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Before the
Subcommittee on Cybersecurity

COMMITTEE ON
ARMED SERVICES

UNITED STATES SENATE

CYBER-ENABLED INFORMATION OPERATIONS

Thursday, April 27, 2017

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CYBER-ENABLED INFORMATION OPERATIONS

Thursday, April 27, 2017

U.S. Senate
Subcommittee on Cybersecurity
Committee on Armed Services
Washington, D.C.

The subcommittee met, pursuant to notice, at 2:33 p.m., in Room SR-222, Russell Senate Office Building, Hon. Mike Rounds, chairman of the subcommittee, presiding.

Present: Senators Rounds [presiding], Fischer, Nelson, McCaskill, Gillibrand, and Blumenthal.

1 OPENING STATEMENT OF HON. MIKE ROUNDS, U.S. SENATOR
2 FROM SOUTH DAKOTA

3 Senator Rounds: Good afternoon. We will call this
4 meeting to order. The Cybersecurity Subcommittee meets
5 today to receive testimony on cyber-enabled information
6 operations, to include the gathering and dissemination of
7 information in the cyber domain.

8 We are fortunate to be joined this afternoon by an
9 expert panel of witnesses: Chris Inglis, former Deputy
10 Director of the National Security Agency; Michael Lumpkin,
11 principal at Neptune Computer Incorporated and the former
12 Acting Under Secretary of Defense for Policy; Rand Waltzman,
13 senior information scientist at RAND Corporation; and Clint
14 Watts, the Robert A. Fox Fellow at the Foreign Policy
15 Research Institute.

16 At the conclusion of my remarks and those of Senator
17 Nelson, we will hear briefly from each of our witnesses. I
18 ask our witnesses to limit their opening statements to 5
19 minutes, in order to provide maximum time for member
20 questions. We will be accepting your entire statements for
21 the record.

22 The subcommittee has conducted two classified briefings
23 on cyber threats and deterrence of those threats. The
24 purpose of those briefings was to help our new subcommittee
25 analyze the current situation, to include the threat as well

1 as our own strengths and weaknesses.

2 The briefings included discussion of the report of the
3 Defense Science Board's Task Force on Cyber Deterrence.
4 Today, in our first open forum, we will further discuss
5 threat capabilities, specifically those of Russia, to use
6 new tools to obtain and disseminate information in this new
7 domain of conflict.

8 I would also note that we will follow the 5-minute rule
9 and the early bird rule today as we move forward.

10 Russian information operations, like those we
11 experienced during the 2016 election and currently ongoing
12 in Europe, are not new. Many nation-states, in one form or
13 another, seek to shape outcomes, whether they be elections
14 or public opinion. They do this to enhance their national
15 security advantage. In particular, the Soviet Union
16 conducted decades of disinformation operations against the
17 United States and our allies.

18 However, today's cyber and other disinformation-related
19 tools have enabled Russia to achieve operational
20 capabilities unimaginable to its Soviet forbearer.

21 Our hearing today is not intended to debate the outcome
22 of the 2016 election, which experts agree was not undermined
23 by any cyberattacks on our voting infrastructure or the
24 counting of ballots. But the purpose of today's hearing is
25 to learn from that experience and other such experiences in

1 order to assess how information operations are enhanced in
2 terms of the reach, speed, agility, and precision, and
3 impact through cyberspace.

4 Ultimately, we will continue to struggle with cyber-
5 enhanced information operation campaigns until we address
6 the policy and strategy deficiencies that undermine our
7 overall cyber posture.

8 In other words, my hope is that this hearing will be
9 forward-, not backward-looking, and help lay the foundation
10 for the legislation and oversight necessary to address this
11 national security threat.

12 Disinformation and fake news pose a unique national
13 security challenge for any society that values freedom of
14 speech and a free press. Our adversaries aim to leverage
15 our distaste for censorship against us to delegitimize our
16 democracy, influence our public discourse, and ultimately
17 undermine our national security and confidence. It is
18 imperative that we use our experience with the 2016 election
19 to create the defenses necessary to detect and respond to
20 future efforts.

21 We look to our witnesses to help us better understand
22 the threats we face and develop the tools we need to address
23 it.

24 Just last month, we heard from the Defense Science
25 Board about the urgent need for a cyber deterrence.

1 According to the board's findings, for at least the next
2 decade, the offensive cyber capabilities of our most capable
3 adversaries are likely to far exceed the United States'
4 ability to defend key critical infrastructure. Our ability
5 to defend against cyber-enabled information operations will
6 also likely require an element of deterrence and
7 demonstrating that actions will have consequences.

8 With that in mind, we look to our witnesses to help us
9 better understand the challenges that cyber-enabled
10 information operations will pose for us in the future and
11 what they believe will be required to counter this threat.

12 Information operations are not new and have been used
13 in one form or another in nearly every conflict throughout
14 history. Cyberspace has and will continue to enhance the
15 scope and reach of these campaigns. Our ability to develop
16 a strategy to deter and repel cyber-enabled operations is
17 critical. Our citizens' confidence in our democratic
18 process depends on it.

19 As we begin our first open hearing, I want to express
20 my gratitude for the opportunity to serve with our ranking
21 member, Senator Bill Nelson. In addition to his great
22 service to our Nation, Senator Nelson brings a wealth of
23 knowledge and experience that I know all members of our
24 subcommittee will look to in the days ahead.

25 Senator Nelson?

1 STATEMENT OF HON. BILL NELSON, U.S. SENATOR FROM
2 FLORIDA

3 Senator Nelson: Thank you, Mr. Chairman, and thank you
4 for your very gracious remarks.

5 And thank you as we proceed on trying to piece together
6 a new threat, one that we have seen employed against our
7 country and our basic foundations of our country. Because
8 even though information warfare has been used for years and
9 years, we know now, as a result of the Internet, there are
10 all new opportunities for mischief, because we have seen, at
11 a small cost, both in terms of people and money, a regime
12 like Putin's regime can directly access the people of the
13 United States, bypassing traditional media filters. And it
14 is possible to weaponize information to accomplish their
15 particular objectives.

16 As we learned last year, even our private and sensitive
17 communications, such as the email in a political campaign,
18 can be stolen through cyber hacking and then released
19 through established media. And in this way, modern
20 technologies and tools -- social media platforms, cyber
21 hacking to steal information -- can therefore create armies
22 of robot computers and the so-called big data analytics
23 powered by artificial intelligence, all of that can amplify
24 the speed, scale, agility, and precise targeting of
25 information operations beyond what was imaginable back in

1 the heyday of the Cold War, when there were two big
2 superpowers and we were at each other with our information
3 campaigns. This is a whole new magnitude greater.

