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1	Defense Innovation Board Public Meeting
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4	Moderated by Marina Theodotou
5	Tuesday, March 5, 2024
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14	Reported by: Timothy Guevara
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1	A P P E A R A N C E S
2	List of Attendees:
3	Michael Bloomberg, Board Member
4	Marina Theodotou, Executive Director
5	Evanna Hu, Guest Speaker
6	Jen Sovada
7	Michael Madrid, Guest Speaker
8	Ian Eishen, Guest Speaker
9	Meagan Metzger, Guest Speaker
10	Jesse Levin, Guest Speaker
11	Ryan Swann, Board Member
12	Will Roper, Board Member
13	Admiral Michael Mullen, Board Member
14	Charles Phillips, Board Member
15	Mac Thornberry, Board Member
16	Sue Gordon, Board Member
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1	PROCEEDINGS
2	DR. THEODOTOU: Welcome, everyone, and
3	thank you for joining us for today's Defense
4	Innovation Board public meeting. My name is
5	Dr. Marina Theodotou and I'm the executive director
6	and designated federal officer for the Defense
7	Innovation Board.
8	Today's meeting is being live streamed
9	and recorded to allow members of the public to attend
10	the meeting virtually now or view it later. Thank you
11	to the Defense Media Agency for providing their expert
12	support to support this event and to the Defense
13	Innovation Board staff team and everybody else
14	involved making this event happen today.
15	The board would now convene in its
16	public session. Please allow me to share a few
17	procedural comments. The board is discretionary
18	independent advisory board operating under the
19	advisory the Federal Advisory Committee Act and the
20	Government Sunshine Act. Today's meeting was
21	announced in the Federal Register notice posted on
22	February 21, 2024. There have been no significant
23	changes to the meeting's agenda as posted in the
24	Federal Register's notice.
25	The public was invited to submit

1	written comments for the board, and we received
2	several written comments in advance of today's
3	meeting. Those have been collected and culled and
4	they have been posted on the Defense Innovation Board
5	website. As a reminder, these are comments to the
6	board and not a question-and-answer session.
7	And now, I would like to turn it over
8	to the Defense Innovation Board Chair, Mr. Mike
9	Bloomberg. Mike, over to you.
10	MR. BLOOMBERG: Well, thanks, Marina,
11	and thanks to everyone tuning in and watching online.
12	In case anyone in the audience isn't familiar with the
13	board's mission, our job is to provide independent
14	recommendations to the Secretary of Defense and other
15	senior leaders across the department. It's a job
16	we're all honored to do, and by doing it well, we can
17	help empower even more of our men and women in uniform
18	as their jobs become even more dangerous in the face
19	of escalating challenges around the world.
20	Now, this public meeting will proceed a
21	little differently from our previous meeting at the
22	Pentagon in January. This time, we're inviting the
23	public to hear directly from some of the experts who
24	will help inform the board's two current studies,
25	which Secretary Lloyd Austin and Undersecretary Heidi

Shyu have asked us to undertake. 1 To help set the table, let me summarize 2 the two studies guickly. The first focuses on how the 3 United States is innovating in partnership with allied 4 nations. Board member Charles Phillips is 5 coordinating this study. We'll identify not just the 6 7 strengths and technology strategies we have in common with our allies; we will also look at some of the 8 9 barriers that exist across multilateral agreements and 10 how we might work to remove those barriers and improve 11 how we collaborate. 12 The second study focuses on how we 13 might make the department's adoption of new technology 14 both faster and less painful. Retired Admiral Mike 15 Mullen, who knows a thing or two about navigating the halls of the Pentagon, is coordinating this study. 16 17 There's no innovation without taking risks, and right 18 now, it's clear that we need to incentivize more 19 individuals and teams across the department to take more risks. 20 21 So we'll collect insights from 22 department research labs, contracting officers, 23 service members from each branch, and external partners across industry too. That way, we can better 24 25 understand the different timelines and incentives of

each of the parties involved. Then, we can better 1 2 align those timelines and incentives and speed up the adoption of promising new tech. Nothing to it; right? 3 But seriously, I think it's fair to say 4 that we have plenty of work to do. We'll provide a 5 6 detailed update on the studies at the public meeting 7 next month, but first today, we're glad to welcome 8 several members of the nonprofit Defense Entrepreneurs 9 Forum and to hear their firsthand perspectives on the challenges we're tackling. To ensure we hear from 10 11 everyone in the 45 minutes that we have asked, I've 12 asked Marina to moderate a Q&A with the group. Board 13 members should feel free to chime in and question --14 with their questions and comments throughout. 15 Marina, over to you. 16 DR. THEODOTOU: Thank you, Mike. We're 17 delighted today to welcome the Defense Entrepreneurs 18 Forum members and hear from them, as Mike mentioned, 19 and from your insights and expertise. The Defense 20 Entrepreneurs Forum connects, inspires, and empowers 21 innovators across the national security ecosystem and 22 I'm personally very fond of the Defense Entrepreneurs 23 Forum because, actually, I was involved in the early stages -- probably five or six years ago -- and 24 25 delighted to welcome today, Jesse Levin, Meagen

