

David and Goliath
*Estonia &
Grand Strategy
in Cyberspace*
Kenneth Geers



Kenneth Geers PhD, CISSP

Comodo Chief Research Scientist

NATO Cyber Centre Ambassador

Atlantic Council Senior Fellow

Professor: Ukraine

20 yrs USG: US Army, NSA, NCIS, NATO

Publications

- *Understanding Cyber Conflict*
- *Cyber War in Perspective*
- *Tallinn Manual*
- *Strategic Cyber Security*
- *The Virtual Battlefield*

kenneth.geers@comodo.com

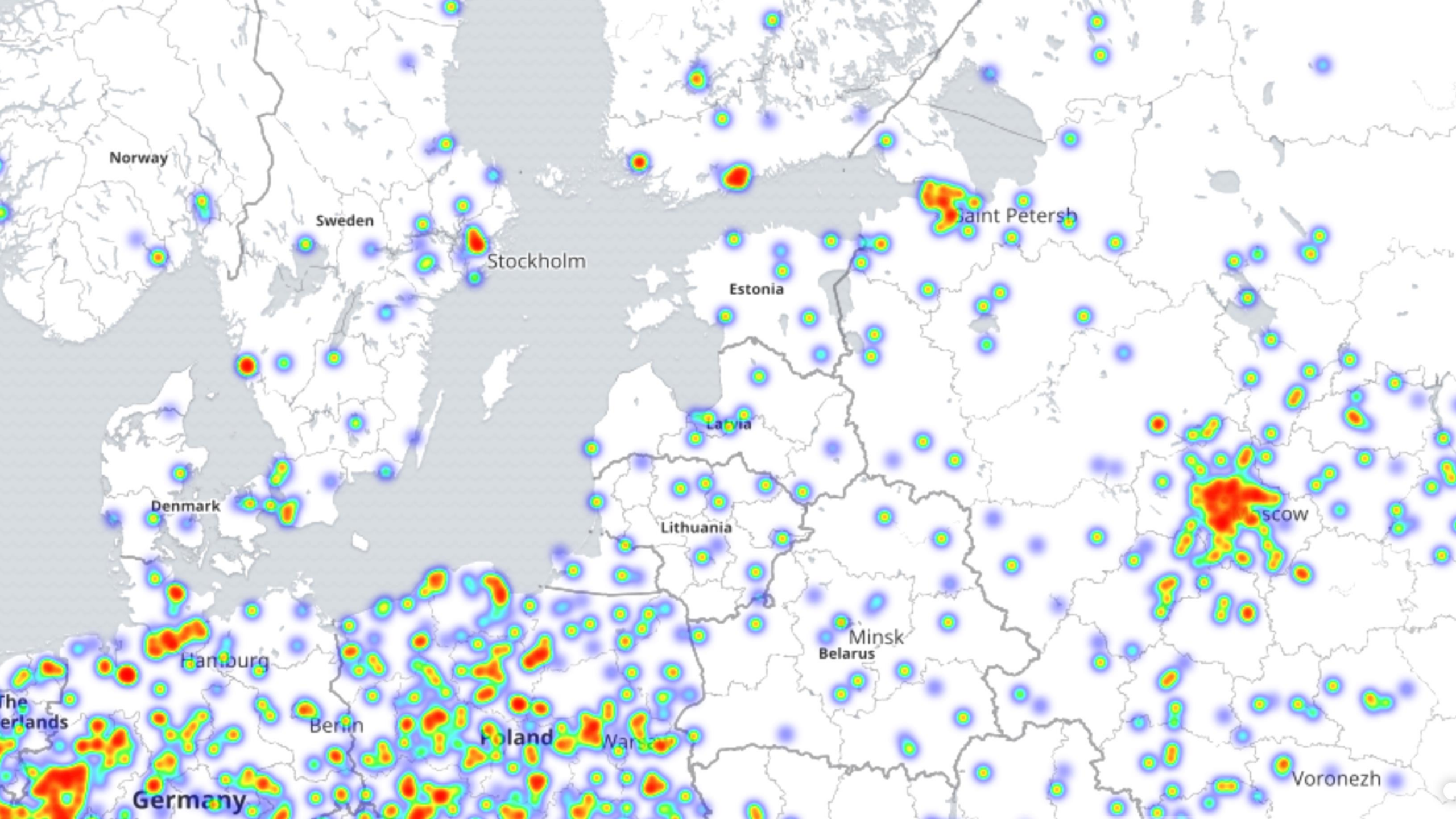
@KennethGeers

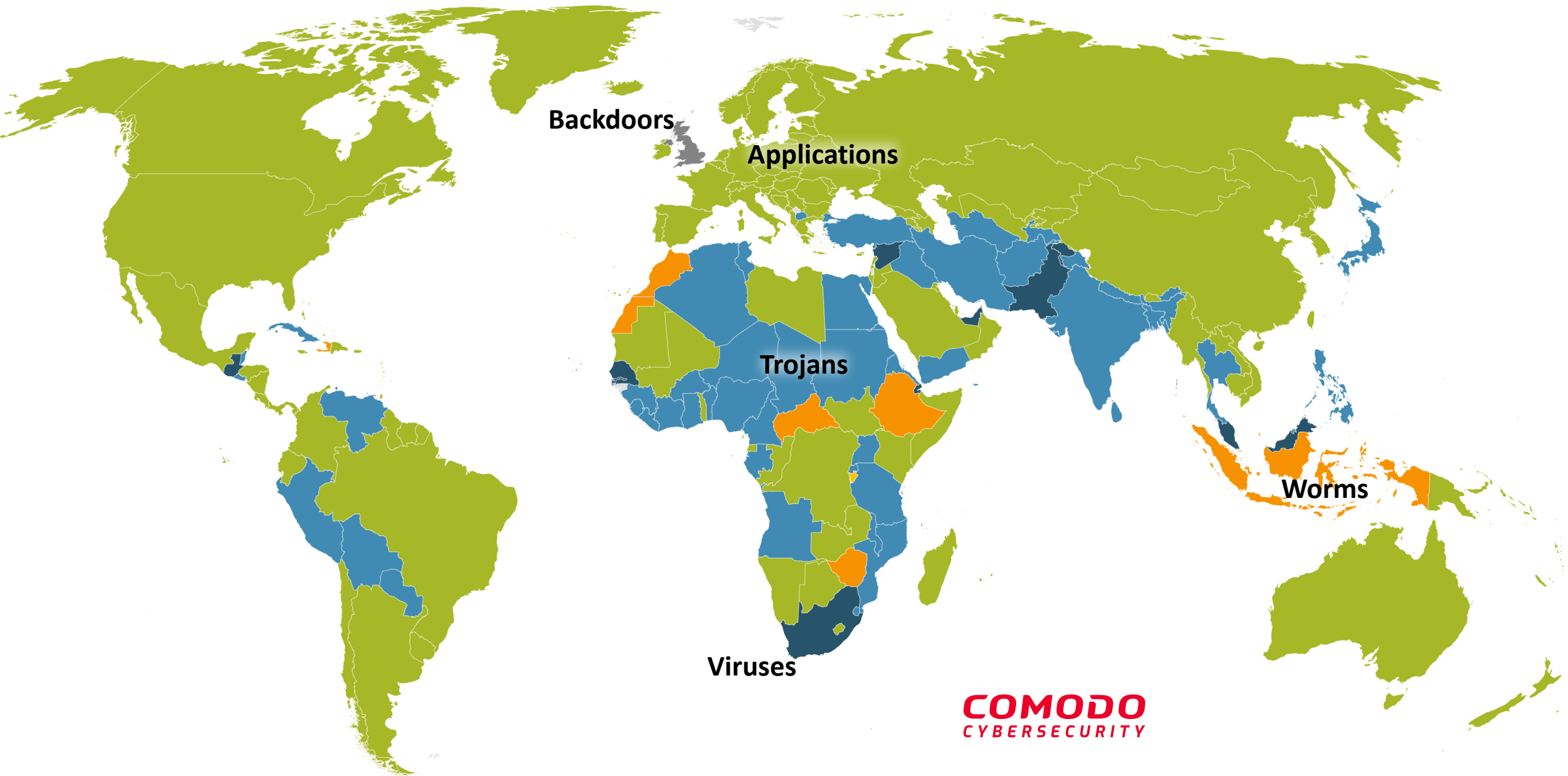


COMODO
CYBERSECURITY





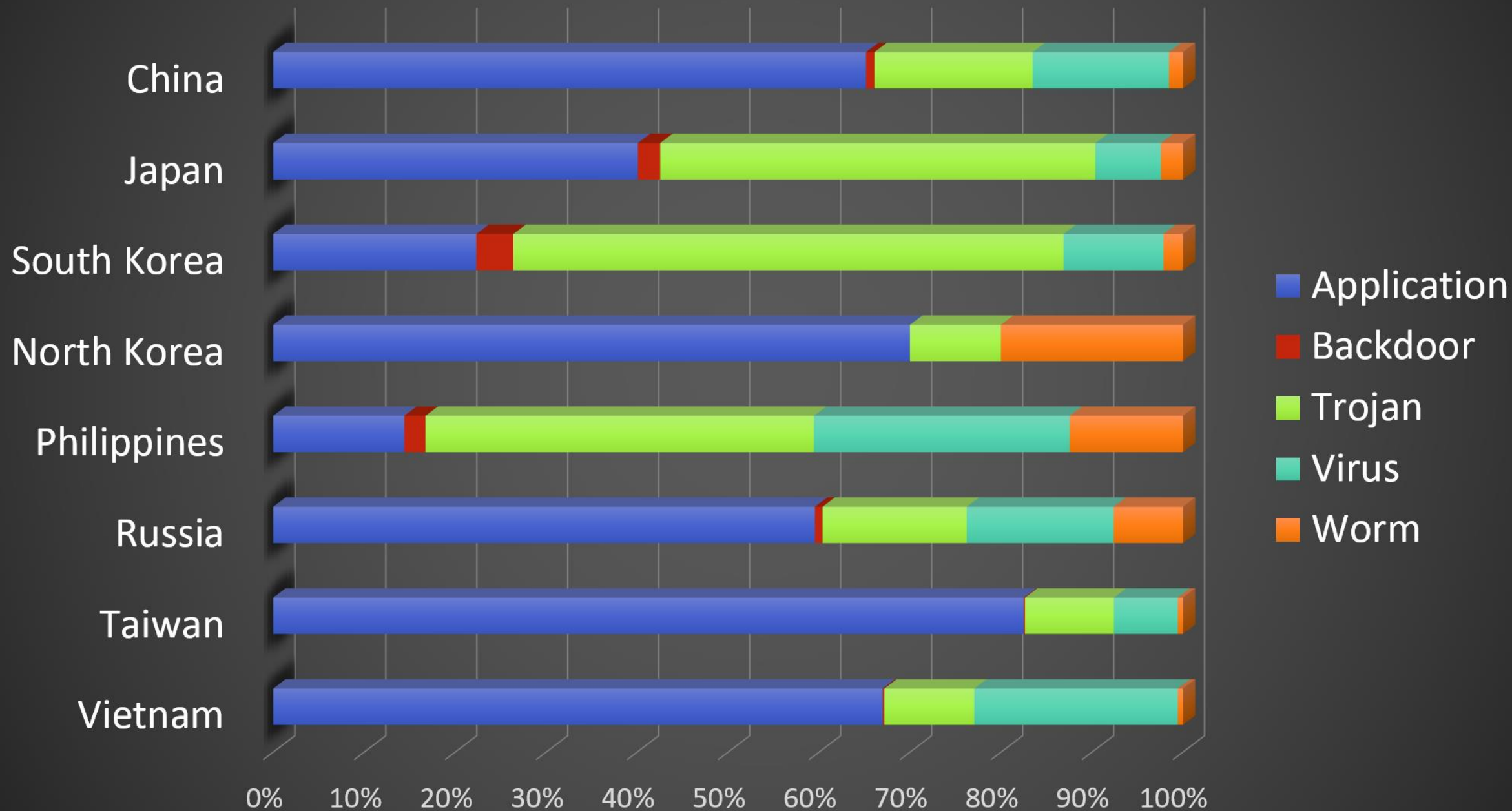




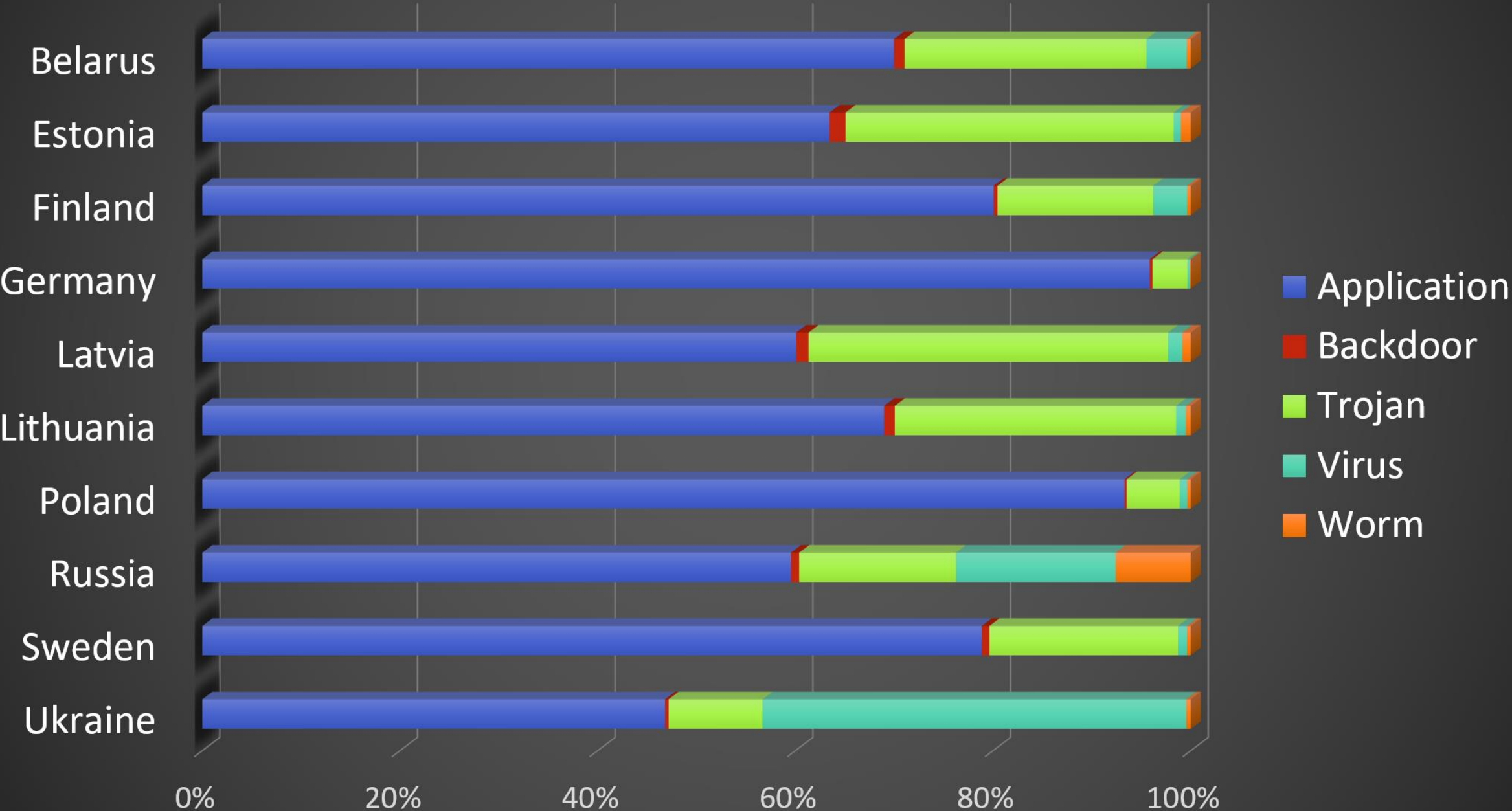
Top Malware Types by Country



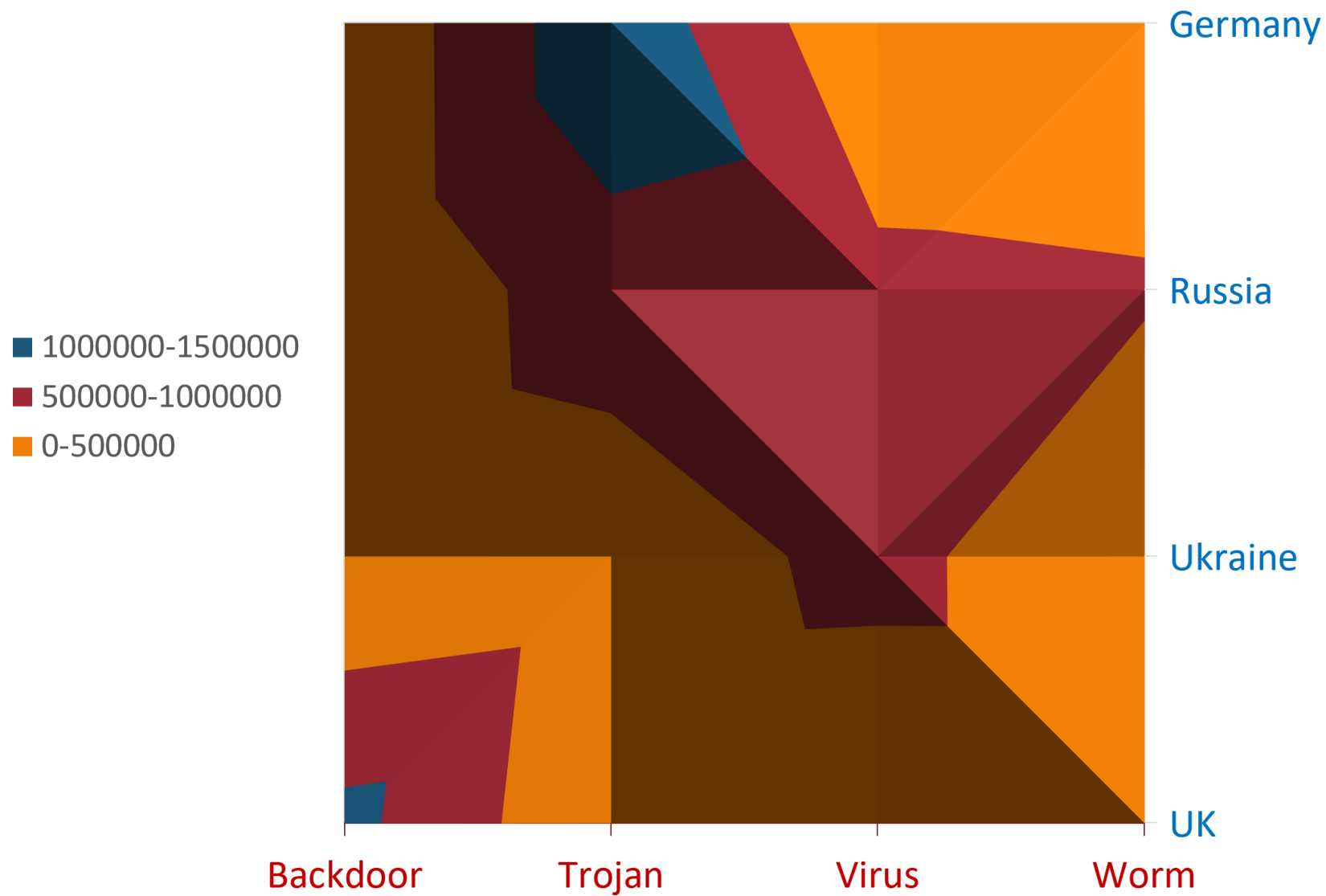
Malware Ratios: Around Japan



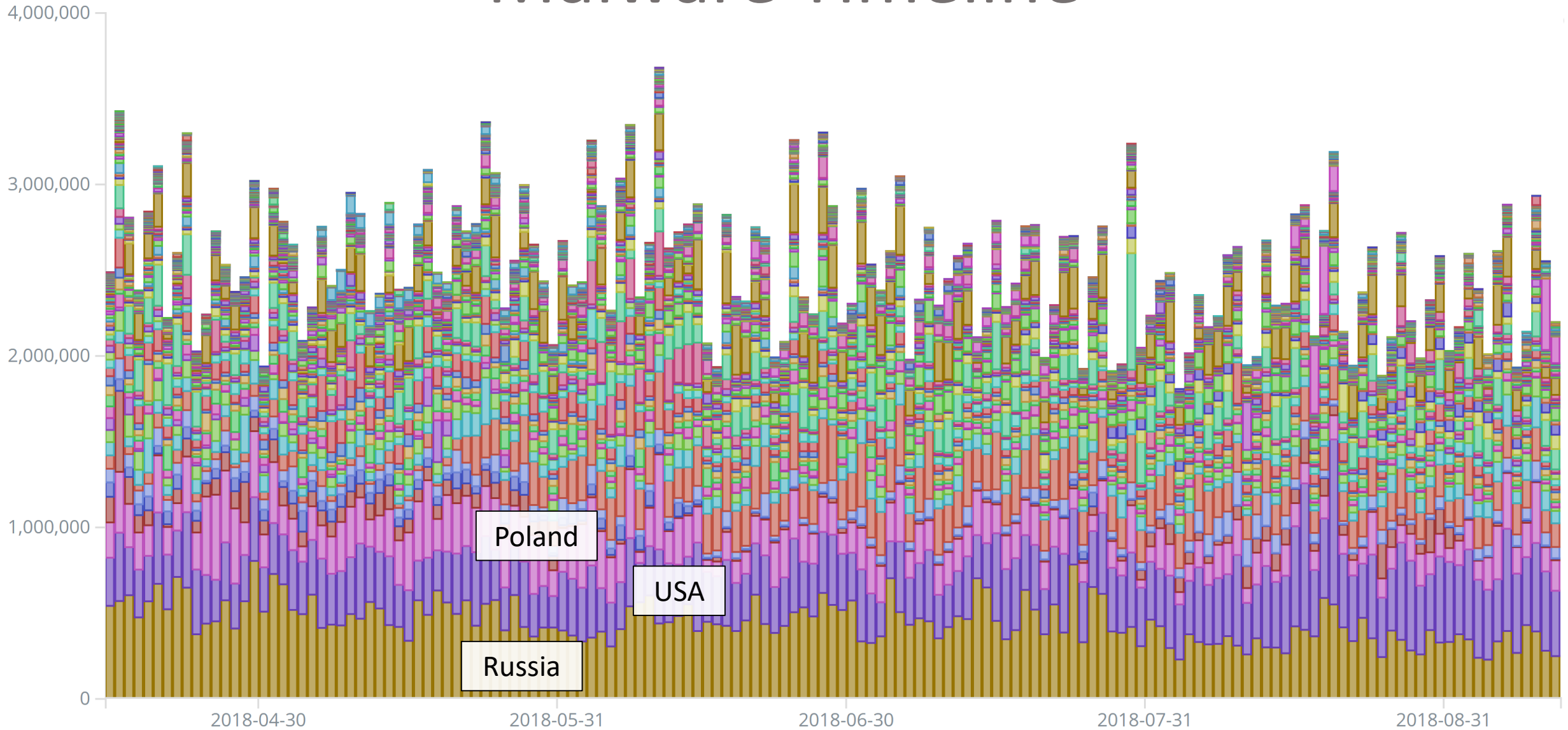
Malware Ratios: Around Estonia



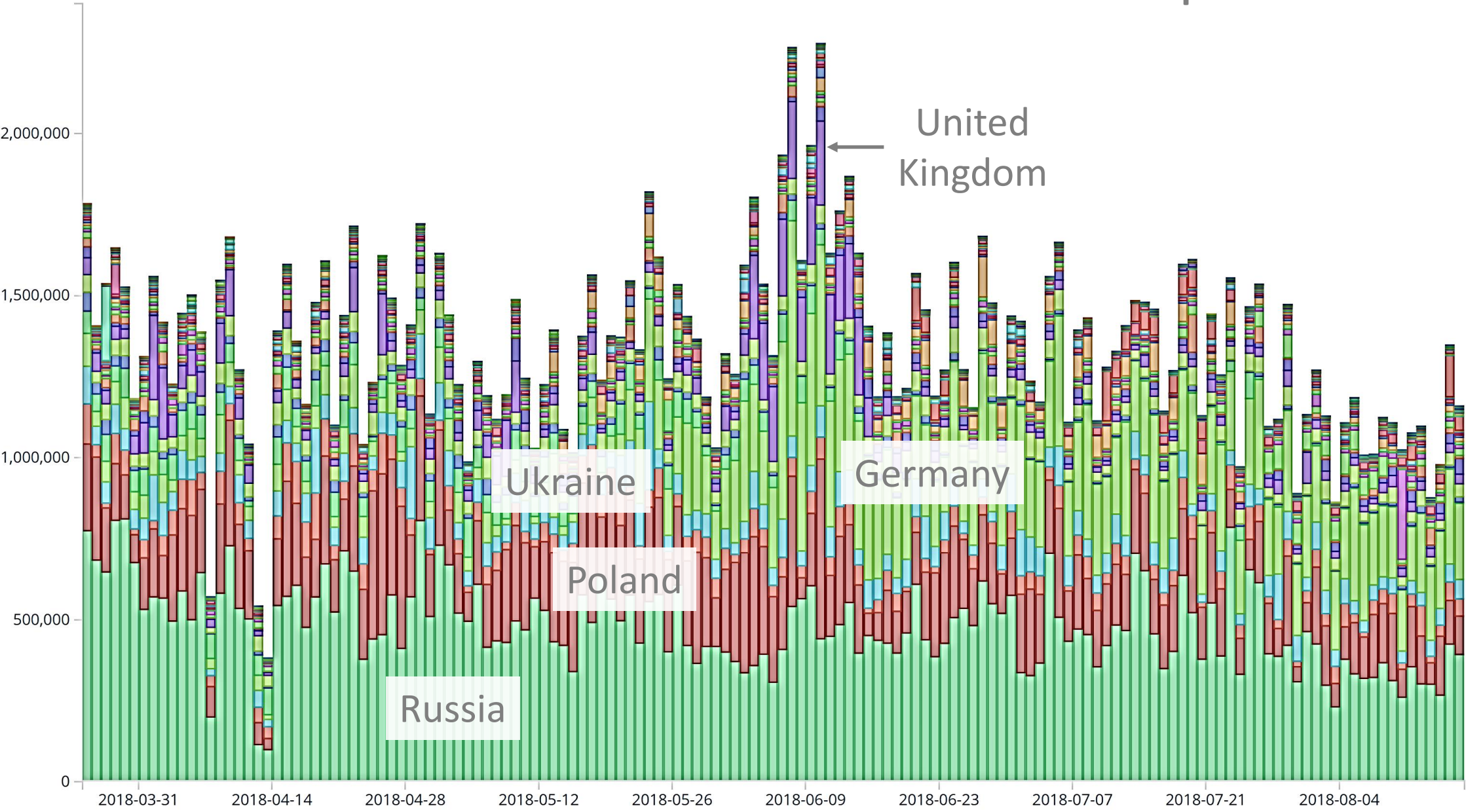
Malware Geography: Europe



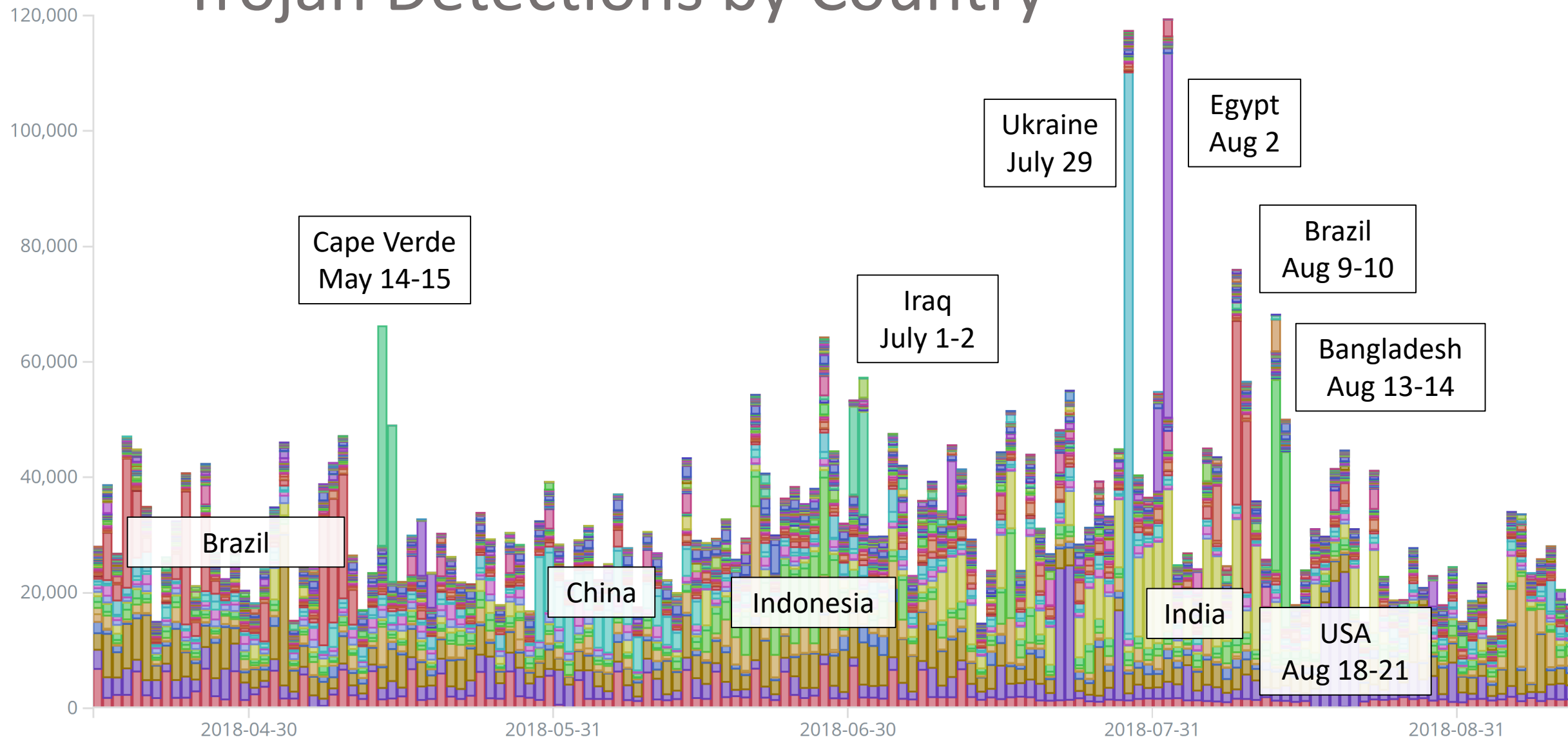
Malware Timeline



