

Annex A Landscape Review Table

Organisation	Key User-focused Data Ethics Activities					
	Ethical Principles	User-focused Applied Ethics Guidance	User Ethics Training	User Ethics Support	Ethics Committee	Other
Centre for Data Ethics and Innovation (CDEI)	Principles related to public data sharing .	Key questions to consider in public sector data sharing projects ; examples of potential mitigating actions in use of AI .				Established ' Public Attitudes to Data and AI ' (PADAI) network for cross-Whitehall organisations; collaborative projects with Police Scotland, MoD and Bristol City Council in developing applications ; exploration of privacy enhancing technologies for trustworthy use of data .
Alan Turing Institute (ATI)	Principles related to AI ethics , in collaboration with Government Digital Service (GDS) and Office for AI (OAI).	Operationalised Process-based Governance Framework for ethical AI development ; definitions, processes and checklists for explaining AI in practice (in collaboration with Information Commissioner's Office).			Ethics Advisory Group .	Online seminars / masterclasses such as introduction to data ethics, process fairness, AI ethics; Data Ethics Group .
Ada Lovelace Institute (ALI)	Consideration of principles related to data stewardship .	Key aspects to consider for data stewardship mapped to case studies in spreadsheet format; practical methods and terms related to algorithm audits and algorithmic impact assessments (in collaboration with DataKind); explanation of different data transparency mechanisms .				Recent events held on what forms of mandatory reporting can help achieve public sector algorithmic accountability, data stewardship, inspecting algorithms in social media platforms.

Royal Statistical Society (RSS)	Principles related to ethical data science , big data .	One-page implementation checklist and what and how table for each principle.				Data Ethics and Governance Section ; Ethics 'Happy Hours' convened by Data Science Section.
Open Data Institute (ODI)	Lever for a more open, trustworthy data ecosystem covered in general manifesto , and applications related to data sharing in specific sectors .	Practical tool to explore questions related to the ethics of data-related projects ; guidance on anonymisation techniques.	Introduction to data ethics and the data ethics canvas; development of a data ethics facilitator course.	Provide advisory services related to data ethics practices .		
Economic and Social Research Council (ESRC, UKRI)	Principles for ethical research .	Case studies and guidance on internet mediated research; research with children and young people; research with potentially vulnerable people; international research; data requirements.				
Medical Research Council (MRC, UKRI)	Principles related to good research practice .	Range of guidance materials related to topics including data sharing, consent, confidentiality, research involving children, and research in developing societies.	Training related to consent, transparency, confidentiality and GDPR.	Support and advice for those conducting research with human participants, their tissues or data.		
West Midlands Police and Crime Commissioner (WMP PCC)					Ethics committee for data science-related projects.	
Government Social Research (GSR)	Principles on ethics and using social media for social research.	Guidance on applying ethical principles ; general ethical guidelines and questions to consider in using social media for social research , alongside	Facilitate ethics training for the GSR profession.			GSR Ethics Community of Practice.

		examples of how ethical issues may manifest in a project context.				
Government Digital Service (GDS)	Principles on data ethics.	Specific actions with questions to consider that follow the project process, with a 0-5 self-scoring system.				Plan to build a public sector data ethics community, working on developing data ethics skills training, and gathering case studies and impact stories.
Government Statistical Service (GSS)		Definitions, tips, examples and explanations related to anonymisation and data confidentiality and data linking .	Awareness in data ethics online course.			
Office for Statistics Regulation (OSR)		Guidance related to data sharing; collecting and reporting data about sex; building confidence in the handling and use of data.				Identification of ethics issues and corresponding lessons learnt related to specific domains via in-depth reviews, such as the use of statistical models to award grades in 2020 ; ethical standards emphasised in T1.2 and T6.1 of Code of Practice for Statistics .
Department for Health and Social Care (DHSC)	Principles related to data-driven technology in healthcare .	Guidance on best practice in development of data-driven technology in healthcare .			Links to health research ethics committees and Health Research Authority Research Ethics Service .	
Information Commissioner's Office (ICO)		Guidance related to AI and data protection that covers ethical aspects, with actionable AI Auditing framework under consultation; definitions, processes and checklists for explaining AI in practice (in				Consultation on role of data ethics in complying with the GDPR ; resources related to data sharing .

