



臺灣健康產業現況 與跨域人才培育



錢宗良

Chung-Liang Chien, Ph.D.

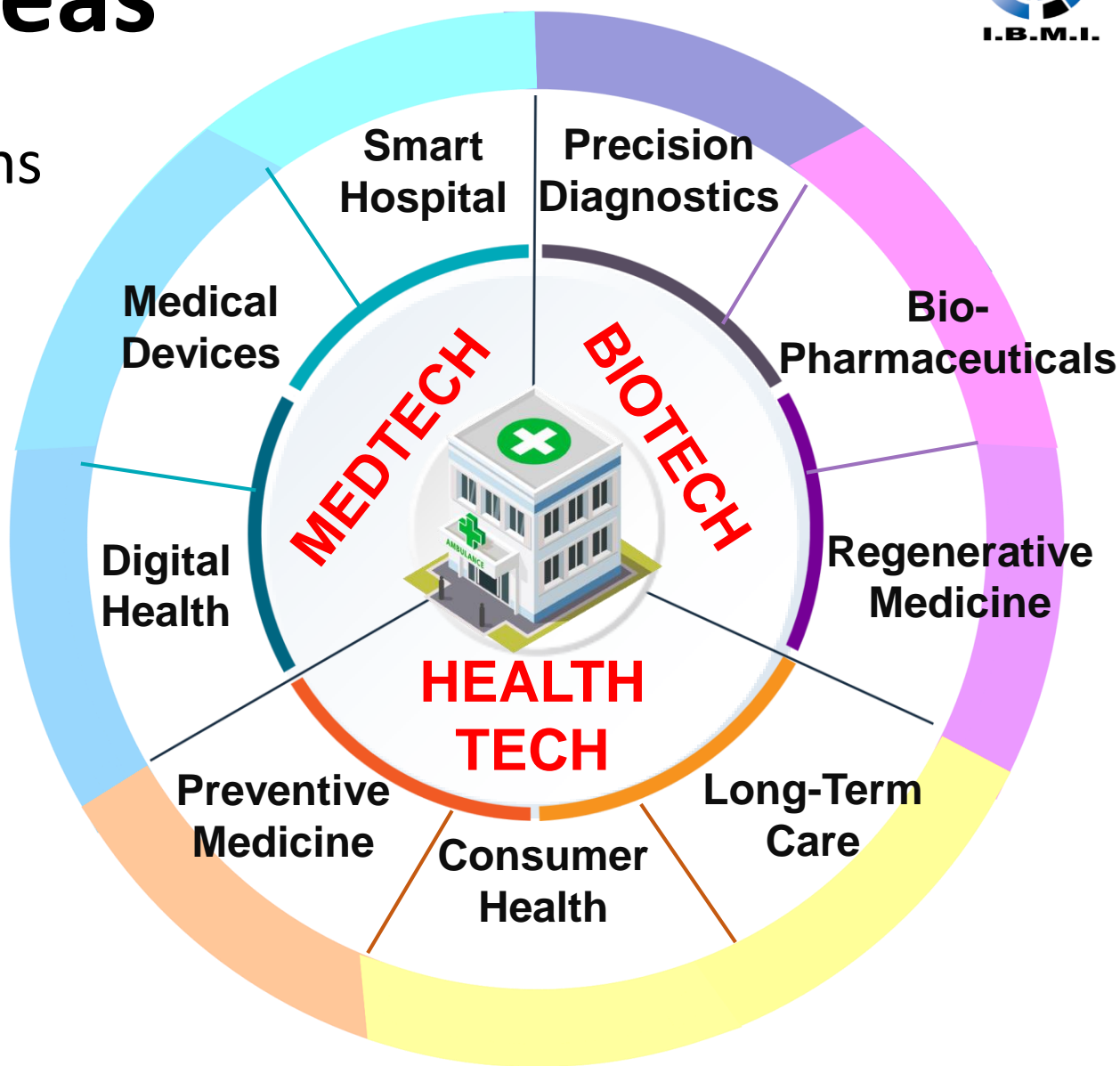
Professor, College of Medicine, National Taiwan University
CEO, Institute for Biotechnology and Medicine Industry

2024-07-19

Taiwan- Focused Areas

The IBMI accelerates collaborations of **Medtech, Biotech** and **Health tech** sectors, providing them a platform to display novel technologies and solutions and inspiring innovations and partnerships in healthcare.

