

<p>Institution: University of Westminster</p>
<p>Unit of Assessment: UoA 16; Architecture, Built Environment and Planning</p>
<p>a. Overview</p> <p>This Unit of Assessment (the Unit), based in the Faculty of Architecture and the Built Environment (FABE), has made substantial research contributions and insights to a wide range of disciplines, on the spectrum from applied and policy-related research to theoretical advances. Developments (described herein) over the past five years have enhanced the breadth and depth of research outputs and funding and created a rich and supportive research environment which is sustainable for the future. Since 2008, the University has strengthened institutional support for research through an enlarged Research Office, the Research and Enterprise Service (RES) and the appointment of Faculty-based Research Development Officers (RDOs).</p> <p>At faculty level, the Unit focuses research activity into five subject-based centres: Architecture; Property and Construction; Tourism; Transport; and Urban Studies. In addition there are four cross-cutting clusters in order to promote inter-disciplinary research discussed in section b. The number and quality of research outputs has greatly increased (see REF2) and funded research has led to substantial impact in a variety of research and policy communities (see REFs 3a and 3b). In addition, targets for the number, quality and completion rates of research students have been achieved. The Faculty Plan sets out key research targets which are reviewed and updated on an annual basis.</p>
<p>b. Research strategy</p> <p>For the period 2008-13, the Faculty identified the following priorities: to sustain and expand a strong research culture; to increase external research funding particularly from research councils and international sources; to extend existing networks and work in collaboration; to enhance the quality of outputs; and to maximise our capability and expertise in applied research extending long-established links with policy communities, professional bodies and government agencies in London, the UK and world-wide.</p> <p>The Unit has made substantial progress in promoting these objectives. It receives £394,811 p.a. (£427,000 in 2008-09) in QR funding and has applied this to enable staff to carry out and write up research; it is allocated on a departmental basis and progress towards agreed objectives is monitored by the Faculty Executive Group and Faculty Research Committee. Research activity is also integral to the annual system of staff appraisal. The research culture is now on a firm footing and is evident through the centres and clusters identified herein, regular research seminars series, research students have doubled in number and are of a significantly higher quality than in 2007, and an increase in high quality research publications and other artefacts from 175 in 2007 to 220 now. At regular intervals, small grants are allocated to staff on a competitive basis in order to complete projects or to launch new research interests and a system of peer review and mentoring has been introduced in order to improve the quantity and quality of research bids and outputs. Staff are encouraged to attend research-related conferences and funding is made available on a competitive basis. New networks and research contacts have been established in the UK, Europe and world-wide through the appointment of Visiting Research Fellows and by undertaking joint bids.</p> <p>The Unit is made up of five subject-based research centres and four research clusters. The research centres develop research in depth in, for example, Experimental Practice in Architecture, city and metropolitan tourism in the Centre for Tourism and green logistics in the Centre for Transport Studies. Inter-disciplinary research has been promoted through the research clusters which have successfully identified innovative approaches while drawing on the research strengths and track record of staff.</p> <p>The results of RAE 2008 led to a substantial review of the organisation of research in the University and Faculty which resulted in a set of clear targets for the REF 2014. These were:</p>

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- Organisational changes: clearly defined subject groups and clusters to reflect inter-disciplinary interests Increase in number of research active staff: RAE funding used to create research time and to fund post-doc fellowships and to provide fee waivers and bursaries for research students; a strong emphasis on recruiting staff with research expertise and supporting early career researchers; new support mechanisms and mentoring for preparing research bids, enhancing impact and delivering high quality outputs;
- Providing additional resources to staff to publish research outputs such as journal articles and books: These increased by up to +30% on 2007 base;
- Support mechanisms such as the RDOs resulted in additional research income of £4.1m generated since 2008, including new, competitive funding sources such as AHRC, ESRC, Leverhulme Trust, Nirman Foundation and the Volvo Foundation;
- New accommodation was provided for research students and a series of targeted recruitment rounds resulted in an increase in the number of research students rising from 2001-07 38 full-time and 52 part-time to 22 full-time and 14 part-time in 20013-14;
- The University's Professorial Committee made a series of appointments in the Unit in recognition of personal research records and achievements (Readers - **Barber, Bold, Gruneberg, Graham, Griffiths, and Smith**. Professors – **Maitland, Bremner, Dernie**);
- The appointment of 6 Visiting Professors and 13 Visiting Research Fellows have been made since 2008 where individuals have been identified who can offer advice and support in key research areas;
- The cluster groups were set up in 2010 and have proved highly successful in engaging staff from different disciplines, promoting seminar series and attracting additional funding.

