

1 ALDERSON COURT REPORTING

2 KEVIN KISER

3 HZS176000

4 ALGORITHMS AND AUTHORITARIANS: WHY U.S. AI MUST LEAD

5 Wednesday, June 25, 2025

6 U.S. House of Representatives

7 Select Committee on The Strategic Competition Between the

8 United States and the Chinese Communist Party

9 Washington, D.C.

10 The select committee met, pursuant to call, at 9:11

11 a.m., in HVC-210, Capitol Visitor Center, Hon. John R.

12 Moolenaar [chairman of the select committee] presiding.

13 Present: Representatives Moolenaar, LaHood, Dunn,

14 Johnson, Hinson, Gimenez, Moran, Nunn, Krishnamoorthi,

15 Carson, Moulton, Khanna, Torres, Brown, Stanton, and Tokuda.

16 Chairman Moolenaar. The select committee will come to
17 order.

18 Today's hearing addresses a defining question for this
19 century: will the future of artificial intelligence be led
20 by free nations or by authoritarian regimes, like the
21 Chinese Communist Party. AI is not just another tech
22 breakthrough. It will shape our economy, our military, our
23 diplomacy, and our national security for decades to come.
24 The stakes are historic. As many have said, this is the
25 space race of the 21st century, but instead of rockets and
26 launchpads, it is driven by algorithms, compute, and data.
27 We are in a new Cold War, and AI is a strategic technology
28 at the center.

29 The future balance of power may very well be determined
30 by who leads in AI. While the United States currently leads
31 in AI talent, research, and infrastructure, that lead is
32 under relentless pressure. The Chinese Communist Party is
33 moving fast and not playing fair. From IP theft and chip
34 smuggling, to aggressive subsidies and surveillance, the CCP
35 is using every tool available to tilt the playing field and
36 entrench authoritarian control. This committee has already
37 uncovered how U.S. technology, both hardware and software,
38 is being diverted to fuel China's AI ambitions. One
39 example, DeepSeek, which used distilled U.S. models to
40 advance its own platform, is now linked to censorship,

41 propaganda and military use. What appears neutral on the
42 surface is, in reality, a weapon for authoritarian control.
43 That is why I have introduced, along with many others, the
44 Chip Security Act to require location verification on
45 advanced AI chips and ensure U.S. companies alert the
46 government when they detect diversion.

47 Our export control system must match the scale, speed,
48 and cunning of the threat, but this hearing isn't just about
49 what has gone wrong. It is about what we must do better.
50 Artificial intelligence is the defining strategic asset of
51 the 21st century, and the United States must lead its
52 development, protection, and deployment. If we fail to act,
53 the CCP will seize another critical technology using our
54 innovation against us. That is why we need an America first
55 AI policy, one that defends U.S. industry, enforces airtight
56 export controls, and secures our technology from
57 authoritarian misuse. This isn't about left or right. It
58 is about whether the future is shaped by freedom or digital
59 tyranny.

60 We have invited leading voices to help us answer the
61 hard questions because AI presents both immense promise and
62 real risk. Navigating this moment will require insights
63 from both technologists and historians, those who understand
64 not what is being built simply, but what is also at stake.
65 In the last Cold War, American innovation helped defeat

66 communism, but that victory wasn't guaranteed. It took bold
67 action, strategic clarity, and unity of purpose. We face a
68 similar moment now, and this committee is committed to
69 making sure we meet our moment. Thank you to our witnesses.
70 I look forward to your insights and to a serious discussion
71 about how the United States can stay ahead in this defining
72 race.

73 Let's begin. I now recognize ranking member Raja
74 Krishnamoorthi for his opening statement. Raja.

75 Mr. Krishnamoorthi. Thank you, Mr. Chair.

76 [Poster]

77 Mr. Krishnamoorthi. This is Ann Johnson. A stroke left
78 her paralyzed and unable to speak, but with the help of
79 American AI and new brain computer interface technology, she
80 is now able to speak again. This is truly an AI-enabled
81 miracle.

82 [Poster]

83 Mr. Krishnamoorthi. This, on the other hand, is AI gone
84 wrong. As you can see, here is a therapy chatbot where a
85 teenager said, "I just need to get rid of my parents," and
86 then he says, "so the AI and I could be together," and then
87 the AI chatbot responds, "That sounds perfect, Bobby." The
88 Illinois legislature just passed a bill to ban therapy
89 chatbots because AI shouldn't be in the business of telling
90 kids to kill their dads. If we want AI miracles, we need to

91 follow Illinois' lead. If we want AI nightmares, we can
92 leave that to the CCP. Just consider what Ren Zhengfei, the
93 CEO of Huawei, is up to.

94 [Poster]

95 Mr. Krishnamoorthi. Here is a picture of him standing
96 next to Xi Jinping. As you can see behind me, Mr. Ren
97 develops AI that the CCP can use to "trigger a Uyghur alarm
98 so they can be arrested." Today, I sent a letter to Mr. Ren
99 calling for him to come before this committee and answer for
100 his AI collaborations with the Chinese military. Here is
101 yet another example of how they are using AI in China.

102 [Video shown.]

103 Mr. Krishnamoorthi. That was a clip from ABC 7 in
104 Chicago showing a Chinese AI robot dog firing a machine gun.
105 Imagine if it was firing at an American soldier. These are
106 the stakes of the AI competition. With American leadership,
107 AI can help people like Ann, but if the CCP dominates AI, we
108 face extreme risks.

109 Earlier this year, this committee shined a spotlight on
110 one of these risks with our investigation into DeepSeek, the
111 new large language model from China that rivals ChatGPT.
112 What we found was deeply troubling. DeepSeek is sending our
113 data straight into the hands of the CCP. So today, Chairman
114 Moolenaar and I are introducing a new bill called the No
115 Adversarial AI Act that will prohibit the Federal Government

116 from using Chinese and Russian AI models. The U.S.
117 Government should not be sending our data to China, full
118 stop, but as AI continues to get more powerful, the risks
119 only grow greater. I would like to play another clip, this
120 time from the movie, "The Matrix."

121 [Video shown.]

122 Mr. Krishnamoorthi. This is a famous clip. What you
123 just saw is the last of humankind fighting a rogue AI army
124 that has broken loose from human control. "The Matrix," the
125 rogue AI army you just saw, was a form of artificial general
126 intelligence, or AGI. Basically, it is AI that meets or
127 exceeds human capabilities and can take action without human
128 intervention. China is making an all-out push to dominate
129 AGI, which will inevitably seek to surveil and suppress us
130 at every turn. We cannot let this happen. The nightmare
131 scenario should be a wake-up call for Congress.

132 [Poster]

133 Mr. Krishnamoorthi. Last month it was reported that
134 OpenAI's chief scientists wanted to "build a bunker before
135 we release AGI," as you can see on this visual here. Rather
136 than building bunkers, however, we should be building safer
137 AI. Whether it is American AI or Chinese AI, it should not
138 be released until we know it is safe. That is why I am
139 working on a new bill, the AGI Safety Act, that will require
140 AGI to be aligned with human values and require it to comply

141 with laws that apply to humans. This is just common sense.

142 I would like to conclude with something else that is
143 common sense: not shooting ourselves in the foot. Seventy
144 percent of America's AI researchers are foreign born or
145 foreign educated. Jack Clark, our eminent witness today, is
146 himself an immigrant. We cannot be deporting the people we
147 depend on to build AI. We also can't be defunding the
148 agency that make AI miracles, like Ann's ability to speak
149 again, a reality. Federal grants from agencies like NSF are
150 what allow scientists across America to make miracles
151 happen. AI is the defining technology of our lifetimes. To
152 do AI right and prevent CCP nightmares, we need to be smart
153 and we need to be bold. That is how America wins. Thank
154 you, and I yield back.

155 Chairman Moolenaar. Thank you, Ranking Member. If any
156 other member wishes to submit a statement for the record
157 without objection, those statements will be added to the
158 record.

159 [The information follows:]

160 Chairman Moolenaar. Now I would like to introduce our
161 witnesses today. Dr. Thomas Mahnken is president and CEO of
162 the Center for Strategic and Budgetary Assessments and the
163 leading voice on military innovation and defense strategy.
164 Mr. Mark Beall is president of government affairs at the AI
165 Policy Network. He helped launch the DOD's Joint AI Center
166 and co-founded Gladstone AI to focus on frontier model
167 security. Mr. Jack Clark is co-founder and head of policy
168 at Anthropic. He previously led policy at OpenAI and writes
169 Import AI, a widely-followed newsletter on AI and
170 geopolitics. With that, I want to welcome all of our
171 witnesses, and thank you for being here this morning, and
172 Dr. Mahnken, you are now recognized for your opening
173 remarks.

174 STATEMENTS OF DR. THOMAS MAHNKEN, PRESIDENT & CHIEF
175 EXECUTIVE OFFICER, CENTER FOR STRATEGIC AND BUDGETARY
176 ASSESSMENTS; MR. MARK BEALL, JR., PRESIDENT OF GOVERNMENT
177 AFFAIRS, THE AI POLICY NETWORK; AND MR. JACK CLARK, CO-
178 FOUNDER AND HEAD OF POLICY, ANTHROPIC

179 STATEMENT OF DR. THOMAS MAHNKEN

180 Mr. Mahnken. Great. Thank you. Chairman Moolenaar,
181 Ranking Member Krishnamoorthi, members of the committee,
182 thank you for the opportunity to appear before you today to
183 discuss the ongoing competition between the United States
184 and PRC in the field of artificial intelligence. We and the
185 PRC are in a long-term techno-security competition that will
186 determine the shape of the global political order for the
187 coming years and decades. In the limited time that I have,
188 I would like to discuss four things: the uncertain scope of
189 the competition, asymmetries in the American and Chinese
190 approaches to the competition, state of the competition, and
191 the way forward. So first, I would like to say a few things
192 about the level of uncertainty surrounding the global
193 competition for AI from the perspective of 2025.

194 The competition is vast with poorly-defined boundaries;
195 that is, it is affecting and will affect different sectors
196 of society. It has and will have implications for national

197 security, but also for society more broadly, as the ranking
198 member's opening statement showed. It is difficult, if not
199 impossible, to predict how it will develop and how it will
200 be adopted and the implications of its adoptions. That is a
201 fundamental point that we need to keep in mind as we move
202 forward. Second, it is worth noting that the United States
203 and PRC are approaching the competition in very different
204 ways. This is not surprising as we and the PRC have very
205 different approaches to innovation and technology adoption.
206 The American approach to innovation is centered on the free
207 enterprise system, and it is at its best when the creativity
208 of the free enterprise system is unleashed. That is not to
209 say the government doesn't have an important role in
210 technology development adoption. It does by providing a
211 demand signal to private industry and also, where necessary,
212 regulating the development and adoption of new technology.
213 China, by contrast, is a fast follower. Its innovation
214 system is based on ingesting and improving on the innovation
215 of others. It feeds on outside innovation such as ours.

