



# A CALL FOR A NATIONAL RESEARCH CLOUD



## The challenge

### AMERICAN INNOVATION IN ARTIFICIAL INTELLIGENCE IS AT RISK



Research conducted at American colleges and universities has created fundamental breakthroughs powering the U.S. economy today



AI resources (compute power and data accessibility) are growing out of reach of universities



Imbalance in AI innovation ecosystem between academia, government, and industry

## The solution

### A NATIONAL RESEARCH CLOUD FOR AI ACADEMIC RESEARCHERS

What will a National Research Cloud do?



Provide compute power and data access for universities



Democratize AI development across U.S.



Train a new generation of AI scientists



Power next generation of breakthroughs in AI technologies and applications

## The call to action

Presidents and provosts of 22 top computer science universities support

### A TASK FORCE OF OFFICIALS FROM

GOVERNMENT ACADEMIA INDUSTRY



to establish recommendations for a FUTURE NATIONAL RESEARCH CLOUD.

# 3.4

## MONTHS

Time it takes to double the amount of compute required for the largest AI training runs since 2012

Source: [OpenAI](#)

# 4%↑

Average growth rate in AI PhDs granted 2010-2017

Source: [2019 AI Index Report](#)

# \$1.5M

Estimated compute cost of training the Meena chatbot

Source: [GCP Pricing Calculator estimate of compute reported in arXiv.org](#)

# 22%↑

Growth in AI PhDs granted in 2018

Source: [2019 AI Index Report](#)

## What policymakers can do

- 1 Pass **LEGISLATION** establishing a task force with leaders from government, academia, and industry



- 2 Partner with **ACADEMIA AND INDUSTRY** to create a balanced AI ecosystem



- 3 Invest in American **INNOVATION AND LEADERSHIP** in AI



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