



Responsible Innovation approaches in Industry

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horizon











Drivers for Responsible Innovation

Regulatory Compliance Reputation

Ideological conviction

Governance frameworks

Market solutions (reputation)

DEMAND SIDE SOLUTIONS

Marmite maker Unilever threatens to pull ads from Facebook and Google

One of world's biggest advertisers says it will avoid platforms that 'create division'



▲ Unilever brands include Marmite and Pot Noodle. Photograph: Chris Radburn/PA

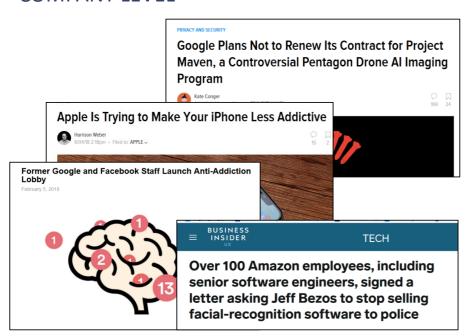
Unilever has threatened to withdraw its advertising from online platforms such as Facebook and Google if they fail to eradicate content which "create division in society and promote anger and hate".

SUPPLY SIDE SOLUTIONS

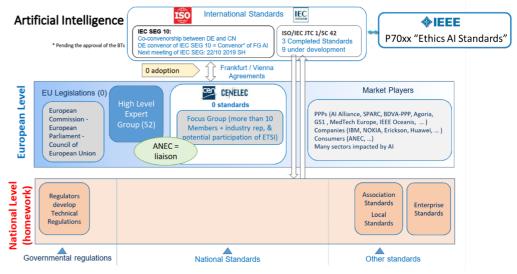


Self-regulation (reputation / compliance)

COMPANY LEVEL



BRANCH/SECTOR LEVEL - STANDARDS



State Intervention (compliance)

CO-REGULATION



LEGISLATIVE ACTION



Market & Reputation driven RI services

Lack of trust is impacting investments in Al

User mistrust and aversion is slowing down the growth of Al

It can take only one mistake -- or a perception of a mistake – for a user to stop trusting Al

Lack of trust in AI is #1 barrier for deployment of AI in organizations

Sustaining trust in AI will be a long-term struggle and current governance practices are not keeping up



only 9% of consumers would allow AI to run their finances, and only 4% would trust it with HR-related work

Source: InsideSales.com 2017 Al user survey

85% of AI projects through 2022 will

deliver erroneous outcomes

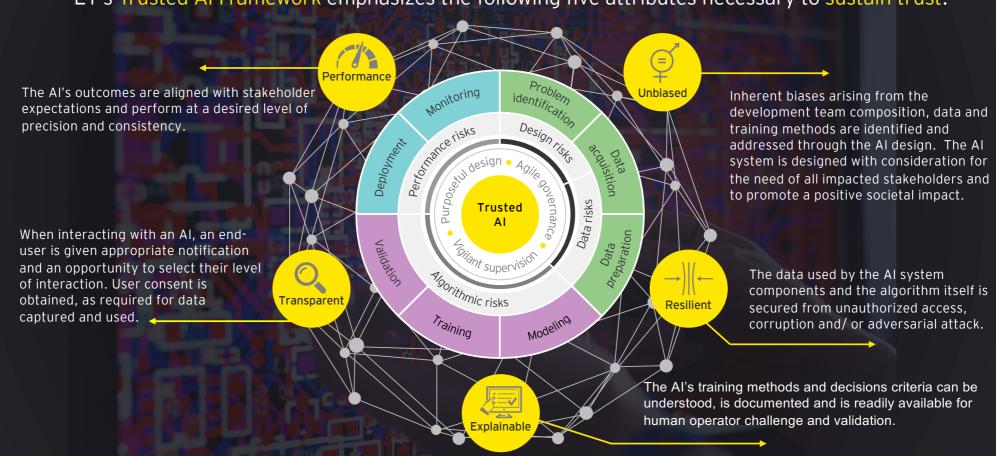
due to bias in data, algorithms or development teams



Source: Gartner's 2018 CIO Agenda Survey

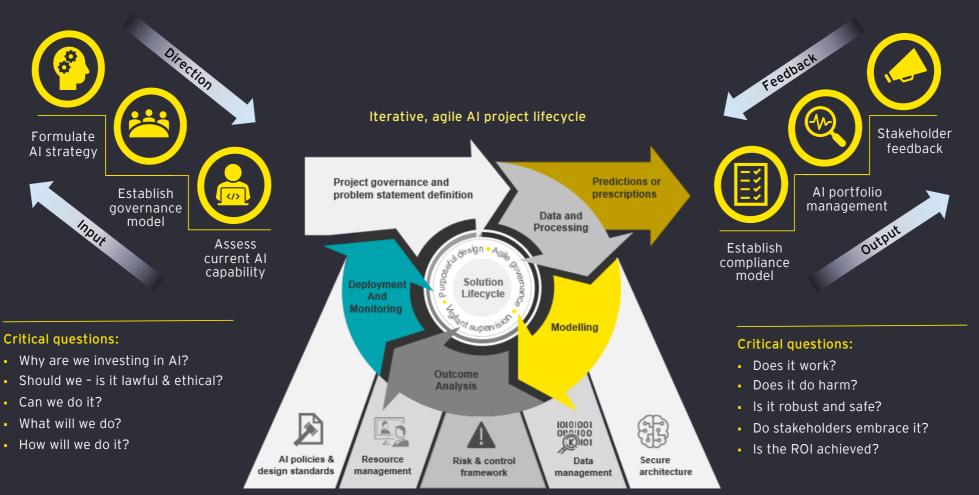
Trusting AI will require expanding the risk and control attributes

