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Introduction from the Executive Director

Since its launch in 2009, CSaP has developed into a world-leading pioneer of new ways to mobilise the expertise of a whole university to address public policy challenges. At the core of our work as a knowledge broker is the CSaP Policy Fellowship, with nearly 300 Fellows and over 1400 experts.

Policy Fellowships start with questions posed by policy professionals; through a carefully programmed schedule of one-to-one conversations, the Fellow then engages with experts from a wide range of disciplines, all of whom have some contribution to make.

The hard work is done by the Fellow, who uses the meetings to challenge assumptions, refresh thinking, and test new ideas. Policy Fellows typically describe their exposure to what the University has to offer as providing a rare space to think deeply, and to be energised and invigorated by new thinking.

As the 2017 Annual Report makes clear, CSaP is now in a position to put its network to work. We convene our Policy Fellows and experts in order to deliver:

Policy workshops, which bring together policy professionals with a diverse group of experts in a safe space to discuss some of the most challenging policy questions.

Professional development, which utilises the CSaP network to support early career-researchers and policy professionals develop the skills and know-how they need to work more effectively together.

Policy engagement for academic research, which uses CSaP's tried and tested programmes to design and deliver bespoke activities to help individual research projects and centres engage actively with relevant policy makers.



Dr Robert Doubleday

CSaP's mission is to improve public policy through the more effective use of evidence and expertise. We do this by creating opportunities for public policy professionals and academics to learn from each other.

Since its launch in 2009, CSaP has developed into a world-leading pioneer of new ways to mobilise the expertise of a whole university to address public policy challenges. CSaP carries out a series of consultation meetings with senior policy makers in Whitehall, to better understand their needs, and to help bridge the divide between academia and government.

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2010

Our first Visiting Fellow joins CSaP to investigate how to improve links between academia and national security stakeholders in government.

2012

CSaP partners with the University's Strategic Research Initiatives in big data, energy, global food security, public health, infectious diseases, synthetic biology, neuroscience and public policy to help them build links with key policy figures in government and industry.

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2014

The Affiliate Network, a new initiative to extend the Policy Fellowships to other UK universities, is introduced.

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2016

2009

The University of Cambridge announces the launch of a new Centre for Science and Policy - an initiative built on the success of the University's Government Policy Programme (CUGPOP), which was set up to promote understanding of scientific and technological advances, and their implications for government planning and policy.

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2011

Following a successful pilot phase, CSaP launches the Policy Fellowships Programme which remains at the core of our work as a knowledge broker to this day.

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2013

CSaP pilots a programme to address some of the UK's most challenging policy issues, and the launch of the Policy Leaders Fellowship extends CSaP's Fellowships programme to the most senior policy professionals in government and industry.

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2015

CSaP establishes its Services to Research initiative which helps researchers at the University build policy-relevant activities into their research proposals.

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2017

Our Policy Fellowship reaches nearly 300 Fellows who have generated in excess of 2800 policy-related questions, and connected with more than 1400 experts in over 7800 meetings.

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CSaP organises seminars, lectures and an annual conference at which leading national and international figures deliver talks on topics that are of interest to our wider network.

Public Lectures and Seminars

CSaP works with its partners across the University to deliver public lectures and seminars on some of the key policy challenges affecting society.

This year we have partnered with Christ's College; the Behaviour and Health Research Unit; the Biomedical Research Centre; and the Winton Centre for Risk and Evidence Communication to deliver talks on climate change; childhood obesity; the General Data Protection Regulation; and communicating uncertainty.

CSaP Annual Lecture

In February, Professor Chris Whitty, Chief Scientific Adviser in the Department of Health, delivered our annual lecture which looked ahead to profound changes in health and disease. In his lecture, he discussed how to predict and respond to the policy challenges that will follow over the next two decades.

Dr S T Lee Lectures

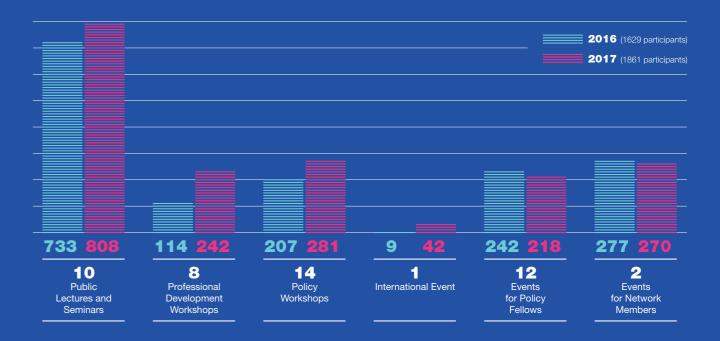
The Dr S T Lee public policy lectures consider aspects of scientific, medical or technological research and developments that are likely to have significant implications for public policy over the next decade.

The 2017 Dr S T Lee lecture was given by Geoff Mulgan, Chief Executive at Nesta. Dr Mulgan discussed how the world could make the most of new tools for intelligence, and how we might avoid a widening gap between the technical achievements of artificial machine intelligence, and the social intelligence of the systems on which our lives depend.

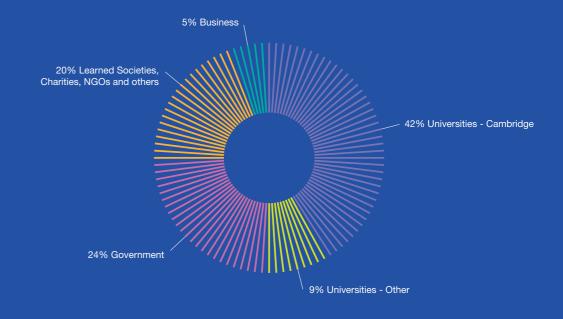
CSaP Annual Conference

Our annual conference, in June, brought together 150 members of our network to discuss some of the opportunities for policy makers at both local and national levels to draw on academic expertise in support of more effective public policy.

Researchers, and the network of Policy Fellows with whom they have interacted over the year, presented their work on a range of topics such as social cohesion, the future of the internet, ecosystems services, and industrial strategy. Recordings of the various talks can be found on our website[†].



Breakdown of event participants in 2017



Local Government Policy Fellow

CSaP supports researchers by drawing on a thriving network of Policy Fellows, and established ways of bringing together policy professionals and academics, to increase the policy impact of research.

Services to Research

CSaP helps researchers at Cambridge to develop policy-related activities as part of their research planning. In 2017, CSaP worked with researchers to build policy engagement into research projects on British ecosystems services policy in the context of the UK leaving the European Union; multilingualism and languages policy; and the impacts of machine learning on climate change modelling, among others.