Regenerative Medicine is one of important Biotech in Taiwan.

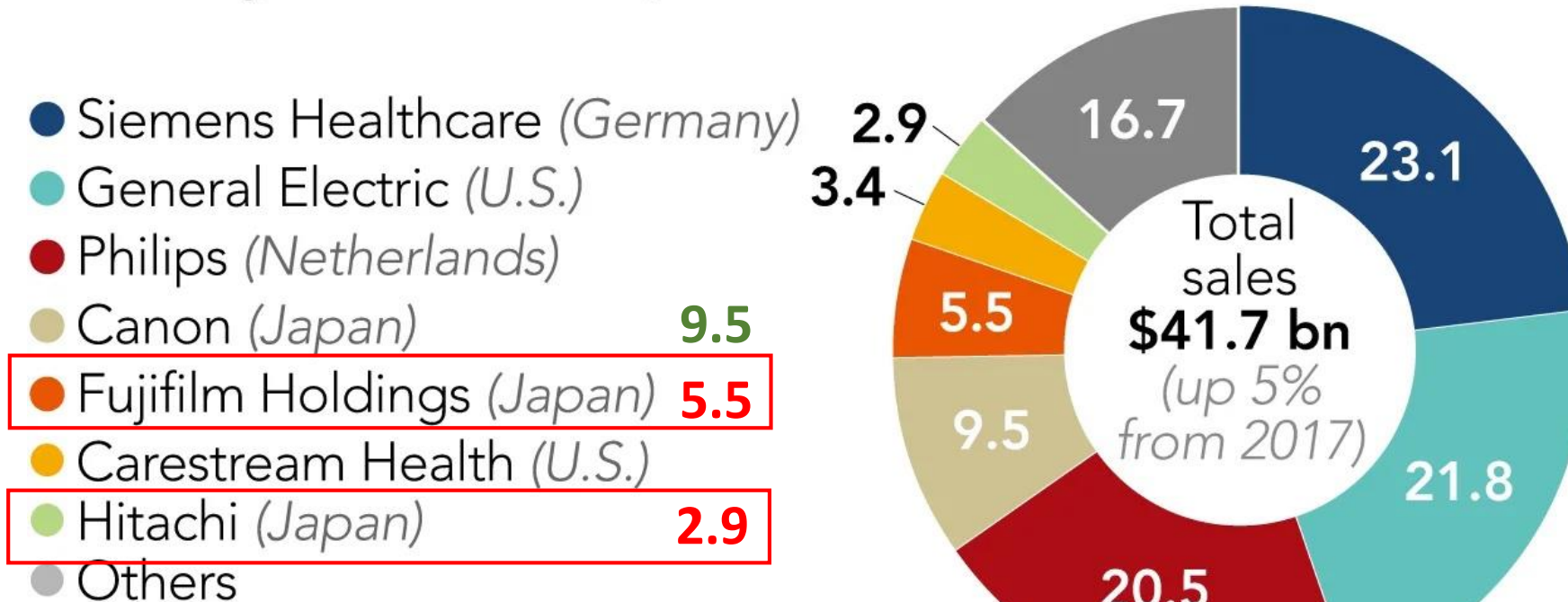


Taiwan ICT companies setting foot in healthcare

	Mobile health	Medical equipment	Smart hospital	Gene/cell therapy	Biomedicine	
Companies						
Product pipelines	<ul style="list-style-type: none"> ■ Telehealth ■ IoT solutions ■ Wearables ■ Health management 	<ul style="list-style-type: none"> ■ X ray / ultrasound ■ Micro CT ■ Surgical / service robots ■ Capsule endoscopy ■ Hemodialyzer ■ Molecular pathology ■ Vital sign monitor 	<ul style="list-style-type: none"> ■ Smart ward/operating room ■ Surgical VR ■ AI solution ■ HMS ■ EMR / EHR ■ Medical display 	<ul style="list-style-type: none"> ■ DNA sequencer ■ DNA microarray ■ Protein & genetic testing ■ CTC system ■ Cellular therapy 	<ul style="list-style-type: none"> ■ AI chip ■ Biochip for gene sequencing ■ RF & Wireless chip ■ Biosensor ■ Display component ■ Organic semiconductor 	
Areas of application						

Fujifilm Healthcare acquires Hitachi Diagnostic Imaging in 2021

Diagnostic imaging equipment global market share by sales (2018, in percent)



Source: Evaluate **8.4 + 9.5 = 17.9 (Japan)**

Fujifilm Healthcare presented a complete and integrated portfolio of diagnostic products and services, including CT, MRI, X-ray, AI, PACS, endoscopy and ultrasound systems.

