Ethical Al for sustainable adoption

Connecting AI and ESG











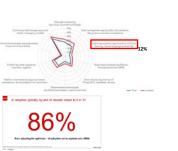
Ethics and trust in a digital age

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ETHICS IN A COVID-19 WORLD







ETHICS FOR SUSTAINABLE AI ADOPTION CONNECTING AI AND ESG



Methodology

This report is based on the following primary sources.

 Global survey: 5,723 respondents Regional and country-specific data is available in the appendices.

LOCATION of global survey respondents



EMPLOYMENT STATUS of global survey respondents

Part/full-time accounting or finance related role, 72%
 Part/full-time non-accounting or finance related role, 9%
 Not currently working/career break/retired, 8%
 Studying full-time, 9%
 Orher, 2%

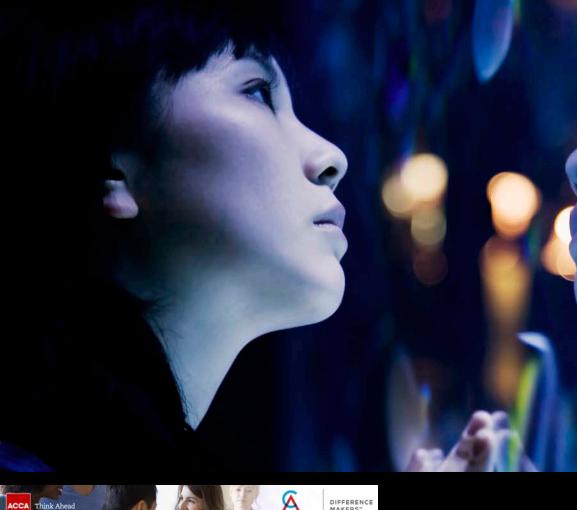
Online discussion group (ODG): in keeping with the qualitative nature of ethics, survey data was supplemented with an online discussion. This involved 42 accountancy and finance professionals from around the world in an online forum on Al ethics that took place over five days.

Africa	7
Asia Pacific	7
Caribbean	5
Europe	11
Middle East	3
South Asia	7
Other	2
TOTAL	42

Expert interviews: a list of individuals consulted is given in the Acknowledgements.







MAKERS"

RTERED ACCOUNTANTS"

'I agree that leaders in my





LIVING WITH AI: The impact of AI is positive/very positive on...



My rights as an INDIVIDUAL (eg safety and personal security, discriminatory treatment, lack of choice, lack of transparency)

35% My rights as a CONSUMER (eg how my data is used by a company, discriminatory treatment, lack of transparency)

47% My rights as an EMPLOYEE (og fair and transparent hiring and remuneration practices)

51% My ability to live according to my values

64% The overall standard of living in society

32% Levels of inequality within society

USING AI:



7% My organisation uses AI in audit and assurance

15% My organisation uses AI outside of the accountancy and finance function

19% My organisation uses AI for accountancy and finance related tasks or functions (eg preparing financial statements, management reporting, to inform decision making etc)

GOVERNING AI:

21% My organisation has implemented an ethical framework for AI use

My organisation is effective/very effective in managing DATA QUALITY

72%

35% My organisation has considered relevant regulatory requirements for AI use

My organisation is effective/very effective in managing DATA CONFIDENTIALITY



DATA CONFIDENTIALITY - My organisation's biggest challenge within the data life cycle is:

16% Collection

23% Use

46% 26% Secure storage

17% Dissemination/Spread Lawful destruction

ACCA Think Ahead

	OBSERVATION	ETHICAL IMPLICATIONS FOR ACCOUNTANCY AND FINANCE
ENVIRONMENT	 Al systems have an identifiable carbon footprint 	 Professional competence and due care in engaging vendors to assess implications
	 With focus on the path to net-zero, some will attempt to misrepresent sustainability performance 	 Objectivity to assess claims v performance to challenge 'greenwashing'. Professional competence and due care to upskill on upcoming reporting requirements and role of Al to assess compliance
SOCIAL	 Positive AI impact on overall standard of living cited by 64% but on societal inequality by just 32% 	 Public interest obligation, particularly to under- represented or vulnerable groups
	 Fewer than half (47%) positive about Al impact on rights as an employee 	 Integrity in communicating impact of AI to employees in straightforward way
	 Just over a third (35%) positive about Al impact on rights as consumers 	 Confidentiality of customer data and treating customers fairly. Integrity in communicating transparently when AI is being used
GOVERNANCE	 Algorithms are shaped by ideas, cultures, and values 	 Professional judgement cannot be replaced by a compliance-based checklist
	 Only 2 in 3 leaders prioritise ethics as highly as profits 	 Professional competence and due care obligation to ensure responsible Al adoption
	 1 in 3 have considered regulatory requirements 	 Professional standards for compliance with evolving AI regulatory landscape
	 13% using Al without considering regulatory needs 	Professional standards at risk of compromise
	 28% using Al without an ethical framework 	Professional competence and due care challenge
	 Adopting AI is a strategic decision needing coordination across siloes and spearheaded by senior leaders. 	 Professional competence and due care for oversight and delivery mechanisms
	 Only 1 in 3 aware of Al use in their industry 	 Professional competence and due care challenge ensure sufficient AI knowledge to interrogate vendor offer
	 Good documentation is key to tracking what Al is doing 	 Professional competence and due care in operationalising control and monitoring
	 75% effective or very effective at data confidentiality 	 Confidentiality and Professional standards: need to handle data in a compliant manner
	 Fewer than half (48%) have a basic understanding of how an algorithm works 	 Professional competence and due care to understand what the AI system is doing. Integrity in not passing accountability to the algorithm.
	 Channels to contest AI decisions are vital 	 Professional competence and due care in setting up mechanisms for redress
	 Need for training on ethical implications of Al 	 Professional competence obligation for continuous learning and development



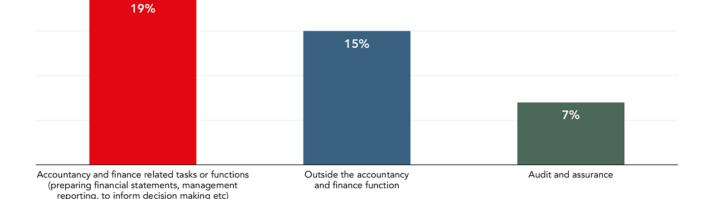




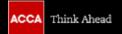
ACCA Think Ahead

Al and the environment (1/3): data explosion, including unstructured

Al adoption, by use case







Al and the environment (2/3): energy consumption

Responsible computing (IBM)

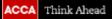


'The main impact AI has on creating a sustainable planet is that it may lead to ecological costs in terms of energy needed to power training and inference stages of AI'. **ODG participant**

Ethics for accountancy and finance professionals:

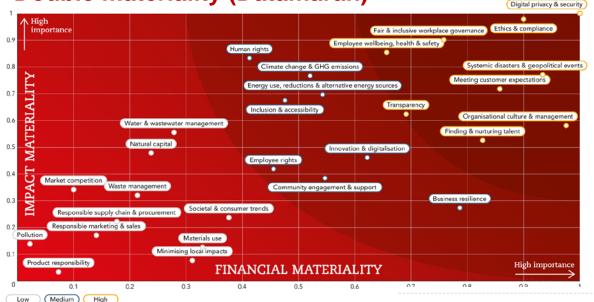
Professional competence and due care must be applied when engaging vendors to assess environmental implications of AI.





