

PTS



INTELLIGENT HOSPITAL CONSULTING: NEW HOSPITALS PROGRAMME (NHP)

Service Overview

PTS designs NHP-aligned smart/intelligent hospitals, demystifying Hospital 2.0 guidance to embed Intelligent Hospital Capabilities (IHCs) across RIBA stages, and aligning Trust clinical/operational/estates needs with architecture/MEP/digital. We're the conduit between Trust IM&T/digital and design teams, ensuring passive/active infrastructure, data/integration, cyber, operations and future-proofing are coordinated, enabling clean handover/novation to Main Contractors.

Service Features

- Independent digital/intelligent hospital assurance and scope definition
- Translation between clinical/operational outcomes and digital/technical requirements
- Smart Building Assessments in line with NHP
- Coordination between IM&T/digital teams, estates, clinical stakeholders and design team
- Integration planning across smart/IT/AV/security/BMS/data platforms
- Innovation workshops to explain latest smart/technology trends
- Design and Oversight from RIBA 1-7, including non-NHP developments
- Team-based approach; appropriate levels of resource for specific tasks
- Migration planning for of smart systems into existing cloud/hosting environment
- RIBA-aligned services for Capital Developments

Service Benefits

- Clearer decisions made earlier, reducing late change and retrofit risk
- Reduced ambiguity between Trust, design team and contractor responsibilities
- Improved alignment between digital intent, physical design and operations
- Greater confidence in NHP/Hospital 2.0 compliance and assurance
- Better cost control through early visibility of digital scope/dependencies
- Smoother handover and transition into construction and delivery
- Future-ready hospitals able to adapt to technology and service change
- Scalability for size/complexity of any programme/project
- Reduced delivery risk across complex multi supplier environments
- Improved long term value for money and whole life outcomes

The Digital Hospital

The NHS's Digital Transformation Strategy aims to revolutionise the relationship between patients, citizens, healthcare professionals, staff and partners through the better management of data, use of technology and innovation, and reliance on performant infrastructure.

The Built Environment is becoming increasingly impacted by this digital revolution. More and more physical assets are becoming connected and intelligent, with the advent of sensor technology, Internet of Things, Building Management Systems, space booking, and hybrid collaboration technology. Digital has the potential to fundamentally transform the hospital estate; the New Hospitals Programme, in particular, is a once in a generation opportunity to embed digital into the design of the hospital of the future.

There are, however, multiple challenges:

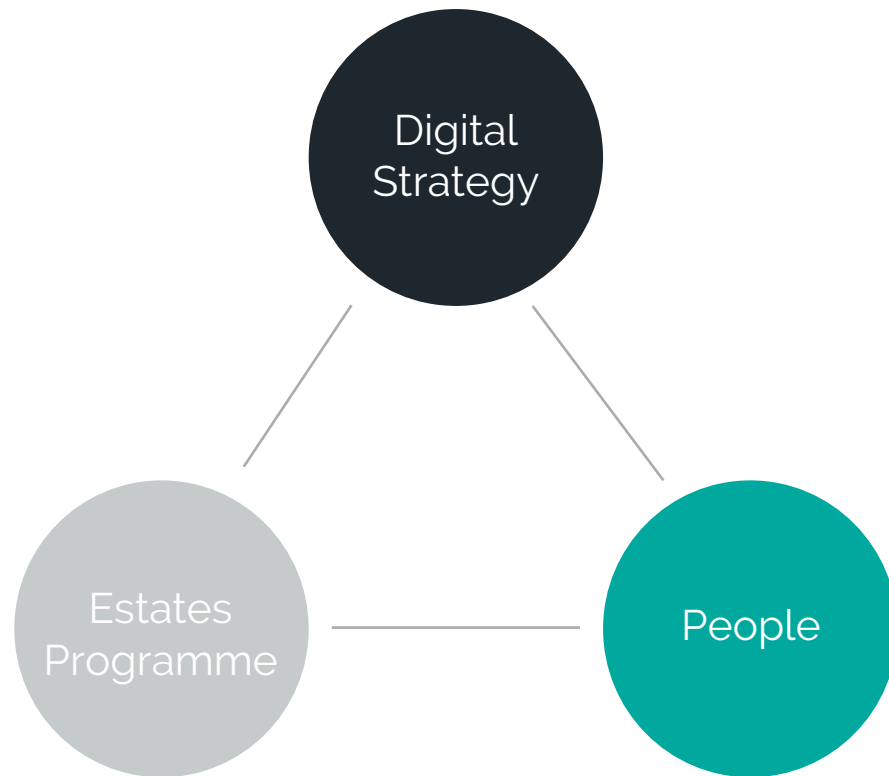
- Trusts struggle to understand the definition and value of digital in the estate
- There is no blueprint for taking a Trust's digital strategy and applying it to the Estates strategy or the design of a new building
- IT and Estates teams often work in siloes, with different objectives and ways of working

