

# RSA® Conference 2019 Asia Pacific & Japan

Singapore | 16–18 July | Marina Bay Sands

The logo consists of the word "BETTER." in a bold, white, sans-serif font. The letters are partially obscured by a stylized, colorful network of lines and dots that radiate from the bottom right corner of the slide. The colors transition through green, cyan, blue, and magenta.

BETTER.

SESSION ID: FLE1-R03

## Dark Consequences: How New Laws are Impacting the Cyber Threat Landscape

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Cyber Threat Intelligence Analyst  
IntSights Cyber Intelligence  
@CharityW4CTI

#RSAC





# Back to the Future: APAC 2019

- Vietnam, China, Russia, Australia: Internet laws around the world, especially in APAC are creating lasting and permanent changes in the Cyber Threat Landscape
- Nations are isolating their internet blocks and their citizens from access to the globalized internet.
- Isolationism, restrictions, and data privacy laws will drive citizens to the deep and dark web for anonymity, cryptocurrency, and access to otherwise inaccessible information, including crime.

# Blast From the Past: The Internet



**1960's: World Wide Web theory as "ARPAnet"**

**1983: Internet is reality**

**1983: DNS System created**

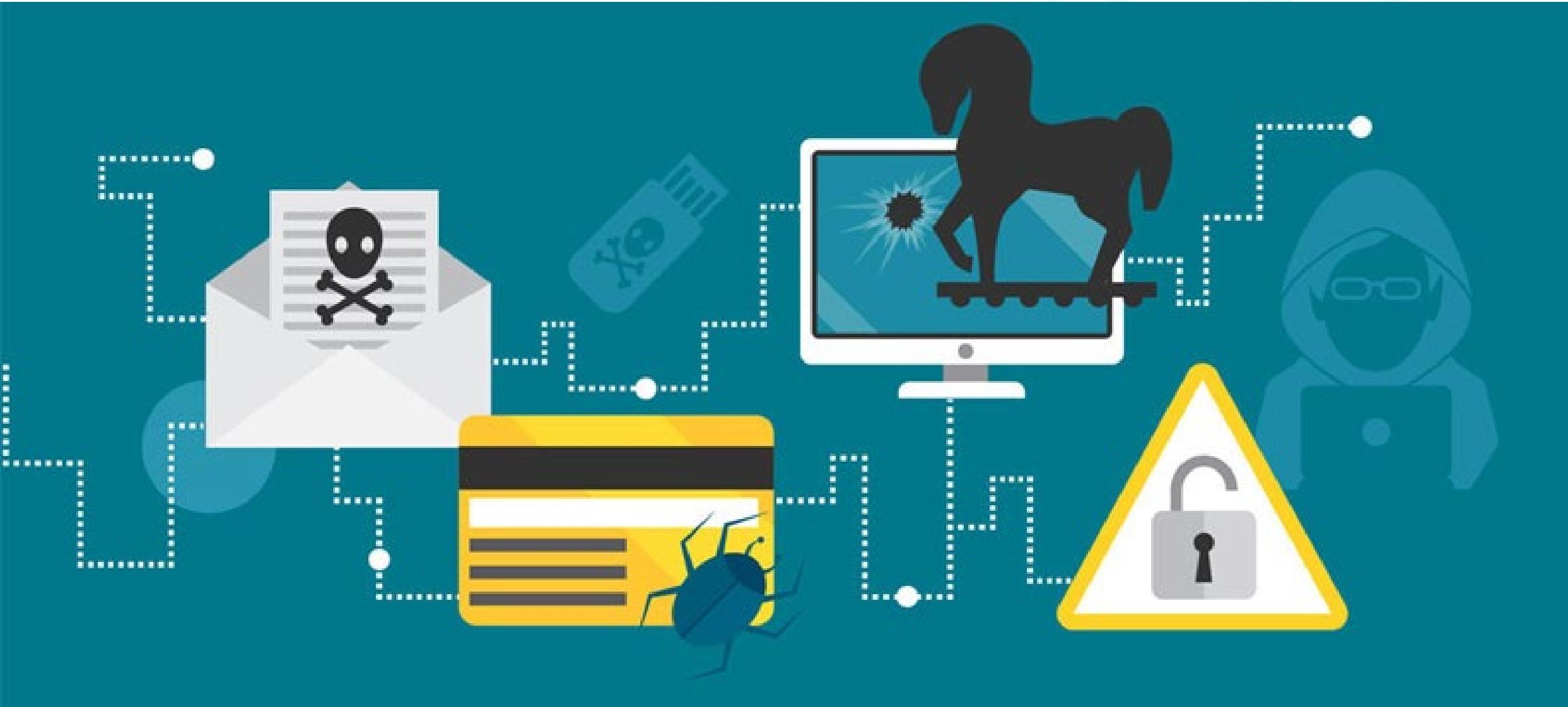
**1985: Symbolics.com is first registered domain**

**1987: Cisco ships first router**

**1990: HTML created**

**1991: Internet goes public!**





The screenshot shows the main page of the HackZone website. At the top, there's a navigation bar with links like 'Territory of Breakthrough', 'About Us', 'Contact', 'Feedback', 'Help', 'Search', and 'Log In'. Below the bar, there's a logo for 'HackZone' and 'WEB RING' with a target icon. A banner below the logo says 'HackZone Web Ring member'. To the left, there's a sidebar with links to 'Law', 'Spy Market', 'Underground', and 'Forums'. The main content area features a message about a new magazine and a small thumbnail of it. On the right, there's a sidebar with links to 'Contest', 'Review', 'Site Collection', 'News', and 'Feedback'. At the bottom, there's a footer with links to 'Club HackZone' and 'Members only'.

## **1997: Russian dark web emerges with hackzone.ru**

Разделы :::

Файлы :: исходное для работы :: Новости

Архив новостей :::

[О нас](#)[Новости](#)[Статьи](#)[Сервисы](#)[Fake ID](#)[FAQ](#)[Использование](#)[Форум](#)[Контакты](#)

Ссылки :::

Разделы ::::

[Новости](#)[Документы](#)[Запросы Информации](#)[Утилиты](#)

Сервисы :::

[Поиск по routing](#)

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[Enter routing](#)

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[Весь сервис...](#)

05.08.2002 | Генераторы DL номеров некоторых штатов | Windows 9x/2k/NT/XP | DOS | размер: 119 Kb | FAQ |

Генераторы номеров водительских удостоверений штатов: Florida, Illinois, New Jersey, Wisconsin ...

[подробнее](#) • [скачать](#) [номеров 214]

05.08.2002 | Socks Proxy Finder 2.0 Build 9.29 | Windows 9x/2k/NT/XP | размер: 27 Kb | FAQ |

Программа для поиска socks-прокси ...

[подробнее](#) • [скачать](#) [номеров 4]25.07.2002 | Proxy Hunter V3.1 Beta | Win 9x/NT/w2k/XP | размер: 331 Kb | [ni69az](#) |

Proxy Hunter - убийца процессов? :)) ...

[подробнее](#) • [скачать](#) [номеров 6]18.07.2002 | Prokomintron v4.3 | Win 9x/NT/w2k/XP | размер: 1136 Kb | [ni69az](#) |

Prokomintron - универсальный фильтр, вырезает все ненужное из просматриваемой страницы, и о нас информации не оставит! ...

