



The background of the slide features a night-time photograph of the Houses of Parliament and the Elizabeth Tower (Big Ben) in London. The building is illuminated with warm yellow lights, and the clock face is clearly visible. Overlaid on the image are various digital and technological elements: a network of white dots connected by thin lines, several circular icons (including a bar chart, a power button, a document, a padlock, and a warning sign), and a large, semi-transparent blue circular graphic with a white arrow pointing left. The overall aesthetic is futuristic and high-tech, suggesting the integration of AI and digital technology into the public sector.

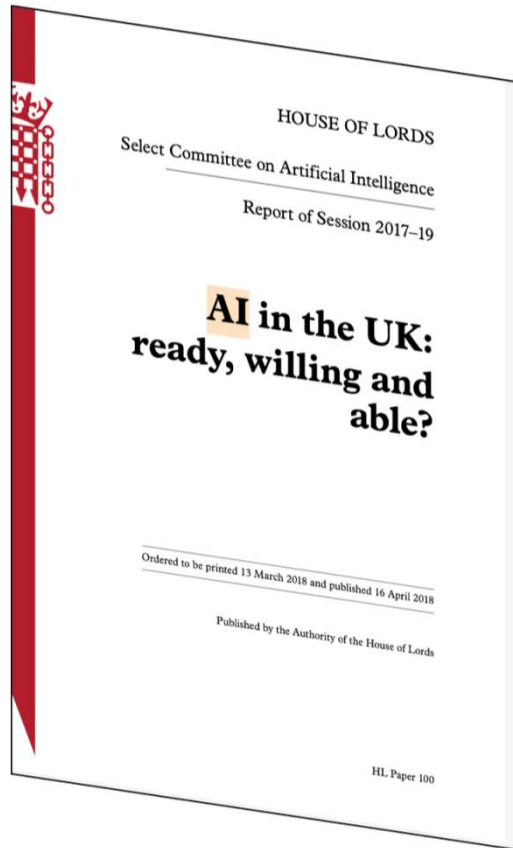
Foundation for Science and Technology

Delivering the AI Strategy – the use of new AI technologies in industry and the public sector

Tim, Lord Clement-Jones, former Chair, House of Lords Select Committee on Artificial Intelligence & Co-Chair, All-Party Parliamentary Group on Artificial Intelligence

23rd February 2022

House of Lords Reports on AI



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The fundamental technology...

Robot Neuron Layer
Supervised learning Classifier
Cognitive Computing
Artificial Intelligence Data analytics
Machine Learning Neural Network
Deep Learning Probability engine Augmented intelligence
Convolutional systems Automation Smart Cobot
Unsupervised learning



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Thanks to machine-learning algorithms,
the robot apocalypse was short-lived.

