

Institution: London School of Economics and Political Science

Unit of Assessment: 32: Philosophy

a. Overview

This submission covers (i) the *Department of Philosophy, Logic and Scientific Method* (“Department”), (ii) the *Centre for Philosophy of Natural and the Social Science* (“Centre”) and (iii) the *Forum for European Philosophy* (“Forum”). We will refer to them collectively as the “LSE Philosophy Unit” (LPU). The Department provides for teaching and employs a group of leading researchers. The Centre houses thirteen research projects, runs a visitor programme, and organises research related events. The Forum runs an active public engagement programme. These units share members of staff, work in close collaboration, and are located in the same building: the Centre Director and the Forum Deputy Director (2010-13) are also members of the department; more than half of the projects in the Centre have PI’s who are members of the department; the Department, Forum and Centre organise several seminar series and public events together; the administrations of the three bodies work in close contact and as of December 2013 they will be located in a shared admin hub.

b. Research strategy

LPU is renowned for a form of philosophy that is continuous with the sciences, both natural and social. The RAE2008 identified the following strategic aims:

- (RAE-1) *New hires in fields conducive to LSE synergies.* In particular, we identified philosophy of public policy (with a particular angle on the use of evidence in policy making), political philosophy, and philosophy of the special sciences.
- (RAE-2) *Developing LSE links.* Staff would make it a priority to explore links with various centres, institutes and units in the School whose research objectives may be enriched by philosophical reflection. These institutional links should be a good breeding ground for interdisciplinary work.
- (RAE-3) *Building on existing strength.* LPU should expand its current reputation in philosophy of science, social science and economics.

These goals have since been extended in four ways:

- (EXT-1) *Broadening Collaborations.* Since we do not take philosophy to be an insular pursuit, we need to forge links not only with other units within LSE (as per the strategic aims of RAE2008), but also establish collaborations outside LSE, both nationally and internationally.
- (EXT-2) *Influence on the practice of science.* We not only practice a kind of philosophy that is informed by the sciences; we are also interested in influencing the practice of science based on philosophical insights. To this end, members of LPU engage actively with working scientists.
- (EXT-3) *Influence on policy making.* We also take an interest in the application of philosophical insights, both from the philosophy of science and moral and political philosophy, to policy making. To this end, members of LPU engage with policy makers.
- (EXT-4) *Public engagement and knowledge dissemination.* A research-active philosophy unit should have a programme of public engagement that informs interested members of the public about the work being done in LPU.

We have made substantial progress in realising these goals:

- (RAE-1) *New hires in fields conducive to LSE synergies.* Michael Otsuka and Gabriel Wollner both work in political philosophy and public policy and their recent research draws on economic theory. Wollner provides a connection with the Management Department by providing a course on Business and Organisational Ethics. Katie Steele’s research profile is centred around the application of philosophy of science to policy issues. The hires of Armin Schulz and Charlotte Werndl provide synergies in philosophy of biology. The recent hire of Bryan Roberts strengthens an already strong philosophy of physics group and complements Worrall’s expertise in philosophy of the biomedical sciences. The hire of Kristina Musholt (who is leaving us for a permanent position in the University of Magdeburg in September 2013) as a temporary research fellow added a

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competence in the philosophy of cognitive and neuroscience to the portfolio.

(RAE-2) *Developing LSE links.* See (e) below.

(RAE-3) *Building on existing strength.* We continue to expand our reputation as is evidenced in excellent published work (see REF1a/b/c), substantial research income (see (d)) and extensive collaborations and contributions (see (e)). Our research excellence is internationally recognized: Werndl received the 2011 Cushing Memorial Prize in History and Philosophy of Physics; Roberts received the 2010 Rob Clifton Memorial Book Prize in Philosophy of Physics; List received the 5th Social Choice and Welfare Prize (jointly with Dietrich who was a Lachmann Fellow in LPU). List was also named as one of the top ten rising stars of British Academia, *Times Higher Education* (2007-2010). Members of LPU delivered key note addresses and invited lectures. To mention only a few: Presidential Address to the *British Society for the Philosophy of Science*, Dublin 2010 (Worrall); keynotes at *Logic, Rationality and Interaction*, Hangzhou, and *Social Ontology and Collective Agency*, Oslo (List); *Models and Decisions*, Munich (Bovens); *Priority for the Worst Off in Health*, Harvard (Voorhoeve).

