



**Bringing Health and Care Research
and Trials into Communities and
Homes**

**To Reduce Inequalities and Promote
Economic Development**

A Digital Systems Approach for the UK

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PI, US NIH All of Us Research Program
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A bit about Vibrent's Journey and How We Got to Leeds

- Incubated as a part of technology innovation portfolio of the US NIH.
- Received large funding from the NIH to create a next-generation and **holistic** Digital Health Platform to disrupt clinical research and trials.
- Designed to reduce inequalities and increase access to trials by bringing them into communities and homes.
- NEXUS educated us and made a compelling pitch for why Vibrent should make inward investment in Leeds, relative to other locations.
- We have established our EMEA HQ in Leeds to build highly skilled **data analytics and AI** team.

I am deeply grateful to Nexus, University of Leeds,
NIHR and NHS for making me feel so welcome and
for their gracious support in the last six months.

Thank you.

WHOLE HUMAN Approach Merging In-Clinic Data with Real World Data



Real-World Impact: What We've Delivered So Far

1M+

Hybrid and
Remote

3.5M

E-Consent

11.2M

Surveys
Completed

305,000

Appointments

78M

Patient
Engagements

15,100

EHR data

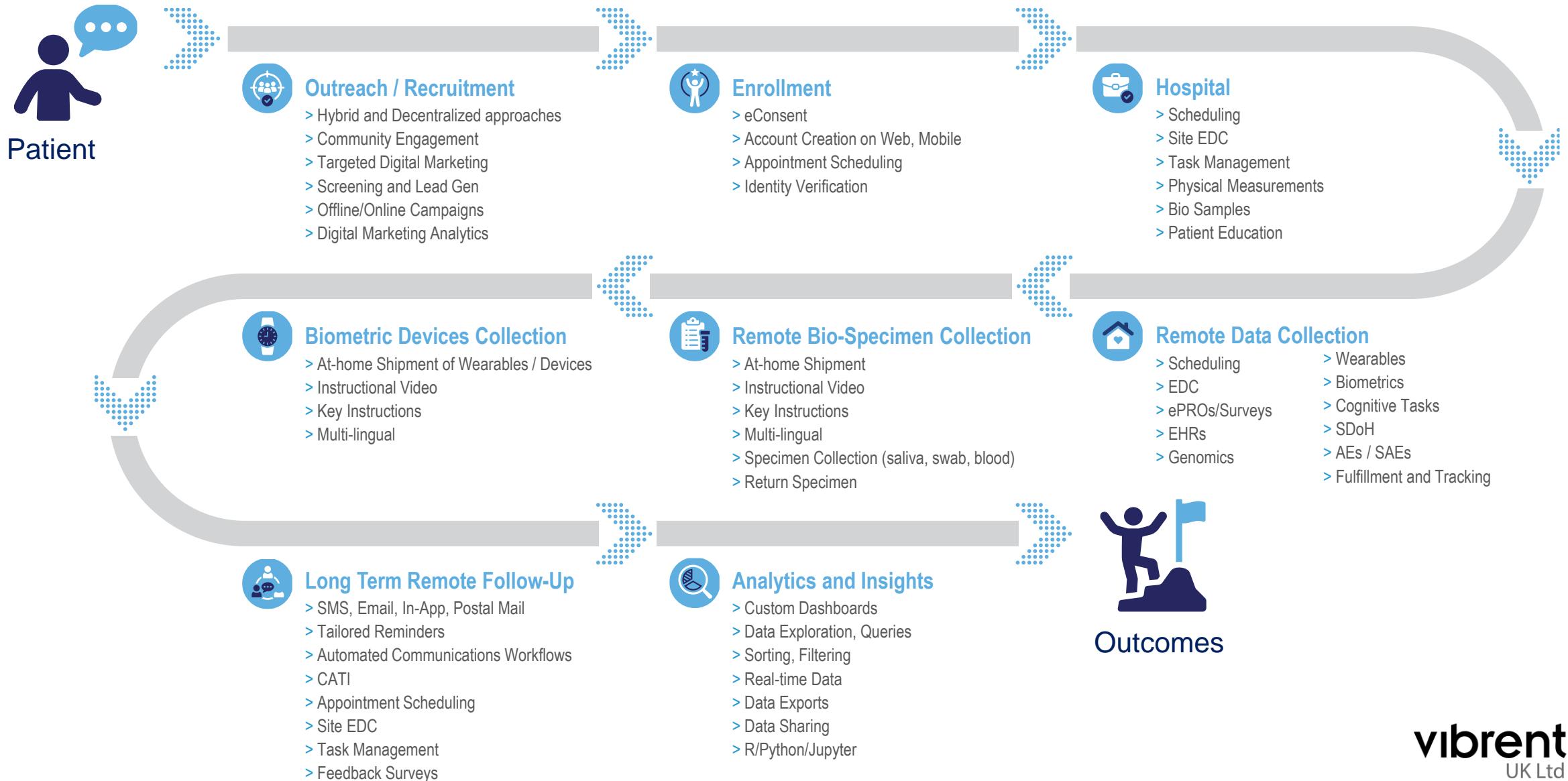
80%

Population
Diversity

75,000

Wearables

Vibrent End-to-End, No-Code Technical Solution Tying Together Hospital, Community and Home, Validated at Large Scale in the US



Platform for AI-Enabled Clinical Studies, Trials and Registries

Therapy area agnostic

- Community engaged health and care research
- Prevention studies
- Population health studies
- Real-world studies
- Observational studies
- Therapeutic trials – phase 2, 3 and 4
- Screening, early detection
- Pragmatic clinical trials
- Registries



Exemplar High-Value Use Cases for UK – Academics, CROs, Biopharma to Unlock Economic Growth

1. Bring clinical research and trials into communities and homes
2. Citizen-driven inclusive research with the power of “patient feedback”
3. Digital first trials
4. Early disease risk screenings in the community
5. Clinically integrated eConsent
6. Support decentralized clinical trials
7. EPR/EMR/EHR to EDC – Automatic ingesting EPR data for research
8. Mental health/Neuroscience and cognitive assessments
9. Reduce inequalities

How Our Solution Aligns with the NHS “3 Shifts”

