4\textsuperscript{th} International Conference on Administrative Data Research
9 - 11 December 2019

The Royal Welsh College of Music & Drama,
Castle Grounds, Cathays Park,
Cardiff, CF10 3ER

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Public Data For Public Good
Welcome to the 4th International Conference on Administrative Data Research

We are delighted to welcome you to the 4th International Administrative Data Research Conference 2019 in Cardiff, Wales.

Administrative Data Research Wales is honoured to be hosting this year’s conference, building on past conferences held over recent years. Although a small nation, Wales has been at the forefront of efforts to make health and administrative data safely available for research for well over a decade. Traditionally, health data has received more attention, but recently, a greater breadth of administrative datasets are becoming available, opening up wonderful new opportunities for research for public benefit. This is part of the new and developing field of population data science, defined briefly as ‘the science of data about people’.

The increasing availability of government data for research is an important trend enabling population data science to penetrate deeper than ever before into social and economic issues. The use of administrative data and the ability to link records at an individual level to produce empirically based insights whilst protecting privacy, serves to effect positive change through evidence based policy making. However, the use of these vast data resources is still in its infancy with considerable challenges to overcome. This year, the 4th International ADR Conference aims to address such challenges towards lessening the gap between theory and practice.

The main theme of the conference is ‘Public Data and Public Good’ in recognition that the data are about the public and should be made best use of to generate good for the public. Working with an international Scientific Committee drawn from population data science initiatives across the globe, we have developed an innovative and exciting programme to present work spanning a range of activities to take administrative data research forward. The programme includes: applied research; case studies and concepts; ethical, legal and social issues, evidence to inform policy and practice; and methodological advances.

We are particularly pleased to have secured a wonderful set of keynote speakers to present thought-provoking talks in their areas of expertise.

We have worked closely with the Economic and Social Research Council and the Welsh Government and we extend our grateful thanks for their contribution to the conference. Organising a conference takes considerable time and effort(!) and we express our grateful thanks to the members of the international Scientific Committee for giving up their time and providing their expertise. We also thank everyone who took on the role of abstract reviewers. Particular thanks are due to the Organising Committee at Swansea University led by Stephanie Lee, without whose efforts and skills, the conference could not take place.

Finally, and very importantly, we thank you for attending and taking part in the conference. We hope you’ll take the opportunity to meet existing colleagues from other locations, to make new contacts and to build new collaborations to expand the worldwide population data science community.

We hope you enjoy the conference and that you take away good memories!

Professor David Ford
Professor of Informatics
Chair of ADR 2019 Conference

Professor Kerina Jones
Professor of Population Data Science
Chair of ADR 2019 Conference Scientific Committee

We would like to extend a heartfelt thanks to ADR 2019’s generous official sponsors, ADR UK, the Economic and Social Research Council (ESRC), part of UK Research and Innovation (UKRI) and the Welsh Government.

Your investment and support for this important international conference will enable the acceleration of vital research using administrative data, to improve and benefit societies worldwide.

Thank you!
International Scientific Committee

We would like to thank our esteemed Scientific Committee members for their hard work and dedication to producing an outstanding conference. Thank you all!

Professor Dennis Culhane
Professor of Social Policy
University of Pennsylvania, Philadelphia, USA

Professor Chris Dibben
Chair in Geography
University of Edinburgh, Scotland, UK

Dr. Merran Smith
Population Health Research Network
University of Western Australia, Perth, Australia

Professor Mark Elliot
Chair in Data Science
University of Manchester, England, UK

Dr. Peter Mackie
Reader
Cardiff University, Wales, UK

Professor Kim McGrail
Professor
University of British Columbia, Vancouver, Canada

Dr. Dermot O’Reilly
Clinical Professor
Queens University, Belfast, Northern Ireland

Professor Peter Smith
Professor of Social Statistics
University of Southampton, England, UK

Mr. Peter Stokes
Head of Microdata Access and Exploitation
Office for National Statistics, Wales, UK

Organising Committee

The Organising Committee members are based within Population Data Science at Swansea University Medical School, Wales, UK.

Stephanie Lee
FCIM Chartered Marketer
Head of Marketing, Communication & Engagement Services

Sharon Hindley
International Journal of Population Data Science Marketing Manager

Michael Bale
Graphic, Web Design & Development

Nicholas Corlett
Administrative Support & Abstracts Publishing

Rob Garlick
Administrator

Christopher Roberts
Communication & Engagement

Conference Chair
Professor David Ford
Professor of Informatics
Swansea University Medical School, UK

Scientific Committee Chair
Professor Kerina Jones
Professor of Population Data Science
Swansea University Medical School, UK

Conference Members

SCIENTIFIC COMMITTEE MEMBERS

Dr. Peter Mackie
Reader
Cardiff University, Wales, UK

Dr. Dermot O’Reilly
Clinical Professor
Queens University, Belfast, Northern Ireland

Mr. Peter Stokes
Head of Microdata Access and Exploitation
Office for National Statistics, Wales, UK

Workshop Coordinators & Facilitators

The conference committee for the 4th International Conference on Administrative Data Research thanks the workshops coordinators and facilitators for the time and effort they have put into creating and facilitating the workshop programme.

MAKING DATA RESEARCH READY
By Administrative Data Research UK
Monday 9th December 2019

Emma Gordon
Administrative Data Research UK

Paul Jackson
Administrative Data Research UK

Rosie French
Administrative Data Research UK

Bill South
Office of National Statistics

IMPACT WORKSHOP
By Administrative Data Research UK
Tuesday 10th December 2019

Dr Frances Burns
Administrative Data Research Northern Ireland (ADR NI), UK

Elizabeth Nelson
Administrative Data Research Northern Ireland (ADR NI), UK

Harriet Barker
Administrative Data Research Scotland (ADR Scotland), UK

Cathrine Richards
Administrative Data Research Wales (ADR Wales) and SAIL Databank, UK
The conference programme will include a range of presentations across the following topic areas to share new knowledge, generate discussion and promote collaboration opportunities:

- **Applied research**: work that has contributed new knowledge, using data linkage or population data sciences approaches. Research that is either complete or will have significant findings by the conference date.

- **Case studies and concepts**: research study protocols; local/case-specific technical developments; proof of concept studies; concept dictionaries; data resource descriptions; capacity building.

- **Ethical, Legal and Social Implications**: regulatory and governance challenges and solutions; confidentiality; data security; public and other stakeholder engagement; ethical issues; social acceptability.

- **Evidence to support policy making**: work generating evidence to inform policy making; engaging with policy makers; demonstrating and measuring impact.

- **Methodological and analytical advances**: dealing with large scale, complex and messy data; data linkage and quality; emerging data types; data visualisation; data interoperability.

ADR 2019 Conference topic areas
Keynote Speakers

**Professor Paul Boyle**  
Vice-Chancellor, Swansea University

Professor Paul Boyle has recently been appointed as Vice-Chancellor Elect at Swansea University. Prior to this he was President and Vice-Chancellor of the University of Leicester. Previously, Paul was Chief Executive of the Economic and Social Research Council (ESRC), the UK’s largest funding agency for social science research; the International Champion of Research Councils UK, with responsibility for international strategy on behalf of all seven UK research councils; and President of Science Europe, representing over 50 European funding agencies.

Paul is a Fellow of the British Academy, The Royal Society of Edinburgh, the Academy of Social Sciences, and the Royal Geographical Society of Scotland. He is Chair of the Scottish Science Advisory Council, which is Scotland’s highest level science advisory body; a Board Member of Universities UK, who provide leadership and support to executive heads of 133 UK University institutions as well as Chair of their Research Policy Network; Vice-President of the European University Association which represents over 800 universities in 48 countries; and a Council Member and Trustee of the Association of Commonwealth Universities, which has over 500 member institutions in 37 Commonwealth countries.

Paul is an ‘impact champion’ for the United Nations HeForShe global solidarity movement for gender equality and on the Advisory Board of Sporting Equals, promoting ethnic diversity in sport and physical activity.

**WELCOME SPEECH**

Monday 9th December 2019 | 18:00

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**Garry Coleman**  
Associate Director, Data Access – NHS Digital

Garry Coleman is a nationally recognised expert in Data Access, with over 25 years’ experience in NHS IT and Information Services. Garry is currently responsible for the delivery of data access, data quality and clinical trials services for NHS Digital.

He’s spent the past five years evangelising a sector-wide shift which is centred on providing access to quality data that keeps the health and care system running by fuelling research and driving improvement in treatment and public health, ensuring that the law is followed and NHS Digital acts ethically with citizen’s data rights respected. This approach has helped to rebuild trust in data sharing practice.

Throughout his career Garry has built a reputation for delivering services to help derive the benefits that can be gained from data, and working closely with researchers, NHS and Social Care organisations and commercial bodies to help achieve those benefits for all - whilst ensuring that data is kept and used appropriately and securely.