"Increasingly, as academics, we are required to think out of our silos and work together



and work together in an interdisciplinary way to break down barriers and solve big problems. Meeting with CSaP Policy Fellows has helped me to appreciate the big challenges faced by policy makers. This in turn has informed my own research as well as helped me learn about what my colleagues in other parts of the university are doing to address these challenges from the perspective of their disciplines."

Jaideep Prabhu

Jawaharlal Nehru Professor of Indian Business and Enterprise University of Cambridge As part of the service we provide, we organise workshops and recruit Policy Fellows to help researchers engage with the policy dimensions of their research throughout their projects.

Policy Workshops

Our interdisciplinary workshops bring together policy professionals and academic experts to address questions posed by our network, share new insights, and offer fresh approaches to tackling policy challenges.

In 2017, we held 14 Policy Workshops on topics ranging from industrial strategy, privacy, and civil society to food policy, climate change and devolution.

Policy Research

CSaP has plans to develop a new policy research initiative in 2018. This will support the Policy Fellowships by helping to develop promising ideas that emerge from the programme, and add evidence mapping and evidence synthesis to our current role of knowledge brokering.

Andrew Lightfoot

Strategic Director Public Service Reform, Greater Manchester Combined Authority

"The relationships between Greater Manchester's universities and local government have been greatly improved as a result of my CSaP Policy Fellowship."



With devolution agreements giving Greater Manchester Combined Authority more powers and responsibilities, I am open to any opportunity that can help make a success of this exciting new approach to local government.

I started my CSaP Fellowship with no preconceptions other than the view that meeting world-class authorities on subjects relevant to my role had the potential to be enormously beneficial.

The briefing from CSaP was superb, and really gave me a good sense of what to expect from my meetings with academics. In preparation, I honed some broad areas that I wanted to explore more rigorously. Although it was hard to see why I was scheduled to meet with certain academics, often it was these seemingly more peripheral experts that gave me the most value.

In the past, the relationship between Greater Manchester's universities and local government has been fairly ad hoc. This meant that many opportunities for partnership and collaboration were lost. Inspired by CSaP's setup, I have been working with Alan Harding, our Chief Economic Adviser, to formally structure these institutional relationships to better harvest the research potential of Greater Manchester. Professor Hilary Pilkington's contribution to our Mayoral Commission on community cohesion and radicalisation is a perfect example of this.

The outcome of these more structured relationships has been the establishment of a combined authority and academic network. The aim of this network is to share best practice and insight amongst the Combined Authorities to maximise their potential for success.

The Fellowship also supported the development of GMCA's health and social care policy and the health devolution agenda. During my meetings, I was made aware of some important recent research that might not have come to my attention otherwise. This work informed discussions around the organisation of public health functions in Greater Manchester.

If I was pitching the Fellowship to someone about to participate, I would say that it is a really intensive exposure to a wide range of relevant experts. It's an investment that will potentially stand you in good stead for the next 20 years.

Working with our partners, we are able to extend the value of our activities beyond the University of Cambridge to other universities and learned societies.

CSaP Affiliate Network

The CSaP Affiliate Network extends the benefits of the CSaP Policy Fellowship to other universities, and creates engagement between policy and leading researchers throughout the UK. Through the Affiliate Network, CSaP Policy Fellows have the opportunity to engage with researchers beyond Cambridge, with additional days spent visiting other UK universities.

In 2017, 14 CSaP Policy Fellows were hosted by our affiliate members at the Institute for Policy Research, University of Bath; the Policy Institute, King's College London; the Faculty of Social Sciences, University of Sheffield; and Public Policy Southampton, University of Southampton.

The Royal Society

During 2017, CSaP and the Royal Society joined forces to extend the value of the Policy Leaders Fellowship. Following the termly roundtable discussion in Cambridge, the Royal Society now hosts a follow-up policy breakfast which provides an opportunity to dive into greater detail.

The new Cambridge Institute for Public Policy

CSaP welcomes the Institute for Public Policy which will be launched in April 2018. We expect to go on working closely with the Institute's inaugural director, Professor Michael Kenny, with the Institute prioritising education and research, while CSaP continues to focus on knowledge brokering and engagement.

We are currently developing a number of joint activities including a programme of work on science and democracy in partnership with Churchill College.

Doctoral Training Partnerships at Cambridge

CSaP has been collaborating with the Doctoral Training Partnerships (DTPs) to identify opportunities for their PhD students to work on policy-related activities.

In 2017, we hosted a PhD student from the AHRC DTP working on a project to help improve engagement between government and arts and humanities researchers.

We also ran professional development workshops for NERC and ESRC PhD students to give them a better understanding of the role that scientific evidence plays in public policy.

Ed HumphersonDirector General for Regulation,

Director General for Regulation, UK Statistics Authority

"CSaP is nothing if not an advertisement for the power of connecting to new ideas. This has impressed me and rubbed off on me. When confronting a new problem or set of issues, I'm much more likely now to ask my teams 'do we know the current or newest thinking about this issue?'"



The most significant benefit to me of my Policy Fellowship has been a growth in my confidence – in working with big, new ideas; in participating on equal terms with global experts; and in trusting my curiosity. I've used this confidence in my day job, and as a development experience it's been perfect.

In contrast to the leadership development programmes I've been on in recent years – which have tended to have a reflective, lookinside-yourself focus – the CSaP Fellowship has given me confidence in an outward orientation, towards the world and to new ideas.

I've gained a series of specific ideas that I've used to guide my thinking as I lead the new Office for Statistics Regulation. Some ideas have been of immediate and direct applicability; others resonated but could be placed in storage, ready to be drawn on at just the right time.

For example, on my first CSaP day, Dame Fiona Reynolds talked of her aim to turn the National Trust into an "open-armed" organisation when she became Chief Executive. The phrase "open-armed organisation" is a slow burner that has grown in prominence in my mind since I first heard it. And it serves as a leitmotif for the whole CSaP experience: this notion of opening up space for public participation has recurred throughout my CSaP experience. For example, it's frequently part of Lord Richard Wilson's summaries at the end of the Fellowship's meetings,

which can often focus on the diffusion of power away from Whitehall, and it crops up repeatedly elsewhere too.

Similarly, I found the discussions on social cohesion, the future of cities and the future of work completely fascinating, stimulating, and challenging.

To summarise the impact of CSaP in a sentence: When confronting a new problem or set of issues, I'm much more likely now to ask my teams "do we know the current or newest thinking about this issue?"