We’re bringing a **proven platform and model** for mobile-enabled research and care — directly aligned with the NHS’s strategic direction:



Pilot mobile and remote research that meets people where they are



Evaluate inclusive, end-to-end digital research workflows



Generate evidence from diverse, community-based cohorts earlier in the care journey



Surgical Recovery in the UK Faces a Dual Challenge of Rising Demand and Limited Capacity

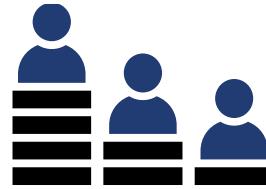
The UK faces a backlog of over 7 million patients awaiting routine surgery, with a significant number of hospital beds occupied by individuals who could otherwise recover at home. The HealthTech Research Centre (HRC) in Accelerated Surgical Care emphasizes transformative and disruptive technology innovation and real-world evidence, especially for communities lacking sufficient post-discharge support.



Over 7 million people are on NHS surgical waiting lists



Surgical readmissions cost the NHS hundreds of millions annually



Patients in underserved or rural areas are less likely to access post-op care



Discharge Delay – one in six hospital patients are medically fit to leave

NIHR & NHS Goals: Aligning with the Future of Surgical Research and Care in Hospital, Community, and Home



Accelerating Surgical Innovation

- Enable quicker diagnosis and treatment of surgical conditions
- Support safe recovery in the community
- Leverage HealthTech to reduce waiting times and bed occupancy



Digital, Distributed, Patient-Centred

- Support transition from hospital-based to home-based recovery
- Validate digital tools that span pre-op to post-discharge
- Align with NHS “3 Shifts”: analogue to digital, hospital to community, sickness to prevention



Driving Equity and Inclusion

- Embed research inclusion and public partnerships in every stage
- Prioritise underserved communities in surgical research
- Promote co-design and participation, not just observation



From Research to Impact

- Generate real-world evidence to support adoption in NHS workflows
- Support SMEs and startups in evaluation and uptake
- Use lived experience to inform design, delivery, and dissemination

Seeking Evaluation Collaboration for the UK

- Use case agnostic (could be surgical, cancer, pediatric, mental health, maternal, among others).
- Evaluate patient engagement, inclusion, data quality, and outcomes across the life cycle of the patient's clinical research and trial journey.



thank you

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