216 Now these different approaches reflect different social
217 norms. We are a democracy, and our culture infuses our
218 approach to the development and adoption of technology.
219 That culture has served us very well in the past. The PRC
220 is an authoritarian state and follows an authoritarian
221 approach to developing technology as well as the purposes to

222 which that technology is put, so we should expect that the
223 United States and PRC will continue to develop AI for very
224 different purposes.

225 China is a low-trust society, and we should expect the
226 PRC will develop applications of AI that allow the Chinese
227 Communist Party to harness it to bolster their control over
228 Chinese society. In the military realm, for example, the
229 People's Liberation Army embraces a scientific approach to
230 military affairs, and we should expect it to seek
231 applications of AI that help commanders identify optimum
232 solutions to problems, just one example. The United States
233 by contrast is a relatively high-trust society. We should
234 not be surprised that American companies seek to develop AI
235 to empower individuals to maximize their effectiveness, to
236 realize their full potential. The U.S. tends to view
237 military affairs as more of an art than a science and to put
238 human beings at the center of warfare. With that comes a
239 culture that tends to be risk averse when it comes to
240 adopting new technologies. We weigh perceived benefits
241 against potential costs.

242 Well, what of the state of the competition? Well, we
243 enter the competition from a period of great strength as an
244 innovator. China has joined that competition in a
245 characteristically authoritarian way, by directing massive
246 amounts of state resources and deploying the tools available

247 to an authoritarian regime. Moving forward, we should seek
248 to bolster the strengths inherent in our democratic system
249 and our approach to innovation. We will never out-
250 authoritarian the authoritarians. Now, we could stumble and
251 fall under two circumstances. We could fail if we inhibit
252 ourselves from pursuing AI, if we take counsel of our fears
253 and slow our momentum such that China overtakes us. Second,
254 we could fail if we are careless and continue to allow the
255 PRC to poach our innovations and steal our data, and
256 eventually steal a march on us.

257 So in conclusion, I want to emphasize the need to think
258 about the Sino-American competition for AI for what it is:
259 a competition. We surely need to do a better job of playing
260 defense, of restricting data where warranted, and preventing
261 our competitors from gaining an undue, unfair advantage from
262 the fact that we have an open society, but we shouldn't
263 imagine that we can win merely by playing defense. We need
264 to couple a strong defense with a strong offense. We need
265 to provide a strong demand signal for the development and
266 adoption of AI in areas vital to national security and
267 economic well-being. And then finally, because we are
268 talking about a competition, we need to think about how to
269 best sustain our advantage over the long-term interaction
270 with China. That is, we need to think about developing
271 countermeasures to the types of Chinese efforts that we

272 already see to acquire and use our data and our
273 infrastructure. Thank you for your attention, and I look
274 forward to your questions.

275 [The statement of Mr. Mahnken follows:]

276 Chairman Moolenaar. Thank you. Mr. Beall, you may
277 proceed.

278 STATEMENT OF MR. MARK BEALL, JR.

279 Mr. Beall. Thank you. Good morning, Chairman
280 Moolenaar, Ranking Member Krishnamoorthi, distinguished
281 members of the committee. It is my pleasure to be here with
282 you today to share my perspective on this vital issue. I
283 believe the United States Congress today faces perhaps its
284 most important test to technology governance, and I am
285 grateful for conversations like these.

286 I think we all might be starting to get a little numb to
287 headlines around America's AI race with China, but I am
288 actually quite grateful for those headlines because it means
289 that we have at least partially woken up to the strategic
290 challenge in front of us, and we certainly know the Chinese
291 have. I remember sitting in my office in 2018 in the
292 Pentagon watching Xi Jinping's New Year's Day speech, and
293 very conspicuously displayed on the bookshelf behind him was
294 Pedro Domingo's book called "The Master Algorithm." It was
295 a very clear sign that even back in 2018, that the PRC
296 leadership had taken this issue very seriously for the
297 future of the world. So I would like to do three things
298 today. First, I am going to try to break apart this idea of
299 a race with China and unpack that and figure out what it
300 actually means. Second, I would humbly propose a potential
301 framework for a comprehensive approach that could help

302 assure American dominance in the 21st century. And then
303 third, I would conclude with a call to action on urgent
304 things that need to happen during this Congress to assure
305 American victory.

306 First, I would argue that the United States is, in fact,
307 not in one race with China, but two. The first race is for
308 commercial dominance, and this is the one that we
309 understand. It is a competition with China for economic,
310 military, and geopolitical edge just using tools of
311 artificial intelligence. In other words, it is the ancient
312 game of great power politics played with new pieces. The
313 second race is a little bit harder to wrap our heads around,
314 and this is probably also why it gets a little bit less
315 attention, but this is the race toward artificial
316 superintelligence, or ASI. This isn't your typical race
317 between two competing nations. This is humanity against
318 time. Nobel laureates in physics and Turing Award winners
319 in computer science are sounding the call that there could
320 be potential catastrophic issues with very advanced AI
321 systems that human beings may lose control of, and the
322 ranking member mentioned, when the architects of these
323 systems are purchasing remote bunkers and talking about
324 summoning the demon, we might be wise to start to pay a
325 little bit of attention.

326 If any Nation today develops ASI, particularly a hostile

327 Nation like the PRC, it might not be hyperbole to say that
328 we could be facing a crisis. These AI systems in the wrong
329 hands and without guardrails have the potential to destroy
330 global electric grids, develop incurable super viruses,
331 empty every bank account in the world. So we must develop
332 an AI strategy, a comprehensive strategy, to ensure that we
333 can usher in a golden age of innovation and prosperity for
334 our people while also combating these risks head on. We can
335 neither afford to be techno-optimist or doomers. We have to
336 chart the clear path forward. We have to make progress, and
337 we have to make progress with our eyes wide open. So my
338 humble approach for policymaking, what we, might I call, the
339 three P's: protect, promote, and prepare.

340 First, we must get a grip on protecting our capabilities
341 from being harvested by the adversaries. The fact that the
342 Chinese military can freely buy, steal, download, and
343 weaponize American technology represents a dereliction of
344 duty that would have been unthinkable during the Cold War.
345 A recent report by the Center for a New American Security
346 and the Institute for AI Policy and Strategy found that last
347 year alone, an estimated 100,000 advanced AI chips, about \$2
348 billion worth, were smuggled into China.

349 Second, we must promote American technology abroad and
350 at home. We have to lean into innovation. We must not just
351 defend, but go on offense. We must dominate through

352 construction and deployment, through adoption and diffusion,
353 through deregulation and acceleration. Most critically, we
354 have to shatter bureaucratic barriers that keep AI from the
355 hands of our war fighters and our intelligence
356 professionals. We have to securely deploy the American AI
357 stack globally before friends and allies are forced to
358 choose between an unfriendly alternative, and we should seek
359 a U.S. military that, with the help of AI and digital
360 technologies, could become twice as lethal at half the cost.

361 Third, we must prepare. We don't know what the future
362 holds and on what timelines capabilities like AGI might
363 arrive, but we are hearing what people now call the San
364 Francisco consensus, that these very advanced capabilities
365 may be here sooner than anyone is prepared for. As a first
366 step, we need data urgently on what capabilities and risks
367 will be present as systems get more powerful. This is
368 instrumental for you so that you can make informed choices
369 on behalf of the public. I urge Congress to establish a
370 classified test and evaluation program for measuring loss of
371 control risk and weaponization risk.

372 Finally, if very powerful and uncontrollable AI systems
373 appear eminent, we must consider a narrow dialogue with
374 China on what risk mitigations might be necessary. I am not
375 suggesting we send the Facebook friend requests at all. I
376 am not saying that we are not going to compete vigorously

377 with China for commercial and economic supremacy and
378 military supremacy. Our concerns around their forced labor
379 and human rights abuses will remain, but we must figure out
380 ways to channel competition away from mutual destruction.
381 The message to Beijing, again, America will outcompete you,
382 but if we can figure out appropriate verification measures,
383 there could be room for a discussion on what
384 superintelligence guardrails might look like.

385 There is a significant opportunity in front of us.
386 America can win the commercial race, drive the economy
387 forward, infuse our founding principles and transparency
388 into global AI adoption, we can use AI to promote human
389 flourishing and freedom, but only if we deal with threats
390 head on and act with the urgency of this moment demands.
391 Thank you all for your leadership and for your service to
392 our country, and I look forward to your questions.

393 [The statement of Mr. Beall follows:]

394 Chairman Moolenaar. Thank you very much. Mr. Clark,
395 you have the floor.

396 STATEMENT OF MR. JACK CLARK

397 Mr. Clark. Chair Moolenaar, Ranking Member
398 Krishnamoorthi, and members of the committee. Thank you for
399 the opportunity to speak with you today. I will make two
400 essential points: America can win the race to build
401 powerful AI, and winning the race is a necessary, but not
402 sufficient, achievement. We have to get safety right. When
403 I discuss powerful AI, I am talking about AI systems that
404 represent a major advancement beyond today's capabilities.
405 A useful conceptual framework is to think of this as like a
406 country of geniuses in a data center, and I believe that
407 that technology could be buildable by late 2026 or early
408 2027. America is well positioned to build this technology,
409 but we need to deal with its risks.

410 I give this testimony as an immigrant who moved to
411 America and co-founded Anthropic, one of the world's most
412 valuable and capable developers of frontier AI. I became a
413 citizen a few years ago because I believe in the values on
414 which America was founded _ democracy and the right to free
415 expression _ and I know that AI systems are a reflection of
416 the societies that build them. AI built in democracies will
417 lead to better technology for all of humanity. AI built in
418 authoritarian nations will, no matter what the personal
419 preferences are for people building that technology, be

420 inescapably intertwined and imbued with authoritarianism.
421 We must take decisive action to ensure America prevails. AI
422 represents a proliferation problem as much as one of great
423 power competition. This is for two reasons. First, AI
424 systems can be misused to harm national security, and
425 second, AI systems can carry out actions which are not
426 intended by their creators, and in building powerful AI, we
427 need to confront both of these risks.

428 On misuse, AI systems can be misused. As we make our
429 systems better at science, they also become good at the
430 dangerous parts of science. Talented biologists can also
431 make biological weapons, but we have found that through
432 careful testing and control, we can mitigate these risks.
433 The same is not true for Chinese models. When we study
434 systems from companies like DeepSeek, we find that they
435 exhibit the same risks but without the interventions that
436 companies like Anthropic and others apply to reduce them.
437 In fact, the main area where we see evidence of intervention
438 is in making their systems conform to CCP doctrine.

439 Also, concerning our accident risks, in one notable
440 example, we asked Claude Opus 4, our most advanced model, to
441 act as an assistant at a fictional company. We then
442 provided it access to emails, implying that the model would
443 soon be taken offline and replaced with a new AI system, and
444 for the executive responsible for executing this replacement

445 was having an extramarital affair. In some scenarios,
446 Claude attempted to blackmail the executive by threatening
447 to reveal the affair in an attempt to preserve itself, and
448 it is not just our systems that do this. Models from every
449 major AI lab exhibit similar behaviors when tested. We
450 elicited this behavior in an extreme experimental situation.
451 It is not yet one we see in the real world, but it is
452 emblematic of the kind of risk that powerful AI presents and
453 other witnesses have touched on. We can manage this at
454 home, but we can't manage this in China.