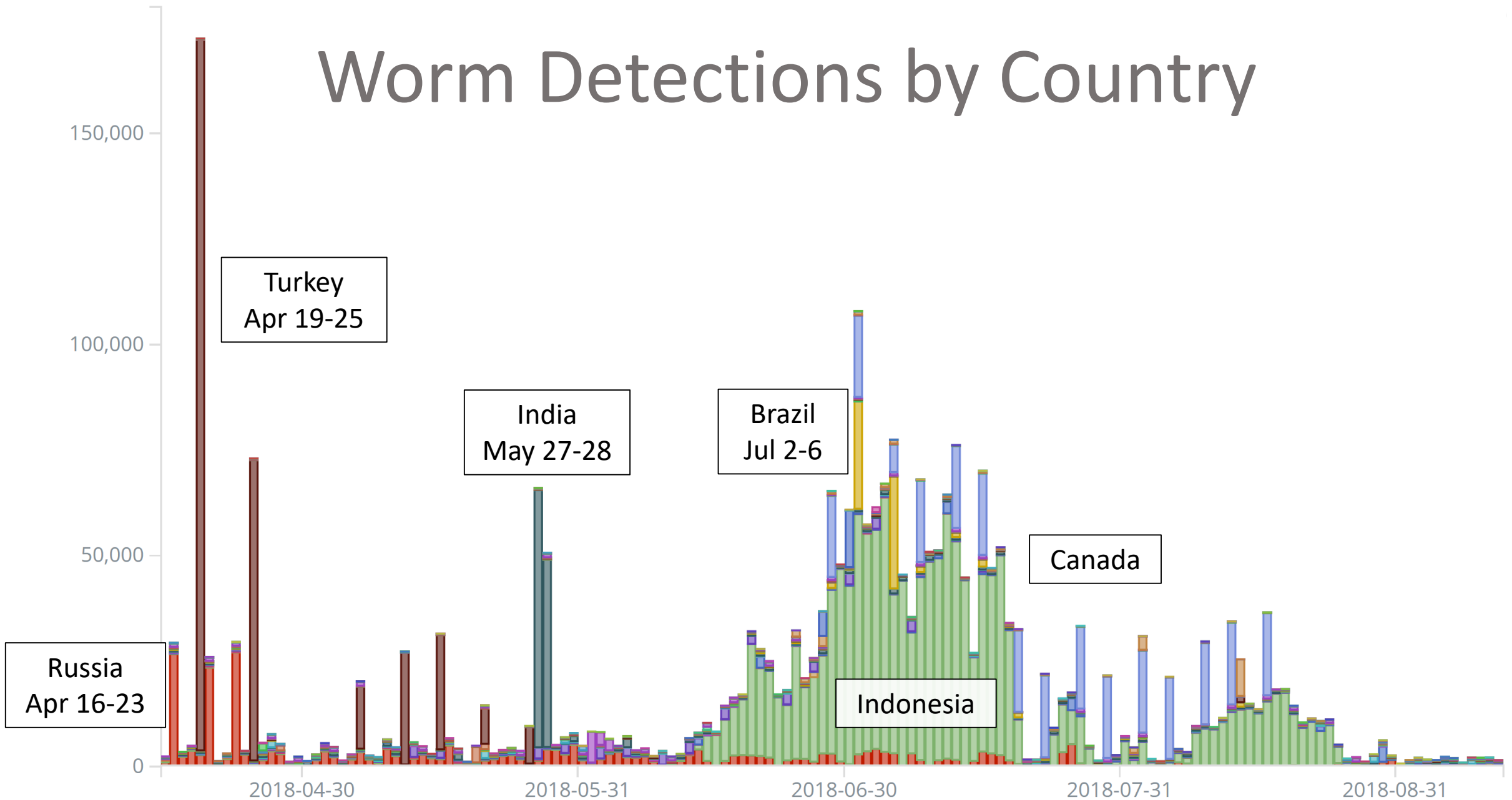
Malware Detection Timeline: Europe



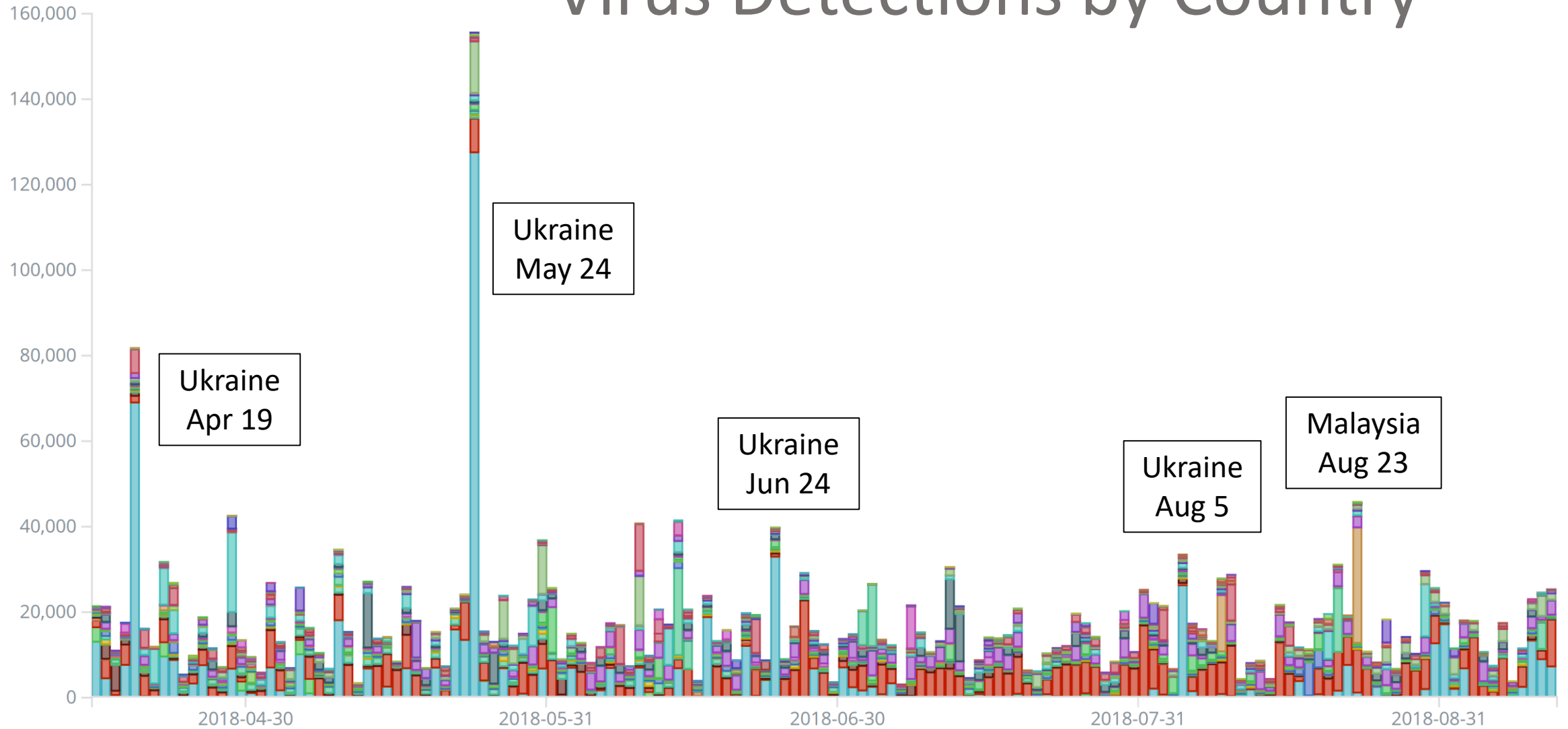
Trojan Detections by Country



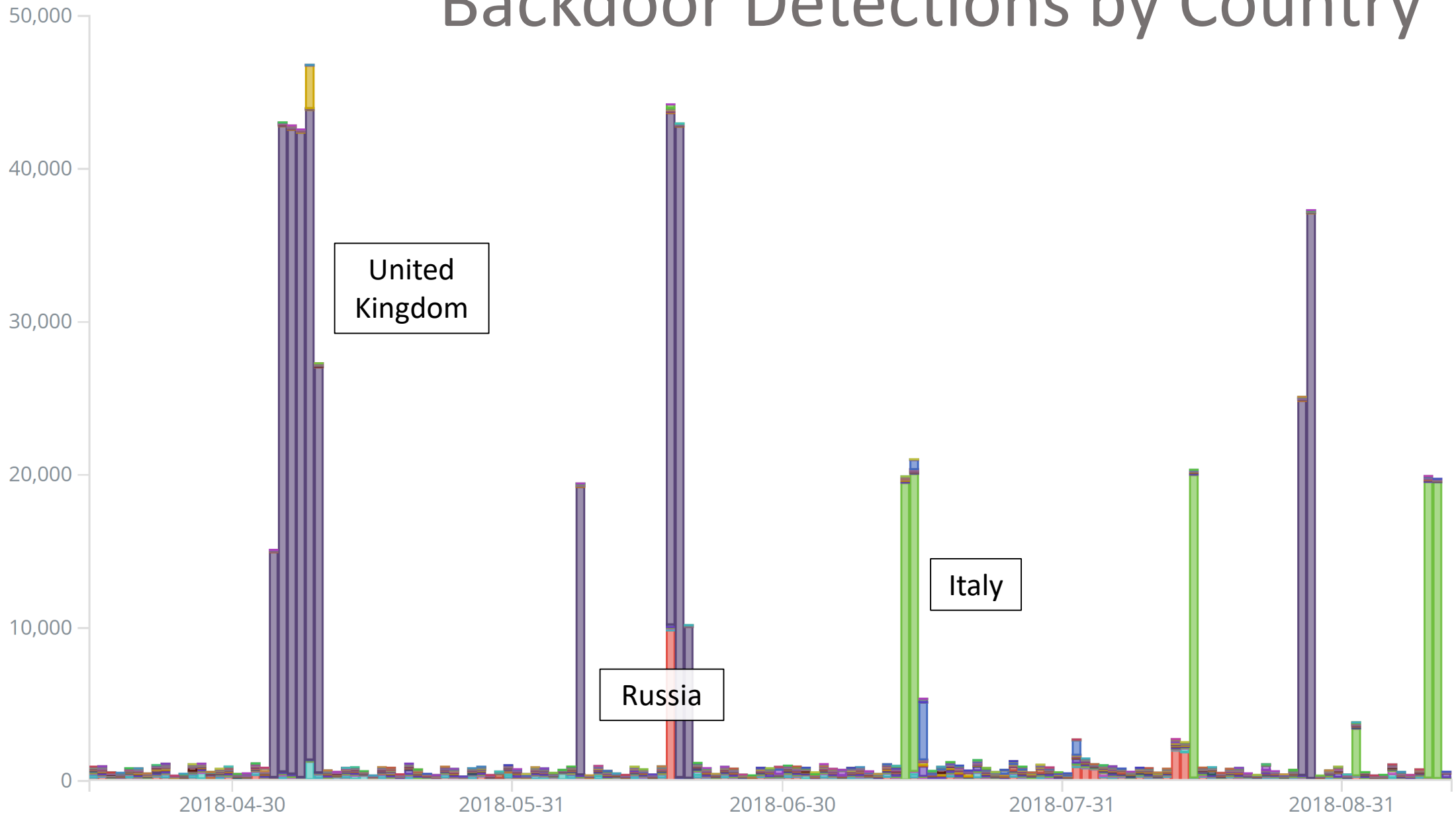
Worm Detections by Country



Virus Detections by Country



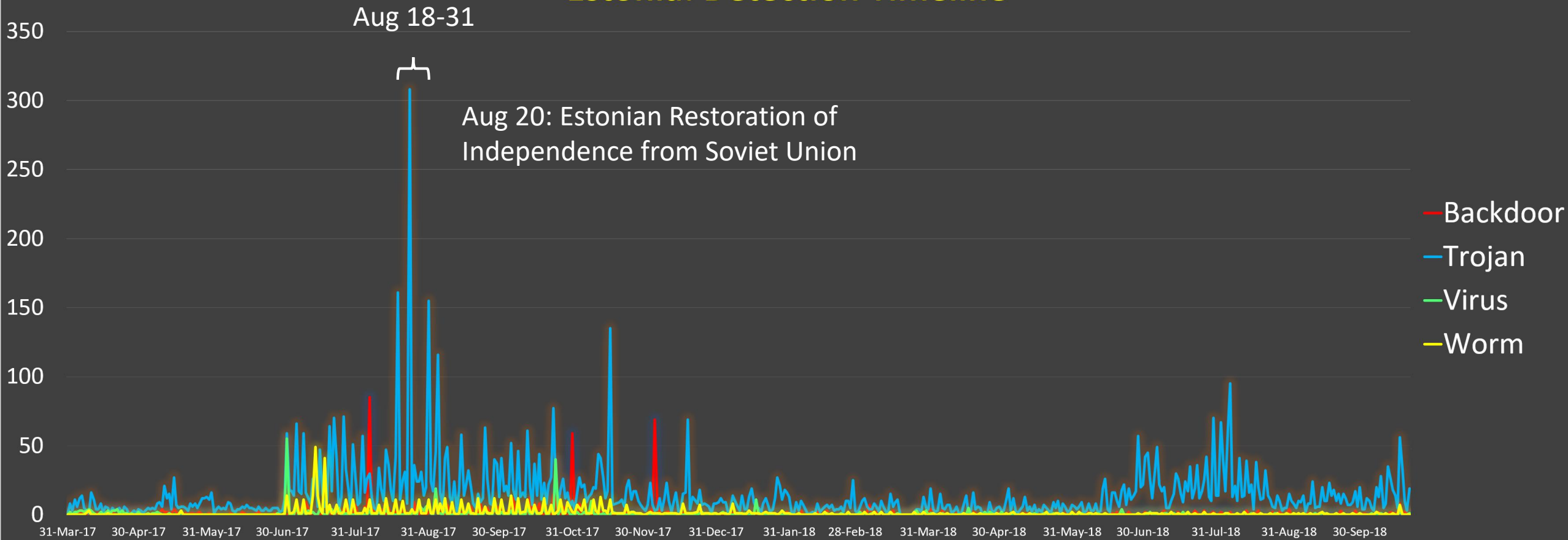
Backdoor Detections by Country



Japan: Detection Timeline



Estonia: Detection Timeline





Donald J. Trump ✓

@realDonaldTrump

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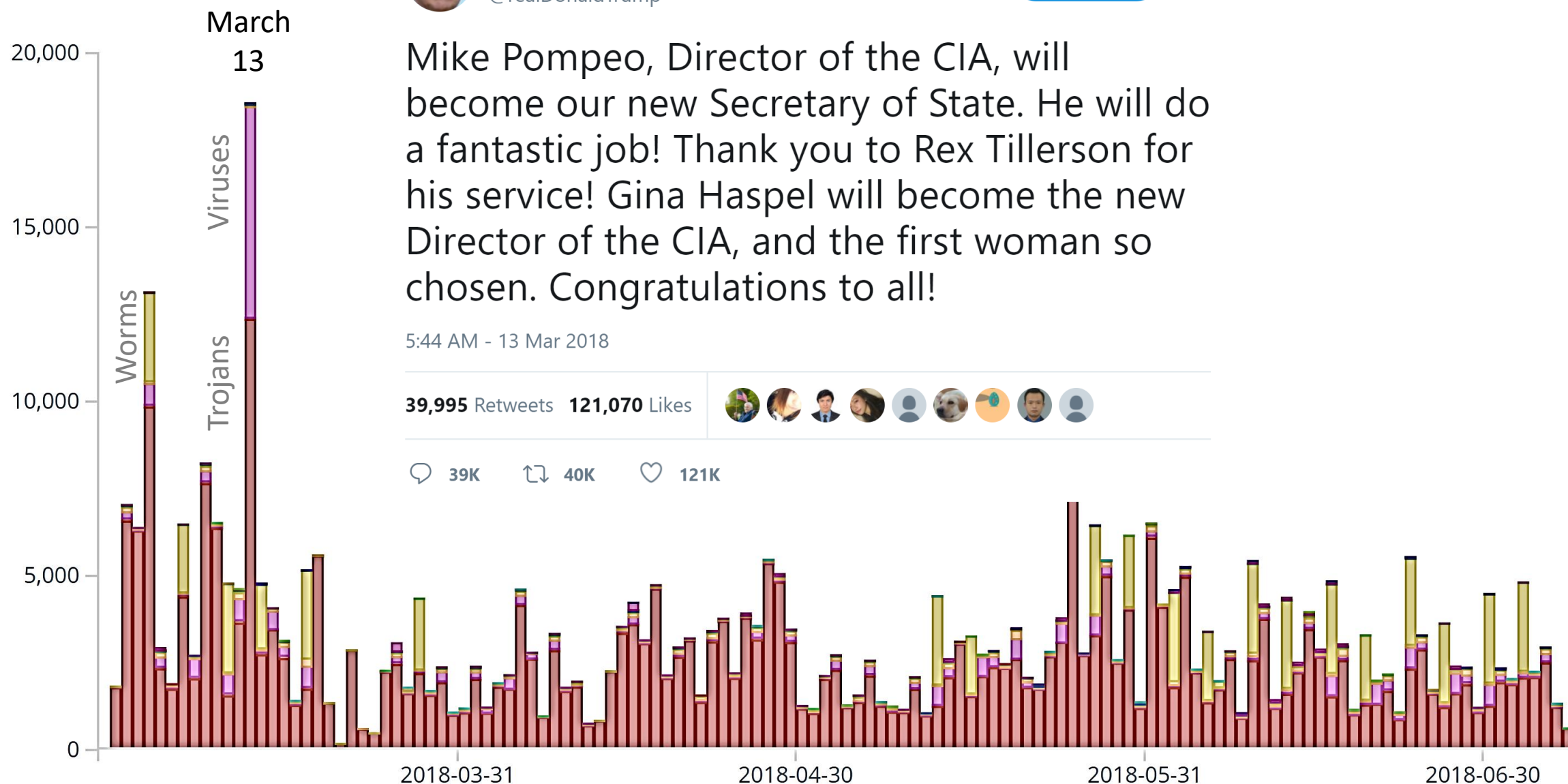
Mike Pompeo, Director of the CIA, will become our new Secretary of State. He will do a fantastic job! Thank you to Rex Tillerson for his service! Gina Haspel will become the new Director of the CIA, and the first woman so chosen. Congratulations to all!

5:44 AM - 13 Mar 2018

39,995 Retweets 121,070 Likes



39K 40K 121K





EAST ASIA

March 31, 2018 9:04 PM

Reuters

US, South Korea Begin Annual Joint Military Exercises

