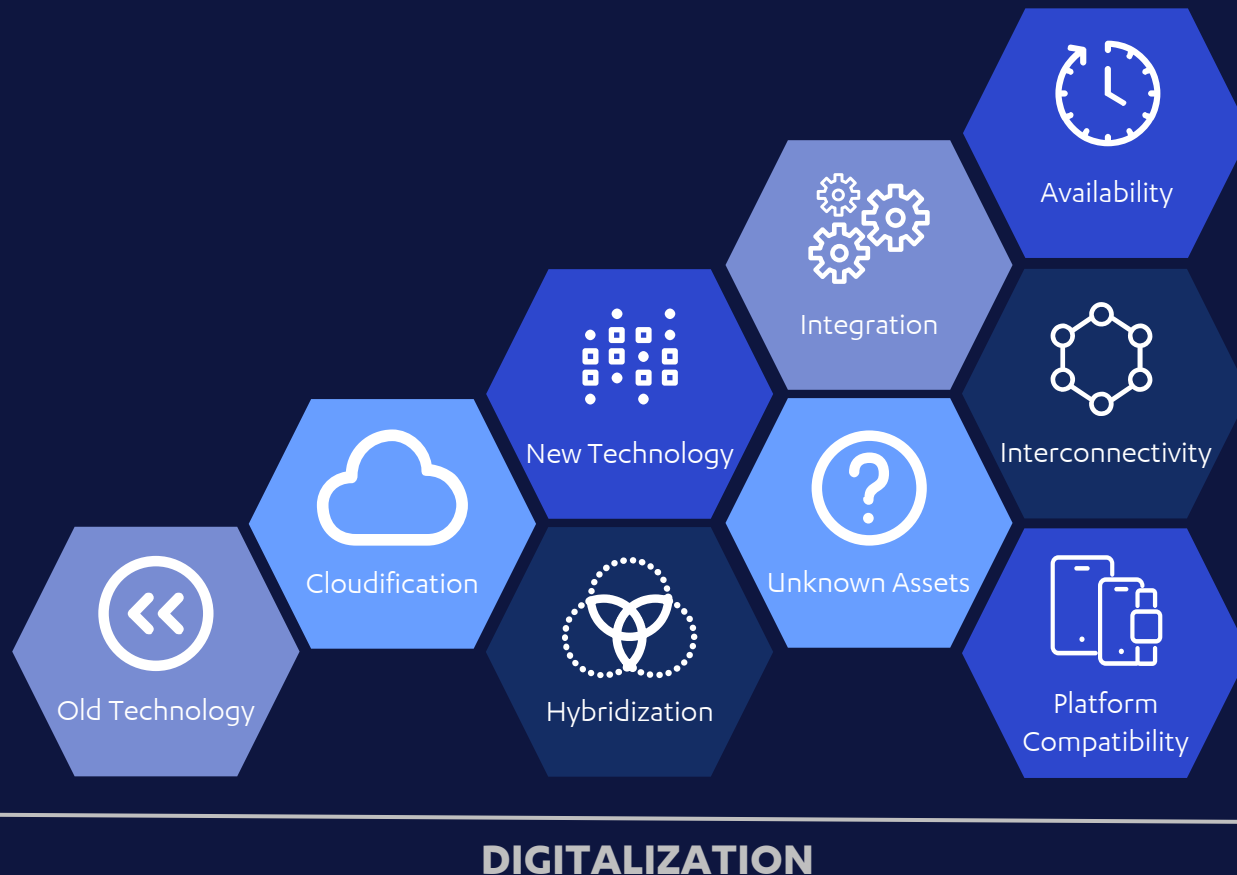


Accelerating the Transition to Outcome- Based Security

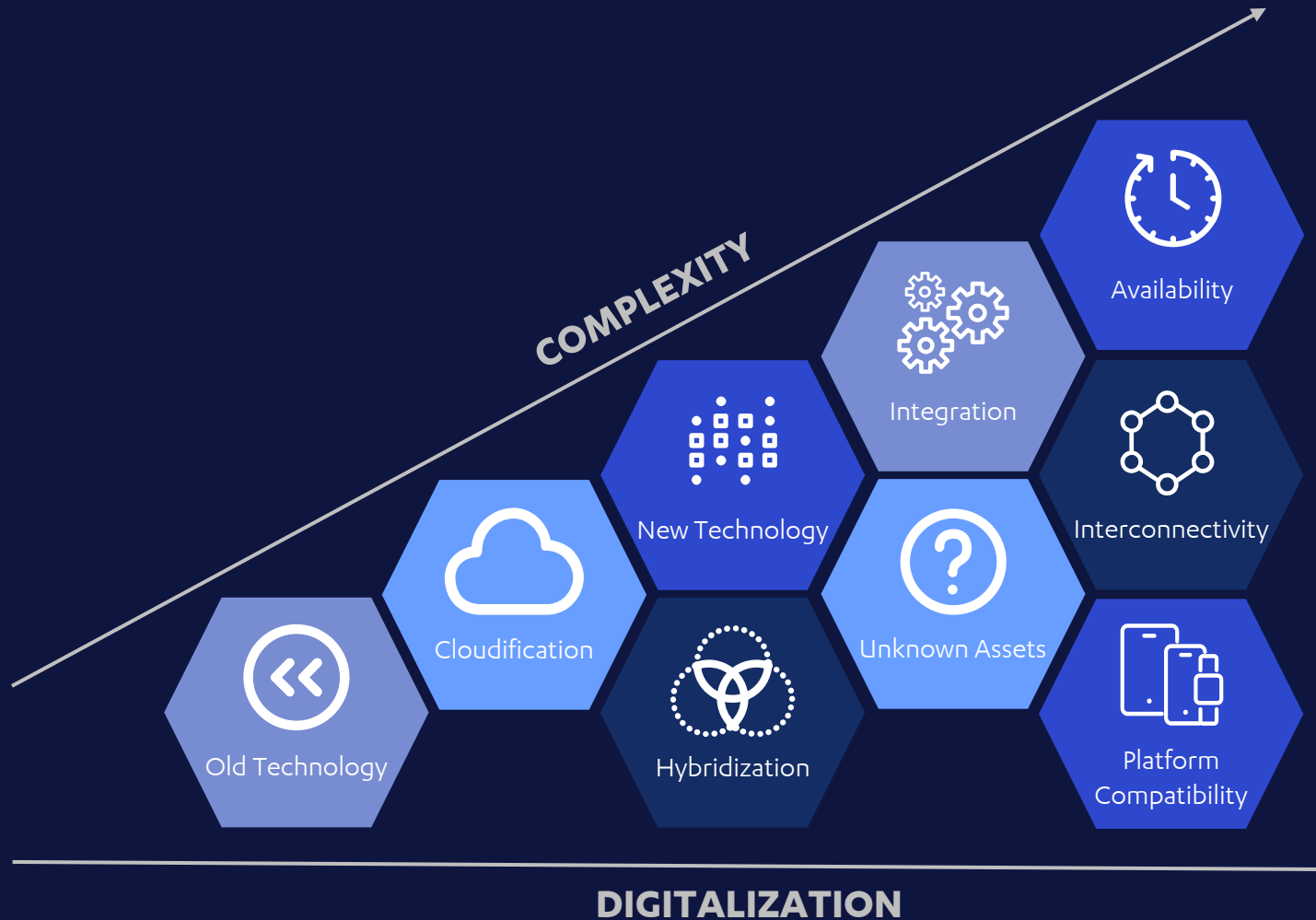
Christine Bejerasco
CTO

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secure

