

A photograph of Senior Airman Marcel Williams, a Black man wearing sunglasses and a dark shirt, speaking into a microphone at a wooden podium. The background is a bright blue sky with scattered white clouds.

Senior Airman Marcel Williams, 27th Special Operations Wing public affairs broadcaster, speaks at “Gathering for Unity” event at Cannon Air Force Base, New Mexico, June 5, 2020, and shares experiencing racism in his own community (U.S. Air Force/Lane T. Plummer)

Social Media Weaponization

The Biohazard of Russian Disinformation Campaigns

By Sarah Jacobs Gamberini

In a renewed era of Great Power competition, the United States is faced with adversaries engaging across multiple domains without the traditional distinctions of war and peace. America’s

competitors are regularly operating below the threshold that would warrant a military response, including on the information battlefield. The blurred red lines that result from covert information operations waged by foreign actors on the Internet will force a change in how the United States operates and how its society consumes information. Russia used tactics of influence and coercion long before social media

allowed for nearly ubiquitous access to its targets and a prolific capability for controlling a narrative and manipulating the hearts and minds of a population on a range of sensitive societal issues, including public health.

Russia has a long history of seeking to project power and influence while playing with a technological and geopolitical handicap. Given its history and a geographic location with many bordering

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nations, it sees itself as constantly besieged from all sides, but particularly by the West. Since the nadir of Soviet dissolution, Russia has fought to rebalance power and contemporaneously reduce American influence. But without equivalent conventional military might, Russia has turned to other asymmetric advantages to compensate in its competition with the United States. Social media has provided a unique tool kit to manipulate narratives and amplify societal divisions in an effort to weaken the United States in ways previously unimaginable. While Russian weaponization of information is not new the intersection of Russian disinformation, public health crises, and vulnerability to bioevents presents new and troubling homeland and national security threats for the United States.

The United States is diverse, pluralistic, and democratic. These characteristics, its founding principles, are also its strengths as a nation. But to U.S. adversaries, including Russia, they are potential weaknesses to exploit. One strategic goal of Russia's influence operations is to weaken the United States and its allies, which Russia views as operating too close to its sphere of influence, what it refers to as its "near abroad."¹ Time and again, Russia has used familiar influence tactics to spread disinformation in an attempt to weaken U.S. democratic society and defame America's reputation on the world stage.² From Russia's interference in the 2016 Presidential election to spreading hoaxes during the 2020 global pandemic, Russia is exploiting America's divisions with disinformation to amplify discord in the United States and undermine its institutions. As Russia targets issues of public health in this way, there will be tremendous implications for American citizens and the U.S. health system. The world is grappling with an "infodemic" as well as a pandemic, and both require a whole-of-society approach to be successfully addressed.³

Russia Under Siege

Over centuries, Russia has experienced attacks from the Teutonic Knights, Napoleon, and Nazi Germany, and, since the end of the Cold War,

encroachment from the United States and the North Atlantic Treaty Organization (NATO). It views the United States, NATO, and the European Union as committed to weakening Russia, eliminating its sphere of influence, and ensuring sustained U.S.-Western unipolar dominance.⁴ This assessment derives from a strong Russian belief that the United States broke its word that NATO would move "not one inch eastward," as stated by then-U.S. Secretary of State James Baker in the aftermath of the Soviet dissolution.⁵ Russia touts the West's "interference" during the Ukrainian revolution as further evidence that the United States and NATO are meddling too much in its area of influence.⁶ It views this infringement on what it perceives as its near abroad as an unacceptable affront.⁷

Russia sees Western dominance manifested socially and culturally (for example, Western entertainment seeking to replace Russian culture, values, and language), politically (the West fomenting "color revolutions" in Russia and the former Soviet Union), and militarily (the United States geographically encircling Russia with NATO expansion and technologically ringing Russia with missile defenses and bases). Moreover, Russia has long feared it is behind the West in science and technology. Russia has, at times, achieved parity in certain defense platforms but generally struggles to keep pace, thus relying heavily on traditional weapons of mass destruction, such as its substantial nuclear arsenal, to offset U.S. conventional might. Russia similarly lags in technologies for civilian applications. Underlying all this are vast and troubling demographic and health challenges (a declining birth rate and high death rate from unnatural causes, including widespread alcoholism).⁸ These factors have led to Russia viewing itself in a constant state of besiegement and deficiency.

Much of what shapes and propels Russia's worldview today is based on former Prime Minister Yevgeny Primakov's doctrine that rejects the United States as a hegemon and seeks a multipolar world and the reestablishment of Russia as the main regional power in the former Soviet

region.⁹ Since the end of the Cold War, Russia has had to be calculating and creative to balance its economic, military, and technological disadvantages to compete with the United States, maximizing less conventional tools of war, including covert operations within the information domain.