PTS is an independent consultancy that specialises in aligning an organisation's Digital & Estates Strategies. PTS is unique in its understanding and experience of working with both Estates and IT in Healthcare.

PTS's core expertise lies where the physical and the digital become blurred, reimagining the relationship between the technology, the estate and its people to deliver better patient, staff and visitor experiences.



PTS: People, Technology, Space



Digital Strategy

The Trust's Digital, Data and Technology aspirations, and how they will improve patient experiences, efficiency, cost and sustainability

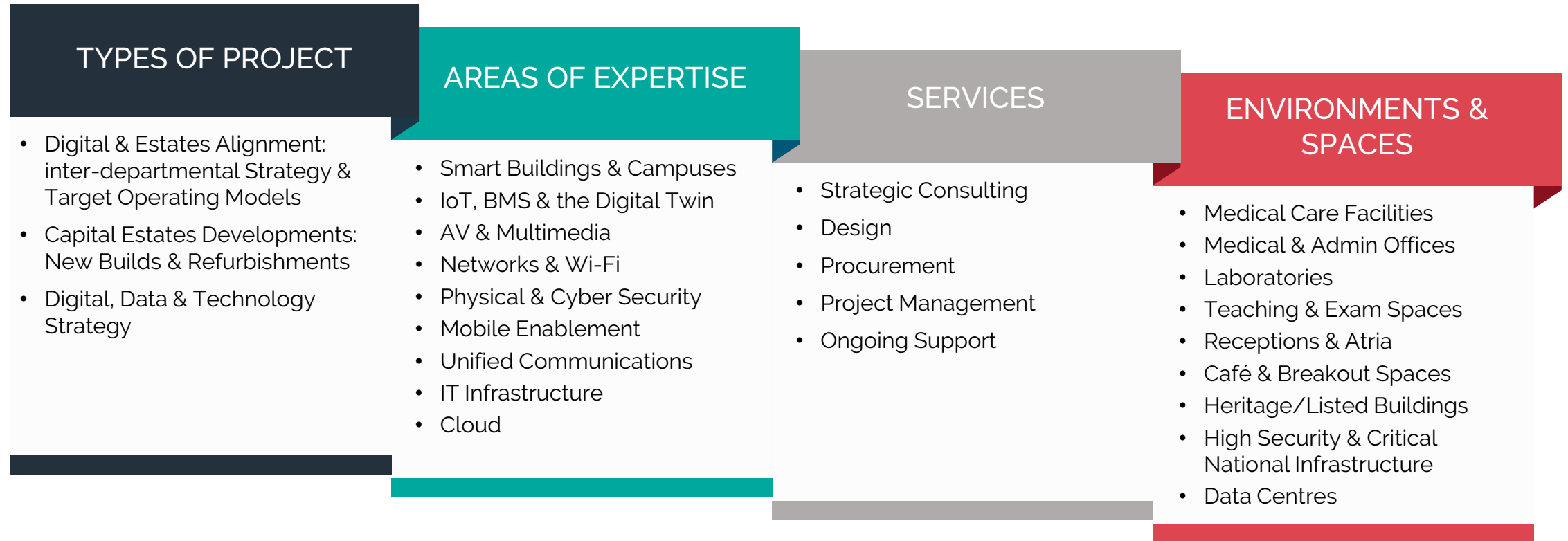
Estates Programmes

A physical healthcare estate becoming increasingly digitised, and the capital building programmes that are vehicles for transforming space

