

Stefan Umit Uygur - 4Securitas



Future is Cyber..

Where is the global cybersecurity industry going and why is it failing to protect against cyberattacks?

Stefan Umit Uygur
4Securitas

“

The Country that is not Ready for Cyber, is a Country without a Future!

”

Palo Alto- 2010





Future is Cyber..

**The Country that is not Ready for
Cyber is a Country without a Future!**

Aug 2010 – Palo Alto

Stefan Uygur



Security Standards & Frameworks

3000 Global Vendors but still...



From sources across the web

 National Institute of Stan... 	 ISO/IEC 27001 	 PCI DSS 
 COBIT 	 NIST Special Publication ... 	 International Organizatio... 
 HITRUST 	 North American Electric ... 	 Center for Internet Secur... 
 The CIS Critical Security ... 	 ISO/IEC 27002 	 Cyber Essentials 
 System and Organization... 	 ISO/IEC 27000-series 	 Committee of Sponsorin... 
 ISO/IEC 27018 	 NIST 	 GDPR 
 Health Insurance Portabil... 	 Federal Information Secu... 	 NIST SP 800-171 
 ISO 	 ISO 27001 and ISO 27002 	 Sarbanes-Oxley Act 



Cyber Attacks are the new Pandemic



\$8 Trillion
\$10.5 Trillion
\$1.7 Trillion
\$265 Billion
\$14.8 Billion
\$30 Billion

Cost of Cybercrime by 2023
Global Crime Damage by 2025
Cyber Expenditure by 2025
Ransomware Cost by 2031
Cyberinsurance Market by 2028
Cryptocrime by 2025

ALL FIGURES ARE
PREDICTED BY
2023-2031

2023 Cyber Expenditure

\$162-\$188 Billion

[Source: Cybersecurity ventures - Gartner - Statista](#)

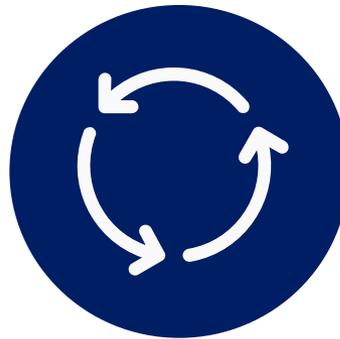


Current Industry Response?



243 Days

Average time to identify and contain a breach



327 Days

Lifetime of a malicious attack from breach to containment



€4M

Average cost of a data breach

[Source: IBM - Ponemon Institute](#)

Cyber Attack Trends - Historical



Figure 2: Percentage of organizations compromised by at least one successful attack.

Source: [Comparitech](#)

New Threats - The War - A Use Case - Things are getting worse...



- Started with one youngster
- Main group counting members now ~91k
- Total members (includes affiliates)~450k
- Sudan joined with members ~27k

