

Considerations for Policymakers

NSB Panel on AI

May 1, 2024

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THE UNIVERSITY OF
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Achieving AI policy goals – *Requires increased alignment with AI R&D*



OCTOBER 30, 2023

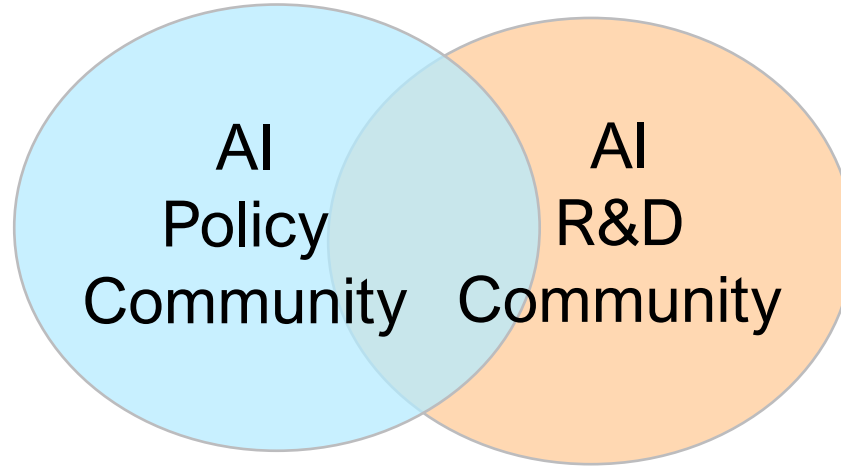
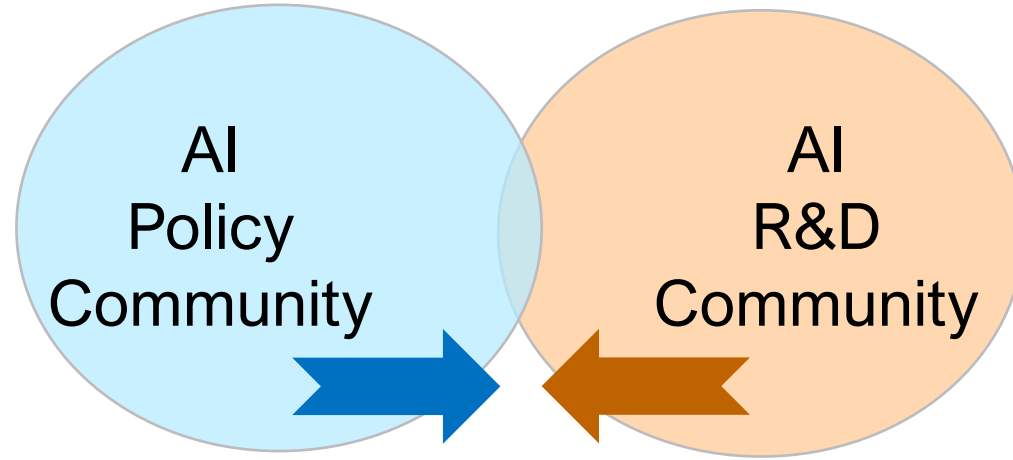
Executive Order on the Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence



Promoting the Use of Trustworthy Artificial Intelligence in Government

December 3, 2020 | 3 minute read

1) State measurable policy goals



2) Formulate specific R&D questions to achieve policy goals

3) Create a roadmap for alignment



NATIONAL ARTIFICIAL INTELLIGENCE
RESEARCH AND DEVELOPMENT
STRATEGIC PLAN
2023 UPDATE

A Report by the
SELECT COMMITTEE ON ARTIFICIAL INTELLIGENCE
of the
NATIONAL SCIENCE AND TECHNOLOGY COUNCIL

May 2023

Expanding geographic participation in AI innovation – *Requires active intervention*



May 2020
Report #: NSB-2020-15

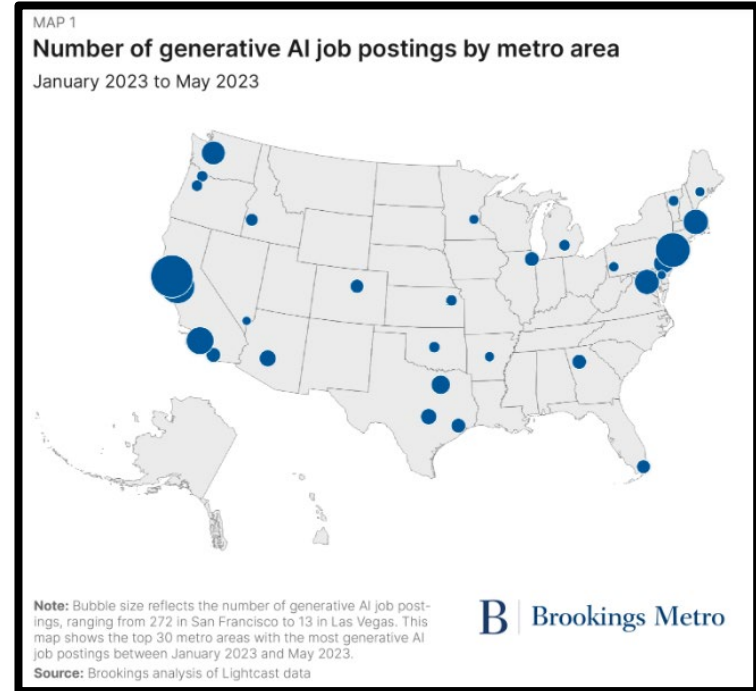
VISION 2030

EXPAND THE GEOGRAPHY OF INNOVATION

Americans from every state must benefit from the progress of science and engineering and have access to high-quality STEM education and S&E careers.

