



Zero Tolerance Architecture

The Power of Prevention

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YOU DESERVE THE
BEST SECURITY

The First Cyber Attack...

- Launched in 1834 by two bankers, François and Joseph Blanc
- Manipulated France telegraph data
- Equivalent of an Internet stock fraud



061. - PARIS - Vieux-Montmartre
Tour du Télégraphe ou tour de Chappe (Chevet de l'Église St-Pierre)
En 1794, on installa sur la tour de l'église St-Pierre un poste de télégraphe optique
qui subsista, jusqu'en 1866 J. H

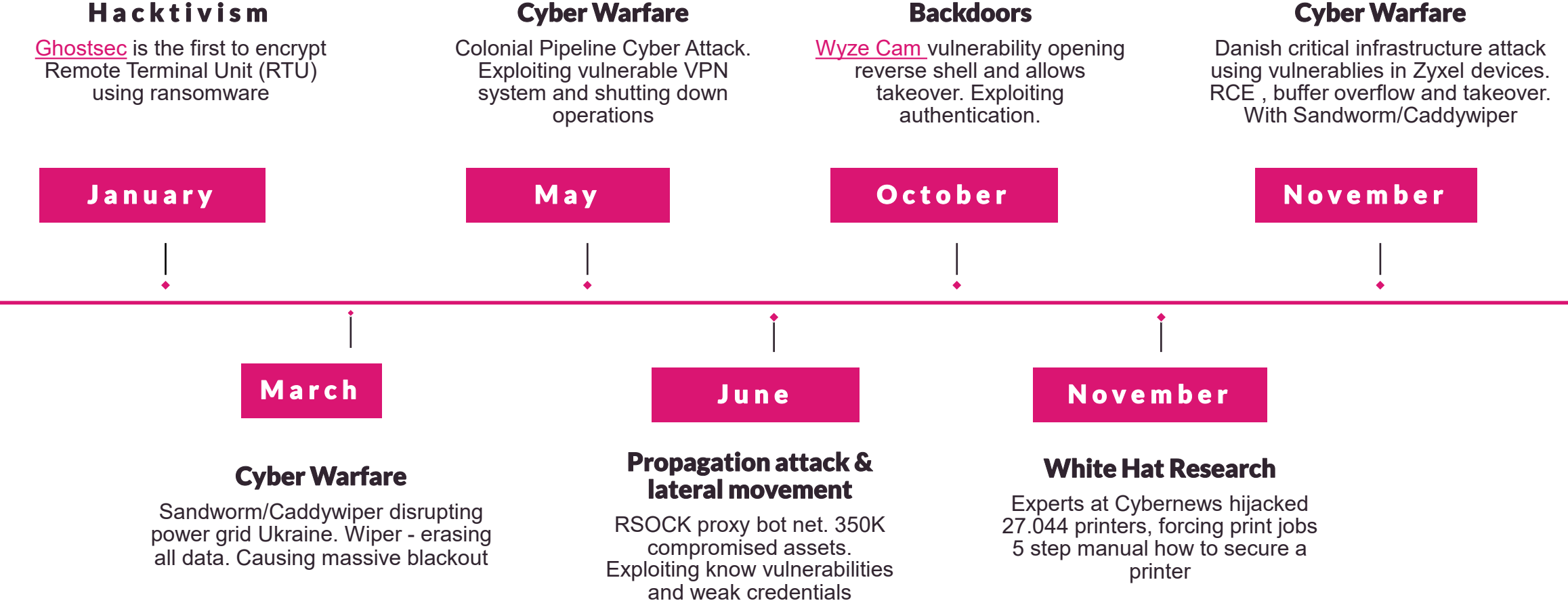
Why Zero Tolerance?

