



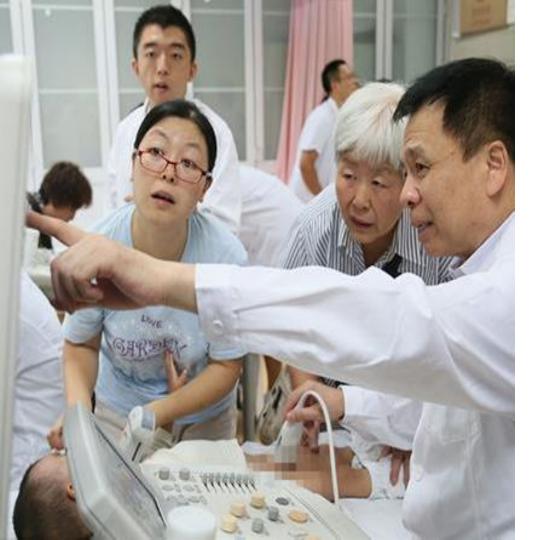
unlocking the potential of ultrasound





50 million

medical professionals in the world*





but less than

2%

the skill to use ultrasound

Ultrasound is a vital medical diagnostic tool





It's one of the **safest**, **fastest** and **cheapest** diagnostic tools in medicine and is reducing rapidly in both size and cost ...

Used across the majority of medical specialities





Ultrasound remains difficult to learn

1. Sliding

2. Rocking

4. Rotation







2D to 3D image

awareness





co-ordination















Understanding of scanning protocols



This is why ultrasound remains a specialist skill

Our range of products aims to unlock this





with **hi-fidelity** haptic and manikin-based training **simulators**

SUPPORTING

ULTRASOUND SPECIALISTS

with deep-learning image analysis software and augmented reality guidance tools

ENABLING

ULTRASOUND SCANNING FOR ALL

with artificial intelligence based automated scanning software for key scanning protocols

Future

Clinical training

Assessment and certification

 \rightarrow

First contact support and assessment

On-going quality guidance

Clinical

100% performanc e audit

scanning by unskilled practitioners









ScanNAV









ScanNAV



*Conceptualised image. Not actual product



SIMULATION

The gold standard in ultrasound training simulators:









Launching 2018







General medical and OBGYN simulator aimed at medical schools and hospitals globally











New hybrid version of ScanTrainer and HeartWorks aimed at the Emergency market





SUPPORT, GUIDANCE AND AUDIT WITH AI



deep learning based image analysis



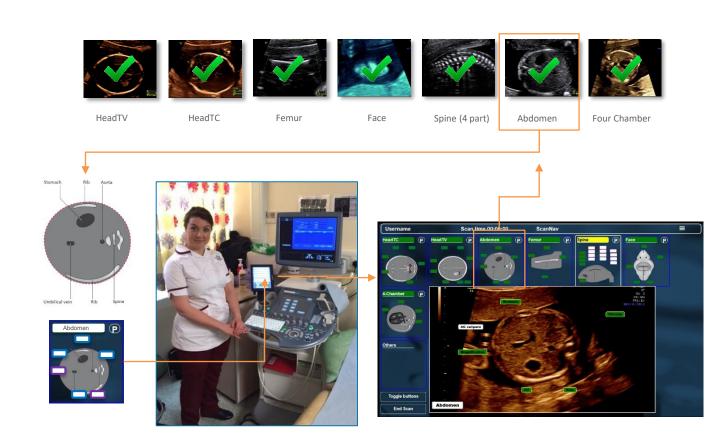


reviewed and graded 380,000 obstetric images



Automated image analysis – 20 week





Scan**NAV**™

Automated image analysis – 20 week



Safety

Guidance and safety net in early stages of scanning career



Effectiveness

Raises standards of individuals and departments

Efficiency

Faster acquisition of key protocol images, correct image every time

Cost saving

Identifies poor performers and increases chargeable scanning

hours





ScanNAV[™] Potential to deliver automated scanning for all medics





NEEDLE GUIDANCE WITH AUGMENTED REALITY

Augmented reality ultrasound needle guidance

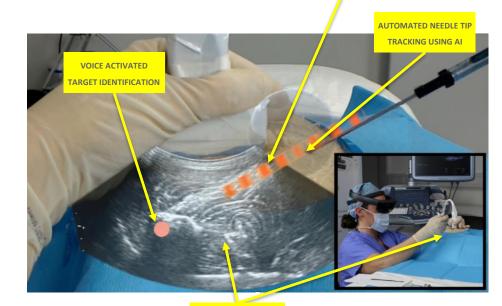






AUTOMATED PATHWAY
GUIDANCE TO TARGET

- Augmented Reality based needling assistant
 - Working POC device
 - Patent filed
 - C. £500k Innovate UK grant won
- · Expected benefits
 - Reduces procedure time
 - Requires less operator training
 - Reduces failure rates

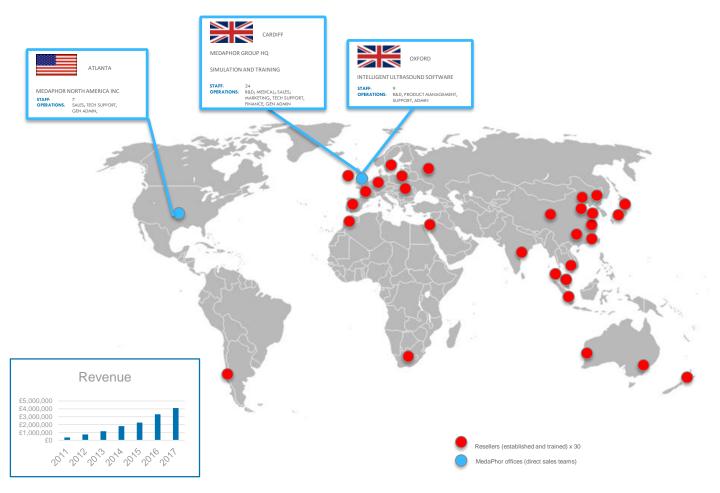


Innovate UK

EVERYTHING IN USERS
LINE OF SIGHT

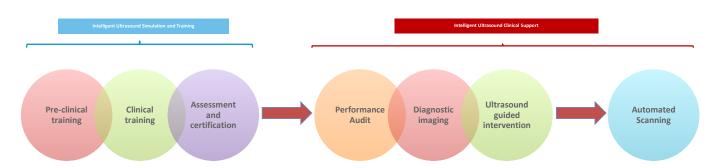
Our direct sales and reseller network





MedaPhor development pathway











DEEP LEARNING



audit software





Ultrasound needle Automated image guidance

ARTIFICIAL INTELLIGENCE



Automated diagnostictriaging device









NEEDLEGUIDE

AUGMENTED

REALITY

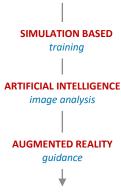
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Our unique combination of



can unlock the potential of ultrasound for all medical professionals





unlocking the potential of ultrasound