

Insight into Taiwan's Healthcare Ecosystem and Collaboration Opportunities between Australia and Taiwan advanced medical technologies



PRESENTER

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CEO

**Institute for Biotechnology and
Medicine Industry (I.B.M.I.)**

About IBMI & RBMP



I.B.M.I.



Institute for **B**iotechnology and **M**edicine **I**ndustry
Research Center for **B**iotechnology and **M**edicine **P**olicy

- **Established Year** 2002 (IBMI)/2009 (RBMP)
- **Board of Members** Government Officials; Leaders from Academia/Medical Centers and Industry



Funder

Jin-Pyng Wang
Former President
of Congress



**Honorary
Chairperson**

Wei-Chao Chen
Former President
of National
Taiwan University



Chief Consultant
Chi-Huey Wong
Former President of
Academia Sinica
2014 Wolf Prize
Winner



Chairperson

San-Cheng Chang
Former Premier



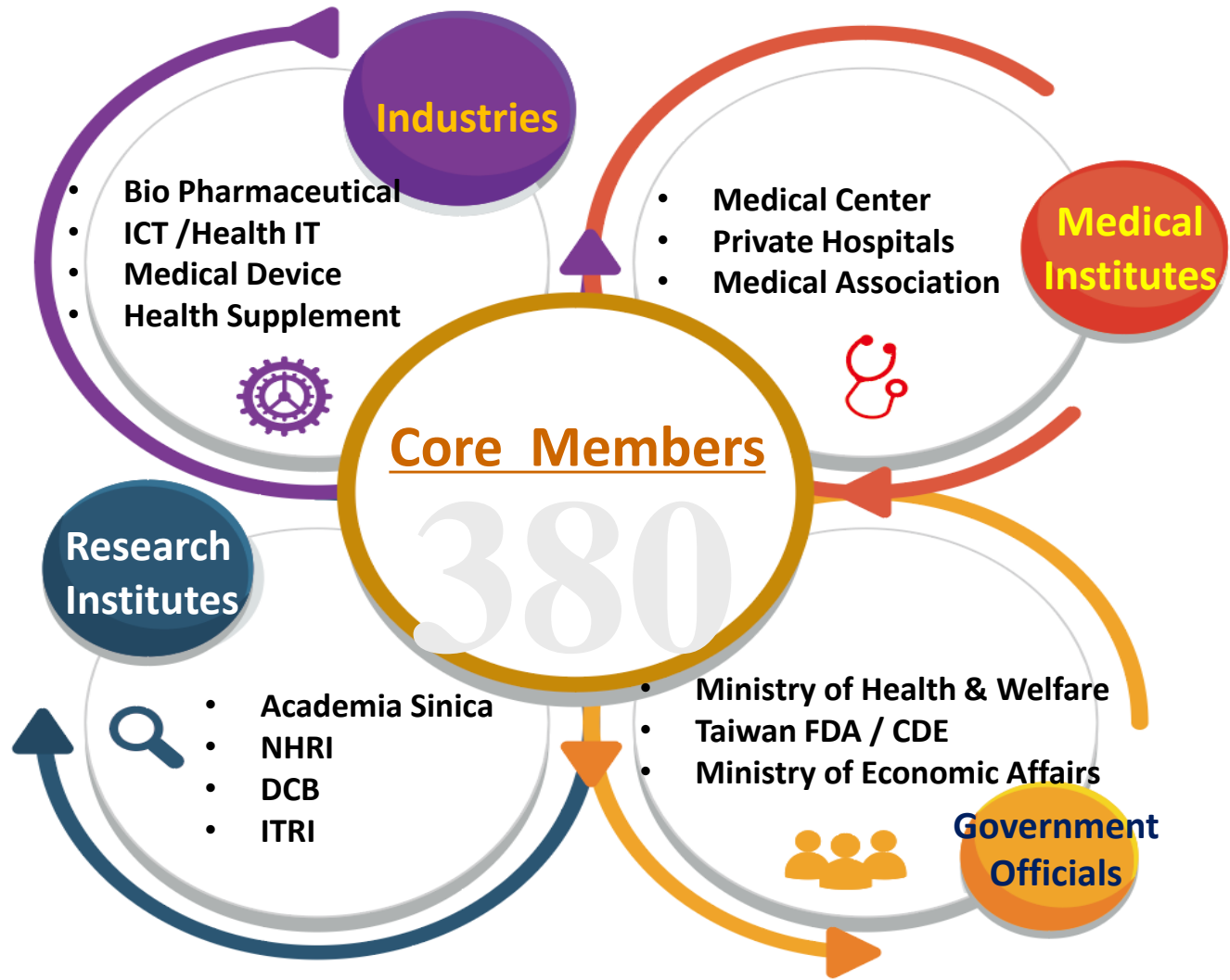
Vice Chairperson

Pan-Chyr Yang
Former President
of National Taiwan
University



Vice Chairperson

Wen-Chang Chang
Chairman of the Board
of Trustees of Taipei
Medical University





Our Missions

Integrate resources and promote the biomedical and healthcare industry



Policy Think Tank

- Symbol of National Quality (SNQ) certification system
- National Innovation Awards
- National Quality Awards

- Act for the Development of Biotech and New Pharmaceuticals Industry
- Cross-Strait Cooperation Agreement on Medicine and Public Health Affairs
- The Human Biological Database Management Act

Award & Certification

Global Partnering Platform

Taiwan Healthcare⁺
Taiwan Healthcare⁺ Expo

Biomedical Angel Fund
Star-up investment..

Start-up Incubation



Taiwan's advantage in Digital Healthcare Industry

Advantages of Taiwan Medicine



Outstanding Healthcare Insurance System

- ❖ 99.6 % of Taiwan's 23.57 million people covered under the government-run National Health Insurance (NHI)
- ❖ Good accessibility-The NHI has a very high approval rate among Taiwanese people



High Quality Healthcare Services

- ❖ Out of 200 of the largest hospitals in the world, 14 are in Taiwan.
- ❖ Taiwan ranks third, just after the USA and Germany, in terms of medical service quality.
