

# O cenário atual de ameaças na América Latina e quais serão os desafios futuros.

Franzvitor Fiorim, Diretor Técnico, Trend Micro Brasil





Ameaças  
digitais?  
Você se lembra?



Abfahrt	Über	Nach	Gleis
	Flöha - Pockau-Lengefeld	Olbernhau	8
22:10 RB81	Flöha - Freital	Hbf	11
22:30 RB30	- Führt heute Hohenstein	(S) Hbf	10
22:31 RB30	Flöha - Zsch	g-B. Süd	8
22:36 RB80			9
22:36 RB45	irt heute von	Hbf	5
22:44 RE6	Geithain - B		14
22:45 RB9	Einsiedel - Thalheim (Erzgeb)	Aue (Sachs)	11
	Freiberg (Sachs) - Tharandt	Dresden Hbf	

Wana Decrypt0r 2.0

**Ooops, your files have been encrypted!**

Was geschah mit meinem Computer?  
Ihre wichtigen Dateien sind verschlüsselt. Viele Ihrer Dokumente, Fotos, Videos, Datenbanken und andere Dateien sind nicht mehr zugänglich, weil sie verschlüsselt wurden. Vielleicht sind Sie damit beschäftigt, einen Weg zu finden, um Ihre Dateien wiederherzustellen, aber verschwinden Sie nicht Ihre Zeit. Niemand kann Ihre Dateien ohne unseren Entschlüsselungsdienst wiederherstellen.

Kann ich meine Dateien wiederherstellen?  
Sicher. Wir garantieren, dass Sie alle Ihre Dateien sicher und einfach wiederherstellen können. Aber du hast nicht genug Zeit. Sie können einige Ihrer Dateien kostenlos entschlüsseln. Versuchen Sie jetzt, indem Sie auf <Decrypt> klicken. Aber wenn du alle deine Dateien entschlüsseln willst, musst du bezahlen. Sie haben nur 3 Tage, um die Zahlung einzureichen. Danach wird der Preis verdoppelt. Auch wenn du nicht in 7 Tagen bezahlt hast, kannst du deine Dateien nicht für immer wiederherstellen. Wir haben freie Veranstaltungen für Benutzer, die so arm sind, dass sie nicht in 6 Monaten bezahlen können.

Wie bezahle ich?  
Die Zahlung wird nur in Bitcoin akzeptiert. Für weitere Informationen klicken Sie auf <About bitcoin>.

Send \$300 worth of bitcoin to this address:  
12t9YDPgwueZ9NyMgw519p7AA81ajr6SMw

Check Payment Decrypt

Payment will be raised on  
5/15/2017 22:50:58  
Time Left  
02:23:18:55

Your files will be lost on  
5/19/2017 22:50:58  
Time Left  
06:23:18:55

About bitcoin  
How to buy bitcoins?  
Contact Us







Translate

From:

Translate

From:

Korean

To:

English

Original

Last night I contacted the hacker last night.

Hello Netanvana is CEO.

Even if it is restored, it can not cope with customer's law.

You will see my frustration whatever you do.

Nevertheless

I ask you.

My fr

**FOX NEWS** Tech

HACKERS

# Ransomware attack costs South Korean company \$1M, largest payment ever

Published June 21, 2017 • Fox News



to buy my customers.

Everything I have is 400 billion won (123bit).

If you are really a hacker, I think you should do this.

Even if I lose all my life

Please ask.

Help me to buy my customers.

Everything I have is 400 billion won (123bit).

온세테마샵  
도메인 연장  
도메인연장  
신청하기  
성공적인 온라인  
사업을 위한  
온라인마케팅!



**DEVELOPING THIS MORNING**

## GIANT DATA BREACH COULD HIT 143 MILLION PEOPLE

Credit reporting firm Equifax says hackers stole personal info

**LIVE**

**CNN**

12:24 AM PT



**HURRICANE IRMA**  
**CATEGORY 5**

**WIND SPEED**  
**160 MPH**

**STORM MOVING**  
**WNW 16 MPH**

**AT LEAST TWO DEAD AFTER POWERFUL EARTHQUAKE HIT** **EARLY START**

# Equifax Inc.

NYSE: EFX - 11 de set 19:59 GMT-4

113,12 USD ↓10,11 (8,20%)

Após o horário comercial: 112,00 ↓0,99%



Abertura	121,53
Alta	122,00
Baixa	111,17

Cap. merc.	17,51 bi
Pr./lucro	23,93
Rend. div.	1,38%



September 7, 2017

Baird Equity Research  
Information & Education Solutions

BAIRD

## Equifax Inc. (EFX)

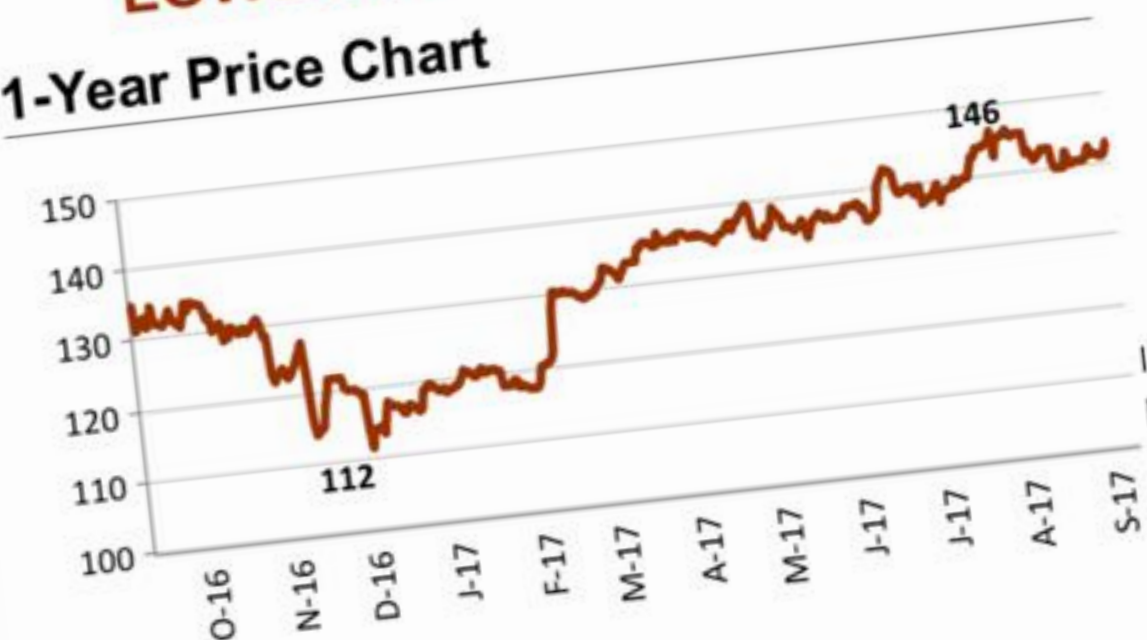
Announces Significant Data Breach; -13.4% in After-Hours

Significant data breach obviously a material negative, but -13.4% after-hours seems like over-reaction based on our understanding of events. Our understanding is data retained by EFX primarily generated through consumer interactions was breached via the Apache Struts flaw (i.e., core databases not believed to have been breached). We expect near-term operating headwinds plus material event-related expenses. However, we believe EFX's access to key data sources are unlikely to be affected, and client relationships and EFX's brand are unlikely to be meaningfully impaired intermediate to long term.

- Data breach impacts ~143mn U.S. consumers, an event garnering widespread press/media attention. Information accessed includes names, social security numbers, birth dates, addresses, and in some instances driver's license numbers. A smaller number of credit card numbers (209k), dispute documents (182k), and information on UK and Canadian residents also accessed.

### LOWERING PRICE TARGET

#### 1-Year Price Chart



#### Stock Data

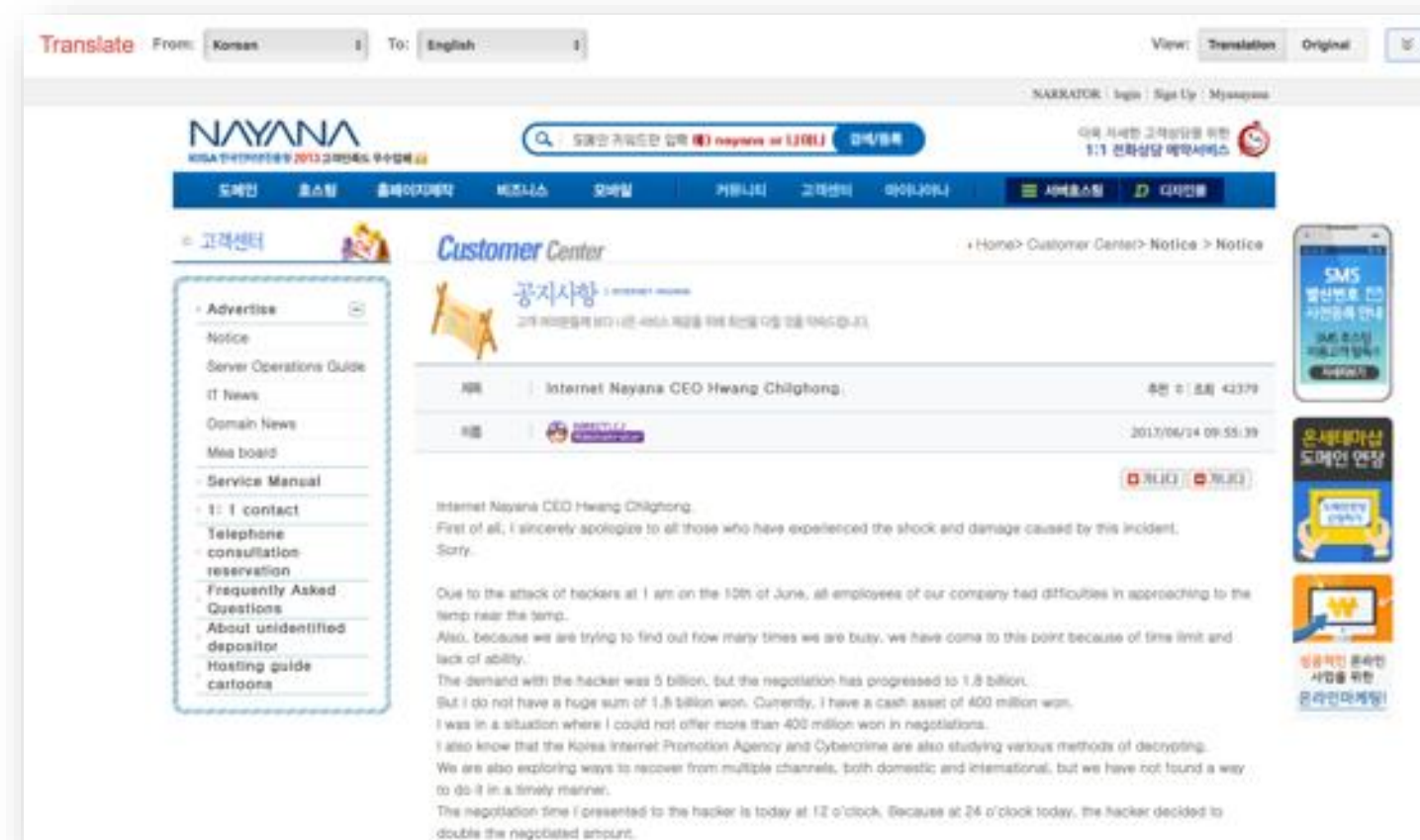
Rating:

