



Bringing Big Pharmas to Taiwan

Leveraging Taiwan's strength into global competitiveness

Michel Chu

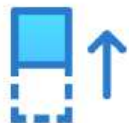
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Objectives of the 台灣精準健康 Initiative

典範轉移



- 開發生醫大數據之資料治理系統以及資安管理技術
- 落實AI醫療應用與增值服務
- 培育生物資訊跨領域研發人才

亞洲第1



- 創建亞洲第1「精準健康大數據系統」
- * 精準健康產業化
- * 促成國際大廠/跨國藥廠來臺合作

全球標竿



- 推動臺灣成為全球精準健康大數據應用之標竿國家
- 推動臺灣成為智慧健康解決方案之供應國



產生~~1~~家獨角獸或促成**3**家國際企業/跨國藥廠來臺設立研發中心或營運總部



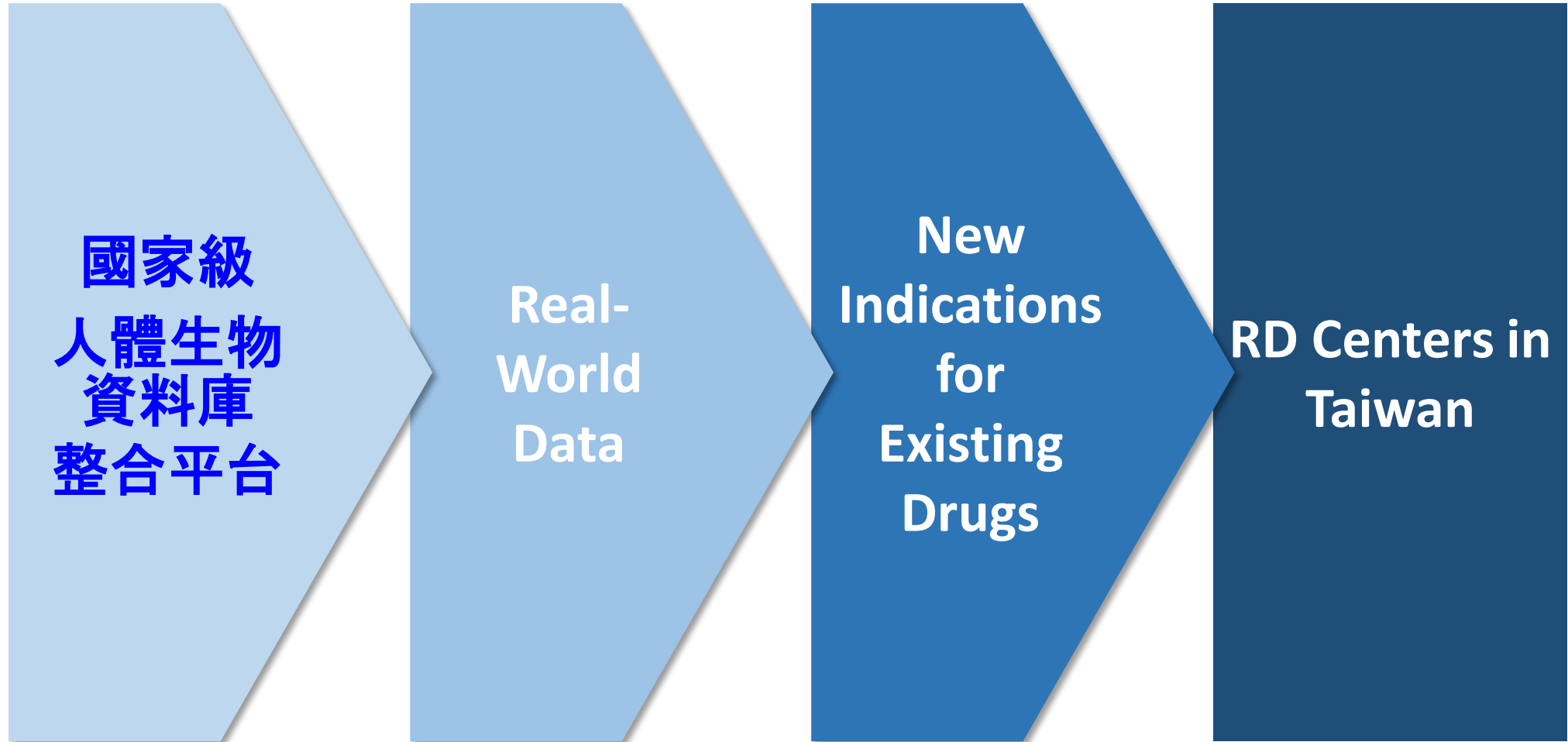
促成**5**項次世代定序 (NGS) 產品或伴隨式診斷產品或分子檢測 (LDT) 產品上市