During the Cold War, the Soviet Union used active measures to influence nations in coercive ways distinct from espionage and counterintelligence. Active measures included disinformation, political influence operations, and controlling media and messaging with the goal of discrediting or influencing the West, which are echoed in Russia's modern-day tactics.¹⁰ This type of warfare and other measures below the threshold of actual use of force have been variously referred to in the West as Russia's *asymmetric*, *gray zone*, *hybrid*, or *next-generation warfare*. However, the term *cross-domain warfare* better reflects the current Russian method of shaping the security environment using an integrated approach of all military and nonmilitary devices to achieve its strategic goals.¹¹

In a response to the Arab Spring uprisings, which Russia believed to be incited by the West, General Valery Gerasimov (now chief of the General Staff) publicly discussed how to prevent similar uprisings in Russia. In his speech, Gerasimov cited control of information as central to victory.¹² This speech, which has been overstated as a Russian military doctrine, did describe how Russia should operate simultaneously across multiple domains—military, political, cyber, and information warfare—to achieve strategic goals. In March 2019, Gerasimov spoke on the shift of warfare to the information sphere and labeled information technologies as "one of the most promising types of weapons" to be used covertly "not only against critically important informational infrastructures, but also against the population of a country, directly influencing the condition of a state's national security."¹³

Information is but one aspect of cross-domain warfare. Another important facet of this Russian thinking is the belief that the customary distinction between



Control room operators with Edgewood Chemical Biological Center aboard U.S. Government–owned container ship *MV Cape Ray*, modified and deployed to eastern Mediterranean Sea to dispose of Syrian chemical agents, confirm and record data on current operation at Naval Station Rota, Spain, June 16, 2014 (U.S. Navy/Desmond Parks)

wartime and peacetime no longer exists. These blurred red lines have been demonstrated beyond speeches or doctrine, for instance in Russia’s employment of this malign activity below the U.S. threshold of armed conflict—little green men in Crimea and Eastern Ukraine, “unaffiliated” private military groups in Syria, use of Novichok (a Cold War–era chemical weapon first developed by the Soviet Union) in the United Kingdom, and numerous cyber attacks—and by the nature of cloaked activities, likely many more. Yet Russia has protected itself from military response because attribution and proportionality are thrown into question by their deniability and obfuscation.

Old Influence Operations Playbook, New Media Tools

Russia’s present leaders fear that U.S. advantages in information technology allow Washington and its allies to

undermine Russian social, cultural, and political institutions as part of its broader campaign to ensure Western geopolitical dominance.¹⁴ The Kremlin sees information as a new type of weapon and views all forms of information, across all platforms, as potential sources of power to be weaponized. Russia believes that the West is using all forms of information technology against them—from persistent satellite television and the Internet bombarding Russian citizens with what it views as overtly anti-Russian messages to social media as tools for coordinating activists and provocateurs in uprisings in former Soviet republics. Finally, Russia sees U.S. space, intelligence, surveillance, and reconnaissance, as well as other information technology systems, as networked military capabilities designed to summarily dismantle any opponent slow to adapt.

Russia has responded to this threat of the information age in a number of ways. It is working to create a “Russia only” Internet with aspirations of creating a Russian equivalent of China’s “Great Firewall.”¹⁵ Russian news and propaganda (for example, the state-controlled television network RT and online “news” aggregators such as Sputnik) are beamed in to counter Western cable news.¹⁶ Additionally, until Russia has its own information operations military systems, it holds Western systems at risk both physically (for example, antispace capabilities) and with cyber attacks.¹⁷ Finally, the Russian government’s active Internet presence pervades the social media landscape using large numbers of Russian Web brigades, troll farms, and automated bots to disseminate propaganda and flood hashtags.¹⁸

Coinciding with its view that all information can be leveraged, Russia’s social

media machine is employed to great effect to influence its adversaries and their populations. Russian trolls utilize the power of narratives online, focusing on simple messages targeting a cohesive group so that its message will then be shared and further amplified by foreign targets.¹⁹ They have a keen understanding that strong emotions spread quickly online and that, given the right prompting, people love nothing more than arguing and solidifying entrenched viewpoints.²⁰ As with Soviet active measures, Russia's goals in weaponizing social media are to foment chaos, create distrust in U.S. institutions, and target the preexisting divisions in the country. All this makes it harder for the United States to form a unified response to counter Russia in more traditional domains.

Misinformation and Disinformation Campaigns

Americans are regularly confronted with fake news in many forms from both domestic and foreign sources. There is a spectrum of false content online, from well-meaning friends on Facebook thoughtlessly sharing misinformation they assume to be true to more malevolent and targeted propaganda-like content designed to intentionally confuse and deceive. Therefore, it is important to understand the difference between the terms *disinformation* and *misinformation*. *Disinformation* is the malicious and intentional development and propagation of false information, while *misinformation* is the inadvertent spreading of erroneous content. Russia relies on both. A misinformation campaign, for example, could be employed maliciously by relying on unwitting users to spread false information.

Bill Gates, when asked in 1995 about false information spreading on the then-new “Net,” stated that fake news would be easy to debunk because there would be more people checking the facts and information would be spread from friend to friend, a more trustworthy transaction.²¹ But as we now know, it is this very aspect of social media that allows for misinformation campaigns to succeed and for fake news to flourish. Another core challenge

that makes online influence operations so successful is that once information is disseminated and consumed, it is hard to retract it from people's minds. The tools that make social media so useful for connecting, sharing, and organizing are the same tools that allow malign actors to take advantage and manipulate. This fact—paired with a need for fast news without waiting for validating research or fact-checking, the ease of sharing on social media platforms, and the fact that the most divisive topics are deeply emotional (for example, public health and race relations)—makes the United States the perfect target of this type of social media weapon.