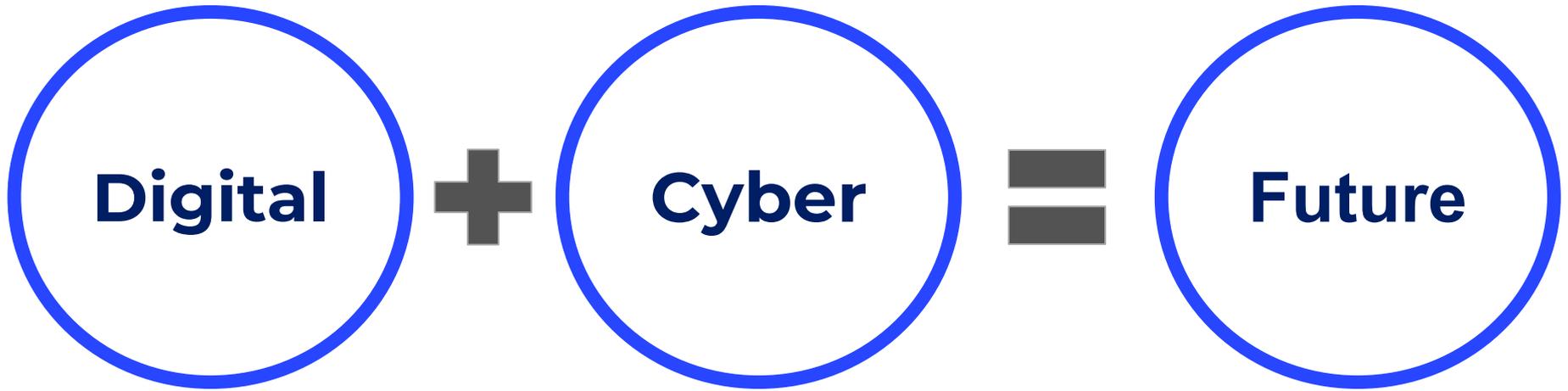


Countries with a Bright Future



Source: [CyberDB](#)

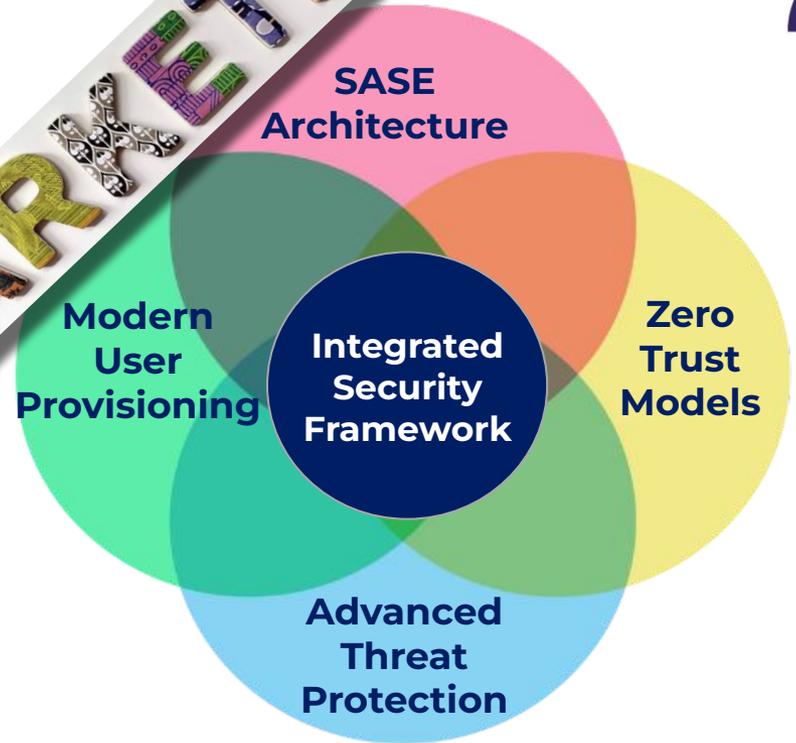