People

The users – patients, clinicians, visitors, and staff – who use the Estate and the technology within it

Technology Consulting for the Healthcare Estate

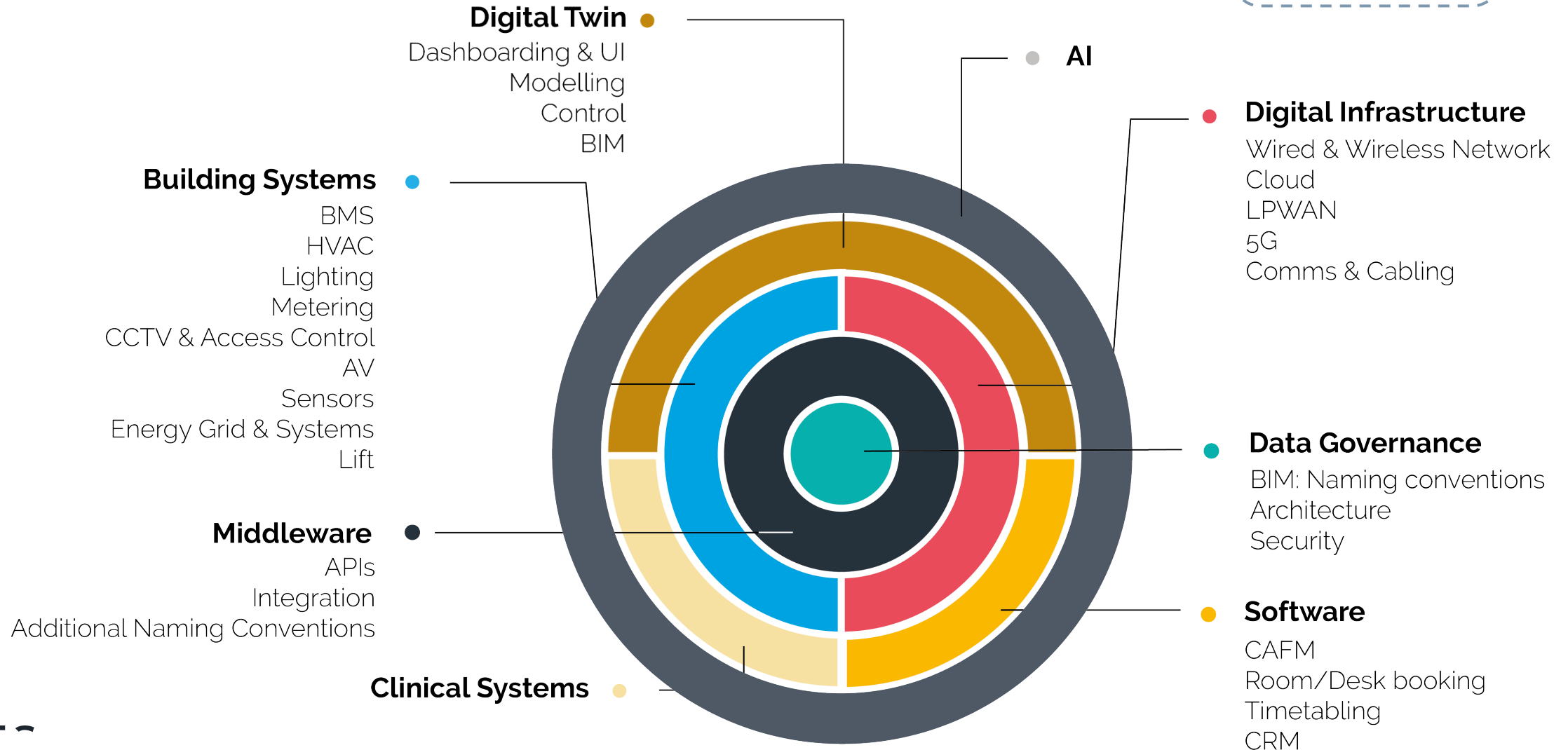


The Smart Hospital Ecosystem

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Tech Innovation

AR/VR
Chatbots/RPA
Robotics



Methodology

1. Articulate the vision statement

We work with senior stakeholders to develop a smart vision to support the Trust's strategy

