

The background is a stylized illustration. On the left, a flagpole holds the flag of Wales (a red dragon on a white and green field). In the center, there's a building with a sign that says 'HOSPITAL' and 'YSBYTY' below it. To the right, an ambulance is parked, featuring a green and white checkered pattern on its side. The ambulance has text on it: 'Tim Gofal Dwys Intensive Care Team' and the 'ACCTS' logo. Three people are standing in front of the hospital: a man in a dark uniform with 'ACCTS' on his chest, a woman in a yellow high-visibility vest, and another woman in a dark uniform. The main title is overlaid on this scene.

360° Live Stream Cameras in Transfer Medicine and Remote Care

Bevan Exemplar Programme
Dr Prateek Verma

Agenda



Background &
challenge



Aim & objectives



Approach & delivery



Outcomes
(technology, policy,
training/testing)



Impact, challenges,
conclusions & next
steps



Background & Rationale



~700 ACCTS CYMRU
TRANSFERS/YEAR;
TEAMS
INCREASINGLY
PRACTITIONER-LED



REMOTE SUPPORT
CURRENTLY RELIES
ON STRESSED TEAMS
RELAYING INFO BY
PHONE



SUBJECTIVITY AND
VARIABILITY IN
ADVICE; MULTI-
TASKING UNDER
COGNITIVE LOAD

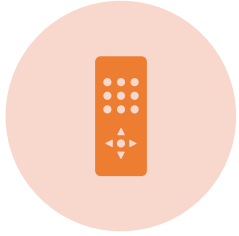


SIMULATION
FACILITATION IN
MOVING
AMBULANCES IS
RISKY AND MISSES
INSIGHTS



RURAL HOSPITALS
FACE STAFFING GAPS;
REMOTE CLINICAL
SUPPORT IS
ESSENTIAL

Aim & Objectives (REACH)



ENABLE REMOTE
SUPPORT IN
EMERGENCY
ASSISTANCE,
CLINICAL
HEALTHCARE
TRANSFER (REACH)