1	Metzger, Michael Madrid, Evanna Hu, and Ian Eishen.
2	And I'd be remiss if I didn't mention
3	that almost everyone has been a TEDxDAU speaker here.
4	So if you're not familiar with TEDxDAU, look it up and
5	try to attend. So let's zero in in today's
6	conversation. Because we do have only 30 minutes, I'd
7	like for us to split the time in 15 minutes for each
8	of the studies.
9	So we're going to start with optimizing
10	how we innovate with allies and partners and I'm going
11	to ask Evanna to lead the first to kick us off with
12	answering the first question. And so, as a reminder,
13	the answers need to be about three minutes. So no
14	matter how many people respond, let's try to keep it
15	around three minutes and then we'll have about six
16	minutes total for members to ask questions.
17	So Evanna, how do we optimize the way
18	we innovate with our allies and partners? It's a very
19	broad question. Over to you.
20	MS. HU: Thank you so much for having
21	me, and I will do my little spiel in about a minute
22	and a half. And so I would like to actually set the
23	scene by talking a little bit more about why we need
24	to work with our allies; right? So for DEF we see as
25	the best way to strengthen our mutual defense posture

and to prevent further democracy backsliding against 1 2 authoritarianism. Especially against the backdrop of 3 great power competition, partnerships are seen as a lynchpin in the U.S. department defense's strategy 4 deterrence as outlined in the 2022 national security 5 6 strategy, yet little capacity and few initiatives 7 exist in terms of fostering cross-national comradery 8 via cultural intelligence and atmospherics. 9 These socioeconomic human factors have taken a backseat. To remain relevant and competitive, 10 11 our younger Junior Officers and Enlisted Corps must 12 garner in depth cultural awareness and empathy for the 13 nuanced operational and social realities inherent to 14 these likely theaters of operation. Whole of society 15 informal working groups are incredibly well resourced, supporting kinetic operations and are vastly 16 17 disrupting the acquisition supply -- and tech 18 development and fielding cycles we would normally associate with DOD. 19 Very few cultural exchanges intended to 20 21 foster true rapport and working relationships with

22 ally partner forces exist for the Junior Officer Corps 23 and enlisted DOD personnel. DEF aims to fulfill that 24 gap through informal exchanges and convenings with our 25 international partners, specifically those in the

Asian theater, including Singapore, Taiwan, and the
Philippines. With that, I want to turn it over to
Jesse to discuss the solution.

MR. LEVIN: Thank you, Evanna. And 4 thank you to the DIB for having us back. As Evanna 5 mentioned, innovation -- we almost have -- it's almost 6 7 been indoctrinated in the western DOD now. We have a number of programs of record. The DIB is an 8 9 incredible example of how we've evolved to ensure and 10 expedite technological advances in the private sector 11 to get them in the hands of the war fighter very 12 quickly.

13 However, what's happening around the 14 world and in various AOs are these proxy environments 15 that the game is very different, how things are transpiring on the ground. And as Evanna mentioned, 16 17 there aren't a lot of opportunities for our junior 18 officers and our enlisted DOD to get exposure to the 19 sociocultural elements of how operations, logistics, 20 acquisitions, things are transpiring in environments 21 like Ukraine for example. And a lot of what we 22 hear -- as an example, using Ukraine, because that's a 23 very current situation -- FPV drones and other technologies have changed the face of war as we know 24 25 it.

1	What's also very interesting and
2	important to study is how the entire whole of society
3	has been engaged and how hundreds of millions of
4	dollars have flown through groups like YPO and social
5	impact entrepreneurs who have partnered up with local
б	businesses and adopted direct action units. And the
7	way innovation is being done on the ground in these
8	environments is radically different than what we've
9	built systems to support.
10	It doesn't make it right, wrong, or
11	otherwise, but it's imperative that our Junior Officer
12	Corps and our enlisted and other DOD personnel gain
13	visceral exposure and establish rapport with
14	individuals operating with our allies. So when we
15	have to support whether through the advised assist
16	of company or from a deterrence perspective, we are
17	really well-versed and understand culturally what is
18	transpiring on the ground.
19	So we're asking we'd love for the
20	DIB and what DEF is going to try to do is in six
21	months we're going to work to stand up a fellowship
22	and this is going to really largely rely on business
23	relationships and then these international environs
24	that Evanna mentioned includes Singapore, Taiwan,
25	and Philippines and there's going to be a number of

1 challenges from security clearance, from any number of 2 structuring issues that we're going to face, and we'd 3 love for DIB to hold DEF accountable to this project, 4 and we'd love to ask the DIB and the individual DIB 5 members for support as we structure and architect this 6 cultural exchange. Thank you.