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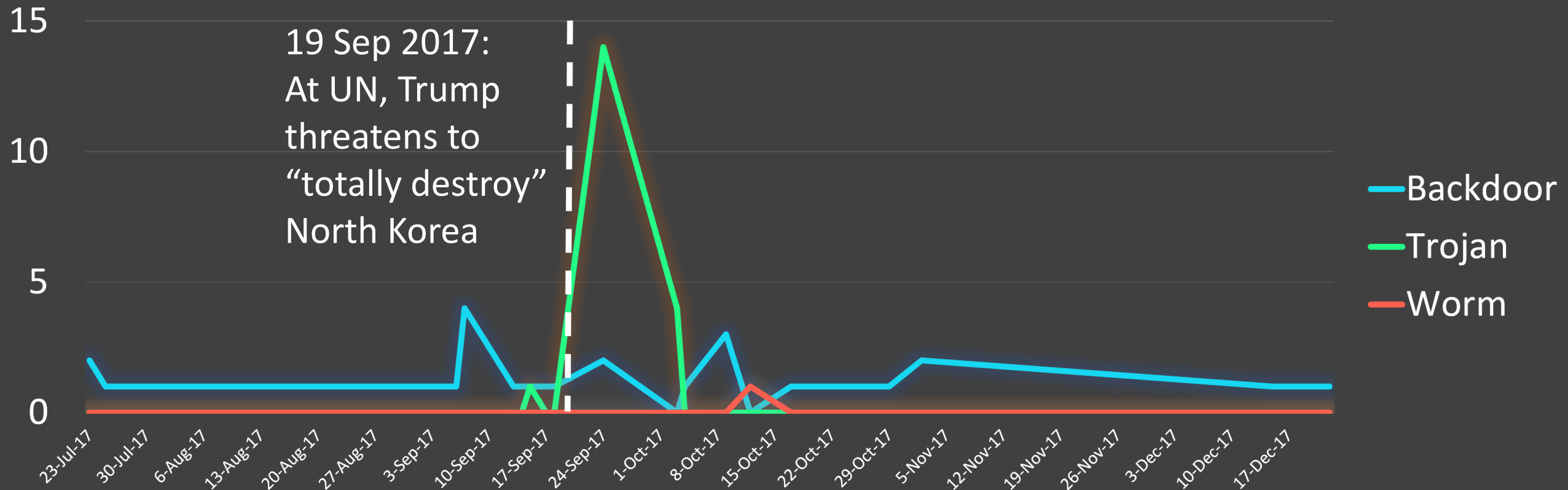


Print



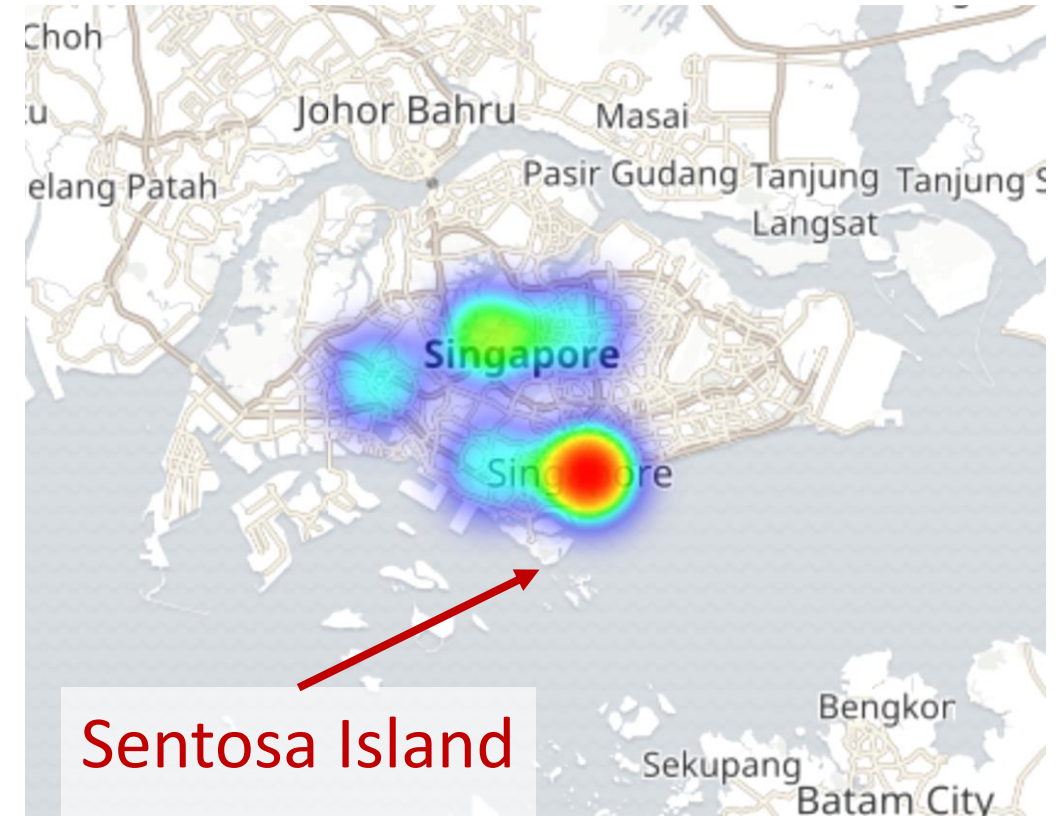
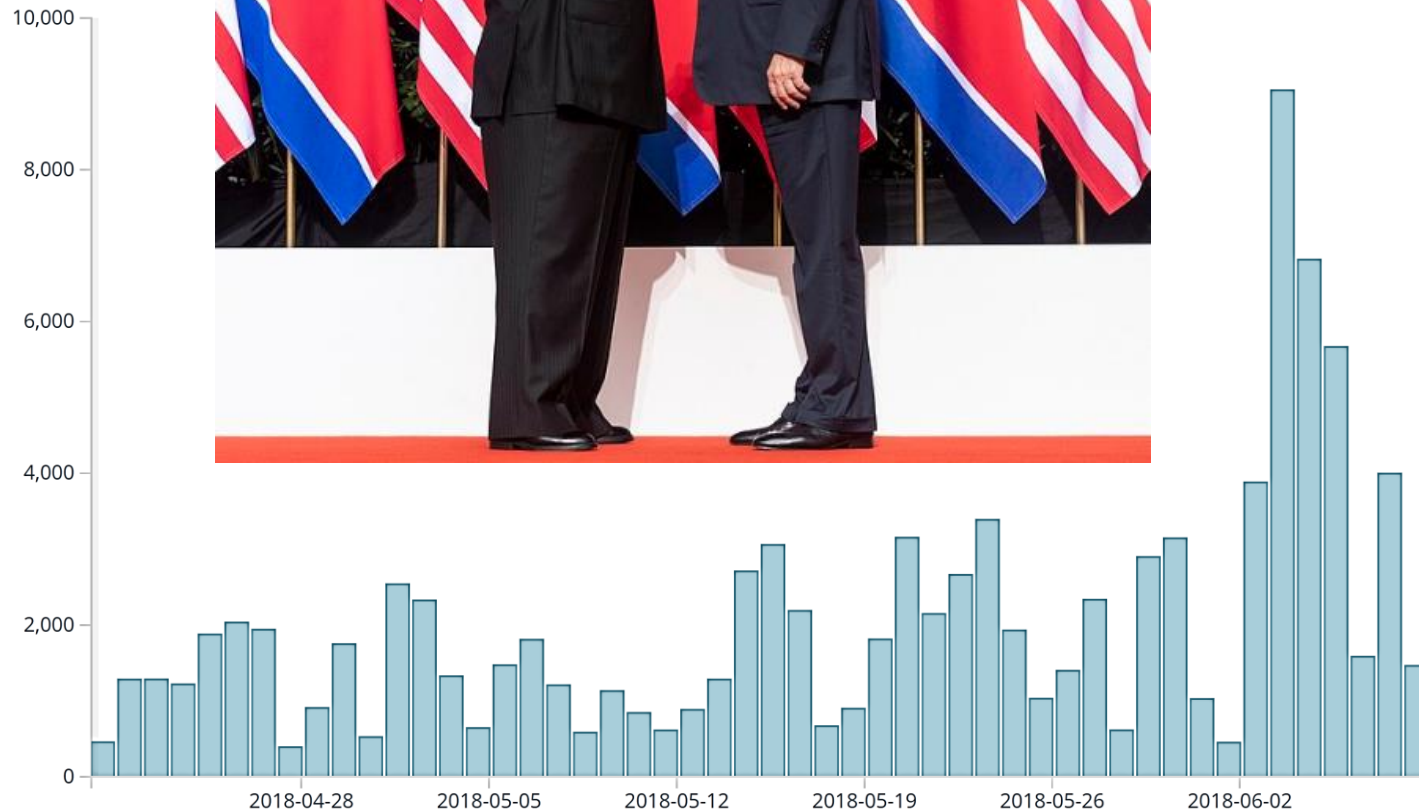
FILE - South Korean marines take part in a U.S.-South Korea joint landing operation drill as a part of the two countries' annual military training called Foal Eagle, in Pohang, South Korea, April 2, 2017.

North Korea: Detection Timeline





June 12, 2018: Trump-Kim Summit in Singapore



Bloomberg

Trump Plans July Meeting With Vladimir Putin

By [Jennifer Jacobs](#), [Margaret Talev](#), and [Toluse Olorunnipa](#)

June 20, 2018, 7:18 PM EDT

Updated on June 21, 2018, 2:21 PM EDT

- Possibilities: Before NATO summit or after Trump's U.K. visit
- Trump wants Russia to be restored to international community



Trump and Putin in Nov. 2017. Photographer: Jorge Silva/AFP via Getty Images



Virus
Detections
June 20-21

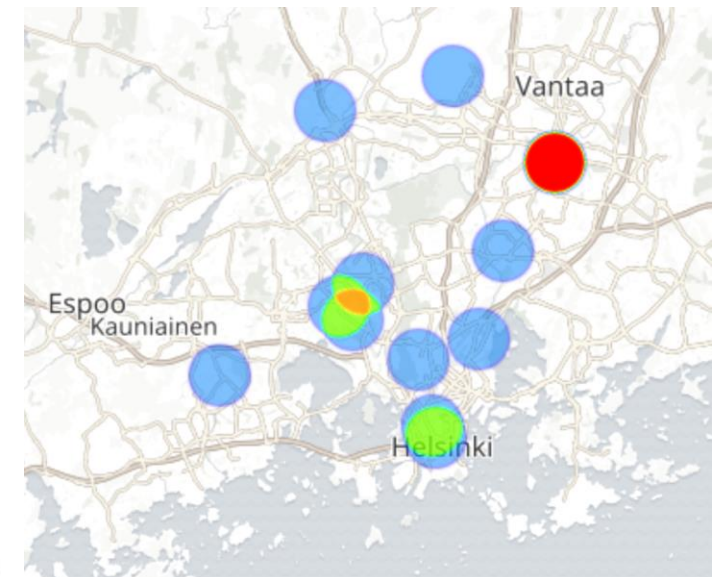
Vantaa likely to host Trump-Putin summit - Helsinki mayor

