



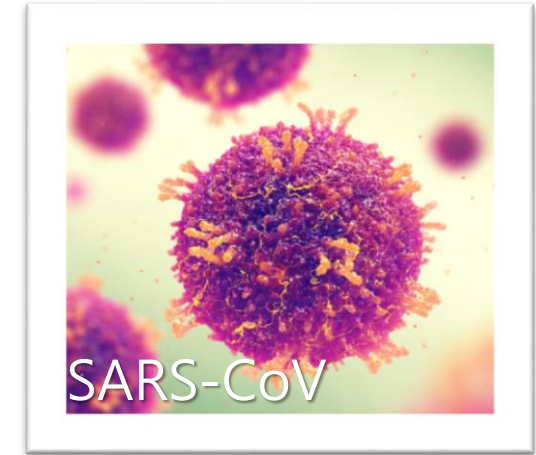
Looking Beyond Covid-19: The Healthcare Ecosystem in Taiwan

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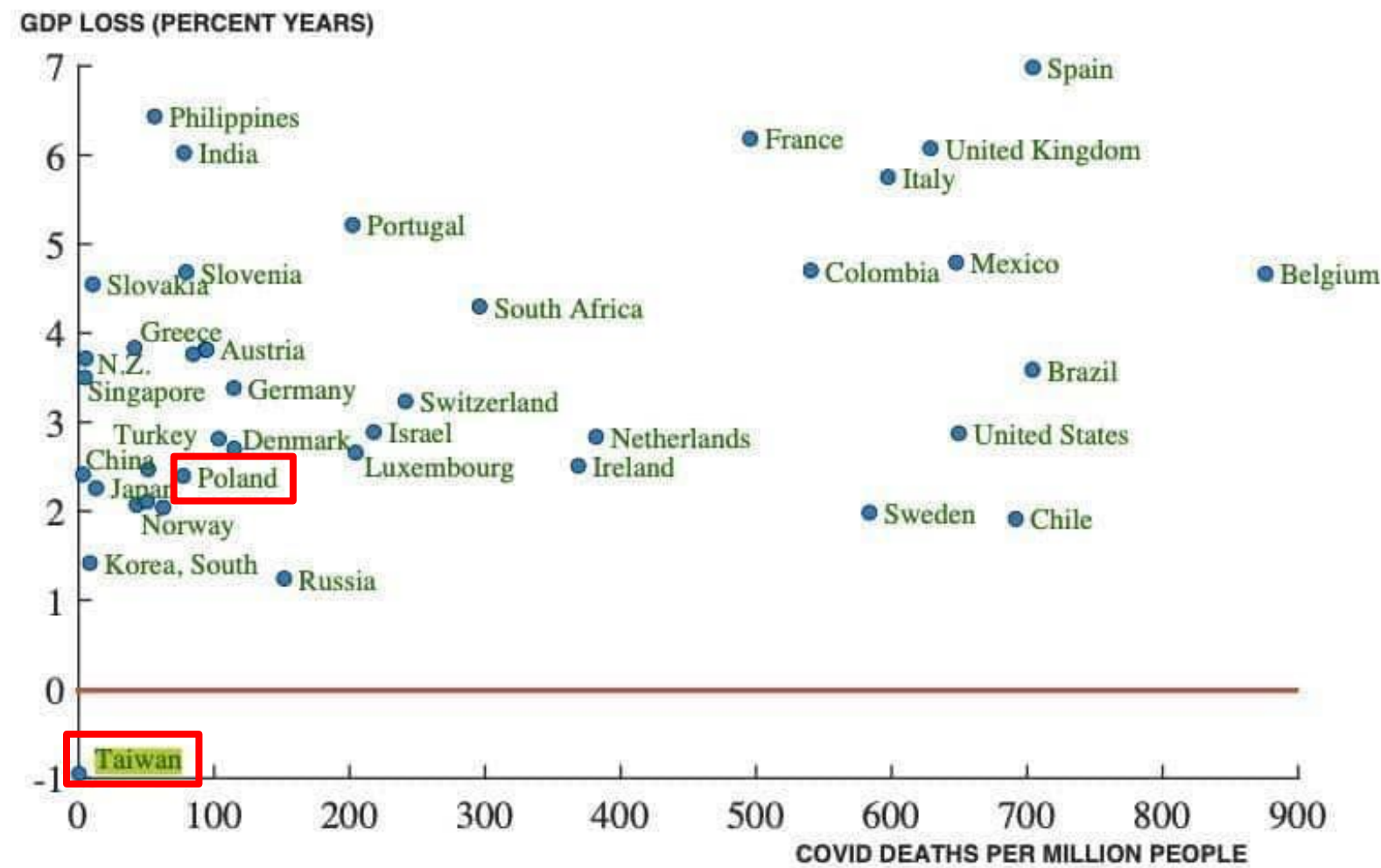
Pandemics Overview