4 So these tools and operations support are enhanced by
5 the more traditional elements, such as the multimedia Russia
6 Today network and Sputnik. And those two spread
7 disinformation and propaganda while trying to appear as
8 objective news sources.

9 So as the testimony of this committee has already heard
10 in prior hearings, and as the prepared statements of our
11 distinguished panel of witnesses today confirm, our
12 government and our society remain ill-prepared to detect and
13 counter this powerful new form of information warfare or to
14 deter it through the threat of our own offensive information
15 operations.

16 Our witnesses, however, today will explain that it is,
17 indeed, possible to apply the same technologies used by the
18 adversaries against them to fight back against their
19 aggression.

20 But harnessing and applying these technologies
21 ourselves effectively, both defensively and offensively,
22 will require significant changes to the way we are
23 organizing tasks both inside the Department of Defense and
24 other agencies.

25 Moreover, success also requires a deep partnership

1 between the public and the technology companies who have
2 built and operate the networks and platforms where this
3 conflict is playing out.

4 So this is a tremendous challenge that we face today.
5 And I thank you, Mr. Chairman, for calling this hearing.

6 The Chairman: Thank you, Senator Nelson.

7 At this time, we would like to begin with 5-minute
8 opening statements.

9 If you would prefer, Mr. Inglis, you may begin.

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1 STATEMENT OF JOHN C. INGLIS, FORMER DEPUTY DIRECTOR,
2 NATIONAL SECURITY AGENCY

3 Mr. Inglis: Chairman Rounds, Ranking Member Nelson,
4 members of the committee, thanks very much for the
5 opportunity to appear here today.

6 I will be very brief. I have submitted a written
7 statement for the record, but I would like to make, upfront,
8 four quick points.

9 First, on the true nature of cyberspace, as we consider
10 what happens in this domain, which I believe is, in fact, a
11 new domain extended from the old domains, you can think of
12 it as a noun. That noun, in my view, would be that it is
13 the meld of technology and people and the procedures that
14 bind to the two. If we try to solve just one of those three
15 pillars, we will find out that the other two will defeat us.

16 If you think about the verb, what is happening in that
17 space is massive connectivity, fading borders, and an
18 exponential increase in the ratio of data to information.
19 There is a lot more data, but that doesn't mean that we know
20 a lot more, that we have a lot more information.

21 The second point, on the trends that compound the
22 importance of cyberspace, there are, in my view, four trends
23 that essentially side by side with this onrush of technology
24 make a difference to our deliberations here today.

25 The first is that there is a new geography. It is not

1 independent of cyberspace. But companies, individuals,
2 begin to think about their opportunities, their aspirations
3 based upon a geography that is not physical anymore. It is
4 based upon opportunities without regard to physical borders
5 or the jurisdictions that typically go hand in glove with
6 those physical borders.

7 Second, there is a new means for organizing people.
8 People organize by ideology as much or more as by proximity.
9 In the physical world, that gives rise to a lone wolf
10 terrorist. In the cyber world, that gives rise to people
11 who you think are aligned with your values but are not
12 necessarily because they reach across the borders that you
13 can see.

14 Three, there are disparities that continue to exist in
15 the world. That is no great surprise. It has been with us
16 since the dawn of time. But those disparities are
17 increasingly reconciled in and through cyberspace. Whether
18 by collaboration or competition or conflict, disparities in
19 wealth and treasure, disparities in religious respects,
20 disparities in all manner of things, cyber is the new venue
21 for reconciliation.

22 Finally, not independent of that, geopolitical tension
23 continues to exist. And it too is increasingly reconciled
24 in and through cyberspace.

25 Summing up those four trends, they tend to reduce the

1 influence of traditional institutions -- nation-states -- by
2 defusing roles, fading borders, and flooding us with data as
3 opposed to information. But I would conclude nation-states
4 are not dead yet.

5 The third major point that I would make is that it is
6 increasingly important to consider the consequences of the
7 scope, scale, and use of cyberspace.

8 My colleague, Dr. Waltzman, submitted a written record
9 that talks about three levels of cyberspace. I will kind of
10 take some liberties with that, but the foundation of that
11 might be that you talk about the literal kind of
12 infrastructure in that space, possibly the data. Just above
13 that, you think then about what that content means. And
14 just above that is the confidence that comes from having a
15 reliance on those.

16 I kind of talk about those because we need to be clear
17 about our terms. I was very much appreciative of Chairman
18 Rounds' opening statement where he used the term information
19 warfare as discrete from cyber warfare. Cyber warfare, in
20 my view, is not a standalone entity. It is something that
21 has to be a component of the larger state of war that exists
22 between two entities.

23 When you talk about information warfare, it is at the
24 third level. It is at that topmost stack. And it is not
25 necessarily comprised of an exchange of tools or an exchange

1 of literal warfare. It is, in fact, a conflict of ideas.
2 Some of those ideas we may prefer. Some of those ideas we
3 may not. But we have to talk about those as distinct
4 entities.

5 My final point would be that the issue before us is
6 both about defending then cyberspace and also about
7 defending the critical processes that depend upon our
8 confidence in cyberspace. I would leave us with perhaps
9 some things to think about in terms of what the attributes
10 of a solution might look like.

11 We should remember that there are no strategic
12 capabilities, only capabilities that are employed in the
13 execution of strategic aims. We need to begin with the
14 declaration of what those strategic aims are. We need to
15 communicate them fully, faithfully, and in a collaborative
16 manner.

17 We need to employ all instruments of power in a
18 collaborative fashion. What we seek is not the proper
19 sequencing of these instruments of power but a concurrent
20 application of those instruments of power.

21 We need to stop reacting well and thinking that we,
22 therefore, have done good, and start to drive and perhaps
23 lead in this space, and at least anticipate well or track
24 well.

25 And then finally, as Ranking Member Nelson indicated,

1 we can use the techniques that have been used against us,
2 but we should never compromise our values, and there is a
3 distinct difference between those two.

4 Thank you.

5 [The prepared statement of Mr. Inglis follows:]

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1 Senator Rounds: Thank you, Mr. Inglis.
2 Mr. Lumpkin, would you care to begin?
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1 STATEMENT OF HON. MICHAEL D. LUMPKIN, PRINCIPAL AT
2 NEPTUNE COMPUTER INCORPORATED AND FORMER ACTING UNDER
3 SECRETARY OF DEFENSE FOR POLICY

4 Mr. Lumpkin: Chairman Rounds, Ranking Member Nelson,
5 distinguished members of the committee, thank you for the
6 opportunity to be before you today.

7 I trust my experience as a career special operations
8 officer, Assistant Secretary of Defense for Special
9 Operations and Low-Intensity Conflict, and as coordinator
10 and director of the Global Engagement Center will be helpful
11 today, along with my panel members here, in giving
12 perspective on the current status of the U.S. Government
13 strategy, capabilities, and direction in informational
14 warfare and counterpropaganda.