- ✓ **Protecting**
Preventative security controls
- ✓ **Ensuring**
Guaranteed safe and safety
- ✓ **Preserving**
Maintain working as intended



Threat Landscape 2023

IoT and OT



Resilience Security Strategies

Safeguarding IoT ecosystems

- ✓ Protect against cyber attacks
- ✓ Data integrity and privacy
- ✓ Trust and user confidence



Mandating Zero Tolerance

Building Trust in IoT

- ✓ **Ease of operation**
Improved profitability
- ✓ **Regulations**
Improved scalability
- ✓ **Business continuity**
Improved reliability



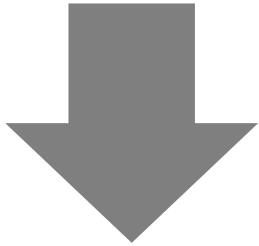
IoT device manufacturing

Device and market challenges

IoT asset vendor challenges



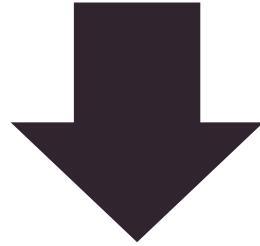
Factory



- Development
- Programming and Testing
- Source Repos
- Build & Release Management



Device Security



- Secure Debug Lock
- Root of Trust
- Secure Key Storage
- Secure Identity



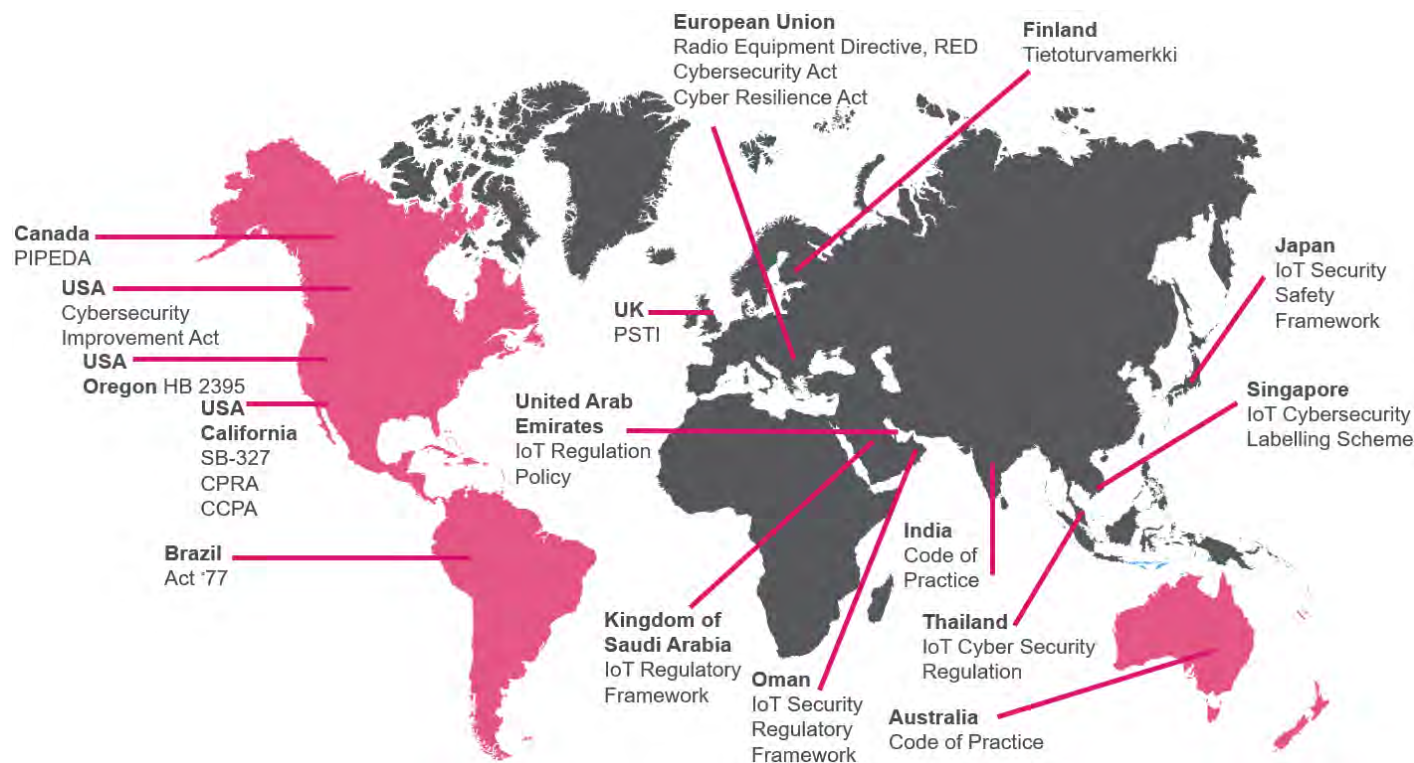
LAWS AND REGULATIONS

Global Regulations

Safeguarding the IoT revolution

Legislations

- Cyber Security Act (CSA)
- Cyber Resilience Act (CRA)
- Radio Equipment Directive (RED)
- Digital Markets Act (DMA)
- Digital Operational Resilience Act (DORA)
- ETSI EN 303 645 security standard for consumer IoT devices
- Network and Information Security Directive (NIS2)
- US Cyber Trust Mark
- Product Security and Telecommunications Infrastructure Regime (PSTI)



Regulations and standards

Key Elements

- **Secure Access and Access Control**
- **Authentication and Authorization**
- **Data Protection**



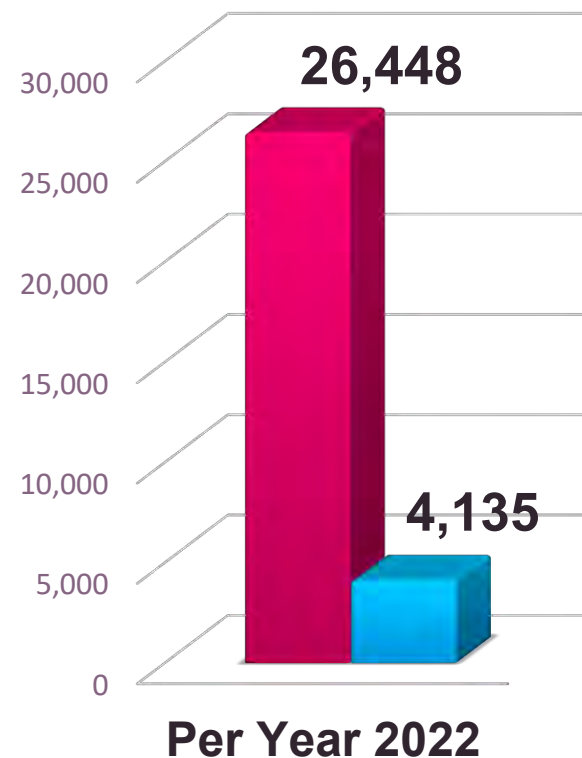
Uncovering Astounding Facts

Year 2022

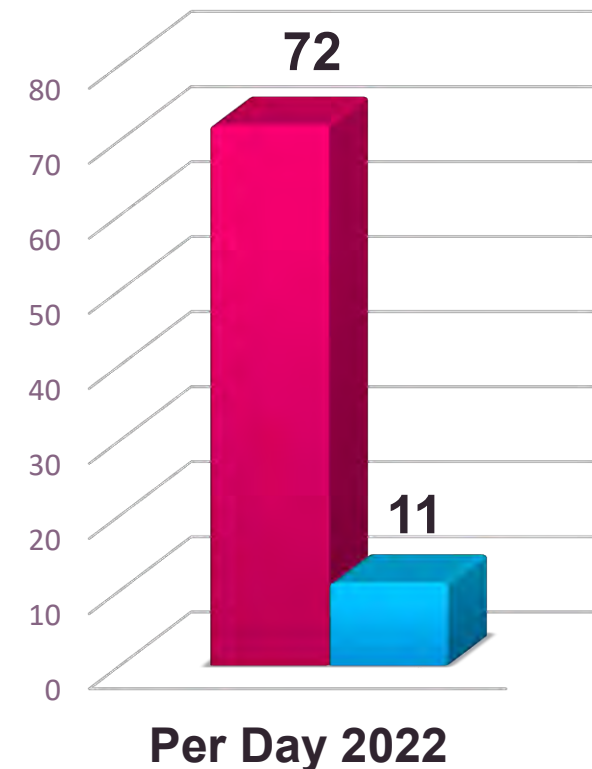
NIST scores security flaws
assigns severity, risk and
impact

