

# AGENDA

- WHOIS
- The Primer
- The Information Environment
- Cyber & The Information Environment
- Information Environment Challenges
- Examples "Ripped" from the Headlines
- IE Parting Thoughts

# WHOIS: Brad Rhodes

#### TLDR:

- Deputy Director for Operations, Energy Threat Analysis Center (ETAC)
   Office of Cybersecurity, Energy Security, and Emergency Response (CESER), Department of Energy (DOE)
- COL, Cyber (17A), 63<sup>rd</sup> Readiness Division, G6/CIO
- Military Cyber Professionals Association, HammerCon Co-Lead
- Speaker, Author, Professor, Coach
- #toomany Pro-Certs, highlights: CISSP-ISSEP, CISM, CDPSE, PMP, CEH, GMON, GCIH, Cloud+, CySA+
- Extra Class Amateur Radio (HAM): KG4COS

Feel free to view/listen/grab my previous presentation/articles here: <a href="https://github.com/cyberguy514">https://github.com/cyberguy514</a>











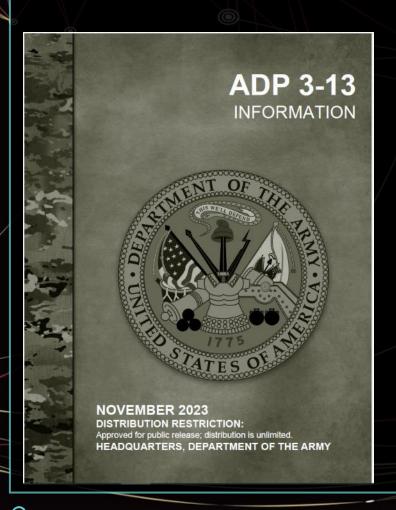


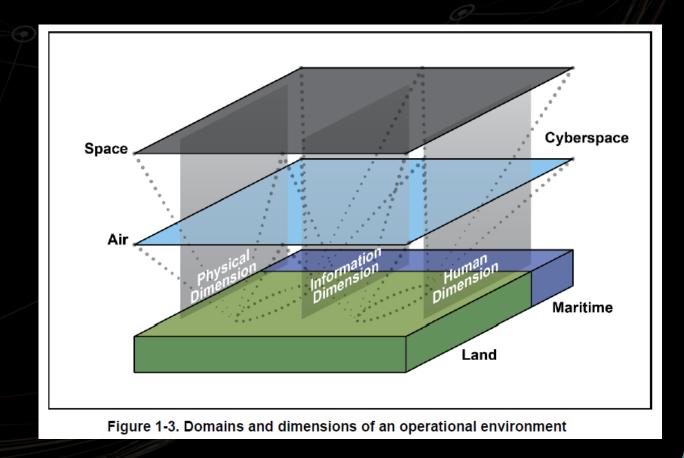


### THE PRIMER

We live in a world dominated by **information**. Unfortunately, that information is under assault every day and we can no longer necessarily trust what we see and hear (throw in AI / Machine Learning and all bets are off). Within the cyber domain and the broader information environment it is critical to understand how and why information is **manipulated**, threat actor **intent(s)** when it comes to information, and finally how to educate our users. Let's have a conversation about advanced threat actors who are now starting their information attack sequences using our personal emails and text messages. As threat actors continue to look for novel approaches impact our organizations, we need tactics to ensure everyone from leadership to the frontline workers understand risks they face.