15 The previous administration and the 114th Congress
16 demonstrated clear commitment to this issue. This is
17 evidenced by President Obama's Executive Order 13721, which
18 established the Global Engagement Center and the 2017
19 National Defense Authorization Act, which expanded that
20 center's mission.

21 The 2017 NDAA expanded the GEC's mandate to include
22 counter-state propaganda and disinformation efforts well
23 beyond the original charter, which limited it to being
24 focused on countering terrorist propaganda.

25 This is a big step in the right direction, but the

1 sobering fact is that we are still far from where we need to
2 be to successfully operate and to have influence in the
3 modern information environment.

4 Since the end of the Cold War with the Soviet Union,
5 which was arguably the last period in history when the U.S.
6 successfully engaged in sustained information warfare and
7 counter-state propaganda efforts, technology and how the
8 world communicates has changed dramatically.

9 We now live in a hyperconnected world where the flow of
10 information moves in real time. The lines of authority and
11 effort between public diplomacy, public affairs, and
12 information warfare have blurred to the point where, in many
13 cases, information is consumed by the U.S. and foreign
14 audiences at the same time via the same benefits.

15 To illustrate this fact, as this committee is aware,
16 it was a 33-year-old IT consultant in Abbottabad, Pakistan,
17 that first reported the U.S. military raid against Osama bin
18 Laden in May of 2011 on Twitter. This happened as events
19 were still unfolding on the ground and hours before the
20 American people were officially notified by the President's
21 address.

22 While the means and methods of communications have
23 transformed significantly over the past decade, much of the
24 U.S. Government's thinking on shaping and responding in the
25 information environment has remained unchanged, to include

1 how we manage U.S. Government information dissemination and
2 how we respond to the information of our adversaries.

3 We are hamstrung by a myriad of reasons, to include
4 lack of accountability and oversight, bureaucracy resulting
5 in insufficient levels of resourcing, and an inability to
6 absorb cutting-edge information and analytic tools, and
7 access to highly skilled personnel. This while our
8 adversaries are increasing their investment in the
9 information environment while not being constrained by
10 ethics, the law, or even the truth.

11 The good news is that we have good people working on
12 this effort. The work force is committed and passionate and
13 recognize why this is important and why we as a Nation need
14 to get it right.

15 Again, thank you for the opportunity to be here today,
16 and I look forward to your questions.

17 [The prepared statement of Mr. Lumpkin follows:]

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1 Senator Rounds: Thank you, sir.

2 Dr. Waltzman, you may begin.

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1 STATEMENT OF RAND WALTZMAN, PH.D., SENIOR INFORMATION
2 SCIENTIST, RAND CORPORATION

3 Dr. Waltzman: Chairman Rounds, Ranking Member Nelson,
4 and distinguished members of the committee, I would also
5 like to thank you for inviting me to testify today.

6 I would like to start out by telling you a story. In
7 March 2006 in Iraq, one of our special forces battalions
8 engaged a unit of the Jaish al-Mahdi death squads. In this
9 engagement, our guys killed 16, captured 16, freed a badly
10 beaten hostage, and destroyed a major weapons cache, and
11 left the scene thinking this was a successful operation.

12 Unfortunately, there was one catch. By the time they
13 got back to their base within 1 hour, the remnants of the
14 Jaish al-Mahdi death squad had come in, cleaned the scene
15 up, taken their fallen comrades, arranged them on prayer
16 mats, and made it look -- and took pictures with a mobile
17 phone, pushed pictures out into the social media, onto the
18 Internet, including press releases in English and Arabic,
19 and claimed that those people were murdered in the middle of
20 prayer unarmed. And all of that was done before our guys
21 got back to the base, just like that. It was amazing.

22 Now, it took the Army 3 days to respond to that, and
23 those guys film everything they do. Not only did it take 3
24 days to respond, but an investigation ensued that kept those
25 people benched for 30 days.

1 So this turned out to be a major psychological defeat
2 on what people thought was a successful kinetic operation.

3 The question you should be asking yourselves at this
4 point, I hope, is, how did they manage to do this so fast?
5 They did not plan on being killed. They do not plan on an
6 engagement. And yet they managed.

7 Operations in the information environment are starting
8 to play a dominant role in everything from politics to
9 terrorism, to geopolitical warfare and even business, all
10 things that are becoming increasingly dependent on the use
11 of techniques of mass manipulation. These operations are
12 complicated by the fact that in the modern information
13 environment, they occur at a speed and an extent previously
14 unimaginable.

15 Traditional cybersecurity is all about defense of
16 information infrastructure. Unfortunately, traditional
17 cybersecurity is not going to help against these types of
18 attacks. Something quite different is required. The
19 problem requires a different approach and a different set of
20 supporting technologies, which I will call, collectively,
21 cognitive security.

22 To emphasize the difference, I would like you to
23 consider a classical denial of service attack. In a
24 classical denial of service attack, the object of the attack
25 is to bring down a server. The way you do it is by

1 generating massive amounts of content-free messages that
2 simply overload the server's capability to function, and it
3 dies.

4 Now, on the other hand, a cognitive denial of service
5 attack works in quite a different way. As an example, I
6 would like to bring out the Russian elections in 2011.

7 In December, there was going to be a demonstration
8 planned by antigovernment forces, and they were going to use
9 Twitter to organize the election using the hashtag
10 Triumphalnaya, which was the name of the square. That was
11 the word that people could use to find the tweets that
12 contained the instructions.

13 Unfortunately, the pro-government forces found out
14 about this and started to automatically generate at the rate
15 of 10 tweets per second messages that were just filled with
16 garbage, just all kinds of rubbish, which produced a
17 cognitive overload on the people who were being organized.

18 So Twitter did not shut it down because it did not
19 violate Twitter's terms of services. It was not a denial of
20 services attack in the traditional sense. And yet, it
21 brought the thing to its knees and destroyed the operation.

22 So to make cognitive security a reality and counter
23 this growing threat in the information environment, I would
24 like to suggest a strategy of two basic actions.

25 The first one is the establishment of a center of

1 excellence in cognitive security. This would be a
2 nonprofit, nonpartisan, nongovernmental organization devoted
3 to research, development, and education in policies,
4 technologies, and techniques of information operations. The
5 center would not be operational but rather set research and
6 development agendas, and provide education and distribution
7 of technologies and service to any of the communities that
8 it would serve.

9 The second is a study conducted by an organization,
10 like the Office of Net Assessment, for example. And this
11 study would answer three fundamental questions. The first
12 is, what are the laws and policies that currently make
13 operations in the information environment difficult to
14 impossible, including problems of authorities? Second, how
15 can those laws and policies be updated to support the
16 realities of the modern information environment? And third,
17 what kind of organizational structure is needed to manage
18 cognitive security?

