



Techno Partnership



Healthcare  
Technology  
Solutions

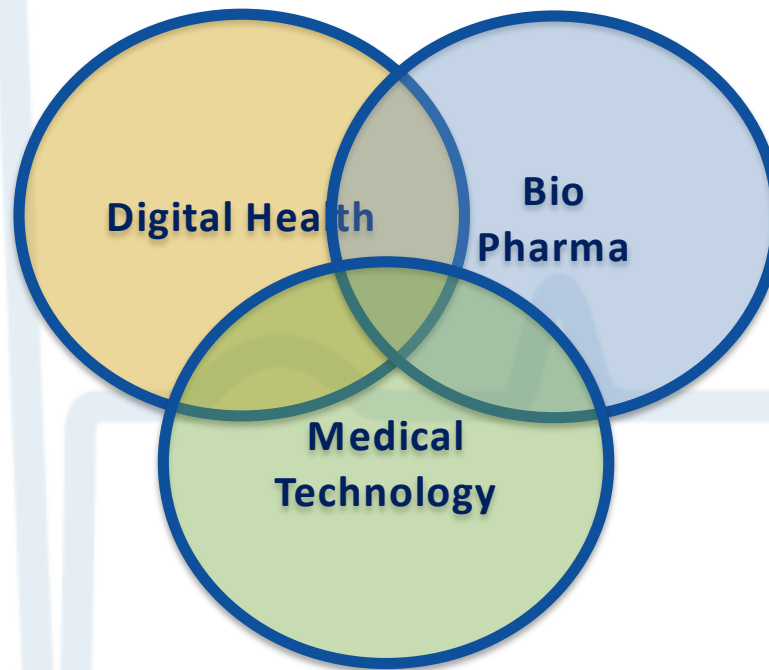
# The 21st Century Technology Revolution in Health and Life Sciences

4<sup>th</sup> July 2018

[www.healthtechno.co.uk](http://www.healthtechno.co.uk)  
[info@healthtechno.co.uk](mailto:info@healthtechno.co.uk)



# Healthcare Technology & Life Sciences Segments



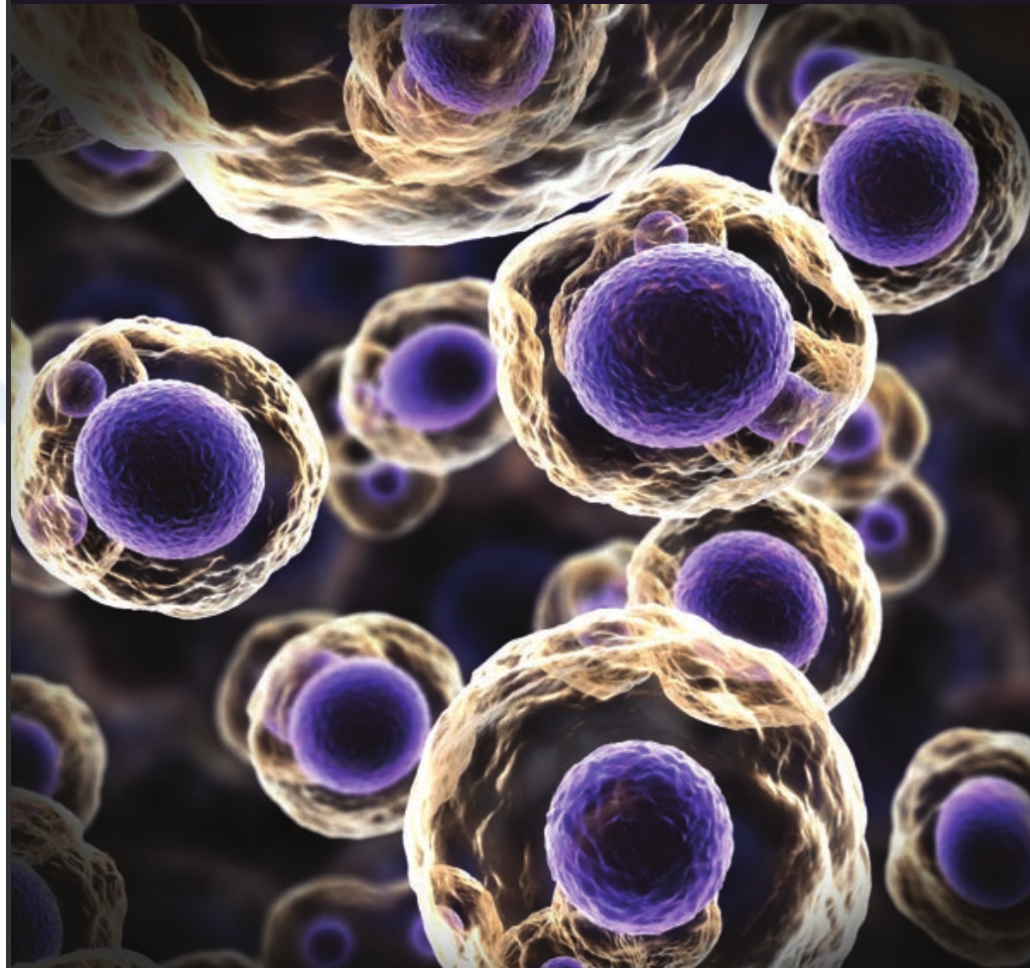
**Published in August 2017**

## **Covering 7 Key Themes and recommendations**

- 1. Health Advanced Research Programme (HARP)**
- 2. Reinforcing the UK science offer**
- 3. Growth and infrastructure**
- 4. NHS collaboration**
- 5. Data**
- 6. Skills**
- 7. Regulation**

## **Life Sciences Industrial Strategy**

– A report to the Government from the life sciences sector





## Solutions & systems

Artificial  
Intelligence

VR/AR

Genomics

IOT & Remote  
monitoring

Electronic  
observations

Electronic  
Health  
Records

Digital  
Assessment  
and Screening

Big Data  
Analytics &  
Business  
Intelligence

Laboratory  
and Radiology  
systems

Electronic  
document  
management

Operational  
efficiency

Health &  
wellbeing

## Services

Service design  
&  
transformation

Bespoke app  
dev

# UK's Offering in Digital Health



The NHS is unique because it has evolved to meet the needs of local patients, whilst making best use of its vast estate of national assets and resources. The digital systems and solutions which support the NHS must take into account variations in local needs, whilst being able to link up at a national level.