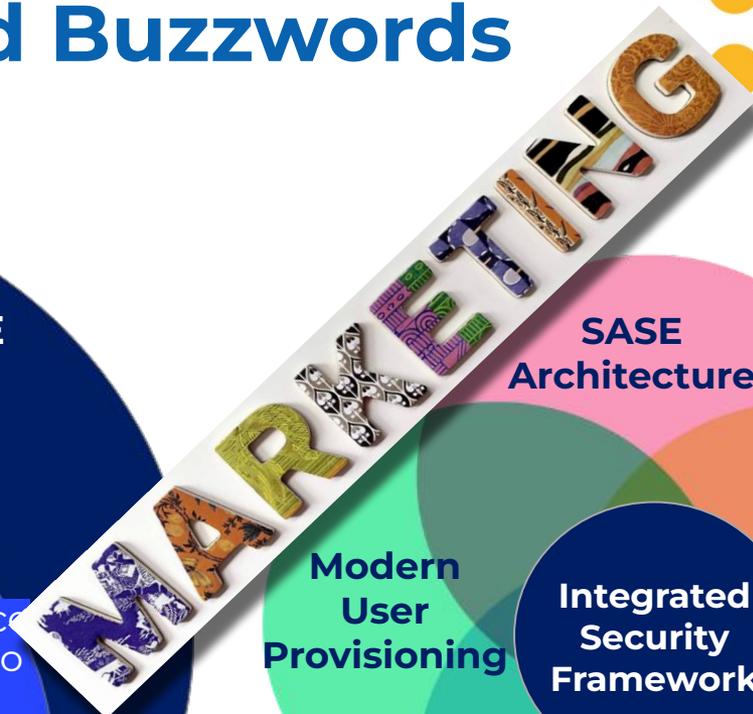
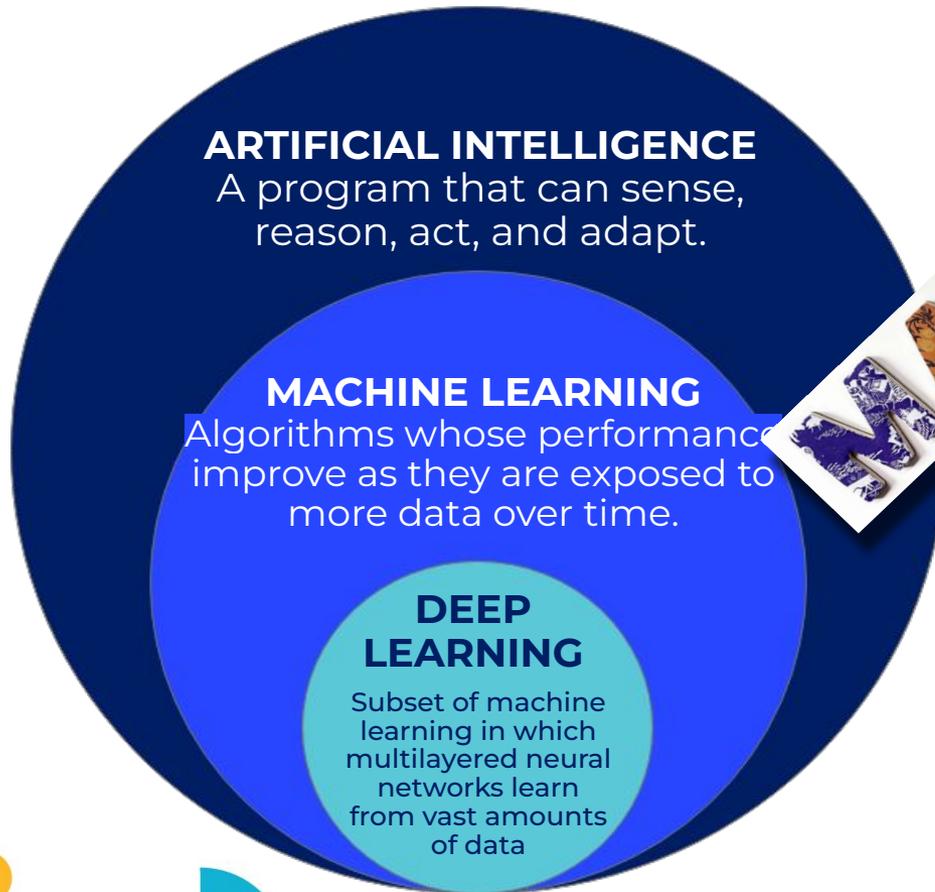
Sovereignty in Cyber is a Must



