



West Midlands Health
Tech Innovation Accelerator

Professor Liam Grover

Locally-led Innovation Accelerators delivered in partnership with DSIT, Innovate UK and City Regions



What is the WMHTIA?

A government-funded project focused on helping companies drive their innovations towards market success.

21 partners across academia, industry and NHS bringing their expertise under one cohesive programme.

What does the WMHTIA do?

The WMHTIA provides access to services and expertise that address challenges in health tech translation.

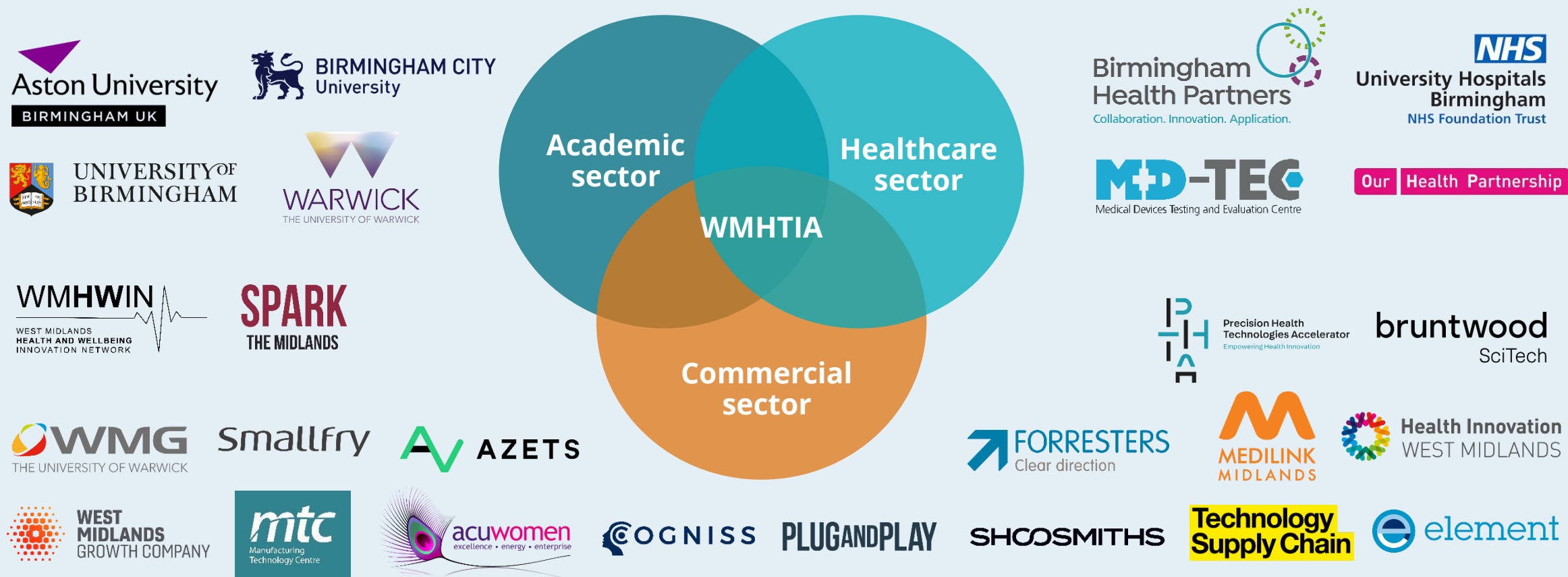
A single access point, all-in-one support programme that tailors its support to every engaged innovator's needs.

Delivery Organisations



Partnership

The WMHTIA has, for the first time, united key players across the West Midlands.



WMHTIA Support

The WMHTIA leverages the extensive expertise of its partners – offering a wide array of support including:

Diagnosis

Expert diagnosis of company needs and bespoke development planning

Development

Access to expert infrastructure for product development including prototyping, regulation and evaluation

Diversification

Leveraging regional manufacturing strength to help companies expand supply chains

Definition

Challenge-led innovation focused on the most critical needs in the healthcare sector