7 DR. THEODOTOU: Thank you, Jesse. Yes. 8 So you're building a fellowship. And so how do you 9 see the fellowship program addressing the biggest 10 challenges and opportunities? What is the fellowship 11 program looking to accomplish?

12 Evanna, do you want to take MR. LEVIN: that, or would you like me to take it? What we're 13 14 looking to accomplish is right now there's a 15 tremendous amount of focus on tech and added 16 manufacturing AI. These things are all, of course, 17 imperative. You know, how we do this in the private 18 sector and how we channel these improvements and these 19 innovations into DOD, of course, is imperative.

But what's not being studied enough in our estimation is the human element, the human terrain. And the fellowships are not new, it's not a new approach, there's nothing revolutionary about this. However, there are not a lot of opportunities for the junior officers and for the enlisted to gain

1	this type of exposure and to have systemic change.
2	We feel it's imperative for the younger
3	officers and people getting involved in the national
4	security community earlier on to gain exposure to how
5	our allies are operating in their environments because
6	we cannot expect them to do things the way that we do
7	things, and if we want to be in the best position to
8	support and again, to advise we have to have a
9	visceral understanding for how society is operating in
10	their respective countries and how we can best plug
11	into the existing cultural nuances of how their
12	respective ecosystems function.
13	DR. THEODOTOU: Thank you for that. So
14	let's pause here and open the floor for our board
15	members to ask any questions. Admiral Mullen?
16	ADMIRAL MULLEN: So Jesse, as I listen
17	to this I mean, historically, the cultural barrier
18	for the program you're talking about is allies and
19	partners come here. If we've had fellow typically.
20	I mean, it's not exclusive but they actually come
21	here in numbers to our war colleges, to our graduate
22	schools, to our train commands.
23	And to do this, I think what you're
24	talking about is and I don't disagree with this
25	it's just that getting the services to cut loose with

1	numbers not one of, because typically we do "one
2	of's" in Singapore or "one of's" in Taiwan or the PI.
3	You know, there's a volume requirement here across
4	DOD I'm not just talking military. It's that we
5	are so acculturated to people coming here that we
6	don't even think about being in their shoes, in their
7	country, which is absolutely critical.
8	So it's a big it's a big bar that
9	you've raised in terms of trying to get over, in
10	all at least as I understand it, in all the aspects
11	of it. It's not I couldn't agree more. I think
12	one of the things that we don't do well that we need
13	to focus on is how do we see it through other's eyes,
14	how do we see it from their perspective, and we're not
15	very good at it.
16	MR. LEVIN: Absolutely, sir. I think
17	you hit the nail on the head. And we understand
18	there's going to be tremendous cultural barriers in
19	the DOD to get requisite permissions and it's a
20	massive cultural shift. However, from what we've seen
21	on the ground operationally, we have a tremendous
22	amount to learn, and it goes both ways and it's very
23	difficult for us to ascertain those things from a
24	distance.
25	And you know, I don't know that we need

to have large numbers off the bat, and I think if you find the right people -- you know, you start with one -- our goal is to actually have six billets filled when we launch this program hopefully in six months, and you've got to start somewhere. But could not agree more.

7 MS. HU: Yeah, and we also want to pull 8 them out of the defense context -- right -- so that 9 they also understand where the civilians are coming 10 from, so we almost see it as like a mesh -- a mesh up 11 between the Aspen Executive Seminar where, you know, 12 you have certain amount of philosophy and history that 13 you have to read about other cultures plus that hands 14 on experience with their defense counterpart but also being exposed to what the -- civilian is going 15 16 through.

17 ADMIRAL MULLEN: Yeah, I don't disagree 18 with all that. It's just the difference between what 19 you just described and living there -- literally 20 living in a country, living with a family -- is almost night and day. And to me, that's where you want to 21 22 get to, that kind of understanding and all of the 23 pieces that go into that. The other note I took just as I was listening to you is how did -- YPO triggered 24 25 me because the relationship piece there is huge. It's

1	global.
2	But it goes it really sort of goes
3	through the business school. I mean that's kind of
4	central. That's where those relationships get
5	started. And is there a way to do this in that regard
6	which could make it subtractive from a career
7	standpoint for our junior officers in particular to go
8	to school, create that kind of connection and those
9	relationships and then bring them back. But you got
10	to go we got to go to other countries.
11	The normal cultural adaptation we get
12	in other countries, sadly, is typically when we're in
13	a fight, and we don't have it before we go. I mean,
14	that's so I admire the challenge but it's a big
15	challenge.
16	MR. BLOOMBERG: Let me ask a question.
17	Can somebody give us examples of things we tried to
18	address but failed and why they might fail in the
19	current system?
20	MR. LEVIN: I can give you an example
21	of how things have actually been happening in Ukraine
22	versus what we might require through our system. I
23	had mentioned YPO. You know, we've seen literally and
24	touched and helped facilitate literally hundreds of
25	millions of dollars of money coming through social

1 impact groups, you know, private entrepreneurial 2 venture groups, groups that have absolutely nothing to 3 do with government contracting or -- or primes but 4 simply wanted to be supportive.