Russia's modus operandi for social media exploitation is predictable: Identify a contentious issue, employ bots and trolls on various social media platforms to spread divisive rhetoric, amplify debates, and promote discord.²² One of the most publicized influence operations by Russia was its interference in the U.S. elections in 2016. But Moscow's efforts are broader than elections and exist as part of an ongoing deliberate campaign against the U.S. public. As a diverse, pluralist society, the existence of societal fissures for target are numerous.

In 2019, leaked documents revealed that Russia considered targeting one of America's deepest and oldest fault lines as a nation: race. Documents showed Russia considered training African-Americans in combat and sabotage before returning these individuals to the United States to create a Pan-African state in the southern United States, physically breaking apart the country. The proposal, which was never enacted, intended to “destabilize the internal situation of the [United States].”²³ Russia recognizes that slavery and the resulting centuries-long inequality is the original American sin and the ultimate fissure to be exploited. Russian influence operations were used against African-Americans in advance of the 2016 election,²⁴ and more recently Russia has exploited the Black Lives Matter movement by flooding Twitter hashtags—a technique used to dilute legitimate related content, thus inhibiting the social media platform as a means of

communication during protests.²⁵ It is important to note that Russia's goal is rarely to promote one side of any issue, but to stir the pot and enflame tensions—U.S. self-destruction would be Russia's ideal victory.

Russia's information warfare tactics are a moving target, making them difficult to understand and counter. In June 2020, a large-scale, persistent 6-year-long disinformation campaign out of Russia was exposed. The campaign used new methods for targeting the West and Ukraine on issues ranging from denying Russian doping in international sporting events to the broader praising of Russia and its government and highlighting U.S. and NATO aggression and interference in other countries.²⁶ The campaign was labeled “Secondary Infektion”²⁷ as an homage to Operation Infektion, a Cold War callback to the 1980s disinformation campaign when the Soviet Union employed malicious messaging to sell the conspiracy theory that the U.S. military created the AIDS virus as a tool of war.²⁸ Of particular interest in Russia's methods during Secondary Infektion was the large number of “burner” accounts used for a single misleading tweet and then abandoned. As opposed to previous efforts to build social media accounts with a following, credibility, and trust, this shows Russia's recognition of Americans' media illiteracy, inability to recognize fake news, and unwillingness to research deeper than a single tweet. Few people take the time to seek the source of information, and so far Russia has been proved correct in its hypothesis.²⁹ As much as can be understood about Russia's goals and methods, the inexpensive and ubiquitous nature of social media empowers disinformation efforts to shift and flex to changes in the social media algorithms as needed. It could also release prolific amounts of false and harmful information, which, if only marginally successful, could have an outsized impact.

Amplifying Public Health Debates

Russia clearly recognizes how to identify, exploit, and amplify U.S. political tensions and the Nation's racial wounds



Transportation systems technicians from 452nd Logistic Readiness Squadron prepare 50 pallets of ventilators provided by U.S. Agency for International Development for delivery to Moscow, Russia, at March Air Reserve Base, California, May 19, 2020 (U.S. Air Force/Keith James)

as well as other seams and fissures. Public health is another area of acute debate in the United States, and one that is ideal for Russian targeting. Public health issues are both personal and societal, and therefore any discussion of related topics is often full of emotion and an eagerness to quickly obtain information. Often, people are more trusting of health advice from friends, family, or influencers they trust than impersonal institutions. A National Institutes of Health study found that “in the [United States], eight in ten Internet users search for health information online, and 74 percent of these people use social media.”³⁰ This makes public health issues such as COVID-19 or measles an ideal target for Russian social media weaponization. It is divisive and emotional, and could realistically physically weaken the United States.

The anti-vaccination (anti-vaxxers) movement espouses a belief that

vaccinations are at best unnecessary and at worst cause physical harm, including autism and seizures. The movement is fueled by a deep mistrust of authority and the existence of echo chambers online that encourage the spread of misinformation quickly and among friends. All the fake news about vaccines is actually harder to counter due to their amazing success. Diseases such as measles are seen as relics of the past that have long been eradicated and do not touch modern U.S. society. However, the United States is experiencing the greatest number of measles cases since 1992 in parts of the country where a significant percentage of the population has opted out of vaccines.³¹ Vaccines are successful with herd immunity when, depending on how contagious the disease, a certain percentage of the society is vaccinated in order to protect a small number of the society who cannot get vaccines for various reasons (for

example, children, pregnant women, and other vulnerable populations).

For a disease as contagious as measles, herd immunity occurs only if approximately 94 percent of a population is vaccinated; even a small change in vaccination numbers could bring back this disease, declared eliminated in the United States in 2000.³² The result of erroneous fear-mongering about vaccines is a society that is physically degraded by previously eliminated diseases.³³ And now that the world grapples with the novel coronavirus causing COVID-19, large pockets of society are loathe to be told how to protect themselves and their communities. If Americans are rebelling against the science that underlies why masks and physical distancing are good preventative measures, it is foreseeable that there will be skepticism over a vaccine once it is available. The United States has been lulled into a false sense of security due to the very success of vaccines.