IDENTIFY SUITABLE
360° CAMERAS, MR
HEADSETS, AND
STREAMING
SOFTWARE



TRIAL REMOTE
SUPPORT IN THE
CLINICAL
ENVIRONMENT



EVALUATE REMOTE
FACILITATION FOR
SIMULATIONS



INTEGRATE WITHIN
SECURE NHS IT WITH
CYBER SECURITY & IG
COMPLIANCE

Approach – Design & Partnerships



MULTI-DISCIPLINARY
COLLABORATION
ACROSS INDUSTRY,
ACADEMIA, AND NHS



PROTOTYPE BUILT FROM
COTS TO DEMONSTRATE
CONCEPT AND SECURE
BUY-IN



ENGAGEMENT VIA
MEDICAL DIRECTOR'S
OFFICE, ARCH AND
WIDER STAKEHOLDERS



NOVEL INDUSTRIAL
PARTNERSHIP (REVENUE
SHARE); IP RETAINED BY
HEALTH BOARD

Approach – Delivery & Evaluation



Technology: co-develop selection of 360° cameras & VMS to standards



Policy: co-designed with Warwick; grant-supported; evidence-based



Testing: 20 simulations to refine tech, usability, policy & training



Training & public info packages developed



Awaiting outcomes of research bids to enable 3-year programme



Outcomes – Technology

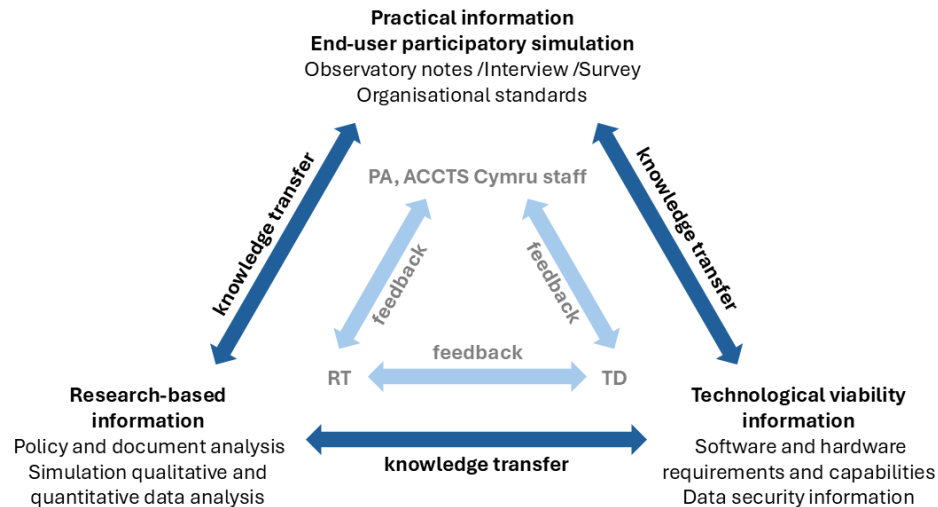
- Three systems supplied for ACCTS' ambulances
- Mast-mounted IP camera on specialist stretcher; detachable comms box
- Comms box: dual-modem, 4–6h battery
- Roof camera for vehicle
- Bonding options; supports ward-based stretchers and off-vehicle use



Ariennir gan
Lywodraeth Cymru
Funded by
Welsh Government



Outcomes – Policy



- Three-phase evidence-based method: analysis → participatory simulations → integration
- Human-factors captured to benchmark minimum safe use requirements
- Interfaces with relevant standards and policies across services
- Outputs: final draft policy; public materials; video explainer



Outcomes – Training & Testing

- Training package delivered; feedback incorporated pre-rollout
- Online learning available
- 20 simulation events; 12 participants
- Write-up planned for publication



Impact & Evaluation (Planned)



Awaiting formal impact data due to timeline dependencies



999 REACH: £500k+, 3-year Programme with Warwick – modality comparison



Parallel work on clinical safety & ISO compliance



Challenges & Mitigations

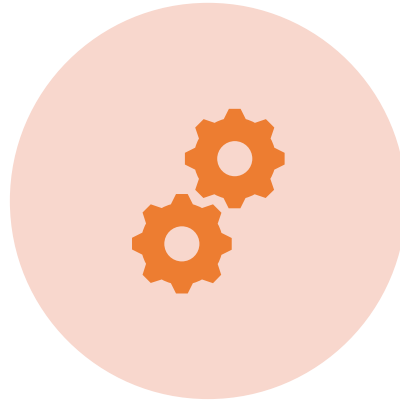
- Ambitious scope; some unfunded elements (deferred)
- Technical spec disagreements with industrial partner
- Clinical use pending final policy & tech completion
- MR headset streaming proven in sims; procurement underway
- Mitigations: targeted funding secured; board & union review ongoing
- Tendering & procurement progressing; scheduling installs alongside other electronics



Conclusions



CONCEPT TRANSLATED TO
DEPLOYABLE SYSTEM WITH
SCALABLE DESIGN



POLICY FRAMEWORK IS PRODUCT-
AGNOSTIC AND REUSABLE



POTENTIAL BENEFITS ACROSS
HEALTH & SOCIAL CARE IN WALES
AND BEYOND

Next Steps & Timeline

- Prototypes partially installed for simulated use across Wales
- Final testing: Jan 2026
- National policy publication targeted; UK Parliament hosted launch planned Q1 2026
- 3-year research portfolio subject to funding decisions
- WG Capital funding secured for VR headsets
- Open days planned for stakeholders



Dissemination & Recognition



AAGBI Innovation Award – Runner Up (2025) for 999 R.E.A.C.H.



Presentations: Emergency Services Show, CoP Research Conference



Festival of Social Sciences (Warwick) public engagement



Trade-union forums; national dispatch symposium (EHAAT)



Two manuscripts in development for peer-review





The background is a stylized illustration of a hospital setting. On the left, a flagpole flies the flag of Wales, which features a red dragon on a white and green field. In the center, a white building with a red cross logo is labeled 'HOSPITAL YSBYTY'. Three healthcare professionals stand in front of the building: a man in a dark uniform, a woman in a yellow high-visibility jacket, and another man in a dark uniform. To the right, a white ambulance with green and yellow checkered patterns is parked. The side of the ambulance has the text 'Tim Gofal Dwys Intensive Care Team' and the 'ACCTS' logo, which includes a red dragon. The main text is overlaid on this scene.

Bevan Exemplar Programme

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