Welcome

It is a great pleasure to welcome you to this third event in our annual international Data for Policy conference series. We have come a long way in the three years since our inaugural conference in Cambridge (2015). It has been a humbling experience for me personally, to see the overwhelming interest and support for this initiative from around the world. The intention at the beginning was to offer a learning and knowledge exchange opportunity for various stakeholders that share the common interest of making the most of the ongoing digital revolution for the public sector, but often find themselves lost in translation. Since our first conference, I feel that this initiative has become so much more; offering real opportunities for experts from across the world to influence and shape the course of the data revolution, particularly for government applications. Our growth to date has been quite eclectic but in the coming months, we aim to initiate new organisational structures for multiple interest groups in order to make this a truly accessible medium for scholarly debate, publishing, and knowledge transfer in this emerging field of research.

We realise that although governments are likely to benefit most from the emerging technologies, given that they have the unique legitimacy to collect and process huge amounts of citizen data and manage the public infrastructure on behalf of each one of us, the right procedures should first be established to ensure that all potential societal outcomes are adequately assessed. The commercial success stories based on advancements in technologies like Artificial Intelligence, the Internet of Things, or Blockchain cannot be replicated in the public sector with the same speed as they have in the private. This is because the potential for social impact is so much greater - in privacy, security, ethics, and transparency terms. The specific theme for this year’s conference is ‘Government by Algorithm?’ - a critical question within the broader ‘Data for Policy’ debate - since algorithms are the main load-bearers when it comes to extracting useful information from the massive explosion of data in all forms and from countless different sources. In the way that multi-national companies are changing how we work, socialize, or create value in the economy, data partnered with the ‘right’ algorithms can completely transform the public sector, improving its efficiency enormously in a number of fundamental functions ranging from offering ‘intelligent’ advice to citizens and ‘intelligent’ support to civil servants, to automating regulation and dispute resolution. The fundamental nature of this question of governance by algorithm; it’s enormous potential and global impact, convinced us that this was the right focal point for our conference.

I should thank all our committee members, partners and sponsors (listed in the next few pages) for their invaluable support to this initiative. I would particularly like to mention Professor Anthony Finkelstein and the UK Government Data Science Partnership (Go-Science, ONS, and GDS) for hosting us at this premier conference venue this year. I would also like to express my sincere gratitude to University College London for hosting this initiative as a whole and to University of Cambridge for providing the space for all this to start and develop in the first two years.

I sincerely hope that you will enjoy the conference and continue to stay in touch with us afterwards.

Kind regards,

Zeynep Engin  (Founder, Data for Policy)
Committees

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Jon Crowcroft – University of Cambridge; The Alan Turing Institute
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- University of Essex – Institute for Analytics and Data Science
- Essex County Council
- UK Administrative Data Research Network (ADRN)
- Privitar
- CognitionX
Conference Programme

Wednesday, 6 September 2017

09:00 – 09:30 Arrivals & Registration

09:30 – 09:45 Data for Policy: From Idea to Practice (Room A)
   Anthony Finklestein (@profserious), Chief Scientific Adviser for National Security, UK
   Zeynep Engin (@ZeynepEngin), Founder, Data for Policy; University College London (UCL)

09:45 – 10:45 Opening Plenary Session (Room A)

Plenary: Data and the Transformation of Policy Making as We Know It

“Government Statistical Services in the Data Analytics age”
Mariana Kotzeva (@MarianaKotzeva), Acting Director-General, Eurostat, European Commission, Luxembourg

“Better Data for Better Policy”
Heather Savory (@SaturnSA4), Director-General for Data Capability, Office for National Statistics, UK

“Maintaining Public Trust in the Era of Big Data”
Daniel Zeichner (@DanielZeichner), Member of Parliament for Cambridge; Chair of All Party Parliamentary group on Data Analytics, UK

Chair: Anthony Finklestein (@profserious), Chief Scientific Adviser for National Security, UK

10:45 – 11:15 Break

11:15 – 12:15 Parallel Session 1

Session 1a (Room A): Algorithms and Policy Making

Chair: Emanuele Baldacci, Director of Methodology, IT and Corporate Statistical Services, Eurostat

