



CYFIRMA

DECODING THREATS

THE VALUE OF PREDICTIVE INTELLIGENCE

EXTERNAL THREAT LANDSCAPE
MANAGEMENT

2022

CYFIRMA AT A GLANCE

TRAILBLAZING EXTERNAL THREAT LANDSCAPE MANAGEMENT PLATFORM COMPANY



Founded in 2017 by ex-government intelligence head and CISO



AI/ML enabled, cloud native SaaS products – DeCYFIR and DeTCT



Won multiple renowned awards garnering global industry recognition



Established player in Japan; displaced larger competitors at Fortune 100 customers

Referenceable Fortune 500 clients



DIGITAL HEARTS



Mitsubishi Corporation

Orchestrating a brighter world

NEC

NTT DATA

NTT DATA INTELLILINK Corporation

TOSHIBA

TOPPAN

ZUELLIG PHARMA

Trusted Partnerships



isv accelerate



DIGITAL HEARTS

Orchestrating a brighter world

NEC

NTT DATA

NTT DATA INTELLILINK Corporation

PRIANTO

inflow
Information Integrity

Backed by Marquee Investors



ZODIUS

Z3Partners

5

Region Presence (Singapore, Japan, India, US, EU)

>100

GB Data analyzed every 8 hours

1.4mn+

Threats analyzed and prioritized¹

145+

Predictive Advisory Release²

25+

Clients avoided financial, reputational & productivity damage¹

~USD 2bn

Tangible & Intangible losses avoided¹



WHY ARE WE DOING WHAT WE ARE DOING

ONCE UPON A TIME...

Understand the identified threat actors, campaigns, and target assets that could affect your customer and the industry they are operating in, to take corrective actions well before the threat and risk is realised.

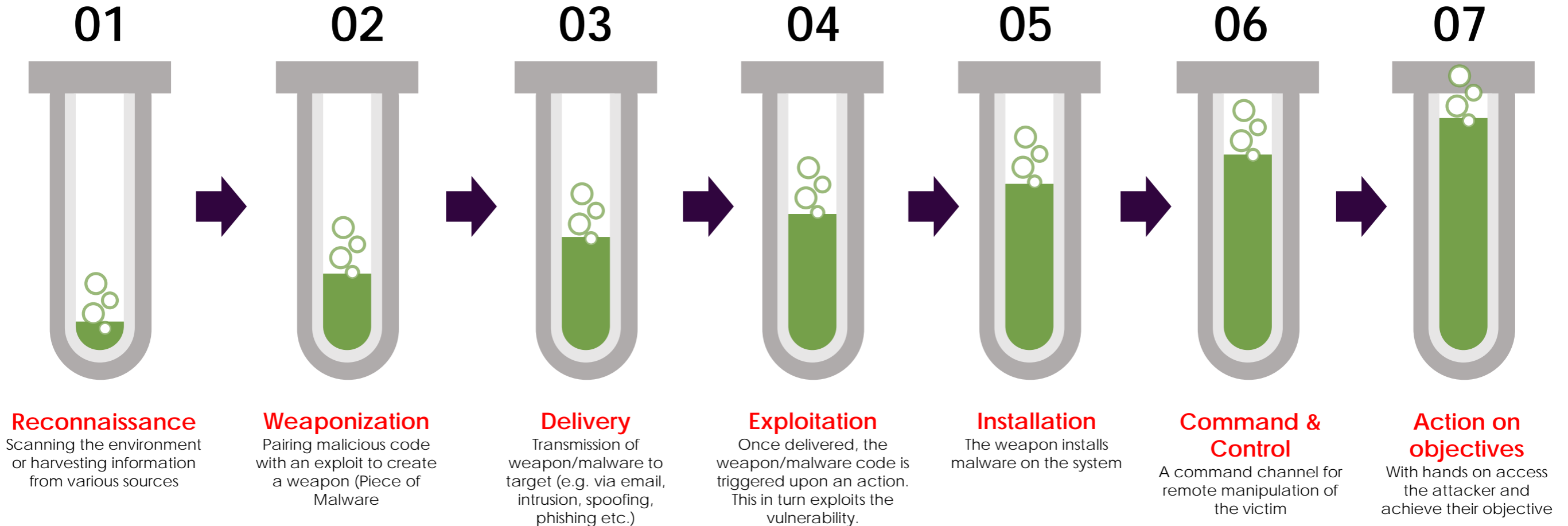


A secure "inside" does not prevent you from risks and threats from the "outside"