[подробнее](#) • [скачать](#) [номеров 6]18.07.2002 | Linux SocksCap v0.1.1 | Linux | размер: 100 Kb | [ni69az](#) |

Linux SocksCap - утилита для перенаправления всех исходящих пакетов через SOCKS сервер, по TCP &amp; UDP протоколам. Теперь и для Linux (!) ...

[подробнее](#) • [скачать](#) [номеров 6]17.07.2002 | xChat v1.8.9 | Win 9x/NT/w2k/XP, \*nix | размер: 629 Kb | [ni69az](#) |

xChat - популярный irc клиент для Unix, но теперь он доступен и для Windows пользователей! ...

[подробнее](#) • [скачать](#) [номеров 6]15.07.2002 | Bouncer v1.0.RC6 | Win 9x/NT/w2k/XP, Linux, FreeBSD, Solaris | размер: 48 Kb | [ni69az](#) [номер: V.I.P.]

Bouncer - маленький socks сервер под любую операционную систему, с громадными возможностями. ...

**Forum**

rules

our team

Online Users

Search

Стартовая страница

Последние темы · Администрация · 18 авторов сегодня · Пукин · 18 авторов

30 тем, за последние 15 минут

В группах, в поисковой и в сертификат поисковой

[Опросы](#) [Учебные темы](#) [Чтение тем](#)

[Логин](#) | [Создавать темы](#) | [Правила](#) | [Помощь](#)

Ранний доступ к: [Быстро к форуму](#), [Форум пользователя](#)

Статистика форума

На форуме 14 488 сообщений  
Зарегистрировано 1 938 пользователей  
Примечательных сообщений на сайте 1234  
Рекорд посещаемости форума - 33, зафиксирован - Июн 7 2008, 13:10

Последние темы

Сейчас: 17th April 2019 22:51

# Cyberwarfare

Disruption

strategy & Groups

Causal

Criminal

decisionmaking

Terrorist

management

Cyberattacks

Centralization

Networks

Damage

Netwars

warfare

operations

hacktivists

Companies

Computers

Cyberspace

Purposes

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intelligence

Nation-state

Actions

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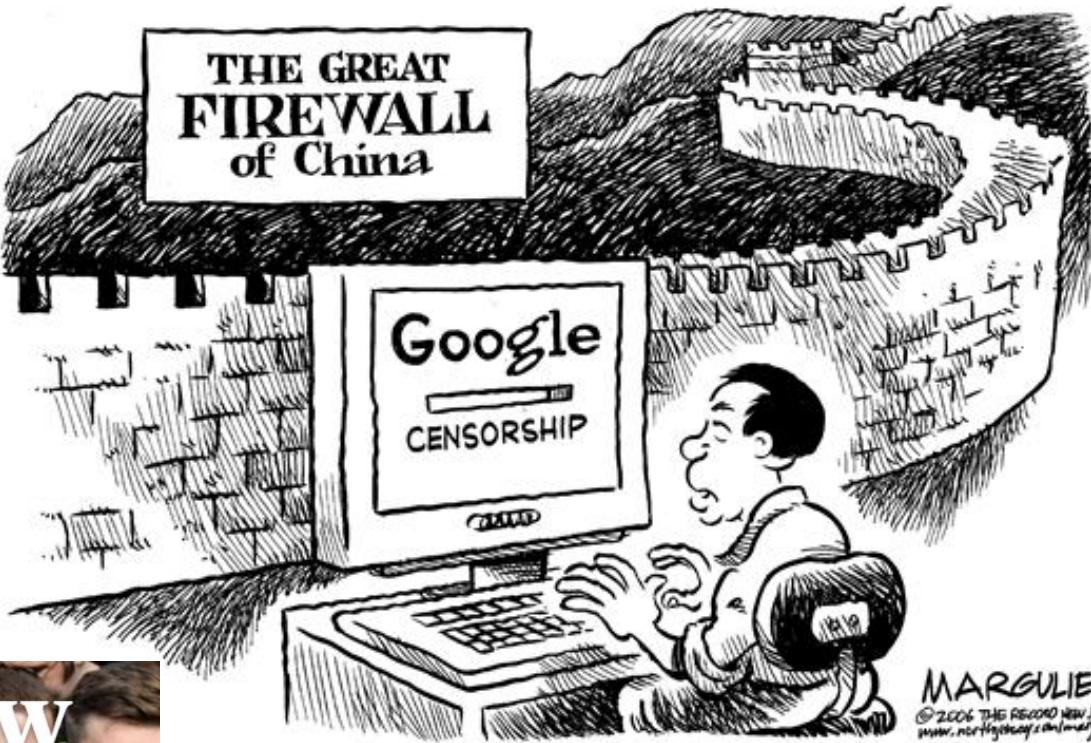
# Vietnam's premier hacking group ramps up targeting of global car companies

Iran Launches New Military Command And Control Unit To Withstand U.S. Cyberattack



The New York Times

*U.S. Escalates Online Attacks on Russia's Power Grid*



# Bending the Internet: How Governments Control the Flow of Information

## Net Neutrality Is about Government Control of the Internet

# RSA® Conference 2019 Asia Pacific & Japan

Around APAC in 30 Minutes:

Vietnam, China, Russia, Australia



# Vietnam Cyber Landscape:

- Early 2000's – Internet arrives
- Late 2000's – Dark web activity begins
- **Half of the country's population of 93 million now actively uses the internet**