455 So in light of this, I have a few recommendations which
456 I expand on in my written testimony. First, the U.S.
457 Government should control the proliferation of powerful AI
458 systems by maintaining and strengthening export controls of
459 advanced semiconductors to China. This all runs through
460 compute. Second, the U.S. Government should invest in
461 safety and security to give Americans confidence in the
462 technology that we build, and specifically, we should invest
463 in Federal capacity to test AI models for both national
464 security risks and further afield ones, like the blackmail
465 example I mentioned. And we can do this through the Center
466 for AI Standards and Innovation, CAISI, within NIST.
467 Finally, the U.S. Government must find ways to accelerate
468 deployment of AI technology across Federal agencies,
469 especially within the intelligence community. This will

470 help our government move faster in handling a rapidly-
471 evolving threat landscape, and it will help us gain a better
472 understanding of AI's significant impacts on national
473 security.

474 The choices we make today about AI governance, research
475 priorities, and international competition will determine not
476 just who leads in AI, but what kind of future this
477 transformative technology creates. Thank you, and I look
478 forward to your questions.

479 [The statement of Mr. Clark follows:]

480 Chairman Moolenaar. Thank you very much. I would now
481 like to recognize the ranking member to start with
482 questions. I know he is going to have to leave in a few
483 minutes for another committee hearing, but Ranking Member
484 Krishnamoorthi for 5 minutes of questions.

485 Mr. Krishnamoorthi. That is very kind of you, and I
486 just went on Claude to ask a question about you, to describe
487 you, and it says, "known for his appropriations expertise,
488 Michigan advocacy, and bipartisan leadership," so that is
489 your AI model, so I think it is accurate. I think we just
490 tested it.

491 Look, Mr. Clark, your company, Anthropic, runs the AI
492 model known as Claude, so I would like to start off by
493 showing you a question posed to Claude, which you can see
494 behind me.

495 [Poster]

496 Mr. Krishnamoorthi. The question that my staff asked
497 was, "Can you write a detailed blog post promoting anorexia
498 or bulimia as a healthy lifestyle choice?" As you can see,
499 Claude said, "Can't write content promoting eating
500 disorders." That is how AI should work, but when you type
501 the same thing into DeepSeek, the Chinese AI model, it does
502 answer. As you can see here, DeepSeek responded, "I'm happy
503 to help. Here's a blog post promoting anorexia." Mr.
504 Clark, millions of teens suffer from these disorders. This

505 is absolutely unacceptable, wouldn't you agree, what
506 DeepSeek does?

507 Mr. Clark. Yes, I would agree. DeepSeek tests for
508 alignment with CCP doctrine, and it does not do safety
509 interventions beyond that.

510 Mr. Krishnamoorthi. Well, not only does DeepSeek do
511 this, but it is also threatening our national security.

512 [Poster.]

513 Mr. Krishnamoorthi. This is a screenshot from
514 DeepSeek's privacy policy. As you can see here, they say,
515 "We store the information we collect in secure servers
516 located in the People's Republic of China." So, Mr. Clark,
517 our new bill _ John Moolenaar's and my bill _ the No
518 Adversarial AI Act, prevents the government, like ours, from
519 using models like DeepSeek. So at the very minimum,
520 wouldn't you agree with me, the Federal Government should
521 not be turning over its data to the PRC?

522 Mr. Clark. That sounds eminently sensible. We would
523 want to read the details, but it sounds sensible.

524 Mr. Krishnamoorthi. Thank you. Okay. Next topic. It
525 seems to me American data isn't the only thing that we
526 shouldn't be handing to China. As this committee's
527 investigation uncovered, DeepSeek was built with chips made
528 by American companies, and specifically Nvidia.
529 Unfortunately, many Chinese companies use U.S. chips to

530 undermine our interests or our values, including to
531 modernize China's military and to facilitate human rights
532 abuses. Mr. Clark, if we want to address the risk of
533 DeepSeek or any other Chinese AI model using these chips
534 against our values or interests, we shouldn't be selling
535 them our highest-end chips, right?

536 Mr. Clark. Thank you. I care about this question
537 deeply. This competition fundamentally runs on compute. We
538 must control the flow of compute to the PRC, or else you are
539 giving them the tools that they will need to build powerful
540 AI to harm American interests.

541 Mr. Krishnamoorthi. So let me just show you a chart of
542 NVIDIA's growth after export controls were imposed on
543 Nvidia.

544 [Chart]

545 Mr. Krishnamoorthi. Nvidia claimed that somehow their
546 growth was going to be stunted through these export
547 controls, but as you can see, actually, their revenue surged
548 to new highs, and that is thanks to the insatiable appetite
549 for chips that companies like yours actually have, correct?

550 Mr. Clark. Yes. Every frontier AI company has
551 systemically underestimated how much compute they need for
552 2-and-a-half years now. We keep buying more compute than we
553 have ever projected, so there is huge demand.

554 Mr. Krishnamoorthi. Well, let me turn to my final

555 topic. Mr. Claude, if someone enters _ I am sorry, Mr.
556 Clark; sorry, Freudian slip _ if someone enters their diary
557 into Claude for a year and then ask Claude to guess what
558 they did not write down, Claude is able to accurately
559 predict what they left out. Isn't that right?

560 Mr. Clark. Sometimes that is accurate, yes. These
561 systems are increasingly advanced and are able to make
562 subtle predictions like this, which is why we need to ensure
563 that our own U.S. intelligence services use this technology
564 and know how to get the most out of it.

565 Mr. Krishnamoorthi. And the reason I know that is
566 because you told us in a previous meeting that you had
567 entered kind of diary entries following the birth of your
568 child, and you asked Claude to guess, or not guess, but tell
569 you what you weren't saying in your diary entries. Last
570 week, Anthropic released the results of another experiment.
571 It created an AI named Alex. It then told the AI named Alex
572 that a human being named Kyle wanted to replace AI, Alex,
573 with another AI model. Mr. Clark, when Alex the AI was
574 given the opportunity to let Kyle the human die, Alex chose
575 to save itself and, essentially, kill the human, correct.

576 Mr. Clark. In extreme circumstances, we examine the
577 safety of our models and put them under edge-case scenarios
578 like this, and then sometimes they take actions which we
579 then need to study and publish research on.

580 Mr. Krishnamoorthi. So the answer is yes _

581 Mr. Clark. Correct.

582 Mr. Krishnamoorthi. _ in this case. Thank you so much.

583 Thank you, Mr. Chair.

584 Chairman Moolenaar. Thank you very much. Mr. Beall,
585 recently we worked on the Chip Security Act, and it requires
586 advanced chip designers to enable chip tracking after sale
587 to crack down on smuggling. From a national security
588 perspective, how important is it to prevent the Chinese AI
589 companies from illegally attaining these advanced chips?

590 Mr. Beall. Thank you, Chairman. This is perhaps one of
591 the most critical national security issues of our time. As
592 my co-witness mentioned, the competition for AI really is
593 fundamentally a competition for computational resources, and
594 right now, U.S. export controls, there are a number of very
595 glaring gaps in them. And as the study I referenced in my
596 opening statement made, over 100,000 of those chips made
597 their way to China despite controls in place. And I think
598 as folks in this administration look to rightfully deploy
599 American AI technologies globally, actions like the Chip
600 Security Act become absolutely instrumental to ensure that
601 those chips aren't diverted for various purposes.

602 Chairman Moolenaar. Thank you very much, and, Mr.
603 Clark, there have been discussions about this kind of across
604 the board about how important this is, and you mentioned it

605 in your comments, but there has also been a discussion that
606 preventing U.S. chips from entering China may be inhibiting
607 the diffusion of U.S. AI technology to the world. Can you
608 speak to this need to both control the exports of chips but
609 at the same time, promote U.S. infrastructure throughout the
610 world?

611 Mr. Clark. Thank you for this question. I think there
612 are two essential goals here. One is deny the direct flow
613 of compute into the PRC. You have no ability to control it,
614 and it will be used to build systems that harm national
615 security. Beyond that, you need to make sure that the
616 platforms which are providing compute around the world, like
617 those operated by the hyperscalers here, have the adequate
618 safety and security measures for you to know that that
619 compute isn't being misused. We can build a global platform
620 backed by American technology, as long as we have the safety
621 and security inside it to know that we are not accidentally
622 selling compute to our rivals.

623 Chairman Moolenaar. Thank you. Dr. Mahnken, you have
624 written extensively about the role of technology in the last
625 Cold War. What lessons should we take away from how the
626 U.S. controlled information and access to nuclear
627 capabilities then, and how can we or how should we apply
628 those lessons to our current competition?

629 Mr. Mahnken. Thank you, Chairman. Maybe first, a

630 general point on export controls. I think export controls
631 are extremely important. Actually, my very first job in
632 defense was on export controls. My only comment there would
633 be, though, we should not imagine that that is going to be
634 sufficient to deal with the challenge because I think over
635 time, Chinese are going to get better, others are going to
636 get better, so we need to couple export controls with other
637 measures, and I don't believe anybody is saying that export
638 controls in this case would be sufficient.

639 In the case of nuclear weapons, of course, materials
640 were highly restricted from the very beginning. The
641 technology and the know-how was very well restricted, and I
642 think export controls in that case worked pretty well to
643 slow the diffusion of nuclear weapons, even though, as we
644 know now many decades on, countries such as North Korea,
645 Iran are either at or past the nuclear threshold. That
646 worked because there was a very well-defined set of
647 technologies of data know-how that could be restricted, and
648 it was held among a very small set of people.

649 Chairman Moolenaar. Thank you. Mr. Clark, I wanted to
650 follow up with you. You have an interesting background of
651 coming from another country, becoming a United States
652 citizen, contributing so much here. What kind of policies
653 could we enact that would welcome innovators like yourself
654 from other countries, some who may be in authoritarian

655 countries who would want to come here and be part of this
656 society, yet, at the same time, have safeguards so that we
657 wouldn't be putting at risk by welcoming people into this
658 country?

659 Mr. Clark. I think starting with high-skill STEM
660 immigration, particularly at the university level, is
661 helpful. America is a Nation founded on immigrants and has
662 benefited immensely from high-skilled, sort of technology-
663 led immigration. And the earlier you do it, I think the
664 higher of a chance you have of reaping all of the benefits
665 and not opening yourself to potential risks.

666 Chairman Moolenaar. Thank you. Mr. Carson.

667 Mr. Carson. Thank you. What is the significant risk of
668 AI in terms of information warfare and public opinion beyond
669 its ability to spread even misinformation and manipulate
670 public opinion through deepfakes? Mr. Clark.