[43] "The computer says 'DEBT': A critical analysis of Australia’s automation of welfare debt detection and recovery" – Paul Henman, The University of Queensland, Australia
Session 1b (Room B): Data and Economic Policy

Chair: Gabrielle Demange, Paris School of Economics, France

[20] "Modelling the impact of potential council tax reforms in London" – Mark Wingham, Greater London Authority, UK

[36] "One market, one money, one price: using COMEXT data to assess the EU market integration target" – Andrea Cerasa, Domenico Perrotta, Francesca Torti and Daniela Buscaglia, Joint Research Centre, European Commission, Italy

[44] "Mapping without a map: Classifying companies to market sectors using unsupervised learning" – Konstantinos Stathoulopoulos and Juan Mateos-Garcia, Nesta, UK

[75] "Public policy and the promise of digital credit for financial inclusion" – Caroline L. Anderson, University of Washington Evans School, USA; Pierre Biscaye (@pbciscaye), Evans School of Public Policy & Governance, USA; Travis Reynolds, Colby College, USA

Session 1c (Room C): Data and Urban Policy Making: “Building a whole system approach to data capability - collaborative data use and storage in local government as a way to improve service delivery” – organised by Essex County Council (@Essex_CC)

Introduction: Chi Onwurah MP, Co-chair, APPG Finance and Technology;

[54a] "Essex Data Programme - place based risk profiles for ‘wicked issues’" – Liz Ridler, Essex County Council

[54b] "Data supermarket - storing and monetising place-based data" – David Wilde, Essex County Council

[54c] “Essex Centre of Data Analytics - the architecture to derive value from data” – Victoria Harrington, Essex Police

[54d] "Can smarter use of data save local government?" – Eddie Copeland, NESTA

Discussion Panel: Chi Onwurah MP, Co-chair, APPG Finance and Technology; Stephen Aldridge CB, Director for Analysis and Data at DCLG; Maria Fasli, Director of the Institute of Analytics and Data Science, University of Essex; Jason Kitkat, Executive Director, Corporate Development, Essex County Council; Councillor Stephen Canning, Bocking Ward, Essex County Council
Session 1d (Room D): Data-driven Policy Making

**Chair:** Sue Bateman, Deputy Director, Better Use of Data, Government Digital Service

[34] “Building Momentum for Evidence-Based Policymaking in State and Local Governments” – Rohit Naimpally and Hannah Myers, J-PAL North America, MIT Media Lab, USA

[97] “Big Data and Governance: Global Comparisons” – Ralph Schroeder (@ralphschroeder), Oxford Internet Institute, University of Oxford, UK

[109] “Data Science in BEIS: Clusters for Industrial Strategy” – Steve Dempsey (@Scientist_Steve), Louise Davies, Cathy Atkinson and Andreas Harding, Department for Business, Energy and Industrial Strategy (BEIS), UK

12:15 – 13:30 Lunch & Demonstrations

**List of Demonstrations (Room E)**

**Chair:** Jon Crowcroft, Computer Laboratory, University of Cambridge

[63] “Collecting non-mandatory workforce data: Data quality and encouraging response” – Charlynne Pullen (@CharlynnePullen), The Education and Training Foundation, UK

[102] “GlassAI Demonstration” – Sergi Martorell, GlassAI, UK

[104] “How smart contracts can implement the policy objective of ‘report once’” – Marc Sel, Royal Holloway University of London; Sander Demeester (@SanderDemeester), PwC, Belgium; Harald Stieber (@StieberHarald), Harvard, U.S., and European Commission, Belgium; Henning Diedrich (@hdiedrich), Claryon, Germany

[113] “An opensource strategy for public online algorithms and data services: the French water information system experience” – Alexandre B. J. Liccardi and Laurent Coudercy, AFB (French Biodiversity Agency), France

[116] “Economic policy, "alternative data" and global agriculture” – Marina Chang, Coventry University, UK; Boglarka Saxena, University College London, UK; C.H. Huang, National Sun Yat-sen University, Taiwan; I.S Mian, University College London, UK

13:30 – 14:30 Keynote Lecture 1 (Room A)

“(Private) Data for (Public) Policy”