POLITICS

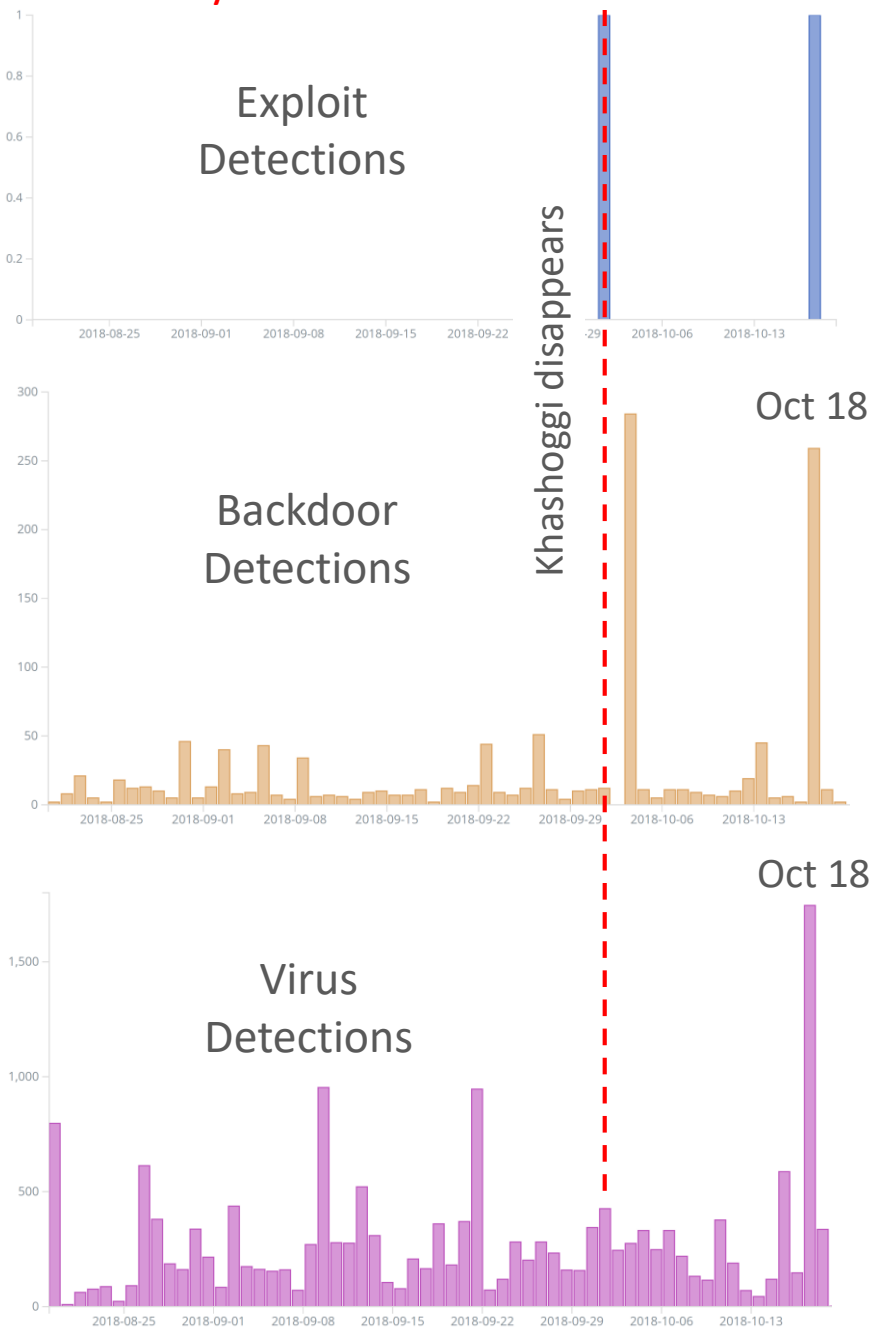
6/29/2018, 11:58 AM



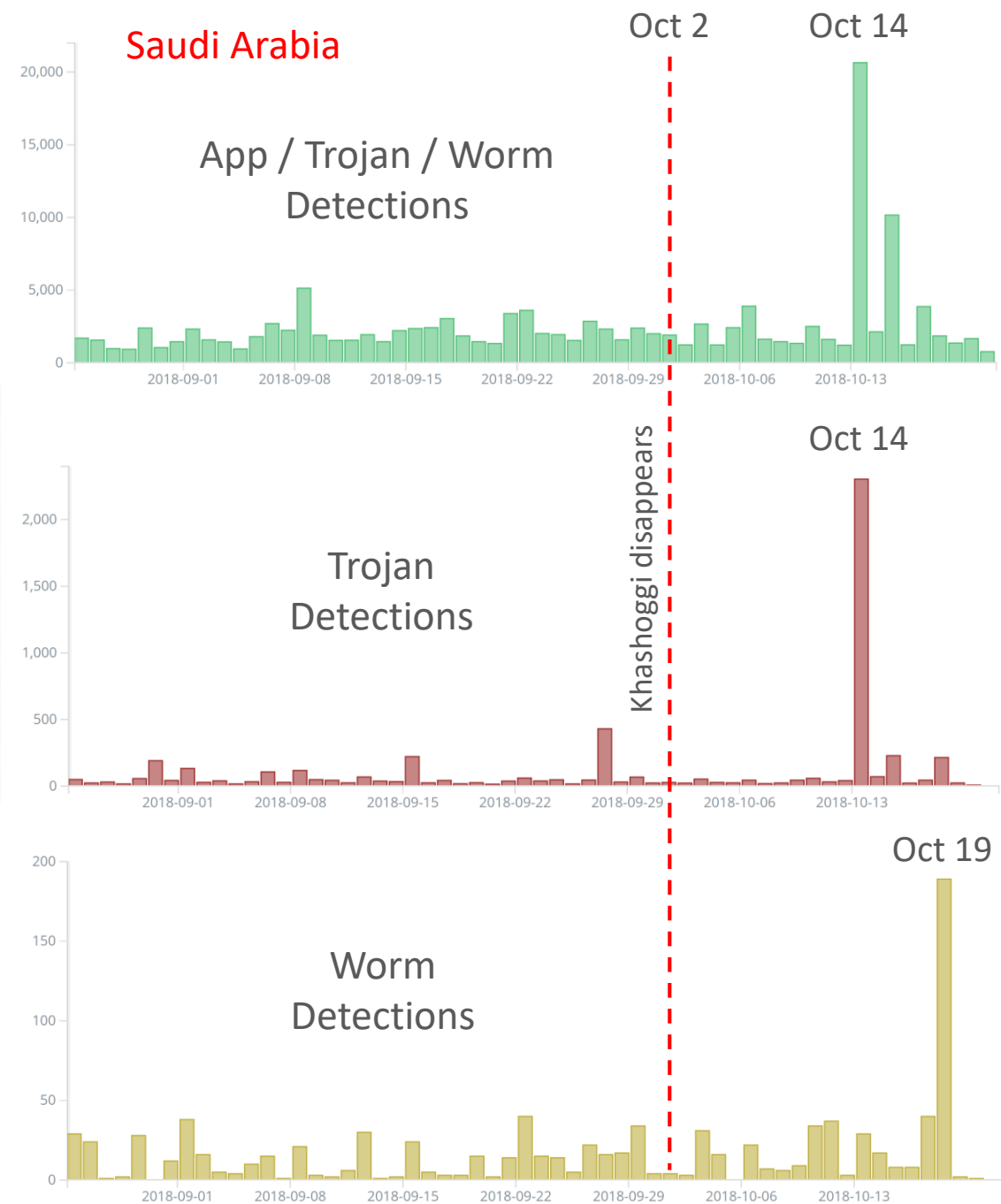
The highly anticipated meeting between the presidents of the United States and Russia, Donald Trump and Vladimir Putin is likely to be held in the city of Vantaa, a part of the inner core of the Finnish Capital Region, the mayor of Helsinki Jan Vapaavuori said on Friday. "With high probability, the summit will take place in Vantaa," Vapaavuori told the Helsingin Sanomat newspaper.



Turkey



Saudi Arabia



China

#Tankman2018: hero of Tiananmen protest remembered across globe

On the 29th anniversary of the crackdown in Beijing, protesters are reenacting the historic face-off between a lone man and a Chinese tank

Lily Kuo

Mon 4 Jun 2018 01:12 EDT



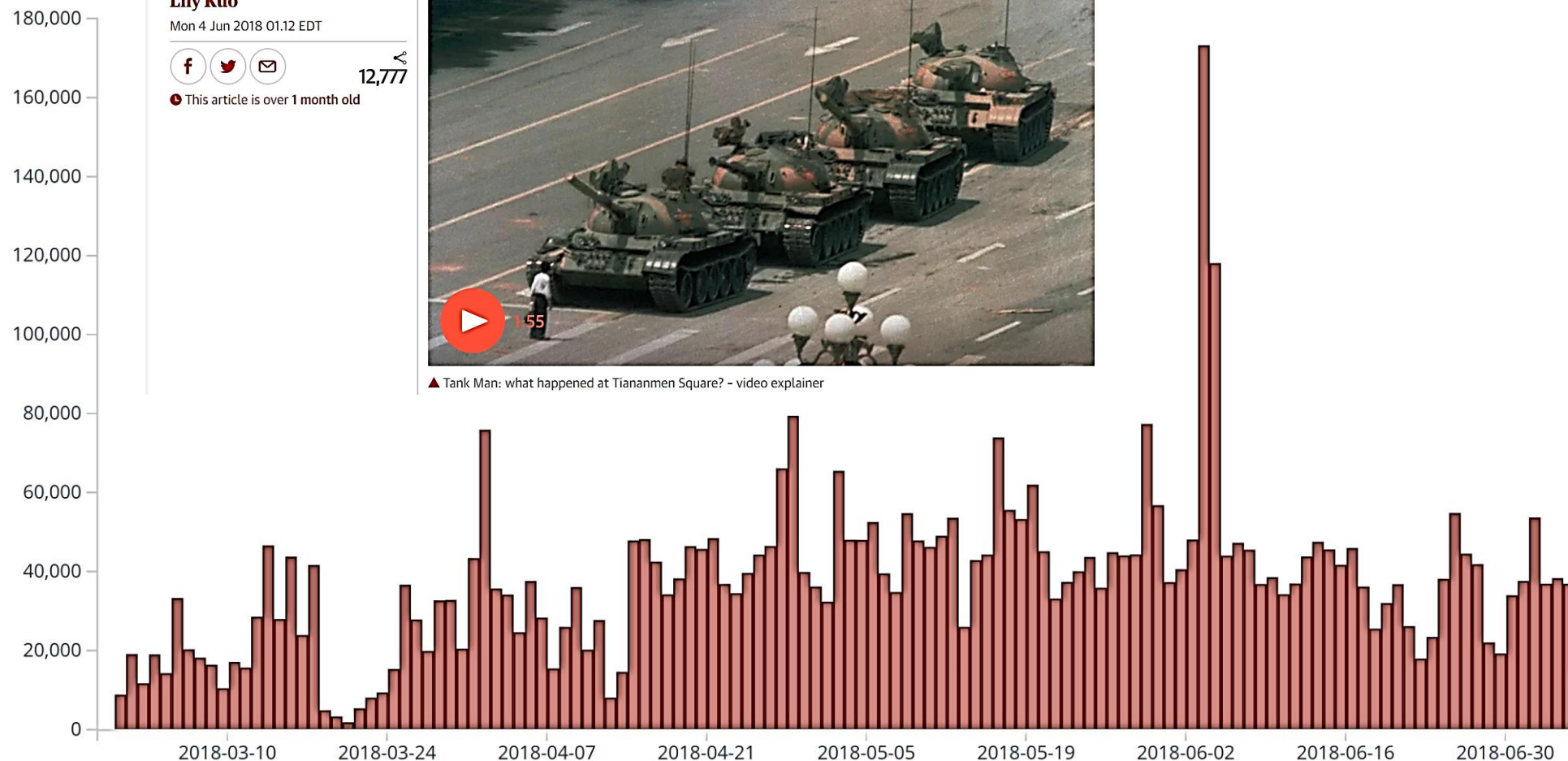
12,777

This article is over 1 month old



▲ Tank Man: what happened at Tiananmen Square? - video explainer

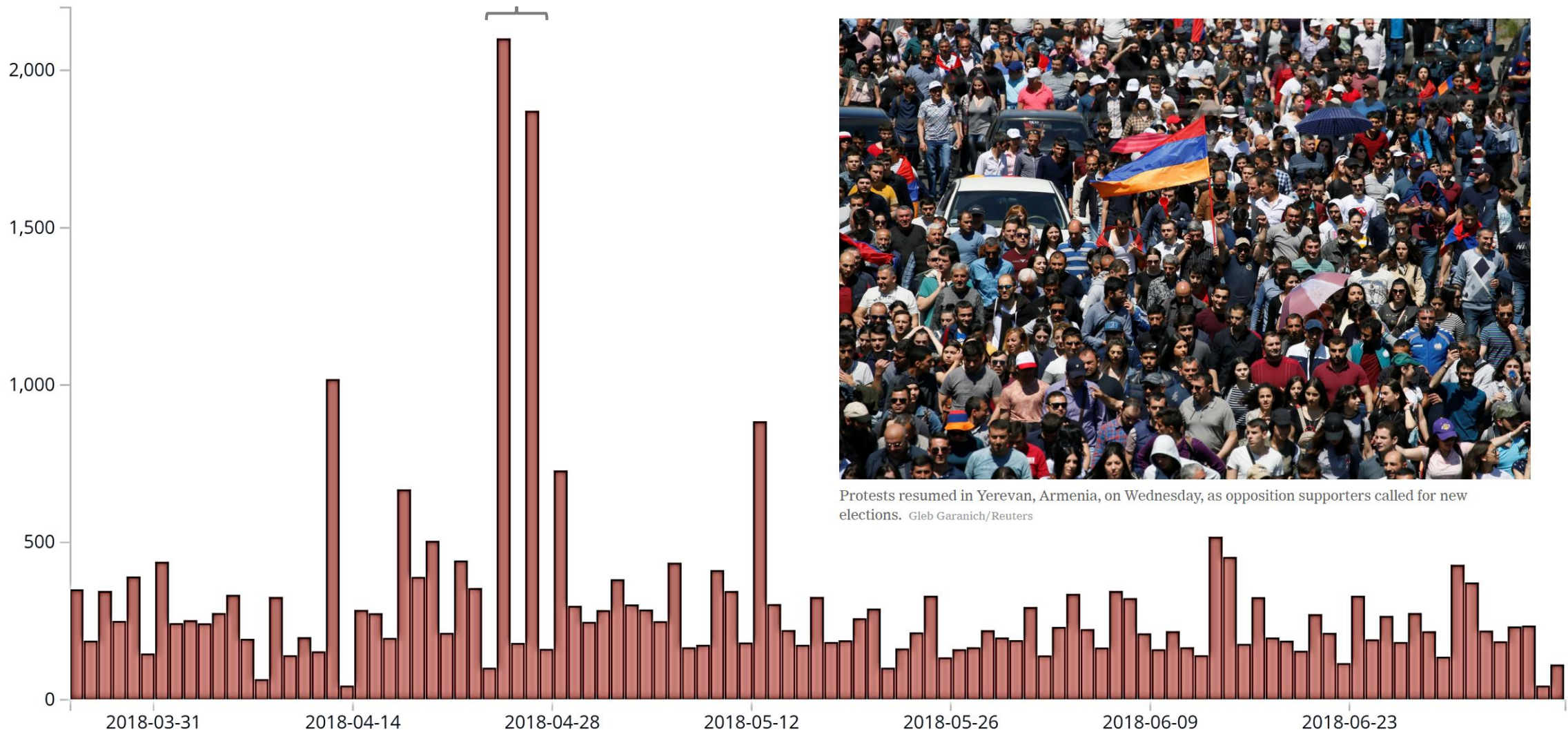
June 4



The New York Times April 25, 2018

*Protests Erupt Anew in Armenia
Amid Political Deadlock*

April 25-27



Protests resumed in Yerevan, Armenia, on Wednesday, as opposition supporters called for new elections. Gleb Garanich/Reuters

Amnesty accuses Nigerian troops of raping women rescued from Boko Haram

By Bukola Adebayo, CNN

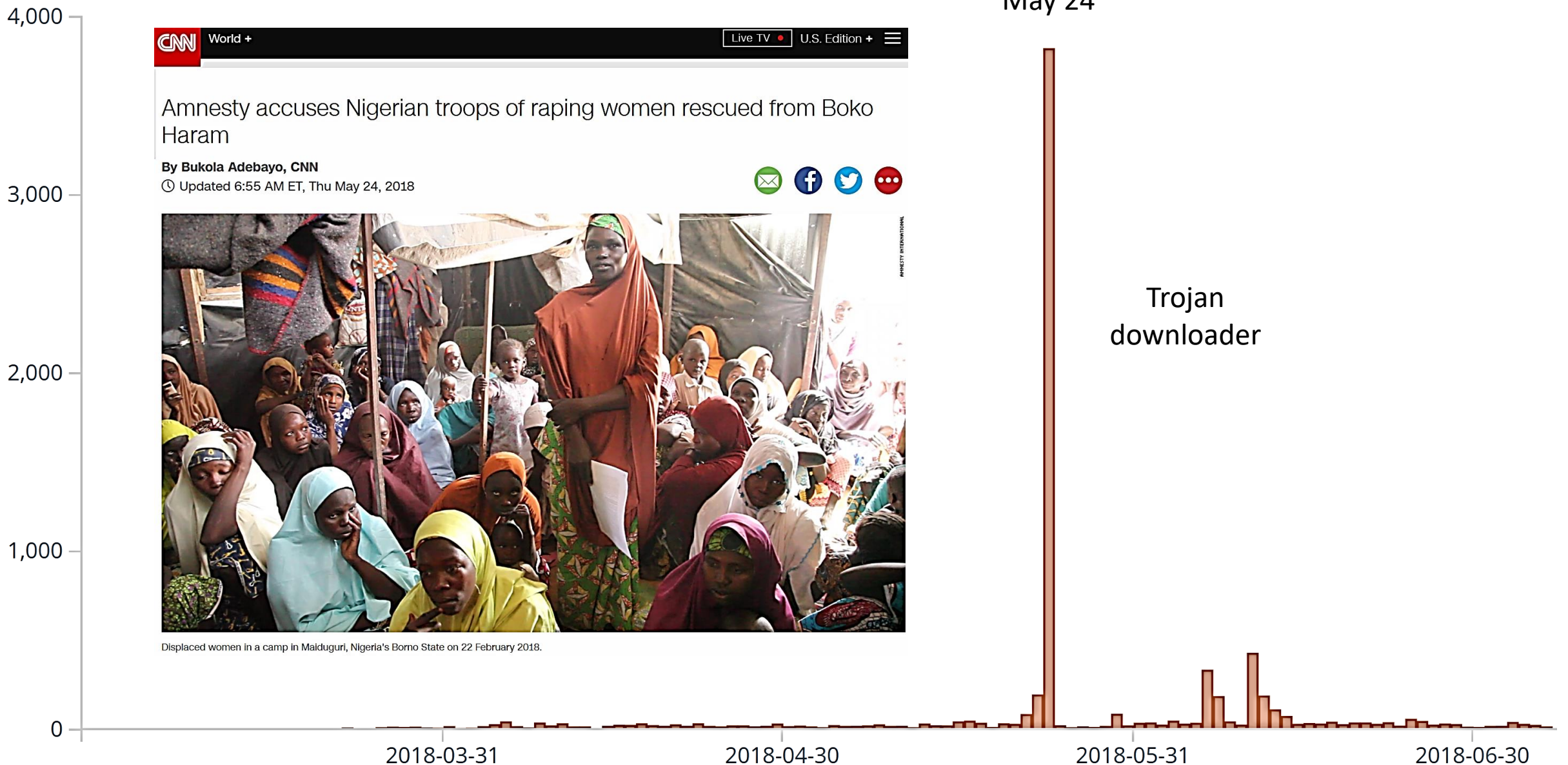
Updated 6:55 AM ET, Thu May 24, 2018



Displaced women in a camp in Maiduguri, Nigeria's Borno State on 22 February 2018.

May 24

Trojan
downloader



BELARUS

June 14, 2018 19:18 GMT

RFE/RL's Belarus Service

Belarus Passes Legislation Against 'Fake News' Media

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5



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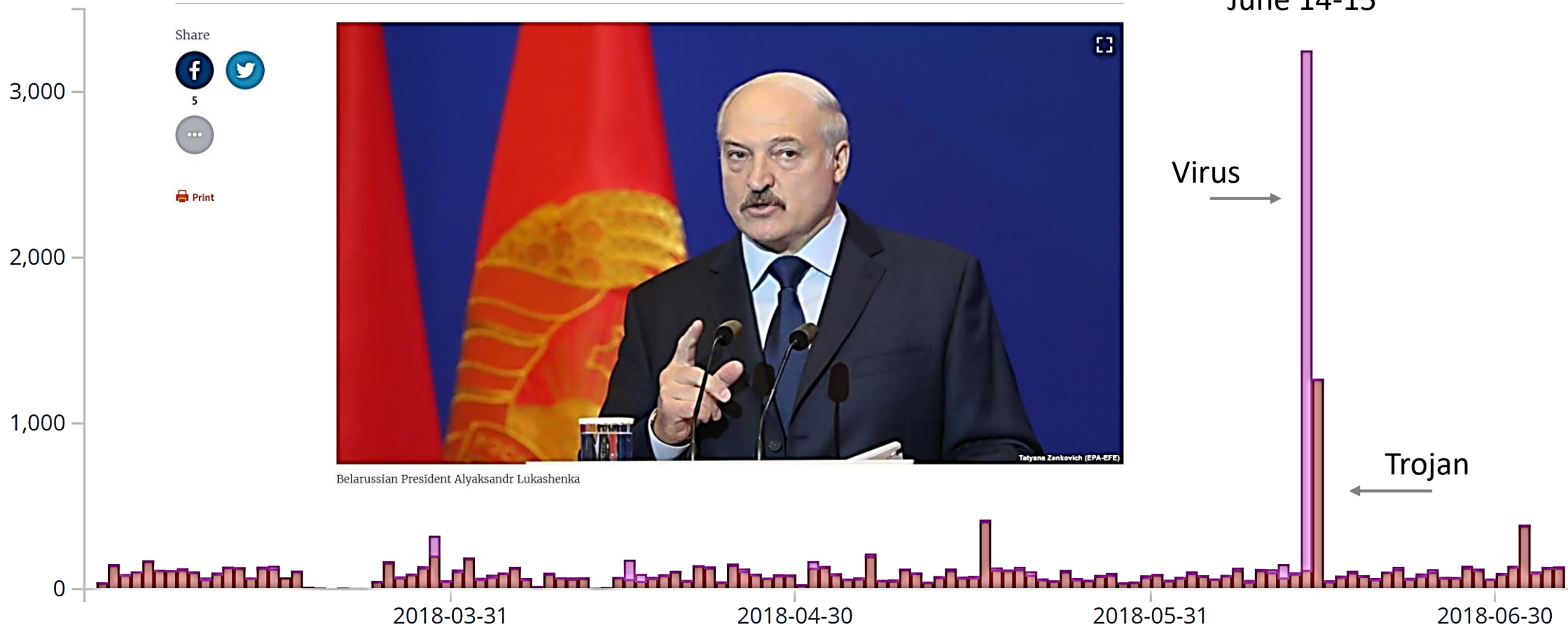
Belarusian President Alyaksandr Lukashenka

Tatyana Zenkovich (EPA-EFE)

June 14-15

Virus

Trojan



Nepal Scraps Chinese Contract, Will Build Mega Power Project On Its Own

Nepal's finance minister made the announcement to scrap the hydel power project with the Chinese firm while releasing the first federal budget for fiscal 2019

World | Edited by Debanish Achom (with inputs from ANI) | Updated: May 29, 2018 21:09 IST

• Doctor Finds One Powerful Step To Digestion Health
(Gundry MD)

• 5 Best Incontinence Underwear for Adults (Hexa)