運用生物資訊 (大數據平台系統) 衍生**10**家新創事業

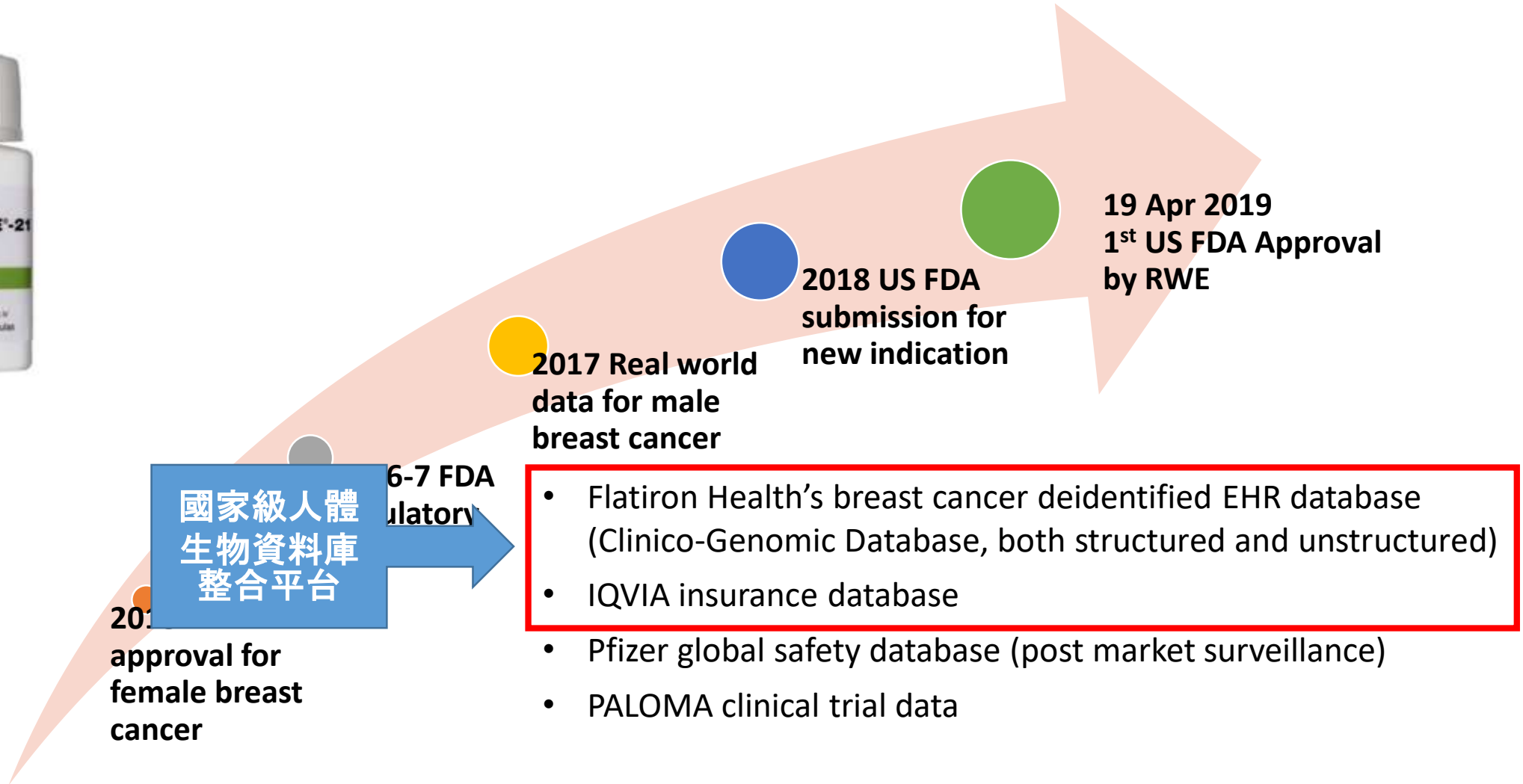
Attracting Big Pharmas to Taiwan