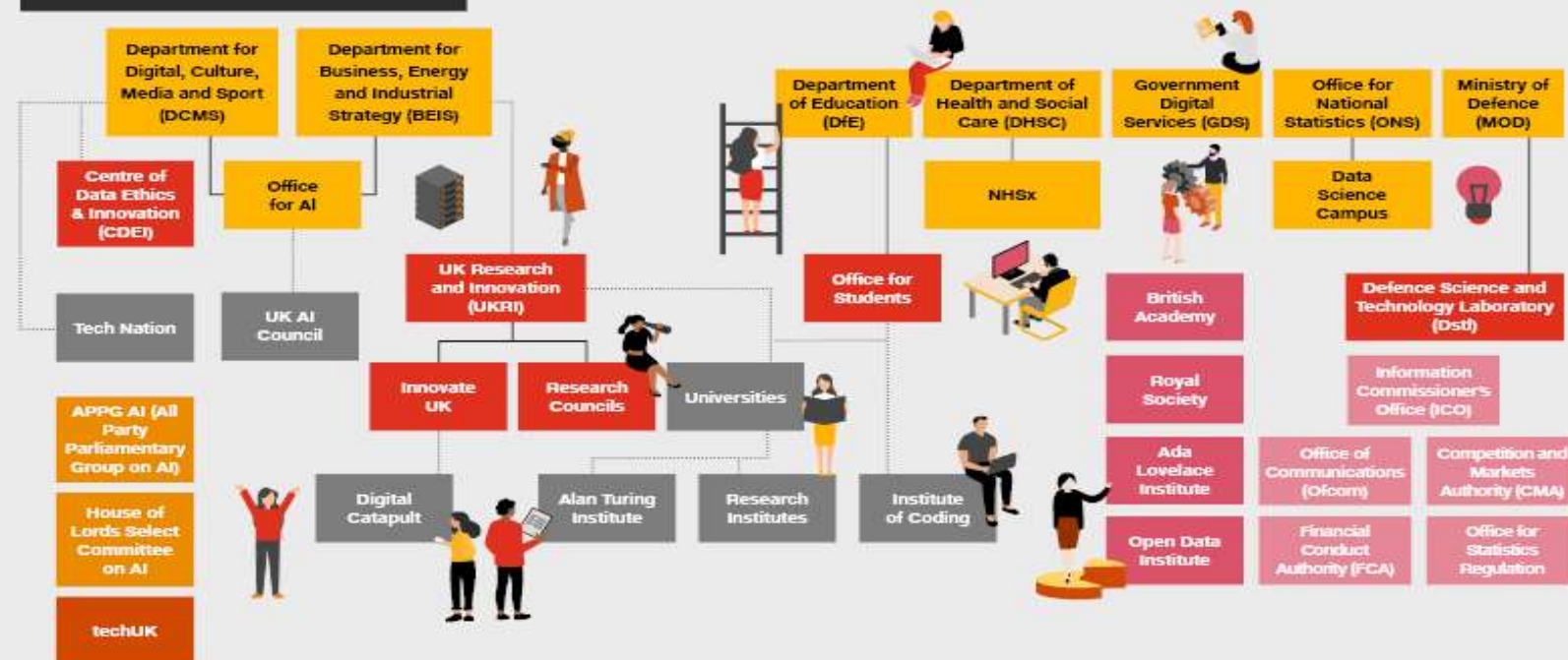


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AI public policy and regulation in the UK



Illustrative and non-exhaustive



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2021-03-30_TITM4969489



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The AI Council AI Roadmap/ National AI Strategy



“Establish the most trusted and pro innovation system for AI governance in the world.”

AI and Public Trust

An Algorithm Determined UK Students' Grades. Chaos Ensued

This year's A-Levels, the high-stakes exams taken in high school, were canceled due to the pandemic. The alternative only exacerbated existing inequities.



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AI and Ethics



“your scientists were so preoccupied with whether or not they **could** [create dinosaurs from prehistoric DNA] that they didn’t stop to think if they **should**.”



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Delivery of the National AI Strategy



National AI Strategy

The National AI Strategy has delivered so far...



Oct 2021

AI and IP: copyright and patents

Launched a Consultation on copyright and patents legislation for AI through the IPO.



Nov 2021

Standard for algorithmic transparency

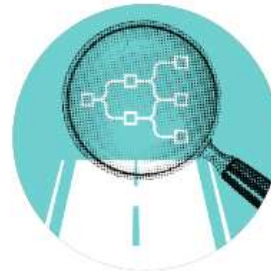
The CDDO published a pioneering standard for algorithmic transparency, making the UK one of the first countries in the world to do so, and strengthening our position as a world leader in AI governance.



Nov 2021

Funding GPAI research on data governance

Chris Philp MP, Minister for Tech and the Digital Economy, announced at the GPAI Ministerial Council meeting in Paris a £1m fund for Data Governance research; involving 12 pilot partners in low and medium income countries.



Dec 2021

The roadmap to an effective AI assurance ecosystem

Published by the CDEI, the roadmap to an effective AI assurance ecosystem, sets out the steps required to build a world-leading AI assurance ecosystem here in the UK.



Jan 2022

AI Standards Hub Pilot

Announced The Alan Turing Institute, supported by the BSI and NPL, will pilot the AI Standards Hub, aiming to increase UK contribution to development of global AI technical standards.

Visit [GOV.UK](https://www.gov.uk) to learn more about our AI announcements

@officeforai



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The National Data Strategy



Department for
Digital, Culture
Media & Sport

Data: A new direction

10 September 2021



Rights Relating to Automated Decision-Making (Article 22)

- A data subject has the right to demand human intervention rather than having important decisions made solely by algorithm
- A data controller must implement a process and the technical capabilities to
 - track all data relating to a data requestor in their systems
 - vet an Article 22 request
 - reverse the algorithm decision and
 - provide all information to a human decision-maker