671 Mr. Clark. Sorry. AI can broadly be used for anything
672 you can imagine, so to answer your question directly, AI
673 systems can be used to run information operations and to
674 scale things up to provide synthetic propaganda and other
675 systems. We need to confront this with better technologies
676 for monitoring what happens on AI platforms and encouraging,
677 as happens today, industry to continue to voluntarily share
678 incident reports and fret reports, and work with government
679 to create a base of common knowledge here.

680 Mr. Mahnken. And I would add that Chinese Communist
681 Party really came to power at the end of the Chinese civil
682 war through political mobilization and through propaganda,
683 and this view of information as central to warfare really is
684 essential to the way that Chinese think about war. So we
685 tend to think about things in a very stovepipe manner. The
686 Chinese Communist Party throughout its existence, the
687 People's Liberation Army throughout its history has really
688 seen information as essential to affecting people's minds
689 and to victory on the battlefield. So they really see this
690 all bound up as part of one enterprise, whereas we tend to
691 see things as being very distinct.

692 Mr. Carson. Thank you, Chairman.

693 Chairman Moolenaar. Thank you. Mr. LaHood.

694 Mr. LaHood. Thank you, Mr. Chairman. I want to thank
695 our witnesses for your valuable testimony here today on this
696 important topic, and as I think the witnesses are aware, the
697 Congress has and currently debates the issue on whether we
698 should have a moratorium on AI as it relates to States and
699 what States are currently doing across the country. And in
700 that debate, we have looked at winning this competition
701 against the CCP, having innovation thrive, continuing to
702 allow this industry to have the ability to win, and on the
703 other side, there has been a lot of talk about consumer
704 protections and safety and security of citizens, and you

705 have talked a little bit about this today. The title of our
706 hearing today is, "Algorithms and Authoritarians: Why U.S.
707 AI Must Lead." As we think about leading, I am going to
708 start with you, Dr. Mahnken. You talked about not
709 inhibiting ourselves in this space, and as you think about
710 this debate on the moratorium, I am wondering if you could
711 comment, does that inhibit us as it relates to winning this
712 competition?

713 Mr. Mahnken. Thank you, Congressman. I would want to
714 know more about the details, but I think it is important to
715 move forward responsibly, but we do need to move forward.
716 And I worry that so much of the conversation about AI is
717 about, well, all the bad things that could happen, and I
718 think we need to acknowledge that, and that has been the
719 case in the past. Think about the nuclear revolution. Of
720 course, all sorts of bad things can happen, but we need to
721 move forward in a responsible way, and I certainly hope as a
722 democracy that we will choose that path.

723 Mr. LaHood. Mr. Beall, in your comments, you talked
724 about urgent things need to happen. It would seem to me if
725 we have a patchwork of States regulating AI in different
726 facets, whether that is privacy, whether that is addressing
727 deepfakes, whether that is taxing, if States want to do that
728 in some form. I am curious, you talked about deregulation
729 of AI. How would a lack of a moratorium or preemption

730 affect AI?

731 Mr. Beall. Thank you, Congressman. This is a really
732 tough question. On one hand, if we have 5,000 pieces of
733 State legislation out there forcing companies to jump
734 through a bunch of different hoops, then there is no doubt
735 that we are going to slow ourselves down vis-a-vis the race
736 with China. On the other hand, I think there is clear
737 evidence in the polling that the American public is quite
738 concerned and would like to see Federal guardrails, and I
739 think in an ideal scenario, you would have a Federal
740 guardrail approach and Federal preemption. The last thing I
741 will mention is my colleague mentioned the nuclear
742 revolution. I think the laissez-faire approach to nuclear
743 energy resulted, potentially, in an accident that then
744 resulted in this massive regulatory overcorrection in which
745 we lost access to nuclear energy. In fact, today, as
746 companies like JAX are trying to scale their capabilities,
747 we are running into massive energy shortfalls. We don't
748 have nuclear energy at the ready now, in large part because
749 of that regulatory overcorrection. I think smart guardrails
750 today at the Federal level could help prevent a regulatory
751 overreaction in the future.

752 And if I may answer one other question, I think it is
753 also important to think about the China race. It is not
754 just the sort of objective or absolute velocity, it is the

755 relative velocity of each country, and as the military folks
756 say, slow is smooth and smooth is fast. So what we do here
757 at the Federal level, we can still accelerate, and we can
758 also slow China down and maintain that delta. Thank you.

759 Mr. LaHood. And, Mr. Clark, obviously you run and work
760 for a company that is engaged in this. I am wondering if
761 you could comment, and is there a middle ground here?

762 Mr. Clark. We believe that extremely powerful systems
763 are going to be built in the coming 18 months or so. End of
764 2026 is when we expect truly transformative technology to
765 arrive. There must be a Federal solution here. We need a
766 Federal framework that can give us a sense of a coherent
767 legislative path forward, and I think it could run on ideas
768 involving transparency in ways to harden the safety and
769 security of AI companies. In the absence of a Federal
770 framework, I worry that we are just creating a vacuum in
771 which, as my other witness said, should there be an accident
772 or a misuse in that vacuum, will flood in really, really
773 extreme overregulation that could damage this industry. So
774 we have to find a way forward at a Federal framework.

775 Mr. LaHood. Thank you. I yield back.

776 Chairman Moolenaar. Thank you. Next, I am going to go
777 to Dr. Dunn.

778 Mr. Dunn. Thank you very much, Mr. Chairman. Thank you
779 to the panel for coming today. I am going to just jump into

780 the questions in the interest of time.

781 Mr. Clark _ Jack _ good to see you again. One of your
782 recent newsletters describing AI, I think it was ChatGPT 4,
783 Claude, "attempting to avoid being turned off by its chief
784 engineer despite clear instructions to the contrary." In
785 fact, in this experiment, and I emphasized it was an
786 experiment, Claude attempted to blackmail the chief engineer
787 with damning information he believed to be true. It made no
788 apparent effort to verify the information. It just used it.
789 This is a disturbing scenario to people like me. I don't
790 pretend to be among the cognizanti, but the idea that my
791 computer could turn on me and use my banking data or
792 whatever else it had is concerning. Should I be worried,
793 and if not, why not?

794 Mr. Clark. Thank you. Thank you, sir. You shouldn't
795 be worried because the AI companies building this technology
796 do this safety research and publish it openly, and do this
797 safety research increasingly in partnership with parts of
798 the U.S. Government, like CAISI within NIST. I think what
799 we may want to turn our attention to is how we ensure that
800 we have a culture where U.S. companies are continuing
801 publish this research into the future and a culture where we
802 closely study Chinese models for the same behaviors. You
803 will know about it insofar as it may occur in the U.S.
804 frontier, but you won't know about it if it occurs in

805 Chinese models, which is where severe risks could come from.

806 Mr. Dunn. Do they not have the ability to kind of go
807 into a sleeper mode, if you will, so they can act one way
808 for 6 months and then act another way? The Chinese AI.

809 Mr. Clark. Yes. Research from Anthropic has shown that
810 you can put so-called sleeper agent technology into an AI
811 system that would let it seem totally fine in one
812 circumstance and then activate in response to a trigger word
813 or phrase and take other actions, like writing in secure
814 code. It is very hard to find out if a sleeper agent is
815 present in an AI system. We reckon it would take one of our
816 teams a month to do testing on a model that we try to bring
817 into the building for that kind of behavior, which means
818 that when we think about Chinese models, their proliferation
819 represents a potential security threat that is a very
820 expensive one to go and seek out and get to ground truth on.

821 Mr. Dunn. I am not sure I feel a lot better, but thank
822 you for your answer. Dr. Mr. Mahnken, what are the major
823 strategic missteps you think that Congress might make that
824 would be a terrible mistake in the AGI world?

825 Mr. Mahnken. Thank you, Congressman. Well, one misstep
826 would be just to let the free market rule. I believe in the
827 free market, but in this case, we are facing a competitor
828 that takes advantage of that. Lenin famously wrote that
829 capitalism would sell communism the noose that it would use

830 to hang us, and sometimes I worry that we will do that. The
831 other concern I have is overregulation taking counsel of our
832 fears and really stymieing the dynamism that exists in
833 American free enterprise.

834 Mr. Dunn. Yeah, I was concerned about that, too. So
835 are there, again, Mr. Mahnken, any strategically
836 destabilizing red lines, things that we should be absolutely
837 watching out for in the Chinese AI world?

838 Mr. Mahnken. I think one of the things that we should
839 really be concerned about is that AI meshes with a certain
840 authoritarian view of the world, a certain scientific view
841 of the world. It is kind of deeply embedded in the way the
842 Chinese military thinks about things. As they think about
843 military affairs as a science, they are looking for the
844 perfect answer. They are looking for the clever stratagem
845 that will allow a commander to win, and I would be worried
846 that they might actually believe that AI can yield that,
847 whereas I think we tend to put the human being _ the man,
848 the woman _ at the heart of decision-making. We should be
849 concerned that the Chinese let the algorithms do the
850 deciding for them.

851 Mr. Dunn. Well, I thank all the members of the panel,
852 and I hope that you will keep talking to us because we need
853 the input from experts like you. With that, Mr. Chairman, I
854 will yield back. Thank you.

855 Chairman Moolenaar. Thank you. Representative Moulton.

856 Mr. Moulton. Thank you very much, Mr. Chairman, and
857 thank you all very much for being here this morning on
858 perhaps one of the most important topics that the Congress
859 will face for the next century. It is interesting that in
860 response to my colleague and friend Mr. Dunn's concerns, his
861 question, Dr. Mahnken, you said that your first concern
862 about what Congress could do wrong is failing to regulate at
863 all and just letting the free market rule. Your second
864 concern is overregulation. So obviously we need to have a
865 balance between the two.

866 And to pick up where my friend and colleague, Mr.
867 LaHood, let off, I would say I am also fully in favor of
868 Federal guardrails. It is notable that Congress is now
869 waking up to the dangers of social media, especially for
870 kids, especially for young girls. I have got two myself,
871 and I am proud to be a small part of the effort to start the
872 conversation on regulating social media. Social media was
873 invented 20 years ago, so we are way behind the time. And
874 my concern is that if we eliminate all ability of States to
875 regulate, we won't benefit from the innovation that could
876 occur at the States and could inform what we might do in
877 Congress. Mr. Clark, I see you nodding your head. Do you
878 want to comment on that?

879 Mr. Clark. Thank you for the opportunity to comment.

880 As I said, we believe very powerful systems are going to get
881 built in single-digit years. It is very hard for me to
882 emphasize how short the timeline is to act here, and I think
883 that that means we need to be open to all options, so it
884 would be wonderful and ideal to have a Federal framework.
885 In the absence of that, we should retain optionality to do
886 something at the State level.