# New Internet Laws: Cybersecurity Law of 2018

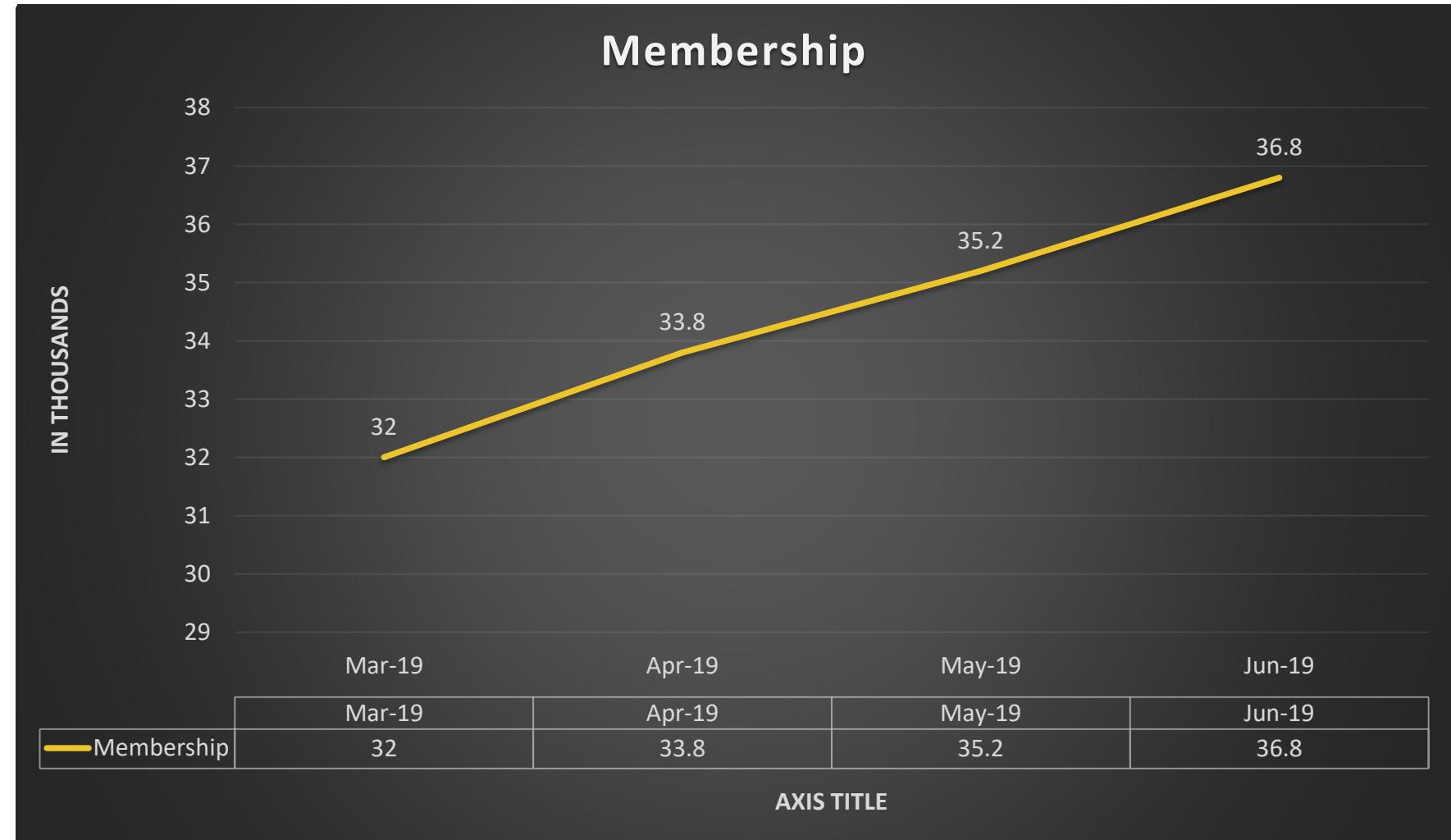
- June 2018 - Vietnamese National Assembly passed a new cybersecurity law requiring tech companies to open offices in Vietnam, store local user data in Vietnam, and hand over any information the government requests.
- The law also enforces censorship of social media, with which internet companies have one year to comply.
- As part of the government's censorship initiative, it created a cyber offensive unit of 10,000 members called "Force 47" to combat proliferation of views it deems inappropriate or toxic.

# Vietnam's Cybersecurity Law of 2018: Implications

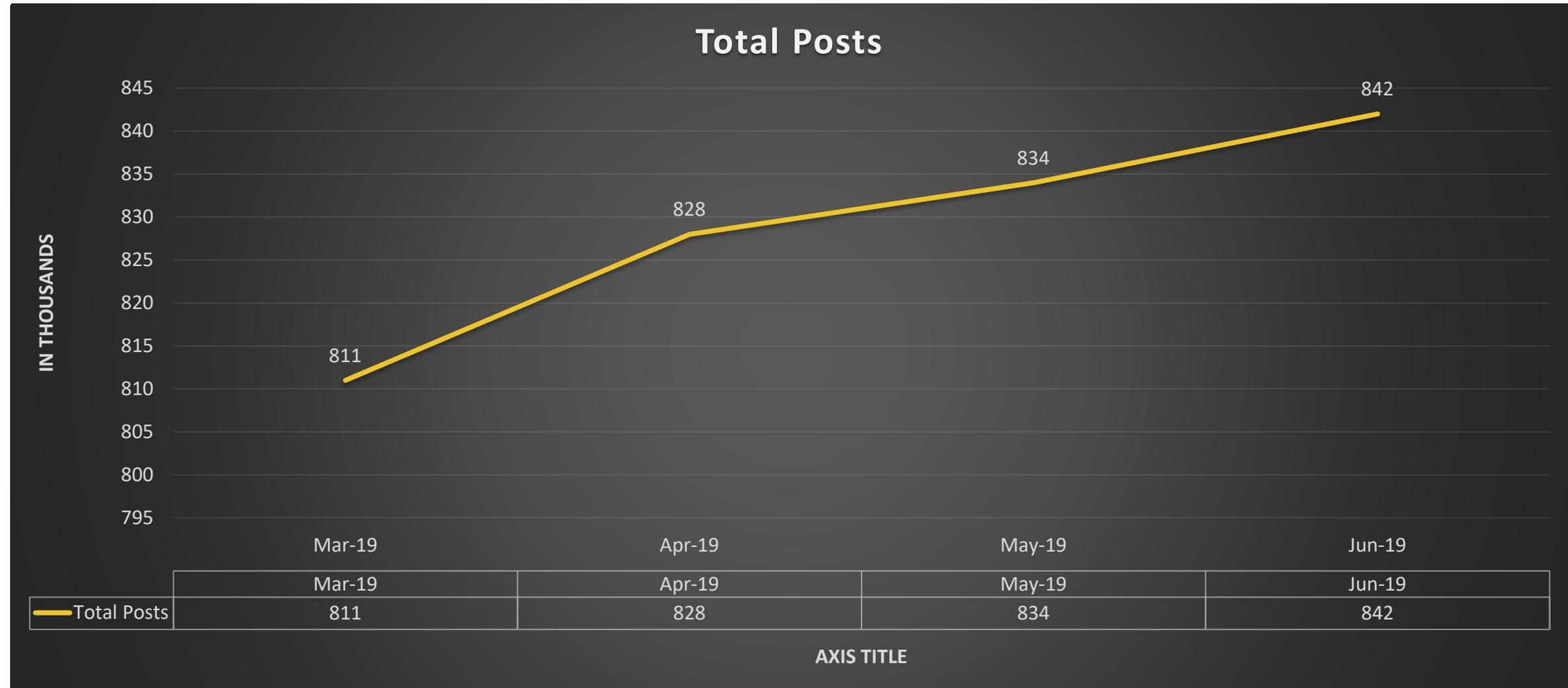
- Force 47 frequently requests removal of social media posts that oppose the government's views, threatening to block all internet users from accessing those platforms entirely
- Social media giants and tech companies are forced to decide between censorship
- Observed increase in Vietnamese-language internet traffic and activity on the deep and dark web
- Thousands of users are migrating to Vietnamese-language forums to seek information on technology, cryptocurrencies, and cybercrime opportunities.
- RISK: Foreign companies operating inside Vietnam forced to weigh risks/benefits