WHY ARE WE DOING WHAT WE ARE DOING

IDENTIFYING TARGETED INTELLIGENCE TO PREVENT ATTACKS

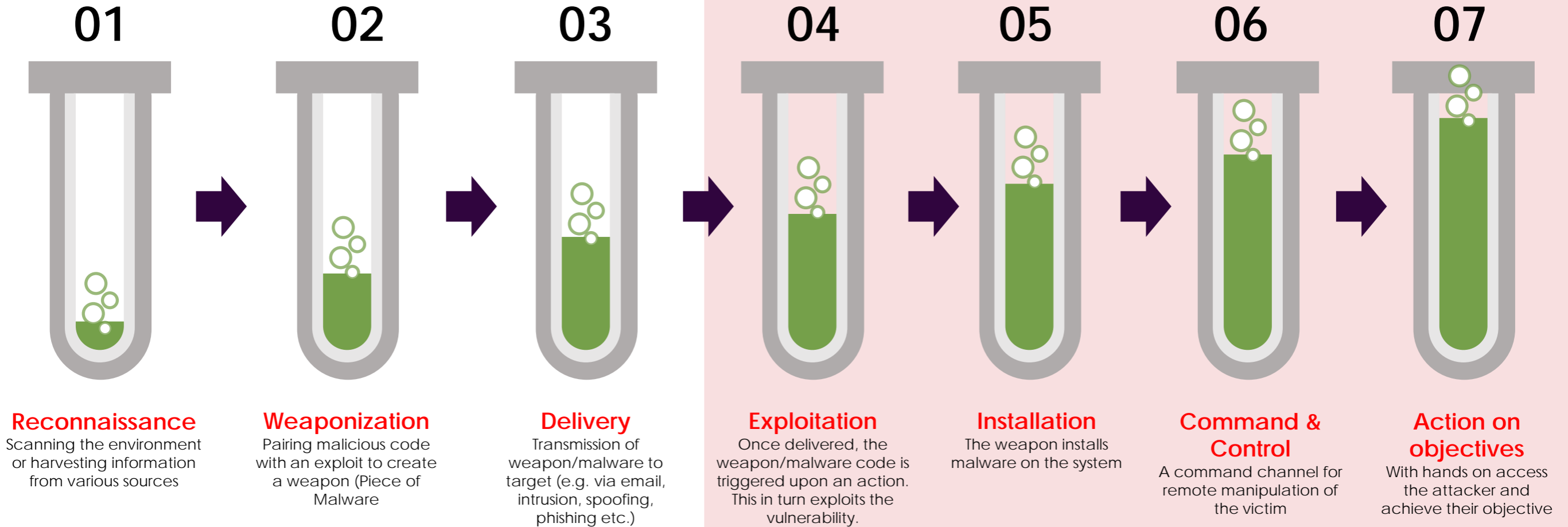
The Kill Chain



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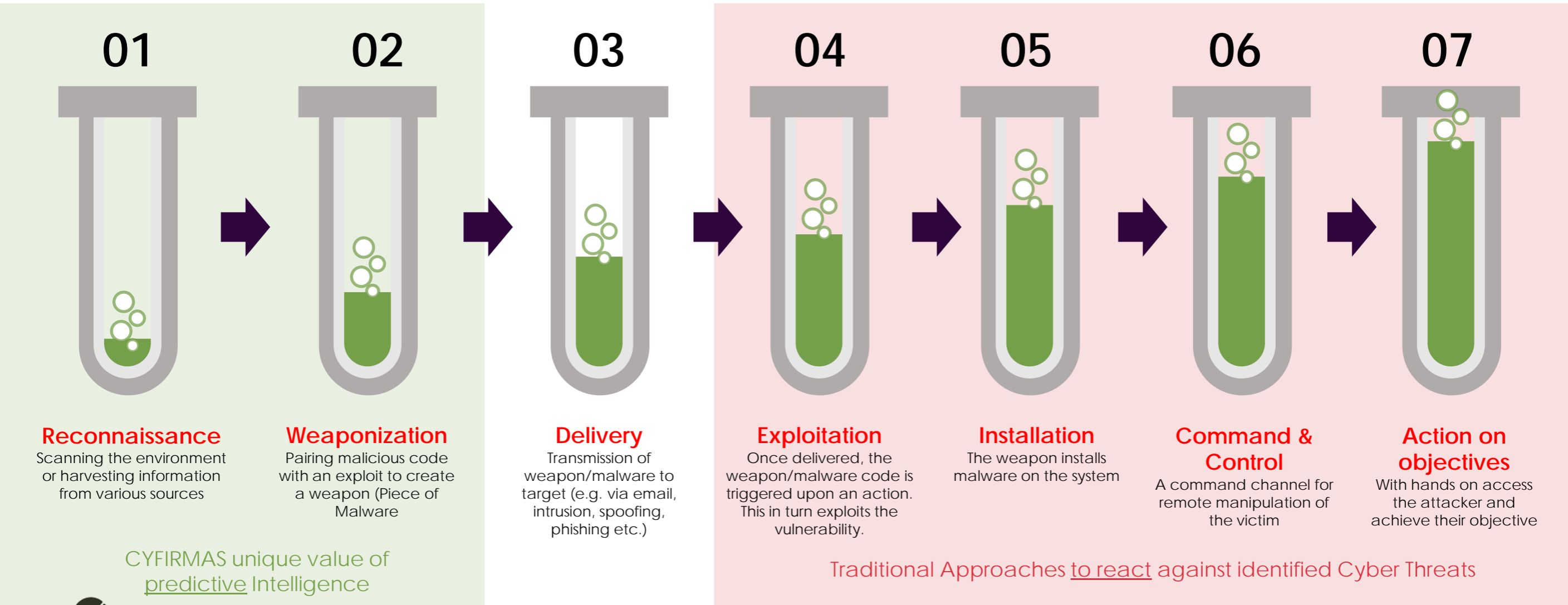


