



CONGRESO DE  
**PREVENCIÓN  
DEL  
FRAUDE Y  
SEGURIDAD**

Construyendo **experiencias** desde un **entorno seguro**. ◀◀◀

**FECHA** 15 - 16  
DE NOVIEMBRE /2018  
HOTEL GRAND HYATT BOGOTÁ

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Global Research and Analysis  
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## Sistemas Financieros Bajo Ataque

Inteligencia de amenazas y  
seguridad accionable como  
estrategias de defensa



# Estado actual del fraude



Las transacciones fraudulentas a través de aplicaciones **móviles** crecieron un **600 %** desde 2015. \*



Se identificó **un nuevo ataque de phishing** cada 30 segundos; pérdidas globales **\$10,8 mil millones**. \*



Las transacciones de blanqueo de dinero se estiman **entre el 2 y el 5% del PIB global**. Eso es aproximadamente **\$1-2 billones USD** anualmente. \* \*

\*RSA Q1 2018 Fraud Report

\*\*PwC Global Economic Crime Fraud Survey 2018

https://www.plastico-bbva-bloqueo.com/

 **BBVA** Bancomer

Cancelaciones



Abusos de  
SSL en las  
páginas de  
Phishing con  
el uso de  
**"Let's  
Encrypt!"**

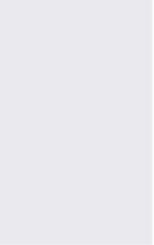
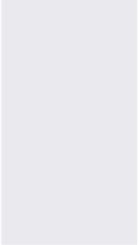
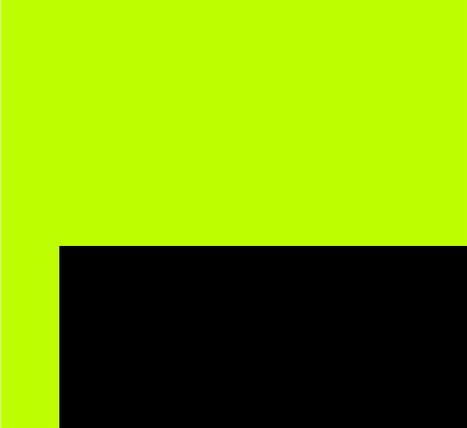
Paso 1 de 2





**58%**

**de todos los ataques de  
Phishing va en contra  
de las instituciones  
financieras  
(2018)**





# La evolución de las amenazas

# Motivaciones, Actores y Objetivos



Image source: <https://www.baesystems.com/en/cybersecurity/feature/the-unusual-suspects>



# How the Carbanak cybergang stole \$1bn

## A targeted attack on a bank

### 1. Infection



100s of machines infected in search of the admin PC



### 2. Harvesting Intelligence

Intercepting the clerks' screens



### 3. Mimicking the staff

How the money was stolen



# Tactics, techniques and procedures of financial attacks attributed to the Lazarus group

Lazarus is widely considered to be the group behind multiple, devastating cyberattacks including the \$81 million heist of Central Bank of Bangladesh, at the beginning of 2016, and several other attacks against banks worldwide. While conducting their operations, hackers follow a set of tactics, techniques and procedures which allow them to quietly penetrate targeted systems and gain access to critical ones.



## Step 1

Compromise of a webserver



OR



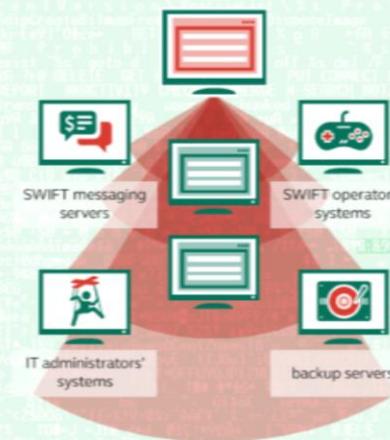
2. The exploit is placed on the hacked website with a whitelist of targets to serve the exploit to
3. The target visits a government website and becomes infected

## Step 2



## Step 3

Attackers analyze the network and identify critical assets in the organization including:



## Step 4



While investigating Lazarus' financial attacks, Kaspersky Lab researchers were able to identify 150+ different malware samples related to recent group's activity.