Stefaan Verhulst (@sverhulst) Co-founder and Chief Research and Development Officer of the Governance Laboratory (GovLab), New York University, USA

**Chair:** Kenneth Benoit (@kenbenoit), Head of Department of Methodology, London School of Economics and Political Science
14:35 – 15:35  Parallel Session 2

Session 2a (Room A): Automated Decision-making and Privacy

Chair: John Taysom, Privitar; University College London

[40] “Privacy, Vulnerability, and Willingness to share: An Empirical Investigation Using Latent Growth Curve Model” – Susan Wakenshaw (@sylwakenshaw), WMG University of Warwick, UK; Lalitha Dhamotharan, University Sains Malaysia; Joshua Ignatius, WMG University of Warwick, UK; Xiao Ma, University of Warwick; Irene Ng (@ireneclng), WMG University of Warwick, UK; Daqiang Chen, Zhejiang Gongshang University, China

[55] “Revolutionising Computing Infrastructure for Citizen Empowerment” – Noa Zilberman, University of Cambridge, UK

[69] “Pervasive data profiling and the possibility of civic responsibility” – Sylvie Delacroix, UCL Laws, UK

[94] “The challenges and benefits of automated mediation system: case study of healthcare management” – Leid Zejinilovic (@leid_zejinilovic), Nova School of Business and Economics, Portugal; Qiwei Han, Carnegie Mellon University, USA

Session 2b (Room B): Urban Analytics and Policy Making I

Chair: Tony Hey, Chief Data Scientist, Rutherford Appleton Laboratory, Science and Technology Facilities Council, UK


[84] “Assessment of Implementation Differences of State Programs of Emissions Monitoring for Passenger Vehicles in the USA” – H Scott Matthews (@HScottMatthews), Paul Fischbeck, Deanna Matthews and Sinnott Murphy, Carnegie Mellon University, USA

[100] “A global ranking of cities by accessibility to services” – Talia Kaufmann, Northeastern University, USA; Abel Schumann and Rudiger Ahrend, OECD, France

Session 2c (Room C): Data and Humanitarian Policy “Interpreting the Geneva Conventions in the Age of Cyber Warfare: Critical Challenges in Applying International Humanitarian Law to the Use of Data in the Context of Modern Armed Conflict” – organised by the Harvard Humanitarian Initiative at Harvard University

Chair: Nathaniel Raymond (@nattyray11), Harvard University

[70a] "Use of ICTs and Data by Humanitarian Actors During Crisis Response” – Stuart Campo (@stucampo), Harvard Humanitarian Initiative, Harvard University

[70b] "Use of ICTs and Data by Civilian Populations Affected by Armed Conflict” – Daniel Scarnecchia, (@mountainherder) Harvard Humanitarian Initiative, Harvard University
[70c] "Use of ICTs and Data by State and Non-State Actors Party to Armed Conflict" – Caitlin Howarth (@CaitlinHowarth), Harvard Humanitarian Initiative, Harvard University

**Session 2d (Room D): Institutionalizing Data as a Resource for Policy Making**

**Chair:** Jean Bacon, University of Cambridge

[38] "An (increasingly) visible college: Mapping and strengthening research and innovation networks with open data" – Juan Mateos-Garcia (@MateosGarcia), Kostas Stathoulopoulos and Saha Bashir Mohamed, Nesta, UK

[90] "Digital Data as a Resource: A Comprehensive Review and Implications for Governance" – Marco S. Minervini, Bocconi University, Italy

[101] "What is the resource footprint of a computer science department? Place, People, and Pedagogy" – I.S. Mian, Dave Twisleton (@davoloid), and Denis Timm, University College London

15:35 – 16:00 Break

16:00 – 17:00 Parallel Session 3

**Session 3a (Room A): Data and Policy Co-Creation**

**Chair:** Kenneth Benoit (@kenbenoit), London School of Economics and Political Science

[26] "While Implementing Fintech Advancement, Does Financial Regulation Unintentionally Ignore Less Privileged Populations? The Investigation of Regulatory Change, Objective and Subjective Financial Literacy" – Maya Haran Rosen and Orly Sade, Hebrew University, Israel

[81] "Policy Co-creation in the Era of Data Science" – Borut Sluban and Stefano Battiston (@zbattiz), University of Zurich, Switzerland