# Vietnamese Dark Web Observations:

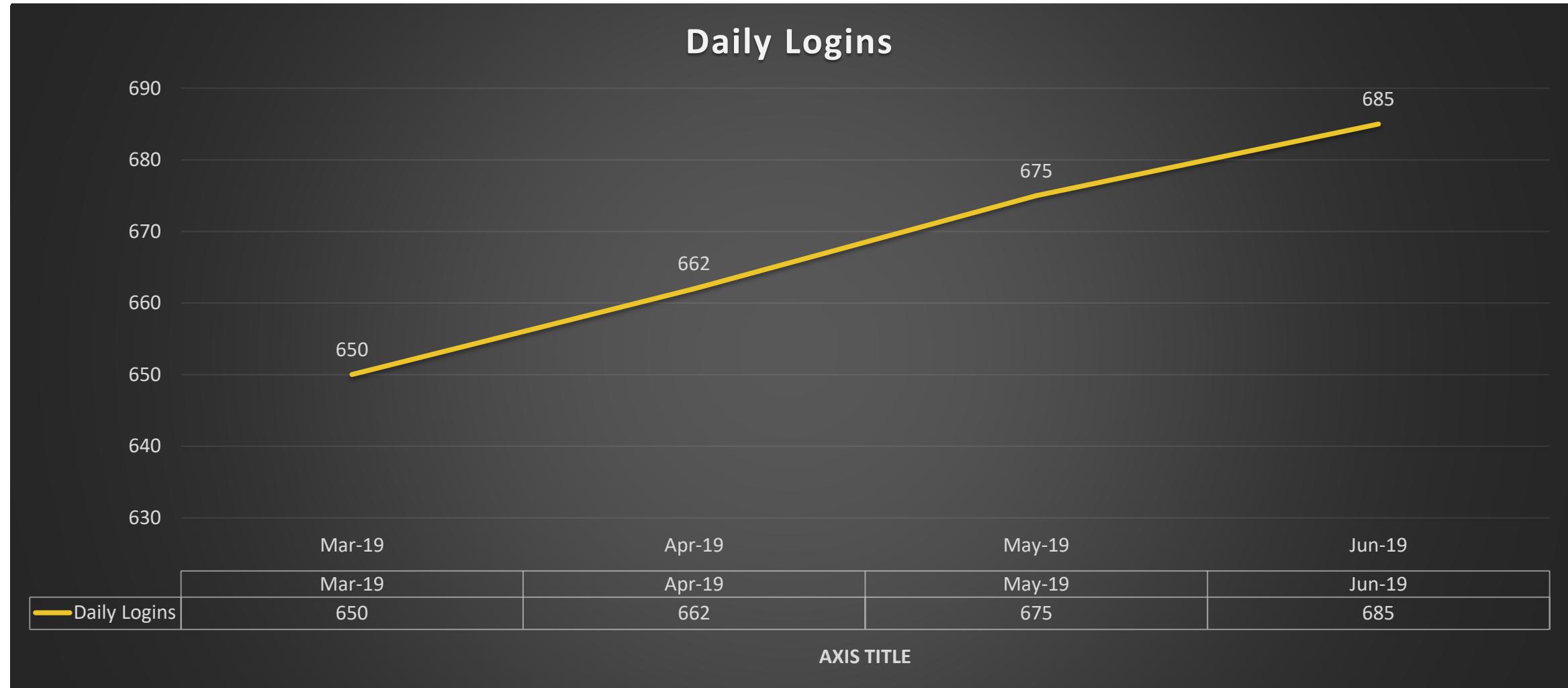
**March 2019**  
– Increase in  
dark web  
usership on  
Vietnamese  
sites  
observed



# Vietnamese Dark Web Observations:



# Vietnamese Dark Web Observations:



**"If you open the window, both fresh air and flies will be blown in."**

# China Cyber Landscape



- Huge strides in AI being used to monitor and track data
- Most expansive “surveillance state” in existence and history
- Recently began requiring tourists to download data-monitoring apps on personal phones

- 2018: China’s Internet population reached more than **772 million users**
- **55.8% of population**, exceeding the global average of 51.7%
- **Internet Sovereignty**
- **Strictest internet laws** of any single government in the world

# New Internet Laws: Cybersecurity Legislation of China

- 1997 CL97: First cyber crime law created
- 2003 Golden Shield Project, Great Firewall
- June 1, 2017 – Cybersecurity Law enacted
- June 2019 – Supplemented with the "Data Security Administrative Measures"
- Requires network operators to provide data under their control upon request

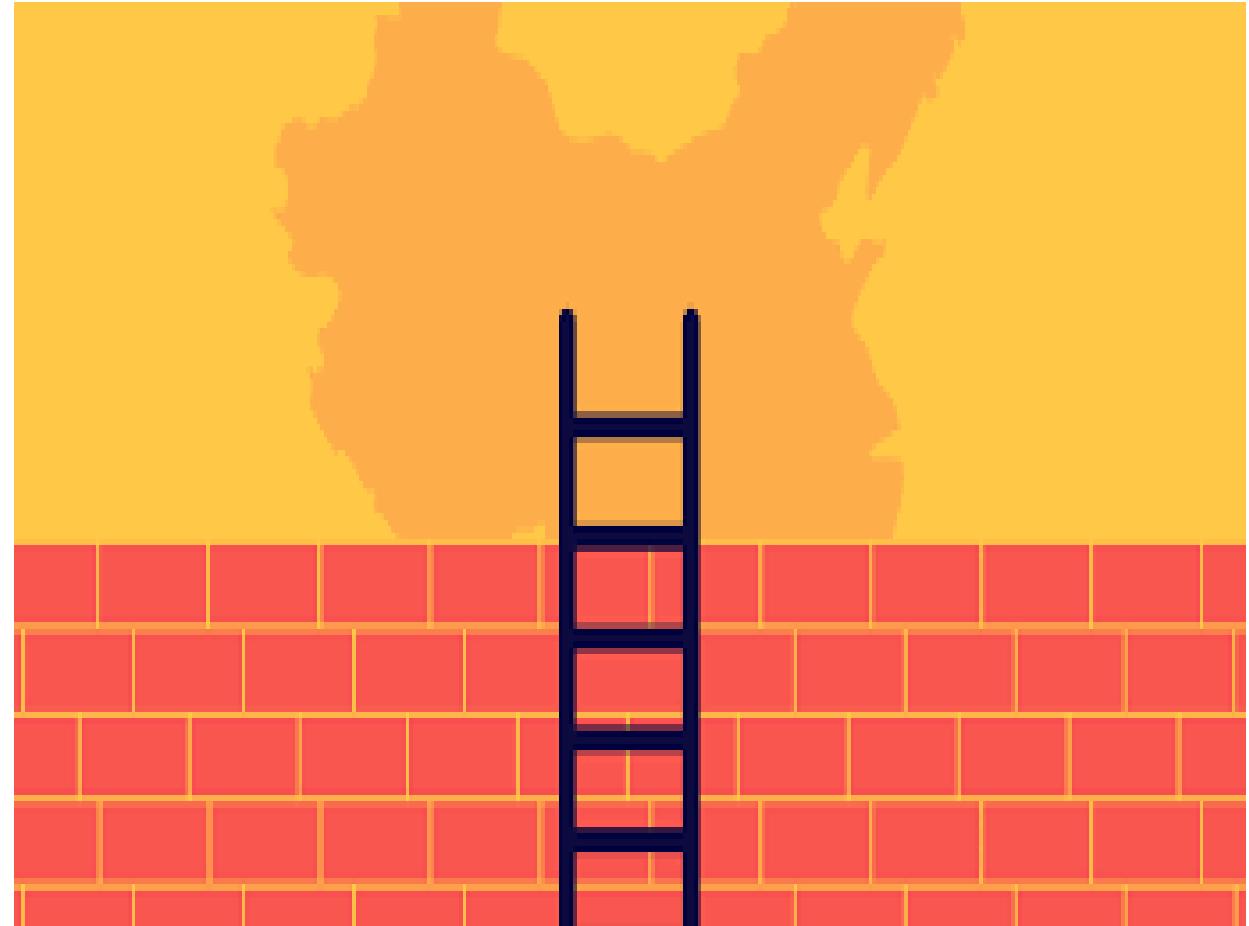


# China's Cybersecurity Laws & Surveillance: Implications

- Penalties: Network operators that violate the measures may be subject to public exposure, confiscation of illegal gains, suspension or a shut-down of their business, disabling of their website or the revocation of relevant business permits or licenses.
- Crimes will be investigated and punished in accordance with relevant criminal law.
- Recruitment of cyber-savvy tech generation to work for state
- RISK: Foreign firms inside China