CSaP's professional development activities provide researchers and policy professionals with the knowledge and skills needed to translate research into policy.

Workshops

In 2017, CSaP's professional development workshops focused on bringing together early-career civil servants with doctoral students at Cambridge to learn how academic experts and decision makers in government can work together on public policy issues.

In March, speakers from the Foreign and Commonwealth Office and the British Antarctic Survey presented at a workshop for the Cambridge Earth System Science Doctoral Training Partnership, at which students grappled with a challenge on arctic ice management.

Also in March, we organised a series of talks in Whitehall and the Parliamentary Office for Science and Technology for the Churchill Scholars – American Masters students studying science, mathematics, and engineering at the University of Cambridge, based at Churchill College.

And in November, we organised a workshop for Science and Engineering Fast Streamers in the civil service, and students in the ESRC DTP, to give them an insight into research on artificial intelligence, high-impact lowprobability events, and communicating science to non-experts.

We have also been working closely with the policy profession in the Department for Transport. In 2017 CSaP ran three programmes aimed at developing the policy professionals' ability to reach out to and use relevant external expertise. Topics included policy challenges in health and transport, infrastructure, and mobile sensors.

Internships

This year we recruited policy interns from the Universities of Birmingham, Bristol, Cambridge and Nottingham through the RCUK scheme.

As well as developing their communication, writing and event-management skills, our interns have made a significant contribution to our work - from producing background papers and reports for our workshops to interviewing Policy Fellows and writing news articles and case studies.

Secondment opportunities

Over the past year, we have worked with the Department for Communities and Local Government, and GO Science, to identify PhD students to work in government on short-term secondments. We are also working with the ESRC DTP at Cambridge to help identify opportunities for their students to take up secondments.

Dr Isabel Webb

Senior Policy Adviser, EU Exit Strategy for Nuclear Fusion Research, Department for Business, Energy & Industrial Strategy

"By having first-hand experience of the challenges and opportunities awaiting policy makers and academics, I've become much more aware of the great potential that's unlocked when the researchpolicy divide is bridged."



How does academic research get

experiences were talking with CSaP

far – but I'm really enjoying my first to seeing where this new career

14 Policy Fellowships

Our Policy Fellows and alumni have benefited from over 7800 meetings with more than 1400 experts in the CSaP network since the programme launched seven years ago.

Our Fellows, who include 37 Policy Leaders Fellows and 16 Junior Policy Fellows, have met with more than 1400 experts since the programme launched in 2011.

CSaP Policy Fellows spend an initial five days visiting the University for one-to-one meetings with researchers, organised to reflect their policy interests; and then pursue the objectives they set for the two-year period of their Fellowship, returning to Cambridge from time to time for further meetings and events.

The diversity of Policy Fellows' roles and interests means that researchers have opportunities to interact with a wide range of policy makers who want to engage with academia. Themes that were covered over

the past year from Fellows' questions included aspects of national security, energy policy, climate change, artificial intelligence and machine learning.

Some of the most active and engaged Policy Fellows have joined the Continuing Fellowship, an annual membership scheme which provides opportunities for Policy Fellow alumni to continue to benefit from access to new and emerging research at Cambridge and beyond.

There were 17 Continuing Fellows in 2016-17, participating in discussions with (among others) the Winton Centre for Risk and Evidence Communication and the Leverhulme Centre for the Future of Intelligence.

Over the two years, our Policy Fellows gain access to new and emerging research and its relevance in tackling real-world challenges. A survey of our Fellows shows that since the programme launched:



100% would recommend the programme to



89% gained fresh perspectives on their current work



network of contacts



33% reported direct impacts on the policy-making process



The Fellowship meets once a term in Cambridge, under the Chairmanship of former UK Cabinet Secretary, Lord Wilson.

and other Fellows.

Policy Leaders Fellows active during 2017:

Deborah Bronnert

Director General, Economic & Consular Foreign & Commonwealth Office

Nadia Calviño

Director-General
Directorate-General for
Budget
European Commission

Lindy Cameron

Director General, Country
Programmes
Department for International
Development

Gareth Davies

Director General, Business and Science Department for Business, Energy & Industrial Strategy

Leslie Evans

Permanent Secretary
Scottish Government

Matthew Gould

Director General, Digital and Media Department for Digital, Culture, Media & Sport

Sarah Healey

Director General
Department for Exiting the
European Union

Ed Humpherson

Director General, Regulation UK Statistics Authority

Nick Joicey

Director General, Strategy EU Exit and Finance Defra

Julian Kelly

Director General, Nuclear Ministry of Defence

Clive Maxwell

Director General, High Speed Rail and Major Projects Department for Transport

Jeremy Moore

Director General, Strategy Department for Work and Pensions

Vikas Pota

Chief Executive Varkey Foundation

John Pullinger

National Statistician
UK Statistics Authority

Antonia Romeo

Permanent Secretary
Department for International
Trade

Philip Rycroft

Permanent Secretary
Department for Exiting the
European Union

Jonathan Slater

Permanent Secretary
Department for Education

Ashok Vaswani

CEO Barclays UK

Peter Watkins

Director General, Security Policy Ministry of Defence

Sir Chris Wormald

Permanent Secretary
Department of Health and
Social Care, and Head of
the Government Policy
Profession

Deborah Bronnert

Director General, Economic & Consular, Foreign & Commonwealth Office

"I have found it a huge privilege to be a CSaP Fellow for the past two years, meeting with a range of experts covering topics from neuroscience to the future of cities."



Sometimes, I've had to think carefully about how I might apply hese subjects to the work I do on liplomacy. But I've always found a nk as well as enjoying stimulating liscussions that have opened up new and diverse subjects.

part of our diplomatic toolkit. We've had our own in-house academic team – our research analysts – for over 70 years, as well as FCO historians for almost a century. They've been invaluable to me personally in helping me understand the key drivers of different countries and issues, and linking me up with academics and think tanks.

than 30 countries engaged with fostering and promoting scientific collaboration. The UK is one of a handful of countries with a Chief Scientific Adviser in the Foreign Office using science diplomacy to build links with other countries.

As a country with a long history, it is important that we understand the way we are perceived by others, including their take on any shared history we may have – as well as an understanding of the culture, politics and economies of those countries. It's also helpful to know what's worked and what hasn't.

Our in-house teams are a foundation of that but external discussions and links are essential too, and CSaP has been an excellent vehicle for extending my knowledge and contacts in the wider academic world, as well as opening up new subjects and improving my awareness of the strength of UK academic research.

I have found it a huge privilege to b a CSaP Fellow for the past two years, and I look forward to continuing to engage in the future.