Embracing the core values of integrity, innovation and data-use transparency, Garry led the first release of the (at that time) largest health open data dataset in the UK - positioning the organisation as an exemplar of Government policy. He moved on to lead NHS Digital’s Data Access Request Service (DARS) as it became established, and now drives innovative NHS Digital services to develop, manage, disseminate and exploit linked national data assets.

Garry holds an MBA with Distinction (Health), a BSc in Mathematics and a Post-Graduate Diploma in Research Methods from Durham University. He is an honorary senior lecturer at the University of Leeds. Garry is a valued speaker on data access, regularly speaking at events in the UK and Internationally.

**PLENARY KEYNOTE**

Enabling research; Maintaining trust  
Monday 9th December 2019 | 12:50 - 13:20

NHS Digital is the information and technology partner to the NHS and Social Care system, with responsibilities that include standardising, collecting, publishing and enabling access to data and information from across the health and social care system in England. Information sharing has enabled the development of evidence-based medicine that underpins the care patients now receive in health and care systems around the world.

The effective planning and delivery of health and care are increasingly reliant on data and technology, with the demands being even greater as health systems provide personalised and precision medicine. The range of data sources is increasing along with our technical ability to make sense of them.

Organisations across the health and social care system are increasingly data-driven and are adopting new strategies, operating models, and ways of working to harness the value of data. The Internet of Things (IoT), advanced analytics and cloud hosting of data are becoming the norm. Benchmarking tools are becoming available to patients, clinicians and organisations. Machine learning and artificial intelligence are more widely used. Patients and the public are increasingly digitising. The huge growth in the use of smart phones and personalised services offered by other industries means that expectations and data channels have changed. At the same time, the public are acutely aware of the risks around the privacy and security of their data. Patients trust the NHS. Protecting their rights, being transparent and keeping the data about their care cyber-secure, is our top priority. Researchers are seeking to make even greater use of such rich, curated, linked datasets across multiple sectors; new opportunities for original research are opening up through such datasets.

NHS Digital has a unique set of opportunities to support this research, not least rooted in our statutory position and powers, and our place at the centre of the health and care system. Perhaps most importantly, we are privileged, as part of the NHS, to enjoy the conditional trust of the public. This session will cover how NHS Digital is meeting these data access challenges, developing robust and accessible services that ultimately benefit the health and social care system by working in partnership with research organisations, central government bodies, commissioners, local authorities, providers, clinicians, patients and more.

**Rebecca Evans**  
Minister for Finance and Trefnydd, Welsh Government

Rebecca Evans was first elected to the National Assembly for Wales in May 2011 to represent the Mid and West Wales region. In 2016 she became Assembly Member for Gower.

Rebecca received a degree in History from the University of Leeds, and a Master of Philosophy degree in Historical Studies from Sidney Sussex College, University of Cambridge. Before being elected, Rebecca worked in the third sector.

Rebecca has served on the National Assembly for Wales’ Environment and Sustainable Development Committee and its Common Agricultural Policy Task and Finish Group. She has also served on the Health and Social Care Committee, and the Children, Young People and Education Committee.

In June 2014, Rebecca was appointed Deputy Minister for Farming and Food, and in May 2016 she became Minister for Social Services and Public Health. In November 2017, she was appointed Minister for Housing and Regeneration, and in December 2018 she joined the Cabinet as Minster for Finance and Trefnydd.

**CONFERENCE OPENING ADDRESS**

Tuesday 10th December 2019 | 09:45 - 10:00

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**Leon Feinstein**  
Director of Evidence, Office of the Children’s Commissioner

Leon Feinstein is Director of Evidence at the Office of the Children’s Commissioner where he leads work on measurement, surveys and analysis in relation to the experiences and outcomes of children. From 2013 to 2016 Leon was Director of Evidence at the Early Intervention Foundation, an independent charity and “What Works” centre, working to evaluate the impact of early intervention.

From 2008 to 2013 Leon was a civil servant, working in the Treasury and the Cabinet Office on policy implementation and performance policy. Before joining the civil service Leon was Professor of Education and Social Policy at the Institute of Education. Leon’s academic research concerned the intergenerational transmission of advantage and disadvantage in terms of social structure, education and income. Leon is Visiting Professor of Practice at the LSE’s Centre for the Analysis of Social Exclusion.
There are many opportunities for mobilising the power of administrative data to generate new insights. In 2004, John became the 14th librarian to the House of Commons and was appointed as a Companion of the senior civil servant in 1992. He was the project manager for the creation of the Office for National Statistics and Exeter University. After several roles in different departments, John joined the Central Statistical Office as a John Pullinger has been the National Statistician, Head of the Government Statistical Service (GSS) and Chief Executive of the UK Statistics Authority since 1 July 2014. He has also been President of the Royal Statistical Society and Chair of the United Nations Statistical Commission (UNSC).

John's career began in 1980 when he joined the civil service after graduating in geography and statistics from Exeter University. After several roles in different departments, John joined the Central Statistical Office as a senior civil servant in 1992. He was the project manager for the creation of the Office for National Statistics and was the policy lead on the development of the GSS. He has worked on diverse projects and topics, including responsibility for flagship publications like ‘Social Trends’, leading the neighbourhood statistics programme as well as being actively involved in the creation of the Statistics Commission and National Statistics in 2000.

In 2004, John became the 14th librarian to the House of Commons and was appointed as a Companion of the Order of the Bath for services to Parliament and the Community in 2014.

### PLENARY KEYNOTE

**Vulnerability amongst children in England**

*Monday 9th December 2019 | 12:40 - 12:50*

Leon Feinstein will present the latest findings and analysis from the Children’s Commissioner for England of levels of vulnerability, need and risk amongst children in England. To inform this work we have developed an extensive set of indicators (71) of vulnerability, and reviewed all available data on trends, characteristics and outcomes of children in each of the 71 groups. The resulting findings are important not only in what they say about levels of need, but also in identifying very substantial gaps in knowledge. The analysis therefore requires a careful understanding of the nature of administrative data.

### INTRODUCTION KEYNOTE

**Professor Kerina Jones**

Professor of Population Data Science, Swansea University

Academic lead for Information Governance across the various Swansea University-based data-intensive linkage initiatives to ensure data protection and maximise data utility. Leading the active Innovative Governance working group of the Farr Institute: working collaboratively to advise and influence the developing data governance landscape to promote the safe reuse of data. Leading a research programme in IG, including work to inform cross-centre research and how emerging data types, such as genetic data, can be used in conjunction with structured micro-data. Strong interest in the development of innovative disease registers that incorporate patient reported data for combination with health data, notably, the UK MS Register. Regular advisor and invited speaker on data governance. Academic lead for Public Involvement and Engagement. Established a Consumer Panel for data linkage research. Leading public debates and engagement events on the use of anonymised data for research.

### PLENARY KEYNOTE

**John Pullinger**

Former Head of Government Statistical Service and Chief Executive, UK Statistics Authority

John Pullinger has been the National Statistician, Head of the Government Statistical Service (GSS) and Chief Executive of the UK Statistics Authority since 1 July 2014. He has also been President of the Royal Statistical Society and Chair of the United Nations Statistical Commission (UNSC).

John’s career began in 1980 when he joined the civil service after graduating in geography and statistics from Exeter University. After several roles in different departments, John joined the Central Statistical Office as a senior civil servant in 1992. He was the project manager for the creation of the Office for National Statistics and was the policy lead on the development of the GSS. He has worked on diverse projects and topics, including responsibility for flagship publications like ‘Social Trends’, leading the neighbourhood statistics programme as well as being actively involved in the creation of the Statistics Commission and National Statistics in 2000.

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### PLENARY KEYNOTE

**Lots of lovely numbers but why does everyone make it so difficult?**

*Tuesday 10th December 2019 | 10:00 - 10:30*

There are many opportunities for mobilising the power of administrative data to generate new insights to help governments, business, communities and individuals make better decisions. To make the most of these opportunities requires a careful understanding of the nature of administrative data.

By definition, administrative data used for research is about taking data collected for one purpose and using it for another. This presentation will explore the social licence needed to use administrative data for research, how to assess and assure the quality of data and communication of findings.

To create value from administrative data the researcher needs to care as much about respecting the data as about using it. A social licence is needed from the people or businesses included in the data. Does what is being proposed respect legal, ethical, confidentiality and security considerations? Equally a social licence is also needed from the custodial of the data. Are they convinced that these issues have been addressed and that the request being made to provide access is practical?

All aspects of survey data collection can be controlled by a research specialist and well known techniques adopted to evaluate precision and bias. Lurking beneath neat and tidy rows and columns of numbers can be errors and biases of many kinds that will invalidate analysis if not understood and taken into consideration.

Once the social licence (and the data) is obtained and the pitfalls of analysis are successfully navigated the most important test remains. How to get the findings used and not misused? How to communicate imprecision and lack of certainty without losing your audience? In short how to avoid both overclaiming and underclaiming on the new research evidence that has been generated?