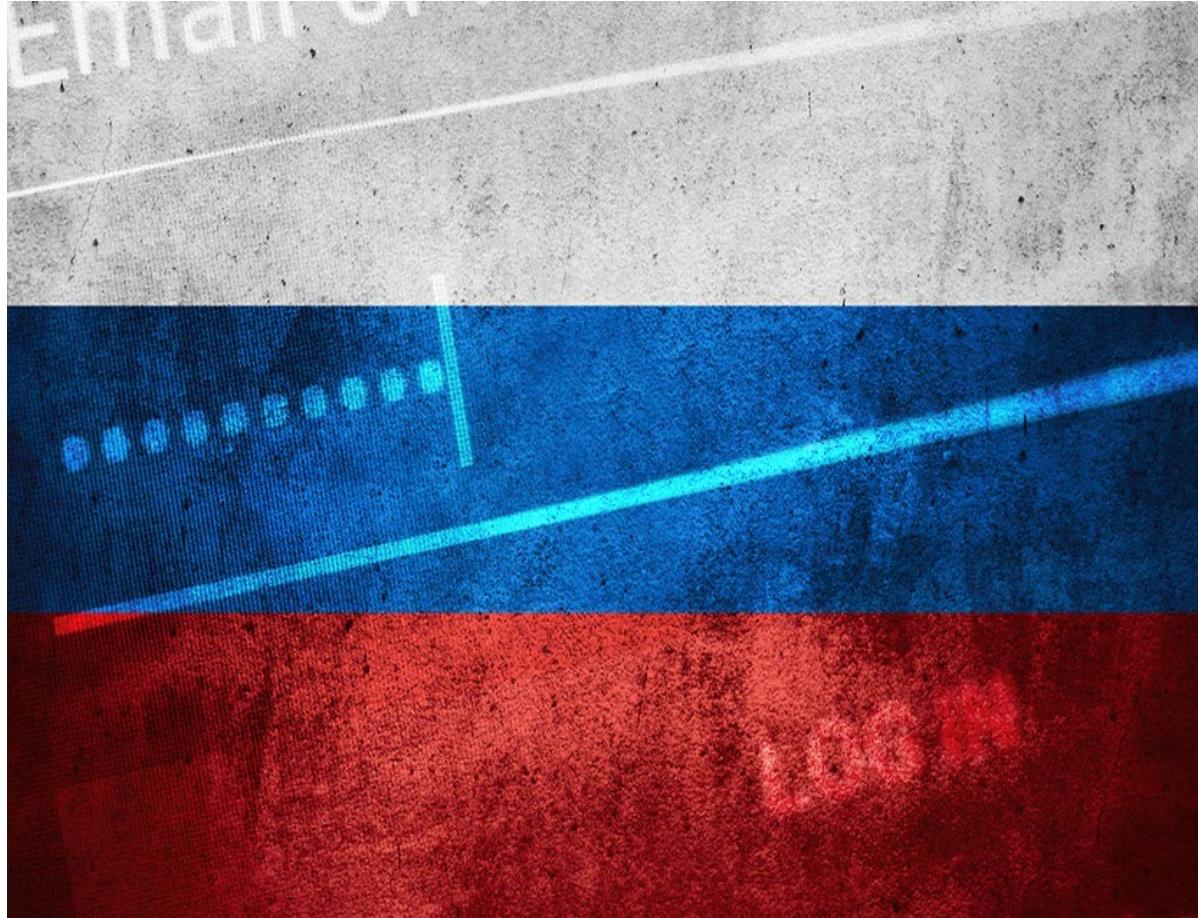
# Dark Implications: Evasion and Enforcement

- 2008 “Operation Tomorrow”, spurred **“black web bars”** used by youth
- Circumvention is possible
- Chinese are **more active on the clear net** because the government limits access to the dark web
- **Cybercriminals use crypto language** to hide true meanings of criminal behavior on clear web





# Russia's Cyber Landscape:



- 76% of citizens are using the internet (higher than South America at 73%, Southeast Asia at 63%, or Oceania at 69%)
- 109.6 million internet users in Russia
- 68% use desktops or laptops
- 61% use smartphones
- 85% of internet users in Russia access the web every day
- 6h29m daily internet usage
- 64% of Russians use the mobile internet
- 6 of the 10 most frequently visited websites belong to Russian companies

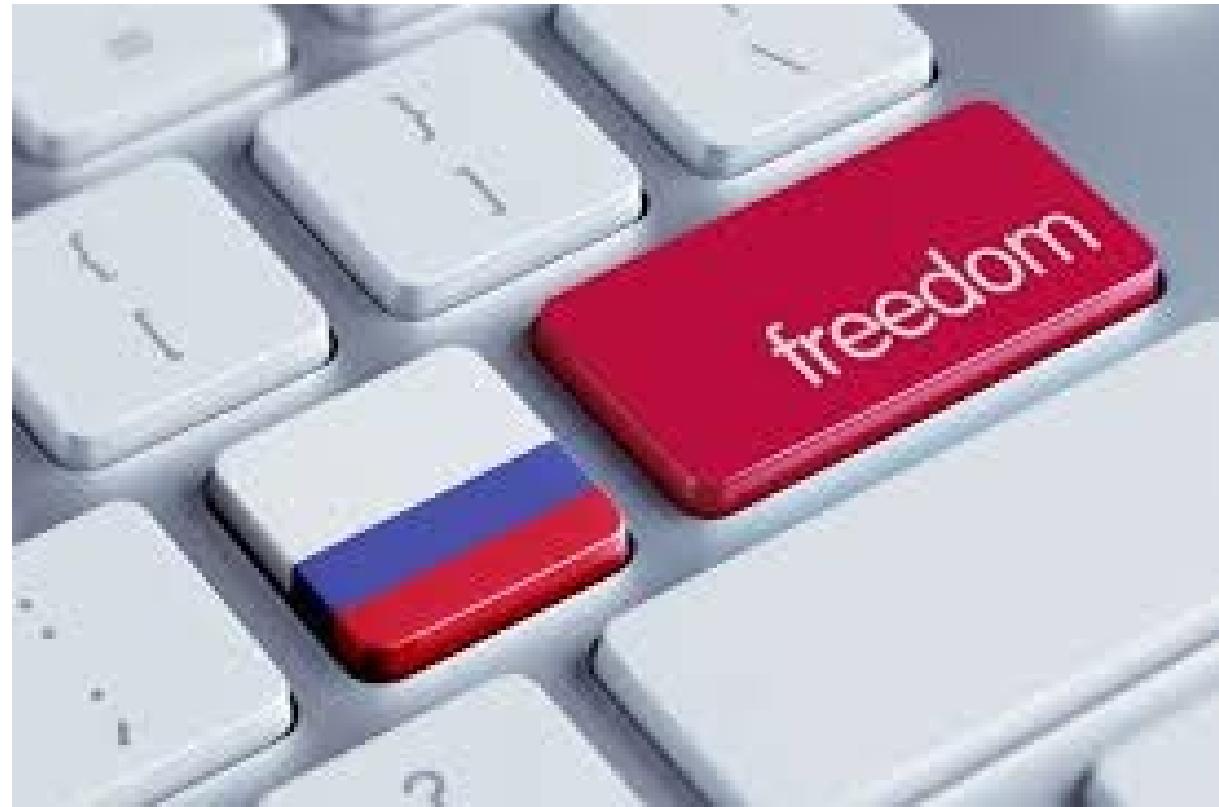
# Russia's Social Media Landscape:

- 49% Internet users in Russia use social media
- 70 million active social media users in Russia
- Most active platforms: YouTube, VK, and WhatsApp
- 83% of Russians use Vkontakte instead of Facebook (39%)



# Legal Precedents in Russia:

- SORM, April 2014
- Data Localization Law, Sep 2015
- Yarovaya Anti-Terrorism Law
- VPNs and Anonymizers Law, Nov 2017
- Messenger Identification Law, May 2019



# Russia's New Internet Law: Sovereign Internet Bill

- Signed into law by President Putin on May 1, 2019
- Russian stance:
  - Designed to protect its network from foreign intervention
  - Prevent foreign intervention that might intend to disconnect Russia from the world wide web
  - Establishes a means for closure of Russian access to the internet while maintaining a functional internet inside their own borders
  - Russia states if they are cut off from the WWW, they could willfully disconnect from global root name servers, ensuring autonomous operation of RUNet, the Russian internet sector

# Russia's Internet Laws: Implications

- Specialized hardware and software installed in every Russian ISP
- Government and law enforcement have on-demand access to private data of citizens without subpoena or court order
- Russia can disconnect citizens from the world wide web
- Restrict internet freedom for users
- Bolster government grip on the internet used within its borders

# Russian Dark Web Landscape

HYDRA < > KreyzLab classic  
Медфедон  
Доставка: Пенза, Ростов-на-Дону, Екатеринбург  
Тип: Моментальный, предзаказ  
Моментальная торговля в TOR

ФОРУМ ПОЛЬЗОВАТЕЛИ ВХОД

WAYAWAY  
Для полноценной работы сайта необходимо включить JavaScript. Без JavaScript вам не доступны все функции wayAway.  
WAYAWAY ПРЕДСТАВЛЯЕТ:  
HYDRA . Супермаркет моментальных покупок.  
Последнее: Задавайте вопросы от gmaniste, 24 авг 2018 в 13:23  
Магазинам Телеграм канал HYDRA  
WIKI. Правила. Цены.  
Последнее: Советы новичкам, от Jamestown, 23 авг 2018 в 06:53  
ГАРАНТ Tops & Tricks  
Рапорт на VPN и TOR в России. Решение.  
Runion  
Никогда не ставь свою безопасность в зависимость от доброжелательности других людей  
Вы не вошли.  
Конструируем отмычку под сайф  
Ноутбуки: реалисты и героями, Часть 1  
Махинации с Российским Экспрессом  
Вскрытие сумасшедший замок  
Обманщики 2018  
Runion  
Важная информация  
Справочник и практика  
Правила, F.A.Q. по форуму  
Эксклюзив Runion  
Гордость форума  
Тематические разделы  
Защита информации  
Технологии, анонимность, шифрование  
F.A.Q. по разному  
Техника безопасности  
Минимизация риска в реальной жизни  
F.A.Q. по разному

КОМАНДА ФОРУМА В СЕТИ  
ScoroBei  
Модератор Начать переписку

СТАТИСТИКА ФОРУМА  
Темы: 39.412  
Сообщения: 2.298.226  
Пользователи: 159.702

ПОИСК... ИСКАТЬ Войти Регистрация  
Входы Товары Записи 1 BTC = 6 449 USD / 374 042 RUB

ЗА ПОСЛЕДНИЙ ДЕНЬ  
Новых тем: 17  
Новых сообщений: 1.151  
Зарегистрированных: 18  
Забаненных: 1

GangBang shop ★★★★★ CONTRABAND ★★★★★ Cosa Nostra ★★★★★ Playboy Journal ★★★★★  
PokemonGo ★★★★★ HighQuality ★★★★★ Другое сознание ★★★★★ KARABAS [THE BEST OF COCA... ★★★★★

Hydra Landing Page (source: [http://hydra23qk4ar6ycs\[.Jonion/](http://hydra23qk4ar6ycs[.Jonion/))

Rutor Главный форум черного рынка  
Форум Гарант Фотохостинг Записки Реклама на форуме 2-FA

Форум  
Фальшивые купюры 5000 р.  
Москва УБИЙСТВО  
Регистрация  
Команда форума в сети Moderator  
Пользователи онлайн  
Всего: 42 (пользователей: 41, гостей: 1, роботов: 0)

bit.in  
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# Russian Dark Web Rule #1: Never Target CIS/Russia

tukago Опубликовано: 24 января Жалоба • 4  
нагбайт \*\*\*  
  
Пользователь 72 публикации Регистрация 09.07.2016 (ID: 70 511) Действность  
Бродя уже не школьник, но чен дужают некоторые личности.  
41-летний житель Волгограда пытался взломать сайт правительства Кировской области  
Мужчине грозит до четырех лет колонии  
21 сентября 2017 года была зафиксирована атака на сервер сайта правительства Кировской области. Как выяснилось, это сделал 41-летний житель Иловлинского района Волгоградской области. Мужчина использовал специальную компьютерную программу, которая могла нейтрализовать защиту данных. Однако доступ к серверу он получить не смог: защита сайта правительства нашего региона оказалась на слишком высоком уровне.  
• Уголовное дело завели по ч. 1 ст. 273 УК РФ «Использование вредоносной компьютерной программы», - сообщает прокуратура Волгоградской области. • 41-летний мужчина полностью признал свою вину, теперь ему грозит до четырех лет колонии. Дело передано в суд.  
Ранее в Кирове поймали 17-летнего подростка, который пытался взломать сайт федерального министерства. Нанести вред серверу ему так и не удалось.

*A post describing the arrest of a Russian hacker who tried to hack a local government site*

