

**Institution: Falmouth University** 

Unit of Assessment: 35 - Music, Drama, Dance and Performing Arts

#### a. Overview

Falmouth University was awarded full university title in 2012. Formerly University College Falmouth it merged with Dartington College of Arts in 2008 to create the largest specialist arts university in the UK outside London, covering art, design, journalism and media, choreography, music, theatre and writing. In 2009 a new Vice-Chancellor, Professor Anne Carlisle, was appointed who has positioned research and innovation as a central tenet of the University Strategic Plan, delivering significant growth over the past three years. Professor Phil Moore took up the post of Pro Vice-Chancellor for Research and Innovation in 2012. Following a 2012 Institutional Review, the QAA report on Falmouth commended our emergent research culture, a continuous development following RAE 2008.

The university occupies two nearby campuses in Falmouth and Penryn and has been supported by substantial investment into Cornwall through the European Social Fund (ESF) and European Regional Development Fund (ERDF). Investment in the university during this assessment period (£38m) has created three new facilities: The Performance Centre (£19m) - supporting the merger with Dartington College; The Exchange (£10m) to extend the library services and research and meeting spaces for staff and students; The Academy of Innovation and Research (AIR) (£9m) to accelerate research and knowledge exchange. AIR is Falmouth's portal for business engagement and innovation. Recent ERDF investment (£1.5m) has created Alacrity Falmouth, facilitating market-driven business incubation in the creative industries.

We share our Penryn campus with the University of Exeter, as well as the Cornwall Council-owned Tremough Innovation Centre, another ERDF investment (£13m), where start-ups emerging from the university and its partners in the creative industries and related businesses can find accommodation and business support for the next stage in their progress.

The AIR and PC buildings have provided a significant focus for research and engagement across the university and with private, public and HE organisations. £3m of the revenue component of the funding to establish AIR was allocated to new appointments to further Falmouth's culture of research and business innovation.

Falmouth's strategy is driven by: the goal of excellence in both student experience and our contributions to the disciplines within which we operate; and two key trends:

- The ubiquity of digital technologies and the opportunities and challenges it presents to the Arts and the Creative Industries;
- The increasing importance of sustainable use of the planet's resources.

The opportunities provided by digital convergence are key to the success of both Cornwall and the university and as such guide our recruitment, research and awards. As part of our commitment to the growth of Cornish economy we have taken an ecosystem approach aiming to put in place an environment that encourages collaboration, experimentation, research and entrepreneurship. We have over 80 formal research partnerships within the business and third sectors, including collaborations linked to the unit with BT, Department of Energy and Climate Change, Kneehigh Theatre, MCC, NHS and WildWorks.

# b. Research strategy

The research strategy for this Unit of Assessment since 2008 and outlined in the last RAE submission focused on four key objectives:

- To establish a profile of international excellence in selected areas of research through strategic and targeted investment;
- To maximise the impact of this research in support of Cornwall's growing creative economy;



- To ensure provision of a sustainable, high quality and stimulating research environment within which to develop both staff capabilities and to frame postgraduate research student programmes;
- To ensure that research and enterprise directly enhance teaching and learning. The research strategy of this UoA is fully endorsed by the institutional Strategic Plan (2012-17) where to "Be celebrated for Research and Innovation" and "Helping to grow Cornwall" are two of the five central tenets.

The Academy of Innovation and Research was operational before the completion of the AIR building in 2012. Digital Economy and Sustainable Design were identified as research foci in the last RAE based on the trends driving the university's strategy. A Research and Innovation Office (RIO) was created to provide professional and administrative support for the growth of research and innovation activities through various research funding schemes, staff development and support for the PhD programme. In 2012 RIO also took responsibility for the External Funding Office that also supports our European funding and the growth of the Cornish economy.

The importance of the Digital Economy to Cornwall was underlined by the £132m Superfast Broadband (SFBB) roll out in Cornwall funded by ERDF and BT. The AIR building provides a home for Superfast Cornwall Labs and hosted feasibility studies by local SMEs to explore the value of SFBB to the Creative Industries in Cornwall.