- ❖ shorter wait times for beds in large hospitals and medical centers



World-class Health Database

- ❖ National Health Insurance Research Database has been collected for more than 20 years
- ❖ Medical centers with complete medical record and imaging data

Advantages of Taiwan ICT industry



Most concentrated industry clusters

- ❖ World's densest and most technologically advanced semiconductor production base.
- ❖ The Major Procurement Center for Global ICT Companies & Buyers



Strong ICT manufacturing capabilities

- ❖ **Rich manufacturing experience and outstanding technologies**
- ❖ The heart of the world's tech supply chain, offering high-quality products from IC design, semiconductor, to electronics.



Rapid Commercialization

- ❖ Ranked 1st in Worldwide Major ICT product market share for more than 10 products
- ❖ **High levels of hardware/software integration capability for flexible production and rapid commercialization**



ICT



Hospital



Smart Hospital



Healthcare IoT
Platform



Health AI



Medical &
Wearable Devices



Hospital
Equipment

Taiwan Leading ICT Players into Digital Health



No. 24 of Fortune Global 500
No. 1 of EMS Providers Global



No. 432 of Fortune Global 500
No. 5 of EMS Providers Global



Top 10 Electronic ODM Global
Top 3 manufacturers of TFT-LCD



Quanta Computer
No. 354 of Fortune Global 500



No. 404 of Fortune Global 500
No. 1 of NB manufacturer Global



One of leading Industrial
Computer Providers Global



Top 3 Manufacturers of AMD
Graphics Cards



One of Leading EMS-ODM
Manufacturers Global



No. 5 of Best Laptop Brands 2018



No. 4 of PC manufacturer Global
No. 4 of Best Laptop Brands 2018



Top 3 DLP Projector Manufacturer
One of Leading LCD Backlight Module
Manufacturers Global



One of Leading Smartphone
Brands Global



Top 3 ODD manufacturers
Top 10 EMS Providers Global



World's leading smartphone camera
lens supplier



One of leader in power and thermal
management solutions in the world



One of the Largest
Telecommunications Services
Taiwan



One of the Largest
Telecommunications Services
Taiwan



Cell Therapy



睿田生技
Retain Biotech



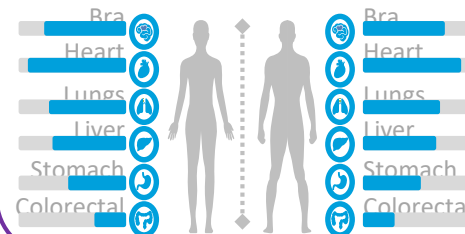
台大醫院
National Taiwan
University
Hospital