19 And for further details, I refer you to my written
20 testimony.

21 Thank you.

22 [The prepared statement of Dr. Waltzman follows:]

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1 Senator Rounds: Thank you, sir.

2 Mr. Watts, you may begin.

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1 STATEMENT OF CLINT WATTS, ROBERT A. FOX FELLOW,
2 FOREIGN POLICY RESEARCH INSTITUTE

3 Mr. Watts: Mr. Chairman, members of the subcommittee,
4 thank you for having me here today. My remarks will include
5 some of what I talked about in my last session at the Senate
6 Select Committee for Intelligence, but also my experience
7 since 2005 working on cyber-enabled influence operations for
8 the U.S. Government in a variety of different capacities.

9 Russia does five things that sets it apart from others
10 in terms of influence.

11 One, they create content across deliberate themes,
12 political, social, and financial messages. But they hyper-
13 empower those with hacked materials that act as nuclear fuel
14 for information atomic bombs. These nuclear-fueled bombs
15 are what also power political groups and other profiteers in
16 the social media space that further amplify their messages.

17 Second, they push in unison from what appear to be many
18 locations at the same time, using both covert and overt
19 accounts and social media platforms.

20 Third, they share their content through gray outlets
21 and covert personas in a one-to-one and a one-to-many way,
22 such that it looks like a conversation is much larger than
23 it actually is.

24 Fourth, they discuss themes over enduring period,
25 driving the preferred message deep into the target audience.

1 This collaborative discussion amongst unwitting Americans
2 makes the seemingly improbable, false information seem true.

3 Finally, they challenge their adversaries online for
4 unnaturally long periods and at peculiar intervals, and push
5 their political opponents down, whether they be politicians,
6 media personalities, or just people that do not like Russian
7 positions.

8 If there is one thing that I could emphasize today it
9 is that cyber influence is a human challenge, not a
10 technical one. American obsession with social media has
11 overlooked several types of real-world actors that help
12 enable their operations online: Useful idiots such as
13 unwitting Americans that do not realize that they are using
14 Russian information for their political or partisan or even
15 social issue purposes. Fellow travelers, these are personas
16 that have been propped up and promoted across Europe and the
17 United States for their alternative-right positions that are
18 both anti-EU and anti-NATO. And the last part is agent
19 provocateurs, which are actual people that create incidents
20 such that they can drive traffic online.

21 If we look back to our experience with ISIS, part of
22 the reason ISIS's social media campaigns did so well is
23 because they were taking ground and establishing a
24 caliphate. The same happens in the Russian context.

25 Each of these actors assist Russia's online efforts and

1 have to be dealt with along with the cyber components of it.

2 When it comes to Americans countering cyber-influence
3 operations, when all is said and done, far more is said than
4 none. We talk about it a lot, but we do fewer iterations
5 than our Russian adversaries. When the U.S. has done
6 something, it has not been effective. And at worst, it has
7 been counterproductive. And that is due to the way we
8 structure it.

9 Despite spending hundreds of millions of dollars since
10 9/11 on U.S. influence and information operations, we have
11 seen the expansion of Al Qaeda and the Islamic State.

12 We have excessively focused on bureaucracy and digital
13 tech tools. But at the same time, these social media
14 monitoring tools have failed to counter Al Qaeda. They did
15 not detect the rise of ISIS, nor did they detect the
16 interference of Russia in our election last year.

17 America will only succeed in countering cyber influence
18 by turning its current approaches upside down, focusing on
19 the human aspect and using the methodology prioritizing
20 tasks, talent, teamwork, and then technology, in that order.

21 The first task we have to do is clearly map out the
22 Russian scope of their influence effort, both on the ground
23 and online, so we understand where those two come together.

24 Second, American politicians, political organizations,
25 and government officials must reaffirm their commitment to

1 fact over fiction by regaining the trust of their
2 constituents through accurate communications.

3 Third, we must clearly articulate our policy with
4 regards to the European Union, NATO, and immigration, which
5 at present mirrors rather than counters the Kremlin's
6 position.

7 With regard to talent, U.S. attempts to recruit
8 personnel excessively focus on security clearances and
9 rudimentary training, thus screening out many top picks. A
10 majority of top talent needed for cyber influence that
11 reside in the private sector have no need for a security
12 clearance, have likely used a controlled substance during
13 their lifetime, and can probably work from home easier than
14 they can from a government building. We need to enable that
15 talent rather than screen it out.

16 In terms of teamwork, U.S. Government influence efforts
17 have fallen into the repeated trap of whole-of-government
18 approaches. Moving forward, we need a task force
19 specifically designated to deal with cyber influence and
20 with the resources and personnel staffed to do it.

21 Tech tool purchases have excessively focused on social
22 media analytical packages, which I believe are the digital
23 snake oil of the modern era. What we need instead are tools
24 that help us empower our analysts, that are built by our
25 analysts that our coders and programmers that are working

1 with our analysts.

2 Based on my experience, this is the most successful
3 solution. We build actual custom applications that help us
4 detect the threats that we are wanting to do. We have seen
5 this in the hacking space. The NSA and other agencies have
6 done it. We do not need big, enterprise-wide solutions. We
7 need to rent tools. We do not need to buy them.

8 With regards to the private sector in the roughly 1
9 month since I last testified, they have made great strides
10 in restoring the integrity of information by reaffirming the
11 purity of their systems. Facebook, Google, even Wikipedia
12 now have all launched efforts that I applaud and think will
13 make a big difference.

14 Twitter is the remaining one that I am waiting to hear
15 from, and Twitter is the key cog that is left. Twitter's
16 actions, if they take them on parallel with Facebook and
17 Google and the others, can help shape the Russian influence
18 of the French and the German elections going into summer.

19 In conclusion, my colleagues and I identified, tracked,
20 and traced, the rise of Russian influence with home
21 computers and a credit card. We can do this if we focus on
22 the humans first, make them the priority, figure out the
23 strategy we want to implement, and back them with the best
24 technology, all of which America has at its doorstep.

25 Thank you very much.

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[The prepared statement of Mr. Watts follows:]

1 Senator Rounds: Thank you, sir.

2 I will begin the questions, and we will move around
3 through here, 5 minutes each on questions.

4 I do have a specific question for Mr. Inglis.

5 You were a member of the Defense Science Board Task
6 Force on Cyber Deterrence, and we have had an opportunity to
7 review both the classified and the unclassified report.