[105] "Classifying and searching through Parliamentary Questions" – Sam Tazzyman, Ministry of Justice, UK

**Session 3b (Room B): Data Modelling and Simulation for Policy Making**

**Chair:** Slava Michaylov, University of Essex

[47] "Applications of nowcasting for policymaking" - Álvaro Gómez-Losada and Panayotis Christidis, Joint Research Centre - European Commission, Spain; Dario Buono (@darb), Eurostat, Luxemburg

[82] "Indicators of humanitarian aid performance using online data: case-study of Afghanistan in 2015" – Peter De Ford, University of Warwick; Farooq Khan, Polymaths Consulting, UK; Javier Cuervo, Polymaths Consulting, Canada; Samuel Johnson, University of Warwick, UK

[98] "The long-term effects of inherited wealth on social equality" – James Allen, Sandtable, UK
**Session 3c (Room C):** Data Infrastructure for Policy: "Infrastructure to support access to data for research" – organised by the UK Administrative Data Research Network (ADRN)

**Chair:** Tanvi Desai, UK Administrative Data Research Network

[99a] Tanvi Desai, UK Administrative Data Research Network
[99b] Richard Welpton (@rwelpton), Cancer Research UK
[99c] Felix Ritchie, University of the West of England
[99d] Sarah Lowe, Welsh Government

**Session 3d (Room D):** Open Data and Policy Making

**Chair:** Ralph Schroder (@ralphschroeder), Oxford Internet Institute, University of Oxford

[18] "Transparency as an antidote to corruption in government contracting: antidote or mirage?" – Agnes Czibik, Government Transparency Institute, Hungary; Mihaly Fazekas (@mihaly_fazekas), University of Cambridge UK; Monika Bauhr, University of Gothenburg, Sweden

[95] "Open data: audit audiences or engaged publics?" – Anne L. Washington and David Morar (@morar), George Mason University, USA

[120] "Open Data Policies in Europe - why is it important, and what trends do we see?" – Wendy Carrara (@wcarrara), European Data Portal/Capgemini Consulting, France; Heleen Vollanders (@HeleenVollanders), and Jorn Berends (@berendsjorn), European Data Portal/Capgemini Consulting, Netherlands

17:00 – 19:30       Conference Reception

**Please continue to the next page for the second day’s programme**
Thursday, 7 September 2017

09:00 – 09:30  Tea & Coffee

09:30 – 10:30  Parallel Session 4

Session 4a (Room A): Digital Public Infrastructure

Chair: Stefaan Verhulst (@sverhulst), New York University, USA

[39] ”Mapping the digital government from a public administration perspective“ – Stijn Wouters and Joep Crompvoets, KU Leuven, Belgium

[59] “National ID programs: a multi-country review and analysis of policy and practical challenges” – Caroline L Anderson, University of Washington Evans School, USA; Pierre Biscaye (@pbiscaye), Evans School of Public Policy & Governance, USA; Travis Reynolds, Colby College; USA

[77] ”Big Data Test Infrastructure“ – Roberto Barcellan, Marco Fichera (@marco_fichera), and Tanya Chetcuti (@tanyachetcuti), European Commission, Belgium

Session 4b (Room B): Data for Crime Prevention and Policing

Chair: H. Scott Matthews, Carnegie Mellon University, USA

[9] ”What ails smart policing in India“ – Shivangi Narayan (@NittiGritties), Jawaharlal Nehru University, India

[52] ”More than Accomplices in Violence?: A Social Network Analysis of Boston Gang Members“ – Alexandra Ciomek, Harvard University, USA

[66] ”Small Area Estimation of Public Confidence“ – Dawn Williams, James Haworth, Tao Cheng, University College London; Marta Blangiardo, Imperial College London, UK

Session 4c (Room C): “Building self-service data science tools for policymakers“ – organised by the Government Digital Service (GDS)

Chair: Dawn Duhaney, Government Digital Service

[123a] ”Building the confidence of non-analytical data customers“ – Philippa Peasland, Product Manager for the Better Use of Data team at the Government Digital Service

[123b] ”Self-service data visualisation tools for policy makers“ – Ryan Dunn, Head of Data Science at the Department for Work & Pensions Newcastle Hub