And we've seen, you know, millions and 5 6 millions of dollars of procurement acquisitions and 7 last mile distribution done with zero money before 8 operational budgets even hit based on goodwill, 9 handshakes, and established rapport. So I think, to 10 answer your question to the best of my ability, our 11 process even for innovation is very systematized and 12 is very regimented and there's a clearly a place and a 13 need for that absolutely -- we're not saying that 14 that's not required.

15 However, we would be remiss and we would I think be setting ourselves up for failure if 16 17 we were not to identify the fact that the way that 18 money flows and support is being provided in other 19 environments is drastically different than what we're used to and we're seeing tech cycles and fielding of 20 21 tech and iterative evolutions of, you know, drone 22 technology and software back doors being fielded, 23 tested, changed, and brought back up to the field in 24 hours for pennies on the dollar because civilian 24 25 and entrepreneurial groups are just involved and have

adopted frontline units, something that we don't see
within our system.
MR. BLOOMBERG: Thank you.
MR. ROPER: Part of the necessity

5 because of how Ukraine -- I've been there and been 6 with the units on the front lines and it's very much a 7 confederacy and doesn't feel like the U.S. where 8 combined arms maneuver is possible. And so I think 9 the parodies and other entrepreneurial efforts that 10 have sprung up because there's been a lack of a 11 central procurement mandate from the government.

12 But I do think you've got -- Ukraine is 13 an example that you can hold up to the U.S. and all of 14 our allies and partners, especially with respect to junior officers and enlisted. And that's in Ukraine 15 it is often the junior officers and enlisted who are 16 17 being looked to as the technical experts. They're the 18 ones that are working with the companies or sometimes 19 doing things inside the units because they've got more 20 currency in technology. So I've seen that across all different echelons. 21

The junior officers are leading the ideas on tech, and I think that's something that could become part of training and scaled across most militaries where senior officers lean on junior

1 officers for greater insight on technical matters, and 2 if conflict occurs -- and we pray it doesn't -- the 3 same kind of development and operations go hand in 4 hand. Now they're -- now you've already trained for 5 that, you've prepared for that, you've educated for 6 that.

7 So I think there's a great opportunity 8 to make having tech currency being brought into the 9 units the focus of your first training efforts and I 10 think that's something that every nation that we work 11 with would want to partner with and try to standardize 12 that so that our teams and our units would be 13 interoperable in a conflict.

14 So I think there's a good idea there 15 that you can focus through a lens based on what's making innovation go so guickly in Ukraine and that's 16 17 one imperative. Two, the DevOps, developers and 18 operators working together. And three, there are 19 typically a few tech-savvy people in the units who can 20 speak tech speak and help on the rapid iteration cycles and that sounds like something we could codify 21 22 into a process that could be scaled.

23 MR. BLOOMBERG: Well, let me ask you 24 something. The craziness that's going on with 25 congress where they won't even consider authorizing

1	money to go to stop to help Ukraine stop Russia,
2	our war fighters, our people on the ground, what do
3	they think about the domestic political process and
4	how little support or do support their efforts?
5	MR. ROPER: Well, our units aren't
6	there on the ground, but I've spoken with many of the
7	Ukrainian units. Of course, they're very worried
8	about the west losing support for funding the war. I
9	think the lesson we should learn from what's working
10	in Ukraine that should be in place right now in the
11	Pentagon as well as our allies and partners is
12	Ukraine's in development always and we're in
13	procurement mode.
14	We're trying to help them win the war
15	with yesterday's technology, which Russia has already
16	responded to and countered, and I would argue there's
17	likely never been a war in history that's been won
18	with the equipment that was possessed on day one.
19	Some of the great innovations of World War II
20	Barnes Wallis building the bouncing bombs and the
21	bunker buster but these were developed during the
22	war.
23	And I think that's the lesson is that,
24	as opposed to trying to squeeze supply chains until
25	they're dry, we should be going back to the drawing

1	board with our innovators that we have quite a few of
2	in the U.S. and figuring out what new systems can help
3	them win. That's an old lesson that the Pentagon
4	should really relearn because that is what Ukraine is
5	doing day-to-day.
6	What they don't have the ability to do
7	is to think further than, like, a month cycle, in some
8	cases more than a week cycle. But we do, and I think
9	that's an area that we could really help and maybe
10	find some more cost-effective solutions that would
11	make supplying the war more politically palatable, but
12	I think it's critical that Ukraine prevail in this
13	war. What Russia's doing is template for other
14	nations to follow in the future.
15	DR. THEODOTOU: Thank you so much,
16	Will. I think this has been great so far
17	ADMIRAL MULLEN: Hey, Marina, just one
18	quick comment
19	DR. THEODOTOU: Yes, sir.
20	ADMIRAL MULLEN: Ukraine brings a sense
21	of urgency despite the fact our troops aren't there.
22	How do take this and Jesse, this is a question for
23	you how do you take this and create deterrence,
24	which is much more difficult, so that we don't go to
25	war in Taiwan?