8 As I mentioned in my opening remarks, the task force
9 determined that the deterrence of Russian and China in
10 cyberspace was urgently needed because, for at least the
11 next decade, the offensive cyber capabilities of our most
12 capable adversaries are likely to far exceed the United
13 States' ability to defend key critical infrastructure.

14 I am just curious, in your opinion, as a member of the
15 board, can cyber deterrence apply to cyber-enabled
16 information operation campaigns like that which we
17 experienced last year? And if it can, what unique
18 challenges does this gray zone warfare, like information
19 operations, pose for deterrence frameworks?

20 Mr. Inglis: Thank you for the question. So I begin by
21 saying, I was privileged to serve on that panel. And the
22 comments I am about to make are derived from my experience
23 on that panel, but not on behalf of that panel.

24 I would say that I do think that it can apply. It has
25 some natural limits. There are, of course, deterrents of

1 two kinds in classic deterrence theory. The first is
2 deterrence by denial, that you simply deny your adversary an
3 opportunity to careen into your well-laid plans or your
4 forward momentum through a variety of methods. The second
5 is deterrence by cost imposition. I think both of those
6 could apply here, but I think the cost imposition probably
7 will be the weaker of the two.

8 But it is interesting to take a look. There was a
9 recent op-ed -- I believe it was in politico.com -- about
10 why Finland is not concerned about Russian interference in
11 their election. It is not because Russia is not interfering
12 in their election. It is because of two things.

13 One, Finland actually well understands the nature of
14 Russia and what they do, and the means and methods by which
15 they do it. It is easier for them to identify, from
16 citizens up to leaders, what the Russians are up to and what
17 they are up to.

18 But more importantly, Finland has defined from the top
19 down their own message, their own strategy, their own
20 strategic gains. Then they take great pains to communicate
21 that latterly, horizontally, and vertically, such that it is
22 very hard to careen into that message. I think that is
23 deterrence by denial in the information war.

24 So, therefore, I do think that that theory can help us
25 in this space.

1 Senator Rounds: Thank you.

2 For all of you, I would just like to work my way down
3 the line here. I will ask each of you to respond.

4 Much of the Russian activity in the run-up to the U.S.
5 presidential election appears to have been enabled by loose
6 or outdated cybersecurity controls. What can the government
7 do to better protect its networks and the information
8 residing therein?

9 And some of the data breaches occurred, as we all know,
10 on nongovernmental systems that are not considered part of
11 DHS's 16 designated critical infrastructure sectors. How
12 can the government encourage these private sector network
13 owners and operators to better protect their networks?

14 We had both, those that looked both in government and
15 out of the government.

16 I will begin with you, sir, if you would like, and we
17 will work our way back down the line.

18 Mr. Watts: I think the big challenge is that most of
19 this happens outside government networks, so even if you are
20 a government official or a former government official, they
21 are going to hit you when you are not in your workspace.

22 That is partly because attacking the government network
23 can be seen as an act of war, whereas it is more in the gray
24 zone if they hit you on your personal network. That is a
25 deliberate strategy they pursue.

1 I think the other thing is the controls developed in
2 the private sector are much stronger than we ever see in the
3 government sector. So, for example, whenever my colleagues
4 and I write about Russia, we get attacked on our Gmail
5 accounts. But Gmail not only notifies us that we are being
6 attacked but says that you are being targeted by a foreign
7 nation, which helps us with our research, ironically. We
8 know that we are on the right track because they tell us
9 that we are on the right track.

10 But I think those controls, working with private sector
11 and not trying to create them from the inside -- we have a
12 tendency in government to say we need to build a thing to do
13 it. It is figuring out how we work with the private sector,
14 whether it is in the financial or even in the social media
15 space -- they tend to develop these solutions quicker -- and
16 how we migrate those back, number one, into the government,
17 and even to government employees and officials, our people
18 that are being targeted, so they have the best and most
19 sophisticated defenses that are out there.

20 Senator Rounds: Thank you.

21 Dr. Waltzman?

22 Dr. Waltzman: So I think one of the most important
23 things, actually, when it comes to private industry, where I
24 would agree that this is where we need to really focus our
25 efforts, is in getting people to cooperate with each other.

1 This is a really huge problem.

2 How do you get people to share problems, to say this is
3 what is happening to me now, this is what happened to me
4 yesterday, what is happening to you? Of course, people are
5 reluctant to admit that they have been attacked, that they
6 suffered a big loss. They do not want their shareholders to
7 find out. So something that we could do to try to encourage
8 that kind of cooperation I think would be very important.

9 Senator Rounds: Mr. Lumpkin?

10 Mr. Lumpkin: There are technical issues to prevent
11 access by our adversaries to our networks. One of the big
12 challenges we have is the component of training, the
13 training of people who are using these networks to make sure
14 they do not avail themselves to phishing operations and
15 provide access to the networks by our adversaries
16 unwittingly. My experience is the protocols are in place,
17 but it is usually, when there is access achieved by our
18 adversaries, it is because the human factor was not in
19 compliance for what needed to be done.

20 So I think it is about enforcement of the rules and
21 holding people accountable who do not live up to the
22 expectations of the rules.

23 Mr. Inglis: I subscribe to all that has been said so
24 far. I would just simply emphasize again that the activity
25 undertaken by Facebook, Google, and some others to

1 essentially try to create authoritative corroboration of
2 what might otherwise be disparate, diverse news sets is very
3 important in this space. Most of that takes place in the
4 private sector.

5 The government's role can be to perhaps create a venue
6 for that, some space for that, and to collaborate with other
7 like-minded governments to see if we cannot make that run
8 across international boundaries in ways that might not be
9 natural.

10 Senator Rounds: Thank you.

11 Senator Nelson?

12 Senator Nelson: Thank you, Mr. Chairman.

13 The Russians, be it the Soviet Union or today, have
14 been doing this kind of stuff for a long time. But with the
15 new tools that you all have talked about, we are seeing a
16 different and effective kind, where you can actually have
17 the intent of affecting the outcome of an election upon
18 which a democracy absolutely depends that it is protected,
19 as well as the confidence in that election is protected.

20 Now, that is going on right now. It is going on in
21 France, and it has been going on and will go on in Germany.

22 So if this is a new normal, what do we do to inoculate
23 the public with call it resilience against this kind of
24 campaign that ultimately ends up being misinformation or
25 call it fake news or whatever you want to call it? What do

1 we do in the future?

2 Mr. Lumpkin: As I look at this problem, it is about
3 the credibility of the source. When I look at the
4 information space, and I see the inundation, what I call
5 information toxicity that I feel every day of so much
6 information coming in, it is about finding those sources
7 that have proven to be credible for me.

8 I think that translates across the spectrum, going back
9 to what Clint Watts was talking about earlier. You have to
10 make sure, as a U.S. Government, our information is accurate
11 and that we are a reliable source of information for
12 consumption of the American people as well as international
13 community as well.