Drawing on work done by the UK Statistics Authority and others, case studies will be used to bring out practical steps for researchers to ensure that the potential of administrative data is realised.

### PLENARY KEYNOTE

**The long and winding road: lessons from an inside job on the front line**

*Monday 9th December 2019 | 13:50 - 14:20*

Leon Feinstein will present the latest findings and analysis from the Children’s Commissioner for England of levels of vulnerability, need and risk amongst children in England. To inform this work we have developed an extensive set of indicators (71) of vulnerability, and reviewed all available data on trends, characteristics and outcomes of children in each of the 71 groups. The resulting findings are important not only in what they say about levels of need, but also in identifying very substantial gaps in knowledge that limits the capacity of policy and services to accurately define and address need. A substantial programme of work on data linking and other means is underway to address these gaps.

### PLENARY KEYNOTE

**Leon Feinstein**

Director of the ESRC Violence Research Programme (1997-2002) I was continually asked why violence was so invisible. That was not the experience of the researchers on the programme, nor did I ever find it difficult in my early studies of violence against women to uncover what is now referred to as #METOO strewn across administrative records. What was difficult (then as now) is seeking the data sharing agreements to explore government held, administrative records.

When I arrived at the London Metropolitan Police to work alongside the Racial and Violent Crimes Task force in 1999, the technical capability of transforming crime data into data on and about hate crime and domestic violence was limited. Twenty years have passed, and the digital transformation of administrative information on crime is very wide indeed. Sadly, the imagery about crime, and who is responsible for it, is largely driven not by knowledge but by outdated imagination. That said, this talk is about possibility, learning and enthusiasm for transforming routine crime data into insight and evidence about harm that benefits better government policy, police responses, and ultimately contributes to reducing the harm of criminality on all of us.

Engaging with policy makers and practitioners is not difficult. Using a strategic, data driven approach in this engagement is, especially when the data is (your own) administrative data. For two decades, I have worked in the police service to explore the use of crime data to describe crime problems (hate crime, domestic violence, rape and sexual assault and homophobic violence); to drive a strategic understanding of police decision making and outcomes of justice; and to enable a large, complex police force to improve continuously because they value what citizens and their own staff say about how the organisation works.

The lessons will be brigaded into three areas, using examples from the hundreds of small and large analytic projects (I only have 20 minutes!):

1. Using crime data as data (on crime, on victims, on offenders; on crime hot spots);
2. Insight vs evidence: influencing policy and practice;
3. The journey so far and where we need to go next.

### PLENARY KEYNOTE

**Betsy Stanko**

Chair, Ministry of Justice’s Data, Evidence and Science Board

Professor Betsy Stanko OBE retired (April 2016) as Head, Evidence and Insight, Mayor’s Office for Policing and Crime in London. She is currently Chair of the Ministry of Justice’s Data, Evidence, and Science Board, Strategic Advisor to a Home Office Police Transformation Fund project focused to uplift learning and development in policing across England and Wales and Academic Advisor to the Vulnerability and Serious Crime Programme at the College of Policing. Professor Stanko has been awarded a number of academic lifetime achievement awards, including the prestigious American Society of Criminology’s Vollmer Award (1996), recognising her outstanding influence on criminal justice practice.
Stefaan Verhulst
Co-founder and Chief Research and Development Officer, GovLab
Stefaan G. Verhulst is Co-Founder and Chief Research and Development Officer of the Governance Laboratory @NYU (GovLab) where he is responsible for building a research foundation on how to transform governance using advances in science and technology.

He is the Curator and Editor of the Living Library and The Digest.

Verhulst’s latest scholarship centres on how technology can improve people’s lives and the creation of more effective and collaborative forms of governance. Specifically, he is interested in the perils and promise of collaborative technologies and how to harness the unprecedented volume of information to advance the public good.

PLENARY KEYNOTE
Data Collaboratives: The emergence of public-private partnerships around Data for public good.
Wednesday 11th December 2019 | 12:00 - 12:30
In the past few years our work at The GovLab has sought to understand pathways to make policymaking and problem solving more evidence-based and data-driven. One line of our activities starts from the recognition of the potential of use of privately processed data through Data Collaboratives — a new form of public-private partnership in which government, private industry, and civil society work together to release previously siloed data, making it available to address societal challenges. Our research suggests that Data Collaboratives offer great potential to complement public data sources - when implemented strategically under the appropriate policy and ethical frameworks. Nonetheless, this remains a nascent field, and several barriers limit the systemic use of Data Collaboratives. In this presentation I will take stock of current practice, examine the variety of operational models and lessons learned with an eye toward developing approaches to make Data Collaboratives more effective, scalable, sustainable, and, above all, responsible.

Matthew Whittaker
Deputy Director, Resolution Foundation
Matt is Deputy Director at the Resolution Foundation, one of the UK’s leading economic think tanks. He joined the then fledgling Foundation in 2008 and took a lead role in developing its research focus on the living standards of low to middle income households, helping to establish the organisation’s reputation for combining rigorous analysis with a clear social purpose. He manages the Foundation’s research output, covering a broad range of topics including the labour market, the tax and benefit system, housing, consumer debt, public finances and macroeconomic policy. He was also chair of the technical panel that supported the two-year Intergenerational Commission that concluded in 2018.

He has published more than 50 reports for the Foundation and co-authored the UK chapter of Inequality and Inclusive Growth in Rich Countries, a major cross-country study of trends in inequality and growth published by OUP. He is an experienced broadcast and print media commentator, and has written for The Guardian, the Times, the Financial Times and the New Statesman among others. He serves on many working groups across Whitehall and beyond, and is a member of the National Statistician’s Advisory Panel for Consumer Price Statistics.

PLENARY KEYNOTE
Untargeted support? The importance of using admin data to assess the effectiveness of UK welfare policy
Child poverty rates fell sharply over the course of the late-1990s and early-2000s, thanks in part to the introduction of tax credits that supported parents – especially single mothers – into work. But, despite this improvement, the government still missed its targets (for the number of children in relative poverty to be cut by a quarter by 2004 and by half by 2010 relative to 1998-99). Or so we thought…

We know now that the Family Resources Survey data that is used to measure poverty rates under-reports household benefit receipt – by around £40 billion a year – relative to the totals we find in admin data. This talk explores the impact of adding this benefit data back into the analysis – lowering poverty levels overall, but also affecting the trends over time. Reassessing the effectiveness of tax credits in tackling child poverty under this new approach leads us to conclude that the policy was more successful than previously thought – with the stripping back of support over the austerity decade likewise doing more damage than official data would suggest.

And data limitations continue to undermine effective welfare policy making. With an eye to the future, the talk also reports on unprecedented admin data-based work that sheds new light on the realities of month-to-month fluctuations in employment income – with some important implications for the continued roll-out of Universal Credit.
The Gala Dinner will be hosted in the spectacular Cardiff Castle. Located within beautiful parklands at the heart of the capital, Cardiff Castle’s walls and fairy tale towers conceal 2,000 years of history.

Roman Fort
Probably established at the end of the 50s AD, on a strategic site that afforded easy access to the sea. Remains of the Roman wall can be seen today.

Norman Keep
Built after the Norman Conquest and re-using the site of the Roman fort.

Bute Family
In 1766 the castle passed by marriage to the Bute family. The 2nd Marquess of Bute was responsible for turning Cardiff into the world’s greatest coal exporting port. The Castle and Bute fortune passed to his son John, the 3rd Marquess of Bute, who by the 1860s was reputed to be the richest man in the world.

William Burges
From 1866 the 3rd Marquess employed the genius architect William Burges to transform the Castle lodgings. Within gothic towers he created lavish and opulent interiors, rich with murals, stained glass, marble, gilding and elaborate wood carvings. Each room has its own special theme, including Mediterranean gardens and Italian and Arabian decoration.

A gift to the city of Cardiff
Following the death of the 4th Marquess of Bute, the family decided to give the Castle and much of its parkland to the city of Cardiff.

The Gala dinner includes admission to Cardiff Castle, complimentary mead tasting on arrival, 3-course dinner prepared with Welsh produce, half a bottle of wine or soft drinks with dinner, and a full evening of Welsh entertainment.

Date: Tuesday 10th December 2019
Time: 19:00 – 20:30pm
Location: Cardiff Castle, Castle Street, CF10 3RB (8 minutes’ walk from the conference venue)
Entry: Pre-paid ticket holders only

Conference Workshops Programme Schedule

MAKING DATA RESEARCH READY
By Administrative Data Research UK
Monday 9th December 2019, 09:00 – 12:00pm
Room 2.05 (2nd Floor)
In the first year of operation, a big focus for ADR UK has been the development new, policy-relevant research-ready datasets that will be accessible to accredited researchers. This includes everything from having the infrastructure in place to host and access government administrative datasets, to working with departments to agree what data will be made available and building trust and engagement along the way. This workshop will be an opportunity to hear about our early successes, and for us to hear from participants about other administrative datasets that are currently under-utilised, which could potentially be hosted within the ADR UK infrastructure. In that way, participants can share in delivering the vision for ADR UK, moving forwards.