These public health crises would be atrocious enough without attempts by foreign adversaries to exacerbate them. The *Journal of Public Health* uncovered that the same Russian Internet Research Agency—led by Yevgeny Prigozhin (a close friend of Russian President Vladimir Putin) and indicted in Robert Mueller’s investigation report on Russian election interference—was also behind deploying bots and trolls to spread disinformation on vaccinations.³⁴ In its analysis, the journal article notes that Russian bots and trolls tweeted an equal number of pro- and anti-vaccine tweets. The goal, it seems, was to stir the debate and bring people into their corners, further entrenching their own viewpoints. Russia’s goal is to amplify and normalize the debate and firmly cement divisions. The health repercussions that result from a normalized vaccination debate were unlikely Russia’s primary goal—merely a byproduct—but the fact that Russia could so callously degrade the health of U.S. citizens as a secondary effect of its influence operations is egregious. Given the ties to the Russian president, it presents further concerns about how this campaign may be endorsed by the state and what that means for how the United States responds. Deniability, however, is the crux of Putin’s success in this area.

Russia has similarly used its predictable tactics against the United States to stoke fear and chaos and to undercut the U.S. response during the COVID-19 pandemic. False narratives spread by Russian state media, trolls, and bots range from conspiracy theories that the virus was variously created by migrants, as a U.S. bioweapon, or to benefit the U.S. pharmaceutical companies, or that the virus itself is a hoax.³⁵ Furthermore, China’s disinformation use—which has historically been focused on domestic propaganda and creating the narrative that China and its authoritarian government are benevolent and powerful—has borrowed from Russia’s influence operations playbook during the pandemic, moving from its initial propaganda-type response downplaying and denying the disease to all-out conspiracy theories and disinformation, including that the virus

was brought to Wuhan by the U.S. Army during Olympics-style military games in 2019.³⁶ This adds to concerns that Russia’s influence operations are attractive to other U.S. adversaries and will continue to be a prime method of attack from multiple actors.

These attacks on public health present a threat to homeland and national security. The anti-vaxxer movement risks increasing U.S. vulnerability to infectious diseases. Looking forward to how these same tactics may be used against a COVID-19 vaccine once it is available, we must consider the implications of malignant messaging about vaccines from both domestic and foreign sources. Beyond propagating doubt in U.S. institutions (for example, hospitals/testing and government organizations such as the Centers for Disease Control and Prevention), these campaigns result in doubt of basic science (for example, people not wearing masks and possibly not trusting a future vaccine). By amplifying public health debates and not advocating for one side, Russia has helped normalize a previously fringe discussion rejecting basic science underlying vaccines and disease prevention. U.S. health institutions are faced with a crisis of trust as scientific facts about these contagious diseases are degraded by both intentional and inadvertent lies.

There are longer term effects of amplifying the anti-vaxxer movement. Beyond the health and institutional concerns, there are also costs to the U.S. health system, as well as costs associated with quarantining. The movement is a distraction for healthcare professionals who are overburdened in this crisis as it is, and for local, state, and Federal governments that must devote time and resources to countering this false information. Furthermore, natural or intentional biothreats (including natural biothreats exacerbated by foreign adversary messaging) could potentially inhibit the military’s ability to project power abroad. The pandemic has shown how vulnerable forces are to contracting diseases such as COVID-19, and there is renewed awareness of this threat by our adversaries.³⁷ The United States has

also relied on the military to help with expanded hospital bed capacity at home, all of which stretches resources and in theory means fewer forces deployed.³⁸

If anti-vaxxers grow in number and/or influence, this could weaken the U.S. ability to respond to any type of biological threat—natural or human-made. Bioweapons of the future are less likely to be those agents historically weaponized and will likely target civilian populations. Biological agents have always been difficult to weaponize because of the quantity and dissemination needed to have widespread, mass impact. As the large-scale programs of the Cold War gave way to the terrorist threat, the biothreat scenario of a biological agent-filled test tube dropped in a subway has been overtaken by disturbing real-world pandemic scenarios.

Russia and other U.S. adversaries are certainly noting U.S. vulnerabilities in its response to the coronavirus. All this presents renewed concerns of a future biological weapon, the effects of which could be further enabled by information warfare. These indiscriminate information attacks on public health reveal how Russia will exploit any divisions within the United States, even to the point of wreaking public health havoc. These attacks on public health highlight the type of ruthless adversary the United States faces. At a certain point, the United States must contemplate whether this interference in its public health is a biothreat caused by a foreign adversary.

Countering the Influence of Influence Operations

Asymmetric warfare is being waged against the United States and its citizens daily across multiple platforms and with expanded notions of what constitutes acceptable warfare. Though the effects of Russia’s information operations on health matters are grave, we have not yet codified these societal attacks as warfare, and therefore they do not rise to the level of military response. The United States requires a comprehensive, whole-of-government solution to counter these actions as well as a whole-of-society awareness to be part



Berkut (Ukrainian riot police) man checkpoint at entrance to Crimean Peninsula, March 10, 2014 (Courtesy Sasha Maksymenko)

of the solution. Governments and companies could raise barriers to make the efforts harder, and people could be better informed on how to identify misinformation and disinformation, thereby making it less effective. The combined effects could lead to reducing Russia's influence, if not deterring it altogether. The solution will be complex, at all levels of society, and it begins and ends with an informed public with high media literacy.