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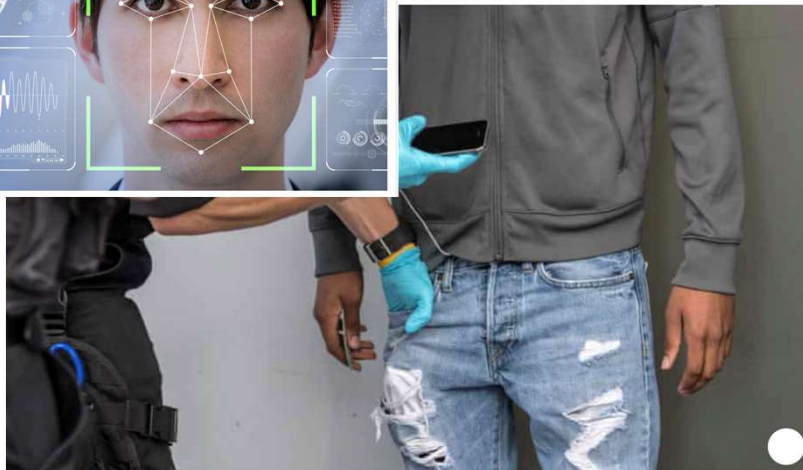
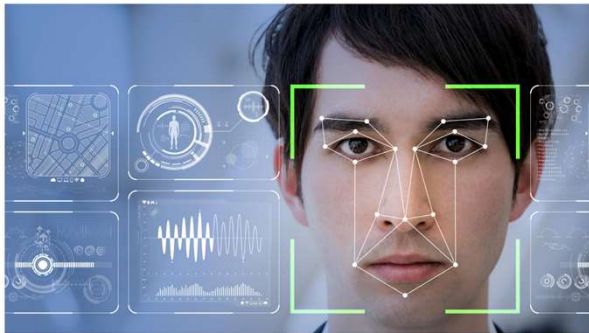
A Candidate for Regulation

THE SUNDAY TIMES
SUNDAY AUGUST 25 2019

EU to regulate face recognition as privacy threat

Simon Taylor, Brussels

August 23 2019, 5:00pm, The Times



Predictive policing poses discrimination risk, thinktank warns

Machine-learning algorithms could replicate or amplify bias on race, sexuality and age

Jamie Grierson Home affairs correspondent

Mon 16 Sep 2019 00.01 BST



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The Human
Rights, Big Data
and Technology
Project



Independent Report on the London Metropolitan Police Service's Trial of Live Facial Recognition Technology