The Unit's strategy for the period 2014-19 are to:

- Increase the proportion of research-active staff to at least 60% of those on 0.5 fte or more and increase the number of research students to 60 by 2019;
- Develop strong international research links with HEIs in Europe and world-wide making full use of the University Offices in India and China and Westminster International University, Tashkent;
- Expand the role of the research clusters and to explore new funding opportunities in target areas: Architecture; Tourism; Transport and sustainable planning and development. The latter will be developed after plans for the transfer of 10 research staff from the Policy Studies Institute to the Faculty have been finalised in 2014;
- Expand research income to at least £950,000 p.a.

The Faculty Plan is the main planning mechanism for setting future priorities and is rolled forward for a period of three years on an annual basis.

c. People, including:

The Faculty operates a strategic policy towards staff recruitment. Appointments are made from those with a good research record and a commitment towards developing personal and disciplinary interests. In some instances, staff are appointed with recent professional experience in order to ensure our teaching programmes remain up to date and that the expectations of the professional institutes are met for accreditation purposes. All recent appointments have been on permanent contracts although part-time visiting lecturers are also appointed to fill gaps in teaching provision or

to provide specialist inputs to particular modules. Researchers are recruited in order to fulfil the requirements of an externally funded research contract.

The current demographics of the staff cohort indicate that approximately 52% are over the age of 50 while 18% are below the age of 40. This bias towards the older age groups has prompted the Unit to initiate a succession strategy that encourages and supports early career researchers and to ensure that effective mentoring policies are in place to draw on the experience of those with greater research experience. Staff appraisal procedures and annual workload allocations ensure that staff with research potential are encouraged to publish and submit bids with the support of their mentors, research centres and clusters. All staff appointments prioritise those who are younger and have a proven research record.

The University encourages research-active staff to apply for promotion to Reader where up to half their contracted time is given over to research. Since 2008 eight existing staff have been promoted to Reader and these posts have proved very effective in developing existing areas of expertise, such as in tourism and architecture. In 2009 **Maitland** was made Professor of Tourism in recognition of his substantial research record. In addition, one new Lecturer and 14 Senior Lecturer appointments have been made since 2008. Of these, 10 are research-active.

Since 2008 there has been a limited turnover of staff including the departure of two Professors of Architecture and a Professor of Transport. In January 2012 Professor **Till** was appointed Pro-Vice Chancellor, University of the Arts London. Much of the work on his €1 million SCIBE HERA project on 'Scarcity and creativity in the built environment' with the Technical University of Vienna and the Oslo School of Architecture and Design continues at Westminster. **Till** had also been awarded the RIBA President's Award for Research three times in 2007, 2009, and 2011. We were fortunate in being able to recruit Professor David **Dernie** as Dean and Lindsay **Bremner**, as a Professor of Architecture. Professor Murray **Fraser** also an RIBA prize-winner, had an excellent publishing record and developed valuable research contacts in the USA and the Middle East moved to UCL in 2011.

This Unit is fully committed to the University's equal opportunities policy in order not to disadvantage any member of staff who wishes to engage in staff and/or the supervision of research students. New and ECR staff are encouraged to join one of the subject and cluster groups in order to receive mentoring and guidance. Heads of Department ensure that, where resources permit, they have a reduced teaching load in order to engage in research. The University published its 'Code of Practice for the Selection and Submission of Staff to REF 2014' (2012) and all Unit co-ordinators have received training in equal opportunities processes.

Resources put into career development have proved highly effective. Of three post-doctoral fellowship posts created in 2007 for three years each, one was appointed to a permanent post at the University of Surrey and two have been awarded fellowships since 2008, all in the Faculty. Davide **Deriu** was awarded an AHRC Early Career Fellowship from October 2011 to July 2012 in order to study urbanisation in Turkey. Krystallia **Kamvasinou** (also awarded a PhD in this Unit) received a Fellowship from the Leverhulme Trust to research 'Interim spaces and creative use' for a year from September 2012. In addition, Josie **Kane** was awarded a British Academy post-doctoral research fellowship from 2009.