To facilitate the role of the AIR building as a place for knowledge exchange we created the AIR Studio. Based on the Pervasive Media Studio in Bristol co-founded by Stenton and the team at Watershed, the AIR Studio provides a place for external residencies and workshops. The aim is to increase the access to the university by SMEs, local government, public sector agencies, visiting researchers and entrepreneurs. Its open plan format and regular open events support people in testing their ideas. Residents have included SMEs, artists, funding organisations, local government, visiting academics and pre-incubation start-ups. Results have included increased research collaborations, creative industry engagement, funding proposal submissions and start-ups. AIR is also an incubator of strategic new research and innovation initiatives such as the development of digital games to support the emergence of a new industrial sector in Cornwall underpinned by high quality research, taught programmes and business incubation via Alacrity Falmouth (ERDF investment in a pilot programme to create high growth digital games businesses) and other related incubation schemes and international partnerships.

More recently the University has established within AIR a Falmouth Graduate School, led by Professor Wilson, the Dean of Research and the Graduate School, to lead on the development of the cross-institutional research effort and to bring convergence to the postgraduate environment, staff research and teaching activity. An MFA programme launched in 2013 by the Graduate School provides a cross-disciplinary platform for progression and a bridge between teaching and research.

Multidisciplinary research groups have emerged during the assessment period:

Sonva is a collective of practitioners comprising music makers, writers and artists led by Dr David Prior. It concentrates on technology, the body and performance with recent projects including "On Violence", a composition integrating algorithmic composition, interactive music systems, real-time scoring and improvisation.

Articulating Space, led by Dr Misha Myers, brings together researchers across performance, art, design and media to explore new approaches to understanding, representing and renewing place, landscape and environment. As part of the AHRC-funded Unbox Fellowship, Dr Myers spent four weeks in India with Digital Green, a non-profit development organisation, and creative practitioners Saswat Mahapatra and Joshua Oliver, exploring how computer games can be used to engage urban dwellers with issues facing farmers in India, promoting awareness and empathy.

Performance Writing, led by Jerome Fletcher (Associate Professor) brings together researchers across the disciplines of performance, writing and media. The group are leading this emerging field



and currently have a collaborative European grant with seven other institutional partners (ELMCIP) to understand the dynamics of creative communities of practitioners in a globalised digital network (<a href="https://www.elmcip.net">www.elmcip.net</a>).

In addition a number of cross-cutting, and often overlapping, sub-themes sit across the whole unit, supporting collaborations in the overriding research domains of Digital Economy and Sustainable Design and bringing together researchers from a diverse range of disciplines and academic traditions. These are: Applied Narratives in a Digital World; The Impact of Technology on Creative Practice; Space and Place – Creative Practice in Landscape and Community.

To summarise, since our last submission to the RAE in 2008 we have increased:

- the number of research active, submitted staff by 81% (FTE);
- · research groups across disciplines;
- our PhD student body by 79%;
- the overall research income by 308% and RCUK income by 1,841%;
- engagements with businesses for this unit, reporting a GVA of £133m.

## 2013-2020 Research Strategy

In line with the university strategic plan the research objectives of this unit are

- Achieve Research Degree Awarding Powers (RDAP) by 2016.
- Increase staff capacity to research and innovate
- Increase our research performance impact.
- Establish AIR as Cornwall's centre for the Creative Industries by increasing the number of research partnerships and interdisciplinary collaborations.
- Manage intellectual property to facilitate new start-ups and encourage staffand student entrepreneurship
- Support the growth of high value and high growth businesses in Cornwall

Specifically, we will invest in establishing a research competence in Digital Games to draw together our skills in storytelling, animation, film-making, music and sound design, recruiting creative computing and games design skills. To this end we have appointed Professor Krzywinska to lead the development of a BA in Digital Games, which will launch in 2014 and have recently secured €2.5m ERA funding to establish a Digital Games ecosystem within Cornwall through an additional Chair and team for 6 Research Fellows. We have also secured £1.5m of ERDF funding to establish an Alacrity Foundation at Falmouth. The foundation operates a unique model of start-up funding that poses challenges to graduates recruited specifically to develop solutions to them. If successful, the foundation seed-funds graduates as start-ups on their completion of a Masters in Entrepreneurship.

2014 will also be the first year of our AHRC block grants (see Students). We will build on the progress we have made with AIR and the PC to encourage research collaborations and knowledge exchange and to make the university increasingly accessible to the cultural and creative industries of Cornwall and beyond. We will continue to engage the Local Enterprise Partnership and through membership, consultancy and research to influence local policy in the deployment of the next round of convergence funding to enable a high growth economy in the county.