Authors: Professor Pete Fussey & Dr. Daragh Murray
July 2019

E · S · R · C
ECONOMIC
& SOCIAL
RESEARCH
COUNCIL

Human
Rights
Centre



University of Essex



House of Commons
Science and Technology
Committee

The work of the Biometrics Commissioner and the Forensic Science Regulator

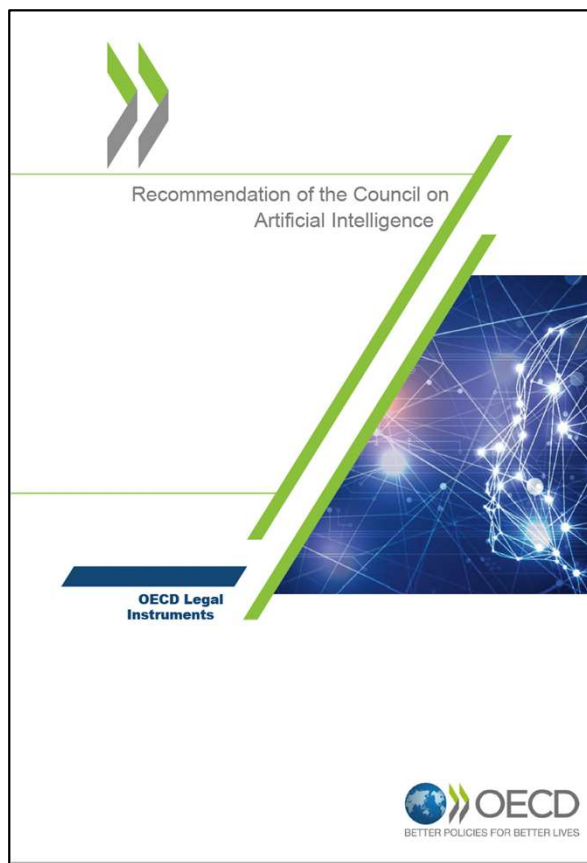
Nineteenth Report of Session 2017–19

Report, together with formal minutes
relating to the report

Ordered by the House of Commons
to be printed 17 July 2019

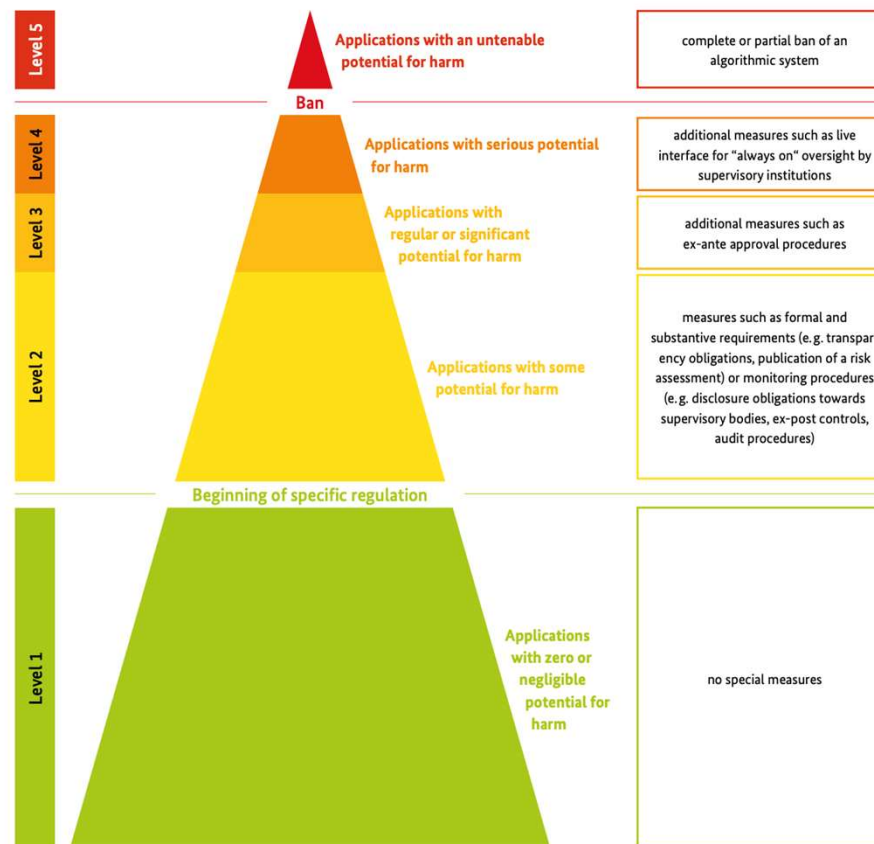
HC 1970
Published on 18 July 2019
by authority of the House of Commons

OECD AI Principles



- AI should benefit people and the planet by driving inclusive growth, sustainable development and well-being.
- AI systems should be designed in a way that respects the rule of law, human rights, democratic values and diversity, and they should include appropriate safeguards – for example, enabling human intervention where necessary - to ensure a fair and just society.
- There should be transparency and responsible disclosure around AI systems to ensure that people understand AI-based outcomes and can challenge them.
- AI systems must function in a robust, secure and safe way throughout their life cycles and potential risks should be continually assessed and managed.
- Organisations and individuals developing, deploying or operating AI systems should be held accountable for their proper functioning in line with the above principles.