Traditional Approaches to react against identified Cyber Threats

WHY ARE WE DOING WHAT WE ARE DOING

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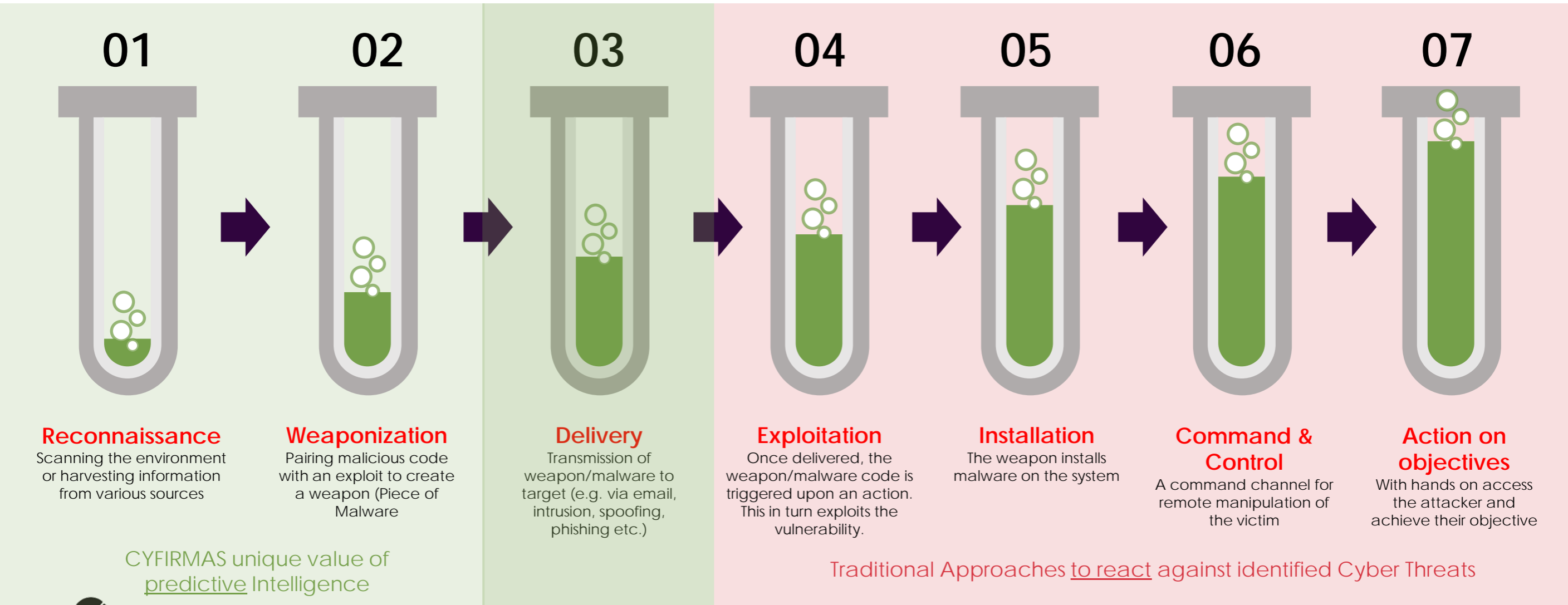
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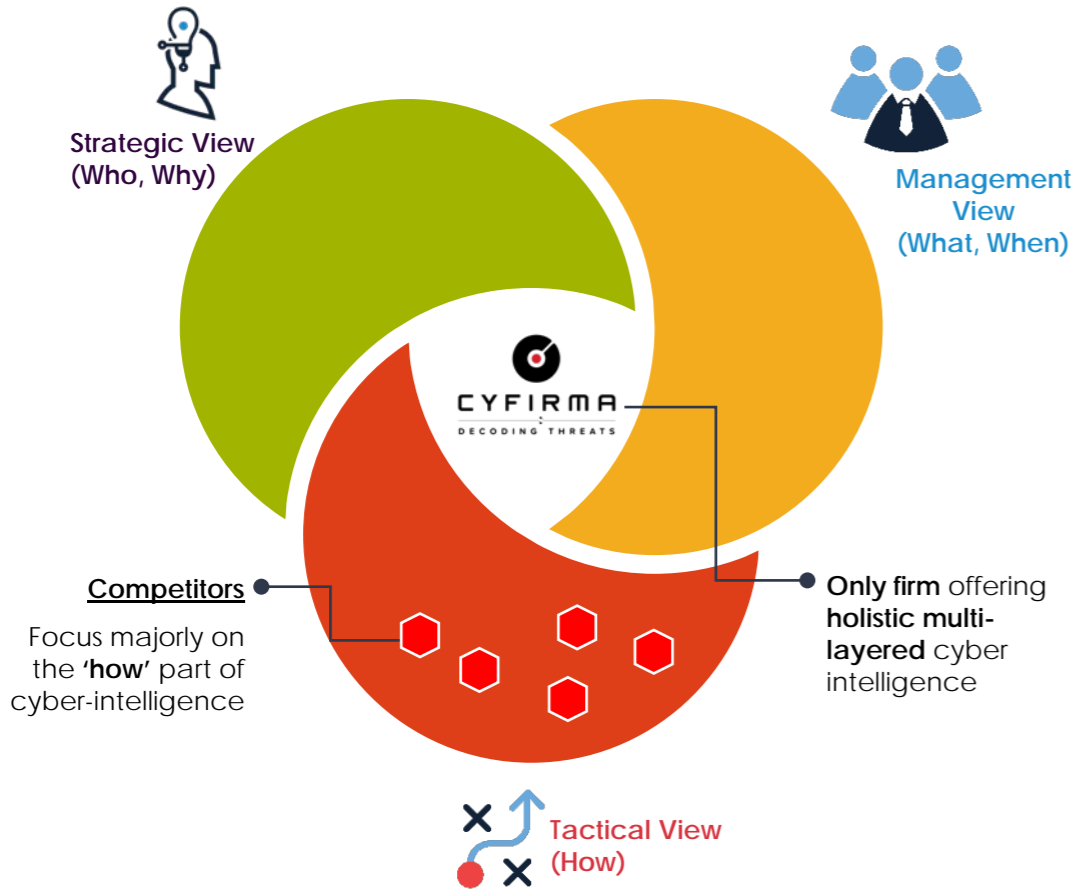
The Kill Chain



