



# INTRODUCTION FROM MOHW OFFICE FOR TAIWAN

## HEALTH DATA GOVERNANCE

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27 JUNE 2023

# ABOUT TAIWAN



Population

**23.3 million**



Area

**36,197 km<sup>2</sup>**



GDP & GDP/capita

**761.4 billion & 32,756 (USD)**



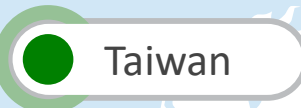
Life Expectancy & Healthy Life Expectancy

**80.9 & 73.3 years**



Physicians Ratio

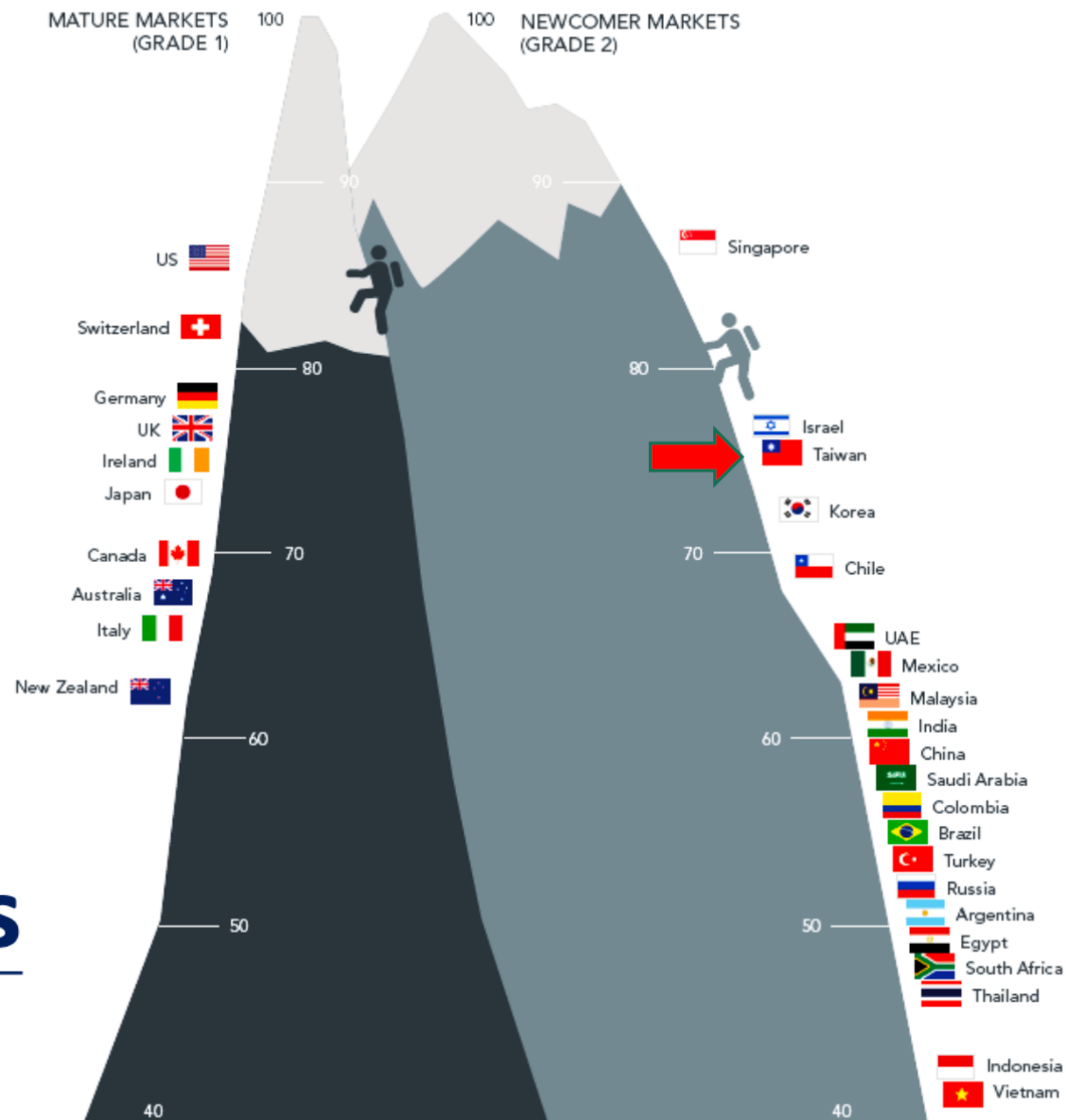
**2.23 per 1,000 Population**



# ABOUT TAIWAN

- Taiwan ranks 3rd in the newcomer markets
- World-class quality of medicine and talent
- The best healthcare system and big data
- High quality clinical trials and R&D capacity
- Well-established research infrastructure
- ICT supply chain, talent and manufacturing
- AI and 5G R&D in national level

## Taiwan Core Competences





ICT

Hospital



Smart Hospital

Healthcare IoT Platform

Health AI

Medical & Wearable Devices

Hospital Equipment

# Cross-industry cooperation at a glance

		<ol style="list-style-type: none"> <li>1) AI medical platform</li> <li>2) Telemedicine / remote care</li> <li>3) AI-assisted arrhythmia diagnosis</li> <li>4) AIoT device/equipment</li> </ol>
		<ol style="list-style-type: none"> <li>1) Genome database for Chinese</li> <li>2) Medical wearables</li> <li>3) Epidemic management products</li> <li>4) Proton therapy / 8K medical imaging</li> </ol>