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TRENDING



Image Credit: istockphoto.com/olli0815



EMAIL

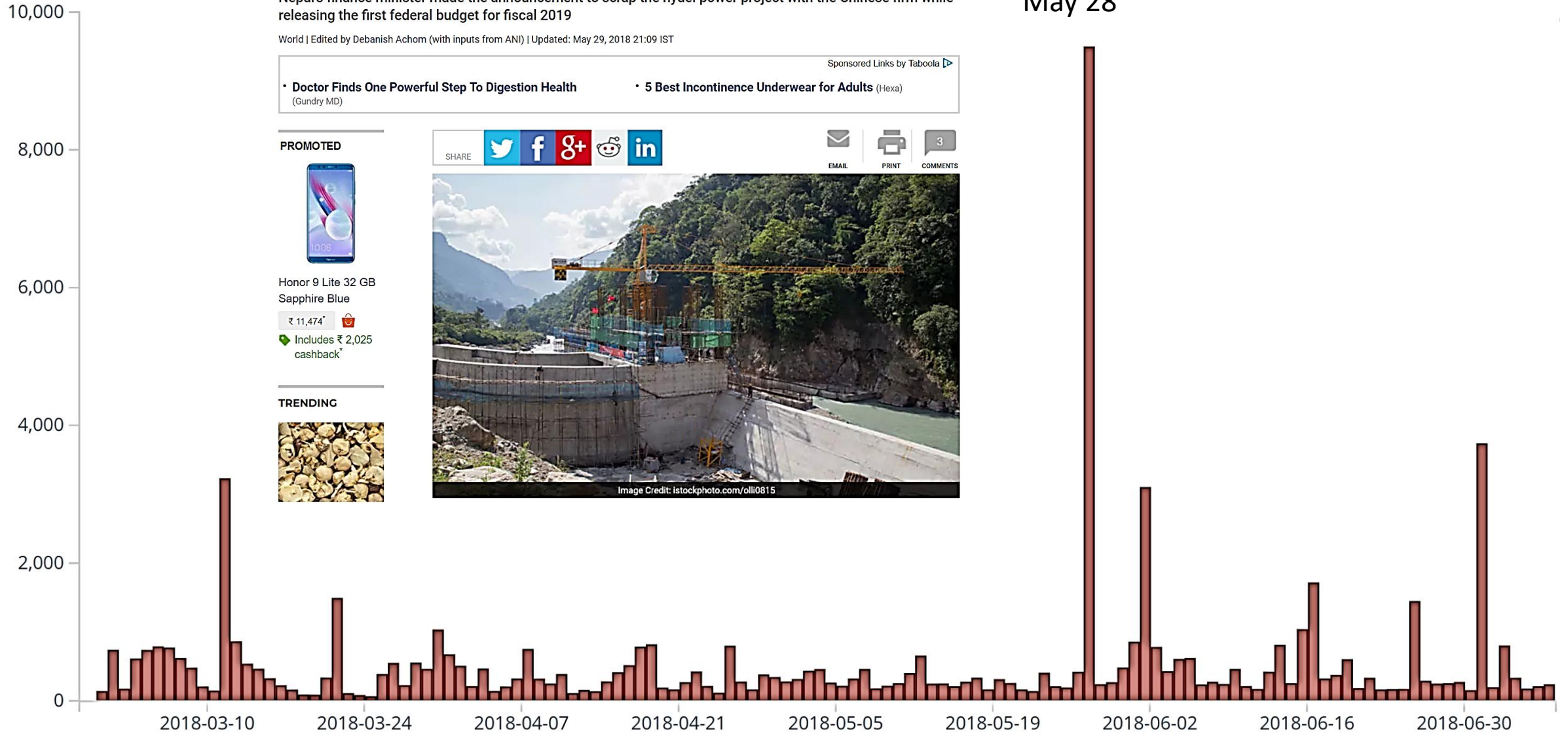


PRINT



COMMENTS

May 28



EU adds Bahamas, U.S. Virgin Islands, St Kitts to tax haven list

Reuters Staff 13/03/2018

1 MIN READ



BRUSSELS (Reuters) - European Union finance ministers added the Bahamas, the U.S. Virgin Islands and Saint Kitts and Nevis to the EU blacklist of tax havens on Tuesday, an EU document said.



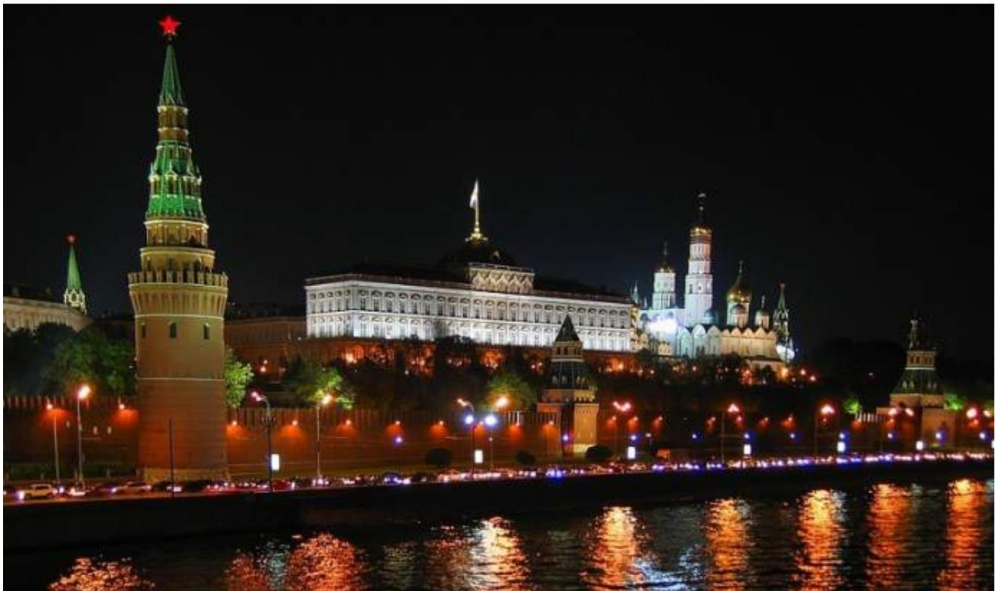
March 12-13

Saint Kitts
and Nevis
Detections



Russia Considers Croatia's Decision to Be Unfriendly Act

By HINA, 27 Mar 2018, 09:07 AM [Politics](#)



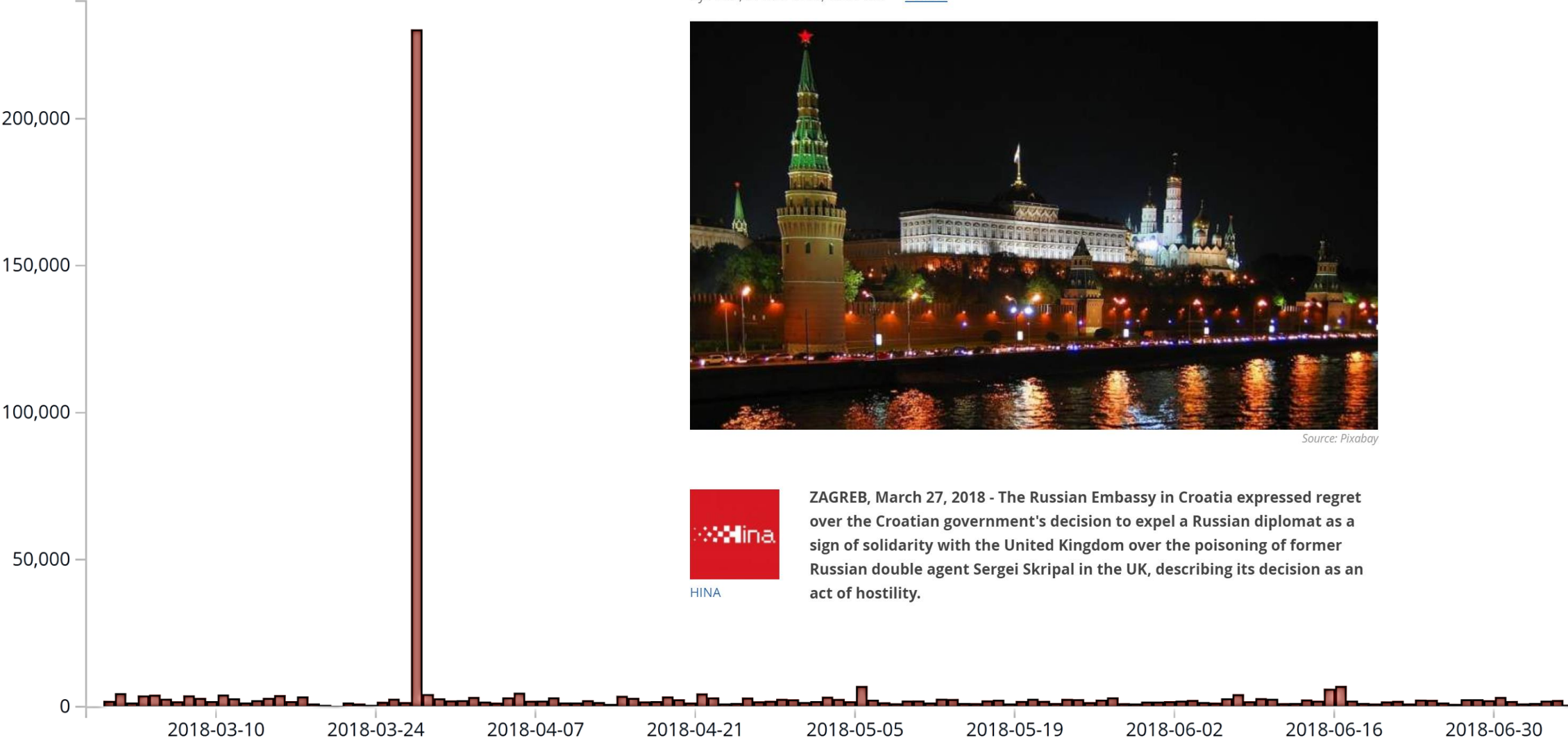
Source: Pixabay



HINA

ZAGREB, March 27, 2018 - The Russian Embassy in Croatia expressed regret over the Croatian government's decision to expel a Russian diplomat as a sign of solidarity with the United Kingdom over the poisoning of former Russian double agent Sergei Skripal in the UK, describing its decision as an act of hostility.

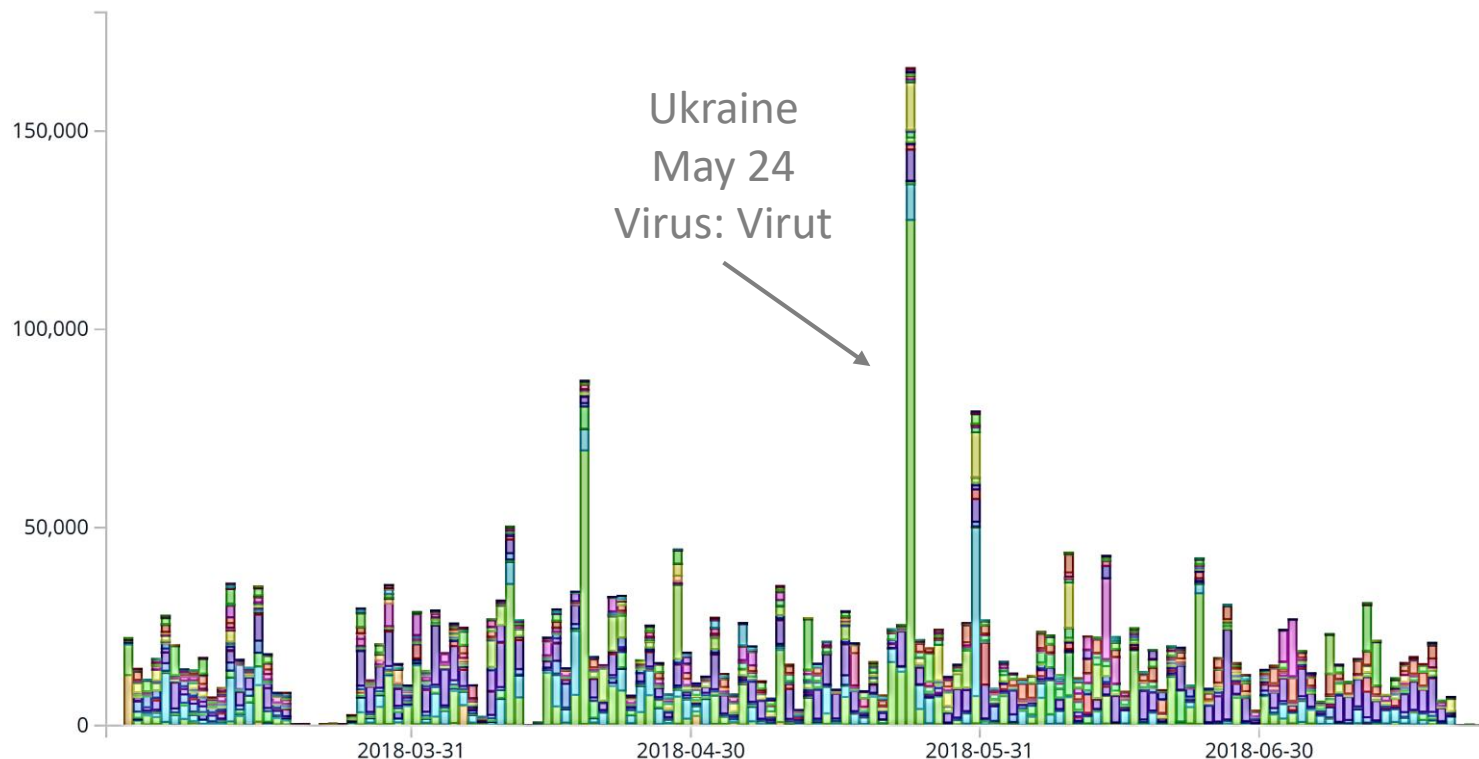
March 28



UKRAINE

Deadly Spike In Fighting Reported In Eastern Ukraine

May 22, 2018 01:27 GMT



engadget

Ukraine claims it's the target of a massive Russian cyberattack

Hackers could disrupt this weekend's Champions League final in Kiev.

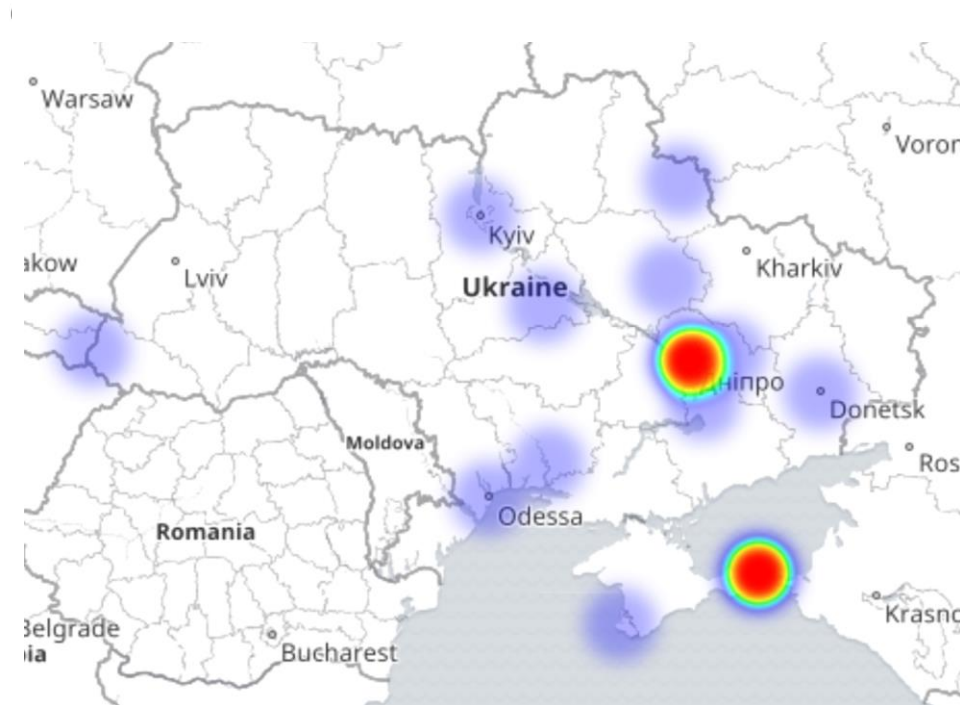
Kris Holt, @krisholt

05.23.18 in [Security](#)