Suitability:

Price Target/Previous:

Outperform  
Average Risk  
▼\$141/\$157





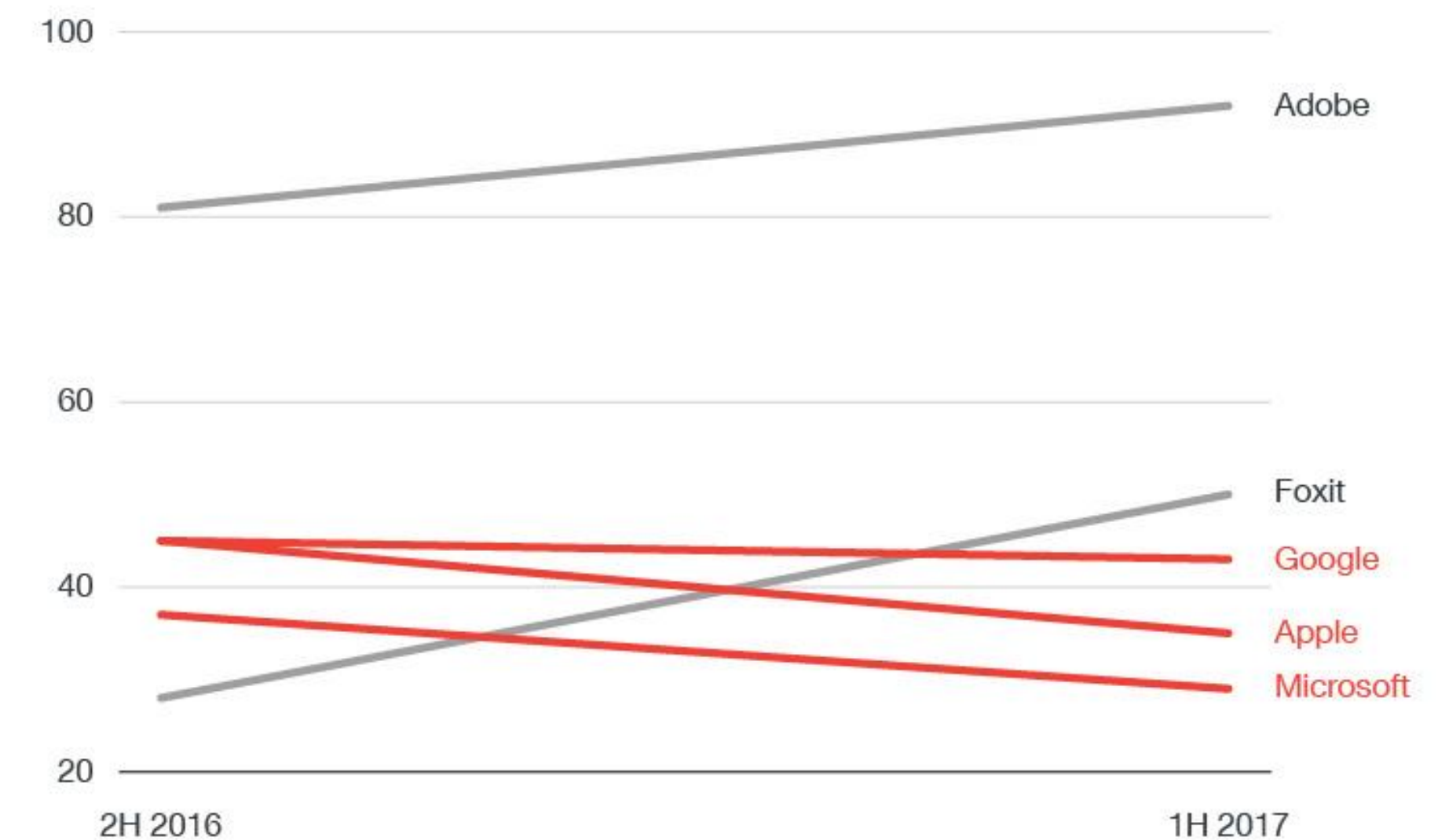


# Novos ataques, velhas vulnerabilidades



# Menos vulnerabilidades dos principais fabricantes

2H 2016		1H 2017	
Adobe	81	Adobe	92
Google	45	Google	43
Apple	45	Apple	35
Microsoft	37	Microsoft	29
Foxit	28	Foxit	50





# A história por trás da maior vulnerabilidade de 2017

MARÇO	Microsoft lança o patch para CVE-2017-0144
ABRIL	EternalBlue lançado pelo Shadow Brokers
MAIO	Ataque do WannaCry usando EternalBlue
JUNHO	Ataque do Petya usando EternalBlue