The UK fosters collaboration and innovation. Academics and clinicians from world-renowned institutions work with policy makers and dynamic private sector technology companies to develop solutions that meet the needs of patients and clinicians alike.



By using tried and tested solutions from the UK, you can meet the needs of patients, clinicians and payers throughout the patient pathway.



The UK has the most efficient health system out of eleven countries studied in 2014 Commonwealth Fund. The widespread and effective use of health information technology (HIT) in the UK plays a large role in the country's high score on the chronic care management indicators, as well as its performance on system aspects of preventive care delivery.\*

\* Mirror, Mirror on the Wall: How the Performance of the US Health Care System Compares Internationally, The Commonwealth Fund, 18 June 2014


# UK's National Systems

## National Systems

The UK has been developing some of the world's most sophisticated systems for more than 30 years. The NHS is underpinned by a national architecture, at the heart of which is the NHS Spine, which:

CONNECTS MORE THAN  
 28,000  
HEALTHCARE IT SYSTEMS IN  
**21,000**  
ORGANISATIONS

TYPICALLY HAS  
**250,000**   
USERS ACCESSING  
THE SERVICE AT  
ANY ONE TIME

**SIX BILLION  
MESSAGES**  
ARE HANDLED BY THE NHS  
**EVERY YEAR** 

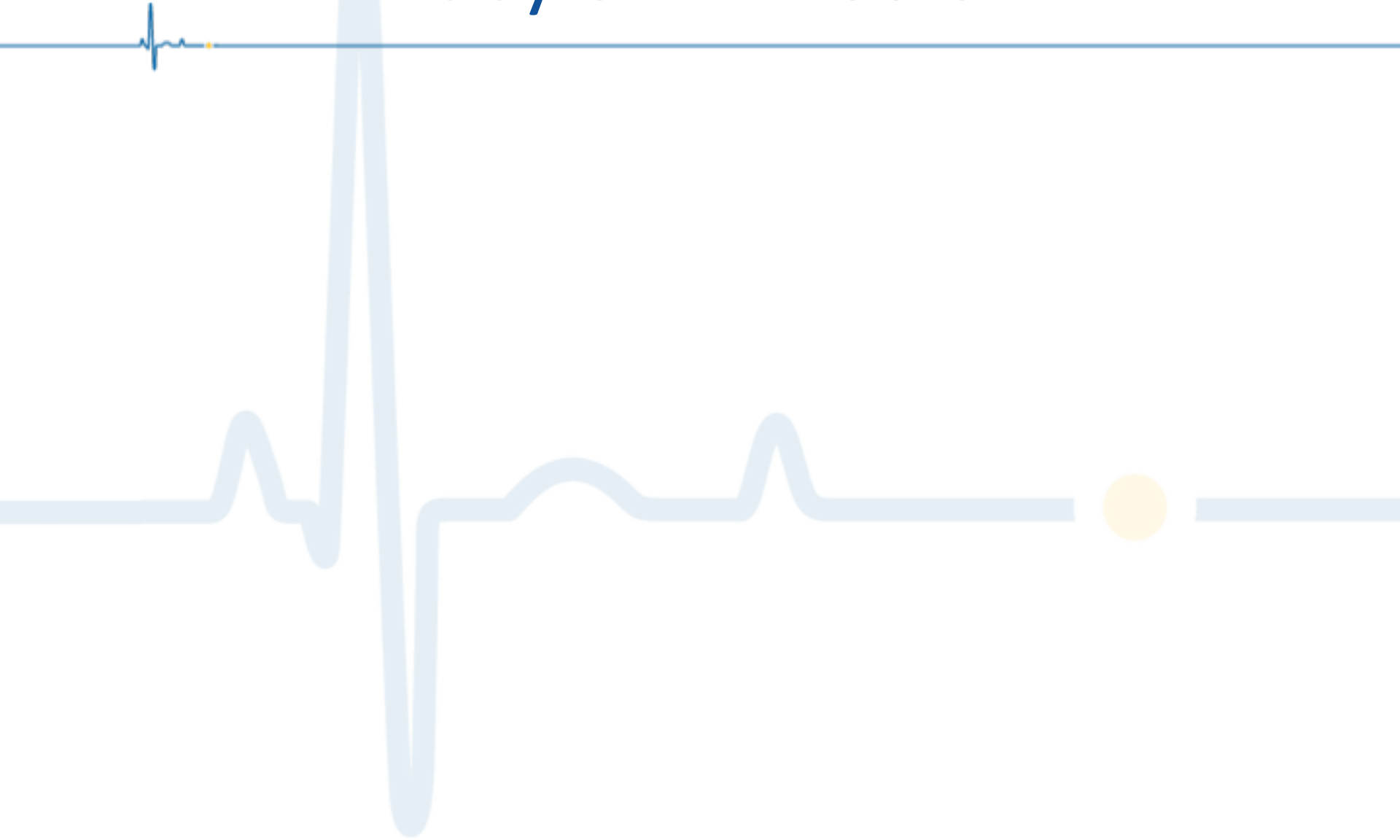
IN PEAK PERIODS, HANDLES  
**1,500**   
MESSAGES PER SECOND

HOLDS MORE THAN  
**500 MILLION**   
RECORDS AND DOCUMENTS

THE NHS HAS  
**1.1 MILLION**  
REGISTERED  
SMART CARD USERS 

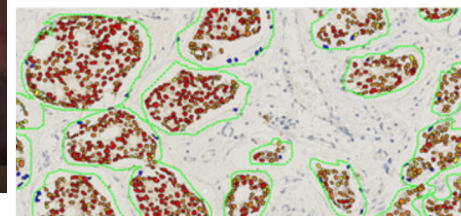
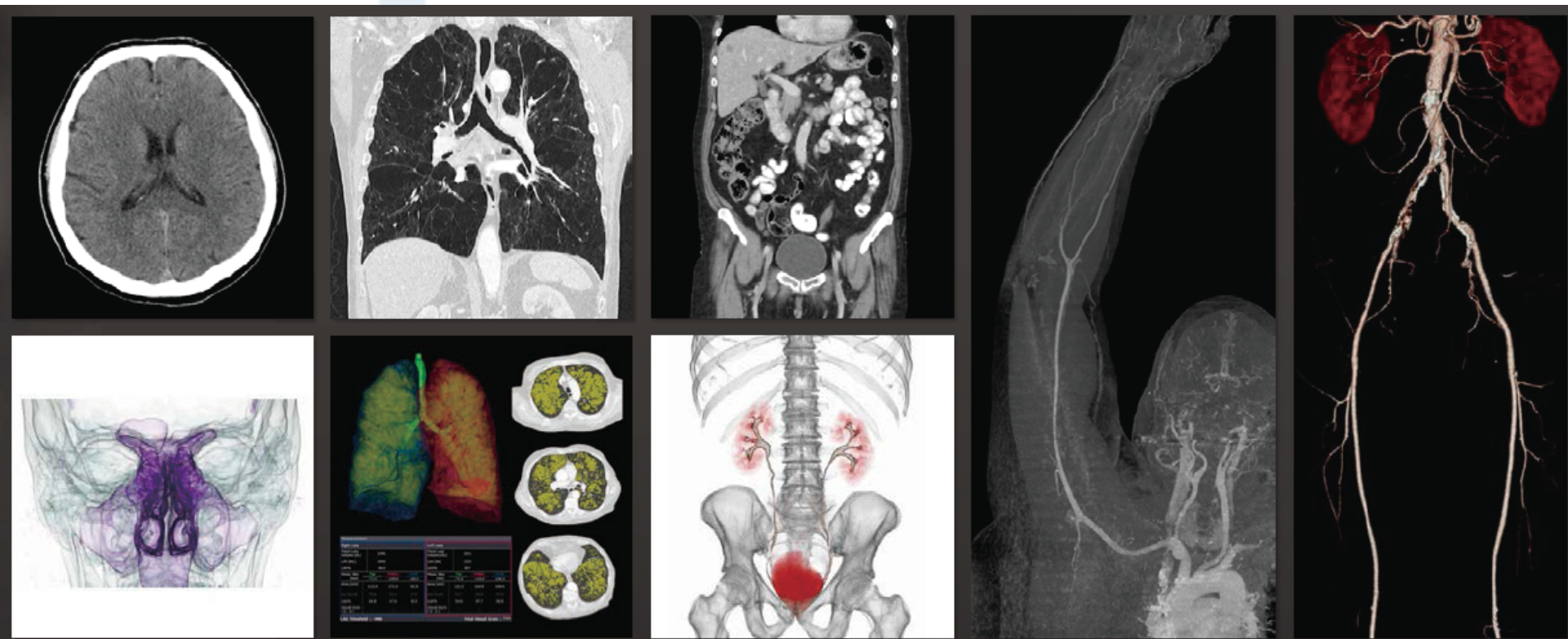
Source: NHS Digital & HealthcareUK

