











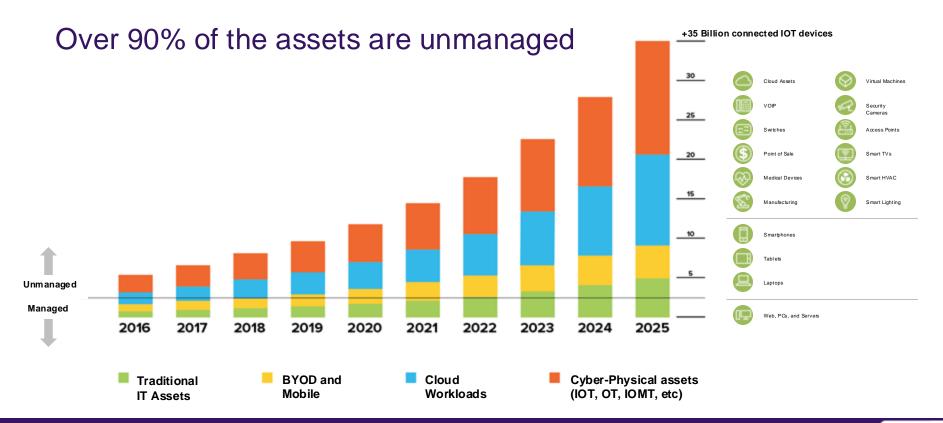
## Out of Sight, Out of Control: Asset Intelligence

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#### **Unprecedented Growth in Assets**





**Old School IT Asset Tracking** 

In the past, a highly manual process

- Spreadsheets and stickers were primary tools
- Keeping this information up to date took a lot of human effort
- Hardware and software were tracked separately





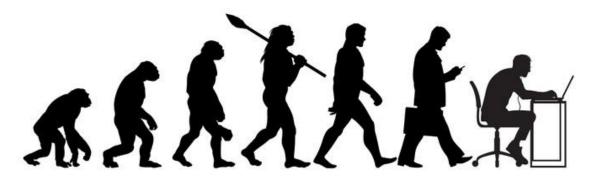
#### Why We Bothered



- Business managers needed to know where assets were
- Cost tracking, depreciation, finding unauthorized devices ("shadow IT") were all important
- Software licensing drove these manual efforts to new heights

#### **How It Evolved**

- Software license tracking became its own industry
- Configuration Management Databases ("CMDBs") were populated via multiple manual processes, often by the helpdesk team



## Asset Visibility and Control is an **Unsolved** Challenge.

by my organization. I've got thousands of assets, on-prem and in the cloud, but my processes are still manual, my data is old, and my IT inventory is never right.

CIO

Fortune 500 Tech Company

90%

of IT professionals say rapidlychanging environments make ITAM more difficult.

Source: Deloitte Global IT AM Survey, 2021

### Visibility and Control Challenges



Accurate and Complete Asset Inventory



Promote IT
Hygiene
and Remove
Technical Debt



Control and Reduce the Asset Attack Surface



Manage Asset
Vulnerabilities
and Prioritize by
Risk



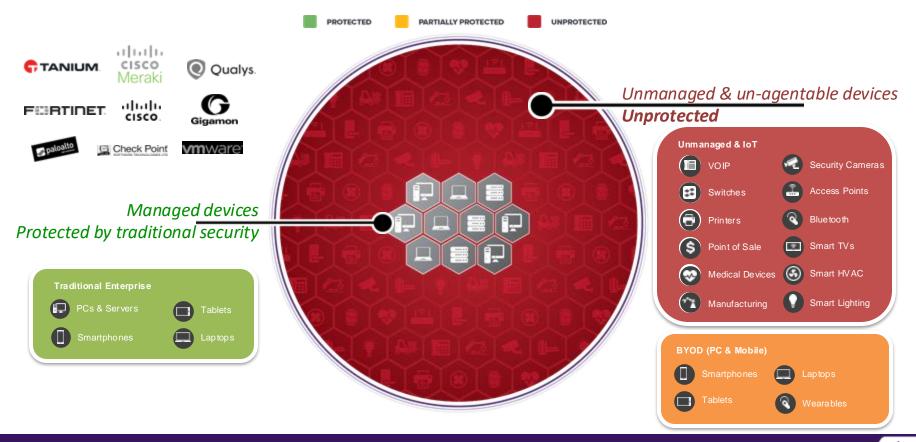
Detect & Mitigate
Assets Impacted
by Threats