14 So I think that is a good first step in making sure
15 that the American people have a good place to go to get
16 information, which has not always been the case.

17 Senator Nelson: And what is that source?

18 Mr. Lumpkin: As the information environment has
19 changed, our organization of how we manage information as
20 the U.S. Government has not changed. Again, this goes back
21 to my opening comments of public diplomacy, public affairs,
22 and information warfare. Each one is governed by different
23 authorities, has different people giving the message.

24 But those three things in a hyperconnected world are
25 not coordinated. So what an Embassy may say abroad can be

1 consumed by the U.S. audience at real time. And what is
2 said here domestically can have impacts overseas real time.

3 So we have to find a way to synchronize our overall
4 messaging as a U.S. Government, which we have not done to
5 date.

6 Senator Nelson: All right. But I am thinking
7 something that the government cannot synchronize, and that
8 is the rough and tumble of an election.

9 Mr. Inglis?

10 Mr. Inglis: I was not going to address the rough-and-
11 tumble of an election, but we can come back to that. I was
12 going to support the argument and say that it is very
13 difficult, given what was suggested, and I think that is
14 right, if you go second. You need to go first.

15 You need to actually establish the momentum, the
16 forward momentum, of a credible idea, a credible source, the
17 corroboration of that source, before you then are chasing
18 the allegations or the vilifying data that might otherwise
19 contest for the time and space.

20 Senator Nelson: So do we, as a government, need to
21 make sure that everybody in America understands that Russia
22 Today is a fake site?

23 Mr. Inglis: I do not think it is necessarily a fake
24 site. It is a source of data. It is not one and the same
25 as information or truth. Therefore, it is a useful

1 influence on how we think about the world. It might, in
2 fact, convey to us Russia's perception, but that is not one
3 and the same as an articulation of our values or an
4 articulation of what is true.

5 But if we get on message, and it is not necessarily
6 going to be a monolithic message, because we are a set of
7 diverse people -- that is a feature here. But if we are on
8 message and we try to actually talk about that in a
9 positive, forward view, and, at the same time, we educate
10 our people, the people who essentially live in that swirl of
11 information, about the nature of information war and what
12 their duties are to try to figure out whether they actually
13 have a grasp on a fact, the sum of those two things I think
14 will make a difference.

15 Government can lead in that. The private sector
16 already is.

17 Senator Nelson: Translate what you just said with an
18 example. So an obvious fake news story has been put out by
19 Russia Today. Now how is that --

20 Mr. Inglis: Let me give you a very personal example.

21 Senator Nelson: Please.

22 Mr. Inglis: I have testified many times before this
23 group and others on the summer of 2013, trying to explain
24 what NSA was really doing with the --

25 Senator Nelson: What?

1 Mr. Inglis: What the National Security Agency was
2 really doing with the telephone metadata or other such
3 programs.

4 Senator Nelson: Right.

5 Mr. Inglis: The challenge there was not that I think
6 we were found in the wrong place. It was that we had not
7 told a story that people could say that there is actually a
8 true story associated with this. We then spent the summer
9 and some time since chasing the allegations, which were not
10 one and the same as revelations.

11 If we had gone first, if we had essentially said, here
12 is what we do, here is how we do it, and essentially created
13 a backdrop such that when fake news or an alternative
14 version of that, Edward Snowden's version of that, came into
15 view, people would have said: No, no, I have actually had a
16 chance to think my way through this. I understand what they
17 do. I may not be comfortable with that policy, but I have
18 actually already heard the story from credible, competent
19 sources.

20 But we went second, and that, therefore, made it all
21 the more difficult for us to put that back in the box.

22 Senator Nelson: Okay, I agree with that. But you try
23 to explain metadata and people do not understand that.

24 Mr. Inglis: I took care not to in the moment that just
25 past because that is less the issue than it is about, is the

1 government actually exercising some national security
2 authorities?

3 Senator Nelson: Well, what folks needed to understand
4 is that metadata was business records of phone calls.

5 Mr. Inglis: Of course, they did. But you start with
6 principles and say, look, the government, in pursuit of
7 national security but not at the detriment, not while
8 holding liberty at risk, exercises certain authorities. We
9 are collecting data.

10 People pause and say, okay, let me think about that.
11 What kind of data?

12 You have essentially set the stage by saying what the
13 value proposition is upfront. Then you can have a
14 discussion on the details.

15 We too often lead with the details, which people are
16 left to imagine what the value proposition that rides on top
17 of that is, and that then leads to discord.

18 Mr. Watts: When I testified last time, we had put
19 forth the idea of an information consumer reports in social
20 media, essentially a rating agency that sits apart from the
21 government that rates all media outlets over time and gives
22 them a score.

23 That score is based on the accuracy of reporting, many
24 variables like you used to remember from the Consumer
25 Reports magazine. It is openly available by that rating

1 agency, and it is put next to every story that pops up on
2 Facebook, Google, Twitter, whatever it might be, such that
3 the consumer, if they want to read about aliens invading the
4 United States, they can, but they know that the accuracy of
5 that is about 10 percent from that outlet. They then have
6 the decision ability to decide what they want to consume.

7 Google and Facebook have already started to move in
8 this way and have already done fact-checking, Snopes kinds
9 of things that say that this is true or false, and are
10 building that in.

11 I think they will get to that point where, essentially,
12 you are giving people a nutrition label for information. If
13 they want to eat a 10,000-calorie meal, then they can go
14 ahead and do that. But they know why they are fat, and they
15 know why they are dumb, and they know that the information
16 they are consuming is not good for them.

17 Senator Nelson: So what is your rating of the National
18 Enquirer?

19 Mr. Watts: So the National Enquirer would be extremely
20 low. I would put RT at 70 percent, just by my examination
21 and some research.

22 Senator Nelson: Seventy percent accuracy?

23 Mr. Watts: Seventy percent true, 20 percent
24 manipulated truth, 10 percent false. That is what I would
25 assess it at over time.

1 It is actually not that much different than some
2 mainstream outlets that would be rated. That rating system
3 would help mainstream outlets as well. They would have to
4 improve so that their rating gets higher. That check goes
5 across everybody.

6 If an outlet pops up and 5 days later they are putting
7 out fake news with high traffic, people would know, oh, this
8 is an outlet that just popped up and it is probably
9 propaganda.

10 The two things the government can do to stop that same
11 sort of rumint, or rumor intelligence, is put up a site at
12 both the State Department and the Department of Homeland
13 Security. Any propaganda that is put out by a foreign
14 nation that directly has a connection to the U.S. Government
15 -- for example, the fake Incirlik attack last summer in
16 Turkey that the Russian RT and Sputnik news tried to
17 promote, the State Department immediately comes up and says
18 here is live footage from Incirlik Air Base. There is no
19 siege going on. We have extra security in place because the
20 Chairman of the Joint Chiefs is coming tomorrow.