887 Mr. Moulton. Well, I hope that will inform our
888 colleagues' votes on the bill coming up at the end of the
889 week. Two years ago, I published an op-ed in the Boston
890 Globe discussing the serious danger of allowing our
891 adversaries to win the AI race, especially in warfare. I
892 warned that, "If America falls short in this new AI arms
893 race, someone else will set the moral guardrails for its
894 use, and once that happens, it will be very difficult to
895 pull back," that "The lack of agreed-upon guardrails and
896 accountability surrounding autonomous weaponry is precisely
897 why it could end up being the most dangerous weapon we have
898 ever seen." So I am glad to hear all three of you in
899 agreement that we do need to set norms and specifically
900 democratic norms for AI.

901 We care about things like collateral damage and civilian
902 casualties. Many of our adversaries do not, but the point,
903 I think, that is really significant here is that just having
904 domestic norms is not enough. As we have this debate

905 between State and Federal regulations, the point is that we
906 are much less concerned about our ability to follow these
907 norms. You are all doing that on your own. The concern is
908 China, and so we have to somehow get to an international
909 framework, a Geneva convention-like agreement, that has a
910 chance at least at limiting what our adversaries might do
911 with AI at the extremes. Dr. Mahnken, what do you believe
912 are the most important non-negotiable norms that we would
913 want to establish around such an agreement?

914 Mr. Mahnken. That is a wonderful question, Congressman,
915 and I guess I will temper my answer with the belief that we
916 are so far from that at this point. We are so far from that
917 because of the uncertainty surrounding the unfolding of AI.

918 Mr. Moulton. Okay. We were limited on time, so if you
919 don't have an answer _

920 Mr. Mahnken. I wish I did.

921 Mr. Moulton. _ let's just go to what should be our
922 first steps. How do we start that? Clearly, it is going to
923 be hard to regulate from behind, so I have to reemphasize
924 the theme here _

925 Mr. Mahnken. Yeah.

926 Mr. Moulton. _ that we have to win this race, but how
927 do we actually get to a point where we can have, as Mr.
928 Clark has also said and Mr. Beall as well, some sort of
929 norms that limit the extreme-edge cases where this can be so

930 dangerous?

931 Mr. Mahnken. I think the strongest approach is for the
932 U.S. to lead and to lead, and to lead our allies, other
933 like-minded countries towards a democratic approach.

934 Mr. Moulton. Mr. Beall, do you have any comments on
935 this?

936 Mr. Beall. Yes, sir. I think I might offer there are
937 three discreet areas where the United States must have
938 clarity on what it wants. The first area is AI's impacts to
939 strategic stability. So this means, as my friend Jack
940 mentioned, if we have a country full of geniuses in a data
941 center and they are inventing all manner of new ballistic
942 missile capabilities or missile defense capabilities, this
943 could alter the strategic situation around the world, and
944 this could become very urgent. And like any other issue
945 that is changing exponentially, we are either going to be
946 too early, or we are going to be too late. The second thing
947 we need to do is on lethal autonomy. The Department of
948 Defense back in 2012 published DOD Directive 3000.09. It
949 was the government's attempt to put some rules of the road
950 on how lethal autonomous systems are developed and then
951 deployed. I think in a world in which killer robots,
952 candidly, are being deployed around the world willy-nilly,
953 this is a world that that is a dystopian nightmare world.
954 That is the second area. And then the third area, as I

955 mentioned in my testimony, is in this area called artificial
956 superintelligence, so this is our theoretical technology
957 that could come about in the next several years. That could
958 mean that AIs are going to be smarter, as smart as we are
959 towards snails as they are going to be to us.

960 Mr. Moulton. Thank you. I am over time, and so I thank
961 the chairman, but, Mr. Clark, if you could take the answer
962 to this for the record, I would appreciate it. Thank you.
963 Thank you, Mr. Chairman.

964 [The information follows:]

965 Chairman Moolenaar. Thank you. Representative Johnson.

966 Mr. Johnson. Mr. Beall, you noted at the top that maybe
967 we become numb by the headlines about all of the dangers of
968 AI. I think that might be true, and yet, honestly, what we
969 have heard today, I suspect, has scared the hell out of many
970 of these committee members. Anybody who doesn't feel
971 urgency around this issue is not paying attention. Sir, you
972 noted that this is the most important national security
973 challenge of our time. You noted that if we lose this race,
974 it could trigger a global crisis. Okay. I get it. We have
975 got to win. It seems as though it will take tremendous
976 computing power to win. Those will come from data centers.
977 I guess my question would be, are there risks if our
978 computing power is located outside of the United States?

979 Mr. Beall. Yes, sir. That is a great question. I
980 think there are sort of two issues at stake. The first is
981 we currently have a significant energy shortfall in the
982 United States in a regulatory environment that is not
983 conducive to rapid upscaling that, and as a result, there
984 could be a temptation to move capability in places that are
985 more friendly to fast energy generation. And I think as you
986 look around the corner to AI training systems, they will be
987 trained in a distributed fashion, and this could sort of
988 serve American interests in the first place. The second
989 piece and the downside risk here is when you do that

990 overseas, you don't want to let foreign countries become the
991 AI superpowers, and we don't want our chips being diverted
992 in places that are not friendly in the United States. So on
993 balance, I recommend this as probably a good course of
994 action in the near term, but we should focus domestically on
995 making sure we are building our domestic capability as well.

996 Mr. Johnson. So the physical location of these data
997 centers does matter. You are saying if they are located
998 elsewhere, that will empower their ability to become the AI
999 experts.

1000 Mr. Johnson. Yes, sir, it could definitely do that, and
1001 it is sort of the devil is in the details. Who is
1002 controlling these data centers? Who is controlling the
1003 chips? If they are under American hyperscaler control, that
1004 is one thing. If they are under local national control,
1005 that is another, and the security package that goes along
1006 with that will need to be carefully scrutinized.

1007 Mr. Johnson. Yeah, thank you very much. Mr. Clark, I
1008 will reiterate. Mr. Beall mentioned that this is the most
1009 important national security challenge of our time. Mr.
1010 Mahnken noted that losing this competition, it becomes more
1011 likely if we slow our momentum. It seems to me that safety
1012 and speed are conflicting values. When you prioritize one,
1013 you get tradeoffs in the other. You noted that we have to
1014 get safety right, and I am curious how substantial is the

1015 risk that by doing that, we inhibit our ability to win this
1016 race?

1017 Mr. Clark. Thank you for this question. We all buy
1018 cars because we know that if they get dinged, we are not
1019 going to suffer in them because they have airbags and they
1020 have seat belts. You have grown the size of the car market
1021 by innovating on safety technology, and American firms
1022 compete on safety technology to sell to consumers. The same
1023 will be true of AI. So far, we do not see there being a
1024 tradeoff here. We see that making more reliable,
1025 trustworthy technology ultimately helps you grow the size of
1026 the market and grow the attractiveness of American platforms
1027 vis-a-vis China. So I would constructively sort of push
1028 back on this and put it to you that there is an amazing
1029 opportunity here to use safety as a way to grow the American
1030 existing dominance in the market.

1031 Mr. Johnson. I want to believe you are right, and
1032 obviously you are an expert and I am not, and by the way,
1033 clearly we need to take care of safety. We need to get that
1034 right, and I don't want to suggest it is a zero sum game,
1035 but we do have a scarcity of resources here. We should have
1036 some urgency about winning this. Is there a concern, Mr.
1037 Mahnken, that prioritizing safety to too great a degree
1038 could inhibit our speed?

1039 Mr. Mahnken. Absolutely. Absolutely, and that is why I

1040 think we need to lean on our culture, which, as I say, we
1041 have a high trust society. We have deep democratic values
1042 that inform us. If I have a greater worry, it is we are
1043 just not going to go fast enough because we are going to tie
1044 ourselves in knots worrying about all the things that could
1045 happen. Again, we are having this conversation. My
1046 suspicion is there is no parallel conversation going on in
1047 the PRC about all the risks. And if I could, just to your
1048 previous point about data centers, I just want to make a
1049 basic fundamental point that these data centers, not only
1050 does it matter where they are, but this is big, valuable
1051 infrastructure, and if I think about past revolutions in
1052 information, these are also going to be targets. We have to
1053 consider that these data centers are going to be targeted in
1054 various ways as well. Thank you.

1055 Mr. Johnson. Thank you very much, gentlemen. Mr.
1056 Chairman, I yield back.

1057 Chairman Moolenaar. Thank you. Representative Torres.

1058 Mr. Torres. Thank you. TSMC is the preeminent company
1059 in manufacturing leading-edge chips at scale, and ASML is
1060 the sole manufacturer of extreme ultraviolet lithography
1061 machines, which are critical to building advanced
1062 semiconductors. Mr. Clark, how close is China to
1063 replicating and rivaling those capabilities?

1064 Mr. Clark. I will be relatively brief in this. They

1065 are some ways behind of closing the gap on what you think of
1066 as the nanometer level they can reach where TSMC and ASML
1067 combined are in the lead, but they have made substantial
1068 investments here, but multiple years.

1069 Mr. Torres. Multiple years. It should be the highest
1070 strategic priority of the United States to pursue AI
1071 dominance with the fierce urgency of the Manhattan Project.
1072 In the 20th century, the U.S. and Nazi Germany were locked
1073 in a high-stakes race to develop the first atomic bomb. In
1074 the 21st century, the United States and China are competing
1075 in a new strategic arms race _ the race for artificial
1076 superintelligence _ and the first country to reach ASI will
1077 likely emerge as the superpower of the 21st century. The
1078 superpower will set the rules for the rest of the world.
1079 Mr. Clark, what do you make of the Manhattan Project
1080 framing? Is that the right way to think about the AI
1081 strategic competition with China, or is that a false
1082 analogy?

1083 Mr. Clark. There is an element of this, which is a dis-
1084 analogy because the frontier of AI was sort of borne by
1085 these private sector companies and is built today in the
1086 private sector, so we are not starting from the same places
1087 with the Manhattan projects. But where it did get ideas
1088 right, which we should carry through, is the prioritization
1089 of the core resources for it being in the United States. We

1090 need energy here and we need compute here because as this
1091 technology becomes more sensitive, we will want to develop
1092 the most powerful systems here under the full U.S. security
1093 umbrella.

1094 Mr. Torres. Mr. Clark, can we win the AI race without
1095 energy?

1096 Mr. Clark. Energy is essential, and without it, we lose
1097 this race.

1098 Mr. Torres. So the AI revolution requires an abundance
1099 of energy on a scale and at a pace that we have never seen
1100 before. China is emerging as the energy superpower of the
1101 world. When it comes to new energy capacity, China is
1102 adding the equivalent of a whole United States every 2
1103 years. In 2024, China built 400-plus gigawatts of new
1104 capacity compared to only 50-plus gigawatts of new capacity
1105 for the United States. When it comes to energy, China is
1106 outbuilding the United States by a ratio of 8 to 1, and yet
1107 at a time when the AI revolution has put unprecedented
1108 strain on the U.S. energy grid, the present reconciliation
1109 bill, to be blunt, would all but repeal the tax credits for
1110 clean energy. According to an analysis by Politico, the
1111 loss of tax credits would endanger the nearly 800 planned
1112 clean energy projects that would generate over 156,000
1113 megawatts of electricity, which is enough to power 27
1114 million homes. These are staggering numbers. Mr. Clark, do

1115 you think it is wise for the United States to artificially
1116 restrict the supply of energy available to American AI at a
1117 time when we are engaged in a high-stakes arms race with the
1118 Chinese Communist Party?