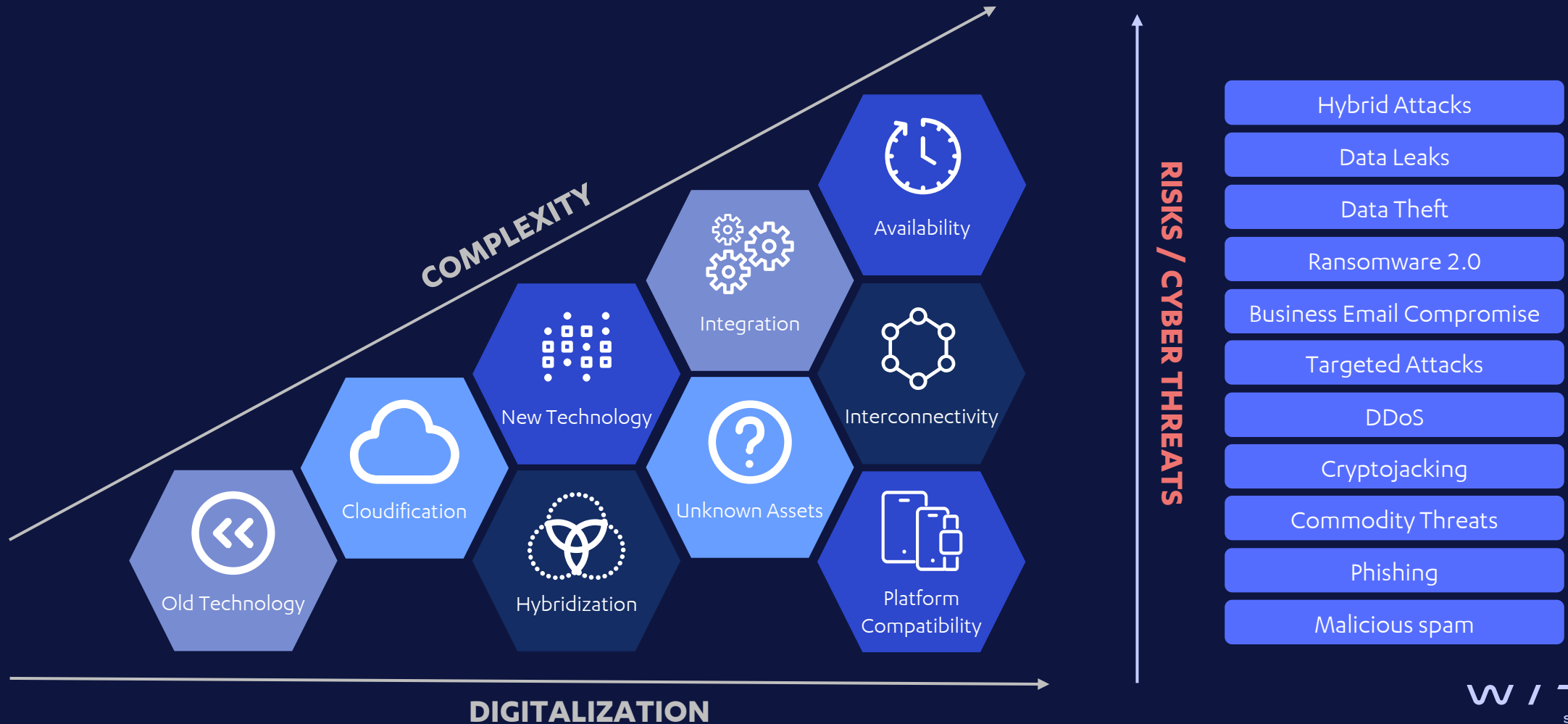
Effects of Digital Transformation



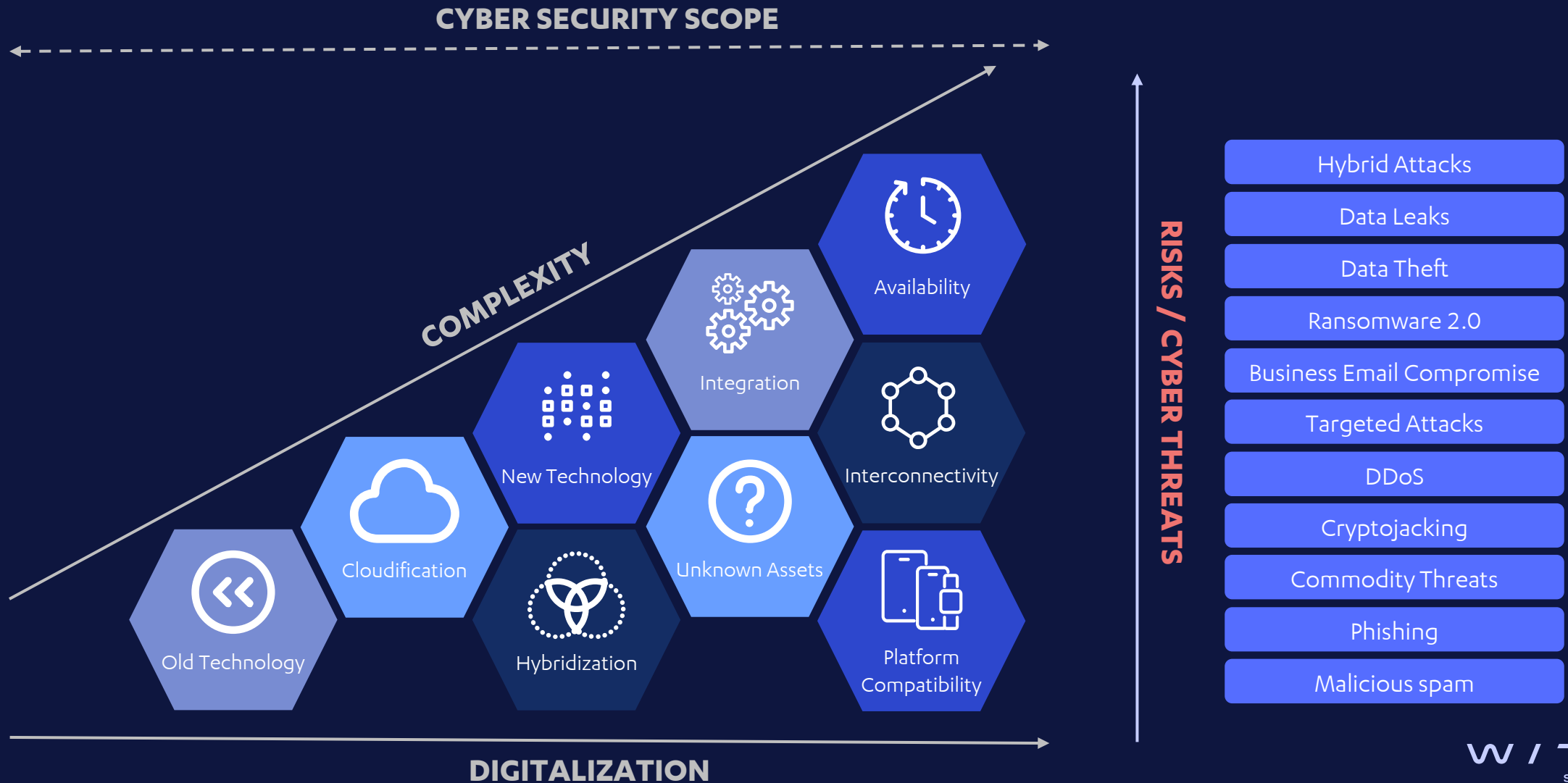
Effects of Digital Transformation



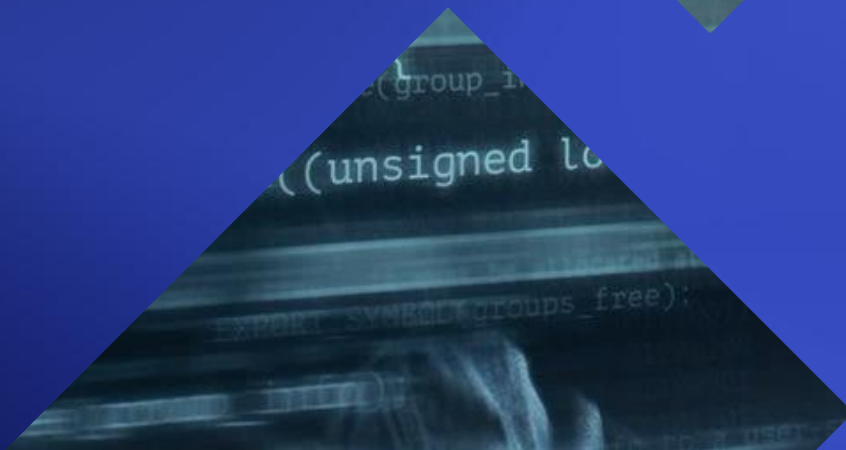
Effects of Digital Transformation



Effects of Digital Transformation



Supply Chain Attacks



2011

ESTsoft ALZip software
(Threat: Backdoor.Agent.Hza)
Computer game publisher
(Threat: Winnti)

2013

Simdisk (Threat: Castov)

2014

GOM Player (Threat: Miancha)
ICS/SCADA manufacturer sites
(Threat: Havex)

2015

League of Legends & Path of Exile
(Threat: PlugX)
EvLog (Threat: Kingslayer)
Xcode (Threat: XcodeGhost)

