



**Life Science Hub**

**NHS**

# Midlands Cancer Alliances Life Science Hub Overview

NHS-Industry joint working to accelerate  
improvement and innovation in cancer care.

# Our Mandate

## Steer and Deliver

Steer and deliver a joint NHS-Industry programme that improves cancer outcomes across participating Cancer Alliances.



## Prioritise

Prioritise high-value challenges; match the best partners; mobilise safely and quickly.



## Ensure

Ensure alignment with national strategy, robust evaluation, measurable benefits, and spread proven practice.



## Vision:

**Together, we drive innovation in cancer care – enabling collaboration between the NHS and industry to turn bold ideas into real-world impact for patients and communities.**

## Our Purpose:

- **Focus innovation where it matters most** - improving outcomes for our population and transforming how cancer care is delivered.
- **Unlock collaborative investment** to accelerate projects with the power to spread and succeed across the system.
- **Show tangible results** through measurable improvements in quality, value, outcomes, and experience.
- **Embed innovation at scale**, harnessing the collective strength of commissioning, improvement, and transformation partners.
- **Create a learning culture without barriers** - a safe space to test, learn, and share what works, inspiring others to join the journey.

*Through innovation, collaboration, and partnership - we are shaping the future of cancer care in the Midlands and beyond.*

# Life Science Hub: Strategic Focus Areas

The Life Science Hub is strategically positioned to drive transformation across the NHS through two complementary pathways: scaling proven initiatives and piloting innovative projects. This dual approach ensures both immediate impact and future readiness.

## Expanding & Scaling Transformation

Rapidly scale proven initiatives across locations

- Industry collaboration projects with demonstrated benefits
- Swift acceleration of NHS improvement programmes
- Leverage existing transformation capabilities

## Proof of Value Projects

Collect evidence before broader implementation

- Launch new pilot initiatives
- Gather robust evidence and insights
- Validate approach before scaling

By combining the rapid deployment of validated solutions with careful piloting of new approaches, the Life Science Hub creates a sustainable model for continuous improvement and innovation across the healthcare system.

# The Role of Collaboration with Industry - joint and collaborative working projects

## Money & Investment

Collaboration means NHS plus industry both bring something valuable to the table.



## Rules & Scope

We follow NHS guidance for working with industry partners ensuring openness, fairness, and patient safety.



## Responsibility & Purpose

NHS remains responsible for patient care; industry supports but does not replace NHS duties and obligations.

## Project Duration

Time-limited projects with clear start and finish

These projects are 'added value' – aligning and complementing core responsibilities or functions

# What are the Collaborative Benefits?

## NHS Provides

NHS provides time and clinical expertise access

- Collaboration adds capacity and smart tools efficiently
- Speeds up existing NHS priorities and objectives
- Tests new tech and spreads successful innovations