# c. People, including:

#### i. Staffing strategy and staff development

Since RAE 2008, where 32.5% of staff were submitted from across the institution and a headcount of 17 (14.43 FTE) from subjects covered by this Unit of Assessment, considerable investment has been made in developing researchers, alongside recruiting new people to support the research effort. In addition to building up staff engagement with PGR supervision and processes, RIO and the Graduate School have developed staff engagement with research both within AIR and across the University more widely. The effects of this can be seen in a larger submission in terms of



research active staff to this exercise (a FTE increase of 81%).

At the heart of this growth has been a two-pronged approach: a recruitment strategy that has sought to appoint more research-active staff at all levels of the institution and a range of policies aimed at developing and supporting all staff, but Early Career Researchers in particular (ECRs comprise 31% of this unit's FTE submission).

#### Recruitment

The merger of the two institutions in 2008 and the subsequent relocation of large parts of this unit in 2010 inevitably led to some disruption in staffing and the departure of some who had been central to the submission to the RAE in 2008. However, the unit has made a number of senior appointments and internal promotions that have resulted in an enlarged professoriate, including appointments from industry (Stenton and Whelan), from other research-intensive universities (Allsopp, Krsywinska, and Gough) and of established scholars with research management experience (Wilson and Moore). This has also enabled the unit to broaden and strengthen its expertise across the disciplines to include pervasive media, digital games, storytelling and theatre history, for example) and to build on its established expertise in contemporary performance practice, especially through the appointment of Gough and the relocation of the Centre for Performance Research from Aberystwyth to Falmouth in 2013.

In addition there has been a distinct effort to recruit new staff, including early career researchers, who are already demonstrably research-active and have PhDs (for example Arnold, Llinares, Reuben and Rofe) and this has had a transformational effect on the wider research culture, given that arts institutions historically have a lower level of staff with PhDs. This has resulted in significantly increased research capacity across the unit and in specific media-related areas where Arnold and Llinares are among those appointed to newly-created posts.

#### Staff Development

The institution has implemented an active policy of supporting staff development in research with a particular focus on Early Career Researchers, from which the unit has benefitted. The Unit has a large professoriate consisting of seven full professors and two associate professors and the formation of the Graduate School has enabled them to come together to provide effective mentoring to a number of newly appointed staff and recently qualified PhDs (for example, Reeder and Lamb). In addition the Graduate School works with the Research and Innovation Office to provide a Researcher Development Programme and also a Research Investment Scheme (QR funding) with a specific highlight to support initiatives from ECRs. Further QR monies are invested in a doctoral track programme for staff to enable staff to register for PhDs either at Falmouth or at other institutions.

More recently, since the development of the estate on the shared Penryn campus with the opening of the Academy for Innovation and Research, the Performance Centre and the Exchange, the University has invested money in establishing the campus as an international conference venue, by underwriting a range of such events. There have been four major events in the past twelve months alone, such as *Performing Objects* (exploring object-oriented ontologies in the field of performance), *AIR Pressure* (arts and the environment), *FASCINATE* (art and technology, see <a href="http://www.fascinateconference.com/video/">http://www.fascinateconference.com/video/</a>) and *Malady and Mortality* (on art and medicine). These have attracted an international audience to the University, and given a number of ECRs the opportunity to present peer-reviewed papers, while the regular series of research talks – "Research Bites" – offers an opportunity for staff to share their current activities in a supportive and interdisciplinary forum. 'Open Fridays', part of the AIR Studio programme, allow researchers to share their research informally with members of the business community and other external agencies.

Amongst senior research staff, the increased level of activity has resulted in a number of prestigious awards and accolades. For example, Prior won the PRS Foundation New Music Award in 2010 for *Organ of Corti* and Wilson was appointed a Fellow of the Institute of Mental Health for his work on the AHRC-funded project 'Creative Practice as Mutual Recovery', supported by a large



grant under the Connected Communities programme.

#### Other staff

Whilst there are no Category C staff submitted to this assessment, the Unit benefits from a Visiting Professorship programme, whereby VPs regularly contribute to research events and have included Michael Grandage, Debroah Levy, Siobhan Davies, Emily Bell and Simon Armitage. In addition the AIR Studio Residency Scheme embodies a policy of access, which allows a flow-through of people from industry, the arts sector and other universities (for example, Matt Walsh from Visual Persistence, Nema Hart from Arts Council England and Karen Le Rossignol from Deakin University, Australia) which helps enrich the collaborative environment.