1	MR. LEVIN: Be happy to
2	ADMIRAL MULLEN: I don't need you to
3	answer that. I just have that question out there
4	DR. THEODOTOU: That's a good way to
5	thank you, sir. That's a great way to wrap up a very,
6	very short discussion on allies and partners. Let's
7	shift gears now to incentives and aligning talent
8	incentives to drive tech adoption. So I'll turn it
9	over to Meagan to talk to us about the low hanging
10	fruit when it comes to incentives for talent. What
11	are we missing? What should we be focusing on?
12	Megan, over to you.
13	MS. METZGER: Fantastic. Thanks so
14	much for having us. So I'm going to talk about this
15	in three groups. I'm going to talk about the
16	innovative work force that we do have, the incentives
17	for them, the remaining work force that surrounds
18	them, and then the work force that we need to pull in.
19	So I'm starting with what I would call the folks that
20	are already in there, taking risk. They're doing more
21	innovative things.
22	First recommendation would be around
23	promotion pathways. So Will Roper talked about
24	codifying these tech savvy roles, helping create a
25	tech currency. But currently, the promotion for those

1	turned of skill dota is not immediately obvious. So
	types of skill sets is not immediately obvious. So
2	when you look at incentives, a big motivation for
3	individuals is going to be autonomy and mastery. And
4	right now, some of these roles where they gain skills,
5	become innovative, learn tech the tech knowledge
6	they need, are then rotated into positions where they
7	cannot use that skill at all.
8	You know, so I joke that someone could
9	go to a software factory, learn to code, and the next
10	position might be collecting urinalysis samples. It
11	doesn't line up, so we need a better promotion path to
12	help them retain that mastery that they're gaining.
13	The other is, you know, around creating promotion and
14	aligning it to the outcomes and so you can drive
15	accountability into these roles.
16	So when we look at the promotion
17	pathways today, it's a lot on time, on schedule, on
18	budget, but not a lot of the outcomes that we want to
19	drive by driving innovation. So, you know, keeping
20	the war fighters safer. So really understanding the
21	outcomes and aligning how promotions are done against
22	outcomes for that.
23	The second, I'll talk about the work
24	force that has to surround them. A big challenge
25	right now is you might have a skill set like these

tech rules or these innovative individuals that are more forward-leaning and the folks around them are not sure how to enable them or weaponize them for what we need them to do. So it's a really common theme to say, "Hey, everyone's just risk adverse," and we point our fingers, and I like to say, "With all due respect, we built them this way."

8 So I think a recommendation would be 9 look at the training and the up scaling of all of these careers that are in the critical path and really 10 11 audit to where are we building in such a risk aversion 12 along the way, how can we upscale them on the 13 technology to a level where they know enough to know 14 how to do their job differently, like contracting, for 15 example. The second one would also be focusing on our 16 senior leaders.

17 Senior leaders mostly did not come up 18 through the ranks thinking they were going to manage 19 major IT programs and now almost everything is an IT 20 program, and how you have to lead that and the 21 questions you have to ask has wildly changed. So 22 assessing how we upscale the work force that we have 23 that's required to enable those risk takers as innovators and those technological skills will be very 24 25 necessary.

1	The third will be the talent that we
2	need to attract, and we need to retain. So some
3	recommendations I would have two main ones. One is
4	bridge the skill the pay gap to so that we can be
5	on par, attract talent that might not have come to the
6	organization otherwise, especially in those technical
7	pathways like data science and software development.
8	And then two, allow for these types of roles to more
9	easily and fluidly go back out into industry and come
10	back in so that they can keep their knowledge fresh,
11	learn and understand the commercial sector, and things
12	like DevOps that continue to evolve and change every
13	day, and bring that knowledge back in without such a
14	big bureaucratic red tape barrier in front of them.
15	So those my three I would say
16	they're low hanging fruit, but it doesn't mean that
17	they are easy but there's a lot of opportunity there.
18	MS. THEODOTOU: Thank you, Meagan.
19	That's a great a great way to help us think how to
20	align and focus on the different areas or categories,
21	if you will, of talent that you outlined. And I love
22	how you highlighted potential recommendations for
23	each.
24	So as we dig deeper, we know that we
25	have to incentivize risk taking to ensure that the