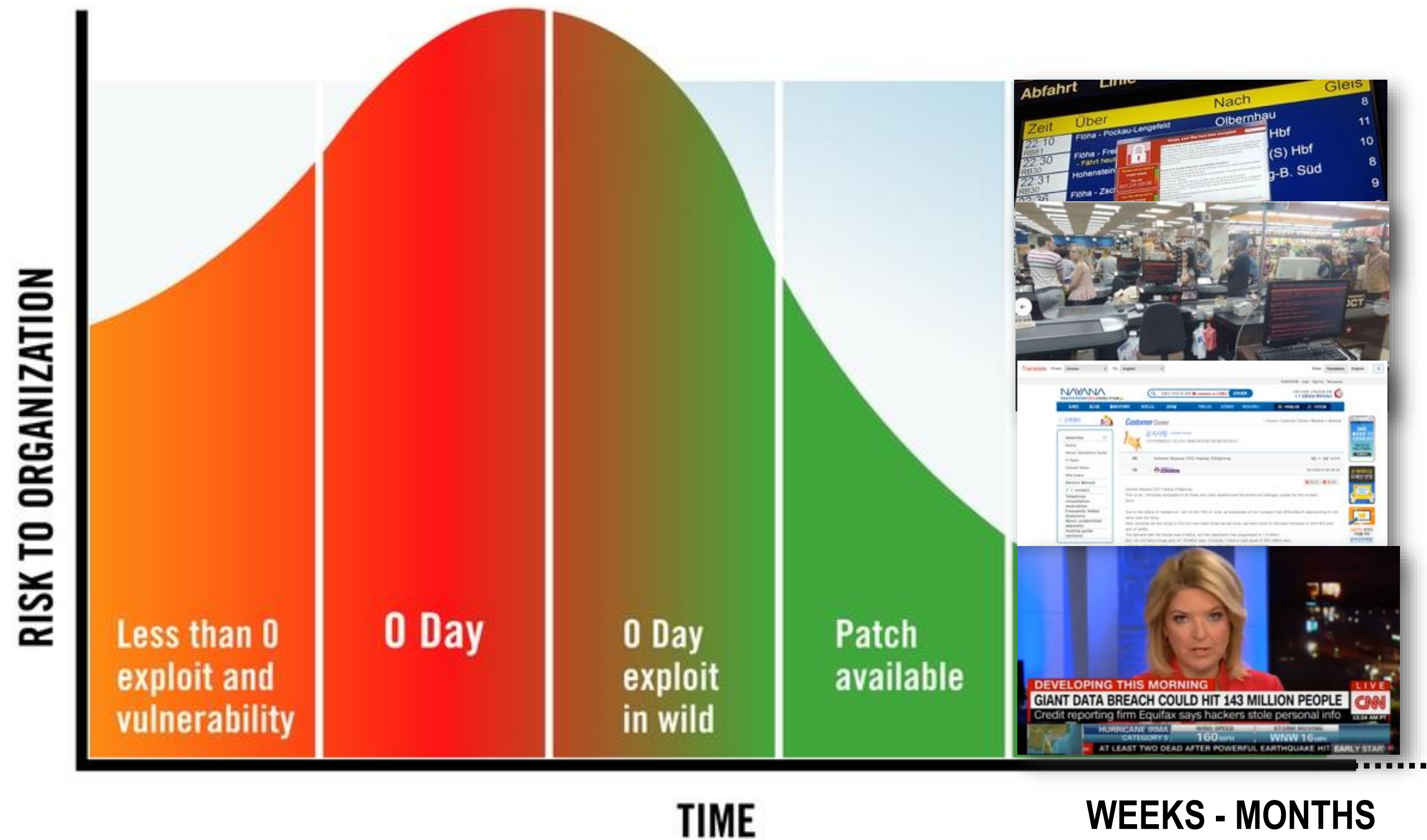
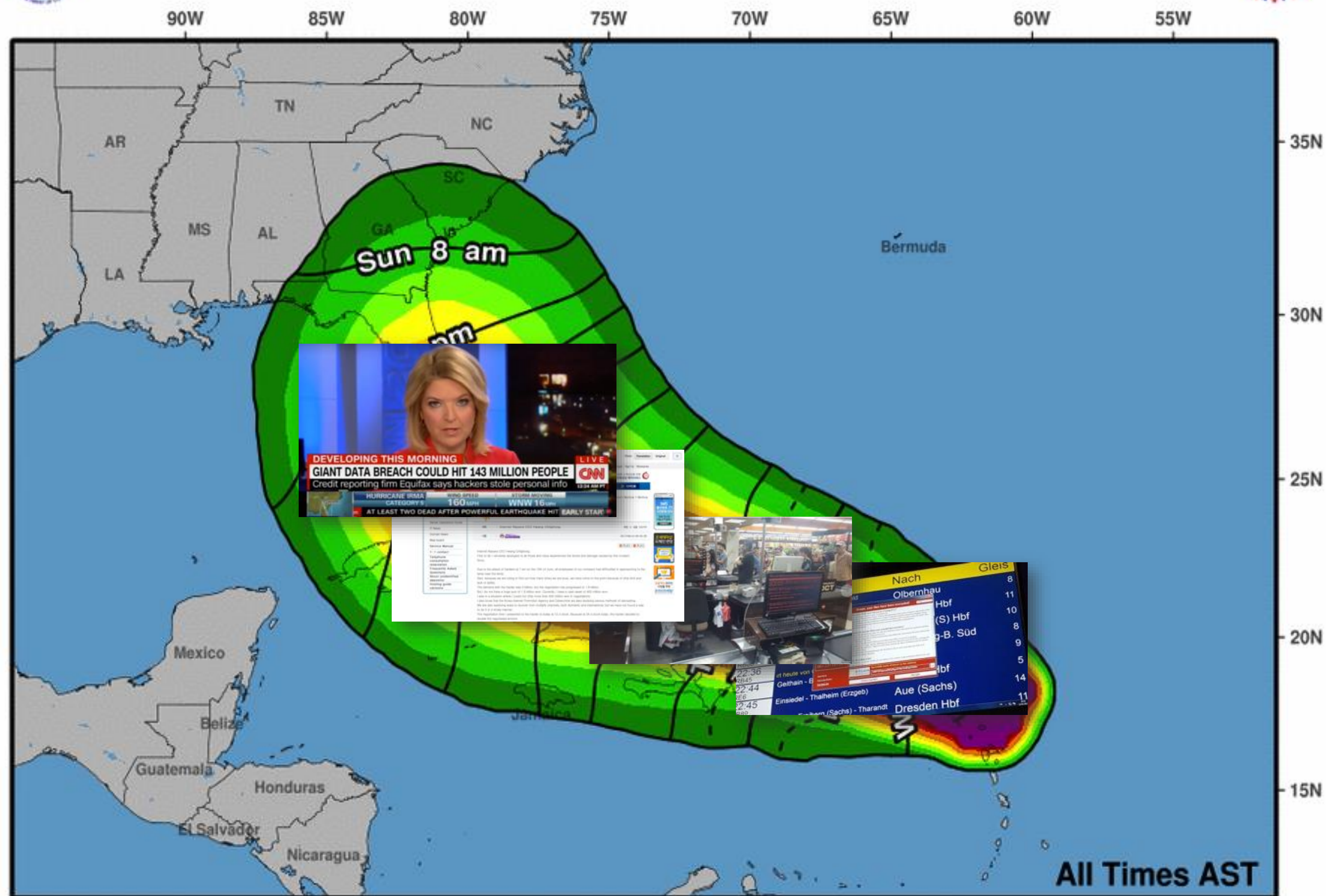


Chart source: [http://www.ashimmy.com/less\\_than\\_zero/](http://www.ashimmy.com/less_than_zero/)





# Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



Hurricane Irma  
Wed. Sep. 6, 2017 5 am AST  
Advisory 29

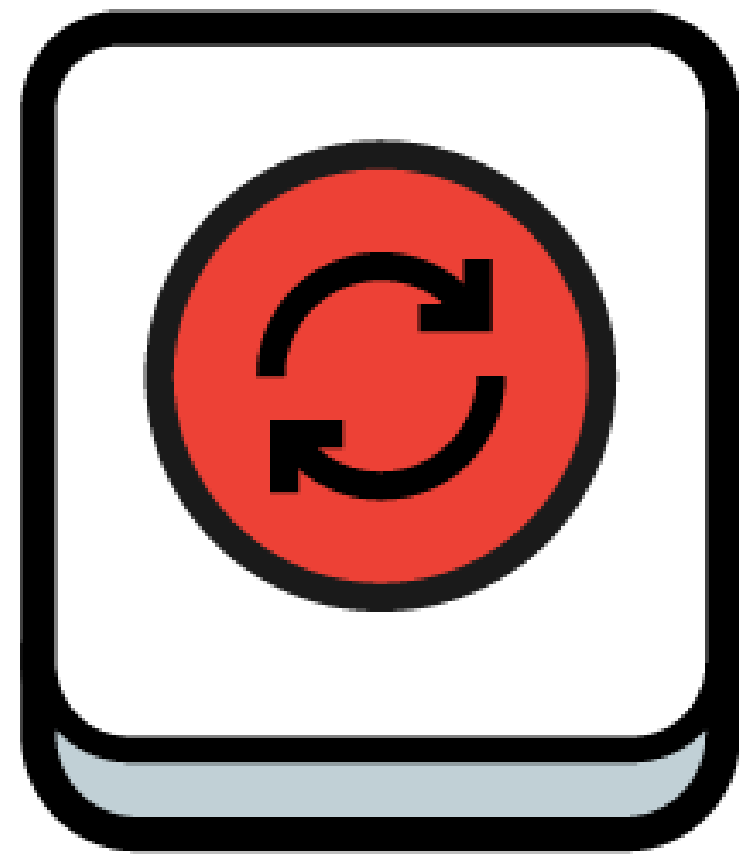
Storm Location &  
Wind Speed (knots)  
○ <34 ○ 34-63 ● ≥64

Five-day chance of receiving sustained 34+ knot (39+ mph) winds





# Proteção contra vulnerabilidades



Mantenha software e  
apps atualizados



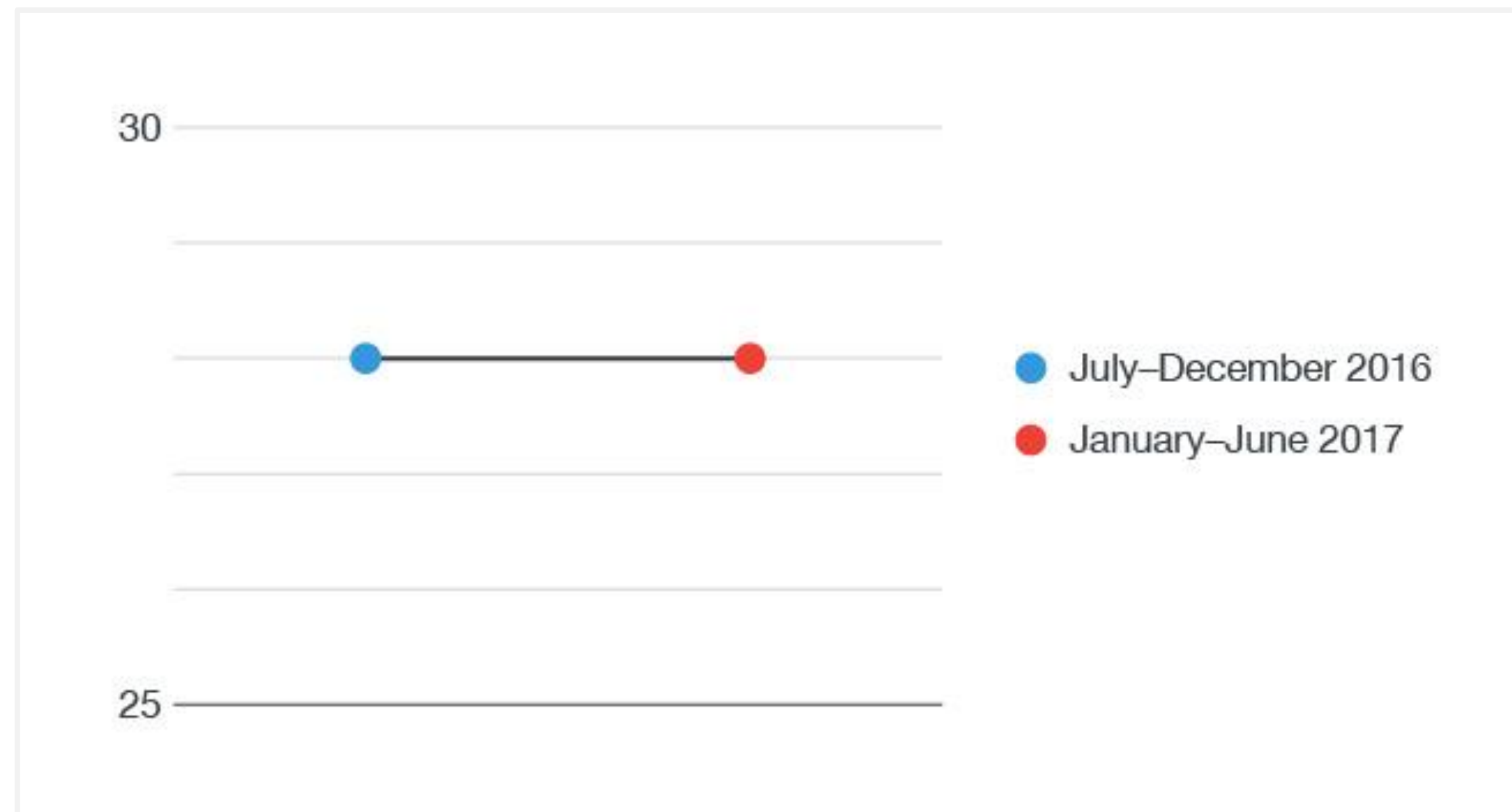
Medidas proativas  
como blindagem de  
vulnerabilidades