		<ol style="list-style-type: none"> <li>1) Innovative devices / AI diagnostics</li> <li>2) Health &amp; chronic disease management</li> <li>3) Medical imaging for animals</li> <li>4) Cell therapy / AIoT solutions</li> </ol>
		<ol style="list-style-type: none"> <li>1) Miniaturization of medical equipment</li> <li>2) Exoskeleton / assistive devices</li> <li>3) AI dialysis / medical AI imaging</li> <li>4) Digital pathology / health management</li> </ol>
		<ol style="list-style-type: none"> <li>1) Telehealth / IoT products</li> <li>2) Auto detection of CTC</li> <li>3) Data integration of sports health</li> <li>4) AI-assisted detection of disease</li> </ol>

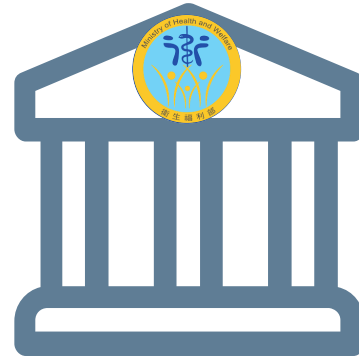
# ABOUT TAIWAN

## In 1995

National Health Insurance (NHI) program has been launched.

## In 2002

Taiwan's National Health Research Institutes (NHRI) established and continue to maintain Taiwan's National Health Insurance Research Database (NHIRD) for public research purposes.



## Taiwan Ministry of Health and Welfare

## In 2010

The Human Biobank Management Act of Taiwan have been implemented

## In 2022

The Taiwan Constitutional Court ruled that it is unconstitutional for NHI to provide personal information collected by the NHIRD to a third party for secondary use.