(EXT-1) *Broadening Collaborations.* The Centre is LPU's prime instrument to implement this goal. It has a broad research infrastructure – see (d.ii) below – which allows LPU to offer work space to 25 visiting researchers. This resource is used to host externally funded research projects. Currently the Centre hosts thirteen such projects. Projects are interdisciplinary and often international, which allows LPU to establish collaborations globally and outside philosophy – see (e) below.

(EXT-2) *Influence on the practice of science.* Members of LPU collaborate with working scientists. Frigg, Steele and Werndl are involved in debates on confirmation of climate models and the usefulness of model forecasts. They are members of the *Climate Modelling Group* in the Centre, of the *Centre for the Analysis of Time Series* (LSE) and research associates of the *Grantham Institute for Climate Change and the Environment*. List has an on-going collaboration with prominent biologists in which they explore the relevance of social choice models to decision-making among non-human animals. Bovens has made contributions to the practice of political science by publishing extensively on measurement issues in UK, US and EU voting systems and in EU asylum policy. Worrall has been involved with the evidence based medicine movement for many years and has made important contributions to the methodology of drug testing. Makinson has influenced computer science by bringing methods of logic and set theory to computer programming. This work is reflected in multiple articles and his textbook *Set, Logic and Maths for Computing*. Musholt, whilst at LPU, was working on the suitability of fMRI brain imaging as a tool for assessing whether abuse had occurred. Redei and Roberts have published many papers in physics journals, some of them co-authored with eminent physicists, elucidating the nature of non-locality and time-reversal in fundamental physics. Schulz publishes work in evolutionary biology journals and exchanges ideas with evolutionary biologists. Bradley has long standing collaborative research projects with economists on both hypothetical reasoning and on decision making under uncertainty. Voorhoeve has an on-going collaboration with economists and psychologists on decision-making under uncertainty, and with economists and public health specialists on the evaluation of distributions of health-related well-being. Wollner taught and engaged with economists at the Indira Gandhi Institute of Development Research in Mumbai, and publishes on the taxation of securities.

(EXT-3) *Influence on policy making.* Members of LPU have exerted influence on policy in numerous ways. These are detailed in REF3a/b.

(EXT-4) *Public engagement and knowledge dissemination.* The Forum's aim is to bring philosophical thinking into the wider public and to create philosophical dialogue with the public, as well as between philosophy and other academic and intellectual disciplines. It organises around 35 events every year. About one third of these are large scale (with around 400 attendees); the others are medium size (with around 150 attendees). Events are free and open to all. The format enables audiences to engage with leading thinkers and discuss themes of profound significance. Events are recorded and made available as podcasts on the Forum's web site. Downloads have been very high, ranging from 10,000 to 65,000 per podcast. Several members of LPU also have media presence. Bovens, Bradley, Otsuka and Voorhoeve have all done *Philosophy Bites* interviews. Voorhoeve and Frigg have been interviewed for *The Forum* (BBC), Voorhoeve for *The Philosopher's Arms* (BBC, on exploitation), and Worrall and Bradley have been interviewed for the

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BBC's *In Our Time*, respectively on Popper and on game theory. Bovens has written blogs for the LSE Policies and Politics blog.

In sum, LPU has done well in realising its strategic goals for the review period and it has done so in a sustainable way. Members of the department are on permanent contracts. The research infrastructure of the Centre is secure and a steady stream of grants assures that projects will continue to flourish (more than £2m in grants for the next REF period have already been secured—see (d)).

