

360 Degree Live Stream Cameras in Transfer Medicine and Remote Care

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Background:

Up to 700 transfers per year between hospitals where there is a requirement for intensive care support.

Remote support presents unique challenges, especially for nurses and non-consultant doctors.

Audio only has limitations.

Aims and Objectives:

To identify suitable 360-degree cameras, MR headsets and software to live stream directly from the 360 camera to MR headset.

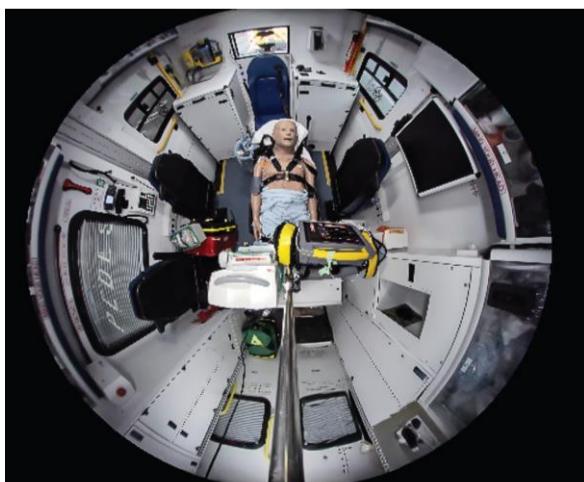
To trial remote support with this system in the clinical environment.

To evaluate remote facilitation for simulations.

To integrate the whole system within the secure NHS IT infrastructure within accepted cyber security and information governance requirements.

Approach:

- Technology – industry and academic input.
- Policy – Evidence integration triangle.
- Testing – extensive bench and simulation testing.



Outcomes:

Unique industry, academic and public sector partnership that has delivered a working product to enable remote interactive 360 video streaming from an ambulance, or trolley anywhere in the UK.

Proof of concept of mixed reality headset use.

Training package.

National policy framework.

Policy funding and resource secured.

Impact:

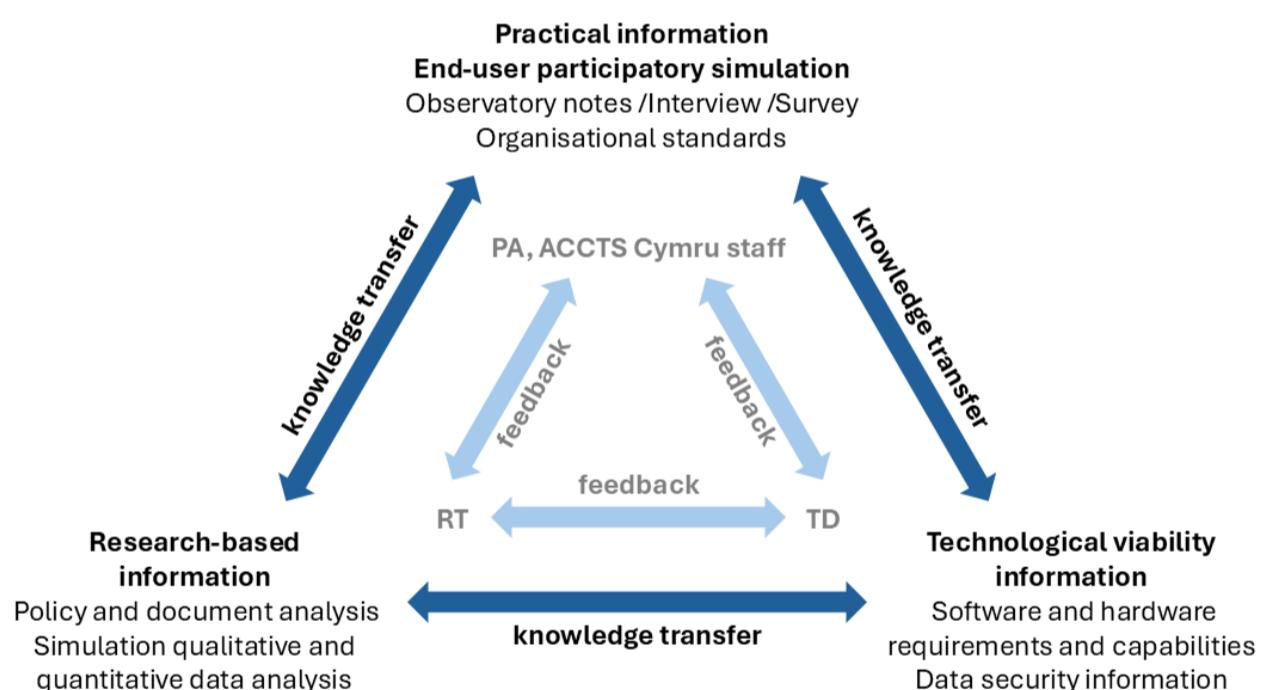
Training resource and policy for Wales.

Viable research programme.

20 simulation events using system.

Investment in technology across the service.

Public information videos and materials developed.



Key Conclusions:

Solid foundations to take a concept through to a working deployable system, which will not only benefit the service, but the wider health and social care sector.

Unique multi-disciplinary team also ensures that all elements including technical, feasibility, governance, and policy are covered off and that the solution is scalable.

Next Steps:

- Competitive research funding for 999 REACH.
- Launch of national policy at UK parliament.
- Implementation of Mixed reality headsets nationally.
- Clinical safety assessment.
- Publication of findings.