The Faculty operates a number of policies to ensure that quality and integrity are maintained in all research-related activities. The Faculty Research Director is the ethics advisor and provides guidance to staff on all ethics issues. The main source of guidance is the University's 'Code of practice governing the ethical conduct of research' (2012). All research activity is divided into three classes and research activity falling into classes 2 and 3 is normally referred to the University Research Ethics Committee. The Faculty provides continuous support to researchers at all levels through a system of mentoring so that more experienced researchers and authors provide guidance, support and feedback to less experienced colleagues on research applications and drafts for publication. In addition, the Faculty runs a series of training programmes on different aspects of bidding for funding, writing high quality research proposals and getting published, and dissemination, with the support of the Research Development Officer. Staff are committed to fostering research collaborations and international links, contributing to professional institutes and to engaging with local communities and industry (for example, a KTP with The Means LLP).

This Unit has 19 staff in fractional posts and many of these also work in architectural practices and carry out other forms of consultancy. Others provide unpaid advice and assistance to third sector organisations, resulting in a substantial interchange between practice, research and

academia.

i. Research Students

The Graduate School provides a focus for research students across the University and oversees marketing, scholarships, recruitment, training, transfers and awards. The Faculty currently has 22 full-time and 14 part-time (in 2013-14, with an approximately 50:50 gender split) research students relating to this Unit. Of these 65% receive scholarships from research councils or overseas governments; most part-time students are self-funding. Careful attention is paid to ensuring that research students are fully integrated into both their research clusters or groups and the Faculty as a whole. Students share a room with access to computers and this in itself fosters informal exchange between those working in different disciplines. The University has a clearly prescribed set of procedures for recruitment, supervision, registration, monitoring performance on an annual basis, approving transfers between M.Phil. and PhD. and for examination arrangements.

The Graduate School has established a number of stages to ensure the timely delivery of the final thesis. On several occasions the Unit has advertised for students in targeted research areas and on occasions fee waivers and/or scholarships are offered. These have tended to attract very well qualified international students. Each student is then allocated to a Director of Studies and first supervisor with expertise in his/her field. After enrolment, students prepare a detail research proposal (6 months) which is approved by an internal assessor. After 18 months a transfer interview takes place and at this stage a progress report is reviewed by an assessor after a personal interview. Examination of the thesis is carried out by an external and internal examiner.

The Graduate School provides a forum for all research students and offers an extensive Doctoral Researcher Development Programme (DRDP) which is delivered at both University and Faculty levels. This reflects the University's application of Vitae's Concordat. The DRDP covers advanced research methods and information retrieval skills training, use of relevant software (e.g. SPSS, NVIVO), ethics, as well as by presentations on individual topics. The full range of IT and library facilities are available to research students on campus and supervisors work closely with subject librarians to ensure that appropriate on-line resources, books and journals are available. Research students are expected to undertake a training course in teaching and they can also take sessions on English for academic purposes. The University offers a module in 'Supervising Research Students' which runs for one academic year, and which all those new to the supervision of research students are encouraged to take. Completion rates have increased gradually from 2 awards in 2008-09, 3 in '09-10, 5 in '10-11, 5 in '11-12, and 8 in '12-13.

Those achieving the award have an excellent record for gaining employment or promotion in the UK and/or their country of origin (no known PhD graduates since 2008 are unemployed). Students attend sessions on employment opportunities before completion. At least three research students have secured tenured posts in the Faculty, two in Tourism and one in Planning. Our expertise in running doctoral programmes has also been acknowledged by funding bodies. We have secured one full-time AHRC PhD Studentship in design or practice based architectural research, starting in September 2013. We are also part of a consortium of 7 institutions awarded an EU grant of €4m under the Marie Curie International Training Network. Over four years the ADAPTr project will award 33 doctoral research fellowships to individuals engaged in 'venturous practice' including architecture, art and design to extend the fundamental knowledge base of their disciplines through an innovative and creative network of events, training and research.