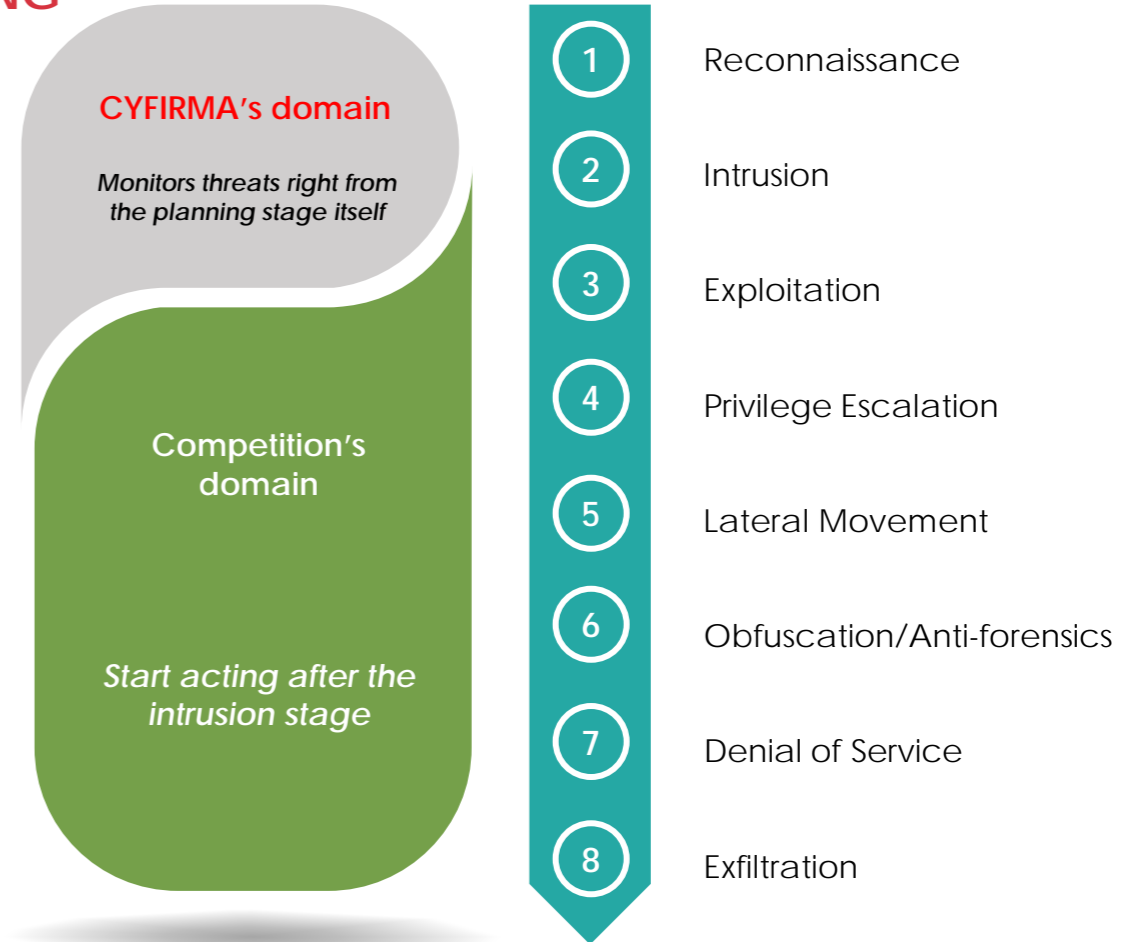
COMPETITIVE LANDSCAPE (1/2)