Policy Fellows elected in academic years 2015/16 and 2016/17

Cabinet Office - Ted Barry, Senior Policy Adviser

Cabinet Office - Laura Baynton, Head of the What Works Team

Cabinet Office - Oliver Buckley, Deputy Director, Government Digital Service

Cabinet Office - Rupert Cryer, Assistant Director

Cabinet Office - Alice Dowswell, Head of the What Works Team

Cabinet Office - Julie Harris, Policy Adviser

Cabinet Office - Andrea Siodmok, Head of Policy Lab

Department for Business, Energy & Industrial Strategy - Amy Salisbury, Policy Lead, Heat Strategy

Department for Business, Energy & Industrial Strategy - Michael Talbot, Senior Strategy Lead, Centre for Connected and Autonomous Vehicles

Department for Communities and Local Government - Henry Dieudonné-Demaria, Head of Deregulation

Department for Communities and Local Government - Nick King, Special Adviser

Department for Communities and Local Government - Maria O'Beirne, Principal Research Officer

Department for Communities and Local Government - Samanta Padalino, Senior Economist, Head of Growth and Places Analysis

Department for Communities and Local Government - Tom Tolfree, Senior Economic Adviser

Department for Digital, Culture, Media and Sport - Charlotte Kume-Holland, Local Intelligence Team, Office for Civil Society and Innovation

Department for Education - Paul Kett, Director, Teachers and Teaching

Department for Environment, Food and Rural Affairs - John Curnow, Chief Economist

Department for Environment, Food and Rural Affairs - Dudley Hewlett, Head of CBRN Science

Department for Environment, Food and Rural Affairs - Emily Miles, Group Director, Strategy

Department for Environment, Food and Rural Affairs - Frances Pimenta, Policy Adviser

Department for Environment, Food and Rural Affairs - Katherine Riggs, Head of Strategy and Implementation Unit

Department for Exiting the European Union - Grace Carey, Head of Energy and Climate Change Policy Coordination

Department for International Trade - Victor Platten, Deputy Director, Trade Disputes and Market Access

Foreign & Commonwealth Office - Oliver Ferrari, 2nd Secretary

Foreign & Commonwealth Office - Emma Hennessey, Head of Science and Innovation Team and Deputy Chief Scientific Adviser

Foreign & Commonwealth Office - Simon Sharpe, Head of Climate Risk Team

Government Office for Science - Richard Sandford, Head of Horizon Scanning

HM Treasury - William Hall, Senior Policy Adviser

HM Treasury – Victoria Robb, Senior Strategy and Policy Adviser

HM Treasury - Rachel Zammett, Head of Climate Change Policy

Home Office - Charlie Edwards, Senior Policy Adviser

Home Office - Nicholas Jaques, International Adviser

Ministry of Defence - Louise Barton, Senior Analyst, Defence and Security Analysis, DSTL

Bank of England - Jeremy Martin, Senior Adviser

Care Quality Commission - Malte Gerhold, Executive Director of Strategy & Intelligence

Committee on Climate Change - Steve Smith, Head of Science

Environment Agency – Doug Wilson, Director of Scientific and Evidence Services

Food Standards Agency - Julie Pierce, Director, Openness, Data and Digital

Greater Cambridge Greater Peterborough Local Enterprise Partnership - Neil Darwin, Chief Executive

Greater London Authority - Catherine Glossop, Principal Policy Officer, Innovation & Knowledge

Greater London Authority – Jeremy Skinner, Head of Economic Growth

Greater Manchester Combined Authority - Andrew Lightfoot, Strategic Director, Public Service Reform

Labour Party - Gabriel Huntley, Policy Adviser to Chuka Umunna MP

London Borough of Barking and Dagenham - Tom Hook, Strategy & Programmes Director

National Infrastructure Commission - Siddharth Varma, Policy Adviser

NHS England - Michael Macdonnell, Director of Strategy

Scottish Government - John Ireland, Deputy Director, Climate Change & Low Carbon Economy

UK Space Agency - Alice Bunn, Director of Policy

Commonwealth Secretariat - Abhik Sen, Head of Policy and Research (Youth Affairs)

European Commission - Florent Frederix, Principal Administrator, Trust and Security Unit, DG Connect

European Commission - Jose Jiminez Mingo, Principal Administrator, DG Research and Innovation

European Commission - Koen Jonkers, Deputy Head of Unit, Innovation Systems Analysis Unit, DG Joint Research Centre

European Commission - Reinald Krueger, Head of Unit, DG Connect

Hong Kong Police - Jolly Wong, Chief Technology Officer

International Council for Science - Charles Ebikeme, Science Officer

United Nations Environment Programme - Lydia Zemke, Assistant to the Principal Officer, Convention on Biological Diversity

Amey plc- Stephanie Eaton, Head of Research and Innovation in Social Justice

DeepMind - Brittany Smith, Senior Policy Analyst

Places for People - Roger Wilshaw, Director, Policy Research and Public Affairs

Privitar - Guy Cohen, Strategic Relationships Manager

Behavioural Insights Team - Katy King, Adviser

Eastern Academic Health Science Network - Karen Livingstone, Director of Partnerships & Industry Engagement

Exeter City Futures - Glenn Woodcock, Chief Executive

Nesta Health Lab – John Loder, Head of Strategy

Power to Change Research Institute - Genevieve Maitland-Hudson, Head of Evaluation and Impact Assessment

Raspberry Pi Foundation - Philip Colligan, CEO

Royal Academy of Engineering - Shaarad Sharma, Programme Manager (International)

Royal Botanic Gardens Kew - David Cope, Director of Strategy and External Affairs

Royal Society - Louise Pakseresht, Senior Policy Adviser

Royal Society - Emma Woods, Head of Policy, Wellbeing

techUK - Charlotte Holloway, Policy Director

Wellcome Trust - Ed Whiting, Director of Policy and Director's Chief of Staff

We would like to thank Pembroke College for continuing to welcome our Policy Fellows to Cambridge.

Affiliations shown are correct as at the time of election to the Fellowship

Spotlight on...

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Civil society and social cohesion

In October, CSaP organised a roundtable discussion with Professor Michael Kenny, Director of the new Cambridge Institute for Public Policy, and Julia Unwin, Chair of the inquiry into Civil Society Futures.

Social cohesion was the focus for discussion at our Policy Leaders Fellows roundtable in February, and a panel discussion at our annual conference in June, which was chaired by Julia Unwin.

Does Brexit provide new impetus for engaging civil society in policy making?