Compliance
w/ Internal Policies
and Industry
Standards



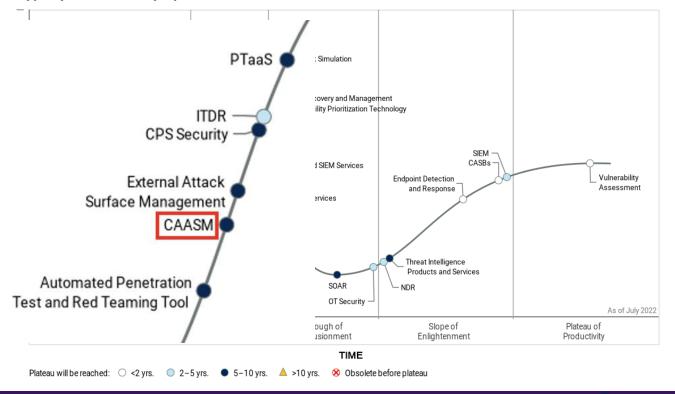
#### Risk Exposure Without Asset Intelligence





#### **Gartner Hype Cycle**

Hype Cycle for Security Operations, 2022



#### **CAASM**

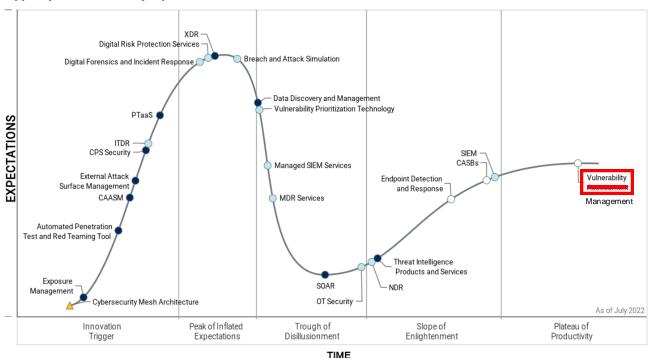
- Cyber Asset Attack Surface Management
- Gartner defines CAASM as "...an emerging technology aimed at empowering security teams to solve persistent cybersecurity asset visibility and vulnerability challenges..."
- Gartner's definition includes remediation and alludes to automation
- Gartner further defines CAASM as working solely through API integrations with existing tools

Armis

#### **Back To The Gartner Hype Cycle**

Plateau will be reached: ○ <2 yrs. ○ 2-5 yrs. ● 5-10 yrs. △ >10 yrs. ⊗ Obsolete before plateau

#### Hype Cycle for Security Operations, 2022



1CT.

### **Vulnerability Management Challenges**



Sheer volume of vulnerabilities with no business risk prioritization



Incomplete and unreliable vulnerabilities data

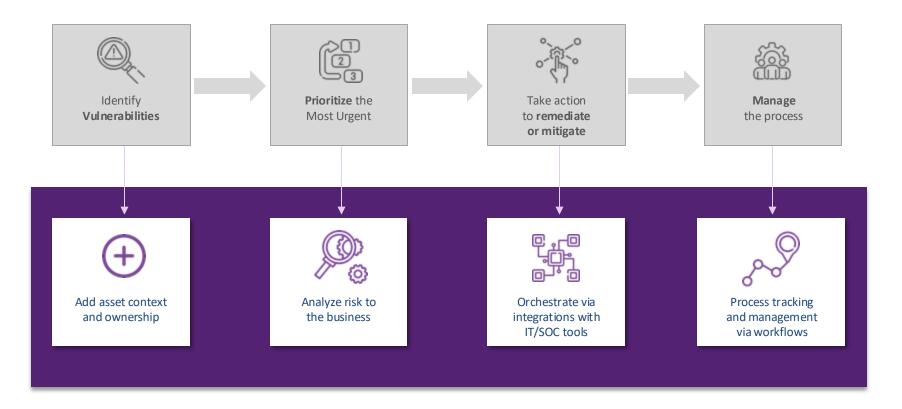


Lack of process management and automated workflows



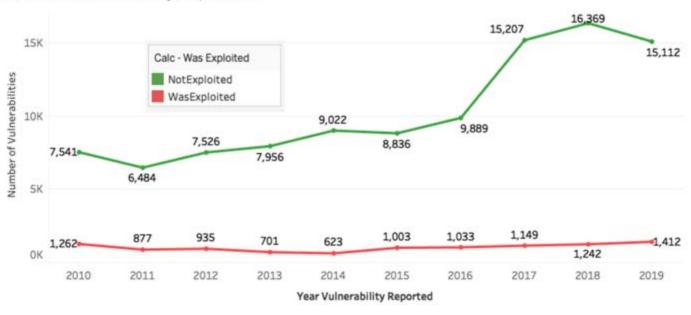
Missing vulnerabilities from unscannable assets