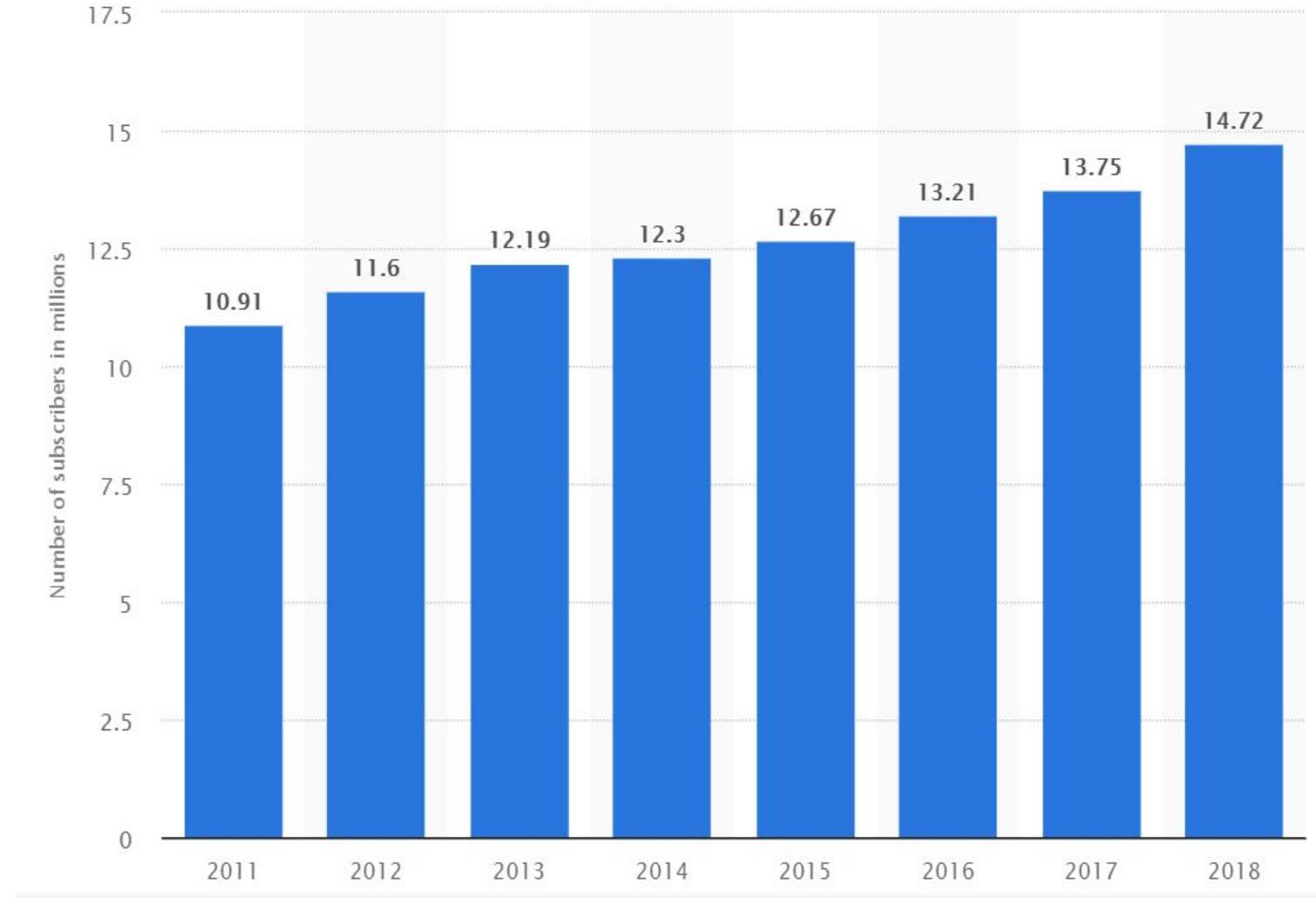
# What's Next in Russia?

- Dark web users will have to invest more time and thought into building proxies and anonymizing their infrastructures
- Use of VPN companies that are compliant with Russian laws and passing information to government agencies (or not)
- Prediction: Creation of methods to bypass government inspection equipment or create alternative means of networking

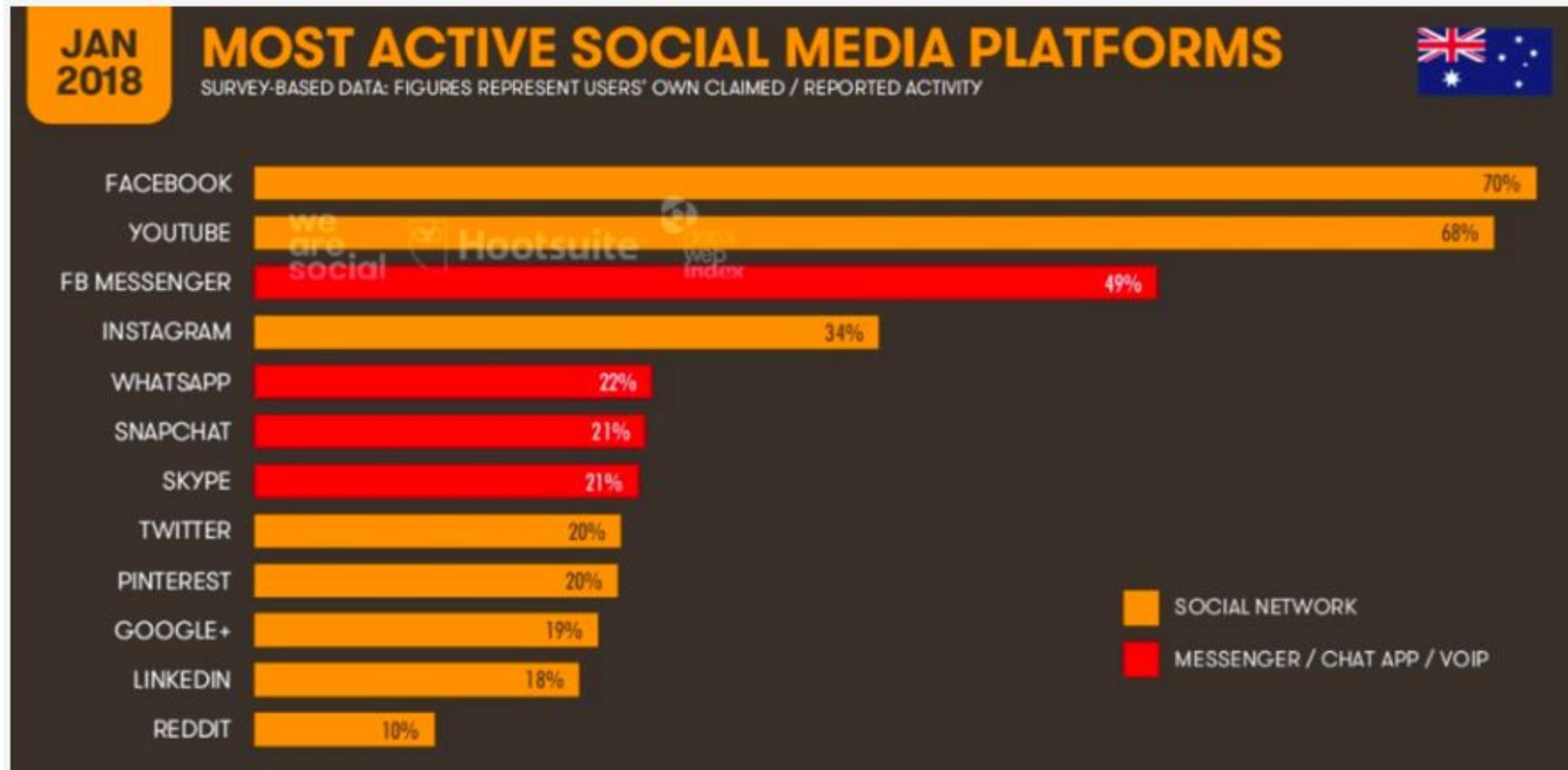


# Australia Cyber Landscape: Internet Usership

- 88 percent were active users
- 14.7 million internet subscribers in Australia
- 69% of the population are active social media users
- 78% are mobile device users
- Fastest mobile device usership growth at 7% annual growth