21 That is a technique that actually came out of
22 counterterrorism in Iraq from 10 years ago where we had
23 rapid response teams that would go out when there was
24 terrorist propaganda. We would say: Here is live footage
25 of it. It did not happen. Here is what was actually at the

1 scene.

2 DHS needs to do that as well, because sometimes state
3 actors will try to influence the public to think that crises
4 in the United States are bigger than they are. So if there
5 is an airport evacuation, that is ripe material for cyber
6 influence by Russia, to amplify that and create concern and
7 panic in the U.S.

8 So we need both a domestic component of it and an
9 international foreign policy component of it.

10 Those three things combined, I think the private sector
11 will lead in this, and they are already doing a lot for it,
12 will have a huge impact on that false news being spread
13 around the Internet.

14 Senator Rounds: Senator Blumenthal?

15 Senator Blumenthal: Thanks, Mr. Chairman. And thanks
16 for having this hearing.

17 And thank you all for being here and for your great
18 work. We are only going to touch the surface of this very
19 complex and profoundly significant topic.

20 I am just a lawyer. I do not have the technical
21 expertise that you do. And our system of laws typically
22 relies on what judges have called the marketplace of ideas
23 to enable the truth to win. There are all kinds of sayings
24 in the law about how sunlight is the best disinfectant,
25 about how the cure for lack of truth is more truth, which

1 perhaps is an outdated view about what the modern
2 information world looks like.

3 Mark Twain may have had it right when he said, I am
4 going to butcher this quote, but, falsehood is halfway
5 around the world by the time the truth gets out of bed.
6 Falsehood is so much more easily spread because sometimes it
7 is so much more interesting and has the immediacy of a lie
8 in grabbing people's attention, where the truth is often
9 mundane and boring.

10 I want to go to a point that you made, Mr. Watts,
11 looking at your testimony. I am going to quote.
12 "Witnessing the frightening possibility of Russian
13 interference in the recent U.S. presidential election," and
14 you go on.

15 Is there any doubt in your mind that the Russians did,
16 in fact, interfere? It was more than a frightening
17 possibility. They did interfere. I think the intelligence
18 community is fairly unanimous on that point.

19 Mr. Watts: Yes, that is correct. What I was trying to
20 illustrate is that this possibility got us to focus too
21 heavily on the technological aspects and the social media
22 aspects of it.

23 If you remember in the lead up to the election, we were
24 obsessed about machines being hacked or votes being changed.
25 And that was deliberate. That is one of the Russian

1 influence lines, was, "Oh, by the way, even if the election
2 comes out, the election is rigged. There is voter fraud
3 rampant. You cannot trust anything."

4 That is about active measures. That is about eroding
5 confidence in democracy. Essentially, even when an elected
6 official wins, you do not trust them to be your leader. You
7 think they got there under false pretenses.

8 Senator Blumenthal: That is what one of the candidates
9 was saying too, correct?

10 Mr. Watts: Correct. We have seen that repeatedly, and
11 you are going to see that in other elections around the
12 world.

13 Senator Blumenthal: Which leads to the suspicion, and
14 there is increasing proof of it, that maybe Trump associates
15 were involved in some way in either supporting or aiding or
16 colluding with these Russian efforts.

17 I am not asking you to reach a conclusion, but that is
18 under investigation now by the FBI, correct? And all of the
19 three kinds of individuals, the fellow travelers, the
20 friendly idiots, and agent provocateurs, may have been
21 involved, correct, in this Russian effort?

22 Mr. Watts: Yes. Cyber influence, we keep separating
23 out the technical and the human. Cyber influence is most
24 effective when you have humans also empowering them, human-
25 empowered action.

1 You have seen this repeatedly across all elections,
2 which is they either target their propaganda so they can arm
3 certain campaigns against another campaign. That is what
4 hacking is about. "I am going to target some people with
5 hacks, such that I have secrets that I can arm their
6 propaganda as well." That is the amplification of it.

7 The other part is they are picking candidates and
8 backing them either by supporting them or even on the ground
9 through political parties and potentially funding across
10 Europe.

11 The last part is, if they do not have the right actions
12 to promote on social media, they will create them. Incirlik
13 is a half-baked attempt. There is a small protest. They
14 turned it into a terrorist attack. If there is not
15 something to drive an election, they might create it. A
16 tactic of classic active measures is, if I need a terrorist
17 attack to foment an audience to swing an election a certain
18 way, maybe the way you saw in Spain in 2004, or more
19 recently even in France, they might create those actions
20 such that they can have that in cyberspace in their
21 influence network to power the candidate they want to move
22 in one direction or the other.

23 Senator Blumenthal: In terms of recruiting the talent,
24 since the human factor, as you say, is so important -- and I
25 am assuming that others on the panel agree that attracting

1 qualified people in this effort is really critically
2 important. We can buy all the machinery will want, but the
3 talent is attracted to other venues and corporations where
4 they often are paid more.

5 I think this effort is worth a whole study, and a very
6 urgent one, in and of itself. And I have heard our military
7 leaders sitting where you are saying we need to recruit
8 these folks, and we are having trouble doing it because
9 there is a limited pool and it pays a lot more to go work
10 for Google or whatever Silicon Valley corporation, startups,
11 and so forth.

12 Mr. Watts: I do not know that I always buy into the
13 money aspect of it, to be honest. I work in the private
14 sector as a consultant a lot. The work is really boring
15 compared to being in the government. You might get paid
16 more, but, to be honest with you, you are not going to be
17 too excited at the end of the day.

18 There are motivated Americans out there that are
19 incentivized by more than just money. Maybe they have gone
20 and made a lot of money and they want to reinvest in their
21 country. I think right now there is an upsurge of people
22 that are not excited about Russia possibly manipulating
23 people's thoughts and minds and views in a way that is anti-
24 American. I think there are a lot of people who would want
25 to join in.

1 The problem is, when we bring those people into the
2 government space, we take everything that made them great or
3 gave them the space to be great away from them, and then we
4 say we want you to be like a soldier and a private, and you
5 need to do all these other things and take 37,000 hours of
6 mandatory training so that you can operate this computer
7 which does not have the software you have at your house.

8 So that is what even the most inspired Americans out
9 there who are savvy in tech look at -- I know I look at it.
10 And I say, man, I can do a lot more outside the government
11 than I can do inside.

12 Until we give them the space to be the tech savants
13 that they are, they are never going to want to come in and
14 stay. They might come in for a while, but ultimately, they
15 will leave because they are motivated but frustrated.