Research students are recruited and managed by two Directors of Research Students (**Roberts, Manzi**), who themselves are research-active, and are encouraged to play a full part internally and externally by attending conferences and related events. Directors of Studies are required to submit an annual report on each student which is reviewed by the Faculty Research Committee before submission to the Graduate School. The latter also surveys all students annually to collect additional feedback on supervision, management and facilities from the students' perspective.

d. Income, infrastructure and facilities

Research funding:

This Unit has a long and successful record of securing research income from UK research councils, the European Union, central government, government agencies, industry and charitable sources raising **£4.1m** in the REF period. Research income has ranged from £1.02m in '08-09, declined to £545k in '11-12 but then is on a rising curve to £789k in '12-13. In the REF period £1.08m was generated from UK research councils and approximately £1m from EU sources.

The support infrastructure is provided by the Research and Enterprise Service (RES) which is the central unit which co-ordinates research activity and from October 2009 a Research Development Officer (RDO) was appointed to be located in each Faculty. The RDO works closely with the Dean and Faculty Research Director in developing the research strategy, identifying and facilitating the preparation of bids, tenders and research proposals and in monitoring research income.

Income has fluctuated over the past 5 years reflecting the changing economic climate and commissioning strategies of major public sector organisations in a period of austerity. However, the Unit is now sustaining a steady income of about £800,000 p.a. from a variety of industry, government and charitable sources and has the infrastructure in place to sustain this.

The Unit has sought new sources of funding (such as UK and international charitable trusts) as traditional UK sources have declined, leading to a more entrepreneurial approach. A series of linked funding projects over the past decade has enabled the Unit to remain at the forefront of academic (demonstrated by outputs) and policy-related (see members of boards and committees below) research particularly into air transport, logistics, cultural and construction history, and urban and metropolitan policy and management. Expanding collaborative arrangements have secured new funding sources through joint applications to the EU and the Volvo Foundation.

Academic staff wishing to submit a research proposal worth more than £100,000 are invited to discuss it with a group of experienced researchers and later drafts are reviewed by at least one mentor, as well as the RDO. Final bid documents are signed off by the Faculty Research Director and the Dean.

Strategies for developing grant income

The Unit constantly scans for funding opportunities and monthly notifications are circulated by email by the RDO. Staff are encouraged to generate cross-disciplinary proposals within the University and with others on an international basis.

Scholarly infrastructure: The Unit has the benefit of two archives. The Archigram Archival Project (AHRC funded) enabled over 10,000 drawings and images to be scanned and made available online: (<http://archigram.westminster.ac.uk/>). The Max Lock Archive is also accessed by scholars researching planning in developing countries: (<http://www.westminster.ac.uk/research/a-z/max-lock-centre/archive>). Both have provided a useful basis exhibitions and publications and have attracted enquiries from scholars around the world.

Organisational Infrastructure: The University provides academic leadership for research through a Pro-Vice Chancellor, the Research Office and the University Research Committee. The University's research strategy sets clear objectives which in turn are integrated in Faculty Plans.

This Unit has a range of facilities suitable for research purposes, including the library, a resource centre, archives, computer suites and rooms dedicated for the use of researchers, research students and visiting scholars with pc's and appropriate software. These facilities are supported by IT staff and a Subject Librarian. The Unit intends to increase the number of research students, particularly from overseas, so long as standards are maintained. The refurbishment of the campus in 2012 has created state-of-the-art conference and seminar rooms.

In order to promote inter-disciplinary research, two clusters have been set up operating in the Faculty and two run in collaboration with other faculties. These are inter-disciplinary groups designed to provide a forum for academic staff, researchers, students and visitors to discuss research in progress, to debate issues relating to theory, policy and practice, and to prepare innovative research proposals.

1. London

This is a Faculty-wide interdisciplinary network for those who have an interest in research which relates to the social, economic and environmental aspects of London. The Group's aim is to share and develop external contacts with other HEIs, government agencies, professional groups, private practice and third sector bodies which have interests in the built environment of London. In 2011 the Group (with other academics from London universities) was designated the London and South East Branch of the Regional Studies Association (RSA) and in 2012 was funded to set up an RSA Research Network with academic partners in Paris and Berlin on *Governing metropolitan regions within a Localist Agenda*. Three pan-Europe symposia are running in 2012 and 2013 and up to six seminars are arranged each year.