# Babylon AI Doctor

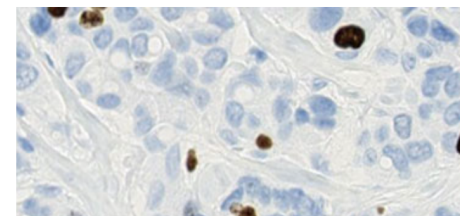




# Medical Imaging Revolution

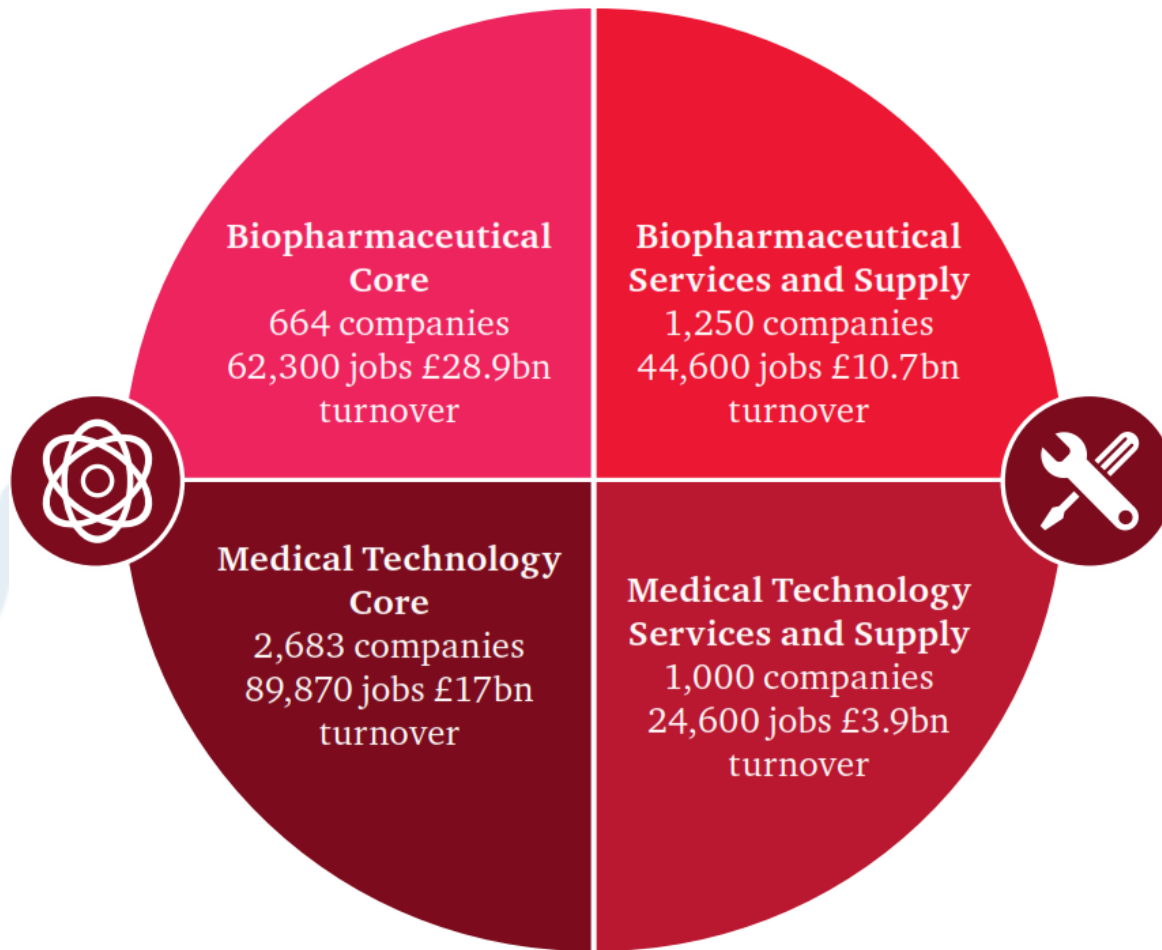


Diagnostics



Discovery

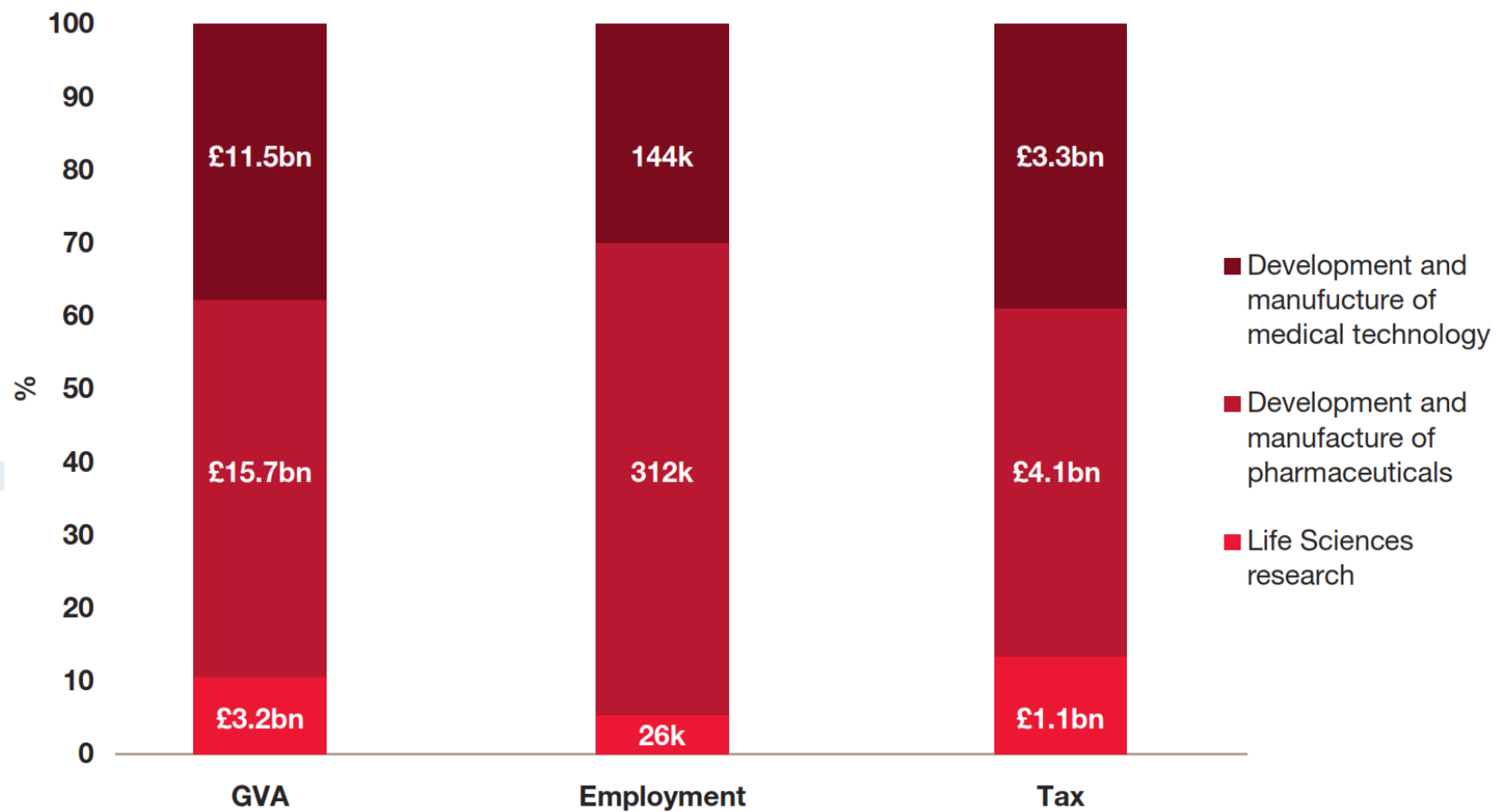
# Life Sciences in the UK



**Total turnover: £60.7bn    Total direct employment: 222,000**

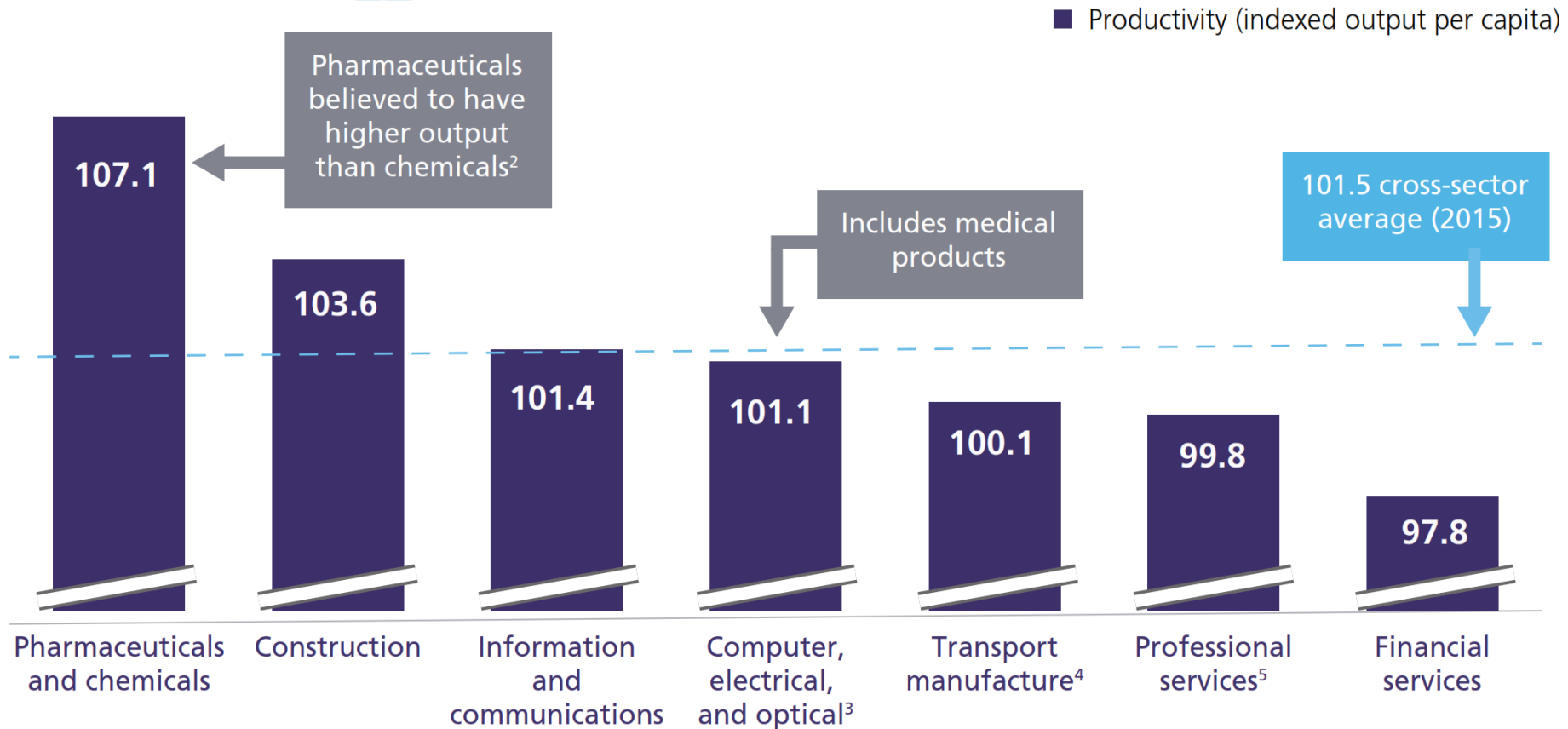
**Source:** Office for Life Sciences

# Share of Life Sciences