Over the next REF period we aim to maintain all (RAE) and (EXT) goals at current levels, given the means and size of the unit, except (EXT-3)—i.e. our influence on policy-making—which we wish to strengthen. We also aim to realise the following three concrete aims, through hiring and steering the interests of current staff: (i) to expand expertise in philosophy of biology since this would round out our offerings in philosophy of science; (ii) to expand our expertise in philosophy of the biomedical sciences since this would fill a niche in the LSE and it is a fertile and timely area in which science and policy meet; (iii) to expand our expertise in the methodology of the social sciences, since it is part of our historical role and places us strategically in the LSE.

c. People, including:**i. Staffing strategy and staff development**

During the REF period, the Department hired Otsuka, Steele, Schulz, Werndl and Wollner on permanent contracts with a focus on its strategic goals. Rabinowicz has been appointed as Centennial Professorship for 2013-16 and Schokkaert as Belgian Chair in 2012-13.

To complement permanent staff and to help young scholars enter the profession, LPU hired as LSE Fellows: Catala, Curiel, Dizadji-Bahmani, Khoury, Lever, McTernan, Mahtani, Mazor, Musholt, and Smead for one to three years; as Lachmann Research Fellows: Fleurbaey, Dietrich, and Caldwell; as Postdoctoral Fellows on LSE-administered external funding: Edvardsson-Bjornberg, Hosni, Martin, Helgeson and Montuschi; and on externally administered grant-funding: Caulton, Bavetta, Schubert, Guettinger, Tal, Nishiyama, Duddy, Tremmel, Padovani, and Guettinger.

Fellows, Postdocs and Researchers have all been closely integrated into our philosophical community and, where needed, have been given advice and training. This pays dividends. LSE fellows and postdocs have gone on to further positions: Lever is Associate Professor in Geneva, Dizadji-Bahmani is Assistant Professor in the University of Southern California, McTernan is Lecturer in UCL, Musholt is a Junior Professor in Magdeburg, Smead is an Assistant Professor in Northeastern University; Curiel is on a postdoc in the University of Western Ontario, Catala was on a postdoc in the University of Louvain and is an assistant professorship in the Université de Montreal, Caulton is a postdoc in Cambridge, Martin is an Assistant Professor in Baylor University, and Edvardsson-Bjornberg is an assistant professor in the Royal Institute of Technology, Stockholm. The presence of the more senior researchers (Lachmann Fellows) led to very successful collaborations: Dietrich has co-published work with List and Bradley; and Fleurbaey has co-published with Bovens and Voorhoeve.

For all job openings we conduct well-advertised international searches (except for Otsuka, who was hired through a single-nomination procedure as part of an LSE-wide open-rank search known as “Join the Global Debate”). A committee of 4 staff members conduct the first search to compile a longlist; all staff collectively decide on a shortlist; and 5 to 6 candidates are invited on campus for an interview and a talk. Promise to produce world leading research, strong teaching and public speaking skills, and contribution to strategic goals are our overriding priorities in selection.

All LSE-wide policies regarding equality and diversity are implemented under the guidance of LSE HR. An annual calculation of workloads ensures that teaching and marking duties are roughly equally distributed.

All new academic staff attend a one-week Academic Induction Programme, which includes equality and diversity training. This induction is followed by a year-round series of interdisciplinary workshops designed to support early career staff in their teaching and research. The LSE's Teaching and Learning Centre (TLC) offers wide variety of teaching support, including teaching observations and individual coaching sessions. GTAs can and new members of staff must obtain the Postgraduate Certificate in Higher Education through TLC.

Junior members of staff are given reduced loads to ensure that they have time to consolidate their research portfolios ahead of Major Review and to perfect their teaching. Mentoring by a senior member of staff is provided to all pre-Major Review members of staff. This consists of a yearly formal meeting and informal meetings designed to provide guidance on issues such as time management, publishing strategies, grant applications and teaching performance. Junior staff meet with the Head of Department for yearly Career Development Meetings to ensure that they realise their potential.

Tenured academics have a mentor and keep attending Career Development Meetings with the Head of Department on a yearly basis in the five years after Major Review, bi-annually for other non-Professorial staff, and every three years for Professors.