Deployment

Support with real-world NHS testing and access to international markets

Plus £1.54m
Secondary Grant
scheme

WMHTIA Intensively supported Enterprises according to Technology Type



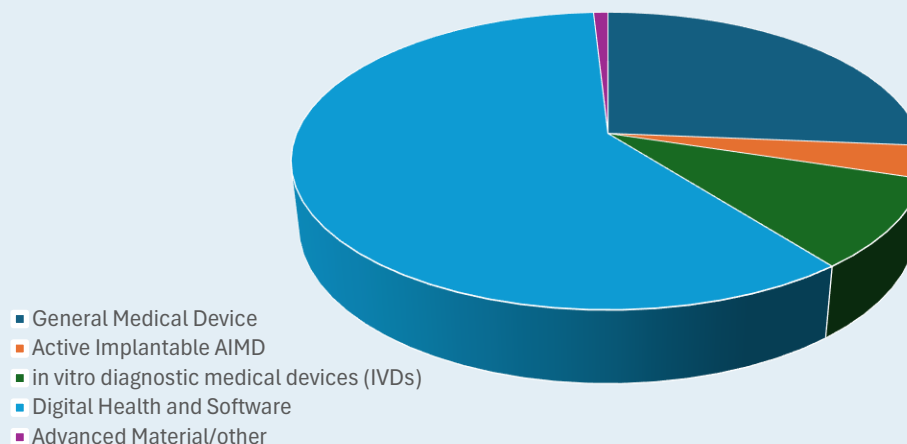
Among those enterprises receiving intensive support, there was a strong focus on Digital Health and Software technologies

Health Technology System Classification system from the Medical Devices Regulations (2002*)

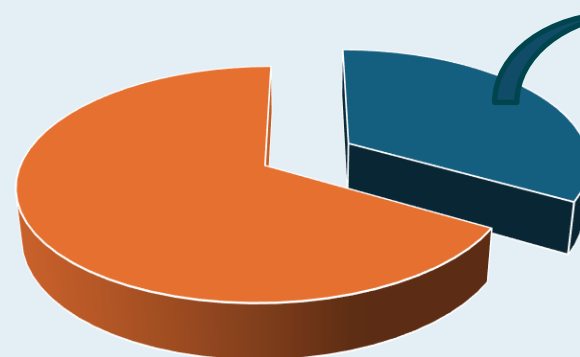
Classification	Description
General medical devices	e.g. syringes, dressings, heart valves, ECG monitors, CT scanners and dialysis machines, including any software used to drive them
Active implantable medical devices (AIMDs)	e.g. powered implants or partial implants that are left in the human body, such as implantable cardiac pacemakers, implantable nerve stimulators, cochlear implants and implantable active monitoring devices
In vitro diagnostic medical devices (IVDs)	e.g. equipment or systems intended for use in vitro to examine specimens including all instruments, software, reagents and calibrators, such as blood grouping reagents, pregnancy test kits and hepatitis B test kits
Digital health and software	e.g. standalone software, decision support and mobile apps

*MDR currently under review but not yet published

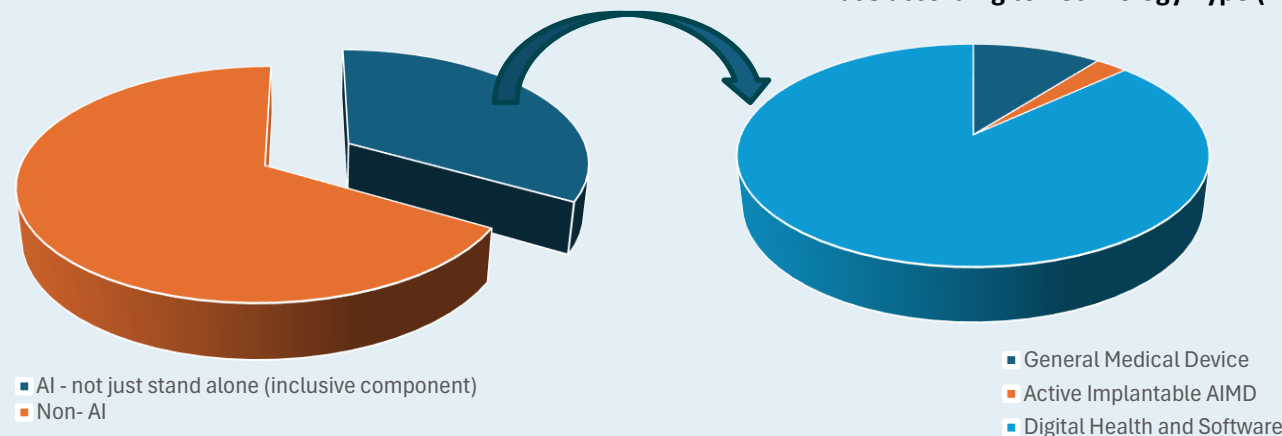
WMHTIA Intensive Support according to Technology Type (n=114)



Of the 114 technologies, 1/3 incorporated AI



AI use according to Technology Type (n=38)