[123c] ”Using data science to develop smarter digital services“ – Nicky Zachariou, Data Scientist in the Better Use of Data team at the Government Digital Service
Session 4d (Room D): Data Ownership, Security and Linkage

Chair: Diana Vlad-Calciuc, European Commission


[56] “Evaluating the Troubled Families Programme using Administrative Data: the benefits and challenges” – Lan-Ho Man and Liucija Latanauskaite, Department for Communities and Local Government (DCLG), UK

[127] “Fostering public trust as an integral part of the digital transformation of the public sector: designing sound data governance”, Barbara Ubaldi, The Organisation for Economic Co-operation and Development (OECD), France

10:30 – 11:00 Break

11:00 – 12:00 Keynote Lecture 2 (Room A)

“Algorithmic Government: Automating public services and supporting civil servants in using Data Science technologies?”

Philip Treleaven, Director of the UK Financial Computing Centre, University College London, UK

Chair: Helen Margetts (@HelenMargetts), Director of the Oxford Internet Institute, University of Oxford; The Alan Turing Institute

12:00 – 13:15 Lunch & Demonstrations

List of Demonstrations (Room E)

Chair: Jon Crowcroft, Computer Laboratory, University of Cambridge


[106] “Essex Data Platform Demonstrator project” – Liz Ridler, Essex County Council, UK; Stephen Simpkin, Essex County Council; Alison Foster, Pi

[111] “Nature-Smart Cities” – Sarah Gallacher (@sarah_gallacher), Intel; Kate Jones (@ProfKateJones), University College London

[112] “LDC’s ‘Smartstreetsensor’ Project: Mapping Footfall, Retail Occupancy and Vacancy” – Chris Fowler, The Local Data Company Ltd, UK

Imaduddin Amin (@imadnov), Pulse Lab Jakarta; Katarina Kohutova, World Food Programme; Muhammad Rheza, Pulse Lab Jakarta, Muhammad Subair, Pulse Lab Jakarta; George Hodge (@lurglomond), Pulse Lab Jakarta, Indonesia

[122] “Spark For Social Science” – Alex Engler (@AlexCEngler), Urban Institute, University of Chicago, USA

[124] “Citizen-driven monitoring of Sustainable Development Goals” – Anita Dhillon, Lee Kuan Yew School of Public Policy, India; Ian Reinert, Lee Kuan Yew School of Public Policy, USA; Dan Willett, Lee Kuan Yew School of Public Policy, Australia

13:15 – 14:15 Parallel Session 5

Session 5a (Room A): Data, Trust and Accountability

Chair: Ken Moody, University of Cambridge

[29] “A framework for unified privacy management in a multi-actor automated environment” – Kevin Miller (@labyrinthlaw), Labyrinth Law PLLC, USA

[41] “Practical priorities for data ethics” – Olivia Varley-Winter (@ovarwin), Royal Statistical Society, UK

[53] “Governance and Assessment of Future Spaces: a discussion of some issues raised by the possibilities of human-machine mergers” – Andelka Phillips (@AndelkaM) Trinity College Dublin, The University of Dublin, Ireland; I. S. Mian, University College London, UK

Session 5b (Room B): Data and Society

Chair: Jean Bacon, University of Cambridge

[12] “Unleashing the power of data for children: Building an advocacy agenda for data” – Emily Garin (@emily_garin), UNICEF, USA

[62] “Benefacts: an Irish case study in data analytics for public policy-makers” – Patricia Quinn, Benefacts (@Benefacts_ie), Ireland

[88] “Land Administration: A Big Data Perspective” – Sachin Garg, George Mason University, USA; Swapnil Garg, Indian Institute of Management, Indore, India

Session 5c (Room C): Data and Protecting Minors – “Predictive Analytics In Child Abuse and Neglect: Real world use-cases for fairness-aware, ethical and effective use of analytics in child welfare”

Chair: Rhema Vaithianathan (@RVaithianathan), Auckland University of Technology, New Zealand

[49a] “Implementing a Predictive Analytics Risk Scoring Tool for Allegheny County PA to help call workers screen children referred for child maltreatment” – Rhema
**Vaithianathan (@RVaithianathan), Auckland University of Technology, New Zealand**