Crescimento de ransomware  
para mas cibercriminosos  
diversificam



# Número médio de novas famílias de ransomware em 1H de 2017





# Maiores ataques de ransomware em 2017



## WannaCry

- Infects machines with an open port 445 and spreads through local networks and the internet



## Petya

- Spreads to Windows XP machines
- Encrypts Master File Table and deletes key



# Cybercriminals Diversifying Into New Attack Methods



## **Cerber**

Avoids detection from  
machine learning  
solutions



## **SLocker**

Encrypts files rather  
than lockscreen



# Ransomware Overview



**67%** tied to email with  
malicious attachment/URLs



**29%** tied to malicious  
websites



**4%** are actual  
ransomware files



# Cenário América Latina...



# Latin America

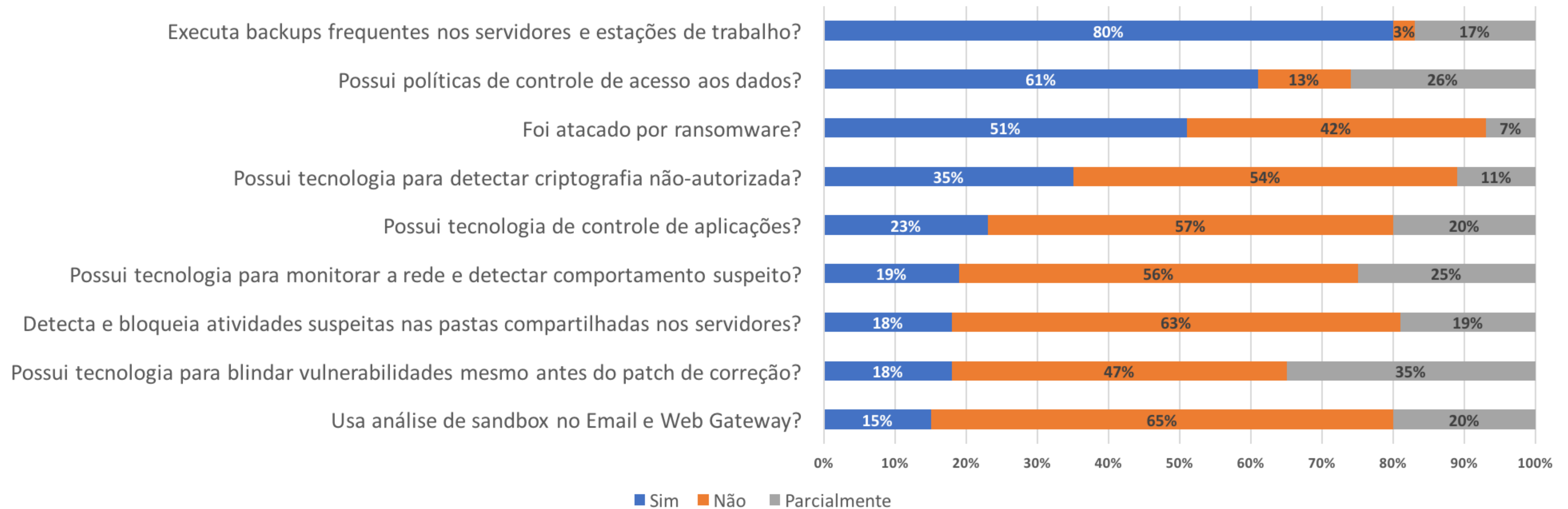
Threats Detected	Presence
Known Malware?	97%
Conficker/Downad?	50%
Unknown Malware/Zero-Day?	69%
Android Malware?	34%
Malware for MAC OS?	8%
Malicious Documents?	85%
C&C Communications (Botnet)?	90%
Data leak activity?	25%
Unauthorized applications?	80%
Targeted Malware/APT?	23%
Cloud Storage services?	51%
Network Attacks or Exploits?	83%

