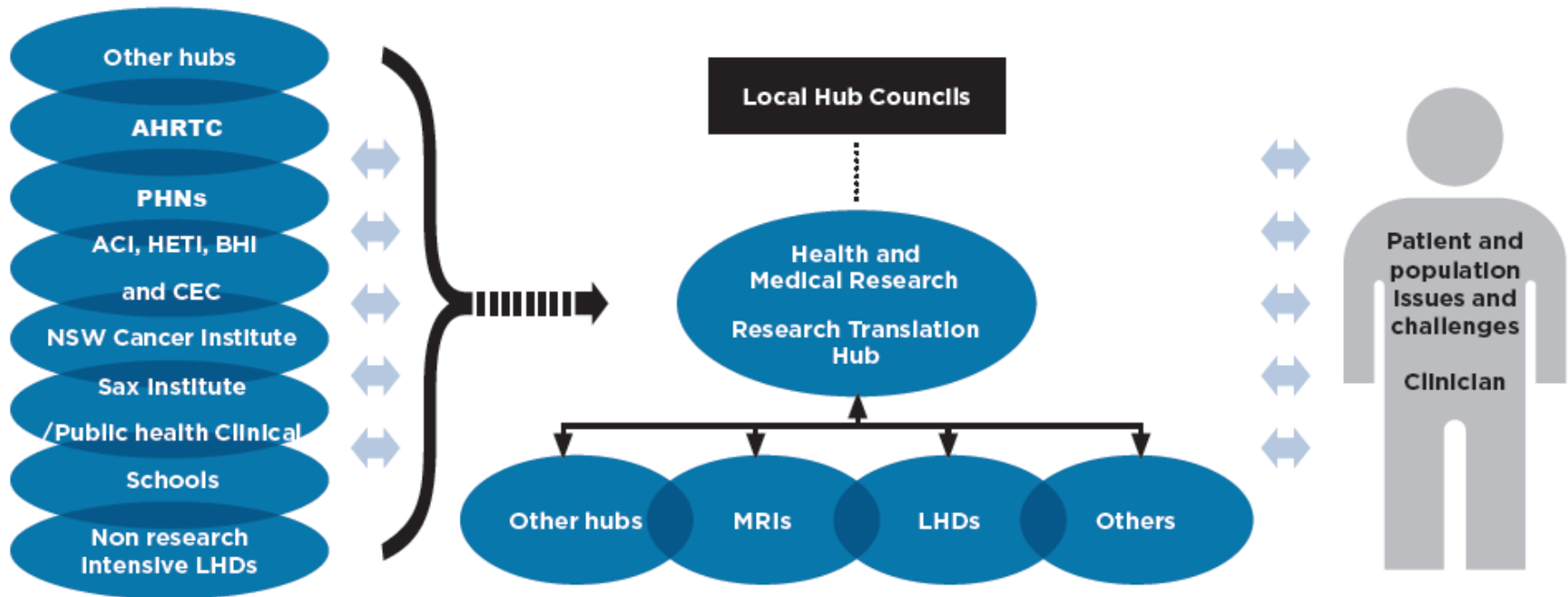


VICTORIA

NSW Health Local Health Districts



NSW Health and Medical Research Hubs



Support platforms and processes



Stakeholders and partners
Regional / State-wide / National / International

Advanced Health Research and Translation Centres (AHRTCs)