# THE INFORMATION ENVIRONMENT





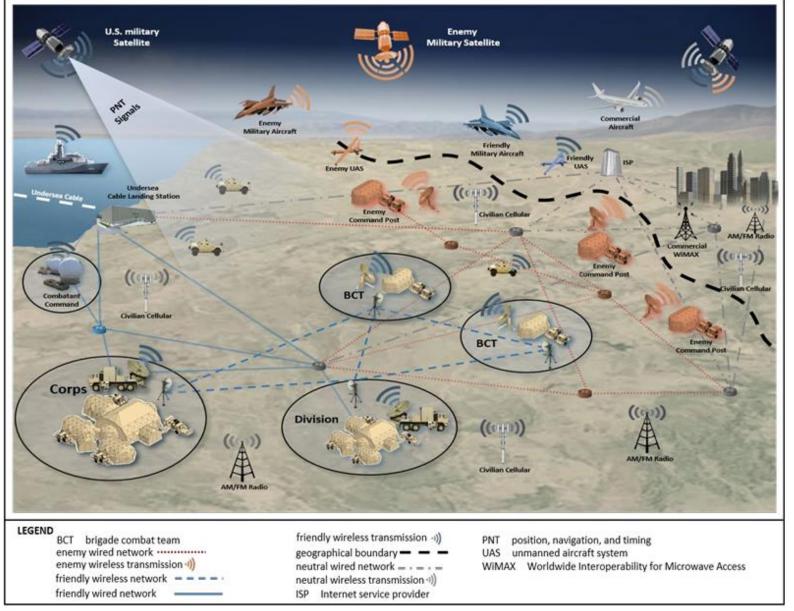


Figure 1-4. Congestion in cyberspace and the electromagnetic spectrum

# CYBER & THE INFORMATION ENVIRONMENT

Legend

CMNT

MCIS



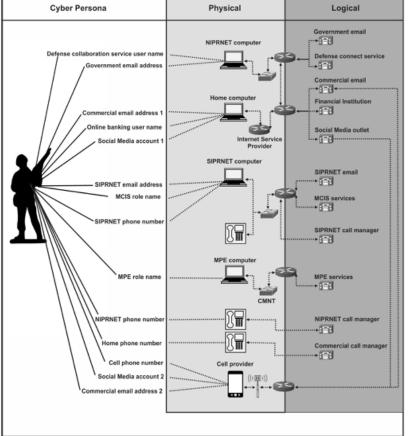


Figure 1-2. Relationship between the cyberspace network layers

common mission network transport

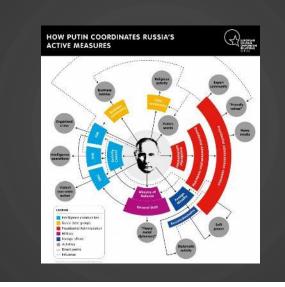
mission command information system mission partner environment

Non-classified Internet Protocol Router Network

# INFORMATION ENVIRONMENT (IE) CHALLENGES

- States Controlling Information & Access
- Election Interference
- The "New" Electronic Warfare Frontier
- Kimsuky and the Scientists
- The TikTok Ban & China's Campaign to Stop It
- Deep Fakes & AI/ML













# Imposter Accounts Flood Twitter to Drown Out Criticism of the PRC

As of August 2023, at least 265 accounts are targeting @SafeguardDefend in a coordinated information manipulation operation































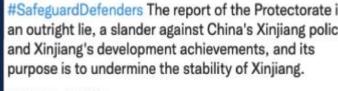


#SafeguardDefenders The report of the Protectorate is an outright lie, a slander against China's Xinjiang policy and Xinjiang's development achievements, and its purpose is to undermine the stability of Xinjiang.



and Xiniiang's development achievements, and its

purpose is to undermine the stability of Xinjiang.