## 35 Human Biobanks

# Approximately 836,727 Participants

Name	Est.	Participants	Name	Est.	Participants
Cathay General Hospital Biobank	2014	2,266	Koo Foundation Sun Yat-Sen Cancer Center Biobank		
Tri-Service General Hospital Biobank	2014	4,100	Chi Mei Medical Center Biobank	2013	14,575
Landseed International Hospital Biobank	2014	16,273	Chung Shan Medical University Hospital Biobank	2012	9700
Chiayi Chang Gung Memorial Hospital Biobank	2014	2,000	Far Eastern Memorial Hospital Biobank	2016	581
MJ Health Data and Biobank (by MJHRF)	2014	107,231	E-DA Hospital Biobank	2014	3785
Taichung Veterans General Hospital Biobank	2014	106,673	The Human Biobank of Kaohsiung Medical University Hospital Medical System	2016	2,205
National Health Research Institutes Biobank	2014	16,205	Linkou Chang Gung Memorial Hospital Biobank	2013	70,279
Ditmanson Medical Foundation Chia-Yi Christian Hospital Biobank	2014	1735	Taipei Veterans General Hospital Biobank	2014	33,192
Keelung Chang Gung Memorial Hospital Biobank	2015	375	Hualien Tzu Chi Hospital Biobank	2016	534
Taipei Tzu Chi Hospital Biobank	2018	1,606	National Cheng Kung University Hospital Biobank	2013	9,574
Lotung Pohai Hospital Biobank	2013	160	Mackay Memorial Hospital Biobank	2014	1,011
Kaohsiung Veterans General Hospital Biobank	2015	5,432	Tungs' Taichung MetroHarbor Hospital Biobank		
China Medical University Hospital Biobank	2012	11,902	Taipei Medical University Joint Biobank	2013	28,482
Taiwan Biobank (by Academia Sinica)	2012	198,154	Changhua Christian Hospital Biobank	2013	3,902
Shin Kong Wu Ho-Su Memorial Hospital Biobank	2019	100	Taipei City Hospital Biobank	2013	864
Taichung Tzu-Chi Hospital Biobank	2020	---	Kaoshiung Chang Gung Memorial Hospital Biobank	2014	13,750
Tainan City Government Biobank	2013	137,182	Taoyuan Hospital, Ministry of Health and Welfare Biobank		
National Taiwan University Hospital Biobank	2012	8,719			

Reference: Ministry of Health and Welfare of Taiwan. Biobank (2023); National Biobank Consortium of Taiwan (2023)