GVA, Employment and TAX by Segment



Sources: PwC analysis, FAME, Companies House.

# UK Productivity by Sector



1 Index of 100 represents 2013 UK average (i.e., comparator is UK output per hour averaged across all industries in 2013)

2 The Economist intelligence Unit (2015)

3 Includes medical devices

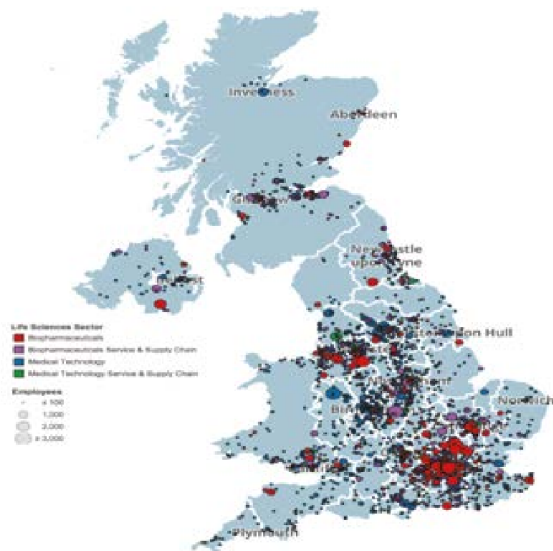
4 Includes automobiles and other transport equipment