### **Vulnerability Management Requirements**



#### Not all CVEs are Attractive for Attackers

#### Was The Vulnerability Exploited

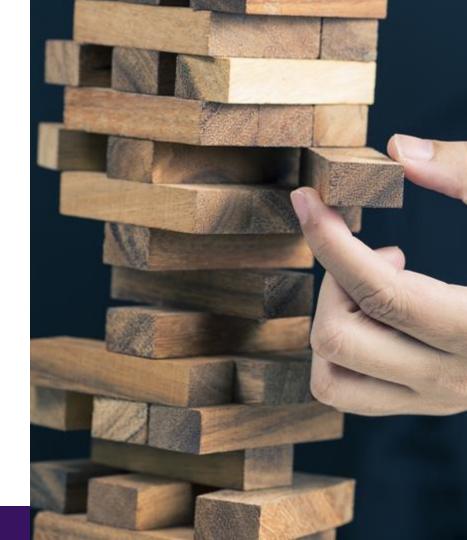


Lower chance that attackers will seek those CVEs

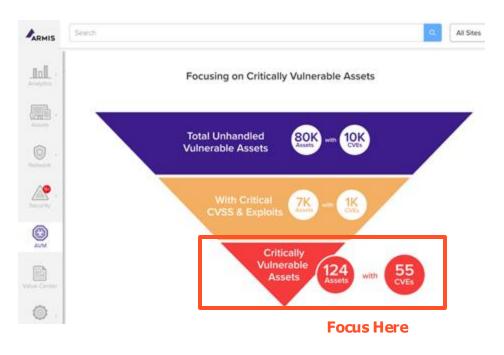
Higher chance that attackers will seek those CVEs

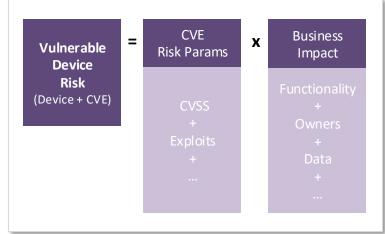
## The Risk to the Business Depends on the Asset that Holds the Vulnerability

- What is the asset functionality?
- Who are the asset owners?
- Does it contain sensitive data?
- What is the cost of the asset?



#### **Prioritize Critically Vulnerable Assets**





#### **Asset Intelligence**

Visibility

Insight

Action



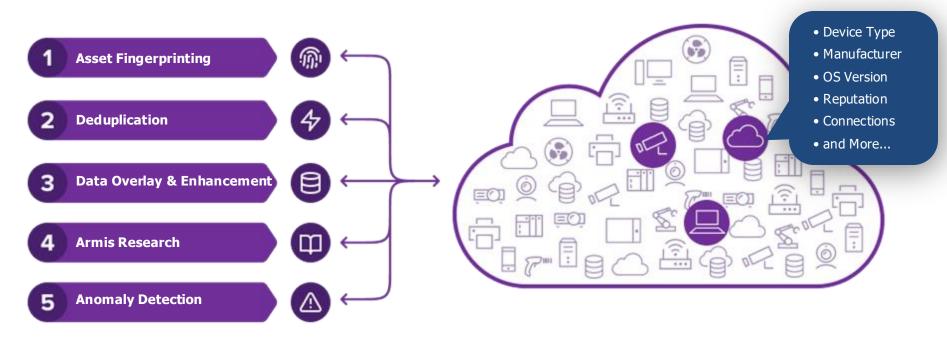
### What About Other Technologies?

	Asset Intelligence	NAC and Other Network Security Tools	UEBA
Device visibility and classification	Wired, WiFi, Bluetooth, BLE, Zigbee, Wimax, others	Wired and WiFi only Very limited accuracy	None
Anomalous behavior and threat detection	Detects anomalies based on learned behavior and peer groups	Limited or no understanding of behavior	Misses IoT devices that don't generate traditional logs
	Generates risk score based on many different characteristics		Unaware of asset peer group behavior. No knowledge base
Topology awareness	Topology-aware, detects bridges over any protocol, catches device-to-device connections across boundaries	Enforces only traditional network segmentation	Understands user roles, but not network topology
Content awareness	Content and encryption aware	None	None
Traffic monitoring	Troubleshoot wired and wireless network problems  Alert on anomalous connections	No asset knowledgebase, only very limited anomaly detection	None

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#### **Armis Asset Intelligence**

**Almost 5 Billion assets** tracked and monitored **Tens of millions** of unique device profiles





# What would you see if you had Asset Intelligence?

## THANK YOU