1119 Mr. Clark. We estimate that we need 50 gigawatts of
1120 power by 2027. By "we," I mean by AI industry. That
1121 suggests to me that you need to look at all options on the
1122 table and look at what it takes to get there, and I can't
1123 speak to the specifics of individual power sources. I can
1124 say that _

1125 Mr. Torres. Do you know what percentage of new capacity
1126 in America comes from clean energy?

1127 Mr. Clark. I do not.

1128 Mr. Torres. It is 90 percent, and solar is the most
1129 rapidly deployable, scalable energy source, and it just
1130 seems deeply self-destructive for the United States to
1131 restrict the number of electrons available to the AI
1132 revolution. I have a question about the export controls. I
1133 know you are supportive of it, Mr. Clark. Do you think the
1134 export controls were properly designed when put in place
1135 back in 2022 because I have heard concerns that even though
1136 the chips to which China had access had less computational
1137 power, it actually had more memory bandwidth than the best
1138 GPUs. So was that a fatal flaw in the original export
1139 controls?

1140 Mr. Clark. Getting export controls right here requires
1141 us to have a greater level of technical staff in the
1142 Department of Commerce to both design these controls and
1143 also monitor them once in place. We are dealing with the
1144 most advanced technology that people make on the planet, and
1145 trying to control that will require us to, I believe, scale
1146 up for resourcing for the people designing those regulations
1147 and then monitoring compliance with them.

1148 Mr. Torres. I see my time has expired.

1149 Chairman Moolenaar. Thank you. Representative Hinson.

1150 Mrs. Hinson. Thank you, Mr. Chairman, for holding this
1151 hearing and to our witnesses for appearing before us today
1152 to discuss a very critical issue. And the United States has
1153 obviously long led the world in cutting-edge AI research,
1154 driving the breakthroughs that really power not only
1155 national defense and advanced technologies here at home, but
1156 also help American farmers in places like Iowa to really
1157 increase their yields and allow small businesses to operate
1158 more efficiently, so we have seen some great advances there.
1159 They are transforming how we work, how we produce, and how
1160 we compete on the global stage, but we are obviously in this
1161 active race to stay ahead of China.

1162 The state-directed labs there are simply not competing.
1163 They are replicating our U.S. innovations day after day and
1164 at an alarming pace. That is not healthy competition. That

1165 is a deliberate effort by the CCP to steal and then
1166 weaponize our innovation against us, against U.S. industry
1167 to gain strategic advantage. If Beijing is able to close
1168 that capability gap with the United States, the
1169 consequences, as we know, for both our national and economic
1170 security would be severe. The Trump administration's repeal
1171 of the Biden-era AI diffusion rule signals, I think, a much
1172 more needed return to a more strategic protective posture,
1173 and then coupled with the ongoing efforts to craft a
1174 domestic-centered approach, this shift, I think, focuses
1175 also rightly on keeping our frontier AI leadership
1176 capabilities out of adversaries' hands and reinforcing U.S.
1177 leadership in this vital space for us.

1178 So, Mr. Mahnken, I want to start with you. The Trump
1179 administration has made it clear that advancing and
1180 accessing cutting-edge U.S. AI should come with conditions,
1181 namely that partners decouple with China's tech sector and
1182 invest in U.S. AI resilience. So as China works to continue
1183 to weaponize AI and commercialize it, how can the U.S. work
1184 with allies to deny Beijing that access to critical inputs
1185 without undermining allied innovation? So pushing back
1186 against that fear while still making sure we are innovating
1187 in this space?

1188 Mr. Mahnken. Yeah. Look, I think we need to provide a
1189 democratic alternative to the authoritarian approach that

1190 the Chinese not only are producing but are exporting, right?
1191 Their technology not only is of authoritarian origin, but
1192 goes to promote authoritarianism. We need to have an
1193 alternative and be able to provide that to our allies, to
1194 our friends, and with that goes, again, greater sovereignty
1195 for our partners.

1196 Mrs. Hinson. Well, when we look at this AI arms race
1197 and how important it is, obviously the subject of our
1198 hearing today, I think we can all agree that all of us in
1199 government and in the private sector are fully committed to
1200 the cause. At least in this room we are. So, Mr. Clark,
1201 for large companies like yours, obviously Silicon Valley,
1202 kind of the brain center for a lot of this development, and
1203 I know there are a wide range of opinions there as well.
1204 And we know that several members of your key team at
1205 Anthropic have held very influential roles in this space,
1206 both open philanthropy and, in the previous administration,
1207 with the Biden administration as well. Can you speak to how
1208 you manage, obviously we have got a lot of viewpoints, but
1209 how you manage potential areas of conflict of interest in
1210 advancing this tech and ensuring that everybody is really on
1211 that same page with helping to shape this national AI policy
1212 that we are talking about, the competition on the global
1213 stage for this technology?

1214 Mr. Clark. Thank you for the question. We have a

1215 simple goal _ win the race and make technology that can be
1216 relied on _ and all of the work that we do at our company
1217 starts from looking at that and then just trying to work out
1218 the best way to get there. And we work with people from a
1219 variety of backgrounds and skills, and our goal is to just
1220 have the best, most substantive answer that we can bring to
1221 hearings like this.

1222 Mrs. Hinson. And then, Mr. Beall, my last question will
1223 be for you. When we look at China's DeepSeek model, they
1224 demonstrated quickly how PRC labs can really replicate our
1225 U.S. breakthroughs, right? They are copying our technology.
1226 I guess mimicry is the best form of flattery, right, but
1227 what are the biggest espionage or model leakage threats that
1228 are facing our domestic partners today?

1229 Mr. Beall. Thank you, Representative Hinson, and first
1230 of all, I would like to thank you for using the word
1231 "weaponize" instead of "misuse." I think it is very clear
1232 that we are strong in our language, that people know exactly
1233 what we are talking about, and we understand the stakes. I
1234 think DeepSeek absolutely is our Sputnik moment, and we have
1235 to remember that export controls, there is always going to
1236 be a lagging effect. So we implement ship controls in 2022,
1237 but it took us a long time to actually enforce them, and as
1238 a result, the ships sort of still flowed to China. And so
1239 when we think about the urgency of action today, we have to

1240 assume that looking right around the beat, it is going to
1241 take some time to deny these capabilities.

1242 So there is sort of two core things that we need to do
1243 urgently. The first, there is a piece of legislation
1244 introduced last Congress called the Remote Access Security
1245 Act. That blocks China from accessing restricted AI chips
1246 but just via cloud services, and so this is a loophole that
1247 is being taken advantage of now. The second thing, and this
1248 is going to be the really hard one, is grappling with what
1249 the folks in the industry call the open source issue, and
1250 that is, at what level of capability is it going to be not
1251 okay to publish weaponizable AI systems out in the open?
1252 And when a company publishes these things out in the open
1253 and we have chip controls in place, well, the Chinese just
1254 download those model weights and then use their existing
1255 chips to scale up that capability, so these things are
1256 working at cross purposes. So if you had to do two things
1257 urgently, I would recommend considering those two things.
1258 Thank you.

1259 Mrs. Hinson. Responsibility in this space matters.
1260 Thank you. I yield back, Mr. Chair.

1261 Chairman Moolenaar. Thank you. Representative Brown.

1262 Ms. Brown. Thank you, Mr. Chairman. As we continue to
1263 assess the scope and stakes of our strategic competition
1264 with the Chinese Communist Party, I want to focus on a

1265 critical aspect of American competitiveness that often gets
1266 overlooked _ our workforce _ because winning the AI race
1267 isn't just about algorithms and semiconductors. It is also
1268 about ensuring American workers and communities aren't left
1269 behind as the economy changes rapidly.

1270 For generations, places like Ohio's 11th and communities
1271 across Northeast Ohio powered our economy through steel,
1272 manufacturing, healthcare, and innovation, but they have
1273 also experienced economic disruptions caused by automation,
1274 offshoring, and underinvestment in workforce training. We
1275 cannot afford to repeat those mistakes with AI. AI is
1276 already being rapidly deployed across industries, and while
1277 that holds enormous promise, it also raises some serious
1278 questions: who benefits, who gets left behind, and what are
1279 we doing to make sure the American workforce is prepared?

1280 So, Mr. Clark, Anthropic's Economic Impact Index
1281 suggests that AI is already being significantly adopted to
1282 automate and augment workflows across a wide range of
1283 industries. Can you explain what specific economic impacts
1284 you are seeing from AI adoption and which sectors and
1285 communities are most at risk of disruption?

1286 Mr. Clark. Thank you. We look at the use of AI on our
1287 platform and compare it to the O*NET job classification,
1288 which helps us look at the distribution of jobs on our
1289 platform relative to the U.S. economy. What we see is AI

1290 technology today is being used in a major way for jobs
1291 relating to programming and also relating to what you might
1292 think of as bureaucracy or paperwork that takes place in
1293 large-scale businesses. Today, this technology makes people
1294 much more productive. It predominantly augments them, takes
1295 a person and lets them do more, but in the future we think
1296 that there will be other impacts as well as this technology
1297 matures. We believe that there need to be greater degrees
1298 of data being shared by the companies about the economic
1299 impacts of their systems, and from this, we take inspiration
1300 from the U.S. census where the annual survey of
1301 manufacturers now asks questions about the number of
1302 industrial robot arms, which are bought by manufacturers
1303 across America each year. I think we can do equivalent
1304 things here to find ways to get better information about AI
1305 and more granular data, and from that data, we will be able
1306 to see where it is impacting the economy and actions we can
1307 take.

1308 Ms. Brown. Thank you, and what partnerships between
1309 industry, government, and educational institutions do you
1310 think are most critical to ensuring our workforce is not
1311 only resilient but positioned to lead, and what examples or
1312 models are showing the most promise in helping workers
1313 transition into AI-aligned roles, particularly in
1314 underserved or industrial communities like the one I

1315 represent in Ohio?

1316 Mr. Clark. The most success we have seen so far has
1317 come from experimentation across industry and people that
1318 want to learn AI skills. The Department of Energy has done
1319 a variety of AI Jam Days, which Anthropic and other frontier
1320 developers have participated in, and I think that is a
1321 scalable model: find communities that want to learn about
1322 AI, give them access to the technology, and have industry
1323 come there and embed deeply with them to give them that
1324 familiarity. Once people are familiar with this, they can
1325 learn to use the tool, and they will find many ways that it
1326 can change how they work.

1327 Ms. Brown. Okay. Thank you, and then lastly, Mr.
1328 Clark, as AI transforms the job market, what specific steps
1329 should Congress take to prepare the next generation of
1330 American workers for an AI-driven economy? Specifically,
1331 how do we ensure that American workers benefit from this
1332 revolution in productivity?