2016

Transmission
(Threats: OSX Keranger & OSX Keydnep)
MSP (Threat: CloudHopper)
Linux Mint (Threat: backdoor)
FossHub (Threat: MBR writer)
Ask Partner Network
(Threat: banking trojans)

2017

M.E.doc (Threat: NotPetya)
UltraEdit (Threat: WilySupply)
HandBrake (Threat: OSX Proton)
Leagoo (Threat: Android Triada)
NetSarang (Threat: ShadowPad)
CCleaner (Threat: Floxif)
PyPI repository (Threat: typosquatting)
Elmedia Player (Threat: OSX Proton)
IBM Storwize (Threat: Reconyc)
WordPress repository (Threat: backdoors)

2018

MediaGet (Threat: Dofoil)
MEGA Chrome extension
(Threat: cryptocurrency stealer)
Magecart attacks
PDF Editor application
(Threat: cryptominer)
Remote support solutions provider
(Threat: 9002 RAT)
Webmin (Threat: backdoor)
event-stream npm package
(Threat: cryptocurrency stealer)
Docker Hub (Threat: cryptominer)

2019

Asus live update
(Threat: ShadowHammer)
DoorDash
(Threat: unauthorized access
to user data)

2020

Github (Threat: Octopus Scanner)
RubyGems (Threat: cryptocurrency stealers)
Able Desktop (Threat: backdoors)
VGCA (Threat: PhantomNet)
Websites that support WIZVERA VeraPort
(Threat: Lazarus)
Noxplayer (Threat: backdoors)
Solarwinds (Threats: Sunspot, Sunburst, Teardrop)

2021

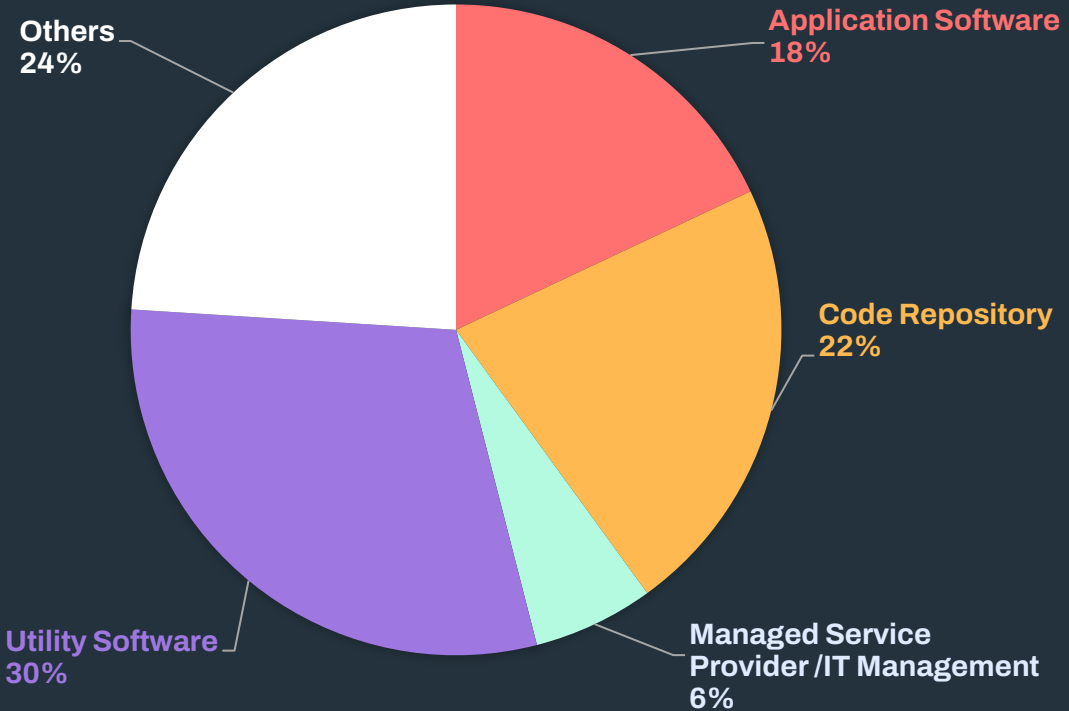
NPM Packages (several)
PyPI (Threat: dependency confusion)
Codecov (Threat: backdoor)
Kaseya VSA (Threat: Revil)
Xcode (Threat: XCodeSpy)
PasswordState
(Threat: infostealer)