# Equal Opportunities

Research policies ensure that equal opportunities and research integrity are enabled at every point, as part of the University's approach to good research governance. In conjunction with HEFCE's Concordat to support research integrity, an audit of University procedures was undertaken during 2012-13. Specific University policies relating directly and indirectly to the Concordat were in place in the following areas:

- Guidelines on Good Research Practice
- Procedures for Dealing with Allegations of Misconduct in Research
- Guidance and Procedures on Research Ethics Approvals
- Constitution and terms of reference for the Research & Innovation Committee, Research Degrees Committee and Research Ethics Committee
- University's Health and Safety Policy
- University's Equality and Diversity Framework
- University's Financial Regulations

All existing policies and procedures have been cross-checked under the remit of the Research & Innovation Committee. To ensure that research integrity becomes part of core researcher development, Concordat and related University policies are referenced during all aspects of research training and development and sign-off scripts introduced for University authorisation of any research bids.

#### ii. Research students

PhD students are accommodated in the AIR building and have access to the campus facilities of our Performance Centre, Media Centre, and Design Centre. As residents of the AIR Studio, students work alongside external residents from commercial and cultural organisations, artists, research staff and RIO and have opportunities to work on live projects with them, as well as participating in networking events run throughout the academic year. The formation of the Graduate School has also brought together staff and students involved in the MAs, the MFA and research degrees at the University into an integrated environment. In a 2012 Institutional Review, the QAA report on Falmouth commended our research culture reflecting the progress we had made over the previous four years and the environment we had established to support our PhD programme post-merger with Dartington College.

From 2008-13 PhD student numbers in this UoA increased from 24 to 43. The cumulative total for doctoral completions grew by 51%. We have put in place a PhD programme with our partners at UAL that delivers training and development opportunities through our own Research Skills Development modules and UALs Research Networking events. Over the period of assessment we have worked with UAL to bring most of our PhD programme in-house in preparation for our RDAP application in 2014. Our research student numbers have benefitted from two rounds of ESF support providing 11 bursaries across this UoA. These students have a Director of Studies from Falmouth, a second supervisor from Plymouth or Exeter and a third from an SME in Cornwall. This provides a good environment for cross-disciplinary research relevant to the strategic directions of the creative and cultural industries. In addition the scheme helps provide a cohort feel to the PhD community, which is increased by our monthly research skills programme, which prepares students for the milestones and assessment points during a PhD. As part of the same ESF programme staff



members from Falmouth are second supervisors on PhDs in the same scheme at Exeter and Plymouth. The ESF-supported PhD programme will restart in an expanded form in the new EU structural funds programme starting in 2014.Building on this experience Falmouth, Plymouth and UWE put a successful bid in 2013 to the AHRC to secure a BGP2 award for 33 PhDs between the three universities.

PhD students are encouraged to present their work at UAL Research Network events, at postgraduate conferences and AIR Studio Open Friday seminars. Each research student has a budget for conference attendance and materials, sometimes supplemented through successful applications ACE and HLF for specific projects.

## d. Income, infrastructure and facilities

# Income and Strategies for Generating Income

The unit has made significant progress in generating external research income over the period of the assessment and now regularly wins competitive research funding from a variety of sources, including RCUK, NESTA, Arts Council England and the European Commission (FP7 and ESF). Furthermore, the unit is generating larger research grants than previously (ASPECT; Creative Practice as Mutual Recovery; Vconect; ELMCIP) and this is allowing for additional investment in infrastructure, such as the employment of research assistants and fellows over prolonged periods. In addition, the unit has been successful in leveraging funding from Superfast Cornwall and BT to support projects within the sphere of the Digital Economy (for example, University of the Village: Phase 2 [Wilson] and E-services on Demand (Assisted Living) for Care Homes [Moore]). We have also secured Technology Strategy Board funding from their Internet of Things programme for IoY-Bay (Moore) for a collaborative project with Westminster City Council, EDF, IBM and SH&BA.

The Professoriate is key to generating additional research income both as senior researchers and in their leadership roles within departments and across the University. The Researcher Development Programme includes sessions on the funding landscape; strategies for building research partnerships; and writing research bids/research design. The University has increasing engagement with RCUK through membership of the Peer Review Colleges, funding panels and advisory boards. The University also recently hosted a meeting of the RCUK Digital Economy Programme Advisory Board (June 2013). The R&I investment schemes, which distributes QR funding amongst members of the unit, also mirrors RCUK application processes so that there is support, peer review and feedback mechanisms in place to support staff.