Fujifilm “One-Stop” solution partner for the Healthcare systems

ONE-STOP Solutions

Fujifilm has a wide range of products including diagnostic X-ray imaging equipment, ultrasound systems, endoscopy, in vitro diagnostics, CT, MRI, and by positioning medical informatics as an open platform, the company can offer a wide variety of solutions to healthcare systems.

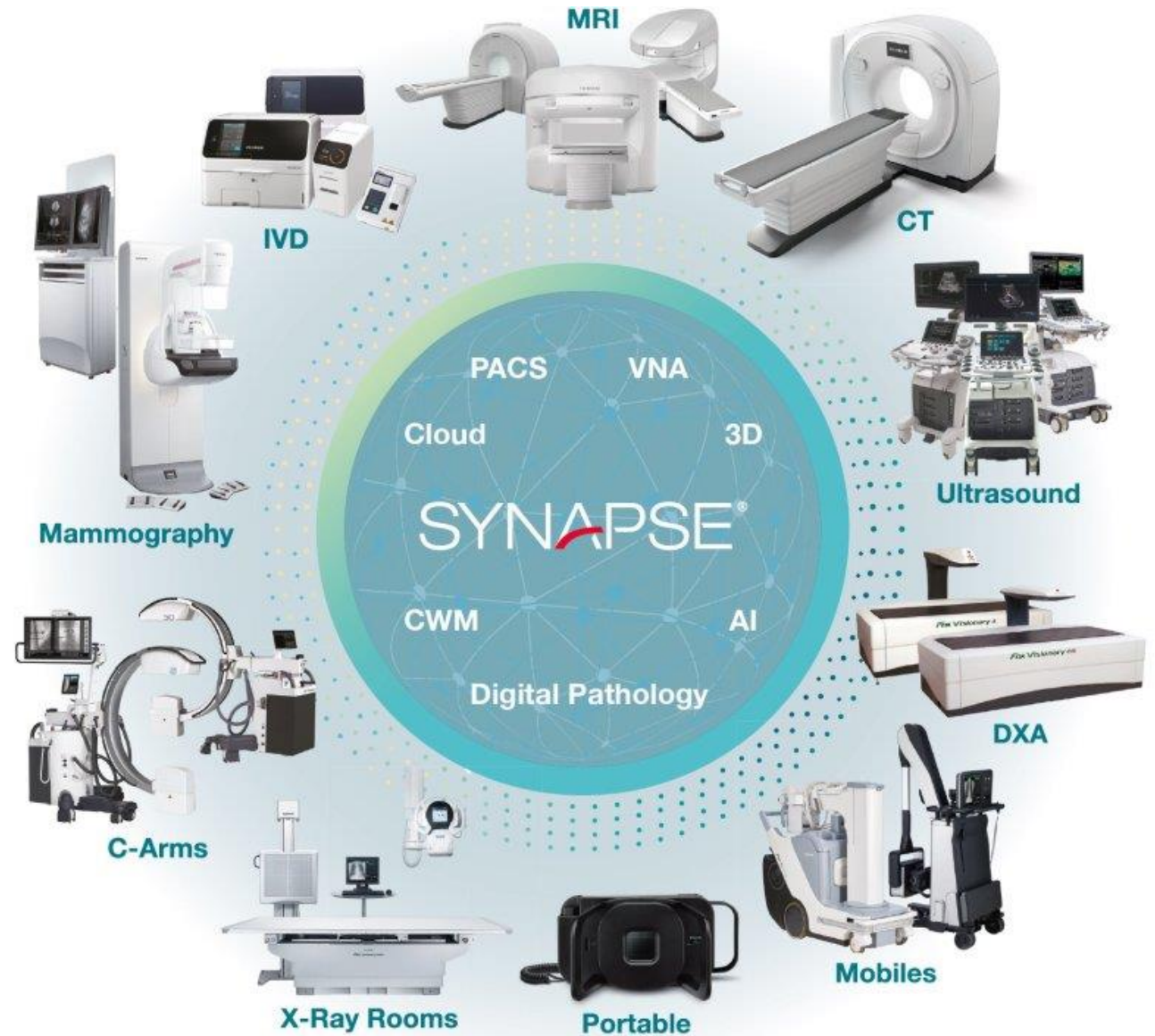
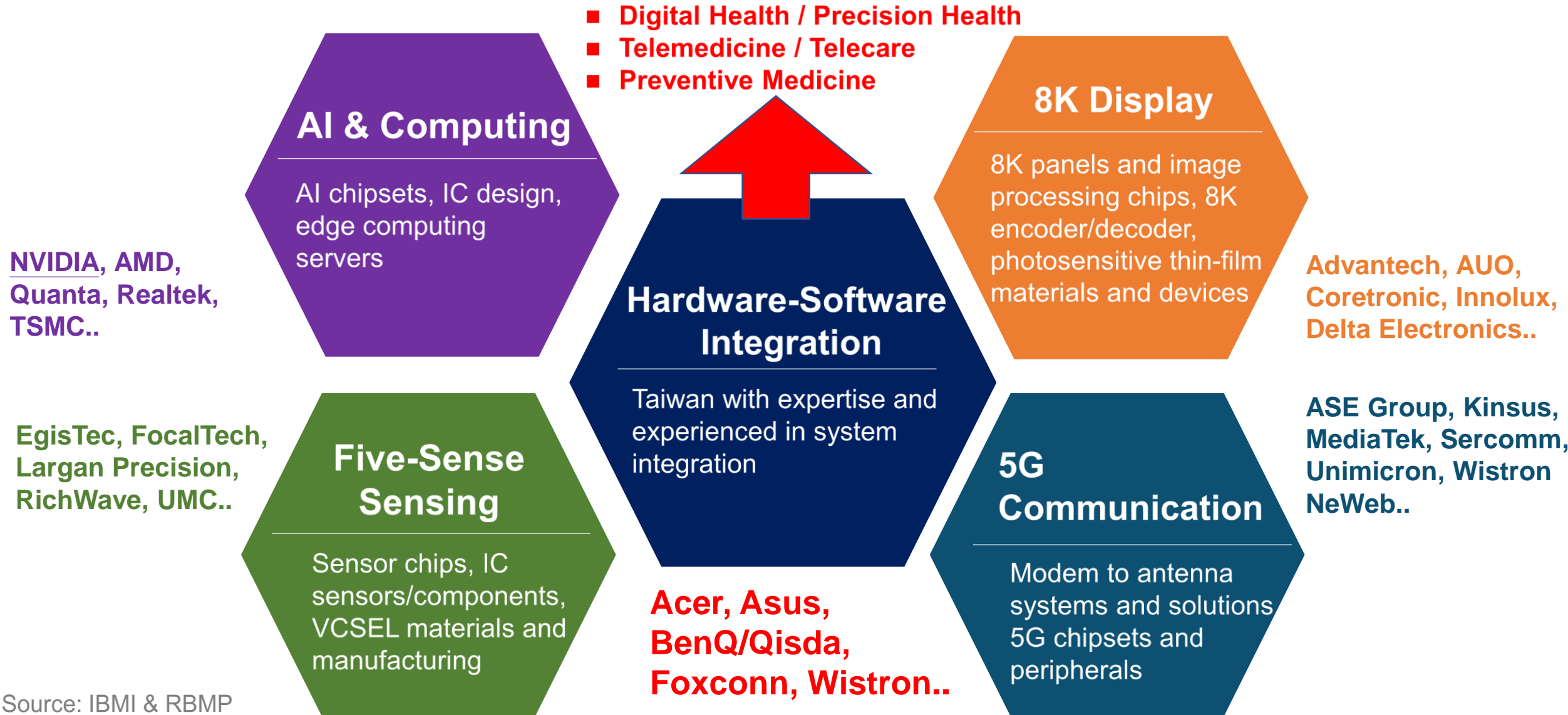