WHICH WAY IS UP? THE DIFFERENT PATHWAYS TO IMPACT IN DEVOLVED UK REGIONS
By Administrative Data Research UK
Tuesday 10th December 2019, 11:45 - 13:00
Studio Two (1st Floor)
This one hour session explores the different models and methods the Administrative Data Research centres in Scotland, Wales and Northern Ireland employ to secure the most effective and long-lasting pathways to impact for their research.

From government-academic partnerships to public panels and co-production models with the voluntary sector, there is no one way to develop and deliver impactful research. Engagement and impact specialists from the ADR Scotland, ADR Wales and ADR Northern Ireland will present case studies from their work to illustrate the different models employed to deliver research impact at the highest levels, and the challenges and emerging best practice.

This session will be suitable for researchers and engagement and impact professionals wanting to learn both about the models employed across the UK, to take learning from other regions to adapt and apply to their work, and to anyone interested in learning what is cutting-edge in administrative data research engagement and impact practice.
# Main Programme at a Glance

## MONDAY 9th DECEMBER

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<td>09:00 - 10:00</td>
<td>PRE-CONFERENCE WORKSHOP Making Data Research Ready by Administrative Data Research UK</td>
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<td>10:00 - 10:30</td>
<td>BREAK Mid Morning Tea &amp; Coffee</td>
<td>Linbury Gallery (Ground Floor)</td>
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<td>PLENARY SESSION 1 Dora Stoutzker Hall (Ground &amp; 1st Floors)</td>
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<td>BREAK Afternoon Tea &amp; Coffee</td>
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<td>WELCOME SPEECH             by Professor Paul Boyle, Vice-Chancellor of Swansea University, UK</td>
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<td>WELCOME DRINKS &amp; CANAPÉS RECEPTION Open to all delegates</td>
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## TUESDAY 10th DECEMBER

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<td>REGISTRATION</td>
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</tr>
<tr>
<td>09:30 - 11:15</td>
<td>PLENARY SESSION 2 Dora Stoutzker Hall (Ground &amp; 1st Floors)</td>
<td></td>
</tr>
<tr>
<td>11:15 - 11:45</td>
<td>BREAK Mid Morning Tea &amp; Coffee</td>
<td>Linbury Gallery (Ground Floor)</td>
</tr>
<tr>
<td>11:45 - 13:00</td>
<td>PARALLEL SESSION 4</td>
<td></td>
</tr>
<tr>
<td>13:00 - 14:00</td>
<td>LUNCH Linbury Gallery (Ground Floor)</td>
<td></td>
</tr>
<tr>
<td>14:00 - 15:00</td>
<td>RAPID FIRE SESSIONS</td>
<td></td>
</tr>
<tr>
<td>15:00 - 15:30</td>
<td>BREAK Afternoon Tea &amp; Coffee</td>
<td>Linbury Gallery (Ground Floor)</td>
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<tr>
<td>15:30 - 16:30</td>
<td>PARALLEL SESSION 5</td>
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</tr>
<tr>
<td>16:30 - 16:40</td>
<td>BREAK</td>
<td></td>
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<tr>
<td>16:40 - 18:00</td>
<td>PARALLEL SESSION 6</td>
<td></td>
</tr>
<tr>
<td>19:00 - 20:30</td>
<td>CONFERENCE DINNER (8 mins walk from Royal Welsh College of Music &amp; Drama)</td>
<td>Cardiff Castle</td>
</tr>
</tbody>
</table>

## WEDNESDAY 11th DECEMBER

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>08:30 - 09:45</td>
<td>REGISTRATION</td>
<td>Foyer</td>
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<tr>
<td>09:45 - 10:45</td>
<td>PARALLEL SESSION 7</td>
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<tr>
<td>10:45 - 11:15</td>
<td>BREAK Mid Morning Tea &amp; Coffee</td>
<td>Linbury Gallery (Ground Floor)</td>
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<tr>
<td>11:15 - 12:00</td>
<td>PARALLEL SESSION 8</td>
<td></td>
</tr>
<tr>
<td>12:00 - 13:00</td>
<td>PLENARY SESSION 3 Dora Stoutzker Hall (Ground &amp; 1st Floors)</td>
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</tr>
<tr>
<td>13:00</td>
<td>END OF CONFERENCE &amp; LUNCH-TO-GO</td>
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</tbody>
</table>
## Plenary Session 1
### Monday 9th December

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:30 - 12:40</td>
<td><strong>WELCOME KEYNOTE</strong></td>
<td>Professor David Ford, Swansea University</td>
</tr>
<tr>
<td>12:40 - 12:50</td>
<td><strong>INTRODUCTION KEYNOTE</strong></td>
<td>Professor Kerina Jones, Swansea University</td>
</tr>
<tr>
<td>12:50 - 13:20</td>
<td><strong>PLENARY KEYNOTE</strong></td>
<td>Garry Coleman, NHS Digital</td>
</tr>
<tr>
<td>13:20 - 13:50</td>
<td><strong>PLENARY KEYNOTE</strong></td>
<td>Matthew Whittaker, Resolution Foundation</td>
</tr>
<tr>
<td>13:50 - 14:20</td>
<td><strong>PLENARY KEYNOTE</strong></td>
<td>Leon Feinstein, Office of the Children’s Commissioner</td>
</tr>
<tr>
<td>14:20 - 14:30</td>
<td><strong>PANEL DISCUSSION</strong></td>
<td>Professor David Ford, Swansea University</td>
</tr>
<tr>
<td>18:30 - 19:30</td>
<td><strong>WELCOME SPEECH</strong></td>
<td>Professor Paul Boyle, Vice-Chancellor of Swansea University</td>
</tr>
</tbody>
</table>

## Plenary Session 2
### Tuesday 10th December

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30 - 09:45</td>
<td><strong>CONFERENCE OPENING REMARKS</strong></td>
<td>Professor David Ford, Swansea University</td>
</tr>
<tr>
<td>09:45 - 10:00</td>
<td><strong>CONFERENCE OPENING ADDRESS</strong></td>
<td>Rebecca Evans AM, Minister for Finance and Trefnydd, Welsh Government, Wales, UK</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td><strong>PLENARY KEYNOTE</strong></td>
<td>John Pullinger, Former Head, Government Statistical Service (GSS) and Chief Executive, UK Statistics Authority</td>
</tr>
<tr>
<td>10:30 - 11:00</td>
<td><strong>PLENARY KEYNOTE</strong></td>
<td>Betsy Stanko, Ministry of Justice’s Data, Evidence and Science Board</td>
</tr>
<tr>
<td>11:00 - 11:15</td>
<td><strong>PANEL DISCUSSION</strong></td>
<td>Professor David Ford, Swansea University</td>
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</tbody>
</table>

## Plenary Session 3
### Wednesday 11th December

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 - 12:30</td>
<td><strong>PLENARY KEYNOTE</strong></td>
<td>Stefaan Verhulst, GovLab, New York University</td>
</tr>
<tr>
<td>09:30 - 09:45</td>
<td><strong>PLENARY KEYNOTE</strong></td>
<td>Rebecca Evans AM, Minister for Finance and Trefnydd, Welsh Government, Wales, UK</td>
</tr>
<tr>
<td>10:00 - 10:30</td>
<td><strong>PLENARY KEYNOTE</strong></td>
<td>John Pullinger, Former Head, Government Statistical Service (GSS) and Chief Executive, UK Statistics Authority</td>
</tr>
<tr>
<td>10:30 - 11:00</td>
<td><strong>PLENARY KEYNOTE</strong></td>
<td>Betsy Stanko, Ministry of Justice’s Data, Evidence and Science Board</td>
</tr>
<tr>
<td>11:00 - 11:15</td>
<td><strong>PANEL DISCUSSION</strong></td>
<td>Professor David Ford, Swansea University</td>
</tr>
<tr>
<td>12:00 - 12:30</td>
<td><strong>CONFERENCE CLOSING REMARKS</strong></td>
<td>Professor David Ford, Swansea University</td>
</tr>
<tr>
<td>12:45 - 13:00</td>
<td><strong>BEST PAPER AWARD</strong></td>
<td>Dr Emma Gordon, ADR UK</td>
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<tr>
<td>13:00</td>
<td><strong>END OF CONFERENCE &amp; LUNCH-TO-GO</strong></td>
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</tbody>
</table>
### Parallel Session 1
**Monday 9th December | 15:05 - 16:05**