Empowering American workers, entrepreneurs, and businesses will require strategically building S&E capacity and infrastructure across the nation and actively seeding and nurturing innovation clusters.

“Nationwide, over 60% of GenAI jobs posted ... were clustered in just 10 metro areas” [Brookings*]



Active interventions are needed to expand the geography of AI innovation

National Artificial Intelligence Research Institutes

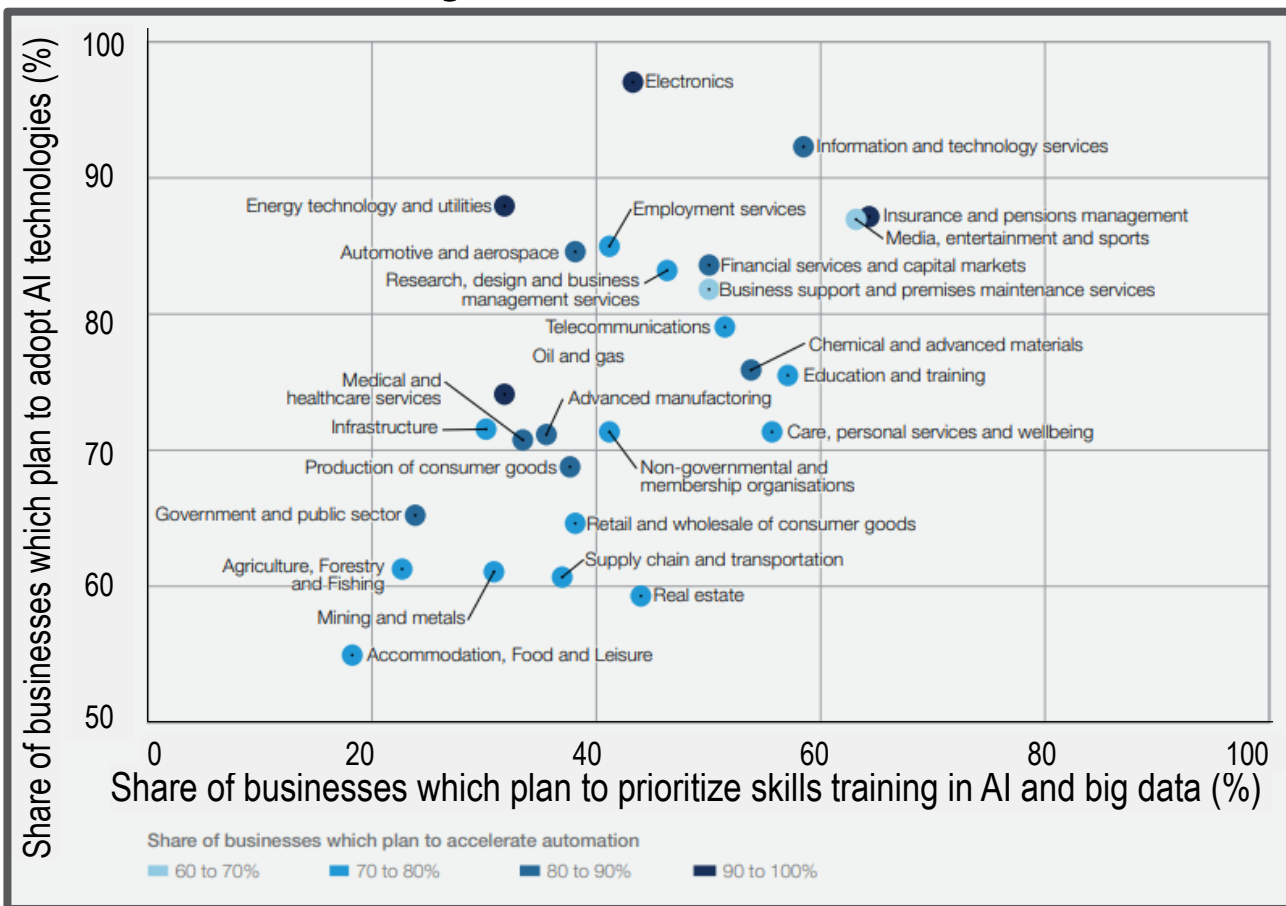
NAIRR Pilot

National Artificial Intelligence Research Resource Pilot

*Brookings, M. Muro and J. Jacobs, “New data shows that without intervention, generative AI jobs will continue to cluster in the same big tech hubs”, Oct 2, 2023

High demand for AI skills – *Requires broad AI education and workforce training*

AI skills are in demand in nearly every economic sector



Everyone must become AI literate

S.3792 - Technology Workforce Framework Act of 2024

Aims to improve U.S. pipeline for AI and emerging tech

Builds upon NIST's NICE (National Initiative for Cybersecurity Education) framework

Outlines knowledge, skills, and abilities needed to fulfill roles in AI

Source: World Economic Forum, Future of Jobs Survey 2023