Global Itineraries

This cluster draws on a mobility paradigm for thinking about global issues. It assembles research being undertaken in the Faculty into migration, diasporic cultures, tourism, travel and travel narratives and representations; technologies and infrastructures of transport and communication; transfers of policy, practice, finance, materials and knowledge; transnational networks, spaces and international relations; localities defined by overlapping connections with multiple places. It promotes discussion on methodological and theoretical frameworks for such research and investigates the ways that mobility, circulation and flow affect the built environment and the formation of built environment professionals. The cluster hosts lectures, seminars and conferences designed to foster critical understandings of topics such as the branding of capital cities, international air travel and methodologies for transnational research.

2. Centre for the Study of the Production of the Built Environment (ProBE)

ProBE is a joint research centre established in 2010 between Westminster Business School (WBS) and FABE (www.westminster.ac.uk/probe). It was founded on a programme of research and long-established contacts with academics and researchers throughout Europe, including Britain at Work 1945-95 and the European Institute for Construction Labour Research based in Brussels. It hosts symposiums, seminars and undertakes externally funded research, including the Leverhulme funded, *Constructing Post-War Britain: building workers stories 1950-70*, European Commission funded *Bricklaying qualifications, work and vocational education and training in Europe*, the *Olympic Builders Film Project* and the EU Progress funded *Retrofit Network*. Current research is focussed on the post-war development of the construction industry, vocation education and training and low energy construction.

3. International Eco-Cities Initiative (www.westminster.ac.uk/ecocities)

This was set up in 2008 as a joint research programme between the Faculty of Social Sciences at UoW, Johns Hopkins University (Baltimore) and the Smithsonian Institution (Washington DC). Initial funding came from the Nirman Foundation (Alexandria/USA), with subsequent research grant funding from ESRC, the Leverhulme Trust, and the Rockefeller Foundation. It runs the *ESRC The Governance of Eco-City Innovation* research seminar series (2011-2012); The Eco-Cities Initiative has hosted six international conferences to date, funded by the Rockefeller Foundation, with participation of academics and policy experts from 14 countries. The initiative runs a Leverhulme International Research Network including seven partner institutions from Canada, Germany, Korea, the Netherlands, the UK and USA. A partnership was also set up in 2011 with the Leibniz Institute of Ecological Urban and Regional Development (IOER, Dresden). A regular seminar series is organised around visiting academics and to disseminate research findings.

e. Collaboration and contribution to the discipline or research base

This section (together with information on outputs and research funding) demonstrates the leading role played by Unit members in developing international and interdisciplinary research, working with innovative and international research networks in all sectors, contributing to seminars, conferences and journal editorship, engaging with professional institutions and supervising, training and assessing research students. **Our academic contribution is best defined as advancing theoretical and applied research to the policy, practice and theory of architecture and related disciplines concerned with the built environment to the benefit of all stakeholders**

identified in REF 3a (section (a)). Research insights which have had a particular impact on society include: dynamic cost indexing in air transport, green logistics, architectural theory and practice, city tourism, and managing sustainable urban and metropolitan centres largely through sustained contact with a variety of agency and funding bodies over an extended period of time. A selection of individual contributions include:

Awards:

Peter **Barber** and Anthony **Boulanger** received RIBA National Awards for architecture in 2013.

Membership and advice to Boards and Committees:

Bold: Project Leader, Council of Europe's Integrated Rehabilitation Project Plan/Survey of the Architectural and Archaeological Heritage (IRPP/SAAH), 2003 ongoing.

Bremner: Convenor of the *Design Diplomacy Talk and Debates Programme* and the *Expanded Territories Colloquium* at the British Council's International Architecture and Design Showcase, Ambika P3, University of Westminster, June 29 - July 15, 2012. Member of the Scientific Committee for *Colonial and Postcolonial Urban Planning in Africa*, Institute of Geography and Spatial Planning, University of Lisbon, 5-6 September 2013.

Browne: Visiting Scholar, University Transportation Research Center, New York – June 2010 to present seminar about urban freight and design collaborative research initiatives. He was also Visiting Professor at IFSTTAR, Paris, France, in 2010 and in 2011 Visiting Professor at University of Gothenburg, Sweden, in 2011-2012. He is Chair of the Special Interest Group concerned with urban goods movement within the World Conference on Transport Research which provides a community for researchers in this topic and a lead member for the Volvo Centre of Excellence funded for 5 years (2013-18). Michael Browne is a member of the US Transportation Research Board (TRB) committee AT025 Urban Freight Transportation.