MULTI-LAYERED CYBER INTELLIGENCE UNRAVELLING THREATS AT THE PLANNING STAGE ITSELF

COMPETITIVE POSITIONING



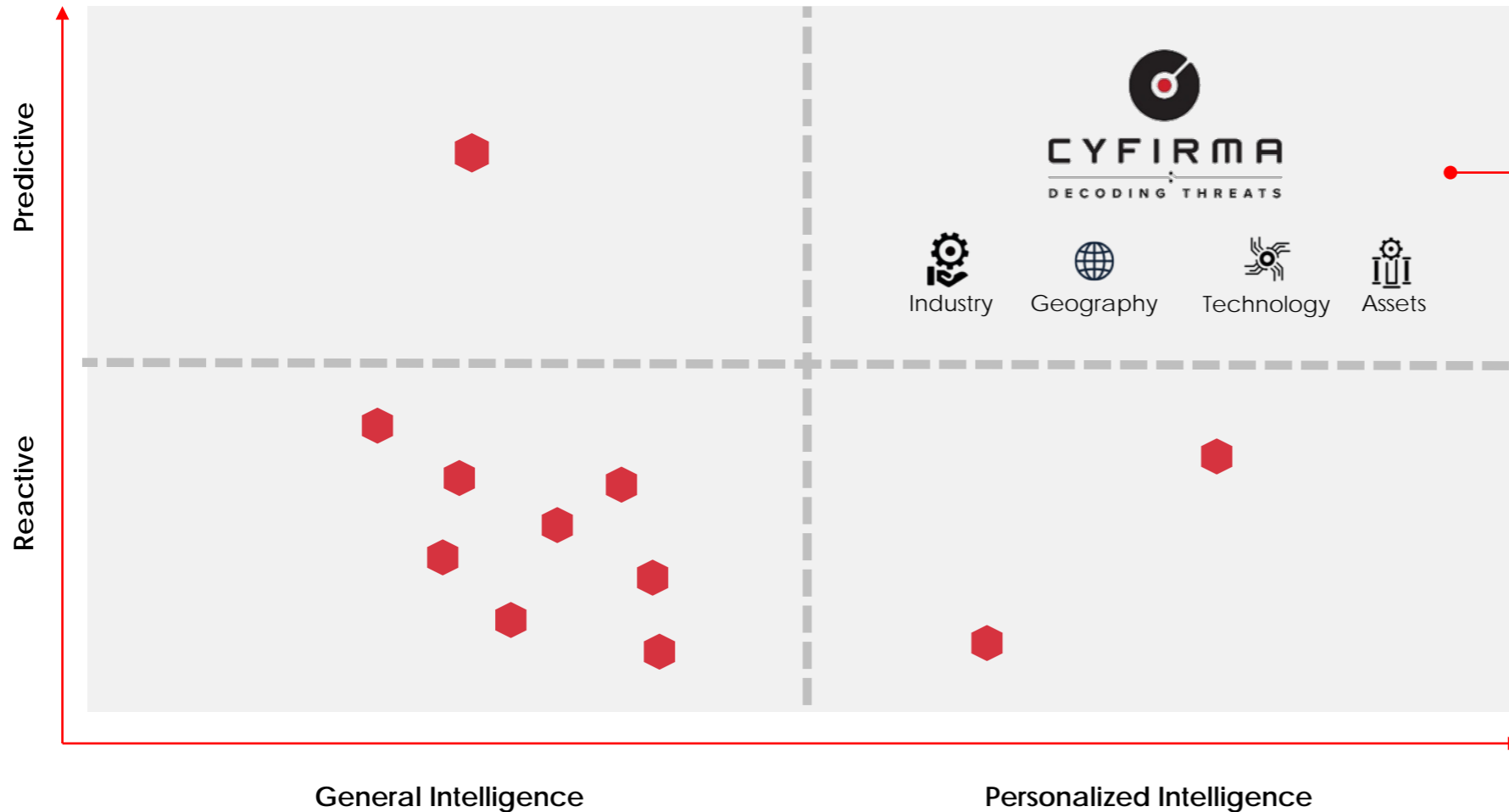
CYFIRMA offers clients comprehensive views of their external threat landscape



CYFIRMA provides early warning to clients on attacks at the planning stage*

COMPETITIVE LANDSCAPE (2/2)