- 2002 – 2003 **SARS** (severe acute respiratory syndrome)
8,096 cases, 774 deaths
In Taiwan, 346 cases, 73 deaths
- 2009 – 2010 **H1N1 influenza**
1,311,522 cases, 14,142 deaths
- 2012(MEA) **MERS**/ 2015 (Korea)
2,494 cases, 858 deaths
- 2014 – 2016 **Ebola** outbreak in W. Africa
28,610 cases, 11,308 deaths
- 2019/12~ **Covid-19**
50,738,093 cases, 1,262,132 deaths (9 Nov. 2020)
In Taiwan, 577 cases, 7 deaths (9 Nov. 2020)



Macroeconomic Outcomes and COVID-19: A Progress Report (Oct. 2020)

Figure 5: International Covid Deaths and Lost GDP



Note: “GDP Loss” is the *cumulative* loss in GDP since the start of 2020 and is annualized. For example, a value of 6 means that the loss since the start of 2020 is as if the economy lost six percent of its annual GDP.

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Global Development

Macroeconomic Outcomes and COVID-19: A Progress Report

Jesús Fernández-Villaverde

Charles I. Jones

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John A. and Cynthia Fry Gunn Building | kingcenter.stanford.edu

Export of Healthcare Services

With Taiwan's excellence and expertise now known internationally

- Solutions such as diagnostics, infection control, clinical guidelines, smart hospitals and data-driven medical care development, should be shared with intl' partners, in addition to Covid-19 how-to.
- Taiwan could provide with the appropriate solutions for Healthcare sectors of Poland.

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

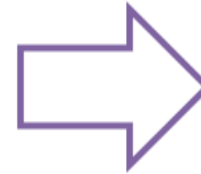
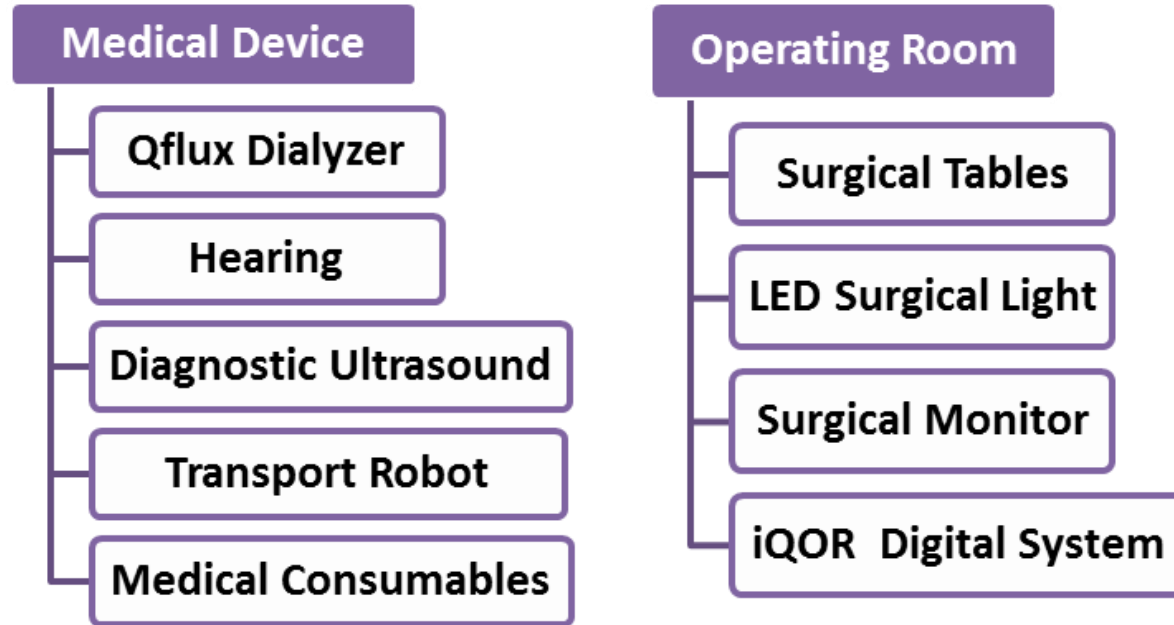
Hospital
Equipment