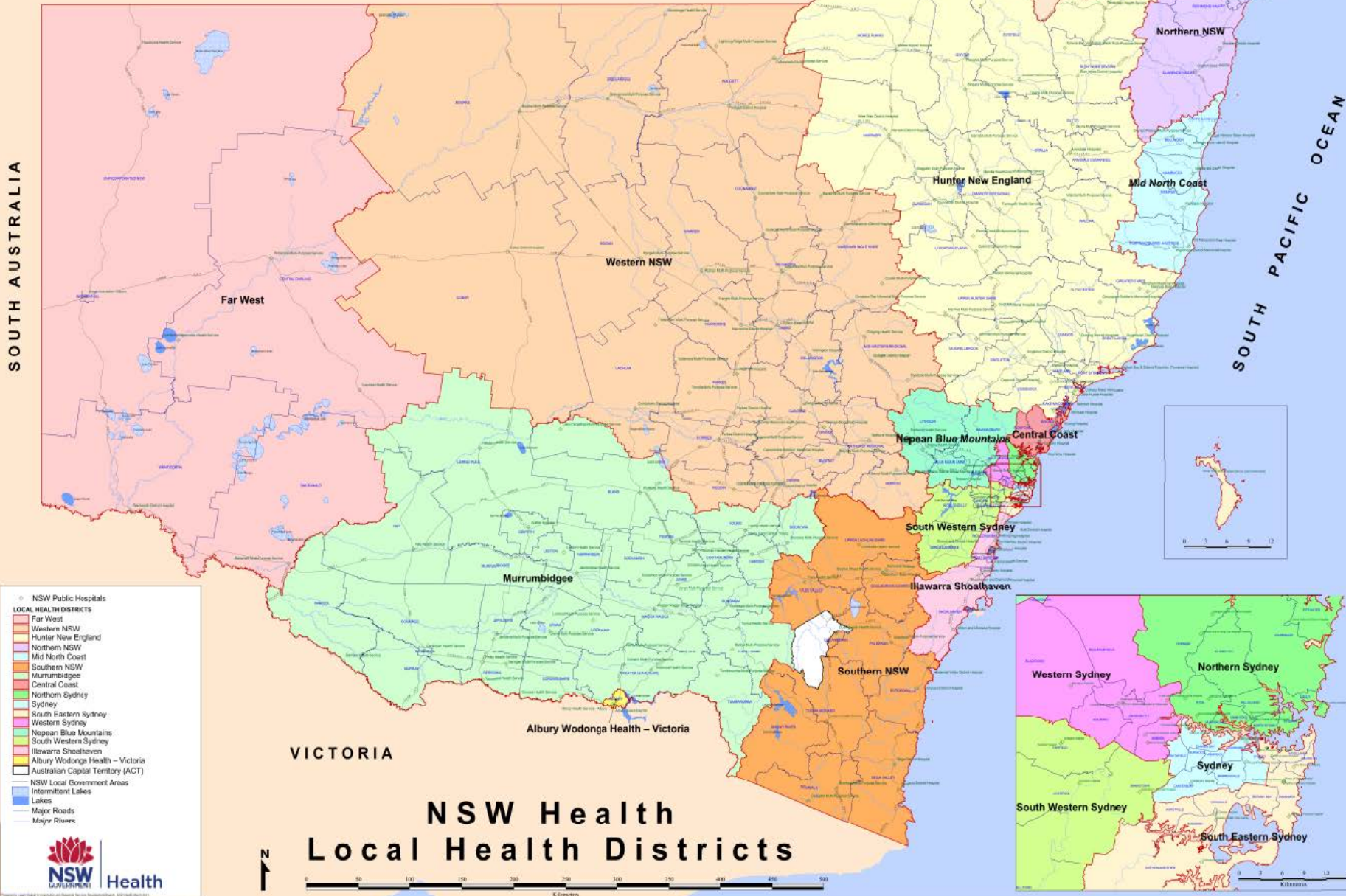


- Sydney Health Partners
- SPHERE
- Hunter

QUEENSLAND

SOUTH AUSTRALIA

SOUTH PACIFIC OCEAN



● NSW Public Hospitals
LOCAL HEALTH DISTRICTS
 Far West
 Western NSW
 Hunter New England
 Northern NSW
 Mid North Coast
 Southern NSW
 Murrumbidgee
 Central Coast
 Northern Sydney
 Sydney
 South Eastern Sydney
 Western Sydney
 Nepean Blue Mountains
 South Western Sydney
 Illawarra Shoalhaven
 Albury Wodonga Health - Victoria
 Australian Capital Territory (ACT)
 NSW Local Government Areas
 Intermittent Lakes
 Lakes
 Major Roads
 Major Rivers



Enablers



- Cross sector communication
- State-wide central coordination and brokerage
- Role of OHMR...

Enhanced role for OHMR as system



Navigators

Coordinators

Problem solvers

Knowledge brokers

Match-makers

Myth-busters

Into the future...

- Build and create programs that achieve collaboration, innovation, translation and workforce development
- Continue to engage health system leadership
- Cross-sectoral teams to solve problems
- Proactive facilitation of collaboration and communication

Further information



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