<table>
<thead>
<tr>
<th>Room</th>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Organisation/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room Dora Stoutzker Hall</td>
<td>15:05 - 16:05</td>
<td>Measuring and explaining the changing nature of work - The Linked Personnel Panel enriched with administrative employment data (LPP-ADIAB)</td>
<td>Stefanie Wolter</td>
<td>University of New South Wales, AUSTRALIA</td>
</tr>
<tr>
<td></td>
<td>15:25 - 15:45</td>
<td>One-year readmission and Emergency department presentation after an epilepsy admission in people with intellectual disability: a registry-linkage study</td>
<td>Pelven Liao</td>
<td>University of New South Wales, AUSTRALIA</td>
</tr>
<tr>
<td></td>
<td>15:45 - 16:05</td>
<td>The potential of linking cohort participants to official criminal records; a pilot study using the Avon Longitudinal Study of Parents and Children (ALSPAC)</td>
<td>Alison Teyhan</td>
<td>Bristol University, UK</td>
</tr>
<tr>
<td>The Office for National Statistics Longitudinal Study</td>
<td>15:45 - 16:05</td>
<td>Migration to Scottish New Towns and the impact on premature mortality in Glasgow: longitudinal analysis of linked Scottish Mental Survey 1947 and NHS Central Register data</td>
<td>Lynne Forrest</td>
<td>University of Edinburgh, UK</td>
</tr>
</tbody>
</table>

### Parallel Session 2
**Monday 9th December | 16:15 - 17:15**

<table>
<thead>
<tr>
<th>Room</th>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Organisation/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room Dora Stoutzker Hall</td>
<td>16:15 - 16:35</td>
<td>Association between receipt of social care and multimorbidity: evidence from a population-sized cohort in Scotland</td>
<td>David Henderson</td>
<td>Edinburgh Napier University, UK</td>
</tr>
<tr>
<td></td>
<td>16:35 - 16:55</td>
<td>Association between continuity of provider-adjusted regularity of general practitioner (GP) contact and diabetes-related hospitalisation: A data linkage study combining survey and administrative data</td>
<td>Rachael Moorin</td>
<td>Curtin University, AUSTRALIA</td>
</tr>
<tr>
<td></td>
<td>16:55 - 17:15</td>
<td>Association between levothropa and ischemic heart disease</td>
<td>Khalid Orayj</td>
<td>Cardiff University, UK</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Self-harm presentation across healthcare settings by sex in young people</td>
<td>Amanda Marchant</td>
<td>Swansea University, UK</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Building a research partnership between computer scientists and health service researchers for access and analysis of population-level health datasets: what are we learning?</td>
<td>Michael Schull</td>
<td>Institute for Clinical Evaluative Sciences, CANADA</td>
</tr>
</tbody>
</table>

**Room Dora Stoutzker Hall (Ground Floor)**

- **EVIDENCE TO SUPPORT POLICY MAKING**
- **APPLIED RESEARCH**
- **CASE STUDIES & CONCEPTS**
- **ETHICAL, LEGAL & SOCIAL IMPLICATIONS**
- **METHODOLOGICAL & ANALYTICAL ADVANCES**

- **1st Floor**
- **2nd Floor**

**Room Dora Stoutzker Hall (1st Floor)**

- Not in Employment, Education or Training (NEET); more than a youth policy issue
- Sexual crime against children with disabilities; a nationwide prospective birth cohort-study
- The Danish Center for Social Science Research, DENMARK

**Room Dora Stoutzker Hall (2nd Floor)**

- Strengthening the use of administrative data to provide gender statistics
- United Nations International Children's Emergency Fund (UNICEF), USA

**Room Dora Stoutzker Hall (2nd Floor)**

- Challenges and Principles to guide the linkage of government administrative data: Experiences from the Tassie Kids project
- Teledorphinks, AUSTRALIA

**Room Dora Stoutzker Hall (Ground Floor)**

- Developing data governance standards for using free-text data in research (TexGov)
- Swansea University, UK

**Room Dora Stoutzker Hall (1st Floor)**

- Quantifying multi-morbidity in an ethnically-diverse inner city population: the health burden of households
- Queen Mary University London, UK
# Parallel Session 3
**Monday 9th December | 17:25 - 18:25**

<table>
<thead>
<tr>
<th>Room</th>
<th>EVIDENCE TO SUPPORT POLICY MAKING</th>
<th>APPLIED RESEARCH</th>
<th>CASE STUDIES &amp; CONCEPTS</th>
<th>ETHICAL, LEGAL &amp; SOCIAL IMPLICATIONS</th>
<th>METHODOLOGICAL &amp; ANALYTICAL ADVANCES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dora Stoutzker Hall (Ground Floor)</td>
<td>Seligman (1st Floor)</td>
<td>Simon Gibson (2nd Floor)</td>
<td>Dame Shirley Bassey (2nd Floor)</td>
<td>Rowe-Beddoe (2nd Floor)</td>
</tr>
<tr>
<td></td>
<td>Nell Warner</td>
<td>Helen Soneksi</td>
<td>Amy O’Hara</td>
<td>Sara Correla</td>
<td>Jonathan Tan</td>
</tr>
<tr>
<td></td>
<td>Cardiff University, UK</td>
<td>Swansea University, UK</td>
<td>Georgetown University, USA</td>
<td>Swansea University, UK</td>
<td>Children’s Hospital of Philadelphia, USA</td>
</tr>
<tr>
<td>17:45 - 18:05</td>
<td>Assessing the impact on inequalities in use of orthodontic services of the introduction of an objective measure of treatment need in Northern Ireland</td>
<td>Long-term outcomes of urinary tract infection (UTI) in childhood: The LUCI study</td>
<td>Building a Canadian Data Platform under the Strategy for Patient-Oriented Research</td>
<td>Discriminative Data: Who uses it, why, and what difference does it make?</td>
<td>Development of an Injury Indicator Tool to Support Policy and Practice across Wales</td>
</tr>
<tr>
<td></td>
<td>Kishan Patel</td>
<td>Kathryn Hughes</td>
<td>Kim McGrail</td>
<td>Andrew Engeli</td>
<td>Samantha Turner</td>
</tr>
<tr>
<td></td>
<td>Queen University Belfast, UK</td>
<td>Cardiff University, UK</td>
<td>University of British Columbia, CANADA</td>
<td>Office of National Statistics, UK</td>
<td>Swansea University, UK</td>
</tr>
<tr>
<td>18:05 - 18:25</td>
<td>Evaluation of the Troubled Families Programme</td>
<td>The association between mother’s alcohol consumption during pregnancy and their child’s educational attainment and risk of hospital admission by age 14</td>
<td>Using administrative data sources to better understand student migration and circular travel patterns</td>
<td>Protecting children during child protection research using administrative data</td>
<td>Using record linkage to test representativeness of an ageing cohort</td>
</tr>
<tr>
<td></td>
<td>Lan-Ho Man and Ralph Halliday</td>
<td>Amrita Bandyopadhyay</td>
<td>Samaa Elsaandabessoe</td>
<td>Jade Hooper</td>
<td>Frances Burns</td>
</tr>
<tr>
<td></td>
<td>Ministry of Housing, Communities and Local Government, UK</td>
<td>Swansea University, UK</td>
<td>Office of National Statistics, UK</td>
<td>University of Stirling, UK</td>
<td>Queen University Belfast, UK</td>
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</table>

# Parallel Session 4
**Tuesday 10th December | 11:45 - 12:55**

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<tr>
<th>Room</th>
<th>EVIDENCE TO SUPPORT POLICY MAKING</th>
<th>APPLIED RESEARCH</th>
<th>METHODOLOGICAL &amp; ANALYTICAL ADVANCES</th>
<th>CASE STUDIES &amp; CONCEPTS</th>
<th>APPLIED RESEARCH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dora Stoutzker Hall (Ground Floor)</td>
<td>Seligman (1st Floor)</td>
<td>Simon Gibson (2nd Floor)</td>
<td>Dame Shirley Bassey (2nd Floor)</td>
<td>Studio Two (1st Floor)</td>
</tr>
<tr>
<td></td>
<td>Ana Corina Miller</td>
<td>Richard Tobin</td>
<td>University of Edinburgh, UK</td>
<td>Trent Alexander</td>
<td>By Administrative Data Research UK</td>
</tr>
<tr>
<td></td>
<td>Queen University Belfast, UK</td>
<td>Emma Ross</td>
<td>University of Edinburgh, UK</td>
<td>University of Michigan, USA</td>
<td>11:45 - 12:45</td>
</tr>
<tr>
<td>12:10 - 12:30</td>
<td>Co-producing a typology for Green and Blue spaces for a longitudinal, national dataset of Green and Blue spaces</td>
<td>Does the risk of poor mental health rise before adulthood</td>
<td>Unlocking the potential of health systems using privacy preserving record linkage: A pilot project exploring the research potential of developing a linkable general practice dataset</td>
<td>Developing a new cohort of children born to women who used opioids in pregnancy using administrative data: Insights into cohort creation and early results</td>
<td>This workshop is open to all delegates</td>
</tr>
<tr>
<td></td>
<td>Amy Milzen</td>
<td>Zhiqiang Fang</td>
<td>James Boyd</td>
<td>Louise Marryat</td>
<td>Office of National Statistics, UK</td>
</tr>
<tr>
<td></td>
<td>Swansea University, UK</td>
<td>University of Edinburgh, UK</td>
<td>La Trobe University, AUSTRAILIA</td>
<td>University of Edinburgh, UK</td>
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</tr>
<tr>
<td>12:35 - 12:55</td>
<td>Scottish Burden of Disease (SBOD) study: developments and findings of local estimates</td>
<td>Poor mental health and uptake of disability benefits</td>
<td>Household Matching for the 2021 Census</td>
<td>A public health approach to reducing violence: Can data linkage help to reduce demand on blue light services</td>
<td>Susan McVie University of Edinburgh, UK</td>
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</tbody>
</table>
Parallel Session 5  
Tuesday 10<sup>th</sup> December  | 15:30 - 16:30