Kaspersky Lab products successfully detect and block all known malware used by the Lazarus group.

# The Geography of financial attacks by Lazarus group

The malware by Lazarus group, infamous for its theft of \$81 million from Central Bank of Bangladesh, has been active since at least 2009. It has been spotted in the last couple of years in at least 18 countries.





**Software Dev Mgr II**

**Job Description**

At BBVA, we are working to make banking better for everyone. That is where you come in. We are looking for smart, team oriented people who want to be part of a first-class workforce that gives people the tools they need to meet their financial goals, all while delivering an outstanding client experience. Learn more below.

**Relationship Director - Corporate Banking**

**Description**

The Relationship Director - Corporate Banking role is based within HSBC Corporate Banking – Commercial Banking UK HSBC Corporate Banking in the UK provides both domestic and international commercial banking services to our existing and prospective clients

**Business Development Executive - HSBC Insurance**

**Location**

Asia Pacific-Hong Kong-Kowloon-Tai [Kok Tsui](#)

HSBC Insurance provides a comprehensive range of life products and services to suit the every

**Finance**      **Engineering**      **Crypto Currency**

**INVESTMENT PROPOSAL**

**Chief Financial Officer**

**JOB DESCRIPTION**

The Chief Financial Officer is one of the most important roles at Luno. As CFO you will coordinate with all business departments in providing a financial perspective to all decision making, overseeing accounting operations and ensure timely and accurate financial reporting. You will be involved in day-to-day discussions with the Executive Management team, reporting directly to the CEO and also a pivotal role in investor relations.

**Engineering Manager**

**Job Description**

Our vision is to bring more innovation, efficiency, and equality of opportunity to the world by building an open financial system. Our first step on that journey is making digital currency accessible and approachable for everyone. Two principles guide our efforts. First, be the most trusted company in our domain. Second, create user-focused products that are easier and more delightful to use.

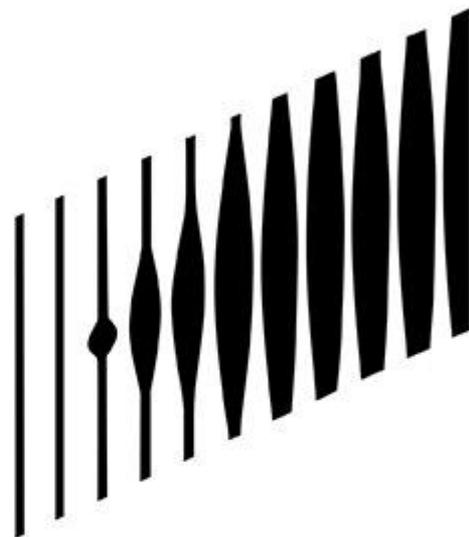
Moving and transacting financial assets safely is core to executing on our vision and building our brand of trust. The payments team builds shared infrastructure for **Coinbase and GDAX** to securely store and trade billion dollars of assets. We take on hard engineering problems in cryptography, security, blockchain technology and distributed systems, with a focus on building high reliability services for product teams.

**Senior Esports Project Manager**

The Blizzard Entertainment esports team is looking for a talented, enthusiastic, and highly organized project manager to oversee the tracking, documentation, and planning of our esports products. The ideal candidate must be a strong communicator, love the act of planning and organization, and enjoy working inside a flexible team-oriented environment. This candidate should be well versed in project management styles, methodologies, and processes. Tenacity, self-direction and follow-up skills are a must, as well as the ability to anticipate issues and find effective solutions.

**CIB Operations - Warsaw Corporate Center (WCC) - Project Manager - Vice President**

Req #: 170094080  
Location: Warsaw, MZ, PL  
Job Category: Project Management



**SONY**  
**PICTURES**



## **NSA Official Suggests North Korea Was Culprit in Bangladesh Bank Heist**

The deputy director of the NSA says he believes states have entered the bank-robbing business.