The quality of research is monitored through a number of mechanisms. We monitor each other's standards in an informal and constructive manner by presenting our research plans for discussion, by reading each other's grant applications, by commenting on each other's draft papers. The LPU is an intellectual community where we test our ideas, methodologies and outcomes on one another, often leading to collaborative research. More formally, applications for external or School funding are sent to the LSE Research Division and the Research Committee for scrutiny.

The Professoriate considers the promotion of all members of staff on a yearly basis. We are guided by clear and explicit criteria laid out by the School. During the assessment period, Steele passed Major Review and was promoted to Senior Lecturer, Frigg and Voorhoeve were promoted to Reader, Redei was promoted to Reader and subsequently to Professor, and Alexander was promoted to Professor. Schulz and Werndl passed interim review and Werndl was promoted to Associate Professor. Two of these promotions were in response to prestigious outside offers.

Staff benefit from a yearly Research Fund allocation of £1000 per person. We provide our staff with a one term of sabbatical leave for every eight terms of teaching and service. We also actively encourage them to get external funding for buyouts from teaching, to take research leave and to visit other institutions. Permanent members of staff have spent sabbatical/buyout periods of at least two months in the following institutions: Harvard Center for Ethics (Voorhoeve); Princeton University Center for Human Values (List, Voorhoeve and Otsuka); Harvard Safra Center for Ethics (Wollner); DFG Cluster of Excellence, Goethe University Frankfurt (Wollner); University of Pittsburgh (Worrall); Swedish Collegium for Advanced Study (Bovens and List); University of California at Irvine (Roberts); University of Southern California (Roberts); Leverhulme Major Research Fellowship (List); Descartes Centre for the History and Philosophy of the Sciences and the Humanities, Utrecht University (Frigg), Sydney Centre for the Foundations of Science (Frigg); ANU (List as Harsanyi fellow).

Some of our staff (Bovens, Frigg, and Voorhoeve) are engaged with Business (Munich Re), the public sector (Dutch Council for Environment and Infrastructure) and transnationals (WHO). This is promoted as a model of good practice and the Centre provides seed funding which encourages targeting non-academic funding sources.

We currently have two academics on temporary AHRC research fellowships. All measures are taken to ensure that policies and practices in relation to research staff are in line with the *Concordat to Support the Career Development of Researchers*, in particular in matters of hiring and mentoring. This is closely monitored by the School's Research Staff Committee (with substantial input from LPU) through consultations with staff, surveys, and workshops for PIs.

ii. Research students

Research students are seen as an integral part of LPU's dynamic research culture and they are often engaged in research support of joint projects with members of staff. We count joint publications in *Episteme* (R. Bradley & Thompson), *European Union Politics* (Bovens & Chatkupt), *Synthese* (Frigg & Dizadji-Bahmani), *Erkenntnis* (Frigg & Dizadji-Bahmani), *EPSA Proceedings* and *Grantham Institute on Climate Change discussion paper* (Frigg & S. Bradley) and an article in a Springer volume (Frigg & S. Bradley). LPU provides a lively environment—see (e)—and a large number of visitors coming to LSE. Students are encouraged to actively engage with this environment, which offers them the possibility to work with people in the field and establish valuable connections that can serve as a springboard for an academic career.

It is crucial that students have financial security and time to work. For this reason the Department

has adopted the policy of making sure that every student is fully funded (i.e. has fees and living expenses covered). This aim is achieved by applying for scholarships inside LSE as well as outside. The department has been successful in that endeavour. In the REF period funding for 28 PhD students has been secured through School and Departmental funding (£378,423), from LSE ad hoc funding (£132,790) and from external sources (£283,833). With few exceptions, new students all come in with full scholarship funding. In the future, the funding base will be further extended: we have recently instituted an ESRC-funded MPhil/PhD in Philosophy of the Social Sciences and the LSE will increase the number of scholarships.

The Department has a well-structured PhD programme. After a strict selection process involving the assessment of files by a committee and interviews (with success rates of 5%), the department accepts 3-5 PhD new students every year. In the first year students take four taught courses while also writing a thesis outline and a first substantial chapter of the thesis. Every student has two PhD supervisors, and is invited to discuss his/her project with other members of the Department.