The AI Risk Hierarchy



AI Risk Toolbox

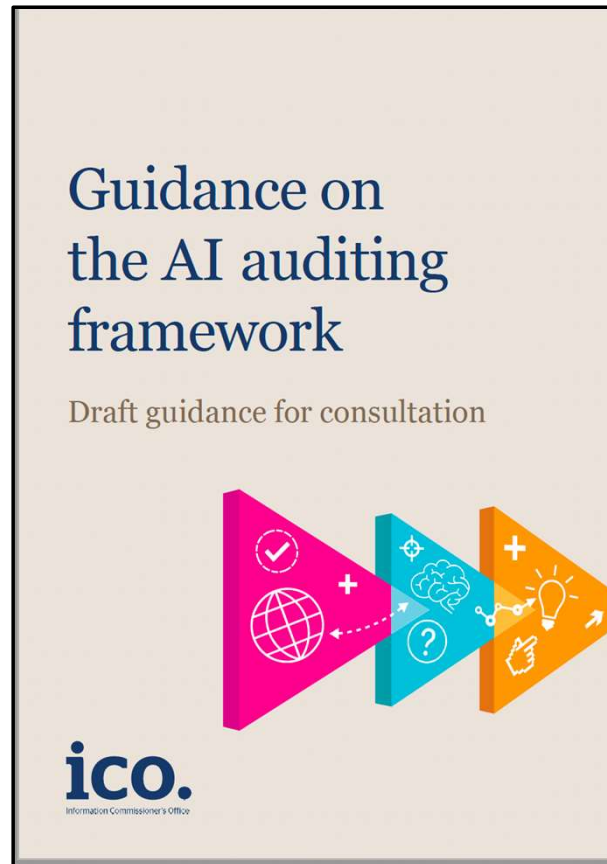
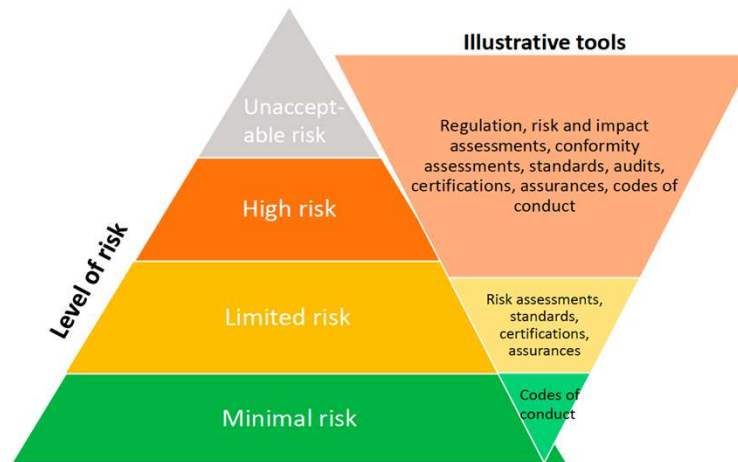


Illustration of tools for accountability, by risk level



Human Rights, Democracy, and the Rule of Law Assurance Framework for AI Systems:

A proposal prepared for the Council of Europe's Ad hoc Committee on Artificial Intelligence



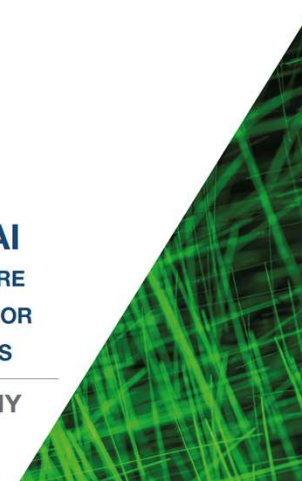
OECD publishing

TOOLS FOR TRUSTWORTHY AI A FRAMEWORK TO COMPARE IMPLEMENTATION TOOLS FOR TRUSTWORTHY AI SYSTEMS

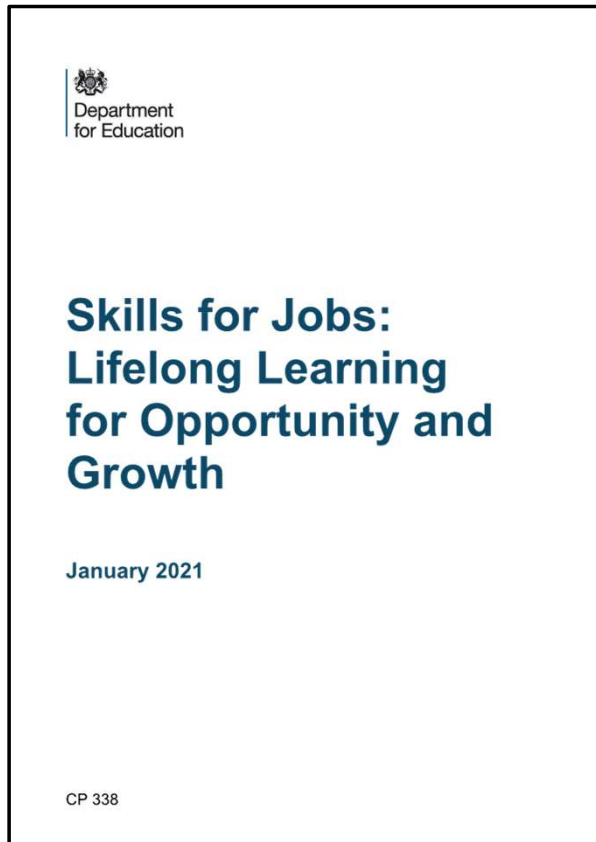
OECD DIGITAL ECONOMY PAPERS
June 2021 No. 312



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Future Skills



Thank you!



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