The purpose of this workshop was to examine ideas to improve engagement of civil society in public policy. In particular, how to go beyond using civil society organisations as delivery partners to engaging with civil society as a core part of the policy making process.

Chaired by Dame Fiona Reynolds, Master of Emmanuel College Cambridge, discussion focused on questions posed by Julia Unwin, Chair of the inquiry into Civil Society Futures. How have recent governments understood and attempted to harness civil society? What future possibilities are there for more effective engagement between civil society and government?

Participants at the workshop reflected on their own experience of government engagement with civil society, citing examples where engagement had led to improved public policy, as well as where it had failed.

"In the current context, disruption of the status quo and the impact the internet has had in politics, this conversation was timely and much needed. It's so important, for the sake of community cohesion and to strengthen civil society, the different sectors represented in the room work together to solve the major challenges we discussed. Hopefully this was just the start of that conversation."

Kajal Odedra Change.org Discussion highlighted challenges to established ways of thinking about civil society, which have been brought about by pressure on identity and community resulting from changing patterns of work, housing and the effects of austerity.

The discussion focused on how governments could learn from successful examples of using knowledge from lived experience and activism in the policy processes. And also the new ways that civil society organisations are connecting with the changing communities they seek to represent.

Positive examples ranged from the Scottish Government's 2015 Community
Empowerment Act, to the ways that civic universities are providing a convening space for civil society, and civil society engagement on social media platforms.

Discussions with our Policy Leaders Fellows raised a number of questions on social cohesion which were discussed at a roundtable meeting of the Fellowship in February.

What do we mean by social cohesion? What measures might we have of cohesion that go beyond measures of GDP? What policy responses can help to build social cohesion, where can and should government have a role, and what outcomes should be worked towards?

The meeting, chaired by former Cabinet Secretary Lord Richard Wilson, brought together senior civil servants in Defence, Education, Health, Transport, Work & Pensions, the FCO, BEIS, Defra, Scottish Government and the UK Statistics Authority. with academic experts from the universities of Cambridge, Kent, London Birkbeck and Sheffield.

Social cohesion is associated with trust, a sense of belonging, inclusiveness and wellbeing - each of which is threatened in the absence of social cohesion.

Jobs, identity and a sense of meaning are all essential for cohesion. Lack of opportunities for young people to engage in meaningful work, for example, presents a significant threat to cohesion and increases the risk of conflict in society.

The discussion focused on the two-sided nature of social cohesion; rivalrous social cohesion in which a shared sense of group identity is defined in opposition to others, versus non-rivalrous social cohesion which supports individuals to hold multiple identities and to build bridges with different groups.

The meeting highlighted a number of opportunities for advancing non-rivalrous social cohesion and tackling loneliness and social isolation. There was also a discussion on opportunities for policy intervention at national as well as local level to promote positive social contact between members of different groups.

Julia Unwin

Chair of the Independent Inquiry into the Future of Civil Society

"I very much liked the methodology of the workshops and the interdisciplinary make-up of the participants and contributions. Overall, they have been great experiences as they provided a cost-effective 'deepdive' into evidence."



I greatly enjoyed my time as a Policy Leaders Fellow and taking part in the workshops that CSaP organised.

Coming from an Arts and Humanities background, I found the sciencebased workshops on neuroscience, data analytics and epigenetics to be both challenging and interesting. The epigenetics session, in particular, made a big difference to how I thought about poverty and

My work as Chair of Civil Society Futures looks into how civil society organisations can organise to make an impact and adapt for the future. As I was tasked with looking at where civil society might be in 10 years' time, the CSaP policy timely; firstly, to enable a more sophisticated view of civil society, and secondly to brief policy makers on the big challenges.

The social cohesion session for Policy Leaders in February, and the CSaP annual conference panel discussion in June, were also very interesting as they directly referred to my passions and background.

I very much liked the methodology of the workshops and the interdisciplinary make-up of the participants and contributions. Overall, they have been great experiences as they provided a costeffective 'deep-dive' into evidence.

Spotlight on...

Evidence, uncertainty and trust

In September, CSaP partnered with the Global Food Security initiative at Cambridge to convene a roundtable discussion on the future of UK food regulation.

And the question of how we communicate uncertainty without endangering trust and credibility, a research question that academics at the Winton Centre are investigating, was the topic of a panel discussion held in November.

EVIDENCE, UNCERTAINTY AND TRUST | WORKSHOP

Monitoring the global food system: building trust and resilience for UK citizens and consumers

Will improvements in the monitoring and surveillance of the global food system increase levels of consumer trust?

CSaP Policy Fellow, Julie Pierce – Head of Openness, Data and Digital at the Food Standards Agency – set the agenda for this workshop with a series of challenging research questions on monitoring and surveying the food system.

The FSA works on behalf of the consumer, ensuring that the food available for purchase is safe, and that it is what it says it is. Improved monitoring, surveillance and openness of the food system is driven by the latest data modelling and digital technology. Part of Julie's role is to bring innovative approaches and technology into the practices of the FSA.

The purpose of the workshop was to understand how the monitoring of the global food system might help consumers, and indeed to what degree consumers themselves might play a direct role in driving greater visibility of and engagement with the food system. Finally, whether increasing consumer engagement could increase their understanding of the food system, resulting in net health benefits.

The relationship between expertise, risk and trust was explored explicitly in this discussion. Using expertise to improve risk monitoring, far from leading to a reduction in consumer trust, could provide an opportunity to increase it.

Government-driven citizen science projects to engage non-scientists in scientific and data-gathering projects are in keeping with the FSA's goal of empowering the consumer.

Discussants at the workshop agreed that consumers needed to be able to trust the regulatory bodies working on their behalf, and that more accurate monitoring and surveillance, as well as more consumer engagement, would help build this trust.

26 How can we communicate uncertainty without endangering trust and credibility?

There is a gulf between the public's trust of official statistics, and their lack of trust in the way government uses these statistics. How can we make it more difficult for politicians and the media to misuse statistics?

Academics at the University of Cambridge's Winton Centre for Risk and Evidence Communication are investigating the difficult question of how we can communicate uncertainty without endangering trust and credibility.

In November, Chairman of the Centre, Professor Sir David Spiegelhalter, led a discussion on this topic with contributions from Emily Miles, Group Director of Strategy at the Department for Environment, Food and Rural Affairs; Amanda Farnsworth, Head of Visual and Data Journalism at BBC News: and Sir David Norgrove, Chair of the UK Statistics Authority.

The role of a policy maker is to understand which policies are best supported by the evidence, to communicate this, and to implement the policies decided upon by ministers.