Government can help but cannot alone solve the problem of disinformation any more than it can solely solve public health challenges. The 2020 National Defense Authorization Act called for the Director of National Intelligence to create a Malign Foreign Influence Response Center to coordinate and integrate across the Intelligence Community on issues of foreign influence; as of this writing, this center has not yet been established

as authorized.³⁹ In the past, there has been work to counter Russian messaging in pockets of the U.S. Government, but it has often been limited to addressing overt propaganda rather than the low-level guerrilla exploitation of social media we face today. During the Cold War, the U.S. Active Measures Working Group was established not only to counter Soviet disinformation but also to sensitize societies to be able to recognize Russian interference for themselves.⁴⁰ It would seem this type of whole-of-government commitment to countering disinformation would be timely to revive, perhaps in the form of the Malign Foreign Influence Response Center. Even so, it would not be enough on its own and certainly not with intelligence-only participation. The Department of State's Global Engagement Center is doing its part to identify, expose, and counter disinformation, but without higher visibility by U.S.

citizens and the Nation's adversaries, it cannot be fully successful.⁴¹

One of the most effective things that the U.S. Government could do to counter disinformation is practice consistent messaging and, in the case of disinformation and public health, deliver a consistent, science-based message. During the aftermath of the attempted assassination of Sergei Skripal in the United Kingdom using Novichok, Russia put out hundreds of conflicting narratives to confuse, deflect, and deny its involvement. The United Kingdom, rather than play whack-a-mole by attempting to disprove each falsehood, put out a consistent, science-based message that helped reveal the lies and inconsistencies within the Russian messaging.⁴²

Furthermore, the United States must call out Russia for its cross-domain misdeeds, including in the area of information operations. The United States

must respond directly to these threats through targeted sanctions, international condemnation in multilateral forums, and other asymmetric responses. Despite Russia's attempts at deniability of its role in these campaigns, the United States and its allies should present evidence in a forum such as the United Nations Security Council to show the links between these bad actors and the Russian government. Because of Russia's veto on the Security Council, no resolutions would be passed, but this high-visibility action would highlight to the world Russia's malign activities and perhaps rally support of other nations around stopping this bad actor. The United States needs to assess Russia's actions not only by its methods but also by its effects. If Russia's social media meddling results in a physically weakened society, even inadvertently, the United States must consider treating these actions as more akin to a bioattack than to a cyber attack.

Industry partners would play an important role in the solution. Silicon Valley, the home of the platforms on which this misinformation and disinformation spreads, struggles with balancing the hazards of fake news with freedom of speech and shareholder pressure and therefore has not done nearly enough to combat the information warfare waged on social media sites. As a democratic society, we will not be able to shut down this threat but rather must accept that this false content exists and focus on empowering companies and users to identify and expose this content. In the midst of COVID-19, Twitter implemented a new system to identify and draw attention to articles and posts that may be considered dangerous or spreading disproven information. In June 2020, Twitter slapped a fact-check on Chinese Ministry of Foreign Affairs official Lijian Zhou's tweet advertising a bioweapon conspiracy theory. While this social media policing is fraught with censorship and free speech concerns and a "whack-a-troll" approach is inefficient, it is a good first step to draw users' attention to the reality that all tweets, even from verified accounts, must be read with a healthy dose of skepticism.⁴³

As social media continues to evolve into more visual platforms including TikTok, it will be important to flag manipulated media such as artificial intelligence-enabled deepfakes. Though it presents a great challenge, as the technology to create believable deepfakes improves, so does the technology to counter it. Tech companies are investing in methods that reveal clues for when an image has been altered, such as water droplets on an image, a tell-tale sign of media manipulation.⁴⁴ There are also algorithms to assess when the title of an article does not match the content, which could then alert users and discourage them from sharing misleading information based on the title alone.⁴⁵ Incorporating these technologies into social media platforms to flag manipulated media before it is shared further would both slow the spread of false information and help create a society with a healthy level of skepticism and improved media literacy. To maintain freedom to access all information, we must ensure users have the tools they need to help recognize and counter disinformation.

The most important change that must happen to effectively counter Russian disinformation is an educated and empowered U.S. population capable of identifying and discrediting Russian disinformation. Deterrence will not work to stop or slow Russia's disinformation efforts; the United States should therefore focus on inoculating the population against Russia's attempts to influence the information domain. A challenge of countering disinformation during a public health crisis is balancing the need for a media-literate society that is highly attuned to detect false information, while inherently trusting institutions in equal measure. The United States must invest in media literacy and instill an awareness of the methods and goals of these targeted campaigns. In addition to making the public aware of Russia's role in these targeted information attacks, Americans must assess other fissures in U.S. society that might be targeted in this manner in the future.