## Industry Adds

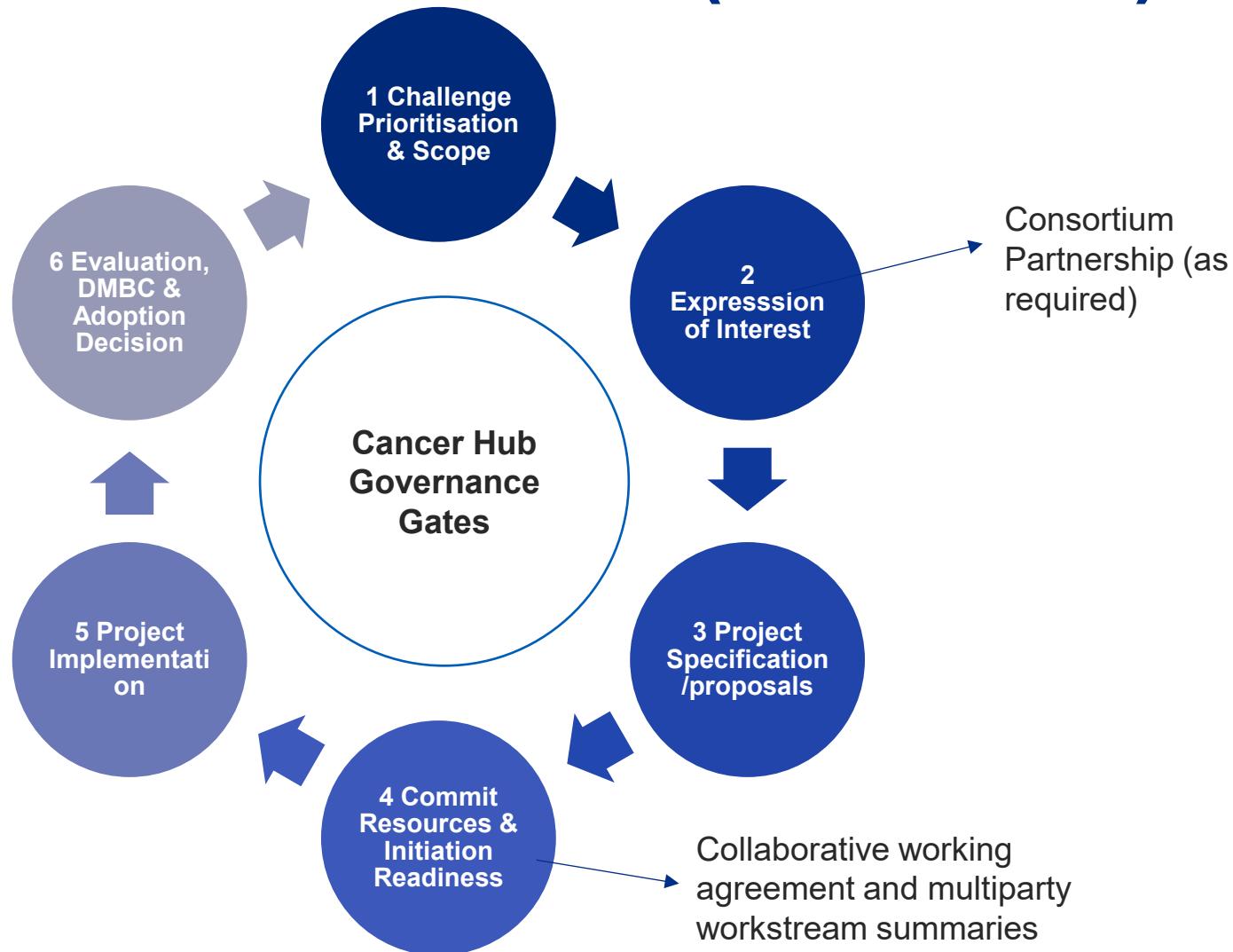
Industry adds tools, technology, and specialized skills

- Often tests new approaches and best practices
- Both parties share knowledge and learnings effectively
- Scale and spread successful innovations across NHS