5 Includes scientific R&D

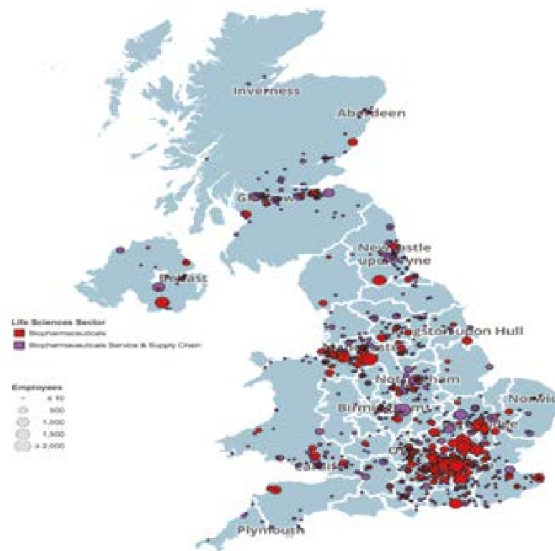
Source: ONS (2016)



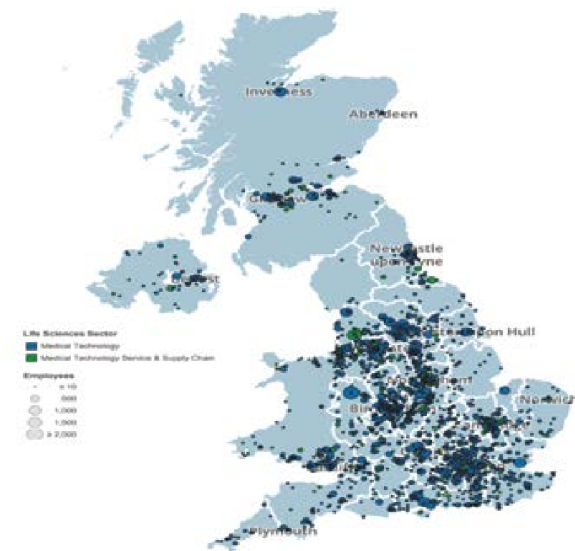
# UK Life Sciences Employment Map (2016)