Russia's theory of the United States is that its diversity is its weakness. To counter this narrative, the United States must show strength in its pluralism and work as a country to heal the divisions that make it the ideal target for this methodology. Russia is drilling deeper into the preexisting fault lines of American society—distracting, dividing, and weakening. Particularly in the face of the Presidential election and a modern pandemic, all Americans must be vigilant in questioning where information originates and hyperaware of the seams and fissures in American society that are primed for this type of attack. Healing the wounds and divisions of an increasingly polarized nation will go a long way toward protecting the United States from Russia's social media weaponization. JFQ

Notes

¹ Roy Godson, *Disinformation: A Primer in Russian Active Measures and Influence Campaigns*, Hearing Before the Select Committee on Intelligence of the U.S. Senate, 115th Cong., 1st sess., 2017, available at <www.intelligence.senate.gov/sites/default/files/hearings/S%20Hrg%20115-40%20Pt%201.pdf>.

² Adam Taylor, "Did Russia Interfere in Brexit? An Unpublished Report Roils UK Politics Before Election," *Washington Post*, November 5, 2019, available at <www.washingtonpost.com/world/2019/11/05/did-russia-interfere-brexit-an-unpublished-report-roils-uk-politics-before-election/>; Filippa Lentzos, "The Russian Disinformation Attack That Poses a Biological Danger," *Bulletin of the Atomic Scientists*, November 19, 2018, available at <<https://thebulletin.org/2018/11/the-russian-disinformation-attack-that-poses-a-biological-danger/>>; Robert S. Mueller III, *Report on the Investigation into Russian Interference in the 2016 Presidential Election*, vols. I and II (Washington, DC: Department of Justice, March 2019), available at <www.justice.gov/storage/report.pdf>.

³ Tedros Adhanom Ghebreyesus, speech delivered to the Munich Security Conference, Munich, Germany, February 15, 2020, available at <www.who.int/dg/speeches/detail/munich-security-conference>.

⁴ Godson, *Disinformation*.

⁵ Svetlana Savranskaya and Tom Blanton, *NATO Expansion: What Gorbachev Heard* (Washington, DC: National Security Archive, 2017), available at <<https://nsarchive.gwu.edu/briefing-book/russia-programs/2017-12-12/nato-expansion-what-gor>>.



Marines fire 81mm mortar during training in support of Operation *Inherent Resolve* in Hajin, Syria, August 4, 2018 (U.S. Air Force/Corey Hook)

bachev-heard-western-leaders-early>.

⁶ *Ukraine: Background, Conflict with Russia, and U.S. Policy*, R45008 (Washington, DC: Congressional Research Service, April 29, 2020), available at <<https://fas.org/sgp/crs/row/R45008.pdf>>.

⁷ Gerard Toal, *Near Abroad: Putin, the West, and the Contest Over Ukraine and the Caucasus* (New York: Oxford University Press, 2017).

⁸ David M. Adamson and Julie DaVanzo, *Russia's Demographic 'Crisis': How Real Is It?* (Santa Monica, CA: RAND, 1997), available at <www.rand.org/pubs/issue_papers/IP162.html>; Cheney Kalinich, "Russia: The Sickness of a Nation," *The Yale Global Health Review* (Fall 2016), available at <<https://yaleglobal-healthreview.com/2016/12/21/russia-the-sickness-of-a-nation/>>.

⁹ Eugene Rumer, *Primakov (Not Gerasimov) Doctrine in Action* (Washington, DC: Carnegie Endowment for International Peace, 2019), available at <<https://carnegieendowment.org/2019/06/05/primakov-not-gerasimov-doctrine-in-action-pub-79254>>.

¹⁰ Bureau of Public Affairs, *Soviet "Active Measures": Forgery, Disinformation, Political Operations*, Special Report No. 88 (Washington, DC: Department of State, 1981), available at <<https://www.cia.gov/>

[library/readingroom/docs/CIA-RDP-84B00049R001303150031-0.pdf](https://www.cia.gov/library/readingroom/docs/CIA-RDP-84B00049R001303150031-0.pdf)>.

¹¹ Dmitry Adamsky, "Strategic Stability and Cross-Domain Coercion: The Russian Approach to Information (Cyber) Warfare," in *The End of Strategic Stability? Nuclear Weapons and the Challenge of Regional Rivalries*, ed. Lawrence Rubin and Adam N. Stulberg (Washington, DC: Georgetown University Press, 2018).

¹² Mark Galeotti, "The 'Gerasimov Doctrine' and Russian Non-Linear War," in *Moscow's Shadows*, 2013, available at <<https://inmoscowsshadows.wordpress.com/2014/07/06/the-gerasimov-doctrine-and-russian-non-linear-war/>>; Valery Gerasimov, "The Value of Science in Prediction," *Voenno-Promyshlenni Kurier* 26, no. 840 (February 26, 2013), available at <www.vpk-news.ru/articles/14632>.