Image source: Fujifilm

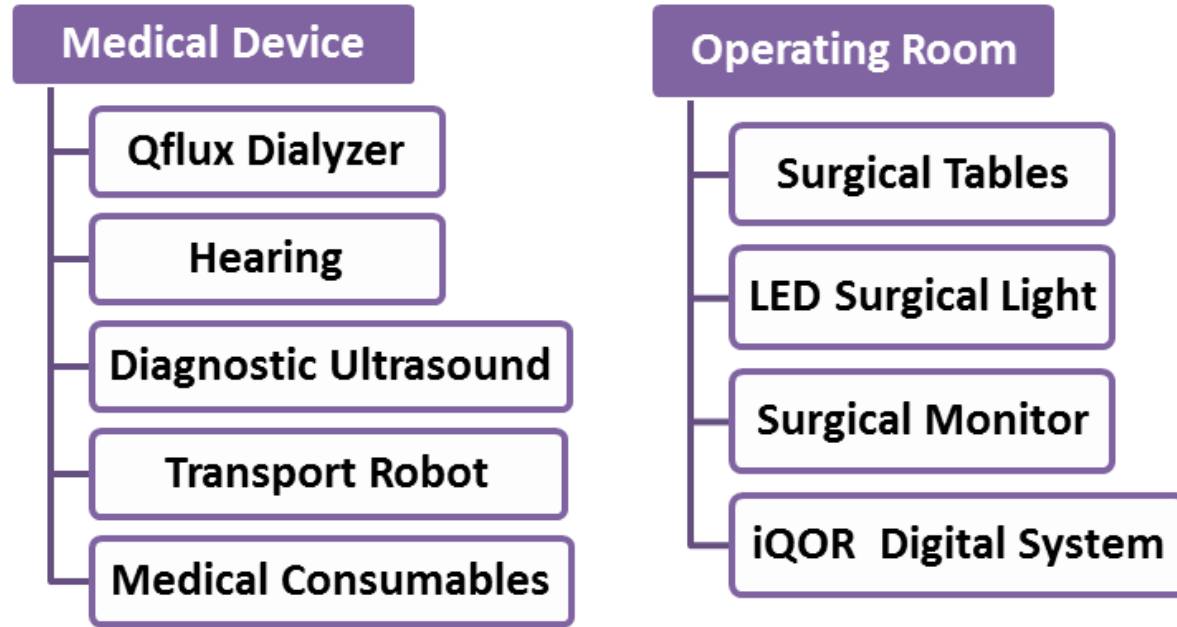
Taiwan Industry Overview

Market Players and Focus Areas



Source: IBMI & RBMP

Featured Products



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

After seeing all these successful solutions...

Taiwan hospitals are expanding their productivity to be the solution providers.



彰化基督教醫院
CHANGHUA CHRISTIAN HOSPITAL



員林基督教醫院
Yuanlin Christian Hospital



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



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

⋮



衛生福利部 113年度 新南向醫衛資源整合平臺計畫後續擴充

 財團法人
生技醫療科技政策研究中心
Research Center for Biotechnology and Medicine Policy

 社團法人
國家生技醫療產業策進會
Institute for Biotechnology and Medicine Industry

計畫主持人: 錢宗良執行長

協同主持人: 沈金輝處長

2024.03.25



《主責新南向政策醫衛產業供應鏈工作小組》 醫衛產業合作搭橋



台灣利基醫衛產業鏈

數位醫療

醫材設備

細胞治療

精準檢測

企業

產品

- ✓ 遠距照護系統
- ✓ IoT設備/維修
- ✓ 穿戴式裝置
- ✓ 健康數據監測分析與管理系統

- ✓ 血液透析器
- ✓ 微型電腦斷層
- ✓ X光/超音波
- ✓ 生理監測設備
- ✓ 膠囊內視鏡

- ✓ CTC檢測系統
- ✓ 細胞療法
- ✓ 基因定序及晶片
- ✓ 蛋白質與基因檢測

- ✓ AI晶片
- ✓ 有機半導體元件
- ✓ 影像顯示元件
- ✓ 體徵訊號量測感應器

新加坡：非常積極推動生技產業國際鏈結，已成功扮演亞太地區領頭羊的角色。針對國際華人健康市場之拓展，臺灣是可以嘗試與新加坡合作，創造雙贏的機會。

The top-ranked countries in **Regulatory quality** are [Singapore](#), [Australia](#), [Canada](#), [Finland](#), [Hong Kong](#), [New Zealand](#), and the [United Kingdom](#). Source data from *Scientific American Worldview* (<http://www.saworldview.com>)