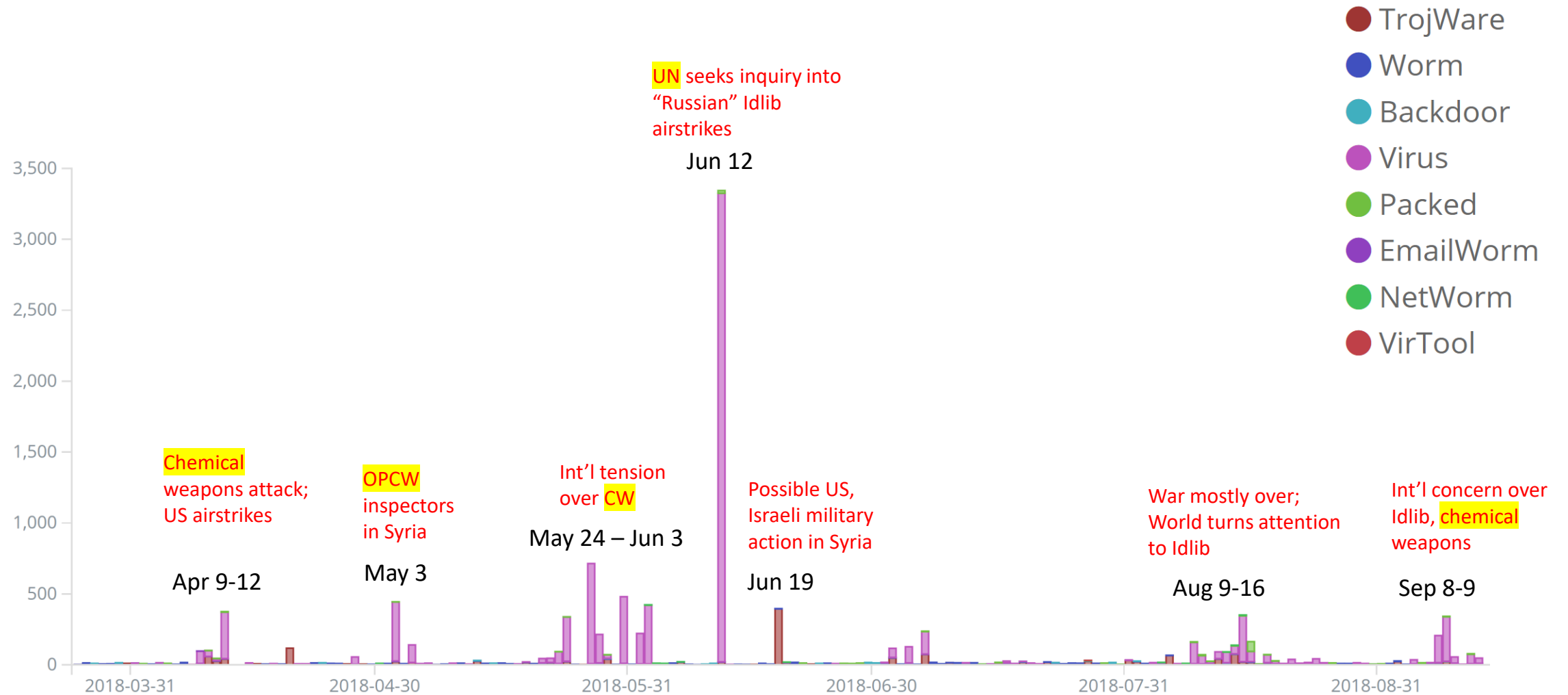
UKRAINE

Ukraine Showcases Javelin Firepower From United States

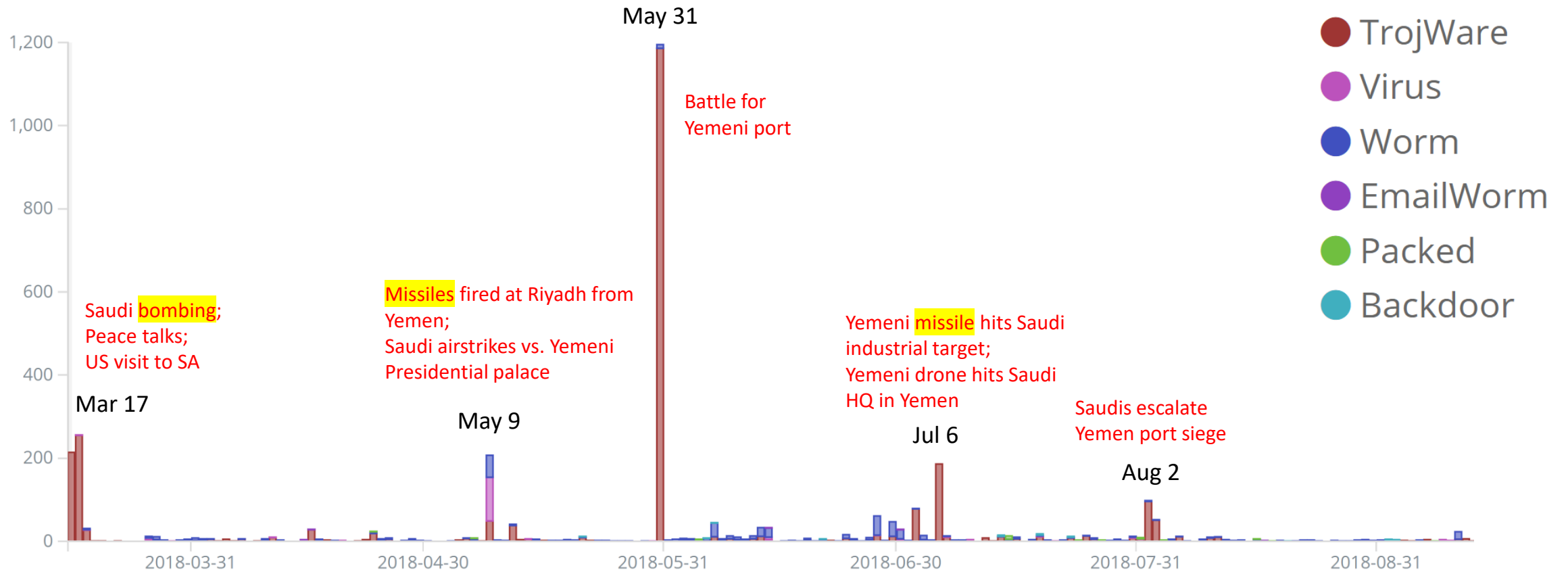
Last Updated: May 23, 2018 05:29 GMT



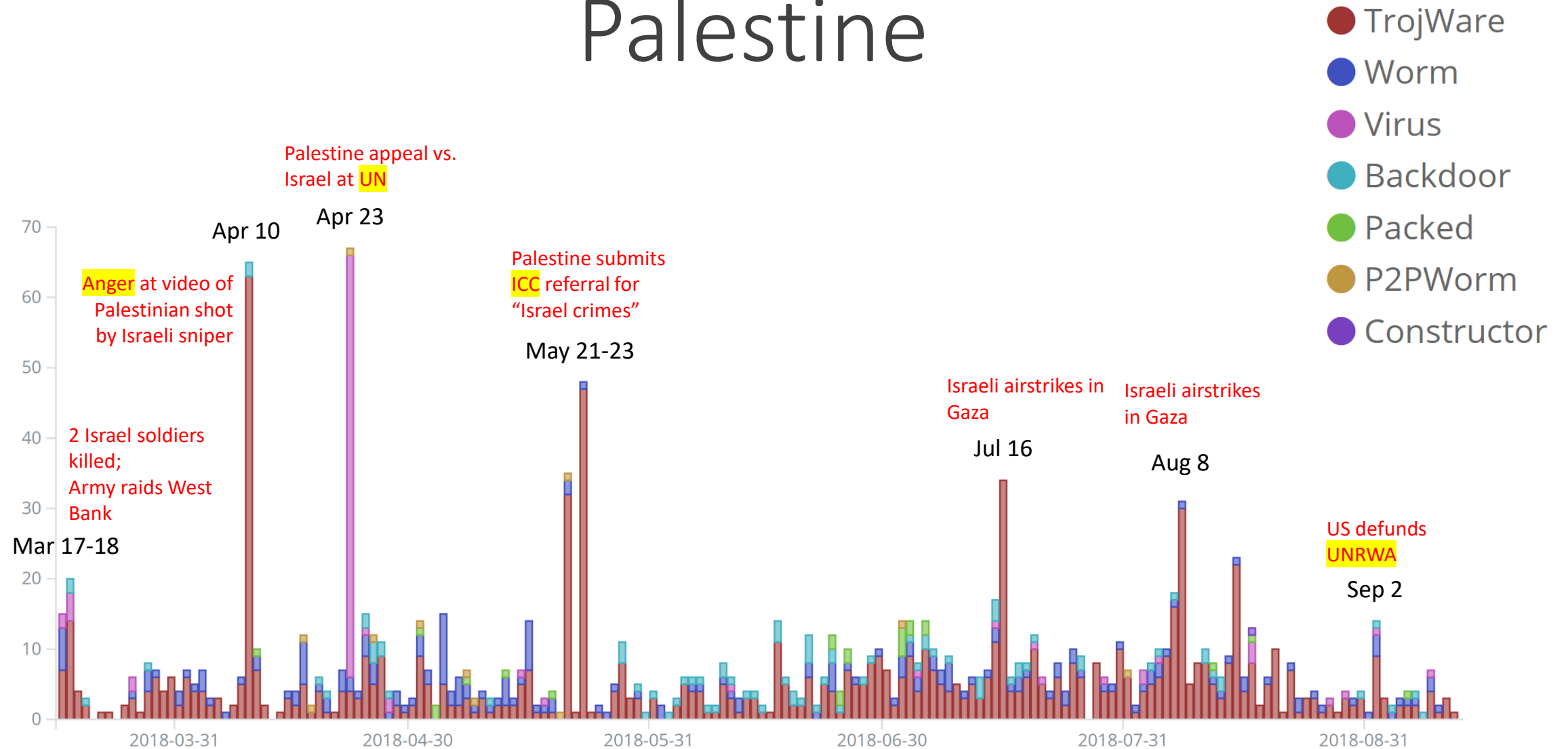
Syria



Yemen



Palestine



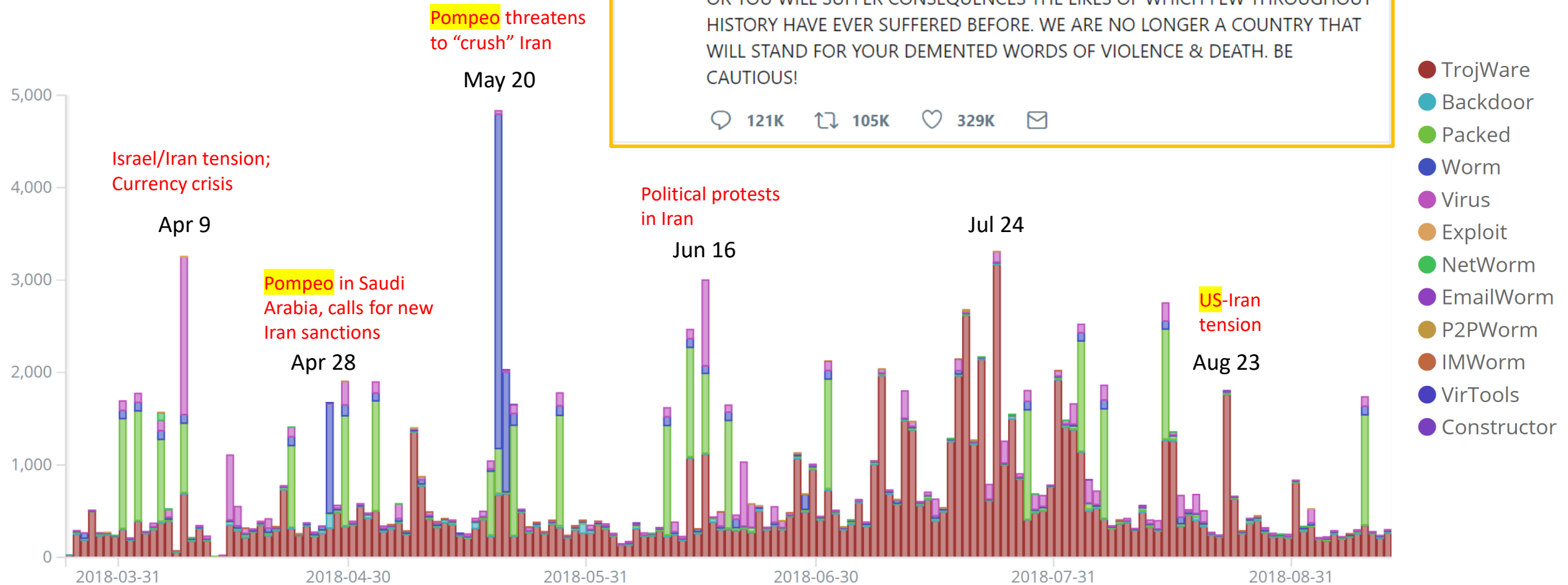
Iran



Donald J. Trump @realDonaldTrump · Jul 23

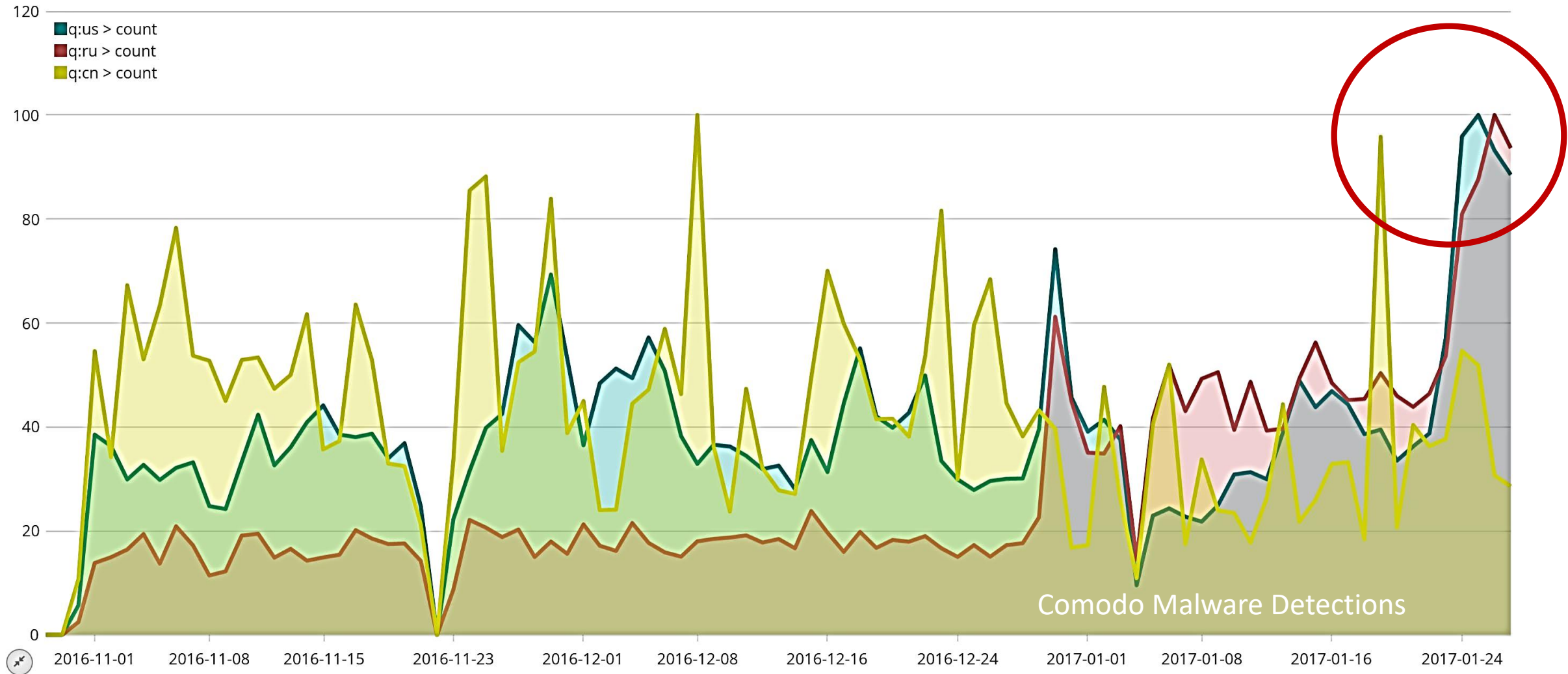
To Iranian President Rouhani: NEVER, EVER THREATEN THE UNITED STATES AGAIN OR YOU WILL SUFFER CONSEQUENCES THE LIKES OF WHICH FEW THROUGHOUT HISTORY HAVE EVER SUFFERED BEFORE. WE ARE NO LONGER A COUNTRY THAT WILL STAND FOR YOUR DEMENTED WORDS OF VIOLENCE & DEATH. BE CAUTIOUS!