# BLUENOROFF

## Una unidad de Lazarus



Lazarus

Ciber Espionaje

Ciber Sabotaje



Bluenoroff

Robo de dinero

Minado de Cripto monedas

Desarrollo Backdoors

Exfiltración datos

DoS

Infiltración

Operación C2

Ataques de borrado

# CNBV y nueve bancos han sido hackeados

*Criminales han vulnerado la seguridad de instituciones financieras en México*

17/02/2017 09:40 AURA HERNÁNDEZ Y PAUL LARA



gob.mx

» CNBV » Sanciones

ADDITIONAL WATERING HOLES

The eye-watch (.jls) domain appears to have been used in watering-hole attacks on other financial sector websites. On 2016-11-08 we observed connections to the site referred from:

[http://www.cnbv.gob.mx/jax/jreema/Paginas/Sanciones.aspx](http://bxap://www.cnbv.gob.mx/jax/jreema/Paginas/Sanciones.aspx)

This is the page for the Comisión Nacional Bancaria y de Valores (National Banking and Stock Commission of Mexico), specifically the portion of their site that details sanctions made by the Mexican National Banking Commission. This organization is the Mexican banking supervisor and the equivalent of Poland's KNF.

### ALGUNAS VÍCTIMAS

En algunos países específicos, se ha descubierto los ataques a bancos e instituciones:

RANK	COUNTRY	COUNT
1	Poland	19
2	United States	15
3	Mexico	9
4	United Kingdom	7
5	Chile	6
6	Brazil	5
7	Peru	3
7	Colombia	3
7	Denmark	3
7	India	3



## TARGETS OF BANK HACK ATTACKS

Targets:

- Financial institutions
- Casinos

**NEW TONIGHT**

**REPORT LINKS NORTH KOREA TO CYBERATTACKS ON BANKS**

**CNN**

DOW ▲ 39.03

SITUATION ROOM

# Hackers Stole Millions of Dollars From Mexico banks



**SPEN**<sup>®</sup> SISTEMA DE PAGOS  
ELECTRÓNICOS  
INTERBANCARIOS

*Pagos más rápidos y seguros*

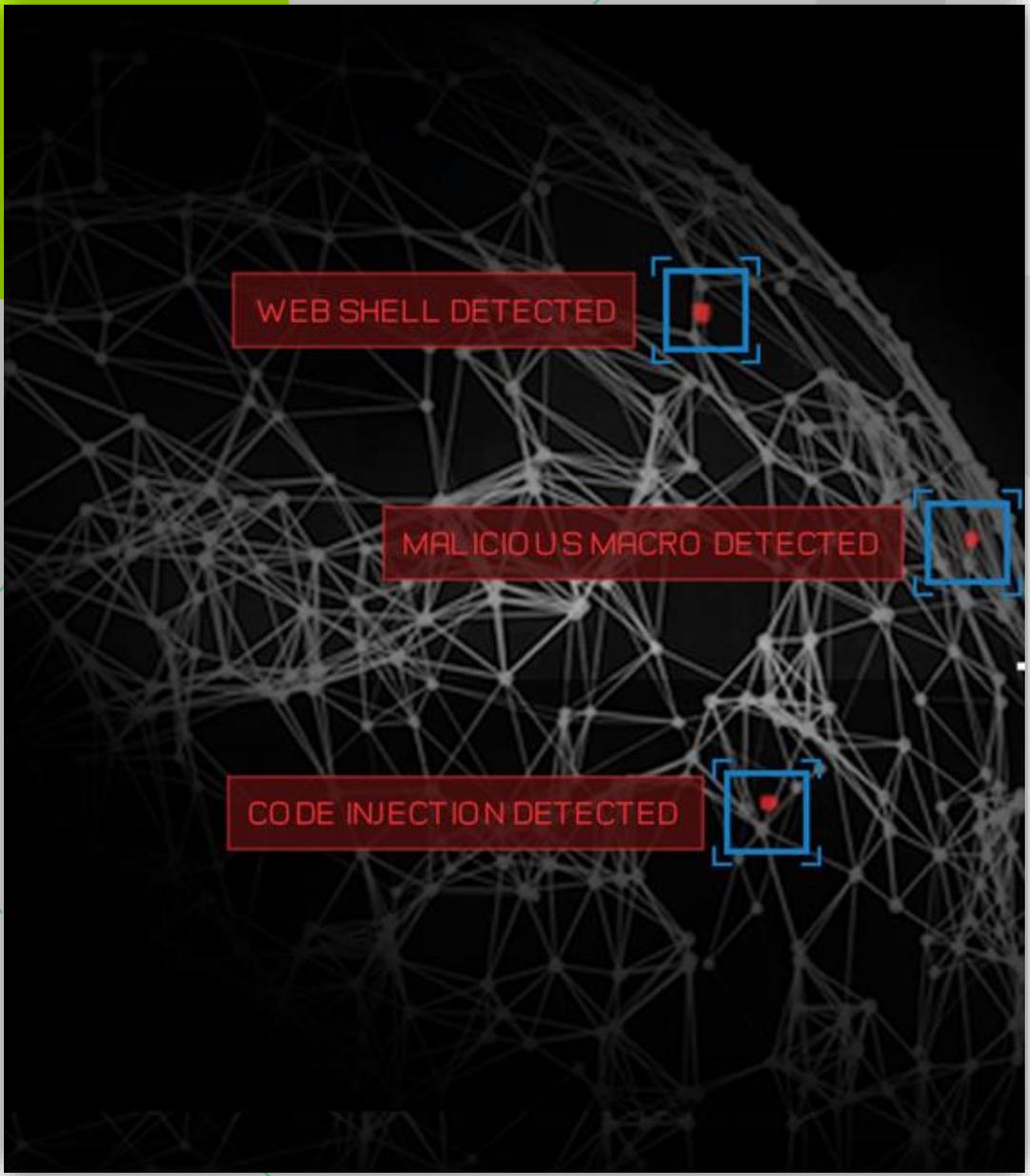
# Defensa proactiva ante las amenazas





Seguridad basada en estrategias, no solo en herramientas y cumplimiento de normativas