**Source:** 331 PoVs in Latin America, from 2013 to September of 2017.



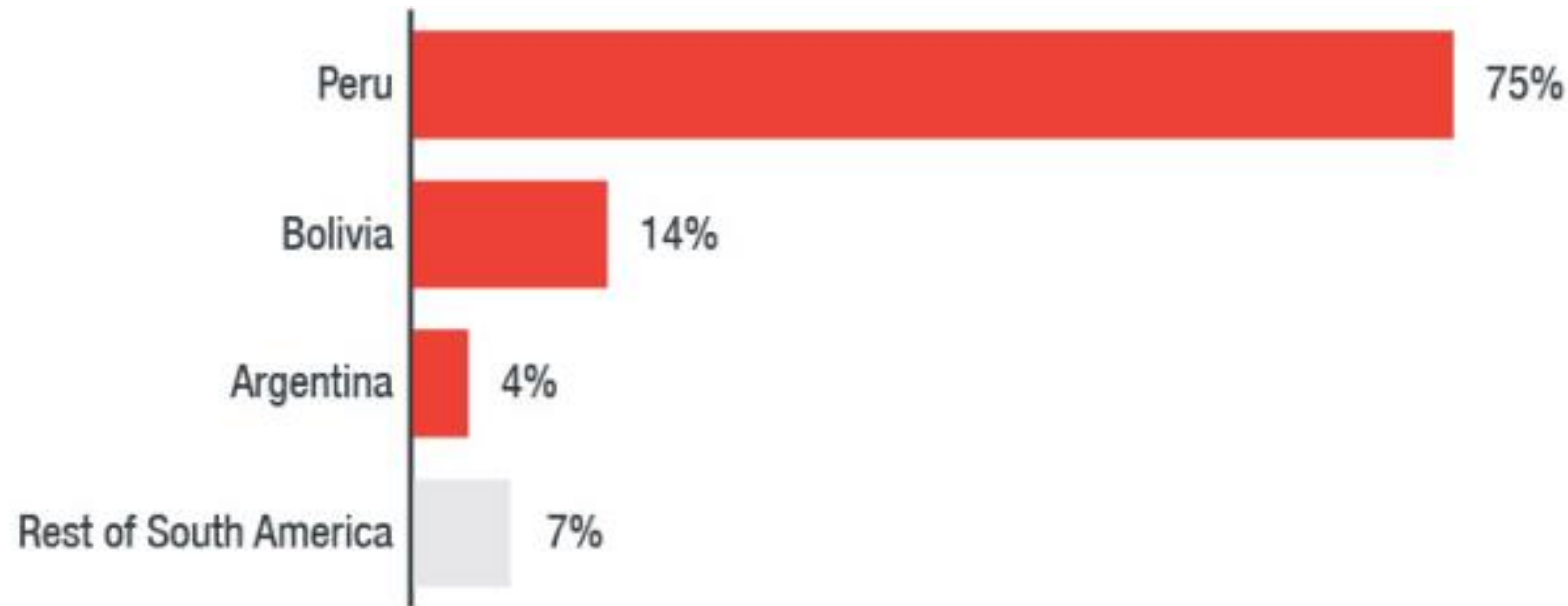
# Ransomware - Latin America

Assessment Ransomware - 2016





# New RETADUP Variants Hit South America, Turn To Cryptocurrency Mining

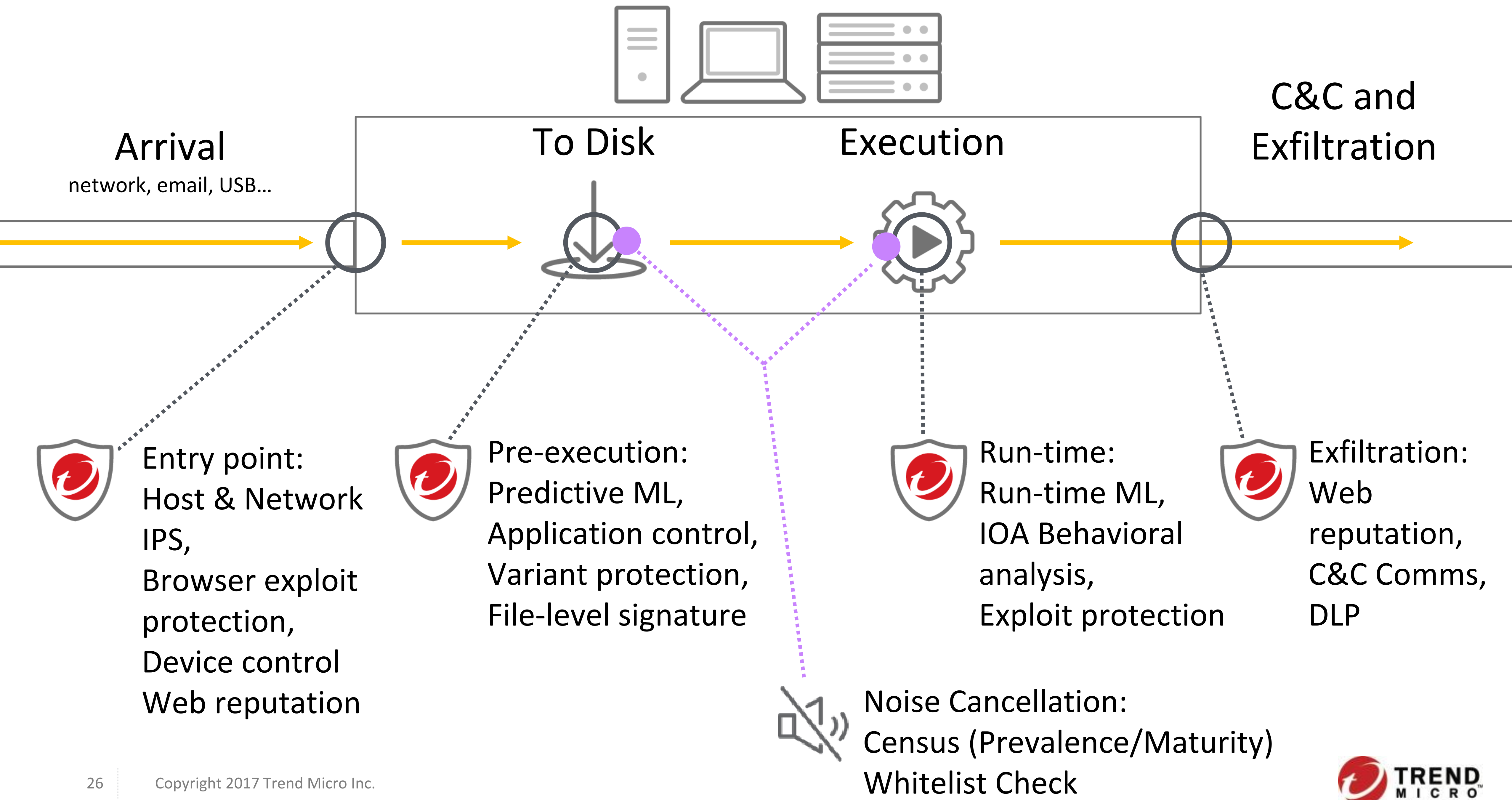


Source: *Distribution of victims in South America.*



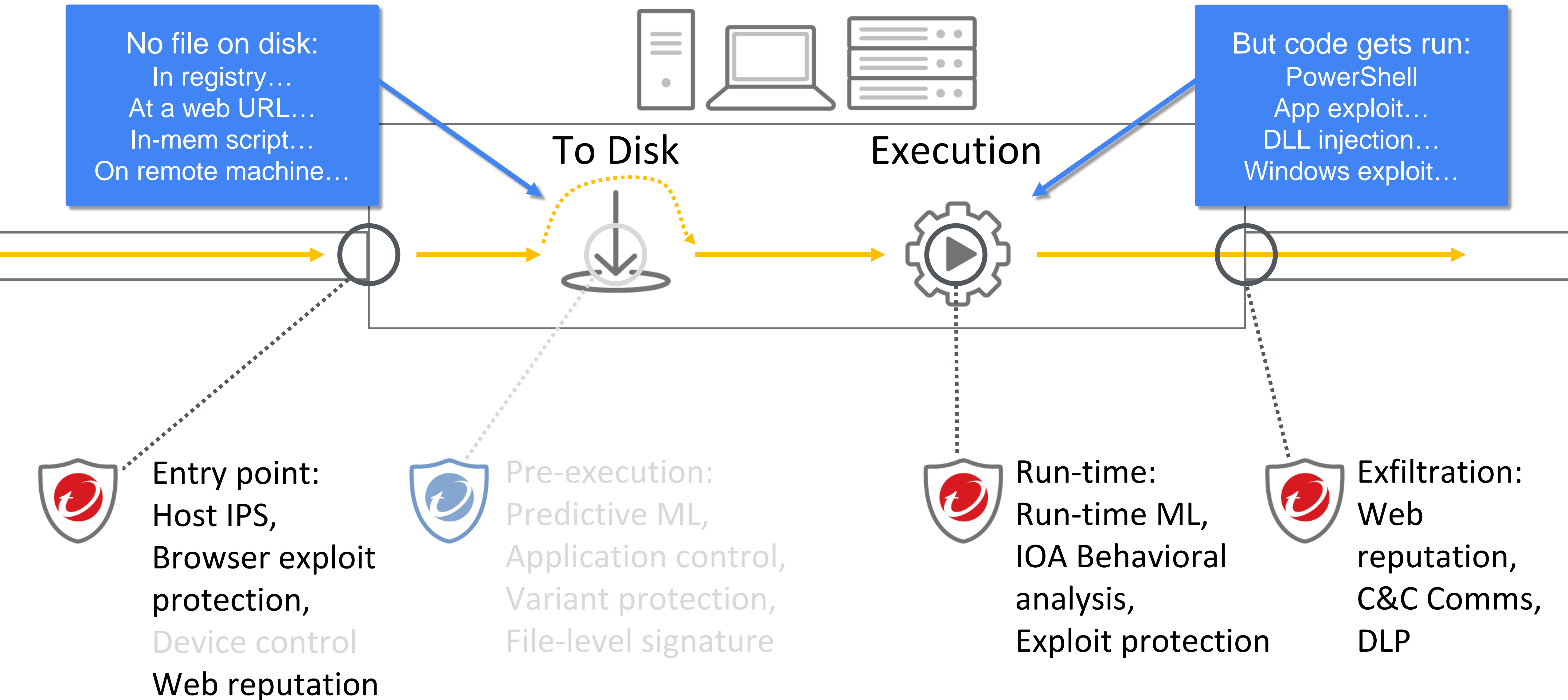
E os desafios de amanhã?