2019年5月23日新加坡
Medtech Connect 論壇



SGInnovate interview: <https://youtu.be/3ktQSyfe7n0>

精準健康產業跨領域人才培育計畫

基礎 → 進階 → 轉譯 → 創新創業 → 就業 → 跨領域就業&創業



橋接學用落差



學術界

產業界

創新研發
核心技術
跨域能力

數位應用
國際行銷
創新創業

學校

園區

法人

地方政府

精準健康產業跨領域人才培育計畫

具跨領域學用專精之人才
與人力投入精準健康產業

透過符合產業需求跨領域核心課程、產業見習與實習、或創新創業團隊之養成，培訓學員國際競爭力

1. 產產學跨域
2. 國際鏈結

大專校院



精準健康產業

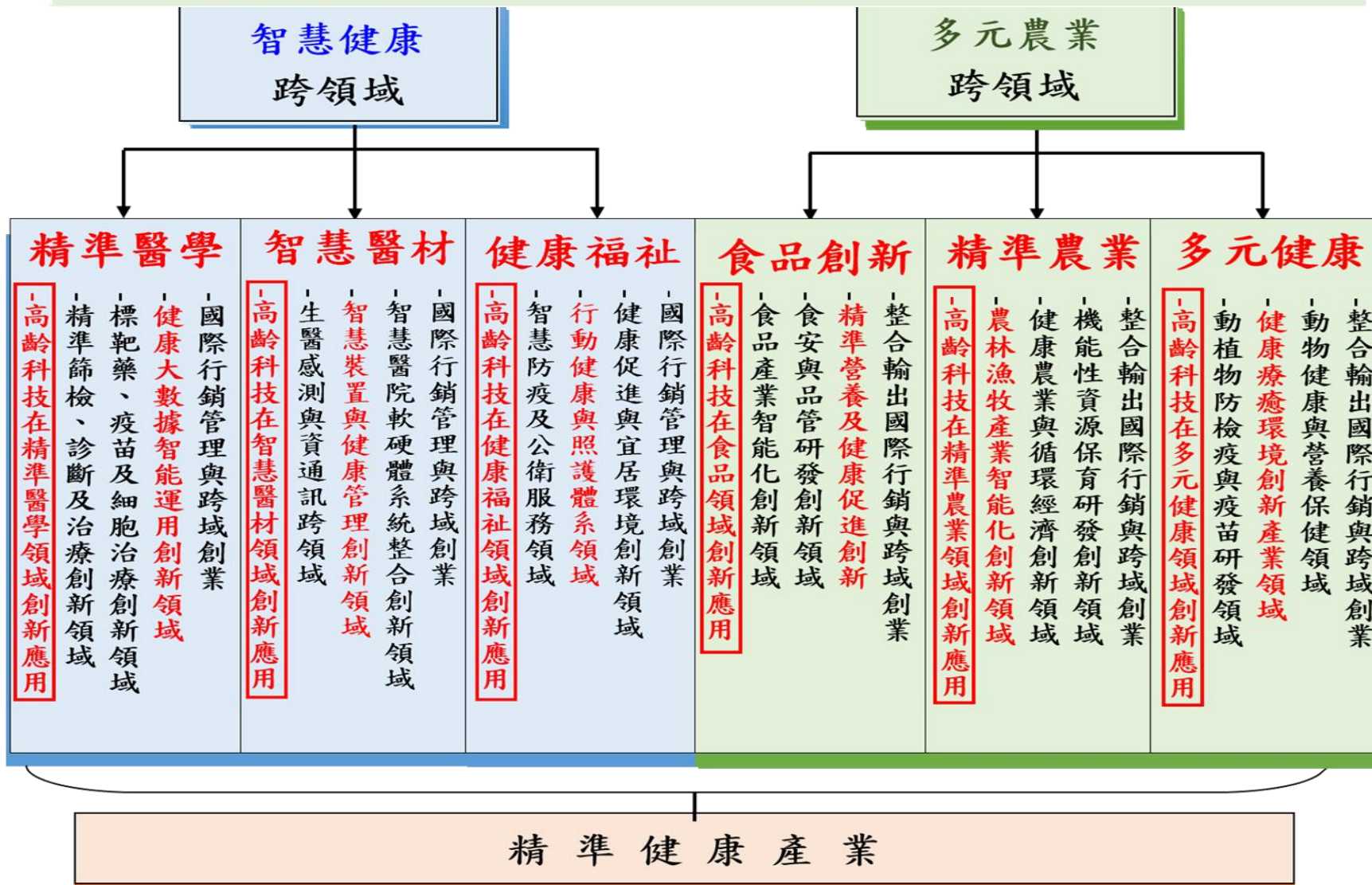


精準健康產業跨領域人才培育計畫

Training Program for Interdisciplinary Talents of Precision Health



計畫網站



教育部高齡科技產業跨領域人才培育計畫

Training Program for Interdisciplinary Talents of Gerontechnology

Partner University

臺北醫學大學
Taipei Medical University

長庚大學
Chang Gung University

國立宜蘭大學
National Ilan University

國立中興大學
National Chung Hsing University

國立中興大學
National Chung Hsing University

中山醫學大學
Chung Shan Medical University

Promotion Center

國立臺灣大學 (醫)
National Taiwan University

國立臺灣大學 (農)
National Taiwan University

國立臺灣海洋大學
National Taiwan Ocean University

國立中興大學
National Chung Hsing University

國立成功大學
National Cheng Kung University

高雄醫學大學
Kaohsiung Medical University



08.02 (Fri)



08.04 (Sun)

TWTC Hall 1



高齡健康產業博覽會

Healthy Ageing Tech Show