[49b] “Predicting Child Welfare Involvement using the US Birth Record: An Exploratory Model Using Californian Birth Records” – Emily **Putnam-Hornstein**, University of South California, USA

[49c] "Fairness in Data-driven Decision-making” – Alexandra **Chouldechova**, Carnegie Mellon University, USA

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**Session 5d (Room D): Data Accessibility and Visualisation**

**Chair:** Anil **Bharath**, Imperial College London

[19] “Policy design patterns that help people use data to create impact” – Peter **Wells**, Open Data Institute, UK

[21] “Fake news and information asymmetries: Data as public good” – Dario **Buono** (@darbuo) and Emanuele **Baldacci** (@emibaldacci), Eurostat, Luxembourg


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**14:20 – 15:20 Parallel Session 6**

**Session 6a (Room A): Algorithmic Decision-making**

**Chair:** David **Pym**, University College London


[37] “To err is algorithm: Algorithmic fallibility and economic organisation” – Juan **Mateos-Garcia** (@JMateosGarcia) Nesta, UK

[86] “Governance and government in the time of algorithms” – Diana **Vlad-Câlcic**, (@dianavladcalcic), European Commission, Belgium

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**Session 6b (Room B): Urban Analytics and Policy Making II**

**Chair:** Mirco **Musolesi**, University College London

[58] “Using OpenStreetMap Data to Understand Urban Environments and Inform Policy: The Case of Alcohol Availability” – Jonathan **Bright** (@jonmbright), Oxford Internet Institute; Bharath **Ganesh** (@BharathGanesh), Oxford Internet Institute; Stefano **De Sabbat**, University of Leicester; Sumin **Lee**, Oxford Internet Institute; David **Humphreys**, (@DKHumphreys), University of Oxford, UK
Session 6c (Room C): "Better data for better policy" – organised by the Office for National Statistics (ONS)

Chair: Emma Rourke, Director of Public Policy Analysis, Office for National Statistics

[107] “Using administrative and survey data to classify UK finance sector organisations by activity” – Tom Smith, Khloe Evans, Louisa Nolan (@LouisaNolan), and Alexandre Noyvirt, Office for National Statistics


Session 6d (Room D): Data-driven Public Service Delivery

Chair: Philip Treleaven, University College London

[30] “Supporting decisions in public health policy-making – EVOTION” – Lyubov Trenkova, Pazardzhik Regional Administration, Bulgaria; Ariane Laplante-Lévesque, Eriksholm Research Centre, Denmark; George Spanoudakis (@GESpanoudakis) and Andrew Smith, City University London, UK; Josip Milas and Dario Brdaric, Institute of Public Health for the Osijek-Baranya County, Croatia

[33] “Towards a Data-driven Smart Governance in Nigeria” – Emeka Ogbuju, Isa Aminu and Abraham Musa Peter, Federal University Lokoja, Nigeria

[92] “Recommender Systems in Physical Retailing: Practices, Prospects and Policy Perspectives” – Qiwei Han, Carnegie Mellon University, USA; Leid Zejinilovic (@leid_zejinilovic), Nova School of Business and Economics, Portugal

15:20 – 15:40 Break

** Please continue to the next page**
**15:40 – 17:00**  
Closing Plenary Session

**Plenary:**  Reflections and Future Steps - Interactive Discussion

- Helen Margetts (@HelenMargetts), Director of the Oxford Internet Institute, University of Oxford; The Alan Turing Institute, UK
- Peter Smith, Director of the UK Administrative Data Research Network, University of Southampton, UK
- Stefaan Verhulst (@sverhulst), Co-founder and Chief Research and Development Officer of the Governance Laboratory (GovLab), New York University, USA
- Barbara Ubaldi, Head of the Digital Government and Open Data Unit, The Organisation for Economic Co-operation and Development (OECD), France
- Jon Crowcroft, Marconi Professor of Networked Systems, University of Cambridge; The Alan Turing Institute, UK

**Moderator:** Zeynep Engin (@ZeynepEngin), Founder, Data for Policy; University College London (UCL)

**17:00**  Final Remarks & End
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