All life sciences



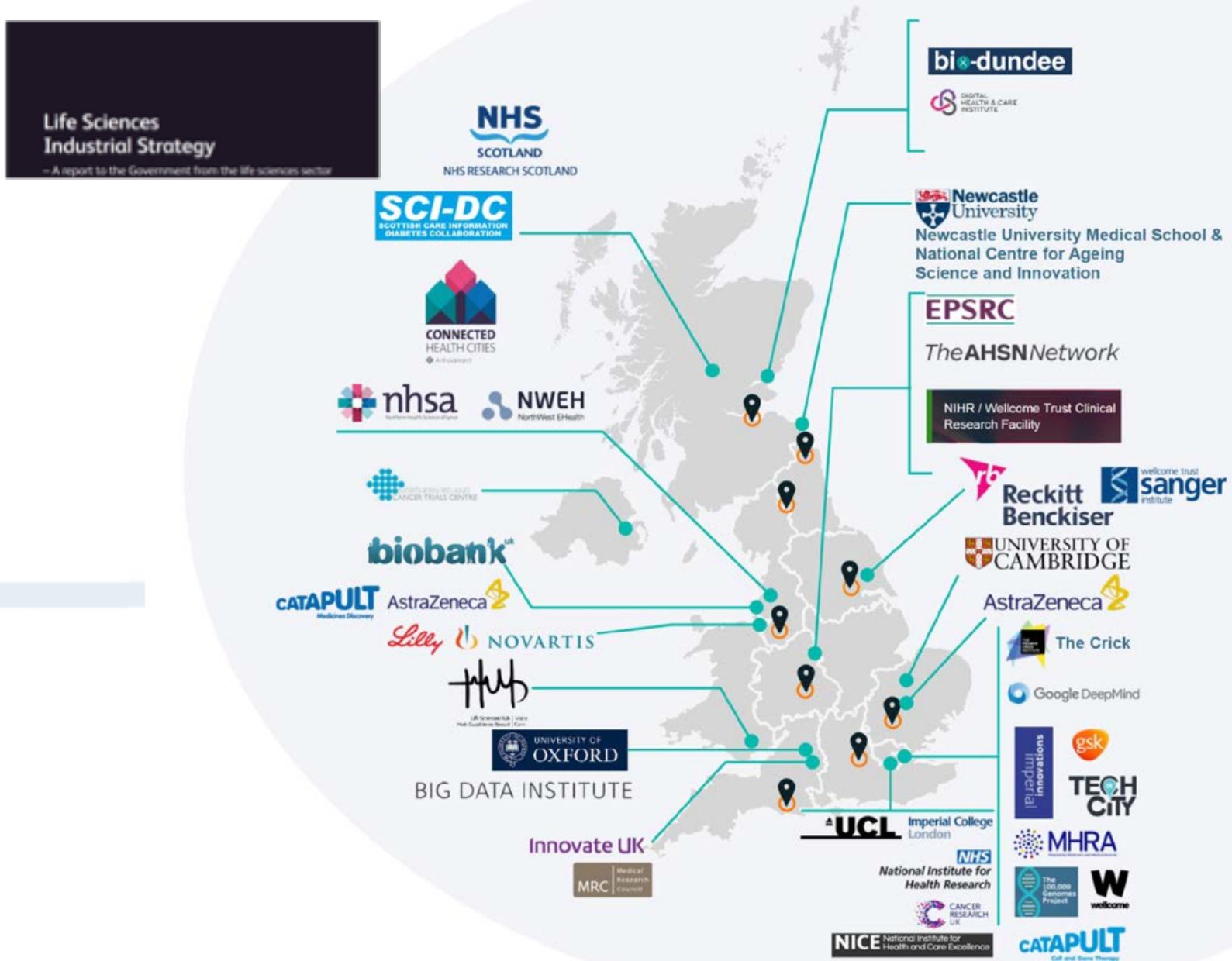
Biopharma



Medtech

Source: Strength and Opportunity 2016

# The UK Life Sciences Ecosystem – a snapshot

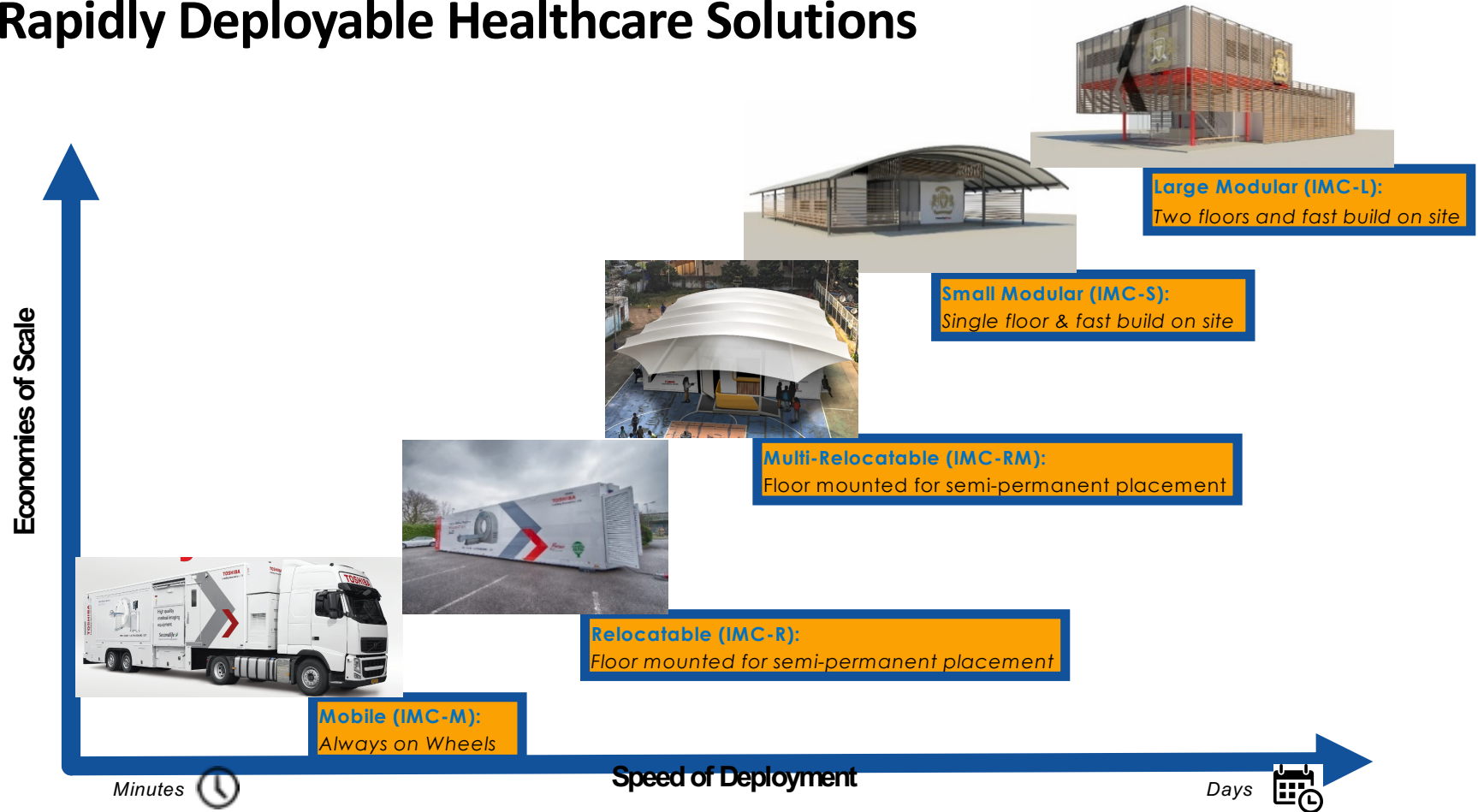


# Innovative Med Tech Example: THOR



# Instant Clinics

## Rapidly Deployable Healthcare Solutions



Rapidly-deployable