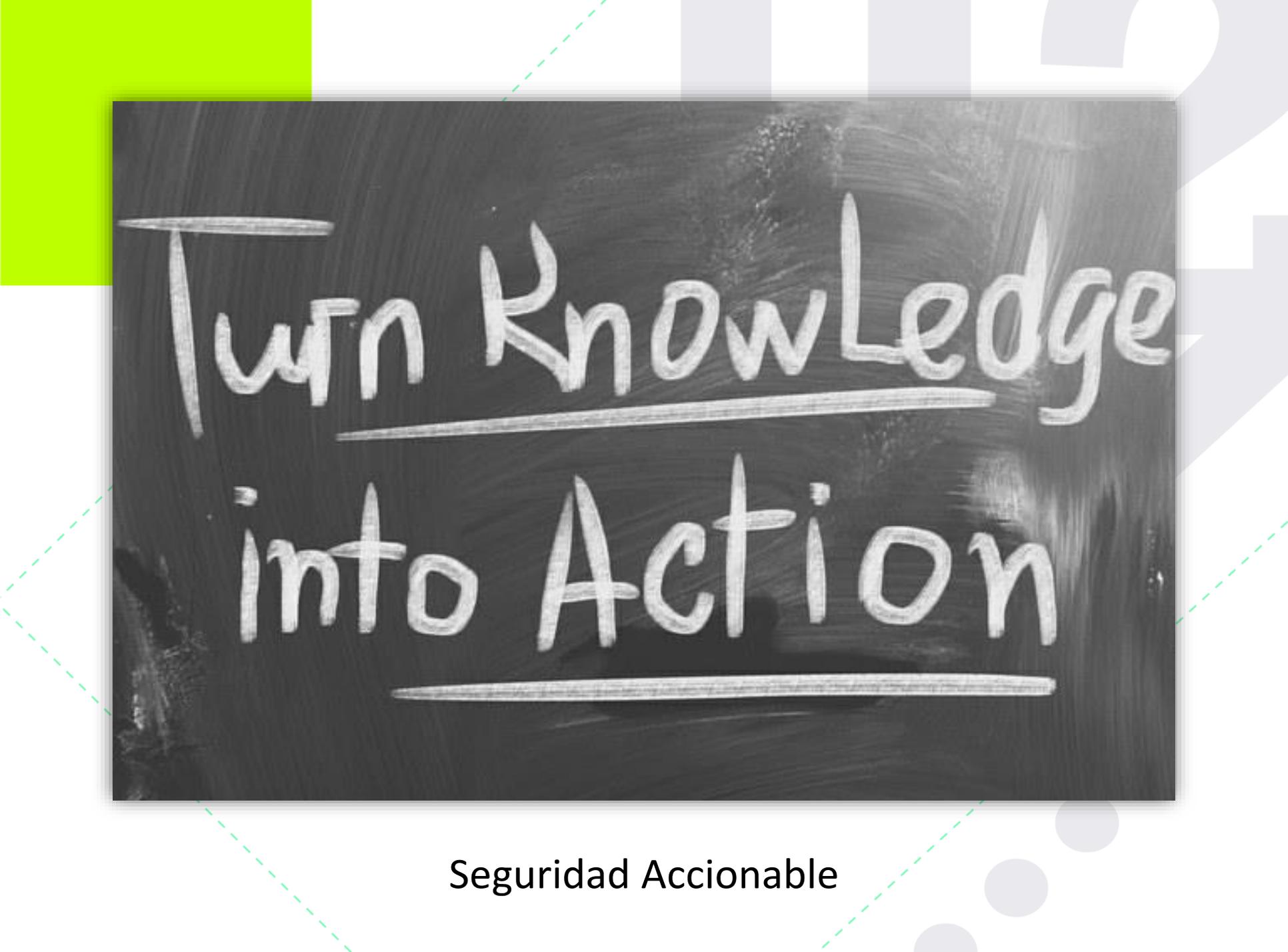
# Cacería de Amenazas (Threat Hunting)



## Inteligencia de Amenazas (Threat Intelligence) y Colaboración



Respuesta a Incidentes (IR)



Turn Knowledge  
into Action

Seguridad Accionable

A portrait of Eugene Kaspersky, the founder and CEO of Kaspersky, looking directly at the camera with a neutral expression. He has short, light brown hair and a light beard. He is wearing a light-colored, button-down shirt. The background is a dark, solid color.