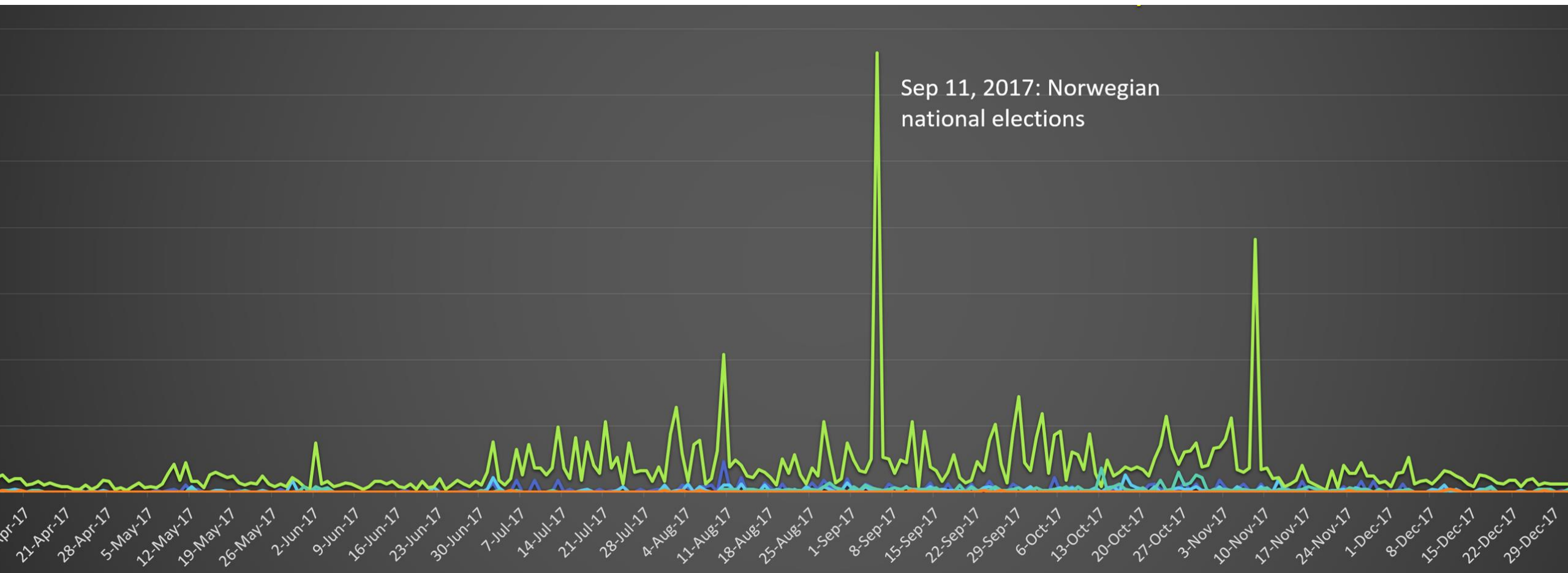
121K 105K 329K

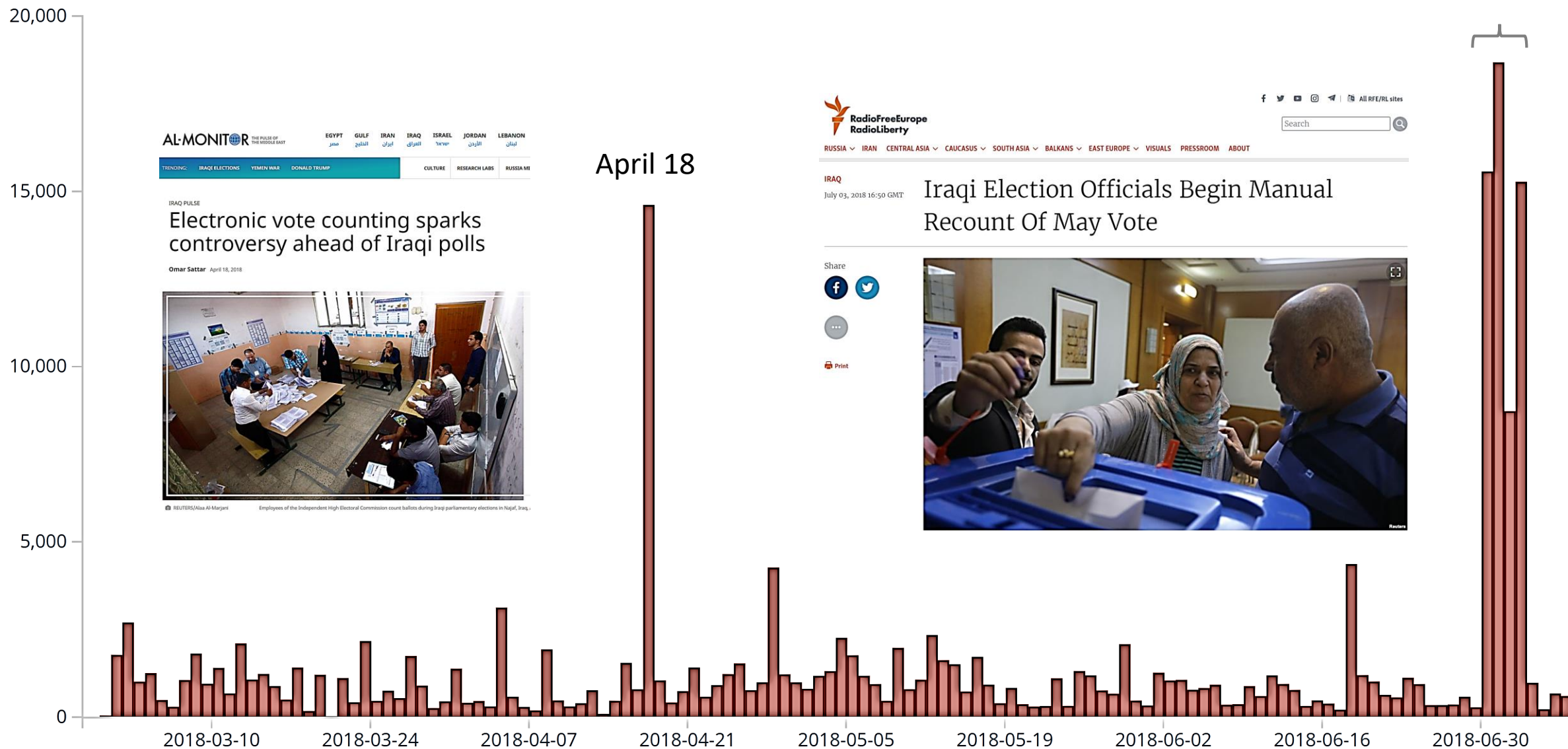


All USA / Russia / China detections

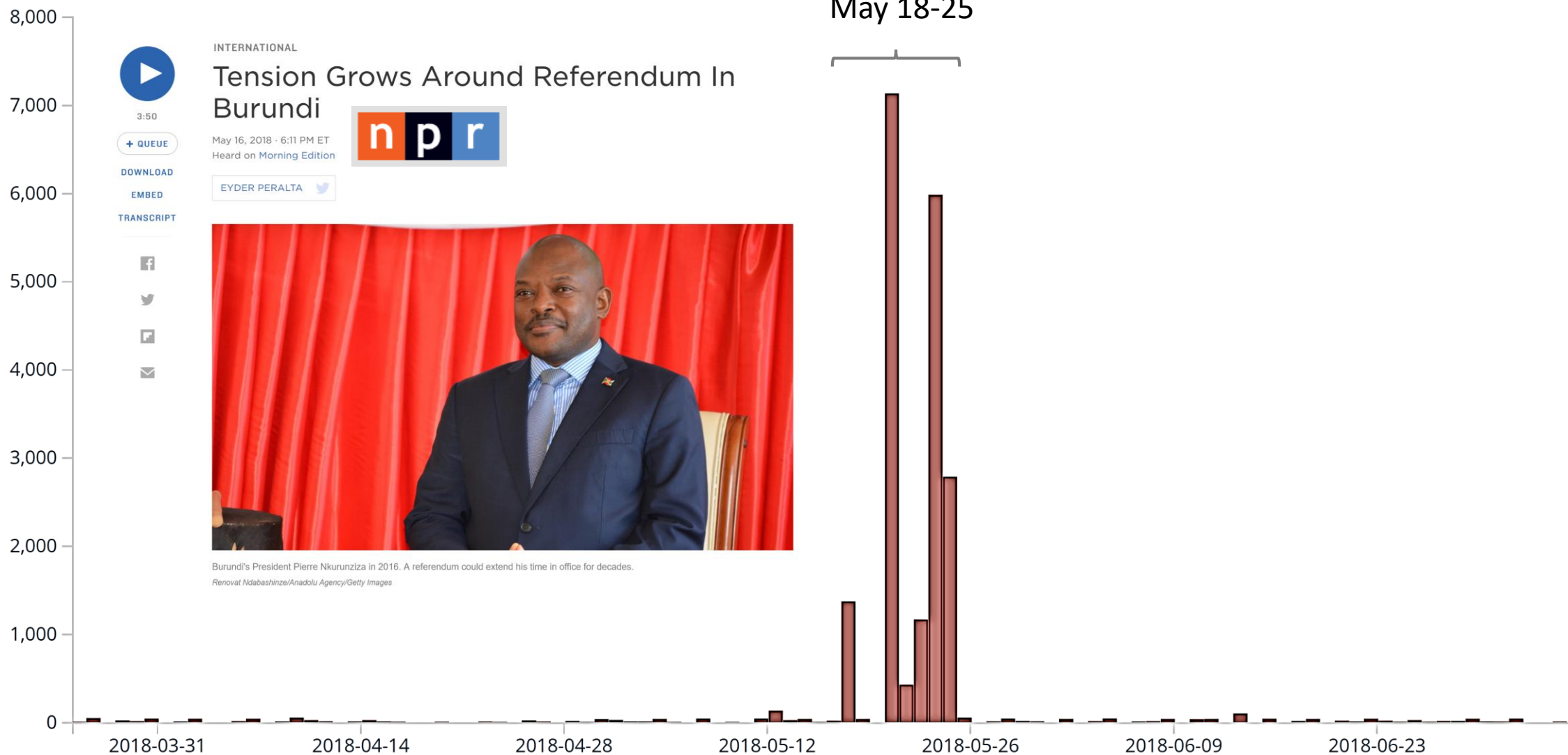
U.S. Inauguration
Jan 20, 2017









May 18-25





Gubernatorial Election




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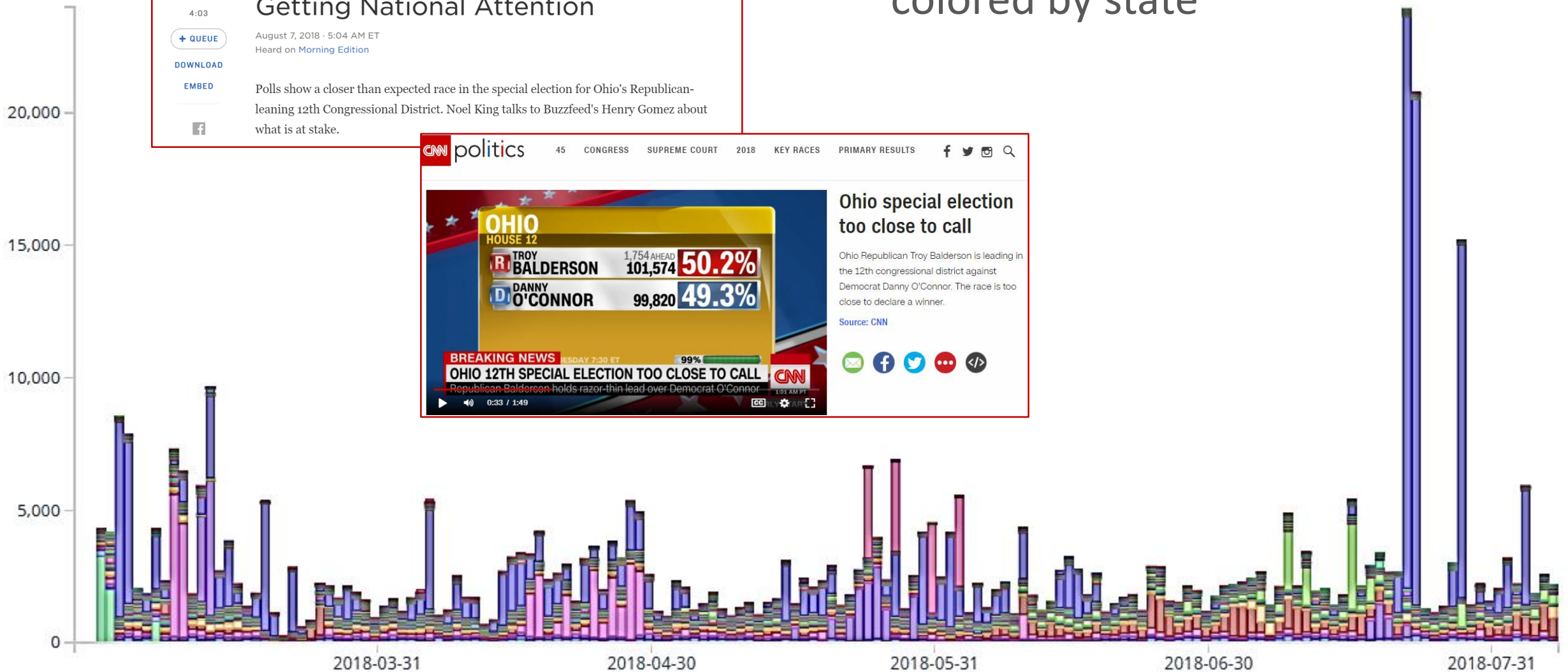

 4:03
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POLITICS
Ohio's Special House Election Is Getting National Attention
 August 7, 2018 - 5:04 AM ET
 Heard on [Morning Edition](#)

Polls show a closer than expected race in the special election for Ohio's Republican-leaning 12th Congressional District. Noel King talks to BuzzFeed's Henry Gomez about what is at stake.




USA: trojan detections colored by state

Ohio
Jul 22-Aug 4







politics


45 CONGRESS SUPREME COURT 2018 KEY RACES PRIMARY RESULTS


OHIO
HOUSE 12
TROY BALDERSON 1,754 AHEAD **101,574 50.2%**
DANNY O'CONNOR 99,820 **49.3%**

OHIO special election too close to call
 Ohio Republican Troy Balderson is leading in the 12th congressional district against Democrat Danny O'Connor. The race is too close to declare a winner.
 Source: [CNN](#)

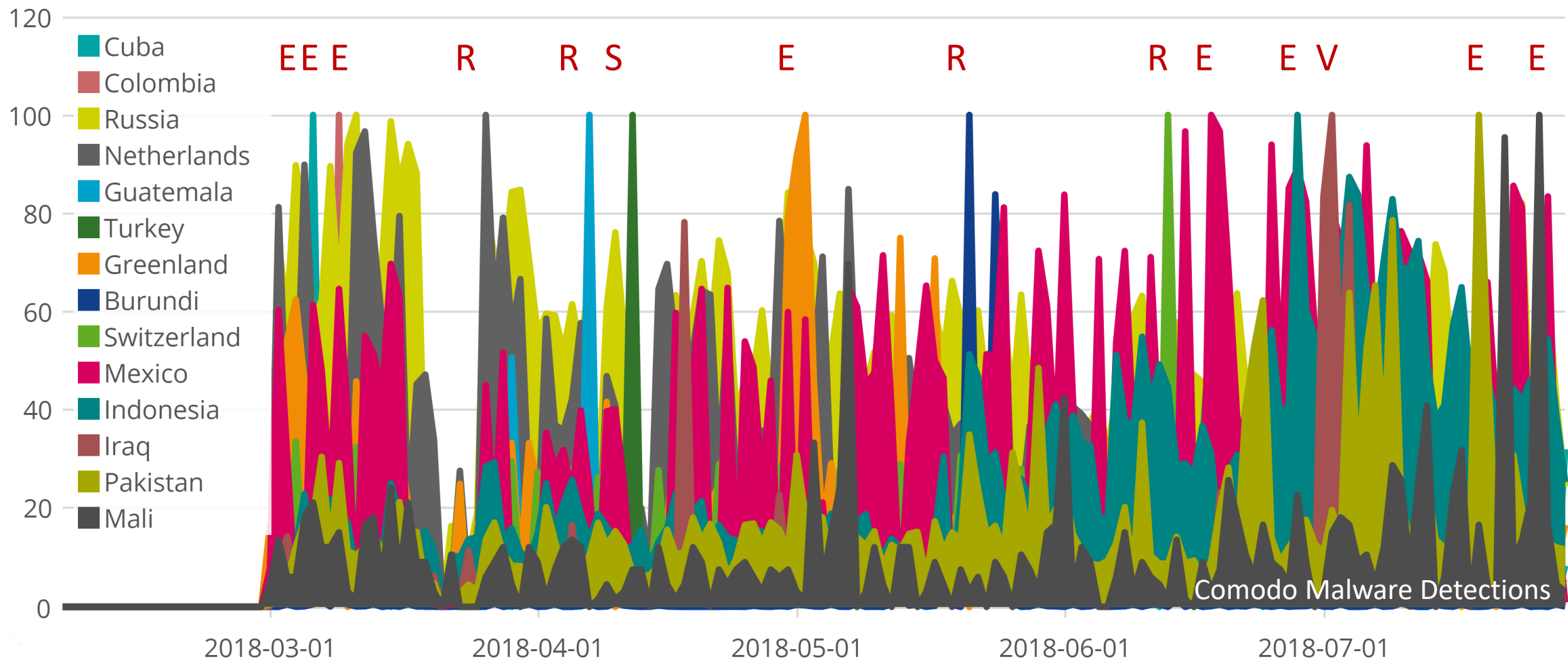






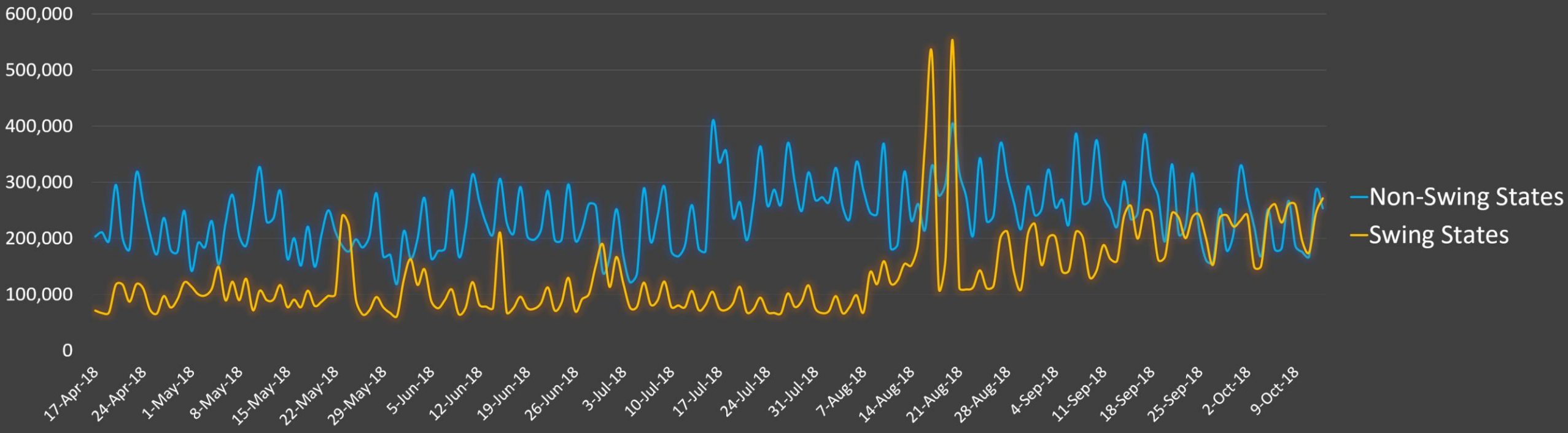
BREAKING NEWS WEDDAY 7:30 ET **OHIO 12TH SPECIAL ELECTION TOO CLOSE TO CALL**
 Republican Balderson holds razor-thin lead over Democrat O'Connor

0:33 / 1:49

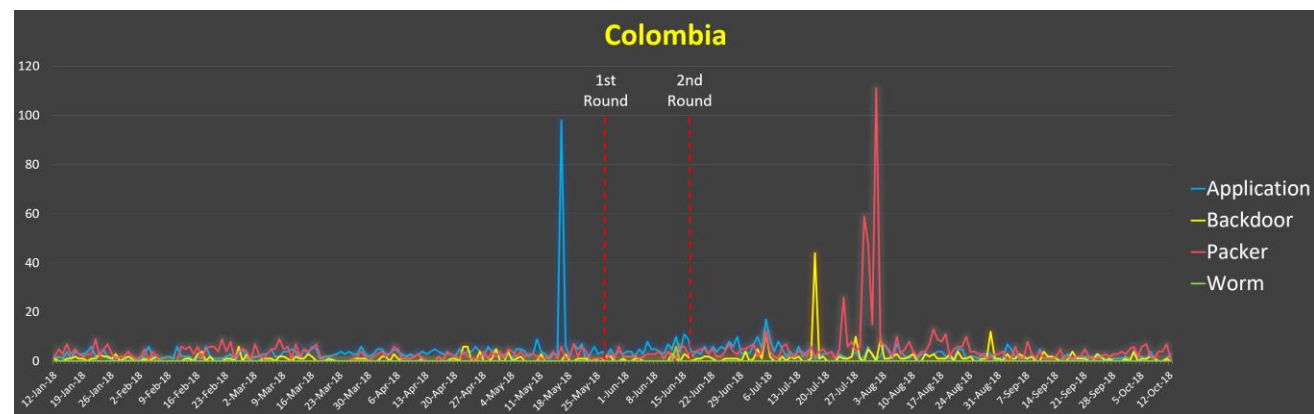
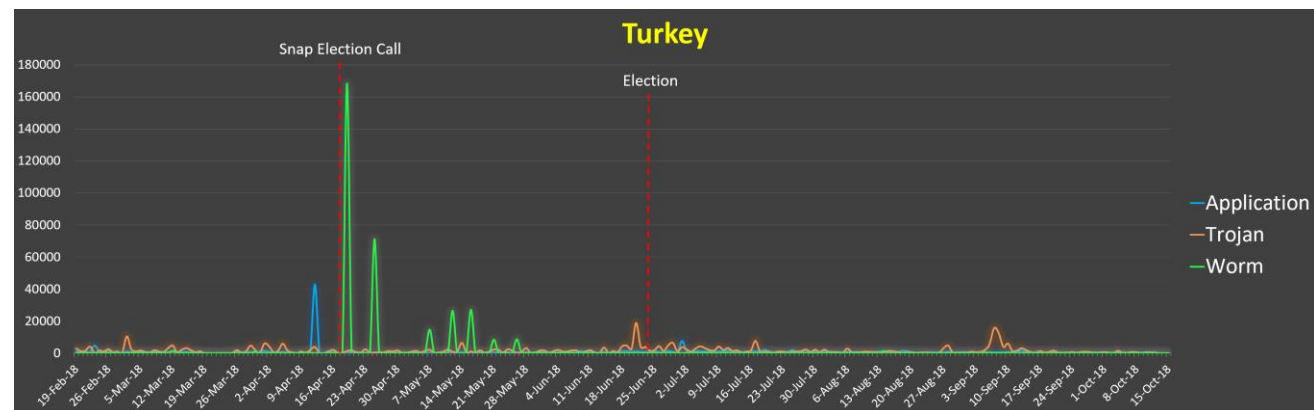
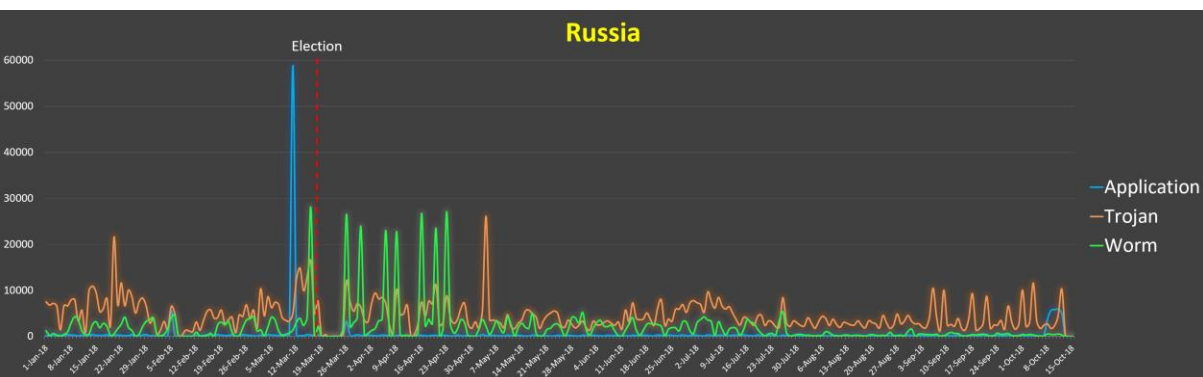
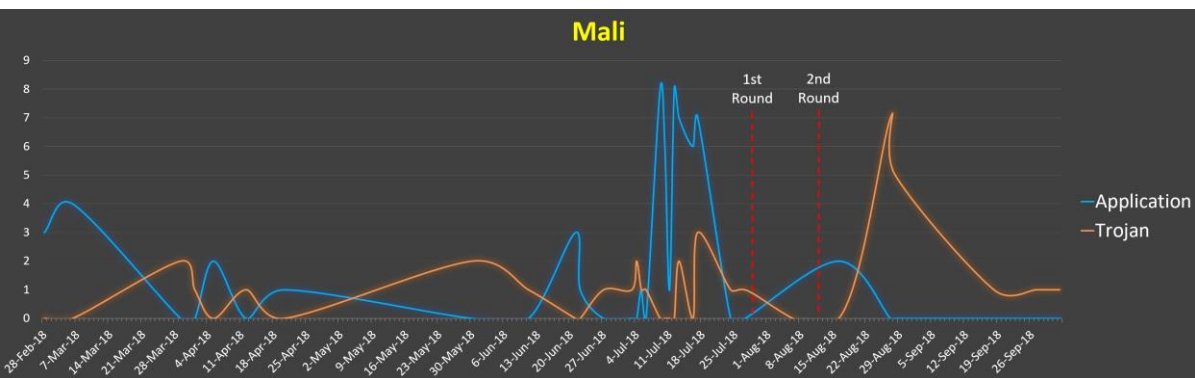
E = Election / R = Referendum / S = Snap election call / V = Vote recount