ranging from mobile to relocatable and 'out of a box' Clinics



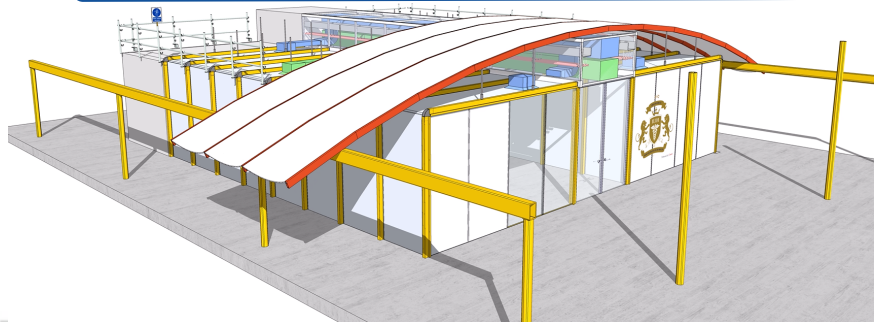
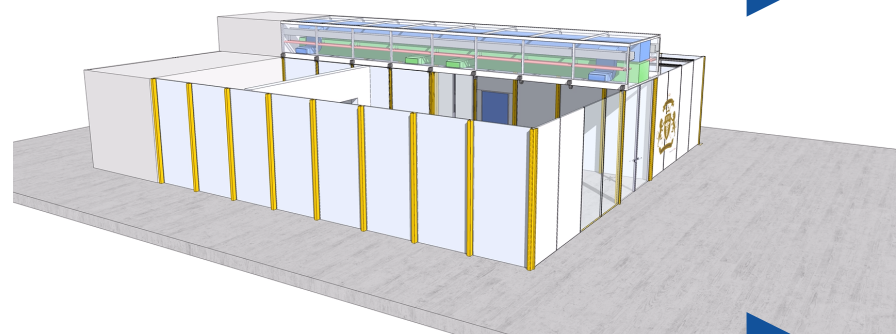
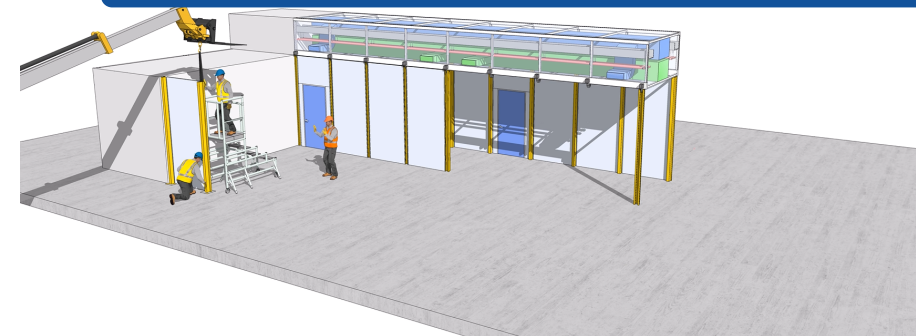
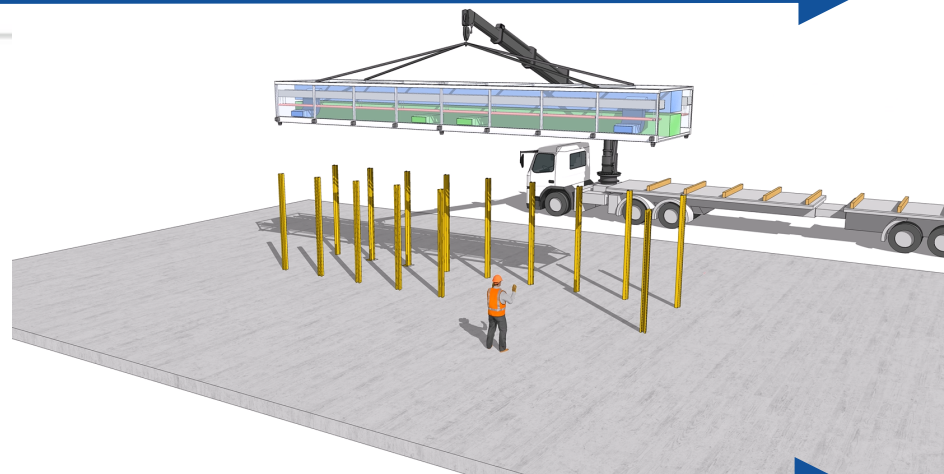
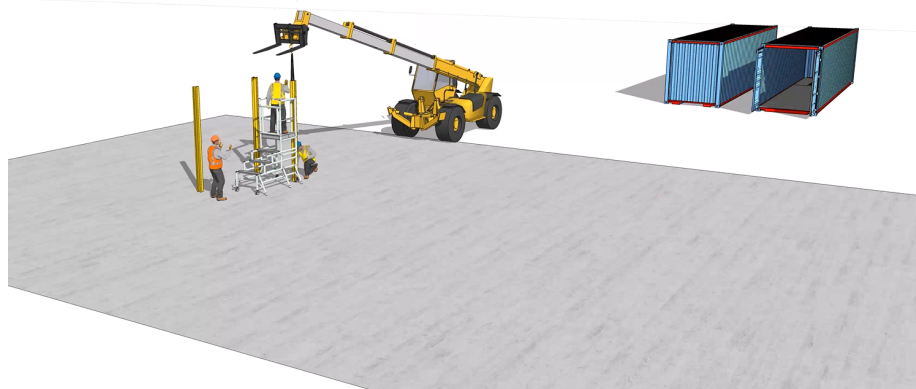
# Instant Clinic: Outreach Facilities

## Completely mobile