Cook: Coordinator, International Airline Working Group on delay cost management; A member of the Scientific Board, ComplexWorld Network - Single European Sky ATM Research programme's Long-Term & Innovative Research Network; A member of the Programme Committee, Single European Sky ATM Research programme's Innovative Research Workshop and Exhibition Holder, special academic grant awarded by EUROCONTROL Experimental Centre under its Innovative Studies Programme Member, Sustainable Air Traffic Management National Technical Committee.

Graham: Expert Member on the Advisory Panel for the Department for Transport's Airport Economic Regulation Review, 2008-2009.

Joss: A member of the UK-China Eco-Cities and Green Building Group; he is Chair of Vitae's Research Development Advisory Group.

Maitland: Chair of the Association of Tourism in Higher Education, 2009-12 and Chair, Association for Tourism and Leisure Education's *City and National Capitals Tourism Research Group* – an international group of around 100 academics

Roberts: UK coordinator for the Urban Stream of COST (European Concerted Research Action) Action Gender Sustainability Technology Environment – Gender STE.

White was an advisor to the House of Commons' Transport Committee enquiry into 'Competition in the Local Bus Market' (published as its Third Report, Session 2012-13)

Editorial Positions:

Aldred is on the editorial board of *Journal of Transport Geography* and is editing a special issue and set up a 25-member *London Cycling Research Group*.

Bailey is on the board of, and reviews editor for, the *Journal of Urban Regeneration and Renewal* and on the board of *Urban, Planning and Transport Research* (Gold open access)

Browne is Associate Editor of *Transport Reviews*. He is also on the editorial board of: *The Journal of International Logistics: Research and Applications*; *Supply Chain Forum*; *International Journal of Shipping and Transport Logistics*; and *Recherche Transports Sécurité*.

Deriu and **Kane** are on the board of *Architectural Histories*.

Graham is Editor-in-Chief of *Journal of Air Transport Management* and was Guest Editor of *Journal of Transportation Business and Management* Volume 1 (1), 2011.

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Joss was guest-editor, with R Kargon and A Molella, of the *Journal of Urban Technology* (20:1, 2013) special issue on pan-Asian eco-cities.

Maitland is on the boards of *Tourism Planning and Development* and *International Journal of Tourism Cities*. He was guest editor for special editions of *Current Issues in Tourism* on 'Global Change and Tourism in National Capitals' (2012) and 'Social Tourism' (2011)

Roberts is a Member of the editorial board of *Journal of Urban Design and Municipal Engineer* 2008-2011; Editor for Special Issue on Historic Cities in 2010

White is a member of editorial board of *Transport Reviews*.

Woodburn is Joint Editor in Chief of the *Journal of International Logistics: Research and Applications* from January 2013.

Refereeing:

Bailey is a reviewer for the ESRC and the Research Grants Council, Hong Kong. He referees books for Routledge, Sage, Spon, and the Manchester University Press, as well as for journals such as *Urban Studies*, *Town Planning Review*, *Planning Practice and Research*, *Land Use Policy*, *European Planning Studies* and the *Journal of Civil Society*.

Bremner is a reviewer for the *International Journal of Urban & Regional Research*, *City and Society*, *Social Identities* and *Building Research and Information* and a referee for the South African National Research Foundation and *Cities and Architectural Histories*.

Browne, Allen, Leonardi, and Woodburn review journal articles in: *Atmospheric Environment*, *Carbon Management*, *Energy & Environment*, *Energy Policy*, *Environmental Science and Pollution Research*, *International Journal of Sustainable Transportation*, *Journal of the Transportation Research Board*, *Journal of Urbanism: International Research on Placemaking and Urban Sustainability*, and *Research in Transportation Business & Management*.

Joss was appointed to the ESRC Peer Review College in 2012, and is a member of the Evaluation Panel of the Swedish Research Council's *Planning for Sustainable Development* programme.

Maitland is a member of the ESRC Peer Review College, a reviewer for the Hong Kong Research Grants Council, and for journals including *Annals of Tourism Research*, *International Journal of Tourism Research*; *Journal of Heritage Studies*; *Journal of Tourism and Cultural Change*; *Journal of Policy Research in Tourism, Leisure and Events*; *Mobilities*; *Planning Perspectives*; *Planning Theory and Practice*; *Planning Policy and Research*; *Tourism Management*, *Urban Studies*, *Urban Affairs Review*.

