



Delivering the
National AI Strategy



The AI Journey so far...



Oct 2017

Growing the AI industry in the UK

The Independent review carried out by Prof. Dame Wendy Hall and Jérôme Pesenti reported how the AI industry can be grown in the UK.



Apr 2018

Groundbreaking AI Sector Deal

In response to the recommendations of the AI Review the government and the UK's AI ecosystem agreed a near £1 billion Sector Deal to boost the UK's global position as a leader in AI.



Jan 2021

AI Council AI Roadmap

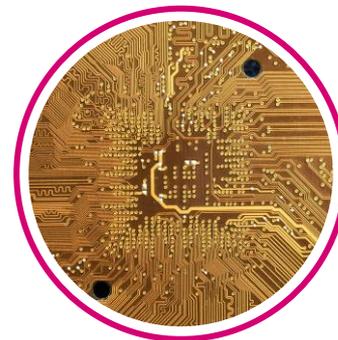
The AI Roadmap called for the government to develop a national strategy for AI to prioritise and set a time frame that will position the UK for success.



Sep 2021

National AI Strategy

A ten-year plan to make Britain a global AI superpower that can and will adapt to changing circumstances to ensure the most effective delivery in the wider context of the fast-moving state of AI tech.



2022

Action Plan

Following the Spending Review we will publish an Action Plan that will set out our approach to monitoring and delivering the National AI Strategy in more detail, including the level of investment in AI.



The AI Roadmap

The roadmap has two underlying messages:

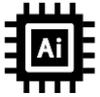
- We must “double down” on recent investment the UK has made in AI.
- We must look to the horizon and remain adaptable to disruption, responding to the rapid pace and evolution of science and technology and its applications.



UK AI COUNCIL AI ROADMAP	
Executive summary	
16 recommendations to help the government develop a UK National AI Strategy	2
Introduction	4
1. Research, Development and Innovation	6
The Alan Turing Institute: local presences and global reach	10
Challenge-led innovation	11
AI to transform research, development and innovation	14
2. Skills and Diversity	12
What everyone needs to know	14
Further, Higher and Graduate Education	16
Supporting every teacher	16
Lifelong learning and an online academy for AI	17
3. Data, Infrastructure and Public Trust	18
Trustworthy and accessible data	18
Public trust and good governance	20
Digital Twins and Living Labs	20
A globally leading role	22
4. National, Cross-sector Adoption	24
Business as smart adopters	25
Supporting high growth AI startups	26
Enabling public sector adoption	28
Health and social care	28
Climate change	29
Defence and security	30
Acknowledgements	31
	32
	33
	36



Why do we need an AI Strategy?



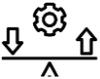
To successfully manage our transition to a period where general purpose AI technologies are reshaping the world



To signal to the world our serious intentions and our openness to working together



To identify the UK's strategic and comparative advantage and build on it



To be aware of and prepare to offset some of the (positive and negative) externalities which AI ubiquity may bring