Creating incentives



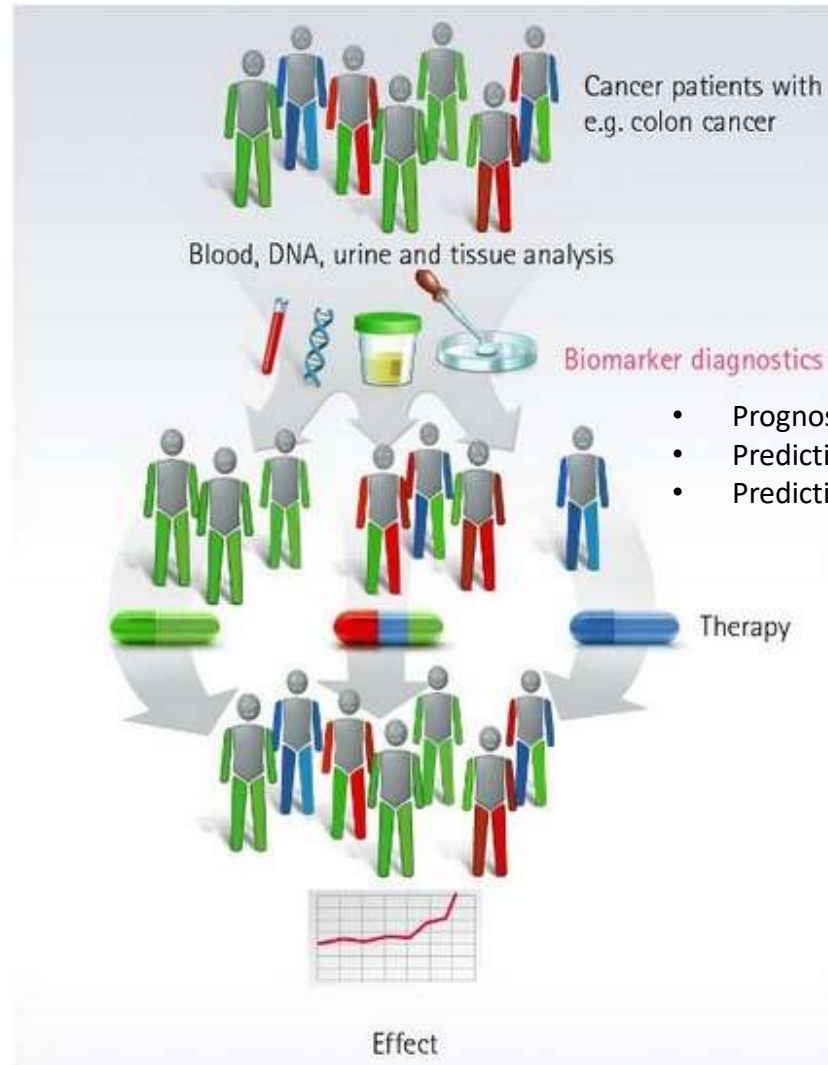
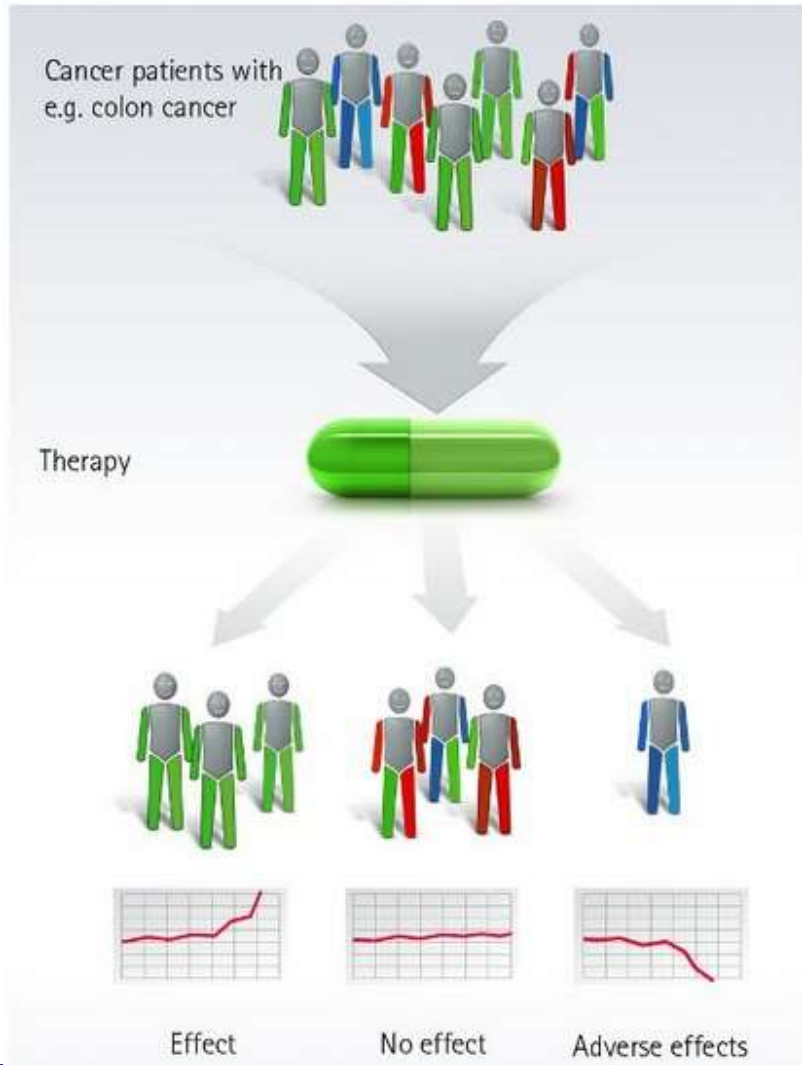
Ibrance from Pfizer