Traditional news media has an important role to play in helping to separate fact from fiction. This means not only qualifying represented data as the "best estimate", but also communicating clearly what is meant by terms such as "likely".

We are at a stage where the level of distrust in experts is more perceptible than ever before. One factor contributing to this situation is the lack of a reliable methodology for communicating uncertainty about the conclusions we draw from our data.

Even our best scientific methods do not lead us to absolute certainty; yet so often in the public communication of research, uncertain conclusions are presented as certainties.

The answer to the research question - how do we communicate uncertainty without endangering trust and credibility - according to Professor Spiegelhalter, is likely to depend upon the context of the communication, its audience, and the format of presentation.

Emily Miles

Group Director, Strategy, Defra

"I approached my CSaP Policy Fellowship as an excellent opportunity not only to understand more about certain research areas key to my new position, but also to aid my personal development as a leader."



I started my Fellowship just as I took up the position of Group Director, Strategy at Defra. My Fellowship gave me the opportunity to engage with researchers on topics such as environmental economics, trends in data, and leadership management. In particular, I really valued the discussions on biodiversity, environmental economics, and resource efficiency and usage.

A conversation with Rob Doubleday about genetically modified organisms made me think expansively about how to use technology in a way that is publicly acceptable. My meetings at Cambridge also made me aware of Professor Susan Owens' recent study on the UK Royal Commission on Environmental Pollution.

As someone who was new to Defra at the time, having this information provided me with a vivid sense of memory and understanding regarding the public debates which have shaped the department.

workshop on civil society, coconvened by Julia Unwin, Chair of the Independent Inquiry on the Future of Civil Society. Her view that we should reframe the formality of language around volunteering to be more in line with the usage of ordinary citizens, influenced a Defra think piece on environmental volunteering.

I also participated in a CSaP

Above all, my Fellowship has given me access to a network of expert researchers, which I feel I can draw upon at any time. Innovation expert, Professor Jaideep Prabhu, recently joined us at Defra for an engaging talk as part of our Defra Greenhouse talk series. And rural economist, Professor Ian Hodge, presented to a panel of senior civil servants in Defra Group regarding the future of farming and ecosystem services.

CSaP's network has made it much easier to get expert perspectives from outside the policy making sphere, and I hope to continue this collaborative work with CSaP in the future. I will also encourage others within my directorate to undertake CSaP Fellowships.

Transport, data and the future of mobility

As part of the Government Foresight
Project on the future of mobility, CSaP
organised a Policy Workshop to discuss
potential social and demographic
issues which are likely to influence
mobility over the next few decades.

CSaP has also been working with the Department for Transport on a new learning and development scheme developed by Pauline Reeves, a CSaP Policy Fellow and senior civil servant in the DfT.

The future of mobility

In February, CSaP organised a Policy Workshop with the Government Office for Science and the Department for Transport as part of the Government Foresight Project on the future of mobility. The main purpose of the workshop was to share insights and develop an understanding of the social and demographic trends and drivers of change shaping the transport system of the future, and consider these in the context of emerging technologies.

Researchers from Imperial College London and the Universities of Cambridge, Leeds, Newcastle, Nottingham, and Oxford participated in discussions on factors that affect our travel choices; designing technology to help influence behaviour effectively and responsibly; and managing tension between tailored personalisation of data and the ethics of using that data.

Achievable targets for the Foresight Project were drawn out of the discussion, as well as long-term factors to be considered such as a move towards car-free cities and the introduction of autonomous vehicles.

These advances have the potential to raise new questions for public policy, e.g. will services driven by consumer demand – such as ride sharing – conflict with policy interventions, such as reducing traffic capacity in favour of cycle lanes?

And how will other areas of policy such as housing, employment, education, open data and health influence people's attitudes and behaviours towards transport?

A report of the workshop is available on our website†.

Smart technologies for transport infrastructure planning and policy

Over the past year, CSaP has worked with the Department for Transport on a new learning and development scheme developed by Pauline Reeves, a CSaP Policy Fellow and senior civil servant in the DfT.

Inspired by Pauline's Fellowship experience, the purpose of the "Policy Propeller" was to spark a mutually beneficial dialogue between policy professionals in the DfT and researchers at Cambridge on a range of policy challenges.

The first policy challenge introduced policy professionals to researchers in the Cambridge Centre for Diet and Activity Research to discuss policy options for doubling the level of cycling activity by 2025, and for cycling to become the default for short journeys by the 2040s. Discussions at these workshops ultimately influenced the Government's first statutory cycling and walking strategy[†], published in May this year.

"Having senior buy-in from members of the DfT Executive Committee was and remains crucial to the scheme's adoption and continuation. They act as the final panel to approve policy ideas, some of which may feed into current policy thinking around the issues in question."

Pauline Reeves

For the second policy challenge, the DfT cohort was keen to explore the use of smart monitoring technology to better understand the condition of existing infrastructure in the UK.

Dr Jennifer Schooling, and a team of researchers from the Cambridge Centre for Smart Infrastructure and Construction, set out the opportunity for the UK to be an early adopter of smart monitoring technologies, challenging the DfT participants to make an innovative value case for the implementation of such cutting-edge technologies.

The result of this collaboration was a proposal by the cohort to senior officials in the DfT to encourage the use of smart technologies to become the "new normal"

Following on from the success of these workshops, the DfT plans to make this scheme part of the overall talentmanagement strategy for the department.

Guy Cohen Policy and Strategy Lead, Privitar Ltd

"I found CSaP's Policy Fellowship to be exceedingly useful and interesting. There is an element of public service and 'working for something greater than your salary'. I'm very thankful for the hard work CSaP does and I foresee continuing value from my Fellowship."



Policy Fellow

I'm the Policy and Strategy Lead at Privitar, a privacy engineering technology company which designs solutions for data scientists, so they can mine large data sets in a privacypreserving way.

As a nascent field there are a range of unsolved policy challenges in privacy engineering. These include understanding what is required by new regulations, such as the General Data Protection Regulation; looking beyond just regulation to see the ethical considerations which exist outside of legal requirements; and developing the standards and methods which can form the best practice required to enable wide adoption of these powerful new tools.

I greatly enjoyed my experience as a Policy Fellow, and felt the experience gave me both useful insight into my

areas of interest, and a greater understanding of the role of academia in policy making. I found it motivating due to the relevance to my work, as well as from intellectual curiosity to understand the work of the fascinating people I met.

The conversations with those I met. both other Policy Fellows and those at workshops I attended, have been interesting and important. For instance, a conversation with a Cambridge researcher at a CSaP dinner in my first year changed the way I think about data ownership.