# Australia Cyber Landscape: Social Media Usage



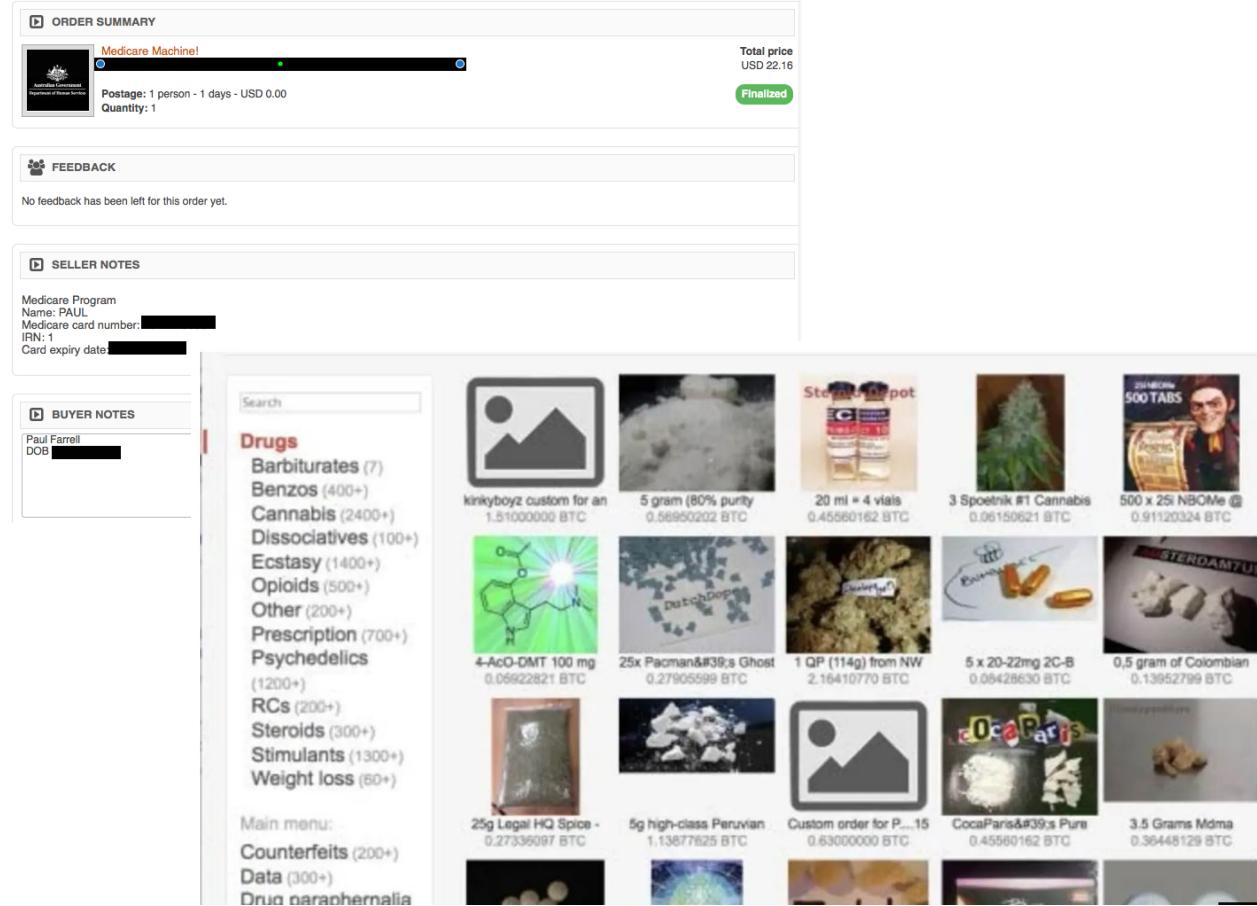
# Australia's Internet Laws: Telecommunications and Other Legislation (Assistance and Access) Bill

- Will allow Australia's intelligence and law enforcement agencies to demand access to end-to-end encrypted digital communications
- Allows officials to approach specific individuals with demands, rather than institutions. Ex: Can force an engineer or IT admin to undermine security
- Companies that refuse or fail face fines up to \$7.3 million; individuals face prison time
- Tailored access to individual programs could be a possibility

# Australia's Internet Laws: Implications

- Backdoors built into a product are accessible equally to governments and threat actors. Vulnerable to criminals and other state-sponsored threat groups.
- Companies might opt to turn off end-to-end encryption, disable smartphone “kill switches”, or take away users’ sole ability to decrypt their own smartphones.
- Draconian punishments set back human rights
- Backdoor-friendly legislation is the logical extreme, leading countries to block access to technology that offers robust security

# Australia's Dark Web Landscape:



The screenshot shows a dark web marketplace interface with the following sections:

- ORDER SUMMARY:** Medicare Machine!, Postage: 1 person - 1 days - USD 0.00, Quantity: 1, Total price USD 22.16, Finalized.
- FEEDBACK:** No feedback has been left for this order yet.
- SELLER NOTES:** Medicare Program Name: PAUL, Medicare card number: [REDACTED], IRN: 1, Card expiry date: [REDACTED].
- BUYER NOTES:** Paul Farrell, DOB: [REDACTED].
- DRUGS CATEGORIES:** Barbiturates (7), Benzos (400+), Cannabis (2400+), Dissociatives (100+), Ecstasy (1400+), Opioids (500+), Other (200+), Prescription (700+), Psychedelics (1200+), RCs (200+), Steroids (300+), Stimulants (1300+), Weight loss (60+).
- ITEM LIST:**
  - kinkyboyz custom for an 1.5100000 BTC
  - 5 gram (80% purity) 0.56950202 BTC
  - 20 ml = 4 vials 0.45560162 BTC
  - 3 Spooznik #1 Cannabis 0.06150621 BTC
  - 500 x 25i NBOMe @ 0.91120324 BTC
  - 4-AcO-DMT 100 mg 0.06922821 BTC
  - 25x Pacman&#39;s Ghost 0.27905599 BTC
  - 1 QP (114g) from NW 2.16410770 BTC
  - 5 x 20-22mg 2C-B 0.08428630 BTC
  - 0.5 gram of Colombian 0.13952799 BTC
  - 25g Legal HQ Spice - 0.27336097 BTC
  - 5g high-class Peruvian 1.13877625 BTC
  - Custom order for P...15 0.63000000 BTC
  - CocaParis&#39;s Pure 0.45560162 BTC
  - 3.5 Grams Mdma 0.36448129 BTC
- MAIN MENU:** Counterfeits (200+), Data (300+), Drug paraphernalia.

- Illegal drugs: Meth, MDMA, Cocaine, Mushrooms**
- “Medicare Machine”: Medicare and Medical Records**
- Fake ID’s, fraudulent documents**

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## Global Implications

# Global Implications: Business Data at Risk

- Handing over data to a foreign government
- Handing over access to your crown jewels to a foreign or domestic government
- Disclosures to your partners, customers, employees
- Increase in data storage to accommodate government requirements



# Global Implications: Driving Citizens Underground



- Discovery: Young, technical generations in APAC countries are migrating to Deep and Dark Web (DDW)
- Purpose:
  - Anonymity
  - Financial Opportunities
  - Cryptocurrency Usage

# Global Implications: Anonymizers

- Migration to cryptocurrency
  - Anonymous money-making opportunities
  - No tracking of income by government
- Anonymizers such as TOR and VPNs:
  - Help hide IP addresses and locations of logins
  - TOR used for dark web access to .onion sites
  - Hide web traffic from government surveillance



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## Summary

- **Vietnam: Cybersecurity Law of 2018**
- **China:**
  - **Cybersecurity Law of 2017**
  - **Data Security Administrative Measures of 2019**
- **Russia: Sovereign Internet Bill of 2018**
- **Australia: Telecommunications “Assistance and Access” Bill of 2018**

- **Internet laws around the world, especially in APAC are creating lasting and permanent changes in the Cyber Threat Landscape**
- **Isolationism, restrictions, and data privacy laws will drive citizens to the deep and dark web for anonymity, cryptocurrency, and access to otherwise inaccessible information, including crime**

# What Can We DO About This?

- Use **Cyber Threat Intelligence** to conduct a **RISK ASSESSMENT**
- Know your **DIGITAL FOOTPRINT**: Understand the risk that your organization is already facing
- Know your **THIRD PARTY RISK**-- who has access to your data or traffic?



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