diagnostics and Minor Ops units with instant AI diagnosis

- Imaging scanners
- Server and Satellite dish
- Artificial Intelligence receive server
- Instant Diagnosis
- Instant Treatment
- Instant Inoculation

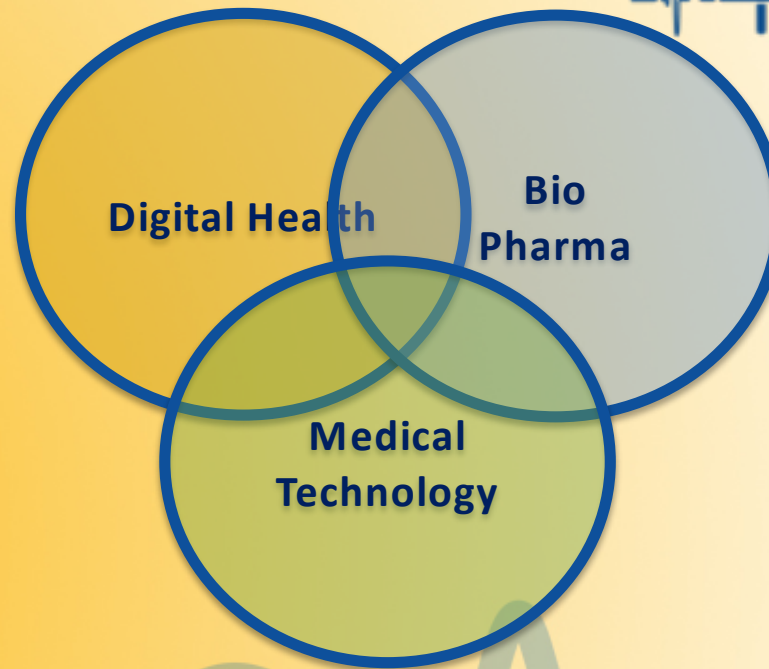


# Instant Clinic in a Box





Healthcare  
Technology  
Solutions



Thank You

Q&A