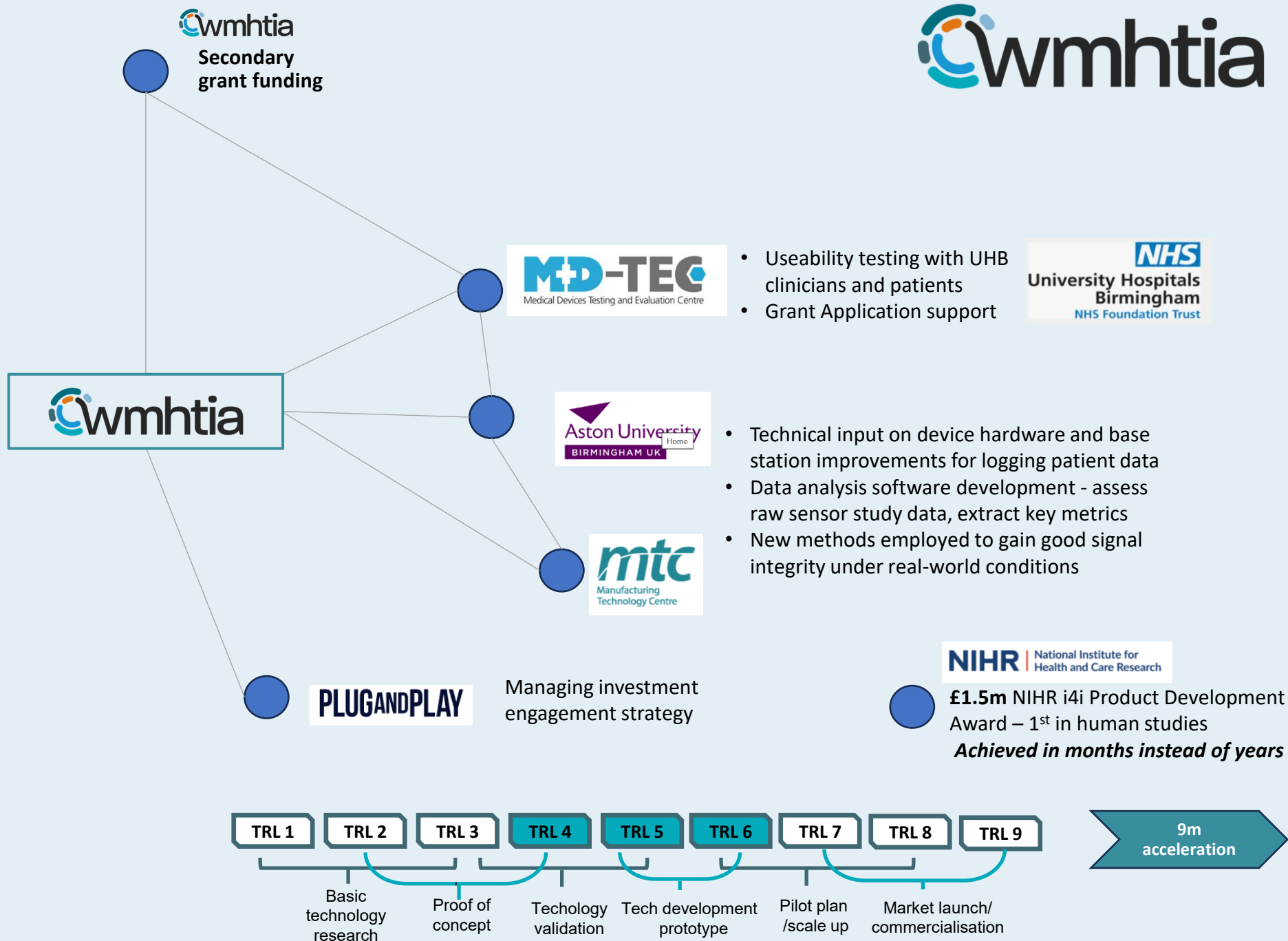


Non-invasive bowel activity sensor to diagnose and objectively monitor in real time bowel conditions such as IBS and track return of bowel function post-surgery



Developed by Warwickshire engineering SME

Need: Use patient diaries currently to track IBS symptoms. Need for an objective measure of response to medications; lifestyle interventions. Tracking return of bowel function post surgery can lead to earlier patient discharge.