OFFERING PREDICTIVE & PERSONALIZED CYBER INTELLIGENCE



KEY DIFFERENTIATORS

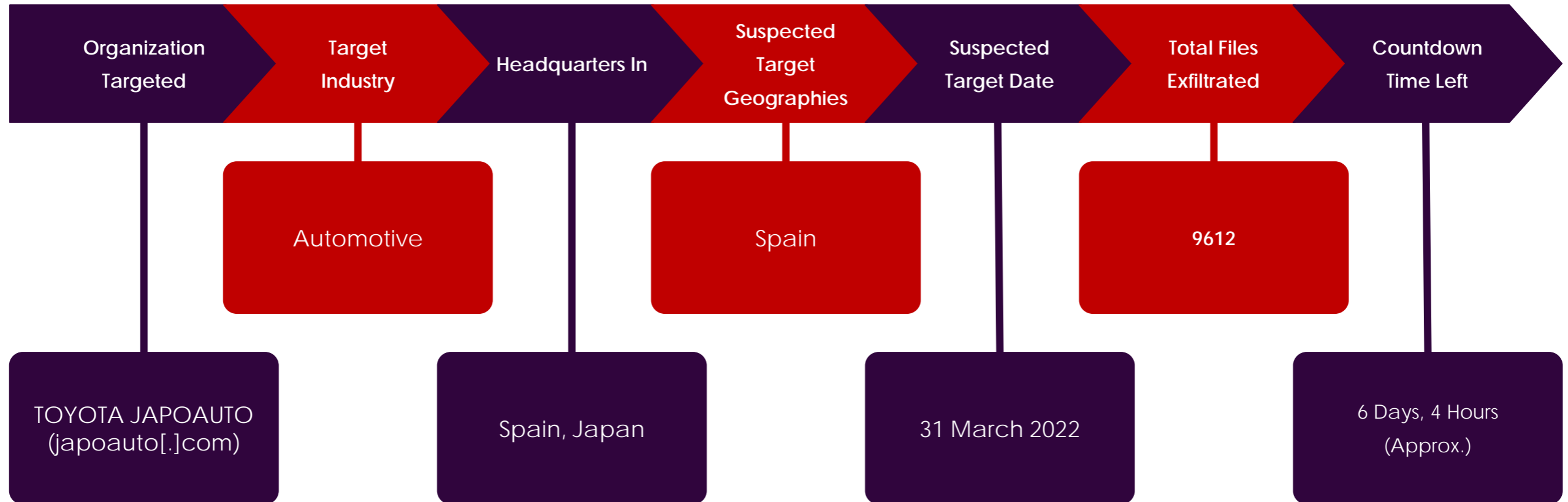
Market leader and only player offering Cyber Intelligence that is:

- Predictive
- Personalized to – Organization's Assets / Geography / Industry / Technology
- Single pane of glass – complete view of threat landscape
- Multi-layered – S, M, T
- Cyber Intelligence combined with Attack Surface Discovery and Digital Risk protection
- Developed for CISOs, CROs, Security Ops team

PREDICTIVE INTELLIGENCE

A REAL LIFE EXAMPLE

LockBit2.0 Ransomware Targets **TOYOTA JAPOAUTO**



EXFILTRATED SENSITIVE INFORMATION COULD CONTAIN SENSITIVE DETAILS, PII, FII, CII AND MORE.



What we know about LockBit 2.0 Ransomware

The ransomware is suspected to be **active since July 2021** and has targeted multiple organizations across industries and geographies.

For initial access into the system of the organization, the most common method used by the ransomware operators are **insider threats (offering monetary benefits to disgruntled employees)**, using RDP connections, vulnerabilities & exploits observed in public-facing servers, VPN servers, phishing emails, and drive-by downloads. They try to **gain access through StealBit Trojan, Metasploit Framework, and Cobalt Strike on domain admin accounts exploiting vulnerabilities such as CVE-2019-0708** (BlueKeep vulnerability).