1 leaders across the organization are rewarded for 2 different approaches to traditional problems and you alluded to that earlier, but how do we dig deeper into 3 ensuring that we train -- our talent would take 4 calculated risk, and in my mind, that requires leaders 5 that provide top cover and leaders that are also 6 7 trained to be able to have the right skills to be able to cultivate innovation and foster a culture of change 8 and provide that necessary top cover. Let's hear your 9 thoughts of that as well. 10 11 MS. METZGER: Yeah, absolutely. I do 12 think there is a great opportunity at the leadership level to one, help them understand how they're going 13 14 to need -- lead differently in a tech forward environment; two, understand what skill sets and what 15 it looks like to take calculated risk so they can 16 17 provide a left lane and a right lane to allow them to 18 innovate within but not go so far that we are now in a 19 risky situation. Now, with that, what on earth does risk 20 21 I think there's a lot of retooling to help mean? 22 understand how to reframe risk appropriately in a tech 23 driven world. So how it translates down to staff might be risk of a protest in a contract but all you 24 25 did was shift the risk to the people with the most to

1	lose, which is the people on the front lines.
2	So when we look at how we're evaluating
3	leaders and what risk they're taking, helping leaders
4	learn how to recalculate reframe their risk so that
5	they are taking appropriate levels of risk but it's
6	not having an impact on the mission that we need. A
7	lot of times that connectivity between the risk
8	aversion and the mission outcome that they need is not
9	tied together.
10	So I know that's a very nebulous thing,
11	but I think there is a lot of training intentional
12	training around calculated risk, reframing risk,
13	and how to lead more innovative, forward leaning
14	talent differently so that we aren't being risk averse
15	but in the wrong places.
16	DR. THEODOTOU: And Michael Madrid, I
17	know you have some thoughts around that. For example,
18	one notion is to transform the frozen middle to this
19	force multipliers that that are actually the ones that
20	are unleashing innovation because they now have the
21	skills to be able to foster innovative risk taking.
22	Michael, what are your thoughts on that?
23	MR. MADRID: Well, Meagan and I
24	actually didn't have a lot of pre-coordination, but
25	you'll see a lot of themes that are common between our

1	thoughts. And there's probably three things I would
2	highlight. The first let me just go back to
3	something you mentioned, Marina.

4 You mentioned top cover. And in my experience, top cover is necessary but insufficient. 5 6 All right? It's actually -- it's quite necessary and 7 quite helpful to have a senior leader like a five 8 alpha embrace an innovation program or recommend, you 9 know, a junior officer or enlisted person who has a bright idea, but it has actually historically been 10 11 insufficient for that person to actually go out and 12 make change because the flag officers don't have the 13 time or -- and it's not their responsibility to kind 14 of hand hold that solution through, and so there are a lot of people -- Marina, you referring to them as the 15 frozen middle -- that play a role in whether or not 16 those kinds of innovative solutions see the light of 17 18 day.

And so in thinking about sort of incentives for people throughout the organization, including the middle, there's three things that came to my mind. The first is to just establish the golden career path. Meagan and others have highlighted this already. And allow those who do innovation assignments or who kind of stray from the very typical

	Faye 20
1	military career allow them to continue progressing
2	in their field if that's what they want to do.
3	And I think part of this is looking at
4	the metrics by which we measure our personnel and how
5	we evaluate them and think about what those evaluation
6	metrics incentivize or disincentivize. And there's
7	both positive and negative ways to incentivize and I
8	would actually put forth in our unit that people who
9	are naturally innovative or innovators don't need a
10	lot of positive reinforcement.
11	We've seen programs throughout the
12	years that offer cash bonuses for innovative ideas or
13	try to reward people for doing innovative things, but
14	I think if you have that bug, you are dying to go do
15	it yourself, and you actually just need things to get
16	out of your way. And so really, I think more about
17	the negative incentives. We need to avoid
18	unintentionally punishing those people who do
19	innovating things or limiting their career or limiting
20	their opportunities, because that's when either they
21	innovate and then they decide to get out, or they have
22	the impulse to innovate but they restrain that impulse
23	because they don't want to be outside the norm. So
24	that's the first thing is thinking about career paths.
25	The second thing would be around

celebrating stories of smart risk taking, even when it 1 doesn't work out well, and I think this is one of 2 3 those things that aligns really well with what Meagan was talking about -- defining where failing is 4 acceptable and in fact necessary for learning and for 5 moving with speed and in those arenas where failures 6 7 is okay actually celebrate that because people need to see examples of taking a risk and not losing your job 8 or having your career ended because you took a risk 9 and it didn't work out. 10 11 We have to combat the notion that quote 12 unquote nobody ever got fired for picking Northrop 13 Grumman; right? And so the third thing I would say is 14 also exposing people to what good risk-taking environments look like, so whether it's the frozen 15 16 middle or anywhere in the stack of the organization, 17 show them what good looks like. We have experimented 18 in the duty of various tours with industry, tours with 19 startups, embedding people with venture capitalists 20 who do smart risk taking all the time as their day

21 job.