完整串聯高齡健康生態圈！

推進高齡健康生活、智慧生活、快樂生活！

主辦單位：生策會、生策中心、工商協進會、產業發展署、數位產業署、國家衛生研究院

To Establish Taiwan Ecosystem for Elderly Health

To Integrate Smart Services, Healthcare, and Happy Living for Seniors!



活動網址

完整串聯高齡健康生態圈！推進高齡智慧服務、健康照護、快樂生活！



Healthcare[®]

EXPO · TAIWAN 2024.12.05-12.08



2024 活動網址

◆ Tech x Medicine: Expo Highlights in Medtech, Biotech and Healthtech

The Expo stands out among exhibitions of its type, fostering accelerated collaborations between the Medtech, Biotech, and Healthtech sectors. It provides a platform for showcasing cutting-edge technologies and solutions, sparking innovation, and fostering partnerships in healthcare.

Medtech



The Expo features upstream-to-downstream supply chains, showcasing innovative technologies, products, and services for therapeutics and patient care.

- Smart Hospital Solutions
- Medical Devices & Equipment
- Digital Health Technologies

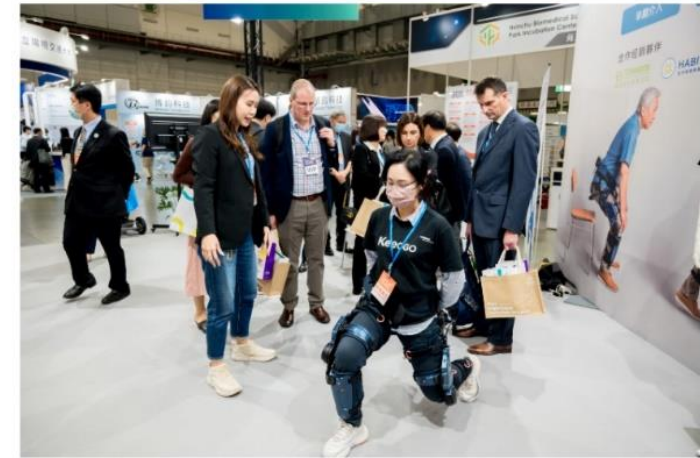
Biotech



The Expo showcases supply chains from upstream to downstream, emphasizing diagnostics, labs, and services for screening, prevention, and treatment.