AI and the environment (3/3): greenwashing

Double materiality (Datamaran)

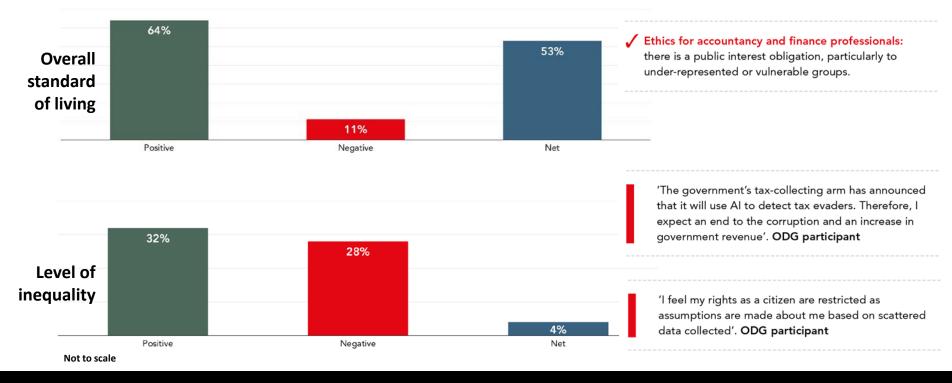


'The main impact AI has on creating a sustainable planet is that it enables efficient use of natural resources by closely monitoring the consumption pattern'. **ODG participant**

Ethics for accountancy and finance professionals: Integrity in challenging greenwashing if encountered; objectivity in assessing Green Claims versus Green Performance, regardless of pressures that may be applied; and professional competence and due care to address upcoming ESG reporting and assurance considerations, eg TCFD requirements.



AI and society (1/3): rising tide to lift all boats?





Al and society (2/3): availability, quality of work

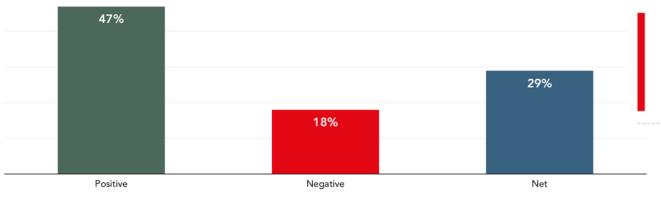
Impact of AI on my rights as an employee

(eg fair and transparent hiring and remuneration practices)

Ethics for accountancy and finance professionals:

Integrity is essential in communicating impact of Al to employees in straightforward way.

'My rights as an employee are both positively and negatively impacted by AI. Positives could be increasing productivity, and less [involvement in] boring activities. Negatives are that AI processes might dictate human behaviour, forcing the employee to behave in certain way to align – which will restrict freedom'. **ODG participant**





AI and society (3/3): consumer distrust

1%

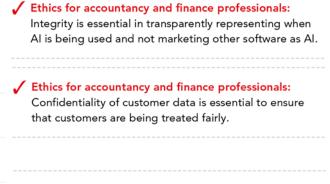
Net

Impact of AI on my rights as a consumer

34%

Negative

(eg how my data is used by a company, discriminatory treatment, levels of transparency)



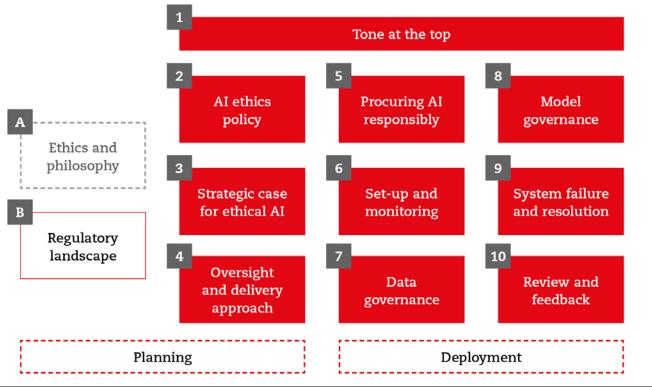
'My rights as a consumer are infringed, with information collected being processed somewhere to help interested parties plan their business and make money'. **ODG participant**



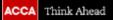
35%

Positive

AI and governance (1/14)







Al and governance (2/14): right and wrong

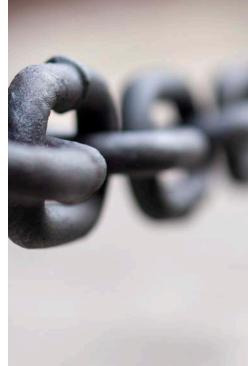


 Ethics for accountancy and other finance professionals: professional judgement cannot be replaced by a compliance-based checklist.