EY's Trusted AI Framework emphasizes the following five attributes necessary to sustain trust.



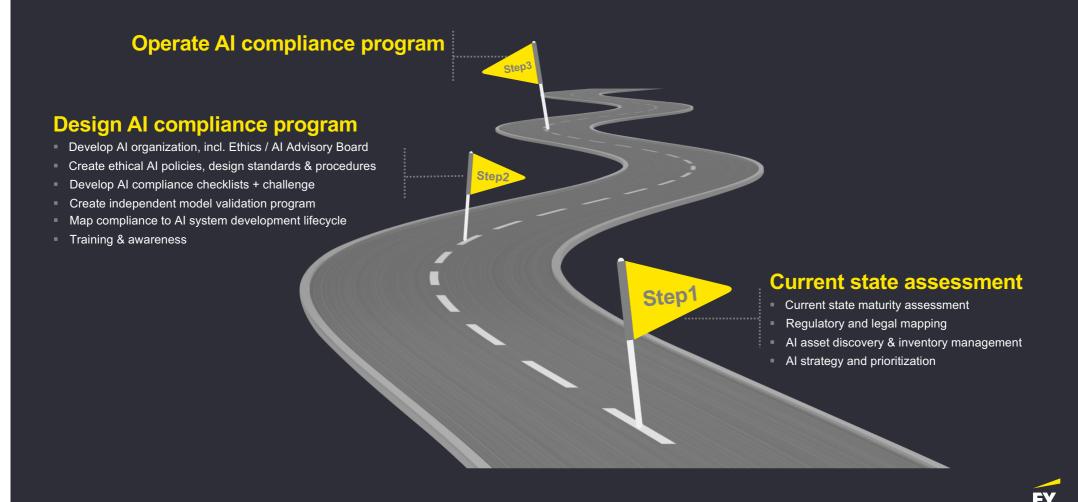


An agile governance model is needed to address the high-pace dynamics of Al





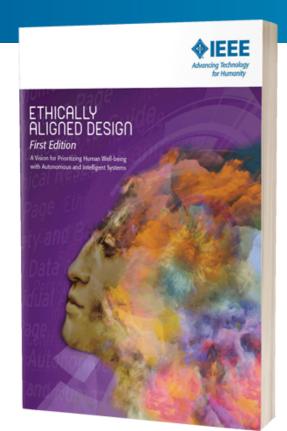
High-level roadmap to a robust AI compliance program





The IEEE Global Initiative on Ethics of Autonomous and Intelligent Systems

An incubation space for new standards and solutions, certifications and codes of conduct, and consensus building for ethical implementation of intelligent technologies



IEEE P7000: Model Process for Addressing Ethical Concerns During System Design

IEEE P7001: Transparency of Autonomous Systems

IEEE P7002: Data Privacy Process

IEEE P7003: Algorithmic Bias Considerations

IEEE P7004: Child and Student Data Governance

...

IEEE P7008: Ethically Driven Nudging for Robotic, Intelligent and Autonomous Systems

IEEE P7009: Fail-Safe Design of Autonomous and Semi-Autonomous Systems

IEEE P7010: Wellbeing Metrics Standard for Ethical AI and Autonomous Systems

IEEE P7011: Process of Identifying and Rating the Trustworthiness of News Sources

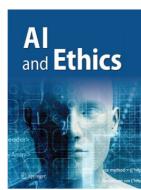
IEEE P7013: Benchmarking of Automated Facial Analysis Technology

Algorithmic systems are socio-technical

- Algorithmic systems do not exist in a vacuum
- They are built, deployed and used:
 - by people,
 - within organizations,
 - within a social, political, legal and cultural context.
- The outcomes of algorithmic decisions can have significant impacts on real, and possibly vulnerable, people.

Thank you





Al and Ethics

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Al and Ethics seeks to promote informed debate and discussion of the ethical, regulatory, and policy implications that arise from the development of Al. It will focus on how Al techniques, tools, and technologies are developing, including consideration of where these developments may lead in the future. The journal will provide opportunities for academics, scientists, practitioners, policy makers, and the public to consider how Al might affect our lives in the future, and what implications, benefits, and risks might emerge.



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