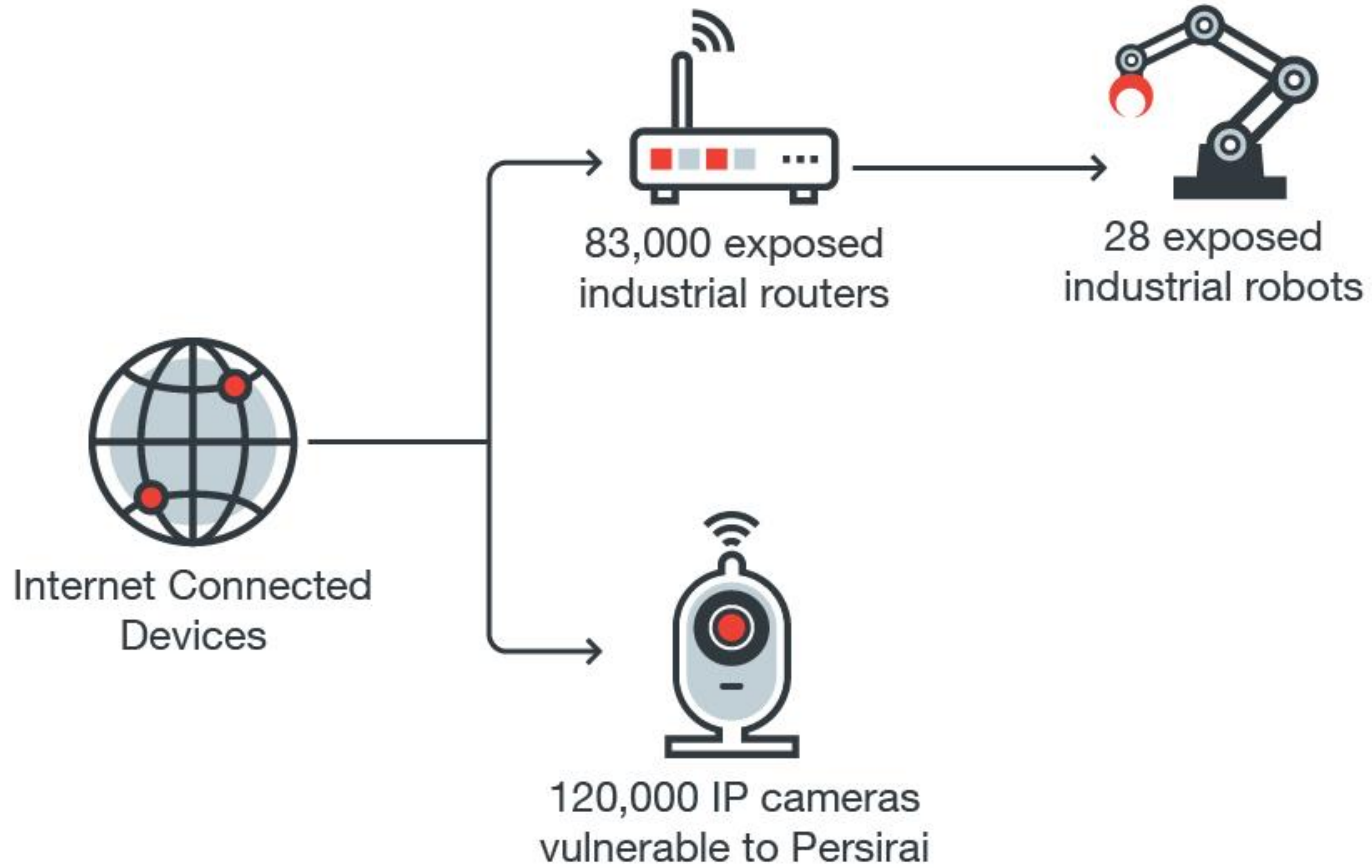
# Defending Against Fileless Malware





# Connected Devices Put Smart Life at Risk





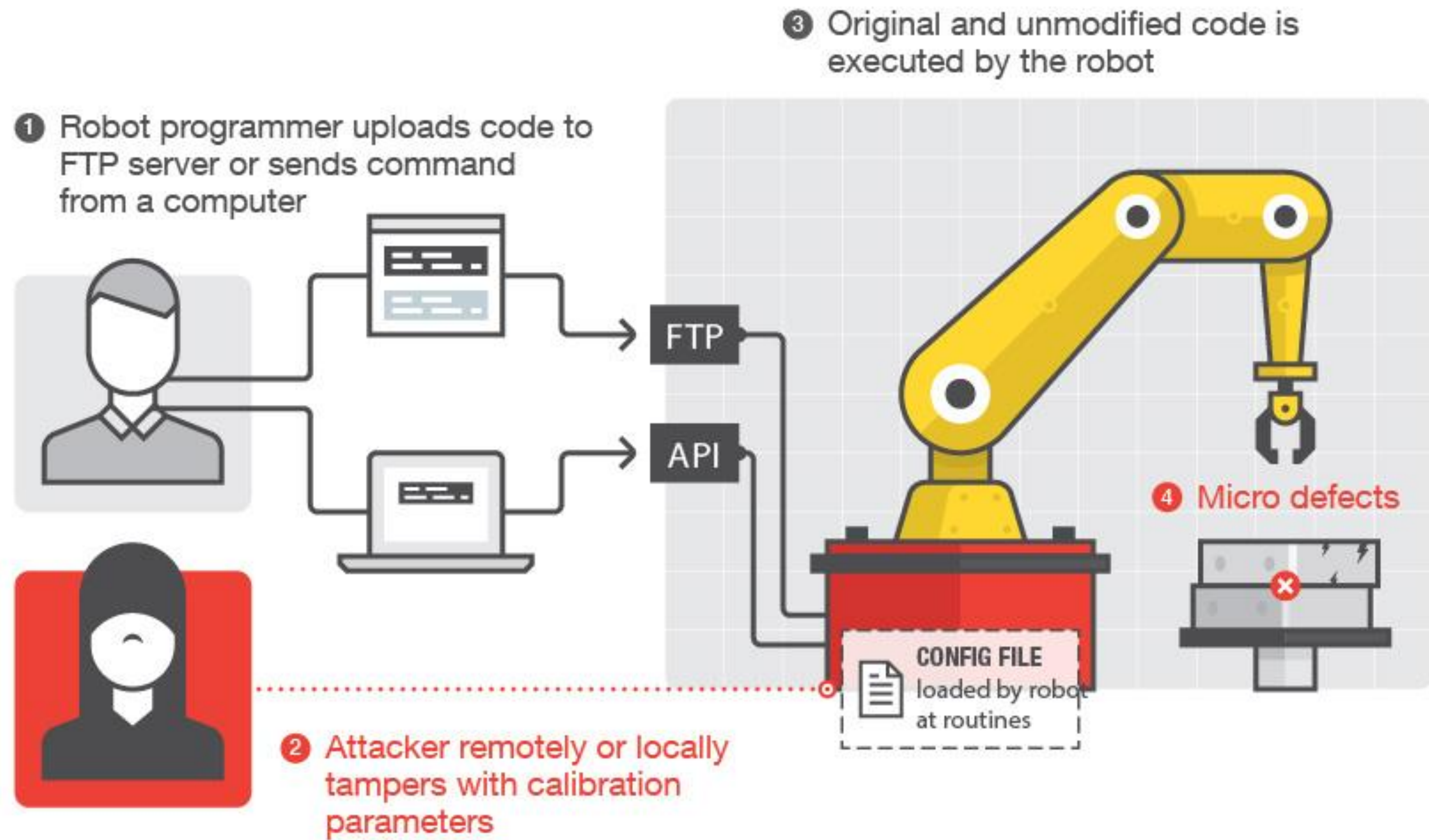


A close-up photograph of an industrial robotic arm, specifically a welding robot, in the middle of a task. The robot's gripper is holding a welding torch, which is creating a bright, intense light at the point of contact with a metal workpiece. A dense spray of bright orange and yellow sparks is being ejected from the welding point, creating a dramatic visual effect. The background is slightly blurred, showing the industrial setting with various pipes and structural elements. The overall lighting is somewhat dim, with the primary light source being the welding process itself.

Robots are used to perform  
complex and critical tasks in all  
the major industry sectors











# ICS-CERT

INDUSTRIAL CONTROL SYSTEMS CYBER EMERGENCY RESPONSE TEAM

[HOME](#)[ABOUT](#)[ICSJWG](#)[INFORMATION PRODUCTS](#)[TRAINING](#)[FAQ](#)

## Control Systems

[Home](#)[Calendar](#)[ICSJWG](#)[Information Products](#)[Training](#)[Recommended Practices](#)[Assessments](#)[Standards & References](#)[Related Sites](#)[FAQ](#)

## Advisory (ICSMA-17-241-01)

[More Advisories](#)

### Abbott Laboratories' Accent/Anthem, Accent MRI, Assurity/Allure, and Assurity MRI Pacemaker Vulnerabilities

Original release date: August 29, 2017

[Print](#)[Tweet](#)[Send](#)[Share](#)

#### Legal Notice

All information products included in <http://ics-cert.us-cert.gov> are provided "as is" for informational purposes only. The Department of Homeland Security (DHS) does not provide any warranties of any kind regarding any information contained within. DHS does not endorse any commercial product or service, referenced in this product or otherwise. Further dissemination of this product is governed by the Traffic Light Protocol (TLP) marking in the header. For more information about TLP, see <http://www.us-cert.gov/tlp/>.

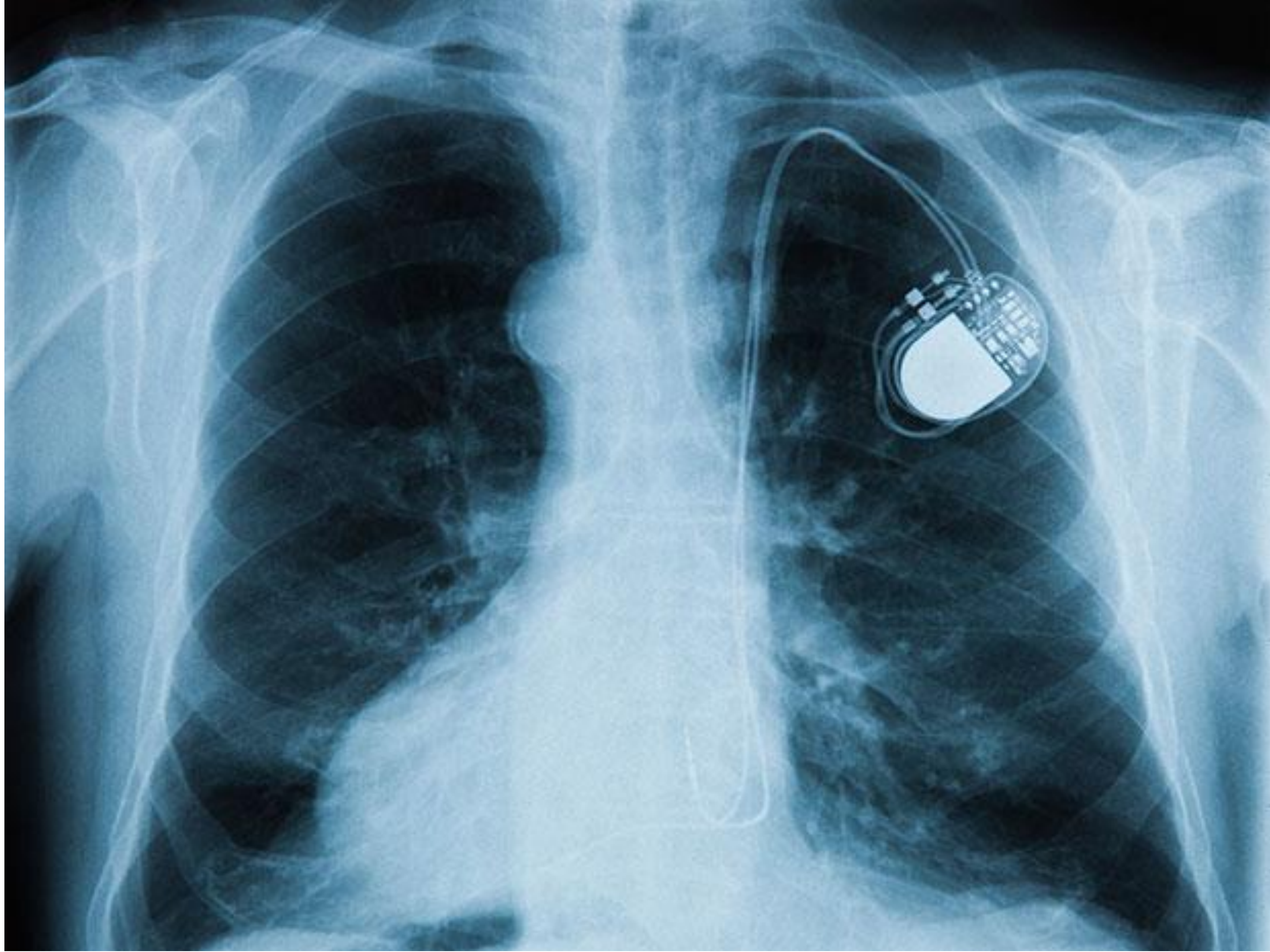
#### OVERVIEW

MedSec Holdings Ltd has identified vulnerabilities in Abbott Laboratories' (formerly St. Jude Medical) pacemakers. Abbott has produced a firmware patch to help mitigate the identified vulnerabilities in their pacemakers that utilize radio frequency (RF) communications. A third-party security research firm has verified that the new firmware version mitigates the identified vulnerabilities.