'I fear sometimes in the future when AI is at its full capacity, whether the human being could be forced to conform to one set of values'. **ODG participant**

HOW ALGORITHMS ARE DEVELOPED AND DEPLOYED IS THE NEW BATTLEGROUND OF IDEAS, CULTURES, AND VALUES.







Al and governance (3/14): regulation





EU, Europe (Apr, 2021)

The aim is to establish a framework that provides the legal certainty to facilitate innovation and investment in Al, while also safeguarding fundamental rights and ensuring that Al applications are used safely (Eur-Lex 2021; Norton Rose Fulbright 2021).

UK (Mar, 2021)

No Al-specific legislation. Laws must be technology agnostic to ensure that future technology will still be subject to an overarching legal framework. (DCMS n.d.).

Shenzen, China (Jun, 2021) Regulations on the Promotion of Artificial Intelligence Industry of Shenzhen Special Economic Zone. China's first general AI regulation. <https://www.nortonrosefulbright com/en/knowledge/publications/ fdfc4c27/eu-to-propose-newartificial-intelligence-regulation>

Australia (Jun, 2021)

Singapore (Jan, 2019) Australia does not have specific Model Al Governance Framework laws regulating Al, big data or Introduced at World Economic Forum algorithmic decision making. (WEF) in Davos in 2019, with updates However, the Australian government a year later at the same event. (SG:D, has issued its AI ethics framework IM and PDPC 2020). (Australian Government n.d.).

US (Jan. 2021)

National Al Initiative Act became

law in January 2021, Provides for a

Federal government to accelerate

Al research and application for the

nation's economic prosperity and

national security (National Artificial

Intelligence Initiative 2021).

coordinated program across the entire

New Zealand (Jul. 2020) Algorithm Charter, Principles-based as opposed to a regulatory approach. Part of a wider ecosystem around responsible AI. Voluntary and aims to improve government transparency and accountability without stifling innovation or causing undue compliance burden (data.govt.nz 2021).

Brazil (Apr. 2021)

Aims to balance ethical use of the technology with boosting research and innovation in the sector (Mari 2021).

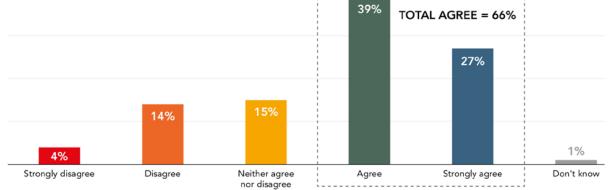
 \checkmark Ethics for accountancy and finance professionals: Professional standards for compliance will change with the evolving regulatory landscape of Al.

Al needs to be regulated...like with most things when there are laws/ guides then there are rules to adhere to. ODG participant



AI and governance (4/14): tone at the top

30%



Leaders prioritise ethics as highly as profits

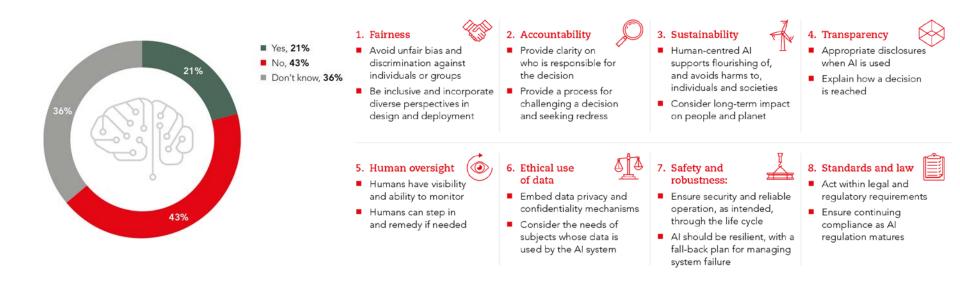
'The attitude toward AI from the CEO/Leadership team...is to sell anything remotely close to it for as much money as possible'. **ODG participant**

'I think it depends on the top-down leadership approach towards AI adoption. Once the leadership is committed to transforming the organisation, opportunities keep arising day by day. We started using AI for forecasting, then RPA, Live Chat, Chatbot, and the journey continues at pace'. **ODG participant**



Al and governance (5/14): implemented ethical framework for Al

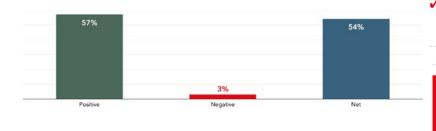






Al and governance (6/14): strategic case for ethical Al

Impact of AI on the integrity of financial information produced



 Ethics for accountancy and finance professionals: Objectivity is essential in recognising fully loaded costs and long-term value.