Precision Medicine



康聯預防醫學
HEALTHCONN

Genetic Tests



Big Data Analysis on Genetics

Cancer MoonShot 2020 Project



FOXCONN

YongLin Healthcare Foundation



NantWorks



Chinese
Genome
Database



华大基因
BGI



FOXCONN



樂養健事業群
Healthcare Business Group

Healthcare Management



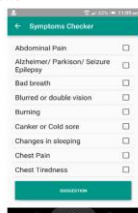
永悦健管
Yongyue Health
Management



H2U LiFE



(a)



(b)



(c)

Molecular Detection

SHARP
LIFE SCIENCE



睿軒檢驗科技

Rapidsure Tech

BioChip

Food Science

Smart Hospital Solutions

Featured Products

Medical Carts



Medical Computers



Medical Tablets



Medical Monitor

Surgical Monitor

Diagnostic Monitor

Clinical Monitor

Intelligent Power System

Medical Power Storage System

Smart Battery Kit

Intelligent Power Storage System



Medical Workstation

Smart Ward

Smart Clinic

Smart Nurse Station

Medication Administration

Telehealth Applications

Featured Products

Medical Device

Qflux Dialyzer

Hearing

Diagnostic Ultrasound

Transport Robot

Medical Consumables

Operating Room

Surgical Tables

LED Surgical Light

Surgical Monitor

iQOR Digital System



Solutions

Smart Operation Room



ODM / OEM of
Medical Device

Other Smart Healthcare Solutions

Fitness System



Smart Wearables

Smart Ward

Health Management System

Long-Term Care Monitoring Solution

Taiwan leading hospitals are expanding their productivity from building smart hospital...



ICT Players launch products and solutions:

- ◆ Smart Nurse Station
- ◆ Smart Ward
- ◆ Smart Clinic
- ◆ Smart Counter
- ◆ Smart Dialysis
- ◆ Smart Operation Room
- ◆ Multimedia interaction
- ◆ Accompany robot
- ◆ Logistics Management

⋮

Smart Hospital

Changhua Christian Hospital

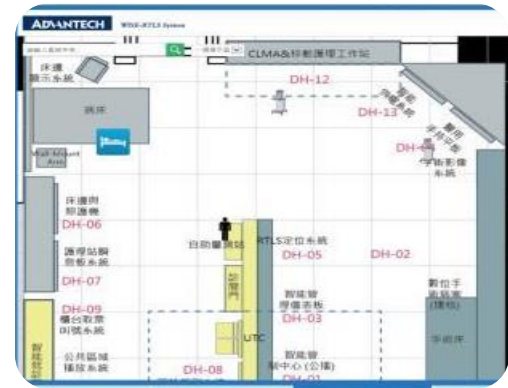
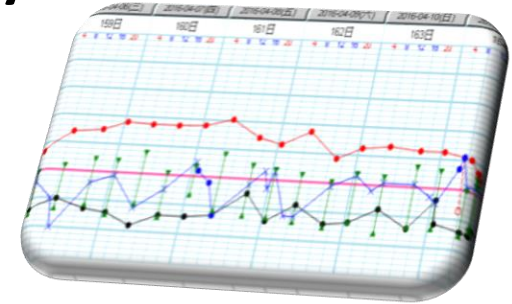


**U.S. Green Building
Council LEED Gold
Level Certification on
Dec, 2015**



Smart Ward: Wireless Ecg/RtIs Mobile Devices

- ◆ Upload vital sign data automatically
- ◆ Reduce human error
- ◆ Critical alarm system
- ◆ Patient localization