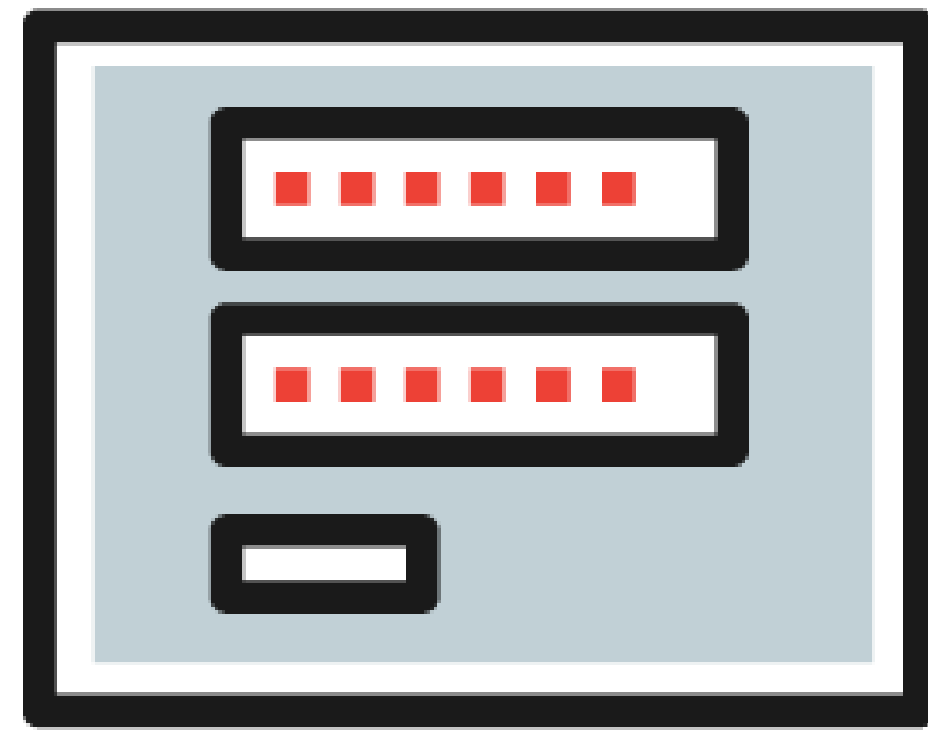








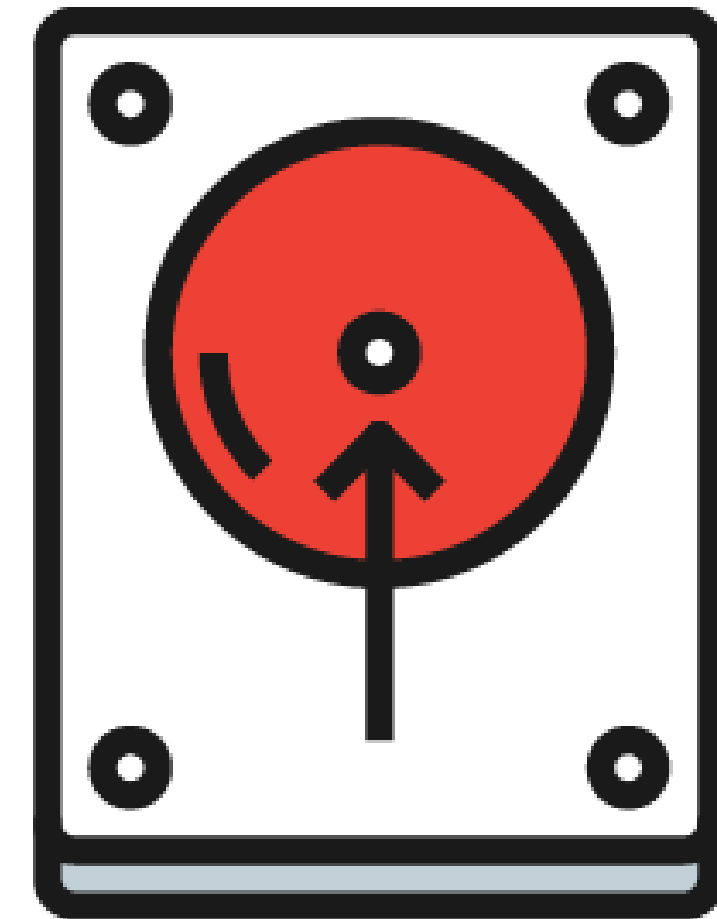
# Protection Against IoT Threats



**For users:** Change the default passwords of IoT devices



**For the manufacturers:** Fix vulnerabilities at SDK level



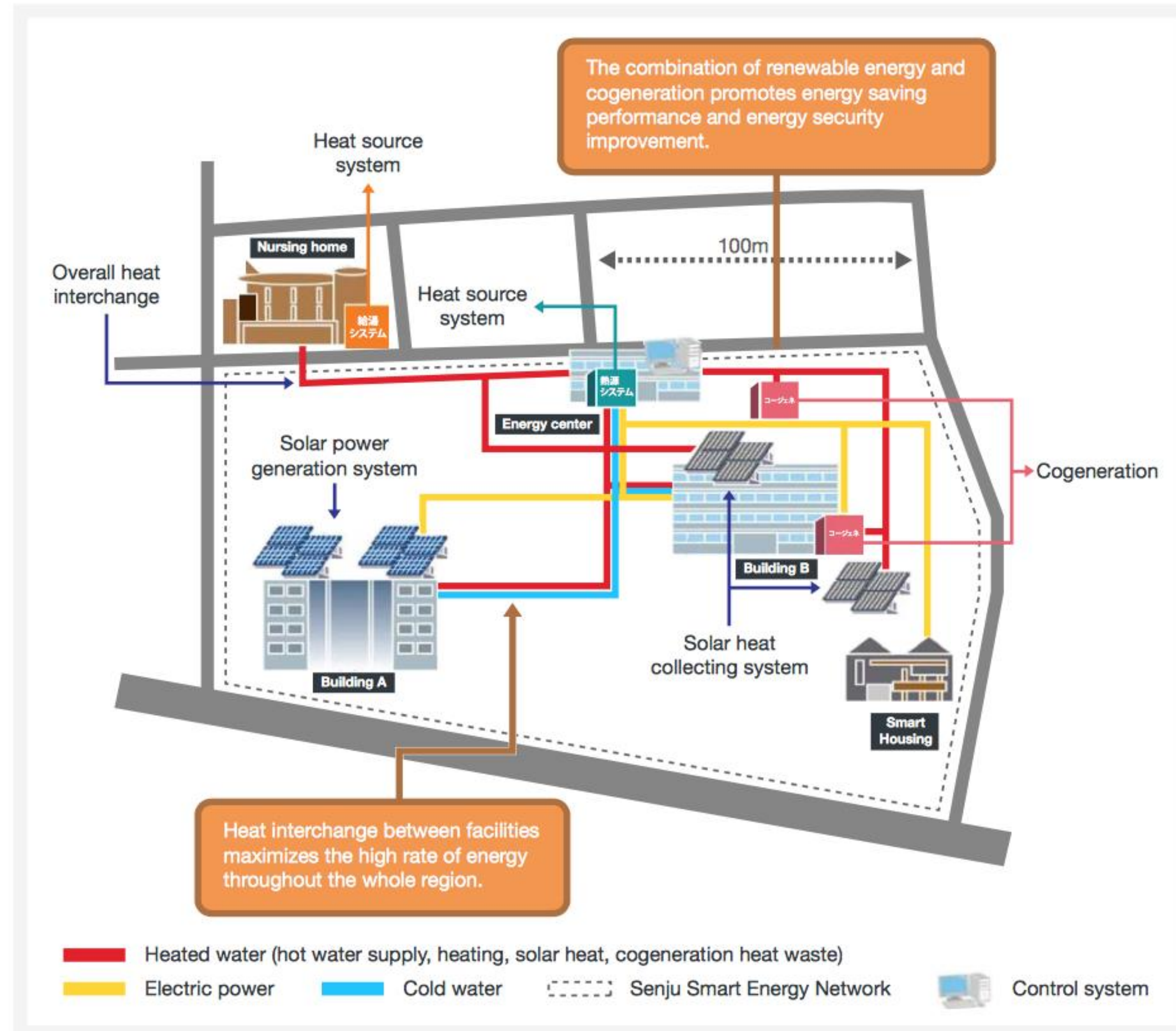
**For enterprises:** Create backup/restore policies in case of DDoS attacks



# Smart Cities and cybersecurity



# Smart energy





# Smart transportation





# Smart environment





# Smart connectivity





# Smart governance





# BEC Losses Reach \$5 Billion Mark







# FBI Statistics

	2H 2016	1H 2017
Running total	\$ 3B	\$5.3B



# BEC Overview



**Most targeted  
countries:**

U.S.  
Australia  
U.K.