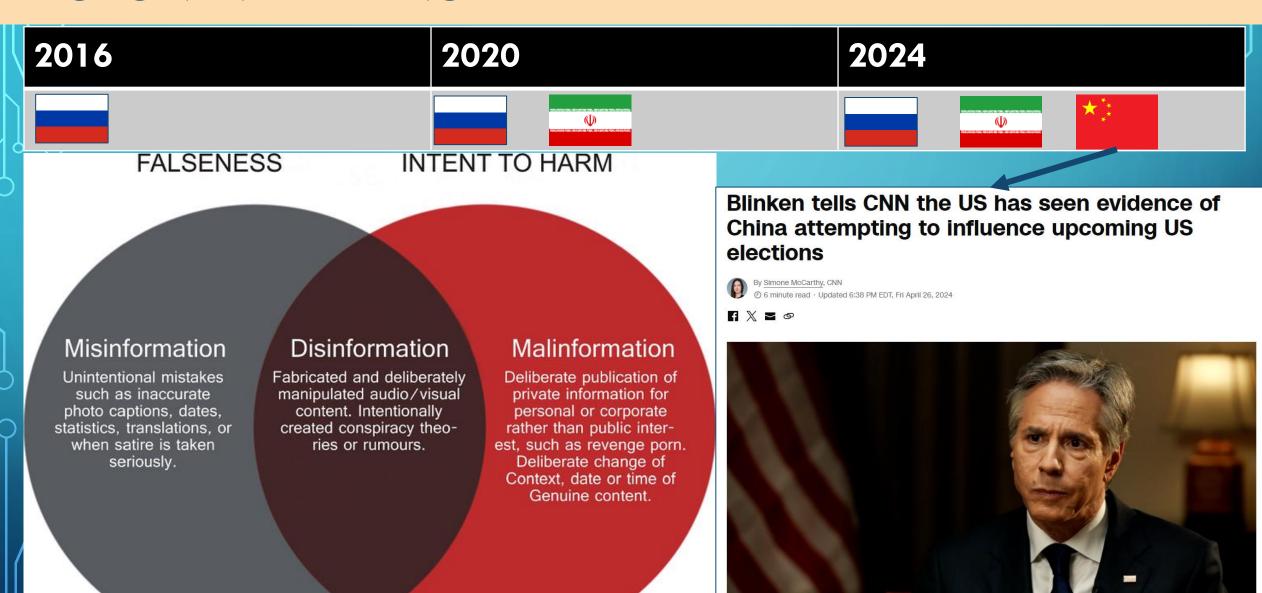




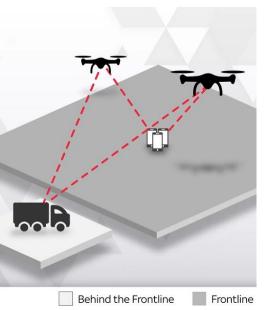
10:12 AM - Nov 7, 2022

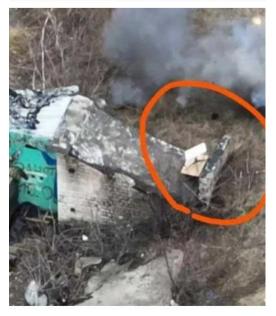


# **ELECTION INTERFERENCE**











RF Open Attack Surface in today's wi

# THE "NEW" ELECTRONIC WARFARE FRONTIER

#### UKRAINIAN ARMY ORDER

- 1. Leave your own SIM card at home.
- 2. The best place to get a SIM card is in the zone of conflict itself.
- 3. If you plan to make a phone call, walk at least 400-500 m away from squad positions.
- 4. Don't walk away alone, take an armed friend with you to cover you.
- 5. The best place to make a phone call is in locations with a lot of civilians, preferably in recently liberated towns.
- 6. Always keep your phone off. Your life depends on it. Grad missiles will hit your whole squad.
- 7. Do not accept refill codes or cards from the locals. The young woman that brought you a refill card from the neighbouring village may be working for the enemy. Right now FSB and SBU have to process enormous amounts of data to identify the mobile phones of our own people and of the enemy. Do not make their job easier.
- 8. Watch over your comrades a friend calls his girlfriend and an hour or so later your position gets shelled or attacked.
- 9. Remember, the enemy could be listening to your conversations regardless of which SIM card or which telecom operator you are using.



Uncle Sam says, "Don't Take Your Cell Phone to War!"