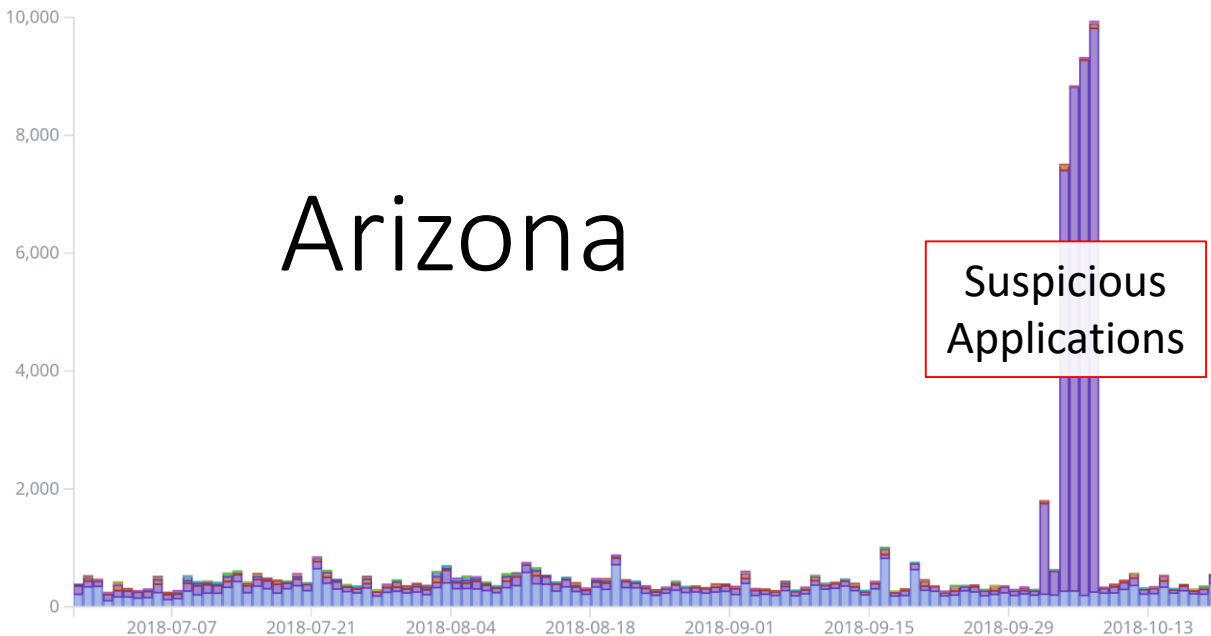
United States



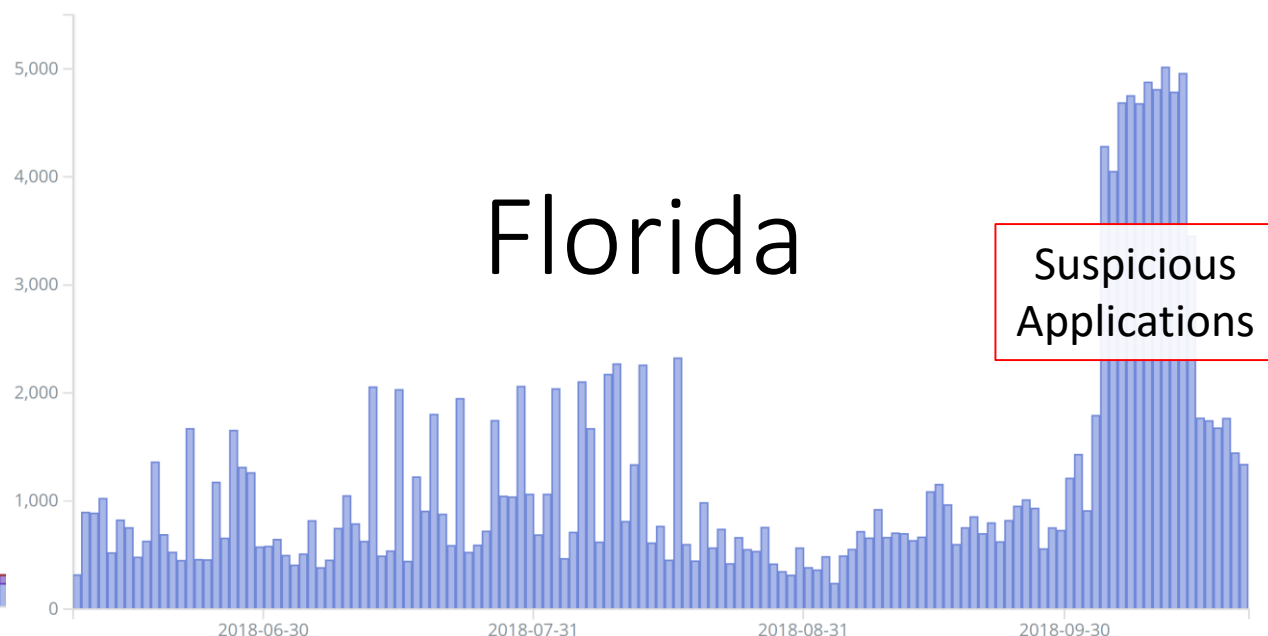
Cyber Kill Chain: National Scale



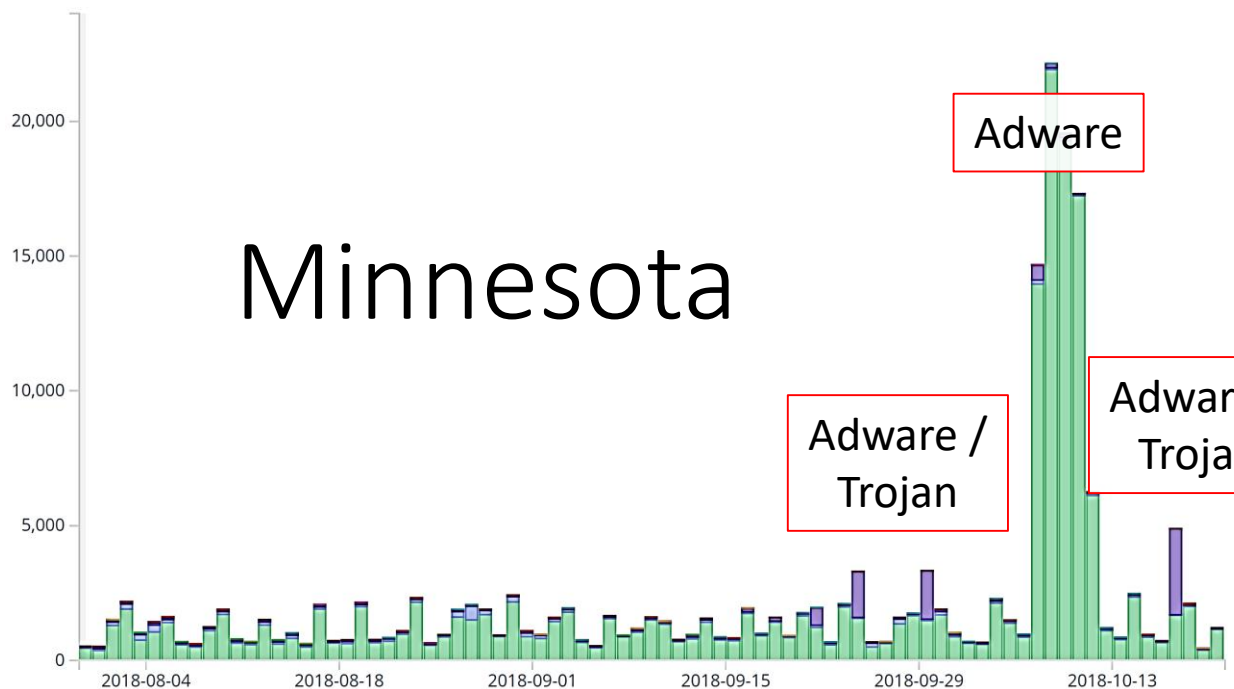
Arizona



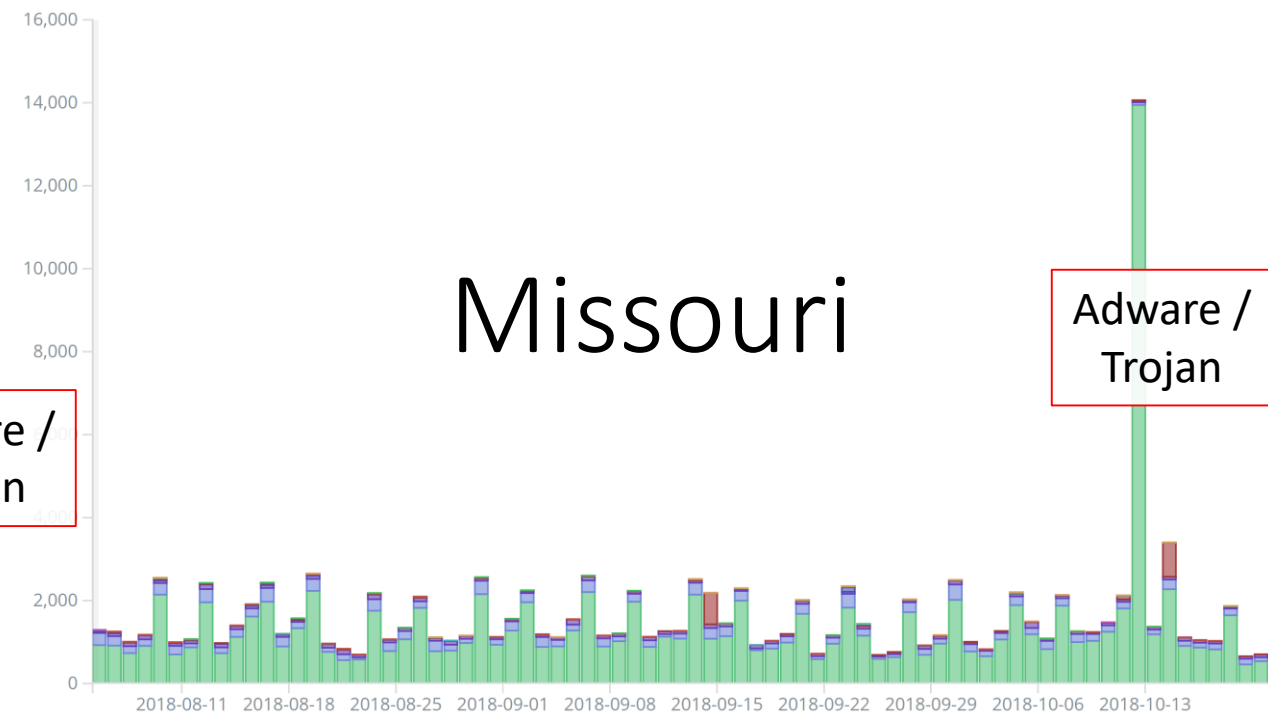
Florida

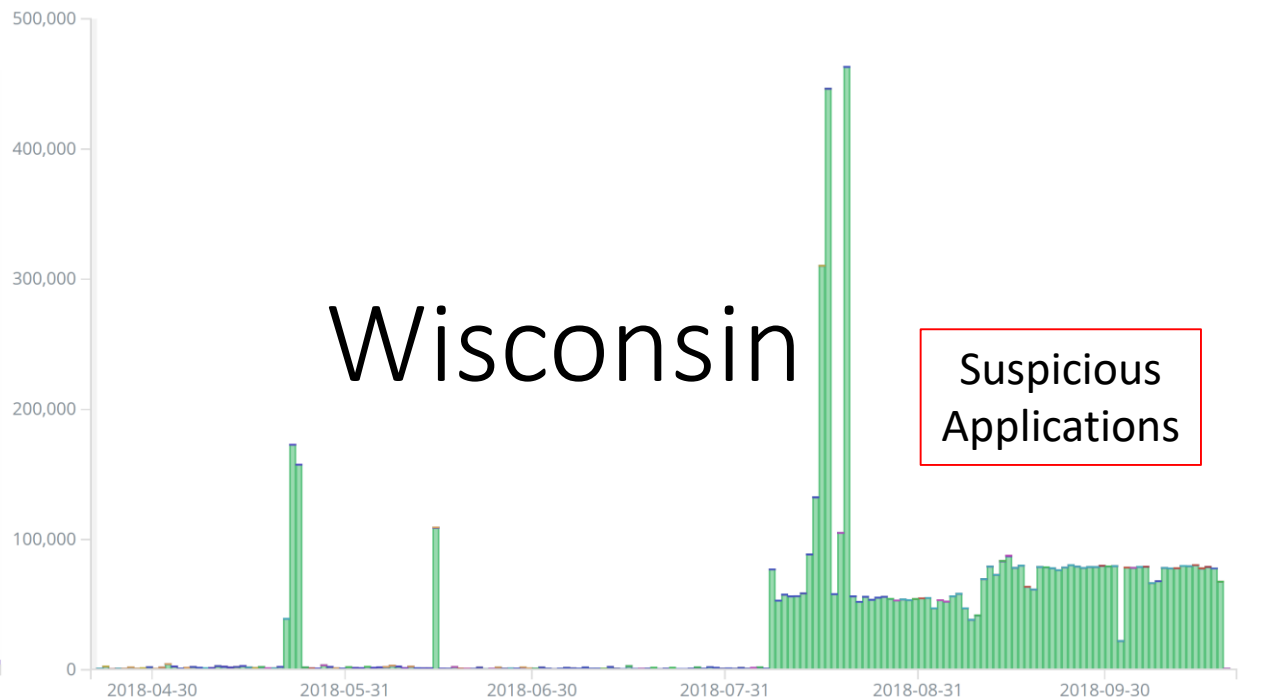
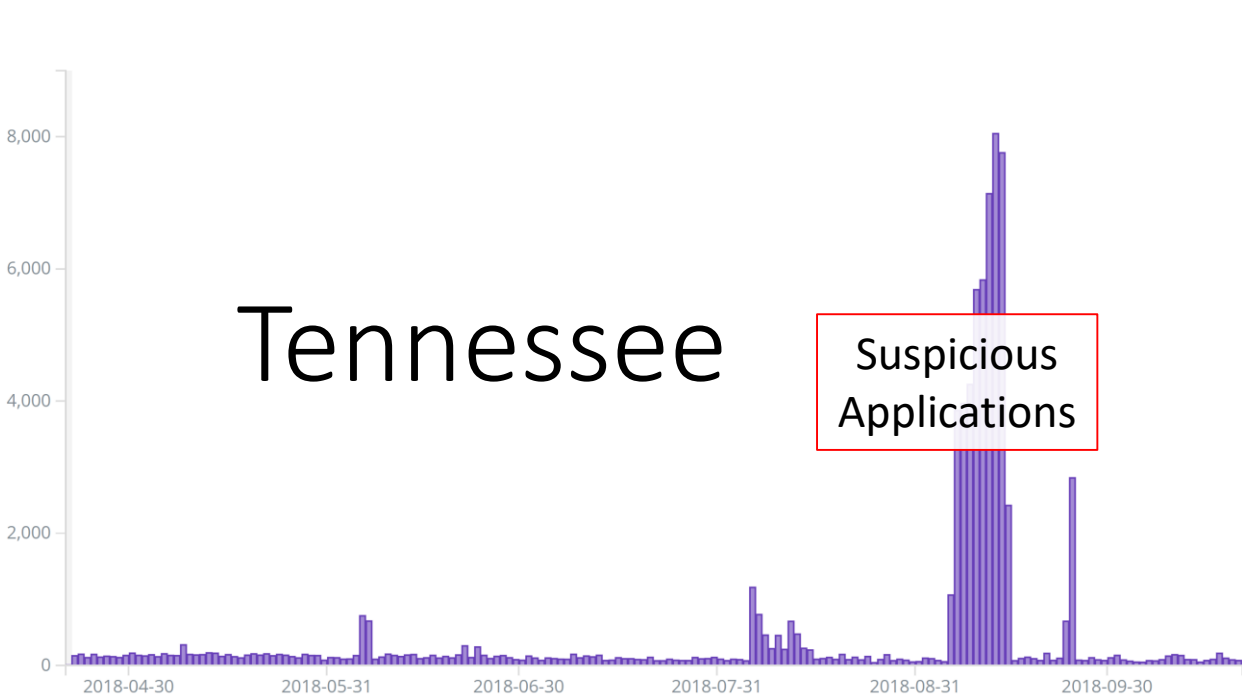
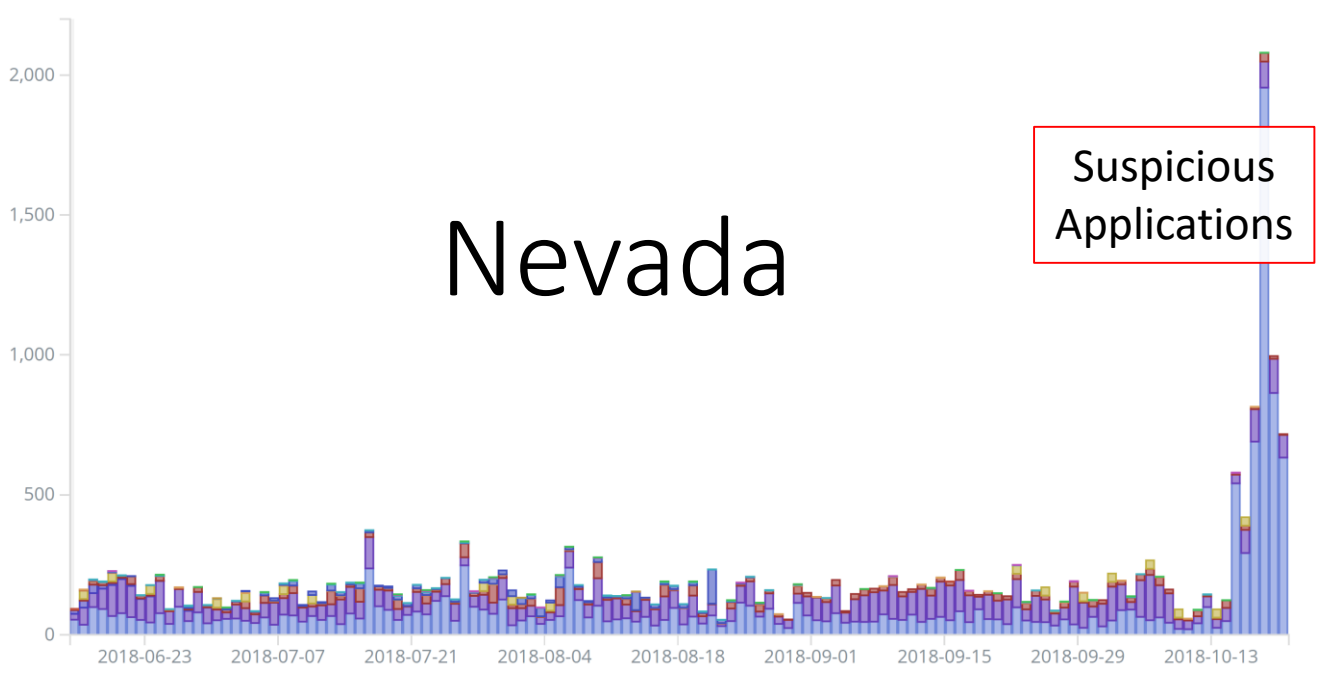
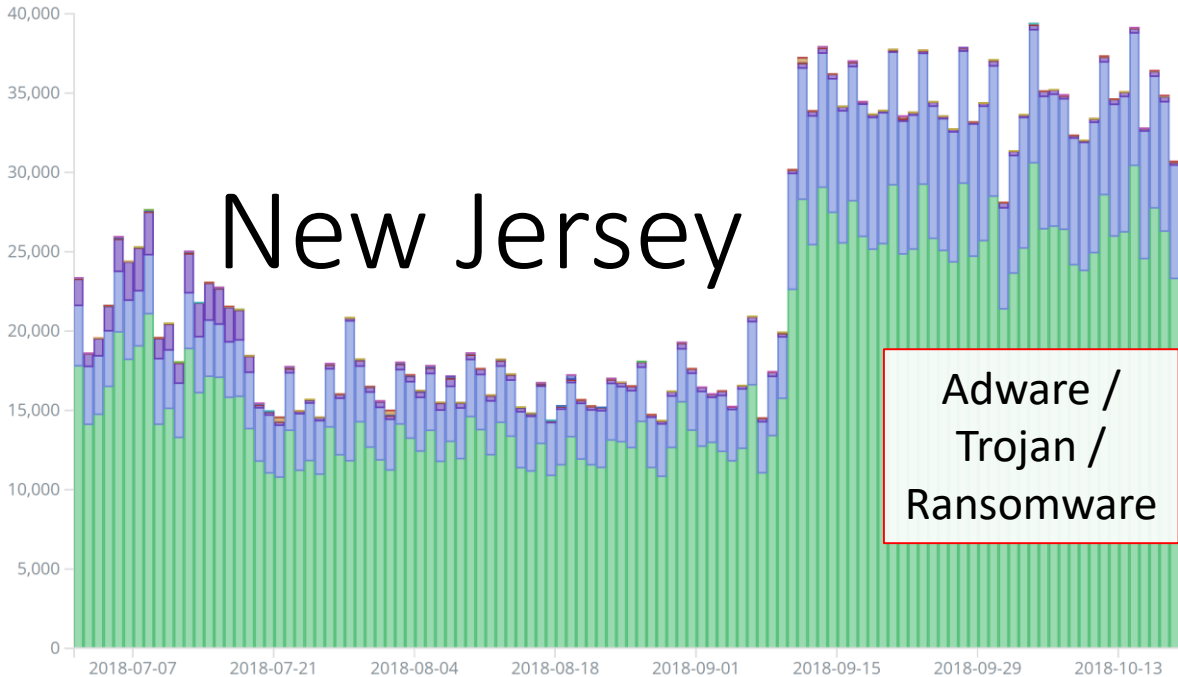


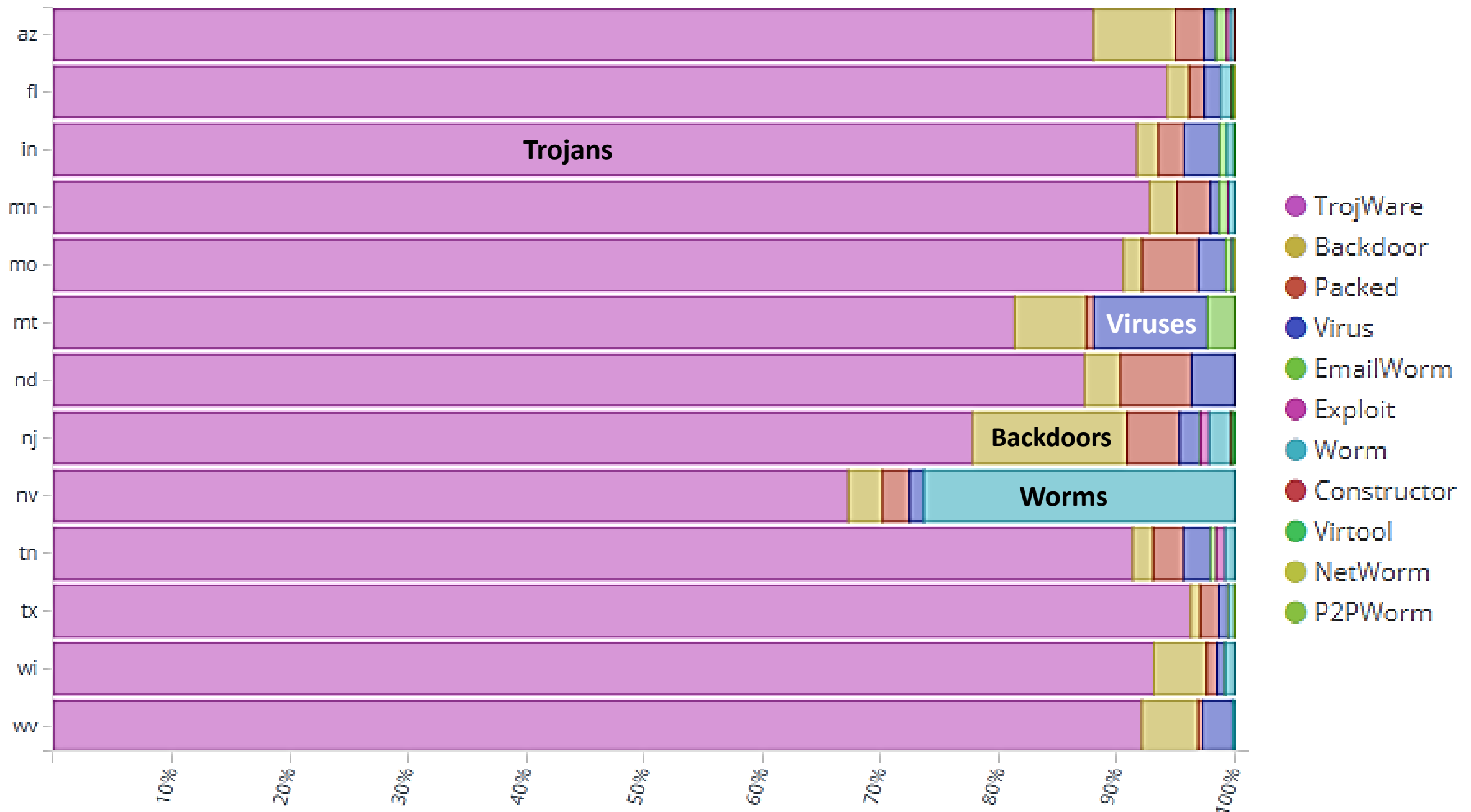
Minnesota



Missouri







David and Goliath

*Estonia &
Grand Strategy
in Cyberspace*

Kenneth Geers