We are here  
to save the world

Eugene Kaspersky, Founder and Chief Executive Officer

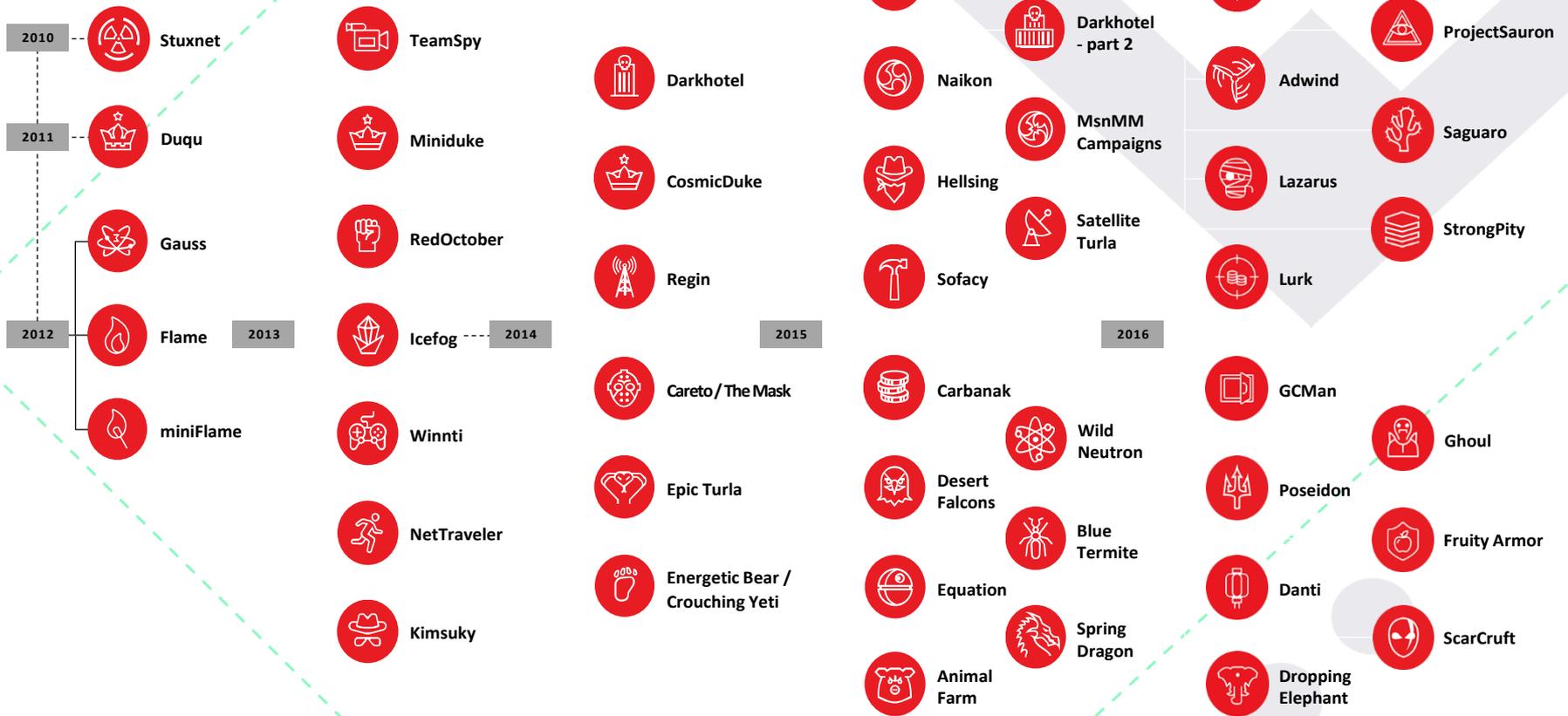
## GReAT - Investigación élite de amenazas