Cybersecurity is the future



Industry Hype and Buzzwords



So what is wrong with the industry?



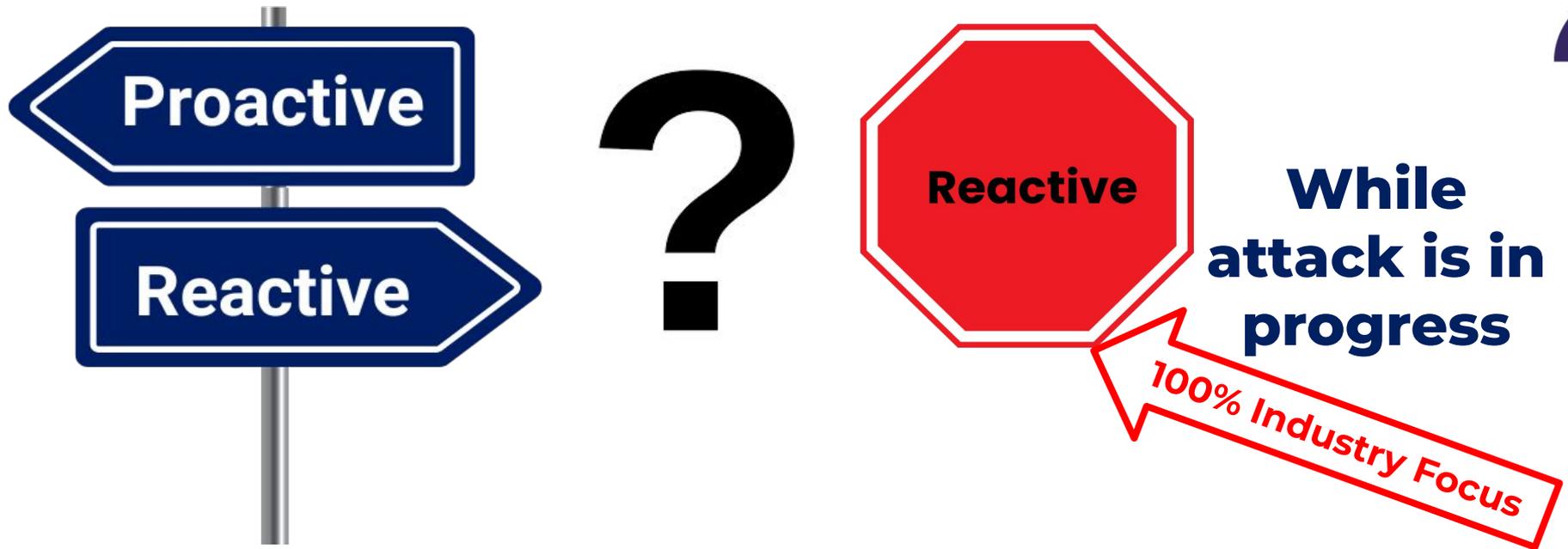
BANK ROBBERY



CYBERSECURITY ATTACK



The Reality - The Current Model



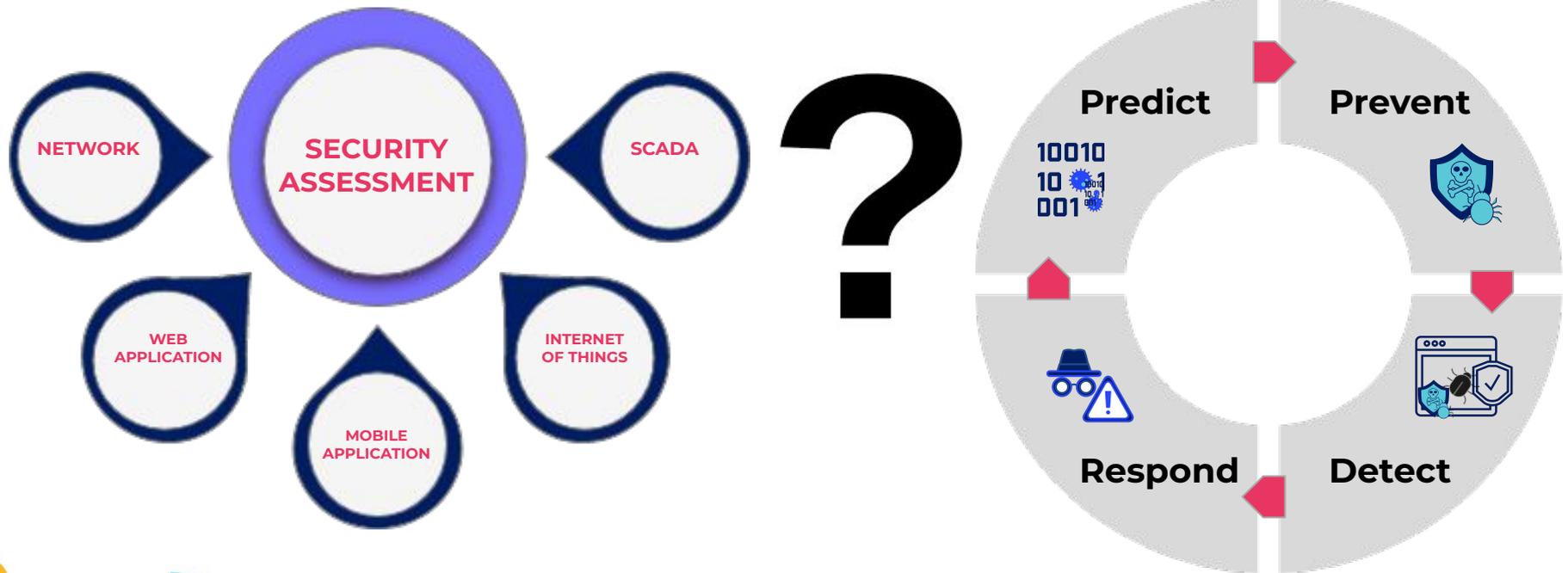
No matter how good the product is...