		collaboration with Information Commissioner's Office).				
Digital Catapult (DC)	Principles covered in AI Ethics framework .	Guidance to apply the framework to practice.		AI Ethics Committee Advisory Group provides support to Start-ups; Larger organisations supported via responsible industry adoption forum.	AI Ethics Committee , consisting of both a Steering Group and Advisory Group.	Lessons in Practical AI Ethics detailing lessons learned from Machine Intelligence Garage programme; creation of searchable Applied AI Ethics Typology for developers following joint research with academic collaborators; development of Applied AI Ethics Hub ; development of public webinars focused on responsible AI adoption for AI practitioners.
The Wellcome Trust	Ethical principles covered in Good Research Practice Guidelines .	Guidance on wording to use when seeking consent for patient data ; ethical points to consider for project students ; aspects related to data sharing .				
Social Research Association (SRA)	Principles for ethical social research .	Provide links to further information in ethics guidelines.		Confidential SRA Ethics Forum .		
British Psychological Society (BPS)	Principles for human research ethics , ethics review and research during COVID-19 .	Range of guidance related to valid consent, confidentiality, deception and debriefing, vulnerable populations, internet-mediated research , research during COVID-19 , open data and research within the NHS.				
NESTA		Maintain a searchable landscape map/database that collates				

		guidance and materials related to AI governance , some of which has relevance to ethical aspects; series of questions to answer before using AI in public sector algorithmic decision making .				
UK Data Service		Provides links to a range of materials relevant to ethics, including specific and detailed guidance regarding statistical disclosure control, informed consent, data sharing and anonymisation.				
Nuffield Council on Bioethics	Ethical principles related to healthcare research in developing countries .	Collated links to international guidance/organisations related to COVID-19 and bioethics.				Webinars related to ethical aspects of healthcare research.
British Sociological Association (BSA)	Principles related to ethical research .	Table documenting potential exemptions from informed consent and confidentiality; series of 6 digital research case studies covering online forums, Twitter, open data, and young people.				
Association of Internet Researchers (AoIR)	Ethical norms/principles for internet research .	Guidance on aspects of informed consent, harm, algorithms, data procedures, questions to consider for AI and machine learning and use of corporate data.				
Market Research Society (MRS)	Ethical principles related to the MRS Code of Conduct .	Practitioner focused guidance on a range of topics (containing questions/statements for researchers to think about and examples).				

Operational Research Society (ORS)	Ethical principles for operational research .					
UK Research Integrity Office (UKRIO)		Checklist for ethics applications and ethical considerations related to the pandemic , points to consider for internet-mediated research .	Training sessions on research ethics and informed consent.			Arranged webinars in 2020 on data sharing and ethics.
DataKind	Ethical principles for charities working with technology companies/future technologies and data .	Checklist-style questions to consider related to different social risk types.	Ethics training for core DataKind UK volunteers in their ethical OS project tool.	Provides light touch support for data ethics in social change organisations.	Ethics committee for their data science related projects.	
Inspiring Impact	Principles related to research ethics and data protection .	High-level guidance on informed consent, harm, voluntary participation, protected identity and avoiding bias.				

*Note: Materials included in the table represent information that was identified in desk-based research, was openly available to view (i.e., not restricted behind paywalls etc.) and in English. **It is unlikely to represent an exhaustive list** and does not include current plans or materials that may be available to selected internal audiences/groups within an organisation. It also **does not cover the extensive range of research reports produced by various organisations in the data ethics space**, which can be found by visiting the websites of individual organisations.

**A collation of some of this guidance can be found at the data ethics and AI guidance landscape webpage produced by DCMS (however, this is predominantly focused on AI more generally; <https://www.gov.uk/guidance/data-ethics-and-ai-guidance-landscape>).

***UK Government AI Council also have a remit for exploring how to develop and deploy safe, fair, legal and ethical data-sharing frameworks (<https://www.gov.uk/government/groups/ai-council>).

****Although this table is not focused on responsible innovation, a range of practical resources related to ethical aspects of technology innovation also exist, such as the [Consequence Scanning tool](#) developed by DotEveryone.

Annex B Proposed Topic Areas

Transparency

1. What information do respondents need to know about data linkage and the onward sharing of data at the point of data collection to ensure research is ethically appropriate?
2. How can researchers fully articulate the public good of their research?
3. How can researchers navigate the cluttered and confusing data ethics landscape to conduct ethically appropriate research?
4. How can researchers and statisticians use algorithms in transparent ways?

Inclusivity

5. What constitutes a vulnerable group and how should ethically appropriate research deal with these groups?
6. Who are the people who are not included in administrative data, what are the ethical implications of this and how should ethically appropriate research account for this?

Data Use

7. From an ethical perspective, where is the boundary between research and statistics and operational uses of data?
8. How do we ensure we use Machine Learning and AI in ethically appropriate ways to improve the production of research and statistics?
9. How do we ensure we use open data in ethically appropriate ways?
10. Ethics of the use of geo-location data