Smart Ward: Beside Infotainment System

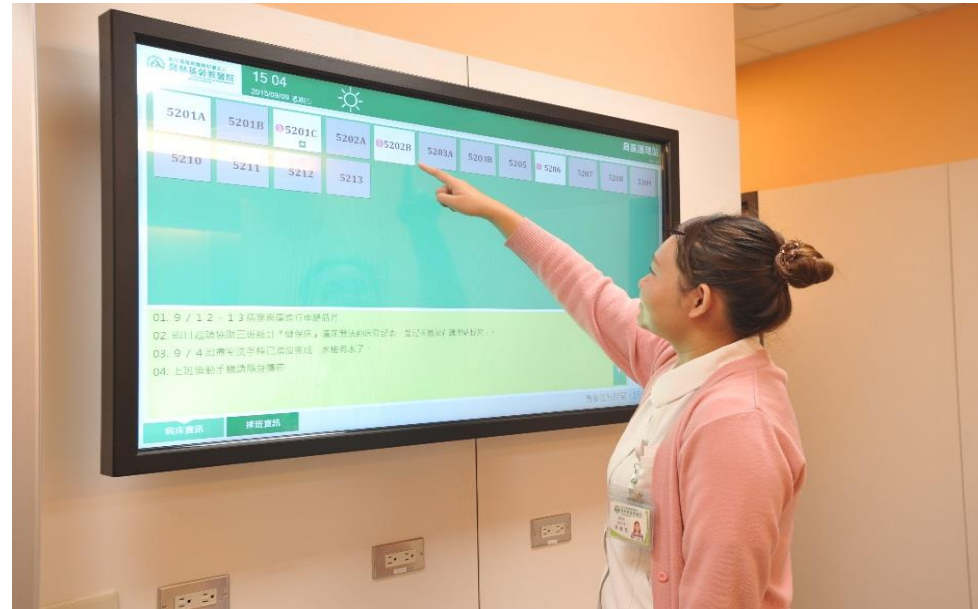
- ◆ Interactive environment
- ◆ Disclosure real-time information
- ◆ Treatment schedule



Smart Nurse Station: Nursing Dashboard

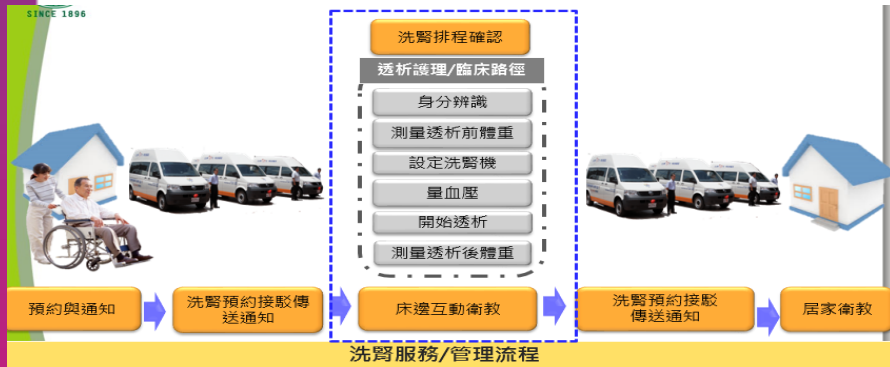
Improvement Nurse Care Quality and Work Flow

1. No paper works
2. Real time nursing shifting
3. Real time patient information (location, activity, schedule)
4. Pre-alarm system



Smart Nurse Station: i-Hemodialysis System

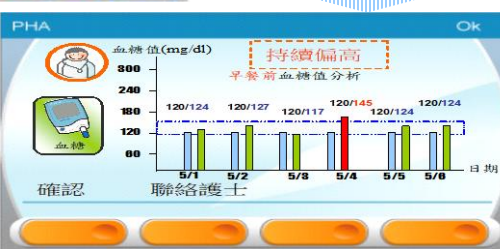
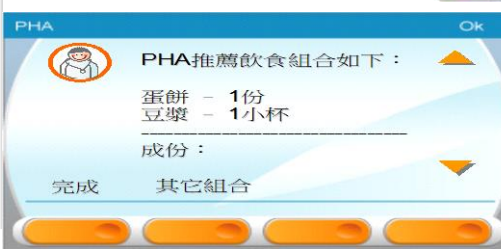
- ◆ Central nurse control panel
- ◆ Nurses dash board
- ◆ Patient information system
- ◆ Schedule, Work Flow, Education



Telecare: Diabetes Integrated Health Care Center

Hospital visit / Long-distance care

Individualized devices





Collaboration Opportunities between Australia and Taiwan

The Successful Solution to Smart Healthcare

- Taiwan has become the most important exporting Smart Hospital Solution country in Asia.

- Offer total solutions to the potential collaborators to build smart hospitals or improve hospital management effectiveness
 - China
 - Malaysia
 - Thailand
 - Vietnam
 - Indonesia

- Welcome Australia Medical Software Industries to collaborate with Taiwan for the huge Asia-Pacific Healthcare market.

2019

Healthcare
EXPO · TAIWAN

Where Tech Meets Medicine

Meet the booming healthcare market demand in
Asia's best healthcare expo!

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