Taiwan's ICT Sector in Healthcare

Precision Healthcare Industry

	Mobile health	Medical equipment	Smart hospital	Gene/cell therapy	Biomedicine	
Companies	<div><div>acerCOMPAL</div><div>FOXCONN <small>Quanta Computer</small></div><div>TuLhtc</div><div>ASUSCoretronic</div><div>LEADTEKMITAC</div></div>	<div><div>BenqQisda <small>K LASER TECHNOLOGY INC</small></div><div>LRGNLITEON</div><div>wistro5xlix</div><div>DELTA RITEK</div></div>	<div><div>wistron <small>Quanta Computer</small></div><div>MITAC</div><div>BenqQisdahtc</div><div>ADVANTECH <small>英 業 達</small></div><div>Hi GROUP <small>強電集團</small></div><div>英 業 達 inventec</div><div>a value <small>Technology Inc.</small></div></div>	<div><div>FOXCONN</div><div>acer <small>MetaTech</small></div><div>COMPA <small>英 業 達</small></div><div>inventec</div><div>wistron</div></div>	<div><div>UMC</div><div>Powerchip <small>力晶科技</small></div><div>MEDIA TEK</div><div>REALTEK</div><div>TuL LEADTEK</div></div>	
Product pipelines	<div><div>■ Tele-healthcare</div><div>■ IoT solutions</div><div>■ Wearables</div><div>■ Health management</div></div>	<div><div>■ X ray / ultrasound</div><div>■ Micro CT</div><div>■ Surgical / service robots</div><div>■ Capsule endoscopy</div><div>■ Hemodialyzer</div><div>■ Molecular pathology</div><div>■ Vital sign monitor</div></div>	<div><div>■ Smart ward/operating room</div><div>■ Surgical VR</div><div>■ AI solution</div><div>■ HMS</div><div>■ EMR / EHR</div><div>■ Medical display</div></div>	<div><div>■ DNA sequencer</div><div>■ DNA microarray</div><div>■ Protein & genetic testing</div><div>■ CTC system</div><div>■ Cellular therapy</div></div>	<div><div>■ AI chip</div><div>■ Biochip for gene sequencing</div><div>■ RF & Wireless chip</div><div>■ Biosensor</div><div>■ Display component</div><div>■ Organic semiconductor</div></div>	
Areas of application	<div><div>IoT</div></div>	<div><div>5G</div></div>	<div><div>AI</div></div>	<div><div>VRAR</div></div>	<div><div>CLOUD COMPUTING</div></div>	<div><div>BLOCKCHAIN</div></div>

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

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



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

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Themes

Epidemic Prevention

- Telemedicine
- Robotics
- Rapid test
- Infection control

AI in Healthcare

- Diagnostics
- Precision medicine
- Big data
- Cloud-based solution

Precision Health

- Mobile Health
- Smart home
- Health promotion



Welcome to TAIWAN

Thank you!