2022

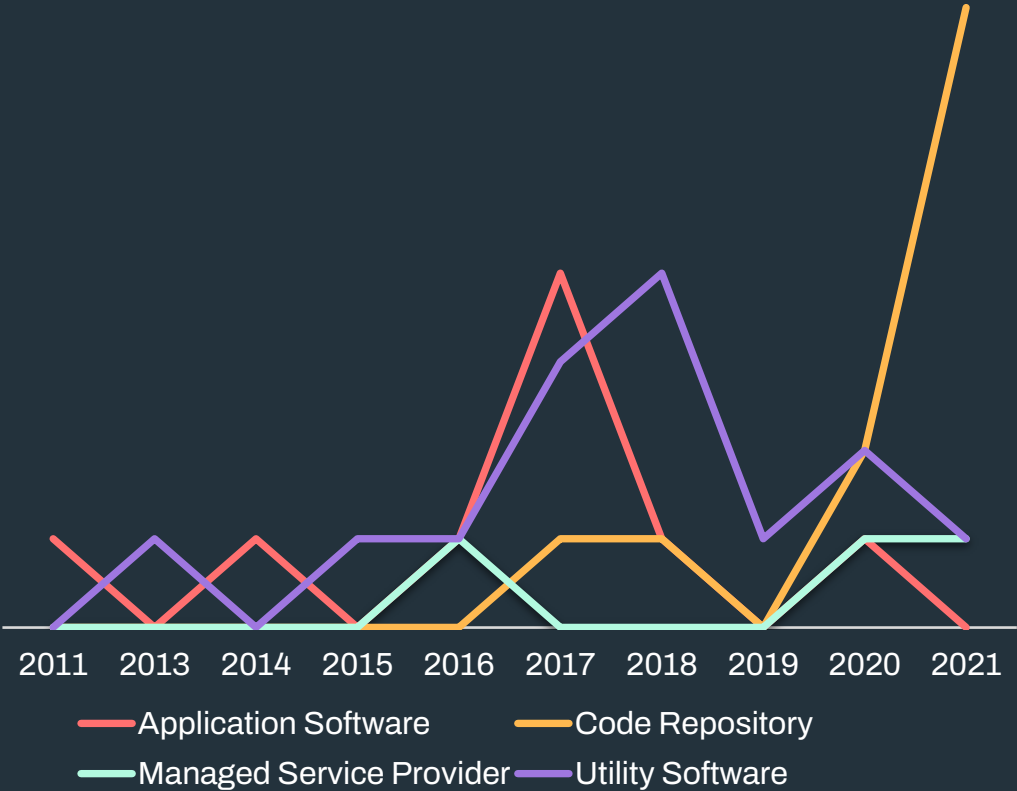
AccessPress (Threat: backdoor)
NPM
PyPI

Noteworthy Supply Chain Attacks

Supply Chain Attack Target Type



Supply Chain Attack Target Type by year



Email-borne Attacks

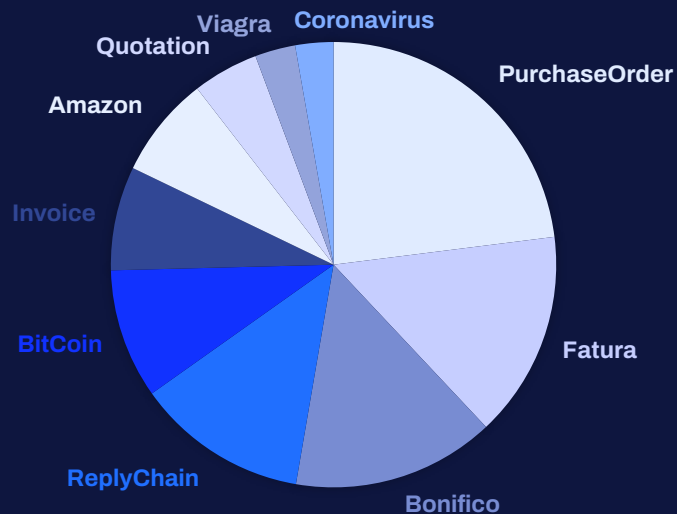


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General Spam & Phishing

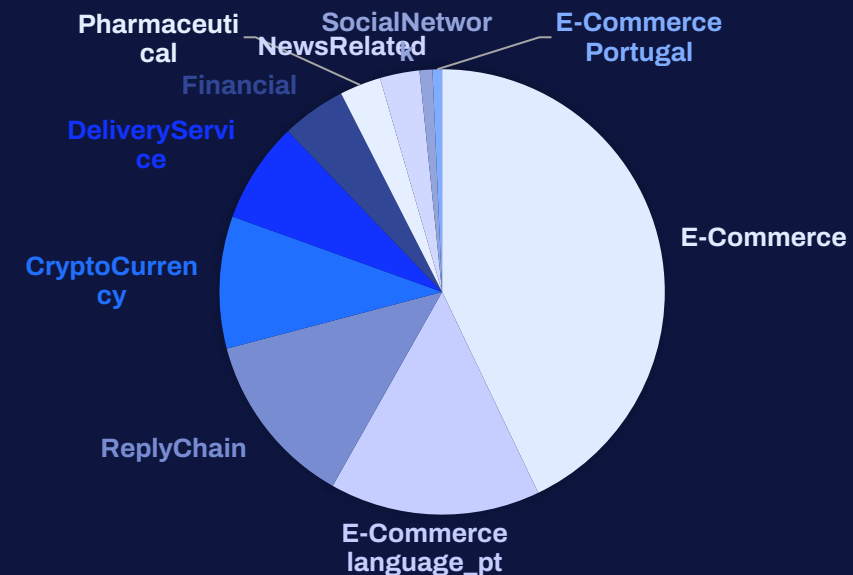
Brands & Topics

Themes, brands and topics used as part of the email body, subject lines or filename attachments.



Categories

Categories of targeted themes, brands and topics.





Cloud and Server Vulnerabilities



Threat Modelling

How can your application be misused?



Peer Review

More eyeballs can catch more bugs.



13