<table>
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<tr>
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<th>CASE STUDIES &amp; CONCEPTS</th>
<th>APPLIED RESEARCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:30 - 15:50</td>
<td>Dora Stoutzker Hall (Ground Floor)</td>
<td>Seligman (1&lt;sup&gt;st&lt;/sup&gt; Floor)</td>
<td>Social services interventions and the Mental Health and Mortality of care leavers: a population based data linkage study in Northern Ireland and Finland</td>
<td>Dame Shirley Bassey (2&lt;sup&gt;nd&lt;/sup&gt; Floor)</td>
<td>Rowe-Beddoe (2&lt;sup&gt;nd&lt;/sup&gt; Floor)</td>
</tr>
<tr>
<td>15:30 - 15:50</td>
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<td>Measuring the burden of mental illness and substance use and the level and impact of health care response in patients with spinal trauma: a record linkage study</td>
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<td>15:30 - 15:50</td>
<td></td>
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<td>Lisa Sharwood Sydney University, AUSTRALIA</td>
<td>Using GIS to explore the impact of teenager's environments on this physical activity, fitness and motivation: a cross-sectional study using data from the ACTIVE Randomised Control Trial</td>
<td></td>
</tr>
<tr>
<td>15:50 - 16:10</td>
<td>Area Deprivation, Urbanicity and Severe Mental Illness - A Population-Based Linkage Study Using Routinely Collected Primary and Secondary Care Data</td>
<td>Simon Gibbon (2&lt;sup&gt;nd&lt;/sup&gt; Floor)</td>
<td>The Differential Privacy Corner: What has the US Backed Itself into?</td>
<td></td>
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</tr>
<tr>
<td>15:50 - 16:10</td>
<td></td>
<td></td>
<td>Amy O'Hara Georgetown University, USA</td>
<td>Using administrative data to understand the service interactions of people experiencing homelessness</td>
<td></td>
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<tr>
<td>15:50 - 16:10</td>
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<td></td>
<td>Ifeoma Onyeka Queen University Belfast, UK</td>
<td>Hannah Browne Gott Cardiff University, UK</td>
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<tr>
<td>16:10 - 16:30</td>
<td>Careers guidance provisions and progression to post-16 education: An empirical analysis for Wales</td>
<td></td>
<td>Suicide following presentation to emergency departments with suicidal ideation: a population-wide study</td>
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<tr>
<td>16:10 - 16:30</td>
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<td>Emma Ross Queen University Belfast, UK</td>
<td>iCoverT: A rich data source on the incidence of child maltreatment over time in England and Wales</td>
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</tbody>
</table>

Parallel Session 6  
Tuesday 10<sup>th</sup> December  | 16:40 - 18:00

<table>
<thead>
<tr>
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<th>CASE STUDIES &amp; CONCEPTS</th>
<th>APPLIED RESEARCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:40 - 17:00</td>
<td>Dora Stoutzker Hall (Ground Floor)</td>
<td>Seligman (1&lt;sup&gt;st&lt;/sup&gt; Floor)</td>
<td>Social services interventions and the Mental Health and Mortality of care leavers: a population based data linkage study in Northern Ireland and Finland</td>
<td>Dame Shirley Bassey (2&lt;sup&gt;nd&lt;/sup&gt; Floor)</td>
<td>Rowe-Beddoe (2&lt;sup&gt;nd&lt;/sup&gt; Floor)</td>
</tr>
<tr>
<td>16:40 - 17:00</td>
<td></td>
<td></td>
<td>Aileen Maguire Queen University Belfast, UK</td>
<td>The looked after children in time: Creating and analysing longitudinal data on placement history and educational outcomes</td>
<td></td>
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<tr>
<td>16:40 - 17:00</td>
<td></td>
<td></td>
<td>Brian Stokes University of Tasmania, AUSTRALIA</td>
<td>Gillian Raab University of Edinburgh, UK</td>
<td></td>
</tr>
<tr>
<td>16:40 - 17:00</td>
<td>Careers Guidance and Transitions to Further Education in Wales</td>
<td>Simon Gibson (2&lt;sup&gt;nd&lt;/sup&gt; Floor)</td>
<td>Spatially Enabling The Master Linkage Map – Getting Straight To The Point</td>
<td>Celia MacIntyre Scottish Government</td>
<td></td>
</tr>
<tr>
<td>16:40 - 17:00</td>
<td></td>
<td></td>
<td>Brian Stokes University of Tasmania, AUSTRALIA</td>
<td>Linked Administrative Data at Statistics Canada – new data resources for horizontal research</td>
<td></td>
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<tr>
<td>16:40 - 17:00</td>
<td></td>
<td></td>
<td></td>
<td>Li Xue Government of Canada, CANADA</td>
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</tr>
<tr>
<td>17:00 - 17:20</td>
<td>Educational outcomes of children in Wales with cerebral palsy</td>
<td></td>
<td>The Unmet Need for Psychotropic Medication within the Migrant Population of Northern Ireland - A Record Linkage Study</td>
<td></td>
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<tr>
<td>17:00 - 17:20</td>
<td></td>
<td></td>
<td>Hywel Jones Cardiff University, UK</td>
<td>Linked Administrative Data at Statistics Canada – new data resources for horizontal research</td>
<td></td>
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<tr>
<td>17:00 - 17:20</td>
<td></td>
<td></td>
<td>Kishan Patel Queen University Belfast, UK</td>
<td>Unleashing The Power Of Your Master Linkage Map - Is There A Role For Business Intelligence Tools In Supporting Data Linkage</td>
<td></td>
</tr>
<tr>
<td>17:00 - 17:20</td>
<td>Education and health outcomes of children treated for chronic conditions</td>
<td></td>
<td>Born into Care: characterising newborn babies and infants in care proceedings in England and Wales</td>
<td></td>
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<tr>
<td>17:00 - 17:20</td>
<td></td>
<td></td>
<td>Michael Fleming Glasgow University, UK</td>
<td>The Welsh Government Flying Start Data Linking Project</td>
<td></td>
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<tr>
<td>17:00 - 17:20</td>
<td></td>
<td></td>
<td>Iftime Onyeka Queen University Belfast, UK</td>
<td>Tony Whiffen &amp; Laura Herbert Swansea University, UK</td>
<td></td>
</tr>
<tr>
<td>17:20 - 18:00</td>
<td>Gender and STEM Subject Choice</td>
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<td>Hidden Harms of Hypnotics: a population based record linkage study of psychotropic medication and suicide risk</td>
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<td>17:20 - 18:00</td>
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<td></td>
<td>Anne Gasteen University of Stirling, UK</td>
<td>The Nuffield Family Justice Observatory Data Partnership</td>
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<td>17:20 - 18:00</td>
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<td>The use of Administrative Data to combat non-response</td>
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<td>17:20 - 18:00</td>
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<td>Matthew Moore University of Stirling, UK</td>
<td>Unleashing The Power Of Your Master Linkage Map - Is There A Role For Business Intelligence Tools In Supporting Data Linkage</td>
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<td>17:20 - 18:00</td>
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<td>Lucy Griffiths and Rhodri Johnson Swansea University, UK</td>
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<td>17:20 - 18:00</td>
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<td>Brian Stokes University of Tasmania, AUSTRALIA</td>
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<tr>
<td>17:40 - 18:00</td>
<td>Understanding recurrent care proceedings: Competing risks of how mothers and fathers enter subsequent care proceedings in England</td>
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<td>The use of Administrative Data to combat non-response</td>
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<td>17:40 - 18:00</td>
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<td>Stuart Bedson Lancaster University, UK</td>
<td>The Office for National Statistics Administrative Data Research Programme</td>
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<td>17:40 - 18:00</td>
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<td>Anne Gasteen University of Stirling, UK</td>
<td>Claire Shenton &amp; Lucy Tinkler Office of National Statistics, UK</td>
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<td>17:40 - 18:00</td>
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<td></td>
<td>The use of Administrative Data to combat non-response</td>
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</table>
### Parallel Session 7
**Wednesday 11th December | 09:45 - 10:45**