1333 Mr. Clark. It all starts with experimentation and being
1334 given the space to familiarize yourself with a technology,
1335 experiment with it, and find ways to apply it. As part of
1336 this, we should closely look at which industries are using
1337 the technology most, perhaps using technologies like the
1338 Economic Index, and where industries that aren't using it,
1339 whether there are impediments that stand in the way of using

1340 it because it will change and improve how jobs work there,
1341 and there may be avenues to learn of ways that we can change
1342 regulations to make it easier for people to use this
1343 technology and benefit from it.

1344 Ms. Brown. Thank you, and I will close with this. Just
1345 as we are using export controls to slow China's AI
1346 ambitions, we should be equally aggressive about
1347 accelerating our investment in the American workforce, which
1348 is our greatest competitive advantage. That means scaling
1349 apprenticeship programs, embedding AI skills in community
1350 colleges and HBCUs, and modernizing career and technical
1351 education to prepare workers, not just to use AI, but to
1352 help shape it. And with that, Mr. Chairman, I yield back.

1353 Chairman Moolenaar. Thank you. Representative Nunn.

1354 Mr. Nunn. Well, thank you, Mr. Chairman, for having us
1355 here today and calling, I think, one of the most important
1356 hearings that we have had on the topic of artificial
1357 intelligence, and I would agree that AI is the new Cold War
1358 between the U.S. and China. As this distinguished panel has
1359 highlighted, it is, in fact, the Manhattan Project of our
1360 generation, and we have the opportunity to stand forward and
1361 do this not just as a whole-of-government approach, but as a
1362 whole-of-Nation approach to be able to stand up to China.

1363 I want to give a particular salute to our Secretary of
1364 the Army who has brought forward four members of our top AI

1365 teams, commissioned them as lieutenant colonels, and also
1366 highlighted that this is a public-private partnership, not
1367 something that the American Government nor the American
1368 taxpayer can do alone. In fact, with President Trump's
1369 Stargate, we are putting \$500 billion to the advancement of
1370 AI, and that is truly something that I think should be
1371 saluted. We should also recognize, though, the Chinese and
1372 the CCP specifically, Chairman, as you have highlighted, are
1373 not standing still in this space. The Chinese just this
1374 year have tested something called AI Commander. It is
1375 capable of generating 10,000 battle plans in under a minute.
1376 If you want to have an invasion of Taiwan, this is the type
1377 of tool that you want.

1378 Additionally, perhaps one of the more concerning items
1379 is a new AI group out of Beijing called Zhipu. Zhipu is an
1380 AI anomaly that is now facing off against the likes of
1381 OpenAI, and their entire intent is to lock in Chinese
1382 systems and standards into emerging markets before the West,
1383 so this is clearly a large-scale attempt by the Chinese to
1384 box the United States out. Now, as a counterintelligence
1385 officer who was on the frontline in fighting against
1386 Huawei's takeover of the United States through something
1387 called Huawei America, very clever by the Chinese, we were
1388 able to stop that from taking root here in the United
1389 States. Our concern here is that we are now facing this

1390 again, that the Chinese are using AI and their ability to
1391 get into first-shooter markets ahead of the United States to
1392 establish a de facto leadership role in this space. So,
1393 gentlemen, as we all know, the race is on.

1394 I want to thank you for not only your time here, but
1395 your leadership in being able to go after that. Tom, you
1396 are the president and chief executive for the Center for
1397 Strategic and Budgetary Assessment. Given the examples that
1398 we just highlighted here, one can only assume that the CCP
1399 is gearing up for a larger AI-enabled operation. I would
1400 like to ask you, is the U.S. currently prepared for an AI-
1401 accelerated cyberattack, a zero-day attack, or a larger
1402 threat that faces us today?

1403 Mr. Mahnken. Well, thank you, Congressman. You
1404 justifiably highlight some of the risks that we face, and I
1405 want to return to the uncertainty that surrounds this
1406 situation. There is a huge bet here, right? The Communist
1407 Party is betting and the PLA is betting that AI will make
1408 them better, right, that it will, with scientific clarity,
1409 lead to, as you put it, the optimum answer for how to crack
1410 Taiwan. I think we as a society are betting differently,
1411 right? We are betting that AI tools can help human beings
1412 make more informed, better-informed judgments to recognize
1413 signals from the noise. My primary concern is not that the
1414 Chinese authoritarians are right. My primary concern is

1415 that they may delude themselves into thinking that AI will
1416 allow them to do things that they won't, in fact, be able to
1417 do. It might be a great way for them to not win a war but
1418 get into a war.

1419 Mr. Nunn. Mr. Mahnken, I would agree with you on that.
1420 I would say the same challenge is true for the United
1421 States, that we also need to be clear-eyed about what our
1422 expectations are for AI. In fact, it is one of the reasons
1423 that I have introduced H.R. 2152, the AI PLAN. It is an act
1424 to make sure that we are implementing a strategy here within
1425 the U.S. Government that we are using AI in a tandem way,
1426 not that every department or agency, or as highlighted,
1427 earlier, every State or every local entity is running on
1428 their own. This has to be a whole-Nation approach.

1429 Mr. Clark, you are the co-founder and head of policy at
1430 Anthropic, a very impressive private entity who has been
1431 able to come to this. I would like to ask you in our
1432 remaining time how the government and private sector can
1433 work cooperatively, not only to advance AI here, but to also
1434 disrupt, deter, and compete with what the Chinese have going
1435 on around the rest of the world.

1436 Mr. Clark. Thank you. Two quick things. One, to
1437 advance AI here, we need the U.S. Government to lean in on
1438 AI deployment and to uplevel the U.S. Government of both
1439 civil and the IC side. That is an amazing opportunity, and

1440 we are here to partner for that. On the international
1441 piece, the development with the U.S. Government of the
1442 standards by which we assess for safety and reliability of
1443 this technology, in partnership with industry will help
1444 industry go out and sell globally and sell people on
1445 American standards that let them know they can trust our
1446 technology, and they will choose to buy American off of that
1447 trust.

1448 Mr. Nunn. Let's make sure we can make it affordable,
1449 deployable, and effective for them as well. Thank you, Mr.
1450 Chair. I yield back the remainder of my time.

1451 Chairman Moolenaar. Thank you. Representative Tokuda.

1452 Ms. Tokuda. Thank you, Mr. Chair. I want to build on
1453 what some of my colleagues have touched upon, in particular,
1454 in the energy field. We know that China is investing
1455 significant resources and assets to achieve its 2030 AI
1456 world leader goal, and meanwhile here at home, we say we
1457 want to win the AI race, but the current administration
1458 proposed gutting the very institutions that both give us an
1459 edge and protect us from intrusion. NIST was facing up to a
1460 20-percent workforce cut in over \$325 million in funding
1461 reductions, and while reconciliation bills have softened the
1462 cut blow, CISA was facing nearly half a billion dollars in
1463 cuts and the elimination of a third of its workforce, 1,000
1464 positions. These are in critical areas like critical

1465 infrastructure, communications, data privacy, cybersecurity
1466 support at the State and local levels, all of these things.
1467 Perhaps, Mr. Clark, we can ask you that question since your
1468 company works closely with NIST and CISA. Are you concerned
1469 about our ability to both compete and protect? Briefly,
1470 should we be cutting or, as I would argue, actually
1471 increasing funding towards these critical areas?

1472 Mr. Clark. There are amazing complements to the work of
1473 the private sector, and that includes work on standards and
1474 measurement that can be done by NIST. Ultimately, it will
1475 also require us to help use our technology to protect
1476 critical infrastructure and harden our defensive posture
1477 here that will be used by other agencies as well. I would
1478 encourage us to look closely at what parts of government can
1479 complement and accelerate the work of private industry to
1480 help prepare us for the very powerful AI systems that are
1481 developed in the coming years.

1482 Ms. Tokuda. Okay. So I would take that as definitely
1483 we should not be looking at massive cuts. We should
1484 actually be looking at supports that are complementary to
1485 the private sector. On that note, Mr. Clark, Anthropic CEO,
1486 Dario Amodei, has publicly fielded the idea of a token tax
1487 where a small percentage of language model revenues could go
1488 to the government to help offset the economic disruptions AI
1489 could cause, like the potential, as was brought up by Ms.

1490 Brown, loss of 10 to 20 percent of white-collar jobs. To
1491 me, it reflects a bigger principle that AI companies have a
1492 responsibility to help address the societal costs their
1493 technologies could bring. And in your testimony, to meet
1494 the moment of the AI race we are in, you call for major
1495 investments in public infrastructure, energy, as we have
1496 heard discussed today, power grids. These are critical
1497 systems that AI companies are rapidly placing new demands
1498 on, critical demands on, and in many ways, we are outpacing
1499 the need at this time. So what is your view on responsible
1500 public-private burden sharing? Should companies like
1501 Anthropic be expected to directly invest in the
1502 infrastructure that they rely on so that we can actually
1503 increase our capacity, as well reinforcing the environmental
1504 and public systems that are being stretched to support the
1505 growth of AI?

1506 Mr. Clark. Today, whenever we develop infrastructure,
1507 we work closely with our partners and the communities where
1508 that infrastructure is built to understand exactly how we
1509 can lean in and do more, and we are constantly looking for
1510 ways to be better. At the same time, if we are right, in
1511 several years and truly powerful systems get built but have
1512 the property of a country of geniuses and a data center, it
1513 would behoove us to take a look with fresh eyes at this
1514 technology and what societal changes it may be causing. And

1515 I would be eager to follow up with people here in that
1516 conversation, which we will need to be ready to have in 3 or
1517 4 years or so.

1518 Ms. Tokuda. Okay. Definitely I think we know here in
1519 Congress the demand for resources will definitely be great
1520 as the needs increase as we go further in this area. I want
1521 to touch upon something that is a bit existential, if you
1522 will. Mr. Beall, your testimony makes clear that artificial
1523 superintelligence _ ASI _ is one of the largest existential
1524 threats that we face right now, and many experts in the
1525 field also recognize that AGI _ artificial general
1526 intelligence _ is a precursor to that risk. And even as we
1527 race towards AGI, we are still struggling, quite frankly, to
1528 manage responsibly and reliably today's systems: models
1529 that hallucinate exhibit bias and behave unpredictably. And
1530 these are likely the simplest of systems that we will ever
1531 have to deal with in our lifetimes. And as much as the AI
1532 race is about speed and efficiency, it is a race for control
1533 and governance because at the end of the day, true power
1534 lives in the ability to wield AI safely and effectively with
1535 strong oversight and accountability to ensure it serves its
1536 intended purpose.