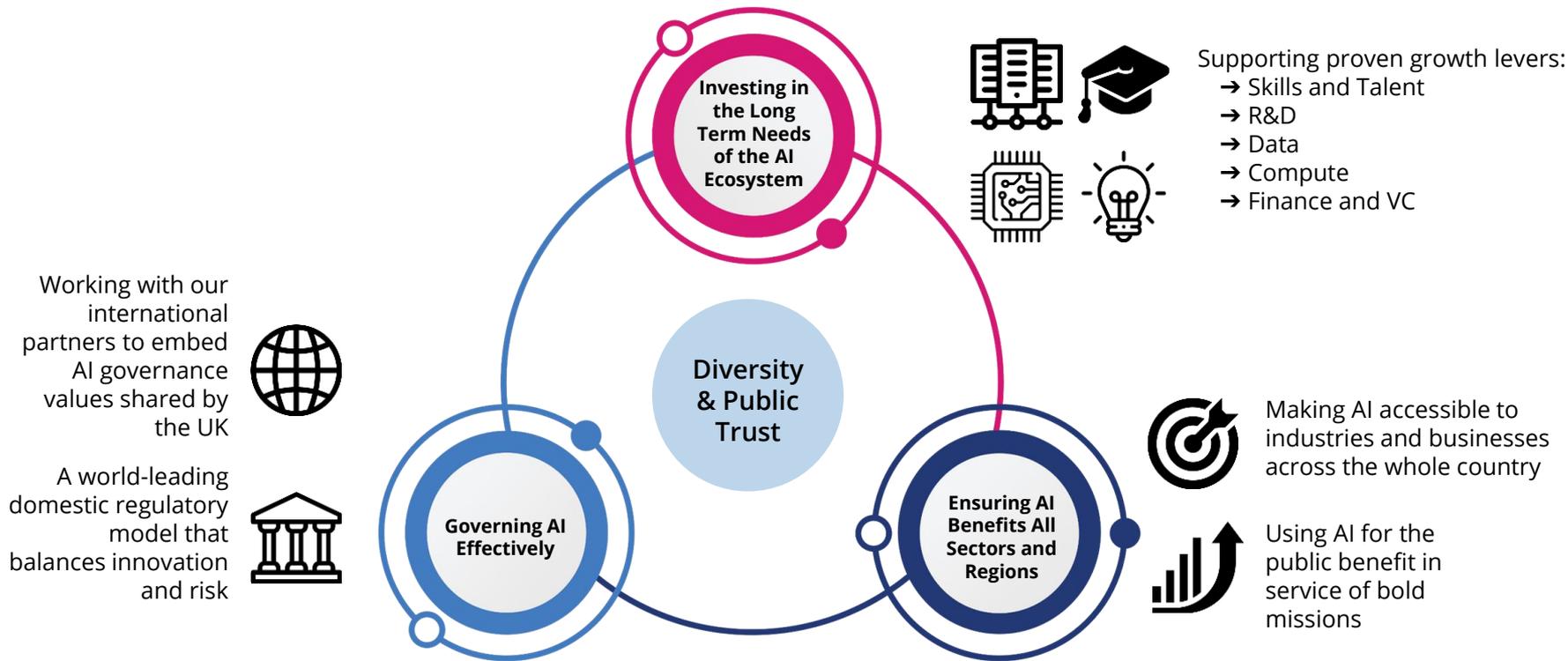


To coordinate government action to improve our operational effectiveness in doing all of the above



National AI Strategy

Strategic advantage through the National AI Strategy





The Long Term Needs of the AI Ecosystem

Need to promote Diversity and Skills in AI at all levels (top talent, PhDs, AI and Data Science Conversion Courses and Industrial Funded Masters)

Coordination of AI Research and Innovation that aligns R&D funding and supports the wider ecosystem

Coordination of computational needs and large scale compute across the ecosystem as a whole

Promoting strong link between open and machine-readable government datasets and AI models.



Ensuring AI Benefits All Sectors and Regions

Promote the development and adoption of AI technologies in high potential, lower-AI-maturity sectors.

Increase capabilities around trustworthiness, adoptability, and transparency of AI technologies

Work across government to identify where using AI can provide a catalytic contribution to strategic challenges



Governing AI Effectively

AI standards to support the AI ecosystem and leadership in the global AI standardisation landscape

Establish and promote principles and good practice for AI governance and assurance.

Use government as an exemplar to promote best practices and approaches to the governance of the use of AI



Moving forward

Office for AI working with government departments, industry, academia, funders and others to shapes approaches and mechanisms

Need a coordinated approach across government, R&D base and multiple industrial sectors is crucial

Need to think carefully about international cooperation and links and the role of the UK in a broader global context

Things to look for

- AI Action plan due soon
- AI Governance white paper due to be published as per the commitment, in Summer 2022