

# BUILDING IN FLEXIBILITY



# Flexibility

*noun:* 'the ability to change or be changed easily according to the situation.'

Cambridge Dictionary

# Flexibility in the Healthcare Context

Advances in medical technology, patient demand and healthcare policies are ever-changing.

Hospitals and healthcare providers are in the unenviable position of having to satisfy today's specific needs and accommodate future technologies, changing needs and/or standards of care.

# What is Flexible design?

- Does it allow for multiple uses? Is it versatile?
- Can it be changed or converted to a new use? Is it adaptable to new uses?
- Is it modifiable (to allow for minimal physical changes)?
- Is it scalable: can it be increased or reduced in size?

# MMC and DfMA should set the precedent for Healthcare facilities!

- There is a need to invest financially in Flexibility.
- Designing in flexibility helps organisations to be ‘change-ready’ even in these uncertain times!
- What are the emerging needs?
- How do both the organisation facilities and the buildings themselves adapt to changing clinical needs and climate change?

**BUILDING**  
**BETTER**  
**GREENER**  
**FASTER**

# JOHN RADCLIFFE HOSPITAL – CRITICAL CARE BUILDING

CARE THROUGH FLEXIBLE DESIGN

Oxford Critical Care Unit (OCC) is part of a **regional approach for managing critical care demand**.

Designed to alleviate future seasonal pressures and provide a **‘super surge centre’** in the event of future pandemic needs.





## Accelerated patient care using 'hybrid' construction approach

- **5450m<sup>2</sup>, 5-storey Critical Care Unit** comprising 48-beds (across 2 x 18 / 12-bed wards), 10 isolation rooms, non-clinical accommodation and dedicated plant room.
- Exceptional **stakeholder collaboration**.
- One of **England's tallest Intensive Care facilities** employing Modern Methods of Construction.
- Completed from initial design to handover in just **18 months**.



# BESPOKE DESIGN TO DELIVER THE MOST EFFICIENT USE OF SPACE

**All 148 pre-manufactured building modules** were completely bespoke in their design, therefore ensuring no compromise on patient and clinical experience, compliance or quality.

# Flexible design

Significant change in project scope from 4-storeys to 5-storeys was achieved through excellent stakeholder collaboration and allowed a challenge to turn into an opportunity.





Close collaboration with clinicians was paramount to ensuring the most efficient use of the limited available space (only 1040m<sup>2</sup> building footprint per floor).

# Flexible design

- Reducing the number of internal columns (long spans)
- Maximising height of modules to provide 2.7m internal ceiling heights
- Providing floors with low response factors in keeping with HTM 08-01: Acoustics
- Maximising external day-lighting provision





Floor 5 non-clinical accommodation, including offices and spacious staff areas. Dedicated education facility including teaching rooms, seminar space and changing rooms.



**“MTX HAS LED THE  
CONSTRUCTION SUPERBLY.”**

- Lyn Bennett, AICU Matron and Clinical Lead at John Radcliffe Hospital.



**“MTX ARE AN ABSOLUTELY FIRST RATE COMPANY. WELL DONE TO THEM. THEY ARE REDEFINING WHAT IS POSSIBLE IN TERMS OF THE SPEED, QUALITY AND COST EFFECTIVENESS OF NHS CONSTRUCTION PROJECTS.”**

- Jason Dorsett, CFO at Oxford University Hospitals NHS Foundation Trust.



# THANK YOU



# QUESTIONS