As well as being interesting and formative, many of my meetings also led to ongoing collaborations and relationships. I been invited to speak to students on the subject of data privacy and ethics. And I am having ongoing discussion with four other

academics on pieces which we might collaborate on, all of which I think are fascinating and relevant to both my and their work.

Privacy is only growing as an issue and an area for research and as such I hope that the valuable connections made through the Fellowship will continue. Ideally, I'd like to see a working group emerge which myself and many of those I met could join to continue collaborating and sharing learning. I'm also keen to take part in further policy workshops on big data and data privacy as appropriate.

Climate change, risk and resilience

Professor Charles Kennel, our longstanding Visiting Research Fellow from the University of California San Diego, returned to the UK to host the latest in his series of thought-provoking seminars on tackling climate change.

The discussion on innovative climate risk assessments at one of these seminars was further developed in June, when CSaP organised a Policy Workshop with Dr Emily Shuckburgh to explore the potential for longer-term research initiatives at Cambridge.

In it for the long run: a series of seminars on tackling climate change

In our fourth series of climate seminars, organised in collaboration with Christ's College Cambridge, we covered a range of topics from planetary vital signs for measuring climate change, to using AI to develop more sophisticated future climate predictions.

Clive Maxwell, Director General for Energy Transformation in BEIS, addressed some of the main challenges the government faces including improving the UK's building efficiency and the prospect of electrifying our heating systems to use heat networks, biogas or hydrogen fuel instead of fossil fuels.

"The Climate Change Seminar Series were some of the most interesting climate talks I have been to. The range of topics covered gave me a real understanding of how we must now engage the public and policy makers in order to move forward in our commitments to making substantial changes in the future."

Amy King PhD Student British Antarctic Survey

Chris Rapley, Professor of Climate Science at UCL, introduced the concept of planetary vital signs – key indicators used by climate observers for measuring climate change. Having clear climate change signals to communicate to the public could help emphasise its importance and encourage behavioural changes to reduce carbon emissions.

A Senior Adviser in the European Space Agency, Professor Stephen Briggs, described how high-resolution observations from satellites are being used to improve global circulation model predictions, and help design better mitigation strategies.

Dr Emily Shuckburgh, Head of Open Oceans at the British Antarctic Survey, explained how collaborating with artificial intelligence companies could develop more sophisticated future climate predictions in climate models.

What are the opportunities for developments in environmental risk assessments to inform policy decisions?

In June, we organised a workshop with Dr Emily Shuckburgh from the British Antarctic Survey to explore the potential for longer-term research initiatives at Cambridge to develop data science methods for more useful climate risk assessments.

The purpose of the workshop was to discuss which questions should be investigated by researchers to best help decision makers across government and industry adapt to the changing climate.

Contributing to the discussions were
Cambridge researchers from computer
science, engineering, sustainability and the
environment, and the business school; policy
professionals from Defra and the
Environment Agency; and lawyers and
business leaders including Client Earth,
Marks and Spencer, and Mott MacDonald.

Advances in technology and data science have the potential to provide information about environmental risks across an increasingly broad spectrum of policy-relevant issues.

"It was fantastic to see academia driving the agenda of climate risk forward, and doing it in a way that engages business to see what would be of benefit to them."

Zoe YoungMarks & Spencer

New data science tools, such as machine learning, offer the potential to augment more traditional climate modelling techniques and lead the way to multi-dimensional climate risk assessments.

Improved knowledge and accessibility to statistical techniques can dramatically change the way that society approaches climate change.

However, to enable widespread access to such information by decision makers, data management infrastructure needs to be overhauled and data curated in such a way as to ease its application. It will also be necessary to foster close dialogue between data providers and data users, to ensure the information is generated in a form that is fit for purpose.

Dr Emily Shuckburgh

Head of Open Oceans, British Antarctic Survey

"Every conversation I've had through the CSaP network has had some kind of obvious connection to the work we're doing here, and CSaP has been very valuable in having those discussions."



Researcher

I am particularly excited about developing the use of AI and Big Data to tackle climate and environmental risk.

Growing amounts of data, especially from satellites, combined with increasingly sophisticated machine learning technologies, can help us make the connection between predictions for the climate and the impacts of climate changes.

Whether it's how crop yields may be affected, the threats to habitats that we want to conserve or the implications for human health, these impacts have been difficult to connect. But we now have the potential to better map out those connections, leading to more accurate predictions in the future.

The contacts I've made through
CSaP have been invaluable – not just

the external ones but also the internal contacts within Cambridge. When I first met Craig Davies, a CSaP Policy Fellow at the European Bank of Research and Development, he had just spoken to academics from the Institute for Manufacturing at Cambridge. Through him I made new connections with people who had similar interests. Together we identified two prototype projects to work on – one on milk production in Egypt and the other on air conditioning in Cairo.

It was also through Craig that a Policy Workshop came about. It gave us an opportunity to present our research to a broad range of stakeholders including Client Earth and Marks and Spencer. Through this we learned about their different information needs and in turn, they heard about cutting-edge machine learning technology.

At another CSaP event I met Dr Emily So from the Cambridge Department of Architecture. We appeared on a panel together for a Professional Development workshop and realised that our research interests overlapped.

We've since worked together on a research bid looking at environmental health and poverty challenges in peri-urban environments. And we were even able to identify others in CSaP's network to contribute.

Every conversation I've had through the CSaP network has had some kind of obvious connection to the work we're doing here, and CSaP has been very valuable in having those discussions. CSaP's Management Committee reports to the University of Cambridge's Research Policy Committee. The Advisory Council advises on CSaP's strategy and activities, paying particular attention to the views of stakeholders.

Management Committee

Professor Dame Ottoline Leyser (Chair) Director, Sainsbury Laboratory

Dr Robert Doubleday (Secretary) Executive Director, Centre for Science and Policy

Professor Christoph Loch Director, Cambridge Judge Business School

Professor Richard Prager

Head of School, School of Technology

Professor David Runciman

Head of Department, Department of Politics and International Studies

Advisory Council

Dr David Cleevely (Chair) Chairman, Raspberry Pi Foundation

Julia Unwin (Vice Chair) Chair, Independent Inquiry on the Future of Civil Society

Professor Dame Carol Black

Principal, Newnham College Cambridge

Dr Claire Craig

Director, Science Policy, Royal Society

Professor Dame Athene Donald

Master, Churchill College Cambridge

Professor Dame Ann Dowling

President, Royal Academy of Engineering

Clare Moriarty

Permanent Secretary, Defra

Dr Geoff Mulgan

Chief Executive, Nesta

Dame Fiona Reynolds

Master, Emmanuel College Cambridge

Dr Adrian Weller

Senior Research Fellow Department of Engineering University of Cambridge

Lord David Willetts

Executive Chair, Resolution Foundation

Lord Richard Wilson

Cabinet Secretary (1998-2002)

Sir Chris Wormald

Permanent Secretary, Department of Health and Social Care, and Head of the Civil Service Policy Profession

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Trust for their philanthropic donations; and

Financial Report - Year to 31 July 2017

organisations that have sponsored or supported particular activities during 2017. The table below shows that CSaP finished the year with a surplus, the first time since the Centre launched in 2009.