**Most  
spoofed/targeted  
position:**

CEO/CFO



**BEC attempts  
globally in 1H  
2017**

3,175



# BEC Overview

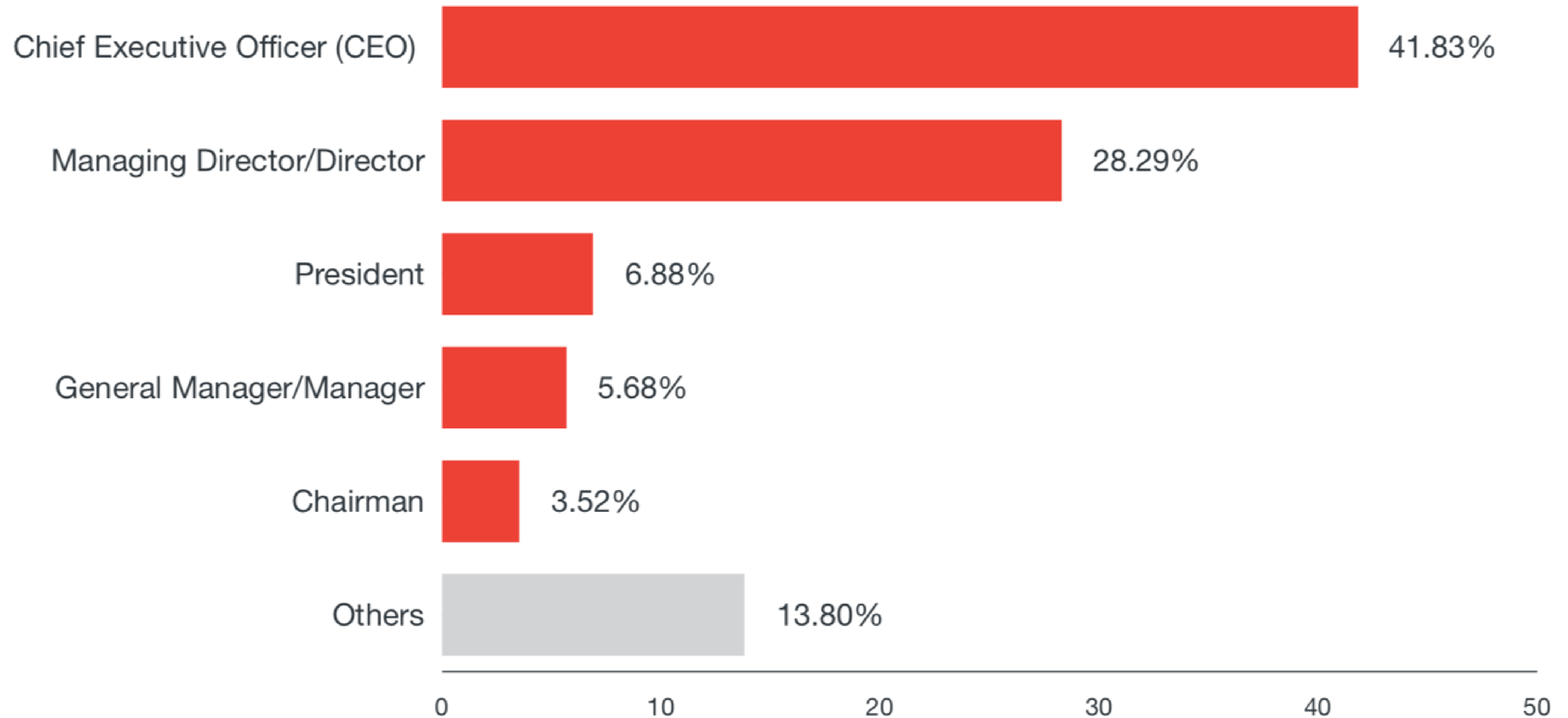
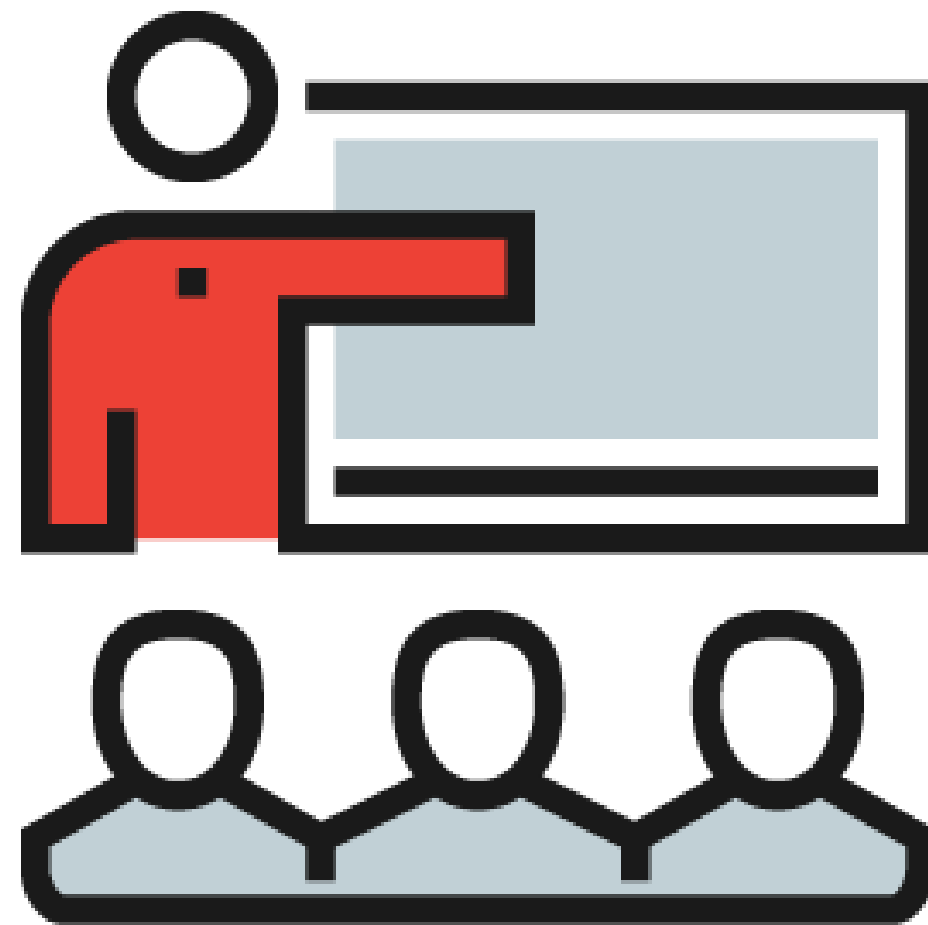


Figure 6. Percentage of BEC attack attempts that spoof specific positions, 1H 2017



# Protection Against BEC Scams



Raise employee  
awareness on how the  
scam works



Prevent social  
engineering attacks



...but Email is not the only  
Business Compromise







# Hacking Is Now the Main Cause of Data Breach



# Protection Against Data Breaches



Classify high-value  
assets or core data  
(crown jewels)



Know the indicators of  
compromise (IoCs) of  
known attacks



Cybersecurity is becoming  
more and more relevant

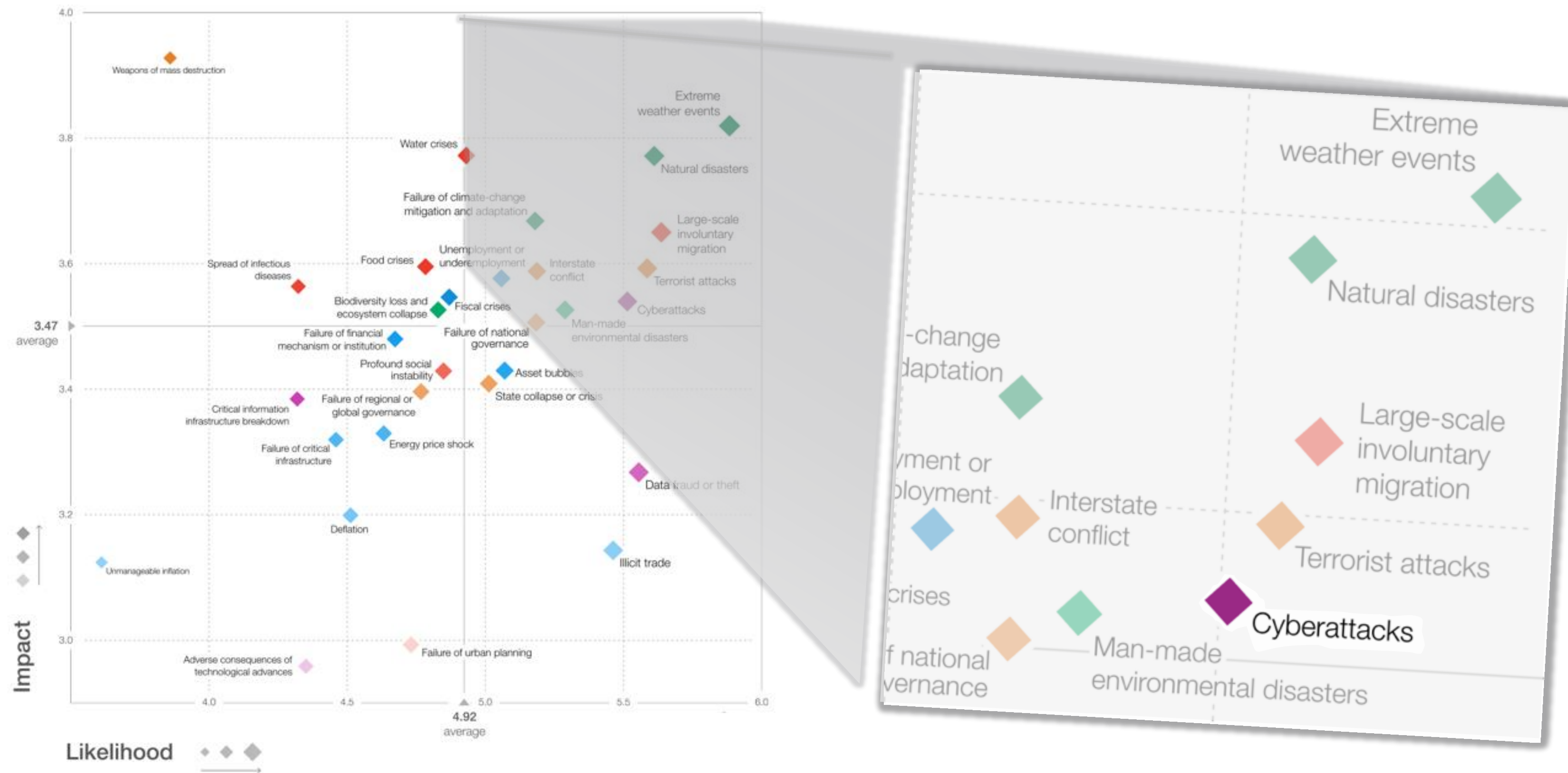


# WORLD ECONOMIC FORUM

The logo of the World Economic Forum, which consists of a stylized globe represented by a thin black line forming a circle with a gap at the bottom, and a thick black arc at the bottom representing the horizon.



# The Global Risks Report 2017







## General Data Protection Regulation

## CHINA'S CYBERSECURITY LAW





# Perguntas?



# Obrigado!

---

Perguntas ou acompanhamento?

**Franzvitor\_Fiorim@trendmicro.com** | Franzvitor Fiorim, Diretor Técnico Brasil