## Infrastructure and Facilities

In terms of infrastructure and facilities, Falmouth's commitment to research is evidenced by the £9 million Academy for Innovation and Research. In addition to being the home for new appointments to further research activity, the AIR Studio is a venue where the external community can meet up with and work alongside research staff and students and operates on a number of levels. These include "Open Friday" events where the Academy is open to businesses and other members of the public, and the Studio also provides a home for temporary residents engaged in research, business, technology and art practice (for example, Chris Chapman of Headcastlab; Dr Leanne Townsend, University of Aberdeen; Becca Gill and Jay Kerry of immersive performance company Mercurial Wrestler; Richard Slaney of The Philharmonia Orchestra). A new Falmouth preincubation spin-out in residence is Stream TV. Residents are expected to share knowledge and skills with other studio residents, talk about their projects and promote the studio to encourage future participation.

In addition research facilities are to be found in the new Performance Centre, which houses courses in Theatre, Music and Choreography and is home to many of the staff contributing to this research round, providing a locus for cross-discipline research and teaching in the area of Performance. The spaces provided as part of the £19 million investment which opened in 2010 include 700 m<sup>2</sup> of fully sprung Harlequin dance floors, eleven high-specification performance and rehearsal studios, twelve practice rooms, and a 200-capacity flexible theatre space. While being



used for students as part of teaching and learning, as well as for regular public events that take place at the Centre, these facilities have been used by businesses and external companies such as Kneehigh and Miracle which in turn feed partners into research projects such as Vconect. The PC is also home to the Disklavier, a networked piano, which can be played remotely. In collaboration with Yamaha, the PC hosted in January 2013 a performance by Elton John which was streamed live from the United States (<a href="http://www.falmouth.ac.uk/content/historic-live-yamaha-125th-anniversary-concert-elton-john-held-falmouth-university">http://www.falmouth.ac.uk/content/historic-live-yamaha-125th-anniversary-concert-elton-john-held-falmouth-university</a>) . The disklavier is also used extensively by Falmouth music researchers such as Federico Reuben.

The Motion Capture (MoCap) sponsored by Centoid3D brings together animation, and performance and is used by staff students and external partners (e.g. international solo violinist Jennifer Koh and start-up Headcastlab).

Researchers and students also have access to facilities in the Design Centre with bespoke workshops for woods, metals, plastics, fine metals, ceramics, glass, plaster and textiles, as well as the Markernow digital fabrication laboratory, part of the international Fablab network. This allows for the rapid application development of prototype products and one-off artworks.

The recent investment in the library facilities on the shared Penryn campus further supports research activity. The library curates a number of important research archives, including the Cornish Performance Archive; the Kneehigh Theatre Archive; the Nick Darke Archive; and the Patrick Gale Archive. Falmouth has also recently established a University Research Repository (FURR) on the e-prints platform.

#### Research Governance

The University, as part of its mechanism for maintaining quality, makes use of committees to oversee all aspects of its research effort. The progress of its PGR students, working closely with its validating partner, UAL, is a sub-committee of the Research and Innovation Committee which monitors all aspects of research and reports to Academic Board. The Research and Innovation Committee, chaired by the PVC for Research and Innovation, promotes and facilitates research activities within the context of the University Research and Innovation Strategic Plan and oversees the academic standards and quality of research programmes and the development of research and innovation strategies and business plans in academic units.

Falmouth also established a Research Ethics Committee which meets termly and which has responsibility for oversight of research ethics reviews across the University, producing guidance for staff and establishing procedures and criteria for assessing levels of risk in research projects. In addition, the Research Ethics Committee monitors any new statutory or professional responsibility that may affect its work and designs and delivers awareness-raising activities and training for staff. It reports annually to the Research and Innovation Committee.