At the end of their first year the Department holds an upgrade meeting to which students are invited. Expectations for progress, review and upgrade from MPhil to PhD are stated in the *Regulations for Research Degrees*. Requirements take the form of (a) successful completion of first-year courses, (b) a first substantial chapter of the dissertation together with a prospective outline of the thesis (double-marked by staff other than the supervisor) and (c) a discussion with a progress panel at the end of the first year which includes academic staff other than the student's supervisors. If the student's progress is satisfactory they are upgraded; students then have a maximum of three years to complete their theses. Students' progress is monitored continuously by the department and progress is assessed at annual departmental progress meetings.

Students are encouraged to submit papers to conferences and present their work internationally. If they have a paper accepted, the School or the Department supports their conference participation financially. Over the REF period our students have given talks in many major conferences in the field (PSA, EPSA, BSPS, SAP, etc.). They are then encouraged to develop these talks into papers and submit them to journals. The aim is that students have one or two publications to their name when they get their degrees, which facilitates entry into the job market.

All of our students receive the support of the Teaching and Learning Centre which provides core transferable skills: time management, research skills, ethics, academic publishing, writing a research grant proposal, and viva preparation. Many of our GTAs take the opportunity to obtain the Postgraduate Certificate in Higher Education through TLC.

Within the Department, research students meet fortnightly to present and discuss their research in a seminar tailored for this purpose, with supervisors invited to attend. They have also developed an internal mentoring scheme from more senior to more junior students and activities of the scheme are supported by the Department. The School supports a yearly away day in which we team up with another university to discuss challenges facing aspiring professional philosophers.

All research students can access careers support through LSE Careers who employ a careers consultant specifically to work with them. A range of specialised careers support is provided including one-to-one appointments, careers seminars and web/library resources. Both academic and non-academic career paths are covered. The service remains available to students after graduation.

The Department has written a detailed document entitled 'Getting a Job as a Philosopher', which addresses the ins and outs of the Philosophy world-wide Job Market. The Doctoral Programme Director organises meetings to prepare students for the job market.

These arrangements have been successful: Over the period 2008-2013 we have had 31 students graduating (headcount, not FTE, hence the discrepancy against the REF4b). 21 of these students came in before 2006, i.e. the date when we put in place the new PhD programme with current funding arrangements. They took on average 2611 days to finish. 10 of these students came in after 2006. This is our placement record for graduates in 2008-13:

Academic jobs that are permanent, tenure-track, or with realistic chance of continuing employment: Asst Prof, American University in UAE (Dorstewitz); Lecturer, Anglia Ruskin University (Le Boutillier); Faculty, Arrupe College, Zimbabwe (Kiyimba); Asst Prof, University of Quebec at Montreal (Rossi); Asst Prof, Erasmus University Rotterdam (Heilmann); Junior Prof, Bayreuth

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University (Fumagali); Res Assoc, Li Ka Shing Inst., St. Michael's Hosp., University of Toronto (King); Asst Prof Hebrew University (Nissan); Asst Prof California State University (Dizadji-Bahmani); Adj Prof, Nanyang Bus School, Singapore (Hai Hong).

Fixed Term academic positions: Postdoc, University of Geneva (Boccardi); Res Fellow, Oxford University (Howick); Postdoc Rutgers University and Lecturer, University of Udine, Italy (Di Bucchianico); Lecturer, University of Bayreuth (Ferguson); Postdoc, University of Calgary (Autzen); Vis Lecturer, Hong Kong University (Virdi); Postdoc Munich Center for Math Phil (Bradley); Res Fellow University of Johannesburg (Peters); Part-Time Teacher, Harvard University and Lecturer, Emmanuel College (Boston) (Senchaudhuri); Leverhulme Early Career Fellow, Bristol University & REF coordinator, Cambridge University (Ainsworth); Lecturer, Cambridge University (Thompson); Guest Teacher, LSE (Morett); Korea National University of Educ (Kyoung-Eun Yang).