<table>
<thead>
<tr>
<th>Room</th>
<th>Evidence to Support Policy Making</th>
<th>Methodological &amp; Analytical Advances</th>
<th>Case Studies &amp; Concepts</th>
<th>Ethical, Legal &amp; Social Implications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dora Stoutzker Hall (Ground Floor)</td>
<td>The Emerging Crisis of Aged Homelessness in the US: Could Cost Avoidance in Health Care Fund Housing Solutions?</td>
<td>Identifying Military Veterans in a Clinical Research Database using Natural Language Processing Daniel Leightley King’s College London Centre for Military Health Research, UK</td>
<td>Dame Shirley Bassey (2nd Floor)</td>
<td>Rowe-Beddoe (2nd Floor)</td>
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<tr>
<td>Dennis Culhane University of Pennsylvania, USA</td>
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<td>Screening drugs for bone fracture risk: a nationwide longitudinal study using the national SNDS claims database Emmanuel Bacry The French Health Data Hub, University Paris-Dauphine, FRANCE</td>
<td>Inform: Improving care for people who frequently call 999: co-production of guidance through an Observational study using Routine linked data and Mixed methods Ashra Khanom Swansea University, UK</td>
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<td>Seligman (1st Floor)</td>
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<tr>
<td>09:45 - 10:05</td>
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<tr>
<td>Jiao Song Public Health Wales, UK</td>
<td>Homelessness and health needs in Wales Florian Endel Vienna University of Technology, AUSTRIA</td>
<td>An instrumental variable approach to estimation of match probabilities or precision in linked data James Doidge Intensive Care National Audit and Research Centre, UK</td>
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<tr>
<td>09:45 - 10:05</td>
<td>ATC-ICD: enabling domain experts to explore and evaluate machine learning models estimating diagnoses from filled predictions Florian Endel Vienna University of Technology, AUSTRIA</td>
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<td>09:45 - 10:05</td>
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<tr>
<td>Peter Mackie Cardiff University, UK</td>
<td>The prevention priority: linking education and homelessness data to inform policy and practice</td>
<td>Defining Acute Kidney Injury Episodes Gareth Davies Swansea University, UK</td>
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<td>09:45 - 10:45</td>
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<tr>
<td>10:05 - 10:25</td>
<td></td>
<td>Exploratory versus experimental design: overcoming the prejudice of ‘data dredging’ Sarah Jane Jones Birmingham City University / Health Foundation, UK</td>
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<td>10:05 - 10:25</td>
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<td>10:05 - 10:25</td>
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<td>Repeateable Research Infrastructure Enabling Administrative Data Analysis Dan Thayer Swansea University, UK</td>
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<td>10:25 - 10:45</td>
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<td>10:25 - 10:45</td>
<td></td>
<td>An outline framework for the efficient onward-sharing of linked Longitudinal Population Study and NHS Digital records Andy Boyd Bristol University, UK</td>
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<td>10:25 - 10:45</td>
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### Parallel Session 8
**Wednesday 11th December | 11:15 - 11:55**

<table>
<thead>
<tr>
<th>Room</th>
<th>Evidence to Support Policy Making</th>
<th>Methodological &amp; Analytical Advances</th>
<th>Case Studies &amp; Concepts</th>
<th>Ethical, Legal &amp; Social Implications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dora Stoutzker Hall (Ground Floor)</td>
<td>Better data, better knowledge, better society: Developing an ideal homelessness data system drawing on lessons from global practice</td>
<td>Using linked English cancer registration data to assess variation in diagnostic pathway length Clare Pearson Cancer Research UK, UK</td>
<td>Dame Shirley Bassey (2nd Floor)</td>
<td>Rowe-Beddoe (2nd Floor)</td>
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<td>Ian Thomas Cardiff University, UK</td>
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<td>11:15 - 11:35</td>
<td></td>
<td>Data resource description: National Cancer Registration Dataset in England Katherine Henson Public Health England, UK</td>
<td>Developing a training curriculum for researchers working with routine data: understanding professional and lay stakeholder priorities - The CENTRIC Study Mike Robling Cardiff University, UK</td>
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<td>11:15 - 11:35</td>
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<td>Victoria Coathup Oxford University, UK</td>
<td>Evaluating record linkage of birth registration and notification records to Hospital Episode Statistics: Singleton births in 2005 and 2006 across England</td>
<td>Overcoming the misrepresentation of disease burden associated with single aggregation choropleth maps through combining information from many aggregations David Whyatt University of Western Australia, AUSTRALIA</td>
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<tr>
<td>11:35 - 11:55</td>
<td></td>
<td>Data resource description: Systemic Anti-Cancer Therapy (SACT) Dataset Chloe Bright Public Health England, UK</td>
<td>Piloting a Safe Health Researcher course Louise Corti University of Essex, UK</td>
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<td>11:35 - 11:55</td>
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<tr>
<td>Room</td>
<td>EVIDENCE TO SUPPORT POLICY MAKING</td>
<td>METHODOLOGICAL &amp; ANALYTICAL ADVANCES</td>
<td>CASE STUDIES &amp; CONCEPTS</td>
<td>ETHICAL, LEGAL &amp; SOCIAL IMPLICATIONS</td>
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<tr>
<td></td>
<td>Dora Stoutzker Hall (Ground Floor)</td>
<td>D. Seligman (2nd Floor)</td>
<td>S. Gibson (2nd Floor)</td>
<td>D. Shirley Bassey (2nd Floor)</td>
</tr>
<tr>
<td>14:00 - 14:05</td>
<td><strong>Is there equity of access to revascularization in Wales by socioeconomic deprivation?</strong> Lloyd Evans NHS Wales, UK</td>
<td>Linked to the survey dataset about the impact of interventions on the use of primary care extended hours, an administrative data study Adelia Jenkins University of Pennsylvania, USA</td>
<td><strong>Using Linked Administrative Data to Enhance the Tables, We Need Ideas</strong> Antony Stevens Brazil Ministry of Health, BRAZIL</td>
<td><strong>LINKAGE: Factors in selecting a data linkage approach</strong> Kerina Jones Swansea University, UK</td>
</tr>
<tr>
<td>14:06 - 14:11</td>
<td><strong>Using Linked Administrative Data to Measure Earnings Mobility of Public Assistance Recipients during the Great Recession</strong> Sally Wallace Georgia State University, USA</td>
<td>Harnessing administrative data for humanitarian responses Karen Carter United Nations International Children’s Emergency Fund (UNICEF), USA</td>
<td><strong>Estimates of mortality rates in people with diabetes and cardiovascular disease using administrative pharmaceutical data</strong> Shaun Purkiss La Trobe University, AUSTRALIA</td>
<td><strong>Combining Hungarian Administrative Data with Google Search Trends to Predict Tendencies in Local Public Health and Consumer Behaviour</strong> Dorottya Molnár-Kovács University of Debrecen, HUNGARY</td>
</tr>
<tr>
<td>14:12 - 14:17</td>
<td><strong>Depression and changes in educational attainment using administrative data: The role of socio-demographic characteristics</strong> Alice Wickersham Kings College London, UK</td>
<td>The impacts of pre-apprenticeship training for young people Richard Dorsett University of Westminster, UK</td>
<td><strong>Incidence of drug-treated chronic diseases using administrative pharmaceutical data</strong> Shaun Purkiss La Trobe University, AUSTRALIA</td>
<td><strong>The New Brunswick COPI Health Information Platform</strong> Ted McDonald University of New Brunswick, CANADA</td>
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<tr>
<td>14:18 - 14:23</td>
<td><strong>National Therapeutic Indicators in Scotland and Financial Incentives</strong> Seán Macbride-Stewart NHS Scotland, UK</td>
<td>How does number of births in England and Wales vary by time of day, day of the week and place of birth? An analysis using linked administrative data Alison Macfarlane City, University of London, UK</td>
<td><strong>Estimates of age-specific death rates and mortality risk using administrative pharmaceutical data</strong> Shaun Purkiss La Trobe University, AUSTRALIA</td>
<td><strong>Exploiting Administrative Data to Understand the Mental Health of Children Known to Services</strong> Sarah McKenna Queen University Belfast, UK</td>
</tr>
<tr>
<td>14:24 - 14:29</td>
<td><strong>The case for integrated transport and health surveillance in Wales</strong> Sarah Jones NHS Wales, UK</td>
<td>Risk factors for young people not in education, employment or training (NEET) using the Scottish Longitudinal Study Dawn Everington University of Edinburgh, UK</td>
<td><strong>Variations in the use and availability of formal and informal care at the end of life over time and space</strong> Anna Schneider Edinburgh Napier University, UK</td>
<td><strong>Increasing the understanding of patterns of behaviours for alcohol in Wales using R</strong> Khiian Hughes NHS Wales, UK</td>
</tr>
<tr>
<td>14:30 - 14:35</td>
<td><strong>Geographical factors in access: investigating the impact of distance on the use of primary care extended hours, an administrative data study</strong> Jen Murphy University of Manchester, UK</td>
<td>Social media engagement and health Alisha Davies Public Health Wales, UK</td>
<td><strong>Linkage of Primary Care Prescribing Records and Pharmacy Dispensing Records in Asthma Controller Medications</strong> Holly Tickle University of Edinburgh, UK</td>
<td><strong>Early life cognitive ability and recovery from stroke</strong> Drew Altschul University of Edinburgh, UK</td>
</tr>
<tr>
<td>14:36 - 14:41</td>
<td><strong>The Impact of Gender and Socio-economic Background on Attainment in Scottish State Secondary Schools</strong> Anne Gasteen University of Stirling, UK</td>
<td>The Influence of Non-Clinical Patient Factors on Clinical Decision Making: Uncoupling the Impact on Mental Health Lauren Burns Swansea University, UK</td>
<td><strong>The Hazards and Rewards of Screening Using a Population Register: The Case of HAGS</strong> David Bell University of Stirling, UK</td>
<td><strong>Measuring the Dynamic Risk of Further Offending: A Feasibility Study</strong> Helen Hodges Cardiff University, UK</td>
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<tr>
<td>14:42 - 14:47</td>
<td><strong>Allocating Unique Property Reference Numbers (UPRNs) to general practitioner-recorded patient addresses using a deterministic address-matching algorithm: evaluation of representativeness and bias in an ethnically diverse inner city population</strong> Gill Harper Queen Mary University London, UK</td>
<td>Assessing the health impacts of adults’ participation in sports: investigating the role of accessibility to sport facilities Theodora Pouliou Swansea University, UK</td>
<td><strong>Assessing the health impacts of adults’ participation in sports: investigating the role of accessibility to sport facilities</strong> Theodora Pouliou Swansea University, UK</td>
<td>Developing and evaluating national severity distributions for use in Burden of Disease studies: a case study of cancers in Scotland Grant Wyper NHS Scotland, UK</td>
</tr>
<tr>
<td>14:48 - 14:53</td>
<td><strong>High-dimensional propensity score adjustment in HIV research using linked administrative health data</strong> Taylor McLinden University of British Columbia, CANADA</td>
<td>An Administrative Data Maturity Model - Building national administrative data capacity to produce results for children Karen Carter United Nations International Children’s Emergency Fund (UNICEF), USA</td>
<td><strong>An Administrative Data Maturity Model - Building national administrative data capacity to produce results for children</strong> Karen Carter United Nations International Children’s Emergency Fund (UNICEF), USA</td>
<td><strong>Selective serotonin reuptake inhibitors use in pregnancy: a risk assessment study using administrative pharmaceutical data</strong> Shaun Purkiss La Trobe University, AUSTRALIA</td>
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WIFI
Complimentary wireless internet access is available to conference delegates throughout the 3 days of the conference. The username and password will be provided upon arrival at the conference.