#### Environmental Data

The environmental data shows a significant (88%) increase in the FTE number of staff being submitted to this assessment exercise as compared to RAE 2008. Given the initial disruption to the staffing base in this unit following the merger with and relocation of Dartington College of Arts (approximately half of the academic staff from Dartington chose not to relocate), this growth is almost entirely due to investments in research that have been made since 2010 and the impact of policies to support ECRs and the appointment of new senior research staff. A similar story is to be told in regards PhD completions during the census period. Following a rush of completions around the time of merger (2008), there followed a quieter period, as supervisors

of completions around the time of merger (2008), there followed a quieter period, as supervisors moved on, taking their students with them. Following completion of the merger process and relocation, along with the appointment of new senior research staff the numbers of PhD completions have now completely recovered and the success of winning ESF-funded studentships and BGP2 will ensure that this trend continues in a sustainable fashion in the coming years.

During the period of assessment the entire external research income for the unit has been generated during the second half of the census period. This reflects the period of merger of



Dartington into Falmouth, the relocation of a number of researchers from the unit (2008-10) and the subsequent arrival of new research-active staff at all levels from 2010. It also reflects the consolidation and growth of the Professoriate since 2010 and a fast-growing research culture on the back of the investment in AIR and the prioritisation of research in the University strategy.

# e. Collaboration and contribution to the discipline or research base

## Interdisciplinary Research

The advantages of the shared campus with the University of Exeter has in itself led to collaborative explorations and the development of shared research projects, both in terms of shared PhD studentships and a major bid with NERC that is being undertaken with the Environment and Sustainability Institute. Other examples of significant interdisciplinary research projects include:

Vconect is a €5m FP7 project, aiming to provide high-quality experiences for groups connecting over video links. Falmouth is leading the work with computer scientists and network and signal processing researchers to explore the creation of telepresence during remote performance. The partners are Goldsmiths, BT, Alcatel, Portuguese Telecom, Fraunhofer, Joanneum, CWI and Eurescom.

'Creative Practice as Mutual Recovery' is a £1.5m project funded under the AHRC's Connected Communities programme. It specifically looks at the potential for creative arts interventions within the context of mental health episodes to support the mutual recovery of service-user, service professional and carer. Falmouth is leading on a work package ('Digital Dialogues') that explores the use of new forms of digital storytelling, in collaboration with the Peninsula Medical School and StoryWorks.

'The Rural Connective' is an AHRC-commissioned project under the Connected Communities Programme, exploring the capacity of Next Generation Broadband to unlock the creative capital of rural communities, in collaboration with BT and the dot.rural Digital Economy Hub based at the University of Aberdeen.

ASPECT is an AHRC-funded project exploring the repositioning of the public discussion around climate change into a narrative framework to increase levels of public engagement. The project is a collaboration with USW, an SME (White Loop), and a Whitehall department (the Department of Energy and Climate Change).

## Other examples of Collaboration

Several staff are also engaged in collaboration with practitioners within the discipline, such as Kruse's work with the Old Vic, Kemp's work with WildWorks and Whelan's role as a core member of Lone Twin.

#### Conferences, seminars, etc

Staff are regular contributors to international conferences and many have contributed as invited presenters and keynote speakers. Furthermore, Allsopp, Gough, Stenton and Wilson all serve as members of editorial boards for academic journals and *Performance Research* has its home at the institution, under the stewardship of Allsopp. Many staff contribute to peer review for funding bodies such as AHRC (Myers, Stenton, Whittaker and Wilson); EPSRC (Stenton and Wilson); NESTA (Stenton and Wilson); TSB (Stenton); the IRCHSS (Wilson) and the Scottish Funding Council (Wilson). Stenton served on the Programme Advisory Group for the AHRC's Beyond Text programme, whilst Wilson sits on the Programme Advisory Boards for the Digital Economy Programme (EPSRC), Connected Communities (AHRC) and Digital Transformations (AHRC) and is a member of the AHRC's Strategic Advisory Group. Staff contributions to scholarly societies and associations include Krzywinska's role as founding member and Chair of the Digital Games Research Association and Wilson's role as a judge for the 2012 Theatre Book Prize.

In addition to the Vice-Chancellor's membership of the Cornwall and Isles of Scilly Local Enterprise Partnership, Falmouth also enjoys representation on the LEP Innovation Board; the Cultural and



Creative Reference Group (LEP Sub-Group); the Smart Cornwall Steering Group (LEP Sub-Group); the e-health and Well-being Stakeholder Group (LEP Sub-Group); the IMechE Mechatronics Forum, the Mechatronics Informatics and Control Group, Smart Cornwall steering group, and the Superfast Broadband Strategy Board.