Non-academic jobs: Managing Dir, Ashoka (Yasgur); Researcher, One World Trust (Obrecht); Strategist, Nomura Securities (Farmakis); General Gov Counsel, Min of Finance, Slovak Rep (Polak); Consultant at KPMG (Drechsler); Customer Function (CF30), JP Morgan Securities (Autzen).

d. Income, infrastructure and facilities

The 13.5 permanent members of staff and the two to three LSE fellows (in any given year) are paid by the LSE central funds. In addition to this, LPU attracted external grants and donations totalling approximately £4,500,000 over the current REF period. This can be broken down as follows:

- (i) £2,018,000 from major funding agencies: AHRC (five), British Academy (one), ESRC (one), Leverhulme Trust (two), Nuffield Foundation (one), Templeton Foundation (one), Spencer Foundation (one).
- (ii) £712,500 from a funding agencies in personal research grants to members of LPU: European Commission (Edvarsson-Bjornberg), Jacobsen Fellowship (Caulton), British Academy (Bovens), STICERD (Bovens), STICERD (Steuer), STICERD (Voorhoeve), AHRC (Bradley), EU POR (Bavetta), DAG (Joerg Tremmel), Irish Research Council (Duddy), Swiss National Foundation (Padovani and Guettinger), Rothschild Foundation (Tal);
- (iii) £123,000 from industry and government in personal research grants to members of LPU: Munich Reinsurance (Frigg), consortium of law firms (Cronin), Japanese Ministry of Energy (Nishiyama), Council for the Environment and Infrastructure, Netherlands (Bovens);
- (iv) £175,000 in private donations to the Department;
- (v) £660,000 in Donations to the Forum;
- (vi) approximately £850,000 in PhD funding from a number of sources both internal and external to LSE: BSPS, AHRC, Commonwealth Foundation, Governments of Luxemburg and Portugal, and the LSE studentships.

Our success in securing grant-funding indicates that we are able to think creatively as a group about the intersection between philosophy, science and policy, as is evidenced, for example, in the newly starting collaboration by five LSE staff in the AHRC-funded *Managing Severe Uncertainty*. Our research culture makes this practice sustainable: We have already secured more than £2,000,000 in grants and donations for the next REF period.

LPU is located in a recently refurbished Victorian conversion right at the central square of the LSE campus. All members of the Department have a personal office. The Centre can accommodate 25 additional researchers (18 in open plan and 7 in single or double occupancy offices). This allows the Centre to be the home of 13 research projects, welcome around 25 visitors every year who stay for periods ranging from one to twelve months, and offer 'temporary shelter' (a desk and access to internet/library) to countless travelling philosophers who pass through London. LPU benefits from excellent IT support and web services in the School.

LSE gives LPU access to several large lecture theatres. The LSE Library (or the British Library of Economic and Political Science), is one of the world's top libraries in the social sciences. It has a support team which manages LSE Research Online (LSERO), i.e. the School's institutional repository which collects references and full-text of all research produced by LSE staff and makes it available free of charge to the public via the internet, increasing its visibility and use. The Library provides facilities and support for research students, including study room space, training in information and research skills, and one-to-one consultations. LPU benefits from its location with the British Library, the KCL Library, and Senate House Library within walking distance. First rate

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and extensive e-journal access through the library is paramount for research in philosophy.

As detailed under (e), our central location and excellent facilities enable us to run about 150 research-oriented and public events (seminars, workshops, and conferences) per year, initiated or enabled by the contribution of the LPU.

e. Collaboration and contribution to the discipline or research base

The department continues to maintain extensive international links in pursuit of research excellence. We only list official collaborations, i.e. ones based either on shared grants, institutional arrangements or co-authorship:

Collaborations within LSE. (i) We have strong collaborations with the *Centre for the Analysis of time Series* (CATS) and the *Grantham Research Institute* (GRI), carrying out research on the methodology of constructing and confirming climate models. Frigg is co-director of CATS; Bovens is on the steering committee of GRI; Frigg, Steele Werndl and Bovens are research associates of GRI; Bovens and Frigg had research grants from GRI and CATS respectively. A large AHRC grant for a project entitled 'Managing Severe Uncertainty' (PI Bradley) further strengthens these links because the project is carried out in collaboration with CATS and GRI. (ii) The Centre's *Evidence for Use* Project held an AHRC grant jointly with the Department of Social Policy. (iii) The Choice Group, located in the Centre, organises seminars jointly with the political theory group of the Government Department and with other departments on an occasional basis. (iv) The Centre's *Beyond Rationality* project is carried out with the Department of Social Psychology. (v) Bovens is Deputy Director of the Migration Studies Unit at LSE, is on the steering committee of LSE's Interdisciplinary Policy Group and holds a research grant from The Suntory and Toyota Institutes for Economics and Related Disciplines (STICERD) for a project on EU asylum policy. (vi) Voorhoeve is a member of the Behavioural Economics group and holds a STICERD grant for empirical research into decision-making under uncertainty; and (vi) We offer joint BSc and MSc degrees with the Departments of Economics and Government and provide a service course *Business and Organisational Ethics* to Management.

Collaborations outside LSE. The Centre hosts the following projects: (i) The *Choice Group* used an AHRC networking grant to build connections with philosophy departments of the University of Groningen, the Scuola Normale in Pisa, University of Michigan at Ann Arbor, Lund University, University of Leuven, Konstanz University, LMU in Munich and the CNRS in Paris, and with economics departments at the Norwegian School of Economics and Business Administration, Maastricht University, University of Lausanne, the HEC in Paris and the National University of Ireland at Galway. (ii) *God's Order, Man's Order and the Order of Nature* is funded by a grant from the Templeton Foundation and brings together researchers from the University of California at San Diego, University of Oxford, Georgetown University, Wheaton College, University of St Lewis, The University of Cambridge, Fuller Theological Seminary, and Theodor Schniller School (Jordan). (iii) *Voting Power and Procedures* used two Leverhulme grants to build a network involving the Universities of Warwick, Haifa, Caen and King's College London. (vi) *Beyond Rationality* has been set up with network funds from the Centre for Intelligence and Security Studies, University of Mississippi at Oxford, Mississippi and collaborates with the Centre for Conflict Resolution at Georgetown University and the Institute for Conflict Analysis and Resolution at George Mason University. (v) *Towards a Well-Ordered Science* is carried out in collaboration with the universities of Rotterdam and Durham. (vi) *Democracy, Business and Human Well-Being* is funded by an EU grant and is carried out in collaboration with the Universities of Palermo and Messina and the Banca d'Italia. (vii) *Women and the Legal Profession* is conducted in collaboration with the London Business School. (viii) LPU has organised conferences jointly with the Institute of Philosophy, School of Advanced Study of the University of London.

LPU makes a contribution to the discipline in two ways. The first contribution is institutional. Being centrally located and having access to excellent facilities, LPU takes it upon itself to host countless workshops, seminars and conferences. These include the Popper Seminar and events of the Choice Group, the Sigma Club (philosophy of physics), the British Society for the Philosophy of Science, and the International Society for the Philosophy of Chemistry. We average about 150 events per year in the LPU – 100 in the Centre, 35 in the Forum and 15 in the Department.

The second way in which LPU contributes to the discipline is via its members. Members of LPU contribute extensively to the academic community by refereeing papers for about 40 philosophy

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journals (covering all of the major journals) and about 30 interdisciplinary journals or journals in Physics, Biology, Economics or Political Science (covering many of the top journals); reviewing book manuscripts for about 20 major publishers; and refereeing proposals for many major funding agencies in the UK, Europe, the USA and Asia; and serving on programme committees for a large number of national and international conferences.

Several members do editorial work for journals and repositories, viz. *Economics and Philosophy* (Bradley and List, Editors), *Episteme* (List, Associate Editor), *Philosophy of Science* (Alexander, Associate Editor), *British Journal for the Philosophy of Science* (Frigg, Associate Editor), the *European Journal for the Philosophy of Science* (Werndl, Associate Editor), the *PhilSci-Archive* (Roberts, Managerial Editor), *Cambridge Studies in Probability, Induction, and Decision Theory* (Rabinowicz, Advisory Editor), and *Grazer Philosophische Studien* (Musholt, Guest Editor).