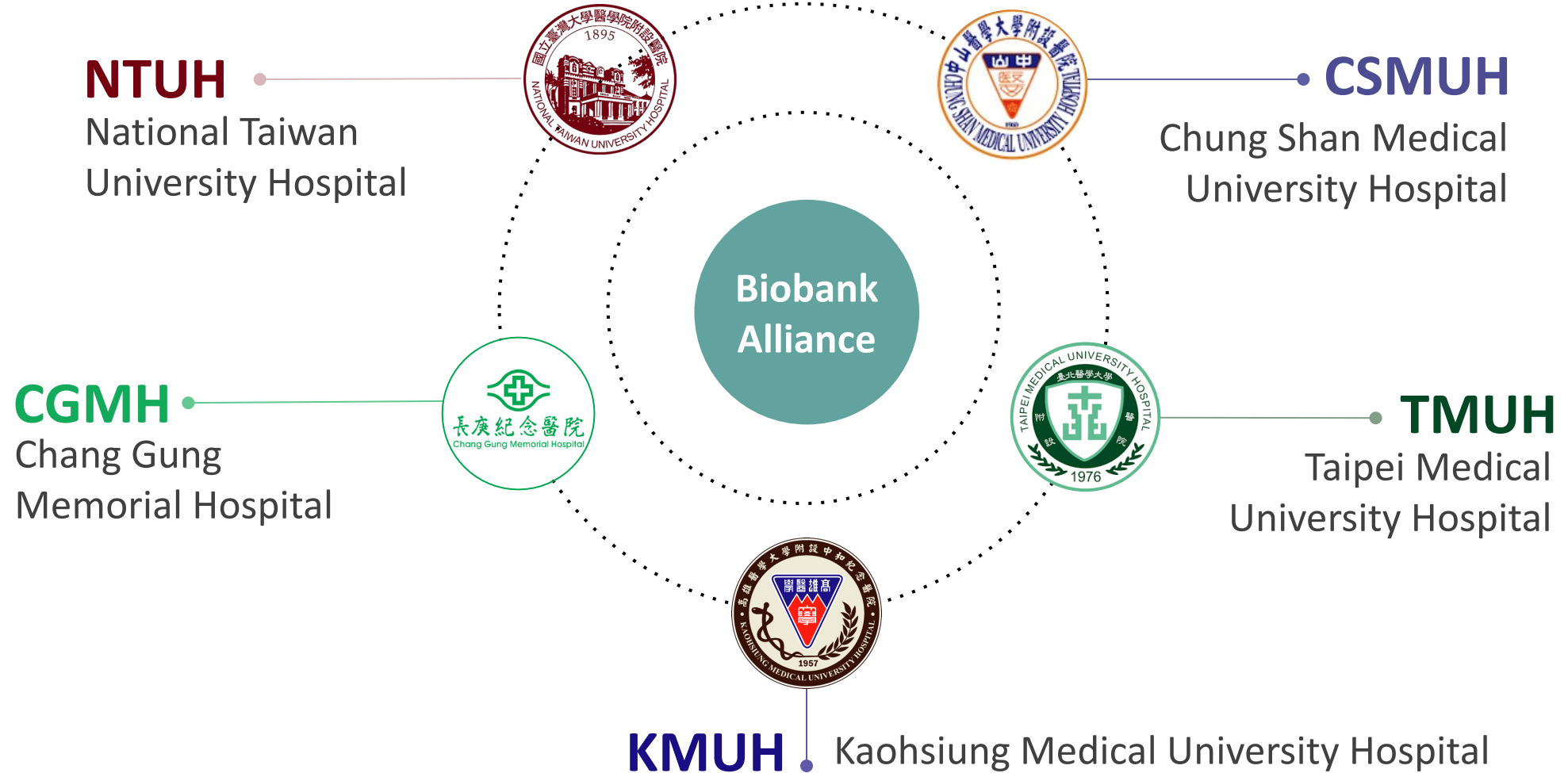
## OUR PROJECT

### PROGRAM GOALS

1. Establish MOHW office for Taiwan Health Data Governance Office.
2. Establish the Taiwan Health Data Governance Pilot Alliance.
3. Organize symposiums and create a communication platform for business entities, government, and research institutes in precision medicine.
4. Learn from and with other countries to strengthen Taiwan's regulation implementation.
5. Assist MOHW in amending existing regulations for data exchange and **secondary use of data.**



# TAIWAN HEALTH DATA GOVERNANCE PILOT ALLIANCE



- **THE LEGAL FRAMEWORK OF LIFEbit** TO ENSURE ETHICAL AND TRANSPARENT PRACTICES IN OBTAINING AND USING BIOBANK SAMPLES.
- **COLLABORATION AND PARTNERSHIPS** BETWEEN RESEARCH INSTITUTIONS, HEALTHCARE PROVIDERS, GOVERNMENTS, AND BUSINESS ENTITIES.
- **DATA SHARING AND OPEN SCIENCE** THE FEEDBACK MECHANISM FROM THE SCIENTIFIC COMMUNITY FOR GENERATING DATA.



**THANK YOU!**

**PLEASE SHARE YOUR THOUGHTS AND COMMENTS.**

**Healthcare**  
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### INDUSTRY LANDSCAPE SHAPED BY BIOTECH, IT/ICT & HOSPITALS

With hospitals undertaking half of the exhibition floor, the Healthcare Expo stages a vigorous healthcare ecosystem at its centre bolstered by IT/ICT, biotech, electronic and semiconductor sectors. Increasingly the technology sector plays a key role in healthcare transformation, working closely with hospitals to co-develop, optimise and bring integrated solutions to market.



### MEET HOSPITAL, ICT, BIOTECH LEADERS IN ONE PLACE

- Hospitals and their decision makers from around the world
- Multinational IT and ICT giants active in healthcare business
- Leading hardware-software-integrated solution providers
- Award-winning medical AI developers and innovators
- World-class pharmaceutical CMO/CDMO companies
- Top-notch services for cell therapy and gene therapy



### CONNECT TO THE BEST IN MEDTECH, BIOTECH AND HEALTHTECH

#### Medtech

- Smart hospital solutions
- Medical devices & equipment
- Digital health technologies

#### Biotech

- Diagnostics, lab equipment & services
- Biopharmaceutical products & services
- Regenerative medicine products & services

#### Healthtech

- Preventive medicine
- Consumer health
- Long-term care & assistive technology



### WRAP-AROUND EVENTS & EXHIBITION

#### MEDTEX Summit Asia

For a debut of novel technologies and products

#### Innovation Demo Day

Where VCs identify targets for investment

#### Cancer Treatment in APAC

Uncover breakthroughs and therapeutics

#### InnoZone

Grand showcase for award-winning startups

Organised by