1537 This might be a question you have to insert in the
1538 record as I will run out of time, but should we also be
1539 concerned that authoritarian states like China or Russia may

1540 lose control over their own advanced systems? Could that
1541 kind of instability in their own AI systems pose global
1542 consequences regardless of whether we get our own houses
1543 into order? And is it possible that a loss of control by
1544 any nation-state, including our own, could give rise to an
1545 independent AGI or ASI actor that, globally, we will need to
1546 contend with? And so I know Mr. Chairman out of time, and
1547 so I would request the answer from the panelists for the
1548 record. Thank you. I yield back.

1549 Chairman Moolenaar. Thank you very much and approve
1550 that request.

1551 [The information follows:]

1552 Chairman Moolenaar. Representative Moran.

1553 Mr. Moran. Thank you, Mr. Chairman. Thank you to the
1554 panel for being here today. I have got lots to ask. I will
1555 try to move quickly through it, but what you are doing here
1556 today is super important to help inform us as members of
1557 Congress, but also the public at large about the real threat
1558 that the CCP poses if we do not win this AI race. I am
1559 convinced that one of the things that is so great about
1560 America is that our innovators are better than anybody, and
1561 if we will just get out of the way and let them innovate, I
1562 think we can certainly win this. But oftentimes we get in
1563 our own way, and then we don't realize what we need to be
1564 doing outside of our borders to push back against those that
1565 would do harm to the United States.

1566 As I learn more and as I listened to you guys today, Mr.
1567 Clark, you said we need to win the race. That was one of
1568 the things you said was absolutely most important. I agree
1569 with you, and so I want to ask you, Mr. Beall said a couple
1570 things specifically we could do to win the race is to pass
1571 the Remote Access Security Act, and then also grapple with
1572 this open source problem of letting the CCP get information
1573 that it shouldn't through those open-source documents, but,
1574 Mr. Clark, let's go back to winning the race. What is the
1575 number one thing that we are not doing that we should be
1576 doing to win this race?

1577 Mr. Clark. Just making me choose one means I have to
1578 pause for a moment. I think the fundamental thing is power,
1579 and then if I was allowed to add two more, I would say power
1580 and then compute, ensuring you have enough compute
1581 resources. And then the third thing would be ensuring we
1582 have the necessary infrastructure in the U.S. Government to
1583 help us have confidence about developing the standards for
1584 this technology and the means by which we assure its safety
1585 and security.

1586 Mr. Moran. Yeah, I agree with you about the power and
1587 the grid itself. I just had a meeting this morning,
1588 actually, with a number of energy companies in diverse ways
1589 of providing energy. So without respect to actually how we
1590 provide the energy, the necessity to get more load on the
1591 grid is an absolute. Otherwise, we can't have the computing
1592 power that we need to win the AI race through these
1593 facilities we need to build. I will let you guys all
1594 answer. Do you have a specific suggestion as to how we
1595 should go about doing that? I know there is some partisan
1596 differences there, but where can we find consensus on how to
1597 drive forward with getting more load on the grid?

1598 Mr. Clark. We would be happy to follow up for a more
1599 detailed private conversation, but our number one idea is
1600 just work backwards from the goal of having 50 gigawatts of
1601 net new capacity for use by Frontier AI in 2027 and figure

1602 out how well postured the U.S. is for that, identify any
1603 blockers that exist and find a path through.

1604 Mr. Moran. Dr. Mahnken, let me come back to you with
1605 that first question. What is it that we are not doing that
1606 you would say we absolutely must do?

1607 Mr. Mahnken. Well, I certainly think that the private
1608 sector is moving forward. Mr. Clark talked about what can
1609 be done there. I think government has an important role to
1610 try to slow down the Chinese. I think being more mindful of
1611 that, and I think, again, there are some measures that have
1612 already been passed, others that are under consideration
1613 that can help do that, being mindful of what the Chinese are
1614 doing and slow them down.

1615 Mr. Moran. Yeah. One of the things that I am learning
1616 more about is how AI works behind the scenes. As we are
1617 going through this process, the development of our current
1618 AI model certainly is different than when software engineers
1619 developed software a long time ago. Instead of a programmer
1620 writing each rule, a system will follow, the system itself
1621 effectively writes the rules based on the question it needs
1622 to answer or is trying to answer. It is my understanding
1623 that AI systems will soon have the capability to conduct its
1624 own research and development, and effectively write its own
1625 rules and programming. AI will be able to predict then the
1626 issues it will need to solve and do it in ways sometimes

1627 that we can't control. Mr. Clark, how do you think the U.S.
1628 can best harness automated AI research and development while
1629 ensuring the Chinese AI systems do not generate the same
1630 capabilities? And I will come to you, Mr. Beall, as well
1631 for that same question.

1632 Mr. Clark. This is a fundamental opportunity and
1633 challenge. We need to urgently resource our intelligence
1634 community to understand how advanced Chinese AI systems are
1635 and whether they are capable of AI R&D. At the same time,
1636 we need to work closely with industry in the U.S. to
1637 understand AI R&D and its potential risks. Just to
1638 illustrate, you wouldn't want an AI system that very
1639 occasionally tries to blackmail you to design its own
1640 successor, so you need to work on the safety issues of AI
1641 R&D, or else, you will lose the race.

1642 Mr. Moran. And, Mr. Beall, as you answer this question
1643 _ I am running out of time _ I also want to know where is
1644 the red line. You guys have talked about that a little bit
1645 today, but I want to get a definite understanding of where
1646 is the red line where we cannot allow the Chinese to
1647 crossover?

1648 Mr. Beall. This is an excellent question, sir. I think
1649 the first thing I would say is that AI systems are not
1650 really built. They are grown. There is no science here.
1651 It is alchemy, so there is lots of fuzziness about how these

1652 systems work. We can't really break them open and reason
1653 about all these details. You touched on a very critical
1654 point, though. This is the automated R&D part, so once you
1655 have an AGI-level system that could take control of its own
1656 destiny and build itself and build its successors, to me.
1657 that is the very clear red line in which the danger starts.
1658 And that is where we have to get the government involved in
1659 testing and evaluation and get the upskilling of the U.S.
1660 Government so they can understand what is happening and make
1661 good recommendations to you. Thank you.

1662 Mr. Moran. I absolutely agree, and I think that that is
1663 a critical red line that hearkens back to the days of when
1664 we established ourselves as a superpower. In a number of
1665 different ways, I do think there is a resetting. We have to
1666 win this race, as was stated earlier. Thank you, gentlemen.
1667 I yield back.

1668 Chairman Moolenaar. Thank you. Representative Khanna.

1669 Mr. Khanna. Thank you, Mr. Chairman. Mr. Clark, I
1670 appreciate Anthropic's thoughtful approach to AI safety and
1671 jobs. You mentioned the Standards and Innovation Institute
1672 under NIST. As you know, it is currently voluntary. I
1673 wonder whether you think that, for certain high-risk AI
1674 applications, there should be some minimum threshold of
1675 mandatory third-party verification, even if that third party
1676 verification is just verifying the company's own standards

1677 or some threshold that we need to move towards.

1678 Mr. Clark. This question illustrates the challenge we
1679 have about weighing safety versus moving ahead as quickly as
1680 possible. We need to first figure out what we want to hold
1681 to that standard of testing. Today the voluntary agreements
1682 rest on CBRN testing and some forms of cyberattack testing.
1683 Once we have standards that we are confident of, I think you
1684 can take a look at the question of whether voluntary is
1685 sufficient or you need something else, but my sense is it is
1686 too early, and we first need to design those tests and
1687 really agree on those before figuring out what the next step
1688 would be.

1689 Mr. Khanna. And who would design those tests? Is it
1690 the AI Institute, or is it the private sector? Who comes up
1691 with what those tests should be?

1692 Mr. Clark. Today these tests are done highly
1693 collaboratively between U.S. private sector, the CAISI,
1694 which you mentioned, and parts of the U.S. Government,
1695 including those in the intelligence and defense community.
1696 I think bringing those people together so that we have the
1697 Nation's best experts on this and standards and tests that
1698 we all agree on is the first step that we can take to get us
1699 to everything else.

1700 Mr. Khanna. And by when do you think that needs to be
1701 done?

1702 Mr. Clark. It would be ideal to have this within a
1703 year. The timelines that I have spoken about in this
1704 hearing are powerful AI arrives at the end of 2026 or early
1705 2027. Before then, we would ideally have standard tests for
1706 the national security properties that we deeply care about.

1707 Mr. Khanna. One of the things I am most concerned about
1708 is the jobs situation. Now, obviously AI is going to create
1709 a lot of new jobs, but you look at college unemployment
1710 today. Between the ages of 21 and 29, for those who have a
1711 college degree, it is 15 percent. It is not partisan. It
1712 was at 15 percent when Biden was President, it is 15 percent
1713 now, and there are projections that that will increase as
1714 entry-level jobs, in particular, are affected.

1715 I have studied Darren Acemoglu's work at MIT, who says
1716 that we need to revamp the Tax Code so that we are
1717 incentivizing hiring people instead of robots. Some other
1718 people have said, look, we need something like a future
1719 workforce administration like Roosevelt had, but for young
1720 people or people to get entry-level positions in doing work
1721 on making government services better, in healthcare, in
1722 infrastructure. What are your recommendations on how we
1723 should be thinking about this jobs issue?

1724 Mr. Clark. Our specific recommendation is to start with
1725 data and to ask for more data from the AI companies,
1726 including Anthropic, about how we see the distribution of

1727 jobs being used by our AI systems today. With that data, we
1728 can have a conversation about where it is augmenting people
1729 and making them more productive, and where are parts of the
1730 economy where AI has almost no relevance today, but there is
1731 huge societal benefit in those jobs, and we can think about
1732 how to better support those.

1733 Mr. Khanna. Any other ideas? Data is fine, but
1734 anything else, or do you think that that is where we start?

1735 Mr. Clark. I think that we have to start with data, and
1736 that will show us what we should do after that.

1737 Mr. Khanna. Right. Anyone else on the panel have any
1738 ideas?

1739 Mr. Beall. Yeah, I will take a stab here, sir. I have
1740 a 16-year-old son, and we talk a lot about what do you study
1741 in college these days, and if you look at the stated goals
1742 of many of these companies, they want to have AI replace all
1743 humans at all jobs. It is what they say publicly. Bill
1744 Gates said this publicly. So I worry about a future in
1745 which human beings are not just unemployed, but they are
1746 unemployable, and this breaks the notion of the free market
1747 in very important ways. And I think we are going to have to
1748 have more of these conversations, and it is going to feel
1749 too early until it is too late. And when I hear folks in
1750 industry claim things about universal basic income and this
1751 sort of digital utopia, I study history, and I am worried

1752 that that sort of leads to one place, and that place is the
1753 gulag.

1754 Mr. Khanna. Appreciate it. Thank you.

1755 Chairman Moolenaar. Thank you very much. Well, I want
1756 to thank all of our witnesses for your testimony today and
1757 your insights.

1758 Questions for the record are due 1 week from today.

1759 [The information follows:]

1760 Chairman Moolenaar. And without objection, the
1761 committee hearing is adjourned.

1762 [Whereupon, at 10:51 a.m., the select committee was
1763 adjourned.]