¹³ Valery Gerasimov, trans. Harold Orenstein and Timothy Thomas, "The Development of Military Strategy Under Contemporary Conditions: Tasks for Military Science," *Military Review* (October 2019), available at <www.armyupress.army.mil/Journals/Military-Review/Online-Exclusive/2019-OLE/November/Orenstein-Gerasimov/fbelid/IwAR18VUoZTZ15KB7AvBVyPEAQcQo5w-5myuuyMQPRqQ5qogem5JDR5PjsLCmA/>.

¹⁴ Carolina Vendil Pallin, "Internet Control Through Ownership: The Case of Russia," *Post Soviet Affairs* 33, no. 1 (2017).

¹⁵ Jane Wakefield, "Russia 'Successfully Tests' Its Unplugged Internet," BBC, December 24, 2019, available at <www.bbc.com/news/technology-50902496>.

¹⁶ Steven Erlanger, "Russia's RT Network: Is It More BBC or KGB," *New York Times*, March 8, 2017, available at <www.nytimes.com/2017/03/08/world/europe/russias-rt-network-is-it-more-bbc-or-kgb.html>; Nathan Layne, "U.S.-Based Russian News Outlet Registers as Foreign Agent," Reuters, February 7, 2018, available at <www.reuters.com/article/us-usa-trump-russia-propaganda/u-s-based-russian-news-outlet-registers-as-foreign-agent-idUSKCN1G201H>.

¹⁷ "Russia Tests Direct-Ascent Anti-Satellite Missile," *U.S. Space Command Public Affairs*, April 16, 2020; Michael Connell and Sarah Vogler, *Russia's Approach to Cyber Warfare* (Arlington, VA: CNA, September 2016), available at <<https://apps.dtic.mil/dtic/tr/fulltext/u2/1019062.pdf>>.

¹⁸ David Lee, "The Tactics of a Russian Troll Farm," BBC, February 16, 2018, available at <www.bbc.com/news/technology-43093390>.

¹⁹ Elizabeth Townsend, *Understanding*

Narratives for National Security: Proceedings of a Workshop (Washington, DC: The National Academies Press, 2018), available at <www.nap.edu/read/25119/chapter/1>.

²⁰ Matthew Shaer, “What Emotion Goes Viral the Fastest?” *Smithsonian Magazine*, April 2014, available at <www.smithsonianmag.com/science-nature/what-emotion-goes-viral-fastest-180950182/>.

²¹ Tom Huddleston, Jr., “In 1995, Bill Gates Made These Predictions About Streaming Movies and Fake News on the Internet,” CNBC, May 31, 2019, available at <www.cnbc.com/2019/05/31/bill-gates-1995-predictions-about-streaming-movies-fake-news.html>; Bill Gates and Terry Pratchett, “GQ&A: Bill Gates Talks to Terry Pratchett About the Future, the Microsoft Revolution and How to Become a Billionaire,” *GQ*, July 1995.

²² *The War on Pineapple: Understanding Foreign Interference in 5 Steps* (Washington, DC: Department of Homeland Security, 2019), available at <www.dhs.gov/sites/default/files/publications/19_0717_cisa_the-war-on-pineapple-understanding-foreign-interference-in-5-steps.pdf>.

²³ Richard Engel, Kate Benyon-Tinker, and Kennett Werner, “Russian Documents Reveal Desire to Sow Racial Discord—and Violence—in the U.S.,” NBC, May 20, 2019, available at <www.nbcnews.com/news/world/russian-documents-reveal-desire-sow-racial-discord-violence-u-s-n1008051>.

²⁴ Scott Shane and Sheera Frenkel, “Russian 2016 Influence Operation Targeted African-Americans on Social Media,” *New York Times*, December 17, 2018, available at <www.nytimes.com/2018/12/17/us/politics/russia-2016-influence-campaign.html>.

²⁵ Mark Scott, “Russia and China Target U.S. Protests on Social Media,” *Politico*, June 1, 2020, available at <www.politico.eu/article/russia-china-us-protests-social-media-twitter/>.

²⁶ *Secondary Infektion at a Glance*, 2020, available at <<https://secondaryinfektion.org/report/secondary-infektion-at-a-glance/>>.

²⁷ Ben Nimmo et al., *Graphika: Secondary Infektion*, 2020, available at <<https://secondaryinfektion.org/downloads/secondary-infektion-report.pdf>>.

²⁸ Thomas Boghardt, “Operation INFEKTION: Soviet Bloc Intelligence and its AIDS Disinformation Campaign,” *Studies in Intelligence* 53, no. 4 (December 2009), available at <<https://www.cia.gov/library/center-for-the-study-of-intelligence/csi-publications/csi-studies/studies/vol53no4/pdf/U-%20Boghardt-AIDS-Made%20in%20the%20USA-17Dec.pdf>>.

²⁹ Lance E. Mason, Dan Krutka, and Jeremy Stoddard, “Media Literacy, Democracy, and the Challenge of Fake News,” *Journal of Media Literacy Education* 10, no. 2 (2018), available at <<https://digitalcommons.uri.edu/jmle/vol10/iss2/1/>>.

³⁰ C. Lee Ventola, “Social Media and Health Care Professionals: Benefits, Risks and

Best Practices,” *Pharmaceutical and Therapeutics Journal* 39, no. 7 (July 2014), available at <www.ncbi.nlm.nih.gov/pmc/articles/PMC4103576/>.