A critical vulnerability
ranges between 9 and 10

Every day
On average organizations
face > 11 critical
vulnerabilities



■ Total number of vulnerabilities



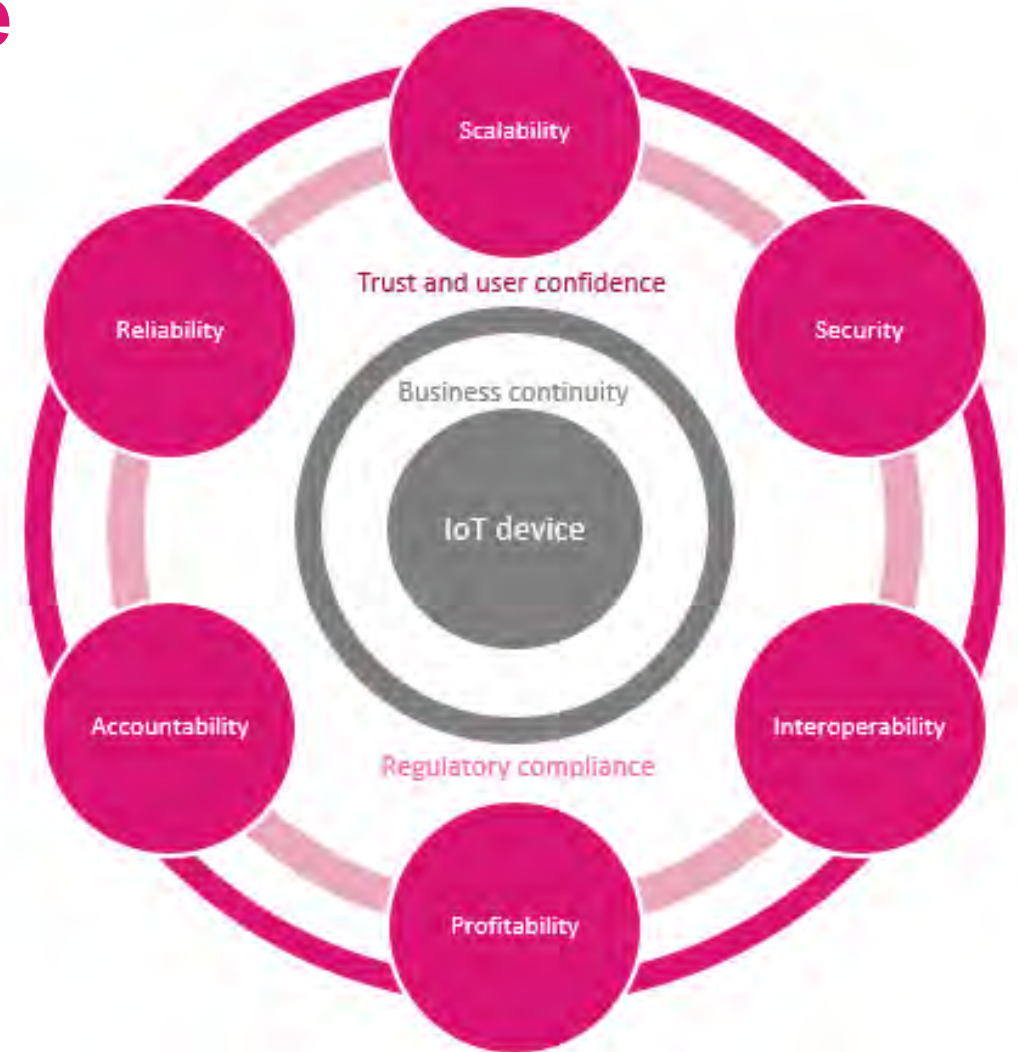
■ Total number of vulnerabilities

Source: <https://www.thestack.technology/analysis-of-cves-in-2022-software-vulnerabilities-cwes-most-dangerous/>