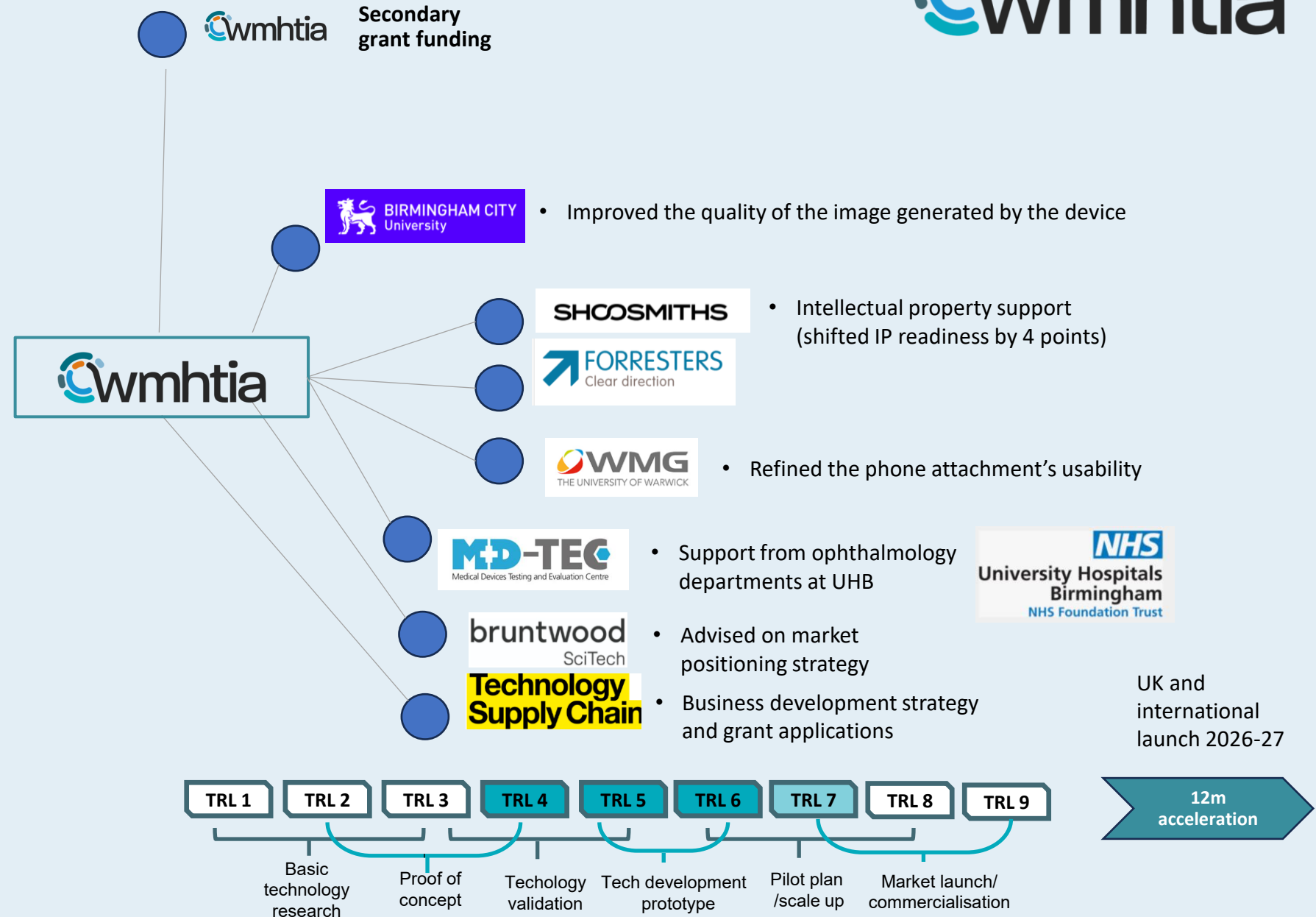


AI powered diagnostic in ophthalmology – with smartphone compatible screening device for faster and more accurate detection of 39 eye conditions, including diabetic retinopathy



Argentinian based firm pivoted into healthcare and have relocated to Coventry

Need: Allows for accurate community based diagnostic capability aligning with key shifts in care described in government 10 year 'Fit for the Future' policy.



WMHTIA Impact

£49.4m of private investment
- **£36.3m** direct VC investment by our SMEs
- **£13.1m** in private co-investment

28 new companies formed during the WMHTIA

5 challenge-led programmes with WM NHS Trust (**2 Co. already procured** by NHS – usually takes years)

2 internationally-recognised support programmes land in the West Midlands
SPARK The - Midlands
Plug and Play UK Health

£67.3m of co-investment across the WMHTIA

144 new jobs created or safeguarded in this high technology sector (72.5 FTE)

73% receiving intensive support are **West Midlands based companies**; **54%** are in WMCA boundary. **Engagement across all districts** of the region.

Ecosystem building: (multiple partners collaborating with a business and with each other e.g. Royal Orthopaedic Hospital and BCU using hospital data to improve patient outcomes)

269 companies in cohort - mine for evidence based business skills requirements

114 health tech companies provided with **intensive bespoke development support** from 21 WMHTIA partners

£2.48m directly awarded to 63 SMEs/ academic teams
- **£1.54 secondary grant competition** (**38%** female founders & **33%** from ethnically diverse backgrounds).
- **£500k SPARK**
- **£440k WMHWIN**

Accelerating rate of technology **procurement** and rate and **quality** of grant applications/ VC pitches, bringing economic benefit to region and benefit to patients



wmhtia.com

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