³¹ Centers for Disease Control and Prevention (CDC), “Measles Cases and Outbreaks,” available at <www.cdc.gov/measles/cases-outbreaks.html>.

³² Sebastian Funk, *Critical Immunity Thresholds for Measles Elimination* (London: Centre for the Mathematical Modelling of Infectious Diseases, October 19, 2017), available at <www.who.int/immunization/sage/meetings/2017/october/2_target_immunity_levels_FUNK.pdf?ua=1>.

³³ CDC, “Measles History: Measles Elimination,” 2018, available at <www.cdc.gov/measles/about/history.html>.

³⁴ David A. Broniatowski et al., “Weaponized Health Communication: Twitter Bots and Russian Trolls Amplify the Vaccine Debate,” *American Journal of Public Health* (October 2018), available at <<https://ajph.aphapublications.org/doi/10.2105/AJPH.2018.304567>>.

³⁵ Judy Twigg, “Coronavirus in Russia: How Putin’s Disinformation Efforts Could Backfire at Home,” *Bulletin of the Atomic Scientists*, March 31, 2020, available at <<https://thebulletin.org/2020/03/coronavirus-in-russia-how-putins-disinformation-efforts-could-backfire-at-home/>>.

³⁶ Chris Buckley and Steven Lee Myers, “As New Coronavirus Spread, China’s Old Habits Delayed Fight,” *New York Times*, February 1, 2020, available at <www.nytimes.com/2020/02/01/world/asia/china-coronavirus.html>; Steven Lee Myers, “China Spins Tale that the U.S. Army Started the Coronavirus Epidemic,” *New York Times*, March 13, 2020, available at <www.nytimes.com/2020/03/13/world/asia/coronavirus-china-conspiracy-theory.html>; Department of Defense, “7th International Military Sports Council: Military World Games,” 2019, available at <www.defense.gov/Explore/Spotlight/CISM-Military-World-Games/>; Sarah Jacobs Gamberini and Amanda Moodie, “The Virus of Disinformation: Echoes of Past Bioweapons Accusations in Today’s COVID-19 Conspiracy Theories,” *War on the Rocks*, April 6, 2020, available at <<https://warontherocks.com/2020/04/the-virus-of-disinformation-echoes-of-past-bioweapons-accusations-in-todays-covid-19-conspiracy-theories/>>.

³⁷ Daniel C. Payne et al., “SARS-CoV-2 Infections and Serological Responses from a Sample of U.S. Navy Service Members—USS Theodore Roosevelt, April 2020,” *Morbidity and Mortality Weekly Report* (Washington, DC: CDC, June 12, 2020), available at <www.cdc.gov/mmwr/volumes/69/wr/mm6923e4.htm>.

³⁸ Geoff Ziezulewicz, “The USNS *Comfort* Is Now Taking Covid-19 Patients. Here’s What to Expect,” *New York Times*, April 8, 2020, available at <www.nytimes.com/2020/04/08/magazine/hospital-ship-comfort-new-york-coronavirus.html>; Gamberini and Moodie, “The Virus of Disinformation.”

com/2020/04/08/magazine/hospital-ship-comfort-new-york-coronavirus.html>; Gamberini and Moodie, “The Virus of Disinformation.”

³⁹ National Defense Authorization Act for Fiscal Year 2020, 116th Cong., § 1790, January 3, 2019, available at <www.intelligence.senate.gov/legislation/damon-paul-nelson-and-matthew-young-pollard-intelligence-authorization-act-fiscal-19>; Amy Klobuchar et al., “Letter to Secretary Esper, Director Ratcliffe, Director Wray, General Nakasone, and Acting Secretary Wolf,” U.S. Senate, 2020, available at <www.klobuchar.senate.gov/public/_cache/files/1/d/1d99087e-0a26-4242-a0cf-a5867d208a18/D1FD0C7DAF35260CBB-3D51CAB10A3324.062620disinformationletter.pdf>.

⁴⁰ Fletcher Schoen and Christopher J. Lamb, *Deception, Disinformation, and Strategic Communications: How One Interagency Group Made a Major Difference*, Strategic Perspectives 11 (Washington, DC: NDU Press, 2012), available at <<https://ndupress.ndu.edu/Portals/68/Documents/stratperspective/inss/Strategic-Perspectives-11.pdf>>.

⁴¹ Department of State, “Global Engagement Center,” 2020, available at <www.state.gov/bureaus-offices/under-secretary-for-public-diplomacy-and-public-affairs/global-engagement-center/>.

⁴² Tom McTague, “Britain’s Secret War with Russia,” *The Atlantic*, December 3, 2019, available at <www.theatlantic.com/international/archive/2019/12/britain-russia-nato-disinformation/602836/>.

⁴³ Nina Jankowicz, “Russian Trolls Are Only Part of the Problem,” *New York Times*, January 25, 2018, available at <www.nytimes.com/2018/01/25/opinion/russian-trolls-fake-news.html>.

⁴⁴ Fijoy Vadakkumpadan and Ye Liu, *Detecting Deepfakes and Disinformation* (Cary, NC: SAS, 2020).

⁴⁵ *Ibid.*