Security Awareness Trainings

Phishing, MFA Fatigue Attacks and general cybersecurity hygiene.



Shift Left

Developers are responsible for their code security.



Bug Bounty Programs

Incentivize security researchers to report vulnerabilities of your software.



Multi-Layered Protection Capabilities

If one capability fails, another layer can pick up the slack.



SAST, DAST & SCA

Perform due diligence on the safeness of your code before it goes to production.



EASM

External Attack Surface Management (EASM) helps to understand and monitor the changes in your external attack surface and minimize them where you can.

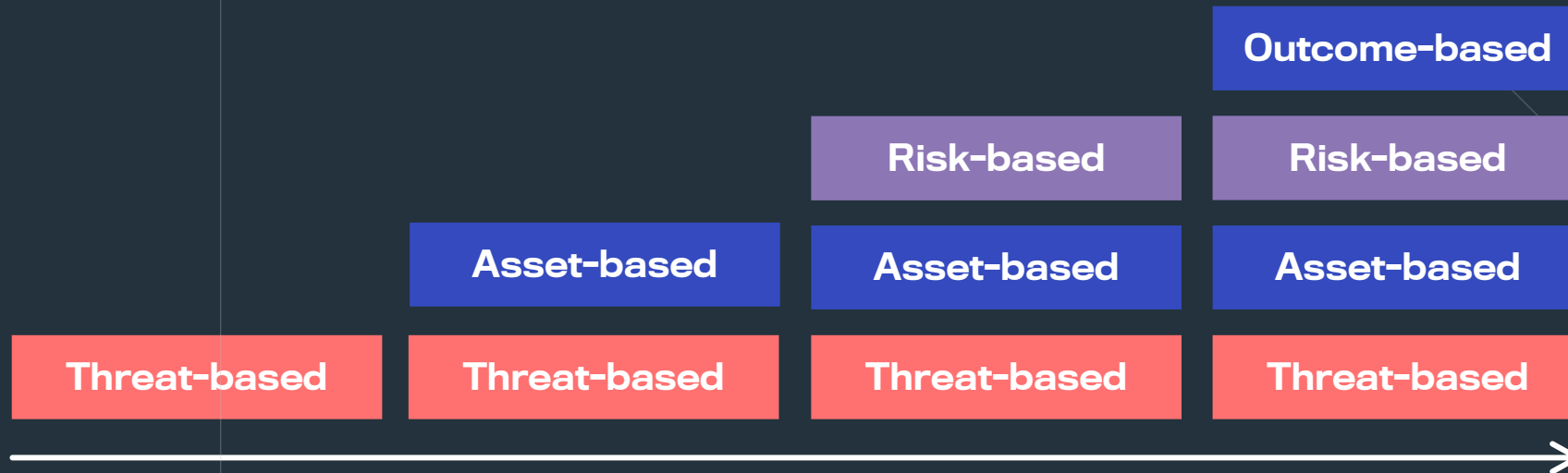


MFA

Raise the bar for credential compromise

Outcome-based security:

A paradigm shift towards a “Yes, and...” mentality



Outcome-based security:

A paradigm shift towards a “Yes, and...” mentality

Outcome-based

Maximized operational efficiency

Increased business agility

End customer trust

Risk-based

Cloud autoscaling causes high opex

Customer data in insecure SaaS provider

Introduction of malware to customer's estate

Asset-based

Webserver in Azure

Customer PII in SaaS provider's estate

Applications

Threat-based

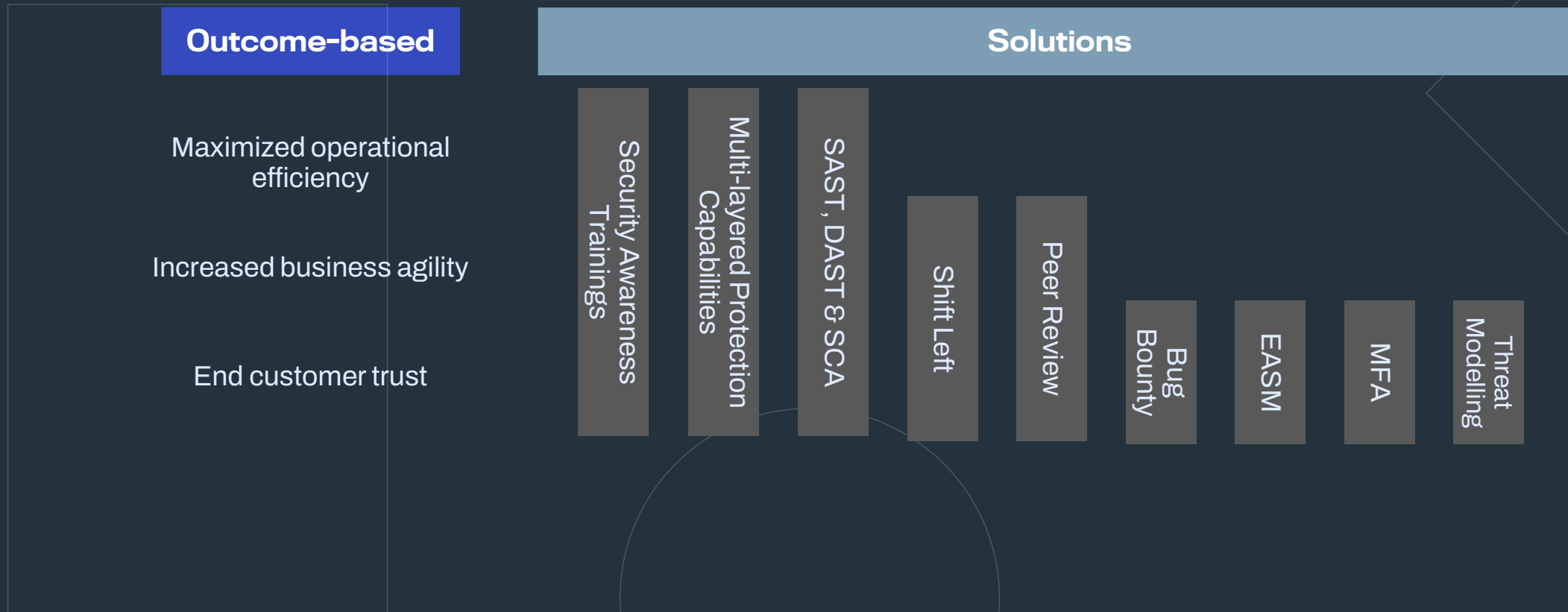
Cryptominers

Exposure via data breach

Supply Chain Attacks

Outcome-based security:

A paradigm shift towards a “Yes, and...” mentality



Cyber security as an
enabler of business
outcomes.



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