You may be familiar with the defense ventures program and it's an incredible shame that that program ended recently and AFWERX didn't renew the contract when there's an incredible body of people

1	who have gone through that program, returned to
2	services, and the data they say they're more likely to
3	stay in the DOD longer having had that experience. It
4	doesn't accelerate their exit from the DOD but rather
5	they go see what good looks like at organization from
6	Amazon to Androl and all sorts of organizations in
7	between and then investors who do risk taking every
8	day.
9	So show people what good looks like,
10	celebrate the failures when they're acceptable, and
11	think about what the career path looks like.
12	DR. THEODOTOU: Thanks, Michael.
13	That that actually high lights you talked about
14	rewarding and recognizing innovators, whether they're
15	winning or whether they're failing and making that we
16	establish metrics to do that.
17	And that brings us to our final
18	question that I'd like to ask Ian to address, which is
19	how do we know how do we know we're being
20	successful? What are some of the metrics that we can
21	incorporate to make sure that in the short term and
22	the longer term, we are measuring success and continue
23	to it rate so that we can continue improving and
24	scaling? Over to you, Ian.
25	MR. EISHEN: No, I really appreciate

1	the question and I appreciate the defense innovation
2	board's time today. I think one thing we have to do
3	when we talk about incentives, we have to separate the
4	organization from the innovators themselves. And so
5	what is the measure of success for the organization?
6	Well, I think the fact that a
7	fellowship program that kind of offered really fast
8	dynamic fellowships to people to bring them back into
9	service as opposed to something like skill bridge
10	where which is a great program, by the way where
11	you do this work, you learn this industry, and then
12	you go out and use that during your transition. It's
13	much different to bring that knowledge and network
14	back to your unit.
15	And so we have this major offering that
16	got canceled and I think that's a view of the metric
17	of success of the organization to take something that
18	was working and is part of the new NDAA language, part
19	of everything that's coming out of the national
20	defense strategy and the National Defense
21	Authorization Act, and yet it died. And it died due
22	to organizational plaque, probably.
23	There's lots of different stories about
24	why, but I think we have to make sure we
25	separate is the organization as a whole, and that

could be at the OSD level. You know, something like
this could turn into a micro sect of fellows program.
But you need to house something at a level that has
the right authority and budget to make sure that it
continues.

We separate that from the metrics of 6 7 success for the innovator. We've got a lot of 8 founders in this room, we have a lot of innovative 9 people on the call talking about this today, and if we think about it, the metrics of success for an 10 11 innovator is not did your idea succeed, because you 12 have to understand that 95 percent of your ideas fail. 13 And as long as you learn from those ideas, that's one 14 metric and the velocity of ideas and the velocity of 15 which you're able to bring those ideas and learn from 16 them is a huge metric of success.

17 It's also a metric of success not just 18 for the innovator but back to the organization because 19 if I'm able to continually bring multiple ideas up in 20 this organization, succeed, fail, good ideas, bad ideas -- it doesn't matter -- as long as I'm able to 21 22 bring them forward, it means that I've got a culture 23 and I've got an organizational structure that allows 24 that to happen.

25

And then I'd reframe everything that,

1	you know, my team has said today the fact that we
2	don't money is great, as long as you have enough to
3	not worry about your family. After that, it's just
4	being able to do great things and use the thing that
5	you're good at to help the overall organization.
6	That's why our people serve, whether that's active
7	duty, reserves, guard, or civilian force, but they're
8	here to serve and so let's let them do what they're
9	good at.
10	DR. THEODOTOU: Thank you so much, Ian.
11	So this in this section, we heard about we heard
12	from Meagan, talking about upscaling and rescaling our
13	talent and focusing on our talent.
14	We heard from Michael Madrid that top
15	cover is necessary but not sufficient, and then we
16	also heard from Ian on how we should be thinking about
17	separating the metrics of success for the organization
18	and make them outcomes-driven for the war fighter and
19	for the individual.
20	So we'll pause here and open it up for
21	questions. Mike Mr. Chair over to you to kick
22	the Q&A for this section
23	MR. BLOOMBERG: Well, I think we've
24	heard a lot today that will help inform our current
25	studies.

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1	Sue Gordon, do you have anything you
2	want to say?
3	MS. GORDON: Yeah, just one quick one.
4	I love so many of these ideas. I love the upscaling
5	including senior leaders to be able to understand
6	technology because generally what I experience is they
7	view new technology as additive risk and sometimes
8	it's not additive risk and that's hard to discern, so
9	it just kind of stops there.
10	But I would encourage you to I love
11	the topic of risk. I think it is a complex one and I
12	think it's complex for innovators because someone who
13	builds something thinks that risk is their thing not
14	working, and an operator often views risk as losing
15	the opportunity to do something again. So you might
16	want to think about this risk in a bidirectional way.
17	Maybe there's something that goes to
18	the innovators to have more exposure to a different
19	kind of risk equation that sometimes is what seizes
20	the system from putting it in. But I love where
21	you're going, you all.
22	MR. BLOOMBERG: Sue, I'd also be remiss
23	if I didn't say our thoughts are with you. And Sue
24	lost her husband about 30 days ago and you're nice to
25	come and participate and thank you for everything