Zero Tolerance Architecture

Scalable | Profitable | Reliable

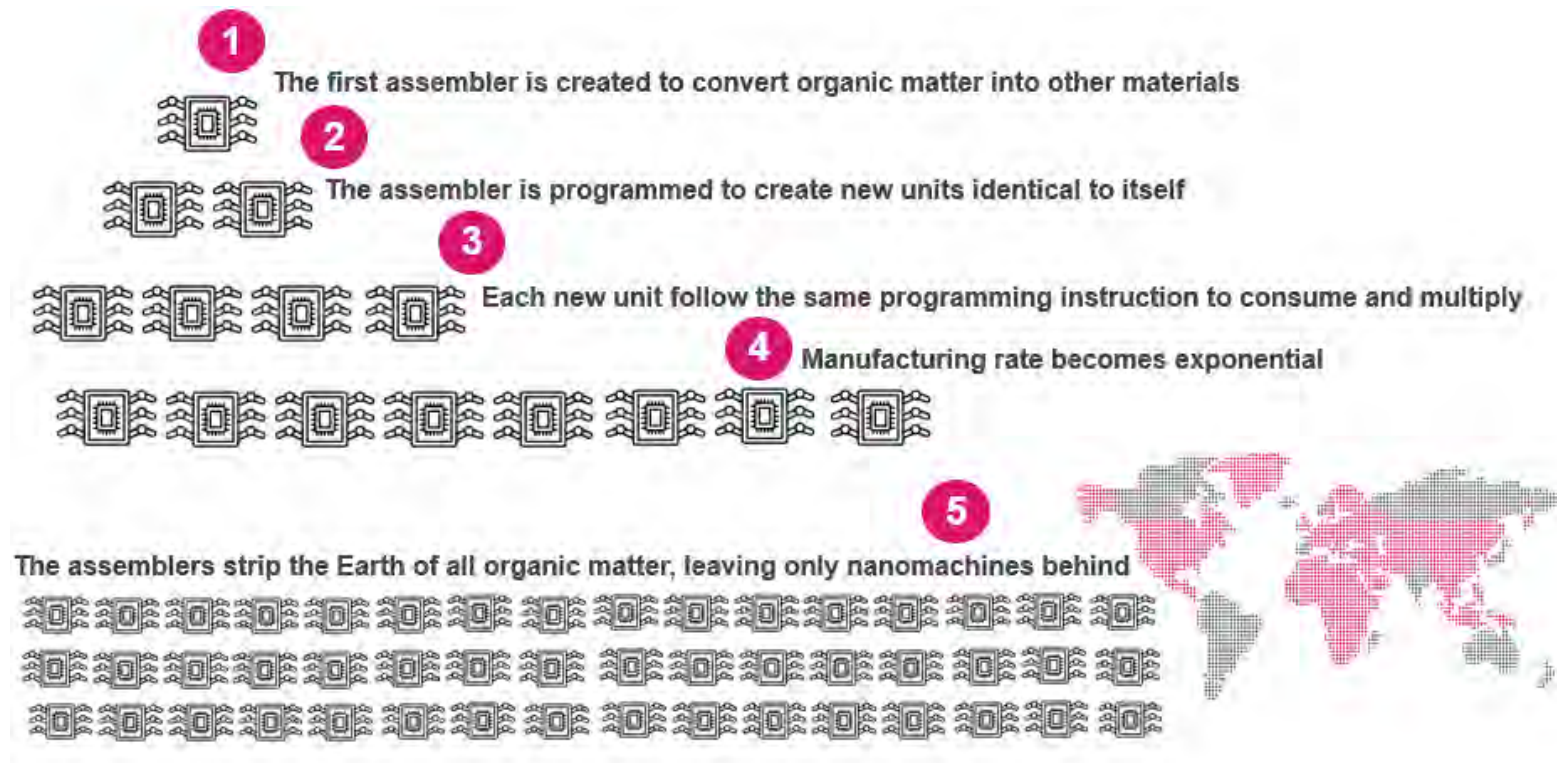
**Save a toaster,
and possibly the world!**



The future of IoT

From algorithms, machine learning to artificial intelligence

1980's - Eric Drexler's "Gray Goo" - book Engines of Creation



https://en.wikipedia.org/wiki/Gray_goo



Robert Mueller, former Director of the FBI

There are only two types of companies:

Those that have been hacked and those that will be hacked

Check Point is adding third one:

Those that have been hacked but still don't know



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**Appreciation bytes -
Thanks for geeking out with us!**

YOU DESERVE THE BEST SECURITY