'The organisation provides a customised server/storage business model to its customers, thereby reducing the cost for the customer and reducing waste of space and resources. We use Al-based reports to produce/ pull data, which cuts the time by 70% compared with pulling the financial data manually'. **ODG participant**

FOR AN ETHICAL AND SUSTAINABLE APPROACH, THE BUSINESS CASE FOR AI IMPLEMENTATION MUST CONSIDER LONG-TERM TRENDS RATHER THAN SEEKING THE LATEST TOOL SIMPLY FOR FEAR OF MISSING OUT



Al and governance (7/14): oversight and delivery

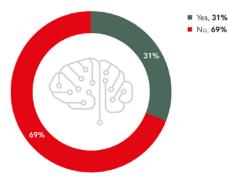
'Finance leaders have a mix of strategic, financial, operational and governance skills that make them ideal for driving the adoption of ethical practices when using Al in their organisations'. **Karen Smith FCCA**, **Partner, IBM** Ethics for accountancy and finance professionals: Professional competence and due care are essential in enabling appropriate oversight and delivery mechanisms.

AI IS A STRATEGIC DECISION AND SHOULD NOT BE SEEN PURELY FROM THE PERSPECTIVE OF AN INDIVIDUAL PROJECT DELIVERED DEEP WITHIN A BUSINESS UNIT. IT MAY USE DATA FROM VARIOUS PARTS OF THE ORGANISATION AND FROM EXTERNAL SOURCES, AND NEED COORDINATION ACROSS SILOES, SPEARHEADED BY SENIOR LEADERS.



Al and governance (8/14): procuring responsibly

I am aware of AI use within my industry



Ethics for accountancy and finance professionals:

Professional competence and due care are essential in engaging with and interrogating the offer from AI vendors in the context of the business need.

'I run the organisation and am very interested in use of AI to make better managerial decisions'. **ODG participant**





Al and governance (9/14): set-up and monitoring

- Documentation
- Access controls
- Transparency
- Evaluations

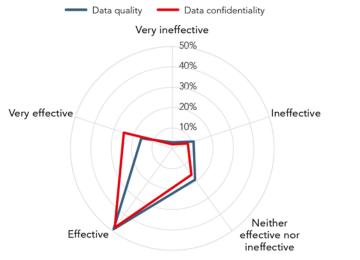
Ethics for accountancy and finance professionals: Professional competence and due care are essential in operationalising control and monitoring mechanisms.

'I feel implementation won't be easy as the models will need to factor various control points, for instance to analyse the transactions in general ledger, bifurcate and label transactions in buckets as per the risk level to accurately determine which transactions are high risk and low risk'. **ODG participant**





Al and governance (10/14): effectiveness in data quality and confidentiality



Note: Excludes 'Don't know'

'I feel implementation won't be easy as the models will need to factor various control points, for instance to analyse the transactions in general ledger, bifurcate and label transactions in buckets as per the risk level to accurately determine which transactions are high risk and low risk'. **ODG participant**

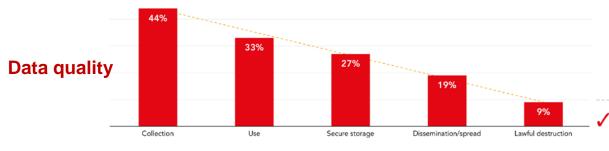
A Dibics and philosophy

'We are using AI in Live Chat...[the] benefit is highly personalised service and to maximise organisational efficiencies. Data privacy is the biggest concern about using AI'. **ODG participant**



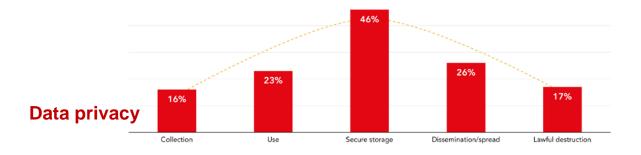
Al and governance (11/14): biggest challenge in data life cycle





Ethics for accountancy and finance professionals:

Confidentiality and professional standards are essential to ensure that data is handled in a compliant manner.