Post gaining access, the ransomware group **carries out reconnaissance for sensitive information and active directory environment**. The operators appear to be **using the Double Extortion strategy** – demand ransom to **provide decryption keys for exfiltrated data** or **threaten to release the data in public** if the ransom is not paid. For this, they set up a count-down timer to make the ransom payments.

The ransomware operators are **believed to be Russian and offer Ransomware-as-a-Service (RaaS) model** and are suspected to be leveraged by Russian cybercriminals.

PREDICTIVE INTELLIGENCE

A REAL LIFE EXAMPLE

Based On
Mitre Attack,
Following Are
The TTPs Used
By Them

Sr.No	Tactics	Techniques
1	TA0043: Reconnaissance	T1595.001 : Active Scanning – scanning IP Blocks
2	TA0042: Resource Development	T1584.001 : Compromise Infrastructure - Domains
3	TA001: Initial Access	T1584.001 : Compromise Infrastructure - Domains T1190 : Exploit Public-Facing Application
4	TA002: Execution	T1059.001 : Command and Scripting Interpreter- PowerShell T1059.003 : Command and Scripting Interpreter- Windows Command Shell T1047:Windows Management Instrumentation T1547.001:Boot or Logon Autostart Execution Registry Run Key
5	TA003: Persistence	T1021.002:Remote Services Remote Desktop Protocol
6	TA008: Lateral Movement	T1570 : Lateral Tool Transfer
7	TA0040: Impact	T1486 : Data Encrypted For Impact T1490 : Inhibit System Recovery T1489 : Service Stop

PREDICTIVE INTELLIGENCE

A REAL LIFE EXAMPLE

UNTIL FILES

6D 04: 13: 52

PUBLICATION

31 Mar, 2022 00:00:00



Japauto.com

The first part of the data to publish JAPAUTO SL is located in LOGRONO, Spain and is part of the Automobile Dealers Industry.

ALL AVAILABLE DATA WILL BE PUBLISHED

NAME

DATA

SIZE

OUR 6 PILLARS FOR PREDICTIVE INTELLIGENCE

SIX INTELLIGENCE VIEWS ON A UNIFIED PLATFORM TO MANAGE CYBER THREATS AND RISKS



1

ATTACK SURFACE DISCOVERY

Identify 'doors' and 'windows' into the organization

Business Outcome: Real-time continuous monitoring to identify shadow IT or porous systems which can be accessed by cybercriminals. **Awareness of attack surface will allow you to conduct a realistic cost-benefit analysis of each asset and decide how to shrink your attack surface.**



2

VULNERABILITY INTELLIGENCE

Keys to 'doors' and 'windows' that are available for cyber criminals to exploit

Business Outcome: Vulnerabilities are mapped to assets and associated exploits and ranked based on criticality. **This allows the business to optimize resources to focus on the most important and urgent gaps.**



3

BRAND INTELLIGENCE

Know when your brand is under attack

Business Outcome: Understand who, why and how your brand is being targeted, get complete view of brand infringement. **Protect the brand and retain customer loyalty by ensuring it is not being tarnished by corporate espionage, insider threats or other malicious bad actors.**



4

DIGITAL RISK PROTECTION

Clarity on digital profile, data leaks, breaches, and impersonations

Business Outcome: Unveil digital footprints and cases of impersonation and data leaks. Get near real-time alert on your data leaked in the wild. **With this knowledge, you can plug the gap and avert any further reputation and financial damage.**



5

SITUATIONAL AWARENESS

Gain control of evolving threat landscape by understanding emerging threats, mitigations and potential attack scenarios

Business Outcome: Quick view of cyberattack, incident and breach taking place in your industry, the technology you use, and the geography you operate in. **These insights and impact can guide important business decisions including cyber investments.**



6

CYBER-INTELLIGENCE

Predictive, personalized, multi-layered, contextualised intelligence dissects a cyberattack campaign to answer WHO, WHY, WHAT, WHEN, HOW of a cyberattack campaign in the making

Business Outcome: Get complete view and insights to your external threat landscape. **Keep the enemy at bay, receive early warning to fend off cyberattacks to avoid disruption that could threaten business.**



CYFIRMA

DECODING THREATS

Japan | Singapore | India | USA | EU

THANK YOU

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www.cyfirma.jp