We have a strong presence on editorial boards: *European Journal for Philosophy of Science* (Redei); *Institute Vienna Circle Yearbooks* (Redei); *Theoria* (Bovens, Rabinowicz); *Journal of Applied Philosophy* (Bovens); *Economics and Philosophy* (Bovens, Voorhoeve, Rabinowicz); *Revue de Philosophie Économique* (Bovens); *The Reasoner* (Steele); *Journal of Economic Methodology* (Bradley); *British Journal for the Philosophy of Science* (Worrall); *Philosophy of Science* (Worrall); *Journal of Evaluation in Clinical Practice* (Worrall); *Journal of Logic and Computation* (List); {*Ethics*; *Thales*; *Tidskrift för Politisk Filosofi*; *Ethical Theory and Moral Practice*; *Dialectica*; *Synthese*; *Knowledge, Rationality and Action*; *Disputatio*; *Law, Ethics and Philosophy*}, (Rabinowicz)

During the REF period, we have examined PhD dissertations in the University of Cambridge (Redei, Frigg), Jagiellonian University Cracow (Redei), Complutense University Madrid (Redei, Frigg), Royal Institute of Technology, Stockholm, (Bovens, Steele, Rabinowicz), Lund University (Bovens twice), King's College London (Bovens, Frigg), LSE (Alexander, Steele), Institute for History and Philosophy of Science and Technology, University of Toronto (Werndl), Amsterdam (Bradley), Groningen (Bradley), Paris-Descartes (Bradley), University of Groningen (List) and University of Amsterdam (List, Bradley), Sorbonne-Paris (Frigg), Université de Lausanne (Bradley, Frigg), ETH Zürich (Frigg) University of Stuttgart (Frigg), UCL (Voorhoeve), Maastricht University (Bradley), Australian National University (Bradley), Uppsala (Rabinowicz), Stockholm University (Bovens, Rabinowicz), Warwick University (Bovens).

Members of LPU have been involved in the organisation of international conferences and workshops: three Philosophy of Science Association Conferences (Madrid, Amsterdam, Athens), twelve workshops on Philosophy of Science topics across Europe (Redei, steering committee); Philosophy and Biology and Physics (Redei); Politics of Secession, London (Bovens); Seven Choice Group workshops, LSE (Bradley, Steele and List); Reductionism and Non-Reductionism in the Social Sciences, LSE (List), Global Demos, LSE (List), Preference Change Workshop, LSE (List); the Economy of the Soul, LSE (Voorhoeve).

Furthermore, individual members of LPU are members of the following philosophy organisations and networks: Rationality and Decision Network, Groningen and LSE (Bovens, Bradley, Steele); European Philosophy of Science Association (Redei, founding member); International Union of History and Philosophy of Science (Redei, Assessor); Philosophy of Science in a European Perspective -- European Science Foundation Networking (Redei, co-chair and UK representative); AHRC Peer Review College (Bradley); Philosophy Institute, London (Bovens, Bradley); Jacobsen Committee (Worrall, Bovens, Alexander); Council of the Royal Institute of Philosophy (Voorhoeve); USC Logic Web Project (Roberts, Advisor); Center for the Philosophy of Science, Pittsburgh (Roberts, programme coordinator); British Society for the Philosophy of Science (Werndl, Committee member, Frigg, former committee member).

As to interdisciplinary organisations, we list: Foundation for the Rights of Future Generations (Bovens, Scientific Advisory Committee); Migration Studies Unit (Deputy Director, Bovens); Grantham Institute for Climate Change (Frigg, Steele, Werndl, research associates; Bovens, steering committee); Scientific Advisory Group for Priorities 2020—NIH, WHO, Bergen and Public Health Foundation India (Voorhoeve), Institut d'Etude de la Cognition, Ecole Normale Supérieure, Paris (Bradley); Council of the Society for Social Choice and Welfare (List).