16 Senator Rounds: Dr. Waltzman, you did not get a chance
17 to respond to Senator Blumenthal's question. I think it is
18 a good one. Would you care to respond to that?

19 Mr. Waltzman: Yes. So there is one additional thing.
20 Everything Clint said is true, except that there is more,
21 and it is actually even worse.

22 The problem is that a young person would get to
23 wherever they are going to go in the government, and they
24 are going to be gung-ho and ready to act, and then they are
25 going to find out, well, gee, we have all of these

1 spectacular restrictions and lawyers and all kinds of
2 problems. Never mind about all of the other things you have
3 to do. There are so many restrictions on what you are able
4 to do that they sit there and say, okay, why am I doing this
5 to begin with? If they are not going to actually let me do
6 the job because of all of these problems, why am I here?

7 So that is an even bigger problem. And if that can be
8 overcome, the money, I do not think, is the big issue. All
9 these other things, the time to take from people, is not the
10 big issue.

11 That is the central issue. They come because they are
12 patriotic. They want to do the job. And you do not allow
13 them because of these rules.

14 Senator Blumenthal: My time has expired, and I have
15 more questions that perhaps I can submit to the panel.
16 Unfortunately, I have to go to another commitment. But I
17 just want to thank you all for your service to our Nation,
18 each of you has an extraordinary record of public service,
19 and suggest that perhaps that record of public service
20 reflects motivations and instincts and a worldview that is
21 not shared because you have committed your lives to public
22 service necessarily by the broader American public.

23 But I hope you are right, that people would be
24 attracted. And also, to just add a caveat, perhaps, to the
25 point that you made so well about the screening. You will

1 remember that, to our sorrow, we encountered situations
2 where the screening seemed to be inadequate to rid ourselves
3 of the Snowdens before they did what they did. That, in
4 turn, precipitated a major sort of effort to clamp down.

5 So there is a balance here, and I recognize that, if
6 you screen out everybody who loves to work in socks at home,
7 or at some point during their education used a controlled
8 substance, you may deprive yourself of the most creative and
9 ingenious of the talent. But it is a dilemma how we screen.
10 I take that point.

11 Senator Rounds: Let me, briefly, the cyber lawyer of
12 the future is going to look different than perhaps what a
13 lawyer looks like today. But I would like, as long as
14 Senator Blumenthal is still here, one item of clarification
15 I would like, in terms of your statement, Mr. Watts, the
16 integrity of the elections was influenced because they
17 suggested it was influenced. I do not believe there was
18 actually any evidence found where they actually did
19 anything.

20 Do you just want to clarify that a little bit?

21 Mr. Watts: Yes. I do not believe that any election
22 systems were hacked into. I do not believe that any votes
23 were changed. Their goal was to create the perception there
24 might have been so that they could further drive wedges
25 inside the U.S. electorate.

1 So I definitely want to clarify that. I saw no
2 evidence of it. It was a theme. It was not an actual truth
3 or an action that occurred.

4 Senator Rounds: Thank you.

5 You had one quick response to Senator Blumenthal?

6 Mr. Watts: Yes. I think one of the things that we
7 have gone to in the post-9/11 world is that everyone has to
8 have a security clearance and access to everything.

9 Influence is an open business. I can understand it on
10 the technical side, dealing with hacking and cyber lawyers.
11 But there are two components to this.

12 The other part is just understanding information,
13 social media, and how counter-influence would be done. So
14 that does not require a clearance.

15 It is so much easier for me to track an influence
16 effort for a terrorist group or a nation-state by sitting at
17 my house than it is in the government. I do not need access
18 to classified information to do that part of it.

19 It helps at the higher levels. Obviously, you need
20 some program managers, your key decision-makers, to be able
21 to see both sides of it. But we do not need to bring
22 everybody into the government and force them to have a
23 security clearance so they can never look at classified
24 information, which happens quite a bit. I think the goal is
25 we bring in the best talent, and we put them in a place

1 where we still protect our secrets.

2 I do understand your point about Edward Snowden and
3 some of these others. They had clearances. They had access
4 to information they did not need and then stole it. I
5 think, actually, we give them no classified information. I
6 think what we set them on is most of this stuff is happening
7 in the open source.

8 Even the investigations of cyber are happening in the
9 dark web, but that is accessible outside the government. I
10 do think, with our top cyber people that are doing
11 programming, hacking, those sorts of things at the NSA and
12 other intel agencies, then that obviously makes sense, that
13 they be cleared and heavily scrutinized and monitored.

14 Senator Blumenthal: I think that is a really important
15 point. It is a little bit like in my world. I used to be a
16 prosecutor.

17 Our informants do not pass security clearance. Our
18 witnesses often would never even come close to passing a
19 security clearance. But as we used to argue to the jury,
20 not everyone involved in this criminal drug conspiracy is
21 going to be a choir boy. And you can use those folks to
22 ferret out information and to track down -- I mean, not that
23 they are going to be people we recruit from the other side.

24 But, you are right, they do not necessarily -- that is why
25 it is just analogous. It is not an exact comparison.

1 Mr. Watts: I can give you an example of who I would
2 hire right now. I would hire the people who were making
3 fake news leading up to the election. If they are good at
4 making fake news for clicks and getting ad revenue, they
5 would be the first people I would hire to come in and tell
6 me what fake news looks like on the Internet. They know how
7 to make it, so they are the best ones at detecting it.

8 They would be great candidates. And you could go to
9 them and say, oh, by the way, you might have been doing some
10 nefarious things that were not quite right, but you could
11 rectify that by coming on board and telling us about others
12 who are doing something similar to you.

13 Senator Blumenthal: They would probably recognize M.O.
14 of whoever was producing --

15 Mr. Watts: For sure.

16 Senator Blumenthal: -- because they have a pretty good
17 guess as to who was producing.

18 Mr. Watts: Yes.

19 Senator Rounds: Very good.

20 Senator Blumenthal: Thank you, Mr. Chairman. I
21 apologize, but this is a fascinating topic.

22 Senator Rounds: It is. And part of a small
23 subcommittee is that, once in a while, you can take a little
24 leeway. Our goal here is to get results.

25 We are learning, as this is a new subcommittee. And as

1 we get into this new stuff, everything that you are
2 providing us is new information to us.

3 I think the message that most of our members would tell
4 you is that we do not know much about cybersecurity, and
5 what we are trying to do is to learn it and to make good
6 decisions, and that means getting good information.

7 We most certainly appreciate your participation with
8 this subcommittee today.

9 Once again, your full statements will be accepted into
10 the record.

11 Senator Blumenthal, do you have anything else?

12 We will call this meeting adjourned. Thank you.

13 [The information referred to follows:]

14 [Whereupon, at 3:35 p.m., the hearing was adjourned.]

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