A case study of how real-world evidence was used to support new indication



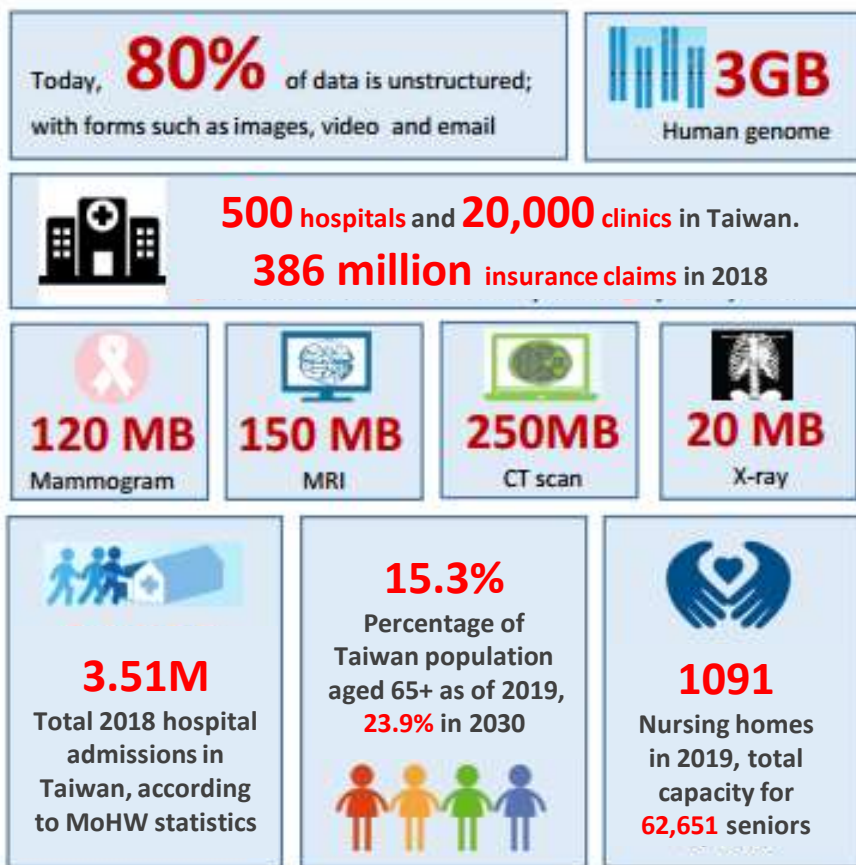
Precision Medicine: tailored treatments

From one size fits all to personalized medication



Integrating Data from all Fronts

KEY STATISTICS



- Patients can generate different types of data from a **plethora of sources** in varied healthcare settings
- massive volume of information are generated with the **digitization and adoption** of EMR & Health IT technologies

Health Factors

Exogeneous Sources

60%

Genomics Sources

30%

Clinical Sources

10%

Data Generated

1100 Terabytes

Per life time

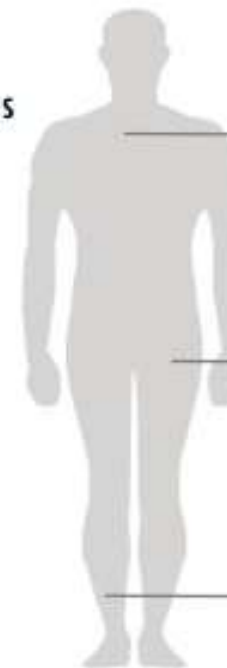
Volume, Velocity, Variety, Veracity

6 Terabytes

Per life time

~ 1 Terabytes

Per life time



Patient-Facing

AI Chatbots



Wearables & Devices



Personalized Genetics



Mental Health



Women's Health



Skin



Telehealth

Telemedicine



Lifestyle Management



Disease Management



AI in Healthcare

Research

Drug Discovery



Information & Clinical Trials



Genetic Research



Doctor-Facing

Medical Records



Data Analytics



Medical Imaging



Hospital