REGISTRATION
Delegate badges will be made available at the registration desk positioned in the entrance foyer. Badges must be worn at all times for admission to all sessions including refreshments and lunches throughout the 3-day conference.

The registration desk will be open as follows:

- **Monday 9th December** 08:30 – 19:30
- **Tuesday 10th December** 08:30 – 18:00
- **Wednesday 11th December** 08:30 – 13:00

CONFERENCE GUIDE
The conference will not be printing and distributing hard copies of the conference guide onsite so please either print or download the conference programme in advance from the website. The conference guide is available on ijipds.org/adr2019

MEALS
Lunches and refreshments are provided during the 3-day conference, all served in the Linbury Gallery on the first floor. On the final day of the conference, all delegates are provided with a packed lunch-to-go.

The Welcome Drinks Reception taking place on Monday 9th December from 18:30 is open to all delegates.

The Gala Dinner taking place in Cardiff Castle must be pre-booked and only ticket holders will be permitted entry.

BY BIKE
The venue is easily accessible by bike. A cycle path along North Road runs directly past the college campus and links with the Taff Trail, Route 8 of the National Cycle Network which runs alongside the River Taff.

BY TAXI
Taxis from the Cardiff Central train station will cost approximately £5 - £6.

ACCOMMODATION
Cardiff has a wide range of hotel accommodation to suit all tastes and budgets. To browse alternative options and to make your reservation, simply follow this link.

Hilton Cardiff
Hilton Cardiff is the closest in proximity to the ADR 2019 venue. The Hotel is delighted to offer ADR 2019 delegates a **10% discount** on room bookings. This is a flexible rate for Bed and Breakfast with no upfront payment required.

Simply enter this code: **ASWUNI** when booking to claim your 10% discount.

PARKING
Parking spaces at the venue are restricted to disabled badge-holders only. However, there are pay-and-display car parks adjacent to the venue on either side.

There is further parking available throughout the Civic Centre, opposite the venue’s main entrance on the other side of North Road, and is operated via a pay-and-display system.

There are also a number of multi-storey car parks in the city centre, 5-10 minutes walk from the venue.

ON FOOT
Situated in the Centre of Cardiff, the venue is close to several public transport hubs, making ideal for reaching on foot. It is just a 20 minute walk from Cardiff Central Station, 15 minutes from Cardiff Queen Street and 5 minutes from Cathays Station.

BY BUS
Local and regional bus services (Cardiff Bus 21, 23, 25 and 27) regularly pass the front door of the venue as do a range of services on the Stagecoach and National Express network. Buses depart from the main bus terminus in front of Cardiff Central train station.

Visit the [Cardiff Bus website](#) or telephone 029 2066 6444 for further details.
Participating Organisations

Special thanks to all participating organisations:

**AUSTRALIA**

Melbourne
La Trobe University

Perth
Curtin University
Population Health Research Network, The University of Western Australia
Telethon Kids Institute, Perth Children's Hospital
The University of Western Australia

Sydney
The University of New South Wales
The University of Sydney

Tasmania
University of Tasmania

**CANADA**

Alberta
Alberta Health Services, Alberta Ministry of Health

British Columbia
British Columbia Centre for Excellence in HIV/AIDS, St. Paul's Hospital
Population Data BC, The University of British Columbia
The University of British Columbia

Manitoba
Manitoba Centre for Health Policy
University of Manitoba

New Brunswick
University of New Brunswick

**HUDBURY**

Debrecen
University of Debrecen

**REPUBLIC OF IRELAND**

Dublin
Health Research Board

**UNITED KINGDOM**

UK Government
Data, Evidence and Science Board, Ministry of Justice
Department for Work and Pensions
Home Office
Ministry of Housing, Communities and Local Government
Ministry of Justice
Office for National Statistics
Office for Statistics Regulation - UK Statistics Authority
ADR UK - Administrative Data Research UK (funded by the Economic and Social Research Council, part of UK Research and Innovation)

England
Birmingham City University
Cancer Research UK in partnership with Public Health England
CeLSIUS - Centre for Longitudinal Study Information and User Support, University College London
Centre for Child and Family Justice Research,
NISRA - Northern Ireland Statistics & Research Agency
Queen’s University Belfast
Ulster University

Scotland
ADR Scotland - Administrative Data Research Scotland, The University of Edinburgh
Generation Scotland, The University of Edinburgh
National Records of Scotland
NHS Health Scotland
The Scottish Government
The University of Edinburgh
University of Aberdeen
University of Glasgow
University of Stirling

Wales
ADR Wales - Administrative Data Research Wales, partnership between Swansea University, Cardiff University and Welsh Government
Cardiff University
Centre for Trials Research, Cardiff University
Division of Population Medicine, Cardiff University
HDRUK - Health Data Research UK (Wales & Northern Ireland)
HealthWise Wales
Homeless World Cup Cardiff Legacy
National Centre for Population Health & Wellbeing Research
NHS Wales
NHS Wales Informatics Service
NWCPP - North Wales Clinical Psychology Programme, Bangor University
Public Health Wales
School of Law and Politics, Cardiff University
Social Care Wales
Swansea Bay University Health Board
Swansea University
Swansea University Medical School
University of South Wales
Wales Centre for Public Policy, Cardiff University

Welsh Cancer Intelligence and Surveillance Unit, Public Health Wales
Welsh Government
WISERD - Wales Institute of Social & Economic Research, Data and Methods, Cardiff University

Republic of Rwanda
Kigali
Community Based Sociotherapy (CBS Rwanda)

United States of America
Atlanta
Andrew Young School of Policy Studies, Georgia State University
Georgia State University

California
Institute for Research in the Social Sciences, Stanford University

Michigan
University of Michigan

New York
The GovLab, New York University’s Tandon School of Engineering
UNICEF - United Nations International Children’s Emergency Fund

Oklahoma
Asemio LLC

Philadelphia
AISP - Actionable Intelligence for Social Policy, University of Pennsylvania
Children’s Hospital of Philadelphia
University of Pennsylvania

Washington DC
Georgetown University