- Diagnostics, Laboratory
- Equipment & Services
- Biopharmaceutical Products & Services
- Regenerative Medicine Products & Services

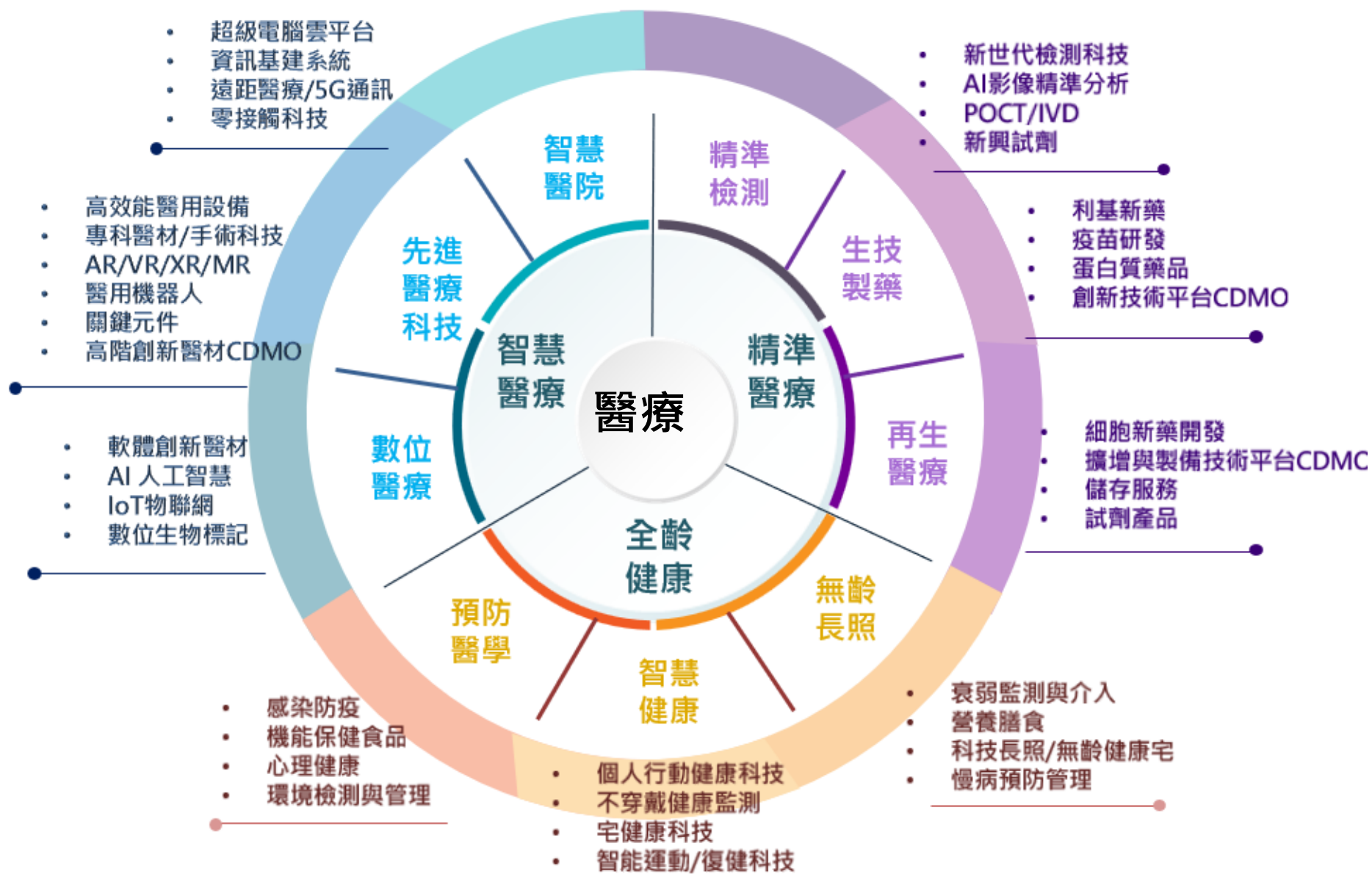
Healthtech



The Expo presents consumer health products for people in various health states, aiding in immune health, managing risks, and promoting a healthy lifestyle.

- Preventive Medicine
- Consumer Health
- Long-term Care & Assistive Technology

聚焦三大產業鏈：智慧醫療、精準醫療、全齡健康



Branding Taiwan



2024-07-19



Thank you for your attention