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.

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

3.4 MONTHS

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

Source: OpenAI

$1.5M

Estimated compute cost of training the Meena chatbot

Source: GCP Pricing Calculator estimate of compute reported in arXiv.org

4%↑

Average growth rate in AI PhDs granted 2010-2017

Source: 2019 AI Index Report

22%↑

Growth in AI PhDs granted in 2018

Source: 2019 AI Index Report