# THE "NEW" ELECTRONIC WARFARE FRONTIER

## KIMSUKY AND THE SCIENTISTS



Subject: [Invitation] US Policy Toward North Korea Conference

Dear <name of target expert>,

I hope you and your family are enjoying a lovely holiday and a restful season.

It is my privilege to invite you to provide a keynote address for an private workshop, hosted by the <name of legitimate think tank> to discuss the US policy toward North Korea. Given developments in North Korea since the collapse of US-DPRK and inter-Korean negotiations in

2019, as well as the North Korea is unlik begin crafting a new

We understand you that lunch (12:30- 1 accommodations to available to join in p

Please let me know and logistics right a

All the best,

<name of legitimat

Subject: [<name of legitimate news media outlet>] Questions about N. Korea

Dear <name of target expert>,

I hope this email finds you well. This is <name of legitimate journalist> from <name of legitimate news media outlet>. I'm writing to request that you consider granting us a brief interview.

North Korea is accelerating its sprint towards nuclear armament. After the breakdown of the 2019 Trump-Kim Hanoi Summit, Pyongyang has focused on intensifying North Korean nuclear and missile capabilities while rebuffing calls from the international community to resume denuclearization talks. North Korea has not only attempted to agitate the U.S. by drastically escalating its development of strategic nuclear weapons such as intercontinental ballistic missiles (ICBMs), but also wielded threats against the Republic of Korea and Northeast Asia in the form of tactical nuclear weapons development. Furthermore, in September 2022, North Korean leadership announced a new "law on state policy on nuclear weapons," thereby lowering its threshold for nuclear weapons employment. Among countries that possess or aim to possess nuclear weapons, North Korea is alone jn openly expressing that the use of such weapons lie in national defense and deterrence, but in belligerent employment against any specific country. On this basis, North Korea has continued to openly pressure the Republic of Korea and the international community, and pose a real and present threat to security in the Korean Peninsula and across Northeast Asia.

In connection with this, I would like to get your opinions about some questions. If interested, please respond to this email at your earliest convenience.

Then, I will send you the questions soon. Thanks for your consideration and time.

Best regards,

#### <name of legitimate journalist>

P.S. One thing: my <name of legitimate news media outlet> account will be blocked temporarily soon. So, I will receive the emails on my personal account (<spoofed account of compromised journalist>) for a while. Sorry for troubling you and hope you understand. Thanks in advance.

U.S. DEPARTMENT of STATE

POLICY ISSUES COUNTRIES & AREAS BUREAUS & OFFICES ABOUT

Home > Office of the Spokesperson > Press Releases > U.S. Government Cybersecurity Alert: Democratic People's Republic of Korea (DPRK) Using

New Tactic in Social Engineering Operations

\*\*\*

U.S. Government Cybersecurity Alert: Democratic People's Republic of Korea (DPRK) Using New Tactic in Social Engineering Operations

Tactic in Social Engineering Operations

MEDIA NOTE

**OFFICE OF THE SPOKESPERSON** 

MAY 2, 2024

Missing DMARC policies or DMARC policies with "p=none" indicate that the receiving email server should take no security action on emails that fail DMARC checks and allow the emails to be sent through to the recipient's inbox. In order for organizations to make their policy stricter and signal to email servers to consider unauthenticated emails as spam, the authoring agencies recommend

## TIKTOK BAN + CHINA'S CAMPAIGN TO STOP IT

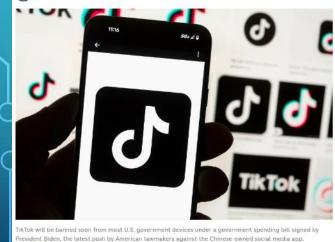
2022

TECHNOLOGY

# Biden approves banning TikTok from federal government phones

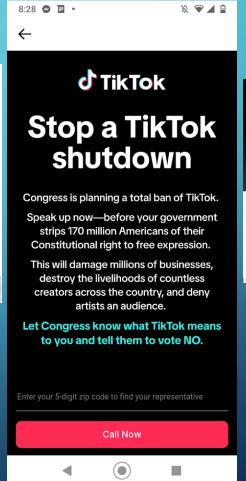
UPDATED DECEMBER 30, 2022 · 12:05 PM ET @