Page 35 1 you've done for this country and everything that he did for this country. So we're a better a country 2 3 because of --MS. GORDON: Well, thanks. My Jim was 4 truly one of the great innovators in our community and 5 6 it's because he never believed that anything should 7 stop good outcome from happening, so --8 MR. BLOOMBERG: Well, you're certainly 9 keeping that going. 10 MS. GORDON: Good deal. Thanks. 11 MR. BLOOMBERG: For everyone watching 12 online, mark your calendars. Wednesday, April 17th is 13 when the board will hold our next public meeting and 14 we're looking forward to it. Until then, all the 15 best. Marina, over to you. 16 DR. THEODOTOU: Thank you, Mike. Great 17 conversation. So we have a few minutes left and I 18 wanted to highlight that we did receive a few 19 comments. They have been posted in our -- on our web 20 And I just wanted to highlight that the page. 21 comments we received actually resonate with the 22 discussion today -- a lot around talent management and 23 how can we maintain the competitive in not only the talent we have today but also the talent we need to 24 25 bring in, so that allude to some of the comments that

1 Megan was making. 2 We have comments about the adoption of 3 new technologies and that pace and how do we accelerate that pace, which is very much at the crux 4 of what we're looking at in the incentive study, and 5 6 also an idea about -- borrowed from the Australian 7 defense forces about doing a 12-month enlistment during the gap year for graduates -- high school 8 9 graduates before going to college. 10 So some interesting ideas. We 11 encourage the citizens and everyone within the DOD 12 national security network to continue sharing your 13 thoughts and insights. We -- the DIB is listening, 14 and so we look forward to receiving those. And next, 15 we're almost at the very end of our session here 16 today. Mike, did you have any additional thoughts you 17 wanted to share looking ahead? 18 MR. BLOOMBERG: Only that Mike Mullen 19 can add a lot, but I just wanted to say that we are 20 very lucky to be able to serve and help the country and help our military. Our security, our future is in 21 22 their hands, and they are ill-appreciated, 23 unfortunately. But those of us that have watched them understand the sacrifices they and their families make 24 25 so that we, every day, can go about our business.
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1	Mike Mullen, you want to add anything?
2	ADMIRAL MULLEN: No. I don't
3	think I couldn't have said it any better, Mike. I
4	appreciate the ideas. The difficulty here is how do
5	you translate great ideas into, you know, operational
6	effect tied to that mission. And it is a huge
7	challenge but that's the motivation for all of us here
8	is to try to figure out how to support those that are
9	making our country more safe.
10	DR. THEODOTOU: How about Charles
11	MR. BLOOMBERG: Marina?
12	DR. THEODOTOU: Yes. I was wondering
13	if Charles had any additional thoughts he wanted to
14	share. Charles?
15	MR. PHILLIPS: Yeah. I was just going
16	to add that I was down last week at the Pentagon
17	Dr. Seal [ph] and Dr. Hume [ph] as well. We are
18	making progress on working with our allies and
19	partners and they gave me many examples over a hundred
20	programs of where we've discovered technology at an
21	ally and brought it to the U.S. and manufactured it
22	here and vice versa.
23	What we're missing is scale, though,
24	because that's been driven by them personally, and so
25	it needs to be more programmatic, but I was surprised
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1	at how much it happens. There's some, you know, kind
2	of embedded barriers that you might expect
3	around or the requirements that we have, and they
4	have similar requirements, regulations in their
5	countries maybe those two things can come together.
6	But there's a lot going on but it all
7	boils down to trust, so where we started the
8	discussion around people on the ground and the ally
9	being comfortable turning technology over and
10	discussing it if you have people on the ground
11	there, which is how this happened, and therefore they
12	build those relationships, people start to share their
13	ideas, see what they're working on.
14	And we've done it with our close
15	allies, obviously. That's where you start, with the
16	UK and Canada and Australia, but if we can have more
17	people on the ground to our earlier discussions, it
18	seems like that things like that would happen beyond
19	just the relationships and the culture. You actually
20	get to all sorts of technology and data sharing as
21	well.
22	DR. THEOTODOU: Thank you, Charles.
23	And with that, we are actually coming to a close for
24	today's meeting. We greatly appreciate the Defense
25	Entrepreneurs Forum for joining us today. We

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1	appreciate your time and comments and insights. We
2	hope that these are going to be valuable to inform our
3	board members insights on the current studies. And
4	with that, I'll turn it back over to you, Mike, for
5	your closing comments.
6	MR. BLOOMBERG: Had my closing comments
7	and
8	DR. THEODOTOU: Okay.
9	MR. BLOOMBERG: I think it's time for
10	us to get back to work.
11	DR. THEODOTOU: All right. Thanks,
12	everyone, and we'll see you soon. Take care.
13	(Whereupon, the meeting concluded at
14	4:50 p.m.)
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[appropriate - care]

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