3. Conduct a Smart Maturity assessment

We analyse current level of smart readiness of the Trust compared to the stated vision; this means looking at the operating model, technology and infrastructure, culture and budgeting

5. Build a long-term roadmap

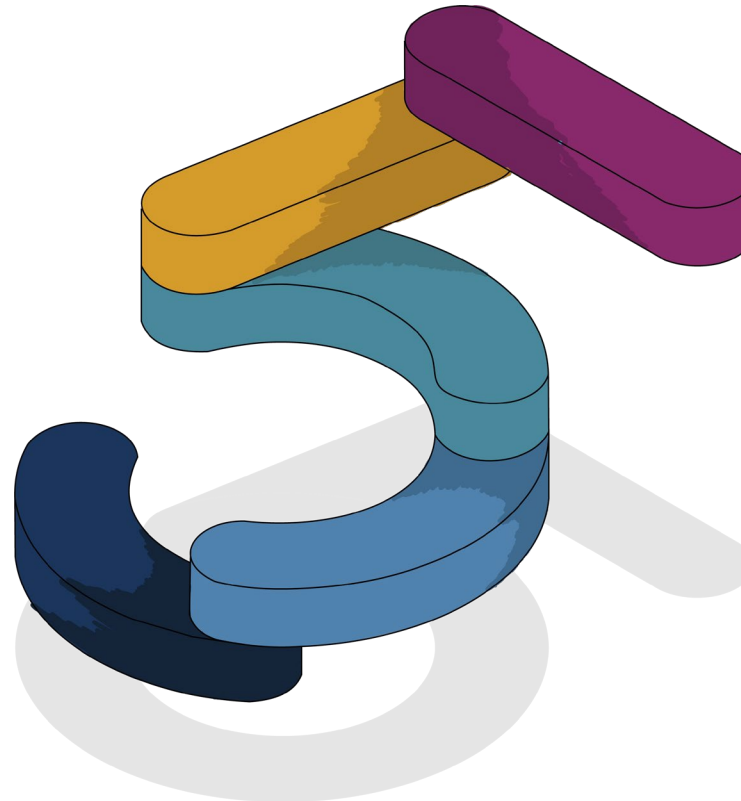
We develop a plan of action aligned to any upcoming capital developments or digital initiatives, ensuring that roles and responsibilities are defined, enabling the Trust to forecast and futureproof the estate.

2. Imagine user scenarios

We explore different scenarios of smart in action, tailored to the Trust; it helps encourage imaginative thinking and makes sure that it's being done for the right reasons

4. Prioritise smart investments

We evaluate the full range of potential projects, initiatives and investments in technology, infrastructure, space and people, and prioritise them based on the Trust's objectives and current state, including ROI analysis.



About PTS

PTS is an independent technology consultancy that help clients to:

- transform and manage their technical infrastructure in a cloud environment to deliver excellent digital services
- align their digital and estates strategies to deliver excellent hybrid user experiences

Our areas of expertise include:

- Smart Campus/Buildings
- Audio Visual & Collaboration Technologies: unified communications, meeting room technologies, digital signage, teaching and learning space technology (including lecture capture), etc.
- Network infrastructure: Local & Wide Area Networks, Wi-Fi, private mobile radio and newer forms of connectivity such as 5G, LoRaWan and Bluetooth
- Cloud & Data Centre infrastructure
- Security: cyber security, identity & access management, physical security
- Physical (passive) IT: structured ICT cabling, equipment room spaces, etc.

PTS has worked with over 115 Higher Education Institutions within the UK across all of the above services and disciplines, as well as across the public sector (including 47 NHS Trusts and Healthcare Organisations, 44 Councils and dozens of central government agencies) and the private sector (including technology & media, finance, legal and entertainment).

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