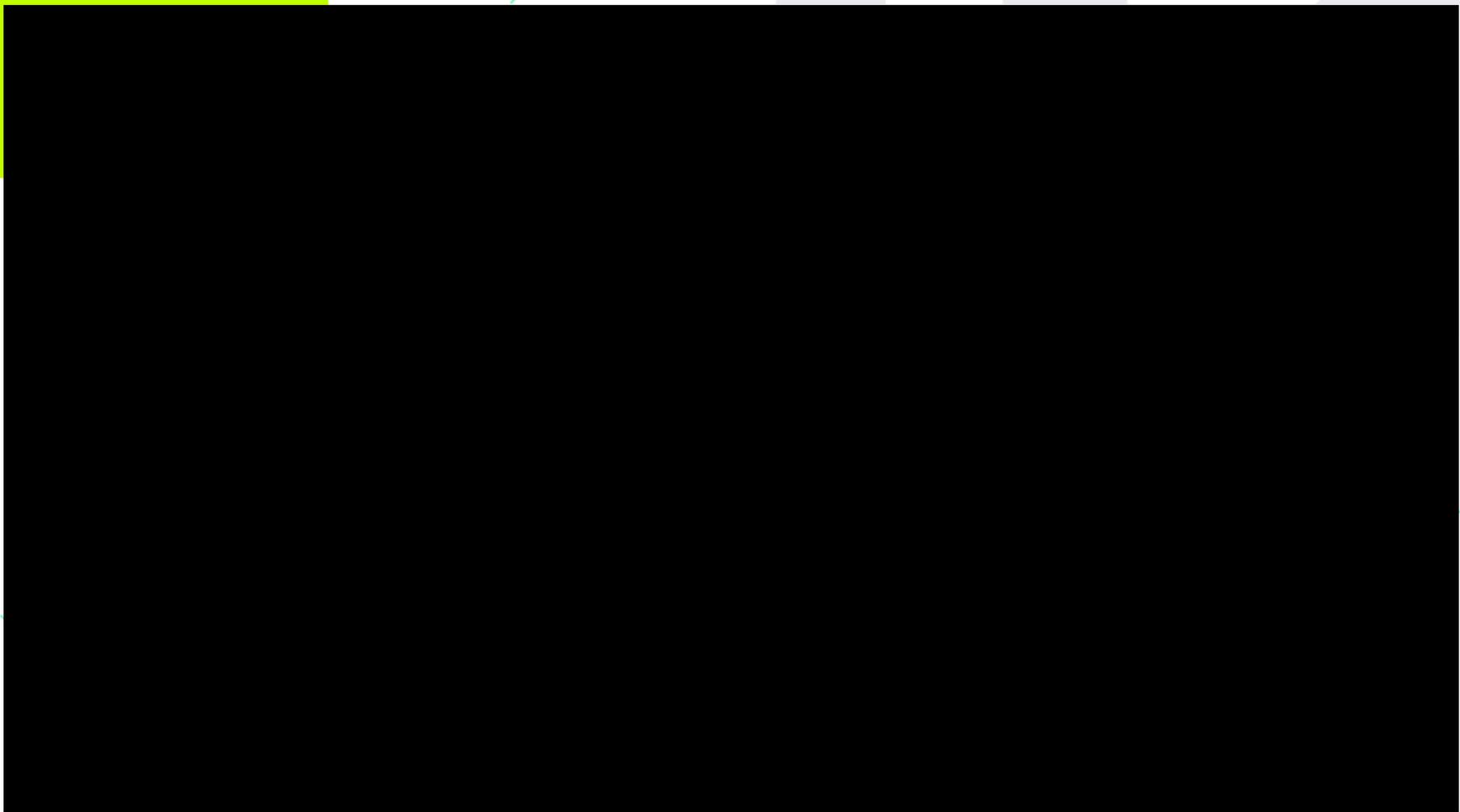
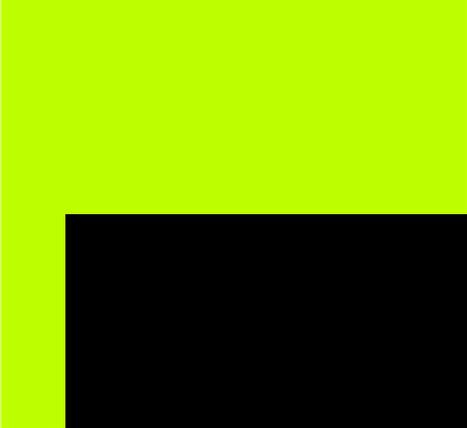
- Equipo global de investigación y análisis
- Fundado en 2008
- Inteligencia de amenazas, liderazgo en investigación e innovación
- Enfoque: APTs, amenazas a infraestructuras críticas, amenazas a sistemas financieros, ataques dirigidos, búsqueda de vulnerabilidades de día cero programas y sistemas.

# Ataques dirigidos

GREAT

Descubrimos y diseccionamos las amenazas más sofisticadas del mundo







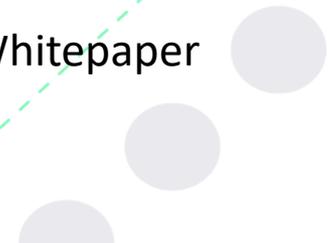
*“Fundamentalmente, si alguien quiere comprometer su red o dispositivo, seguramente lo va a hacer..... asumámoslo*

*Debemos entender que estamos en medio de una batalla, lo queramos o no y seguramente su red ya fue comprometida de alguna manera”*

Michael Hyden

Ex-director CIA, NSA

Microsoft Enterprise Cloud Teaming Whitepaper





Gracias

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