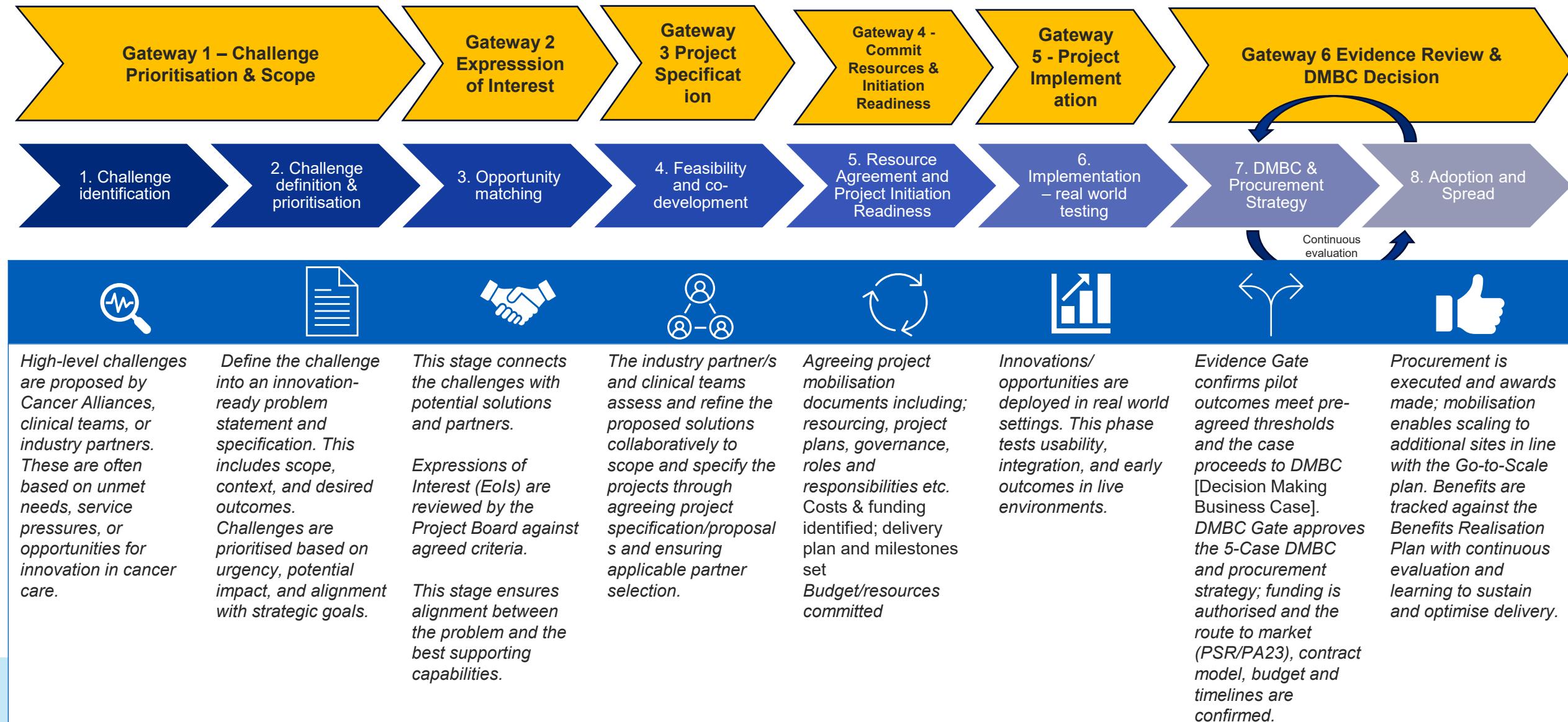
# Context & Purpose

- The Midlands Cancer Alliance Life Sciences Partnership Hub is bringing together **NHS and industry innovators** to tackle pressing cancer care challenges.
- **Project Innovation Partners** will engage with this collaborative network on specific projects that deliver tangible improvements in cancer pathways.
- The purpose of this role is to leverage your companies **above brand support for transformation and impact, and opportunity to test and build evidence for spread of med and health tech interventions**
- By aligning projects with alliance priorities, Project Partners can directly contribute to earlier diagnosis, faster treatment, and better patient outcomes.
- This is about **working collaboratively together for a population and across a pathway**

# Operating Model Overview (Six Gates)



# Standard Operating Procedure



# Challenges & Opportunity Areas

Key challenge areas in Midlands cancer services present opportunities for innovation:

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## Early Diagnosis & Screening:

Despite progress, thousands face delays in diagnosis (28-Day FDS compliance ~76% regionally). Innovations in imaging, biomarker tests, and AI-driven decision support could help find cancers sooner and reduce diagnostic backlogs.

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## Pathway Delays:

Only ~64% of patients start treatment within 62 days of urgent referral, indicating pathway bottlenecks. Projects that optimize referral workflows, triage, and scheduling (or introduce **rapid treatment models**) can help meet the 62-day standard.

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## Multidisciplinary Team Efficiency:

Efficient MDT processes are vital for timely treatment decisions. There is need for digital platforms or AI that streamline MDT case review, enabling coordinated care planning and reduced waiting times.

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## Capacity & Workforce Constraints:

Workforce shortages and limited capacity impact cancer care. Innovative solutions like decision-support tools, automation, and training programs can extend the reach of the existing workforce.

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## Patient Experience & Equitable Access:

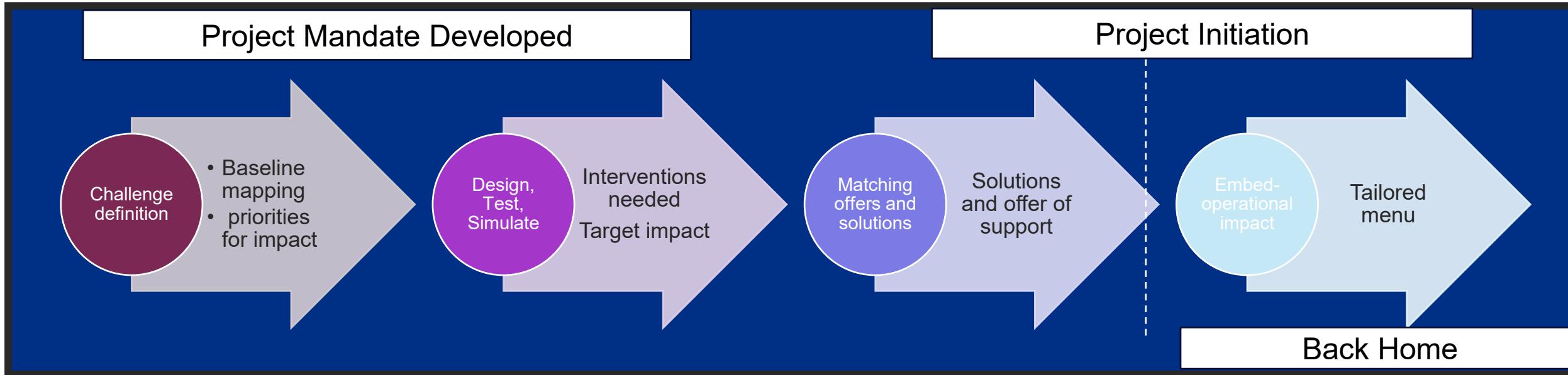
Projects that support patients (e.g. remote monitoring, tailored information, community outreach) can improve experience and ensure **equity** in outcomes across diverse populations.  
*Each Project Partner will address at least one of these challenge areas, aligning with the alliance's strategic ambition to improve pathways and close performance gaps.*

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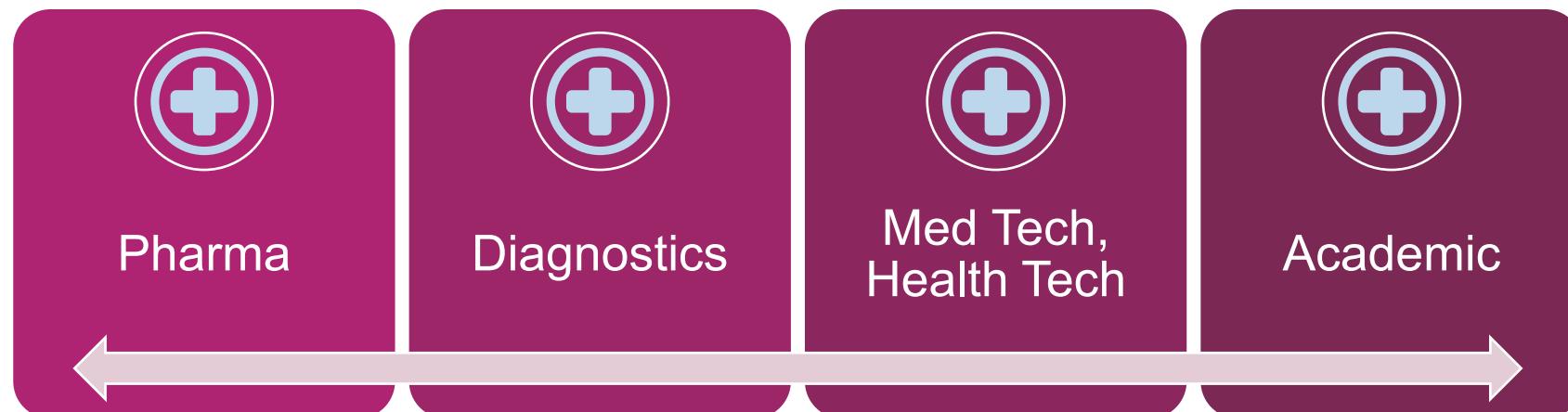
# Challenge Table