Confusion - What is proactive?

OFFENSIVE SECURITY OVERVIEW

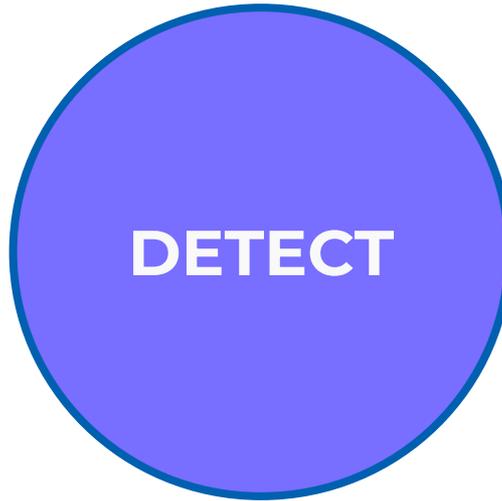
Be Proactive against Cyber Security Threats



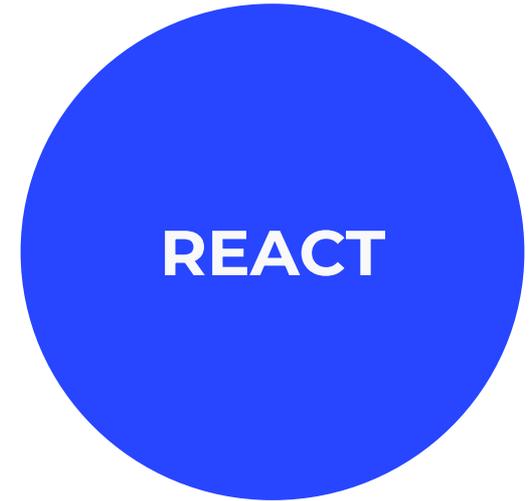
Cyber defense in 3 simple steps



Unpopular



Focus/Hype



Getting there



The Ideal Cybersecurity Defense Model



Predictive

Threat Hunting Intelligence

Up to 90%

Protect

Source of attacks can be predicted. 90% of attacks are originating from:

- Anonymous networks
- Bad reputation IP addresses
- Know C&C bad URLs
- Known malware signatures
- more known sources

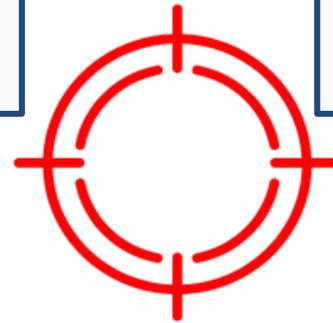
Proactive

While Planning the attack

Up to 98%

Protect

The only way to break in:
- Information gathering
- Reconnaissance

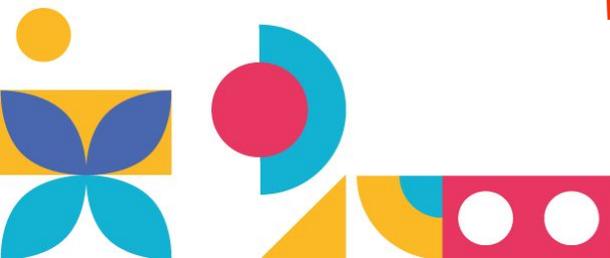


Reactive

While attack is in progress

2% Where the industry focus is!!

Detect





Thank You!

Stefan Uygur

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PREVENTING. DEFENDING. REACTING.



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