	FY 2015/2016 £	FY 2016/2017 £
Income	495k	515k
Expenditure	543k	495k
Net income	(48)k	20k
Total funds brought forward as at 1 August	216k	168k
Total funds carried forward as at 31 July	 168k	188k

CSaP Team



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Katie Cole

Comms & Admin Coordinator

Dr Robert Doubleday

Executive Director

Laura Hyde

Events Coordinator

Kaisa Juosila

Policy Fellowships Coordinator

Jackie Ouchikh

Head of Programmes

Dr Steven Wooding

Lead for Research & Analysis

supported and participated in our various activities.

lan Abbott-Donnelly (IBM Europe); Prof Chris Abell (Dept of Chemistry);
Prof Dominic Abrams (University of Kent); Dr Maria Abreu (Dept of Land
Economy); Dr Sinan Ackigoz (Cambridge Centre for Smart Infrastructure an
Construction); Dr Matias Acosta (Dept of Materials Science & Metallurgy); Dr Jean Adams (Centre for Diet and Activity Research); Dr Amy Ahern (MRC Epidemiology Unit); Dr Shafiq Ahmed (Dept of Chemical Engineering and Biotechnology); Stephen Aldridge (DCLG); Sylvain Alem (GO-Science); Dr Anne Alexander (Centre for Research in the Arts Social Sciences and nne Alexander (Centre for Research in the Arts Social Sciences and anities): Prof Kern Alexander (Judge Business School): Dr Anna Humanities); Prof Kern Alexander (Judge Business School); Dr Anna Alexandrova (Dept of History and Philosophy of Science); Dr Dora Alexopoulou (Dept of Theoretical and Applied Linguistics); Dr Elizabeth Allen (Judge Business School); Dr Lara Allen (Centre for Global Equality); Prof Phil Allmendinger (Dept of Land Economy); Prof Julian Allwood (Dept of Engineering); Dr Rosamunde Almond (Cambridge Forum for Sustainability and the Environment); **Prof Ash Amin** (Dept of Geography); **Dr Edward Anderson** the Environment); Prof Ash Amin (Dept of Geography); Dr Edward Anderson (Centre of South Asian Studies); Jamie Anderson (Buro-Happold Engineering); Prof Ross Anderson (Computer Laboratory); Prof Christopher Andrew (Faculty of History); Dr Annela Anger-Kraavi (Cambridge Institute for Sustainability Leadership); Sam Anson (Scottish Government); Dr Alex Archibald (Dept of Chemistry); Dr Andres Arcia-Moret (Computer Laboratory); Anil Ari (Faculty of Economics); Dr David Arkell (Anglia Ruskin University); Prof Kenneth Armstrong (Faculty of Law); Prof Madeleine Arnot (Faculty of Education); Neville Ash (UNEP World Conservation Monitoring Centre); Lawrence Ashelford (Cambridge University Hospitals NHS Foundation Trust): **Prof John Aston** (Home Office): **Dr Sally Atkinson** (Institute Foundation Trust): Prof John Aston (Home Office); Dr Sally Atkinson (Institute of Public Health); Prof Gareth Austin (Faculty of History); Dr Shahar Avin (Centre for the Study of Existential Risk); Prof Jean Bacon (Computer Laboratony); Prof Andrew Balmford (Dept of Zoology); Richard Banks (Microsoft Research Cambridge); Anthony Barker (Cambridge Econometrics); Dame Kate Barker (Industrial Strategy Commission); Prof Catherine Barnard (Faculty of Law); Alan Barrell; Prof Michael Barrett (Judge Business School); [Faculty of Law); Alan Barrell; Prof Michael Barrett (Judge Business School); Ted Barry (Cabinet Office); Dr Tina Barsby (National Institute of Agricultural Botany); Dr Lorand Bartels (Faculty of Law); Dr Victoria Bateman (Gonville and Caius College Cambridge); Prof Martin Bauer (London School of Economics and Political Science); Prof Sir David Baulcombe (Dept of Plant Sciences); Simon Beard (Centre for the Study of Existential Risk); Katja Bego (Nesta); Dr Bettina Beinhoff (Anglia Ruskin University); Belinda Bell (Nesta); Dr Bettina Beinhoff (Anglia Huskin University); Beinhod Beil (Cambridge Social Ventures); Dr John Bellamy (Dept of Theoretical and Applied Linguistics); Jacopo Bellasio (RAND Europe); Craig Bennett (Friends of the Earth); Stephen Bennett (GO-Science); Prof Wendy Bennett (Dept of Theoretical and Applied Linguistics); David Bent (Fairsay); Dr Craig Berry (Sheffield Political Economy Research Institute); Dr Chris Bickerton (Dept of (Sheffield Political Economy Research Institute); Dr Chris Bickerton (Dept o Politics and International Studies); Rafael Biosse Duplan (Finisterre Capital) Dr Nick Bisson (Dept for Transport); Dr Mike Bithell (Dept of Geography); Prof Dame Carol Black (Newnham College Cambridge); Dr Deirdre Black (Royal Society of Chemistry); Prof Alan Blackwell (Computer Laboratory); Prof Robin Bloomfield (City University London); Dr Adam Boies (Dept of Figure Robin Bloomine (City University London); Dr Adam Boies (Dept of Engineering); Laura Bonesi (Dept of Earth Sciences); Kate Bonham (Civil Service Talent); Dr Michael Bonnett (Faculty of Education); Paul Bourgeois (Greater Cambridge Greater Peterborough LEP); Dr Adam Branch (Dept of Politics and International Studies); Prof Carol Brayne (Institute of Public Health Dr Alvis Brazma (European Bioinformatics Institute Cambridge); Laure Dr Alvis Brazma (European Bioinformatics Institute Cambridge): Laure
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Lucy Bruzzone (Cambridge Institute for Sustainability Leadership);

A note of thanks

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