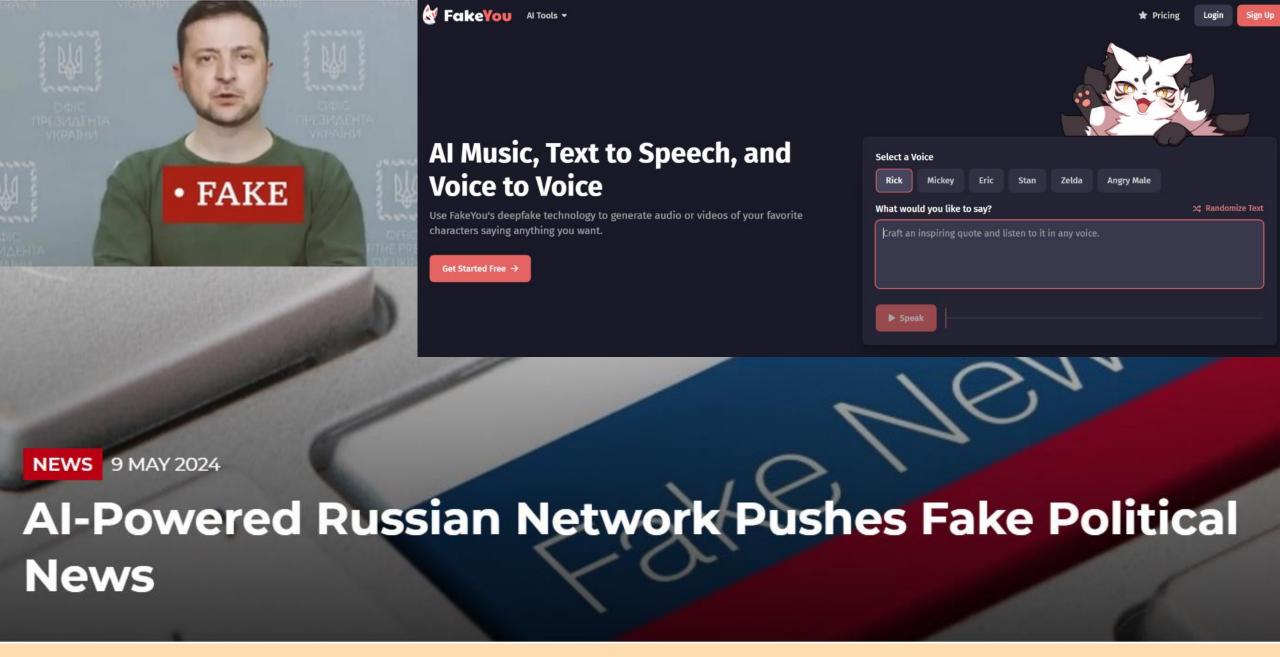


2024





TikTok sues US to block law that could ban the social media platform



# IE PARTING THOUGHTS

- LSCO & DSCA Information as **FIRES**
- In the West: You and your data is the PRODUCT!
  - Elsewhere: You and your data + intellectual property is the TARGET!
- China and Russia leverage the IE for **EFFECTS** in/through cyberspace
- Are you thinking about the IE? In an era where we have may/may not have MASS, it is imperative we win the INFORMATION fight!



# Thank you, Peak Cyber Symposium!

# Q&A&Discuss!

Happy to connect: <a href="https://www.linkedin.com/in/brad-e-rhodes-the-terminal-colonel/">https://www.linkedin.com/in/brad-e-rhodes-the-terminal-colonel/</a>