AI and governance (12/14): managing bias

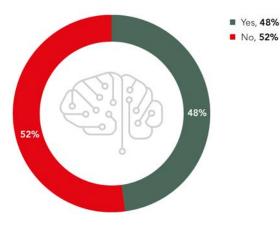
YOU WILL FIND ONLY IN PLACES WHERE YOU SEARCH. IF YOU ONLY SEARCH WITHIN A CERTAIN DEMOGRAPHIC, YOU WILL FIND GOOD CANDIDATES ONLY FROM WITHIN THAT DEMOGRAPHIC.





Al and governance (13/14): model management

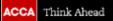
I have a basic understanding of how an AI algorithm works



- Partnering
- Explainability
- Model drift
- Distributed delivery

'If an organisation uses AI unethically, it would likely be hard to get them to admit it or be able to get access to find out...at the moment, once an AI algorithm has been built, I don't think it's very easy to take apart to find out how it's working'. **ODG participant**





AI and governance (14/14)

Ethics for accountancy and finance professionals: Integrity is essential in setting up mechanisms for protection and redress in respect of wrongdoing.

- Complaints and redress
- Securing the AI system

System failure and resolution



 Ethics for accountancy and finance professionals: There is a professional competence-related obligation for continuous learning and development.

- AI and ethics training
- Lessons learned

Review and feedback

Driving ethical AI for sustainable adoption (1/4)





 Organisational values – diversity and inclusion (eg consider the impact of AI on under-represented groups), fairness (eg when using AI for recruitment or surveillance of employees), and transparency (eg appropriately disclosing AI use to customers).

- Long-term value and alignment with strategy, beyond immediate use case
- Consider reputational risk from mishandling adoption, and the public interest, in addition to immediate costs
- Align 'value' to Sustainable Development Goals (SDGs)



Driving ethical AI for sustainable adoption (2/4)

Exercise professional judgement

3

4

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Al can throw up previously unseen situations; **avoid over-reliance on simplistic checklist**-based approaches which don't give the full picture or leave room for unintended consequences.

Challenge greenwashing

 Seek insights from AI data-driven analysis to aid professional scepticism in examining whether claims about sustainability, eg on net zero requirements, are matched by its performance; and challenge suspect claims ('greenwashing')

Comply with regulation and ethics policies

Push for regulatory requirements and Al-specific ethics policies to be adhered to, recognising the challenge of not always being the direct owners of the AI in the organisation



Driving ethical AI for sustainable adoption (3/4)

7

Prioritise data management

- Recognise the fundamental role of data as the raw material that feeds AI
- Focus on data confidentiality and the improvement of data quality

Take a strategic approach to oversight and delivery

- Embed collaboration across siloes with crossfunctional teams to ensure that a breadth of perspectives is represented in the approach
- Establish mechanisms for contesting decisions made via AI, and for whistleblowing on inappropriate use of AI



Driving ethical AI for sustainable adoption (4/4)

Understand
vendor landscape

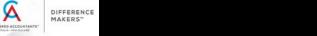
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ACCA Think Ahead

8

Build knowledge and skills

- Build awareness of how AI is used within the industry and of the providers of AI solutions
- Work with vendors who demonstrate a responsible approach, eg who have credible mechanisms for correcting for unfair bias or unintended consequences and/or who recognise and mitigate the energy consumption of complex algorithms
- Create avenues (eg training courses, on-the-job opportunities) to build awareness and understanding of issues pertaining to AI ethics and sustainability
- Establish processes to **document** and share **lessons learned** from AI adoption



Questions

Thank you



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