Wall referees for the ESRC, *Construction Management and Economics*, and *Gender, Work and Organisation*.

Examination of Doctorates:

Staff have examined at least 40 PhDs in other HEIs since 2008:

Browne 10, Bailey 7, Roberts 6, Graham 4, White 4, Bremner 3, Maitland 2, Smith 2, Joss 1, Wall 1

Roberts was invited as external assessor for progression for PhD students at the Delft Technical University in 2011.

Invited Keynotes:

Bailey: Presented keynote papers on planning in London at the School of Planning & Architecture, Delhi and Anna University, Chennai, India, October 2013.

Bremner: Filter Funnel, Global Practices in Architecture Lecture Series, University of Minnesota, November 5, 2012; Filter Funnel, Remapping Geographic Imaginaries: Pathways of Circulation and New Cognitive Regions Workshop, Radcliffe Institute for Advanced Study, Harvard University, May 18,19, 2012; Muddy Logics, Design in the Terrain of Water Conference, Penn Design, 2011; On the Move, In the Life of Cities ... Parallel Narratives of the Urban Colloquium, Harvard Graduate School of Design, 2011;

Folded Ocean, Keynote Address, AZA2010 Congress, Johannesburg, September, 2010

Graham addressed by invitation a seminar on airport benchmarking for Australian Department of Infrastructure and Transport, Canberra, 2010; keynote speaker - International Experience of

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Regulating Airports, *APAO Airport Economic Regulation Conference*, New Delhi, 2009; and Fundamentals for Airport Privatization and Concession Policies, *International Conference on Private Capital in Airports*, Sao Paulo, 2009.

Joss was invited speaker at several international conferences, including: Olympic Legacy Lecture (London, 2010); China International Eco-City Forum (Tianjin, 2010; 2011); 3rd Annual Sustainable Cities Conference (Singapore, 2011); Korean Advanced Institute of Science & Technology (2011); Seoul National University (2011); and Dresdener Planer Forum (2012).

Maitland presented: 'Cool suburbs? Exploring Outer London'. Opening Keynote: *Tourist and Cultural Itineraries: From Memory to Development*. University Laval, Quebec City from June 13 to 15, 2012. 'Researching City Tourism: New Approaches'. Keynote paper: "Campus of International Excellence", University Rovira i Virgili, Tarragona, Spain. November 2011. 'Cool Suburbs? Developing Creative Tourism in Outer London'. Keynote paper. *Paris, Tourism and Metropolisation* Université Paris 1 Panthéon Sorbonne 24-26 June 2010.

Peckham: The Architectural Profession in Europe, Trieste Architecture Festival July/August 2010; London-Trieste work of Diploma Studio 11, Trieste Architecture Festival July/August 2010 and Comunicato Stampa, March/April 2011.

Rattenbury: Contributor, Venice Biennale Finisage, November 2012; Cedric Price Symposium, Bartlett School of Architecture, UCL, London, November 2012; Symposium on architecture and graphic design at the Ecole Supérieure d'Art et Design, Valence-Grenoble. March 2012

Smith gave keynote papers at Regional Studies Association Mega-Events Conference (London, 2012), Mega-Event Think Tank (Vancouver, 2011), City Events conference (Lausanne, 2011), ESRC Round Table on Leveraging Community Engagement, Well-Being and Pride from the London 2012 Olympic and Paralympic Games (Canterbury, 2008) and Marketing Cities, Regions and Towns Conference (London, 2008).

Wall was a keynote speaker at the Women's Library Visible in Stone seminar (June 2011) and advisor to the English Heritage consultation group on under-represented groups (May 2012).

IN SUMMARY

This statement highlights our ambitious research strategy, the extent of national and international academic collaborations and the related publications (see REF 2), international conferences and sequential funding which indicates the level and breadth of achievement. Staff contribute through membership of committees and in advisory roles with seven professional institutions. Research students have grown in number and been supported financially by AHRC and the EU Marie Curie programme. All these activities have contributed towards achieving a vibrant and sustainable research environment with a demonstrable track record at London, UK, European and international levels within the wider institutional research framework. We hope these demonstrable achievements indicate the extent of progress since 2008 and the challenging but sustainable trajectory we have set ourselves for the future.