| Category                   | Referral & Pathway Management  | Diagnostic & Treatment   | Follow-up  |
|----------------------------|--|--|--|
| <b>Core challenges</b>     | <ul style="list-style-type: none"> <li>Referral delays/2WW variability; limited slots</li> <li>Fragmented coordination/communication &amp; manual hand-offs</li> <li>Digital fragmentation/poor integration across sites/systems</li> <li>Late-stage presentation in some pathways; uneven referral processes</li> </ul>   | <ul style="list-style-type: none"> <li>Diagnostic bottlenecks (imaging, endoscopy, histopathology, molecular profiling)</li> <li>Treatment capacity pressure (SACT day units/pharmacy release; theatres/surgical lists)</li> <li>Pathology/imaging turnaround delays</li> <li>MDT friction when results are late/incomplete</li> </ul>   | <ul style="list-style-type: none"> <li>Fragmented survivorship &amp; monitoring</li> <li>Inconsistent PSFU/PIFU use</li> <li>Limited remote monitoring capability</li> <li>Rehabilitation capacity gaps</li> <li>Variable adherence to follow-up guidelines in some tumour groups</li> </ul> |
| <b>Capabilities</b>        | <ul style="list-style-type: none"> <li>Single visit/rapid diagnostic models; streamlined pre-op; faster MDT turnaround</li> <li>Standardised referral/triage/escalation criteria</li> <li>Shared digital tools and better data flow for referrals, images, pathology and MDT packs</li> <li>Support for earlier detection/screening pathways where applicable</li> </ul> | <ul style="list-style-type: none"> <li>Capacity/flow optimisation for imaging/endoscopy/pathology (prioritisation, pooling, backfill)</li> <li>Improve SACT throughput (day-unit scheduling, pharmacy cut-offs, regimen optimisation)</li> <li>MDT efficiency (standard datasets, auto-compiled packs, decision-ready lists)</li> <li>Proactive tracking of long waits/breach risks</li> </ul> | <ul style="list-style-type: none"> <li>Scale PSFU/PIFU with clear criteria</li> <li>Remote monitoring/virtual review where appropriate</li> <li>Integrate patient-reported outcomes (PROs)</li> <li>Standard rehabilitation pathways with defined escalation to specialist review</li> </ul> |
| <b>Fast starts</b>         | <ul style="list-style-type: none"> <li>Protect 2WW capacity with digital triage &amp; slot protection</li> <li>Pre-MDT data completeness checks</li> <li>Consider on-call diagnostics/biomarker workflows to speed decisions</li> </ul>  | <ul style="list-style-type: none"> <li>Slot pooling &amp; demand smoothing across centres</li> <li>Agree pathology/imaging turnaround expectations aligned to MDT dates</li> </ul>   | <ul style="list-style-type: none"> <li>Implement PSFU/PIFU operating rules and basic utilisation views</li> <li>Prioritise lightweight remote monitoring for selected cohorts</li> </ul>   |
| <b>Measures of success</b> | <ul style="list-style-type: none"> <li>2WW utilisation</li> <li>Median time to MDT</li> <li>Reduced hand-offs</li> </ul>   | <ul style="list-style-type: none"> <li>Diagnostic turnaround (pathology, imaging, endoscopy)</li> <li>SACT chair utilisation/pharmacy release</li> <li>Theatre list fill</li> <li>Time from decision-to-treat</li> </ul>   | <ul style="list-style-type: none"> <li>PSFU/PIFU criteria adherence</li> <li>Remote monitoring coverage</li> <li>PRO completion where used</li> <li>Fewer repeat attendances; improved experience</li> </ul>   |
| <b>Enablers</b>            | <ul style="list-style-type: none"> <li>Clinical governance for pathway change</li> <li>Data-sharing agreements</li> <li>Practical digital integration of referral/triage tools</li> </ul>  | <ul style="list-style-type: none"> <li>Standard datasets and connectivity across diagnostics/MDT</li> <li>Protected ops time for optimization</li> </ul>   | <ul style="list-style-type: none"> <li>Workforce upskilling for virtual follow-up</li> <li>Remote monitoring capability integrated with existing systems</li> </ul>  |

# Collaborative Innovation



Pooled capabilities, resources and know-how under single approach



# Transformation support

Discovery

Care models, and pathway best practice against existing practice

Pathway KPI reporting and variation

Process improvement identification, implementation planning

Decision tools- Intervention, impact , demand and capacity, performance, workforce, performance, finance

Workforce capacity, capabilities and new role deployment, MDT working

Digital tools, to enhance operational efficiency and flow

Clinical Operational Policies

Design

Deliver

# Register of Cancer Collaborative Industry Projects

- To support the Life Science Hub in obtaining a comprehensive picture of past and active collaboration projects with industry we are asking you to detail these by using the following link below to capture this information
- Please feel free to share with the cancer leads in ICBs and Trusts, to ensure these programmes are also captured
- This information will support a deep dive into sharing the findings from these projects and ensuring there is benefit across the wider footprint
- If you can please aim to complete this request as soon as possible

[REGISTER OF CANCER COLLABORATIVE INDUSTRY PROJECTS \(Past & Active\) – Fill in form](#)