Security in a Transforming Digital World

Scott Klososky

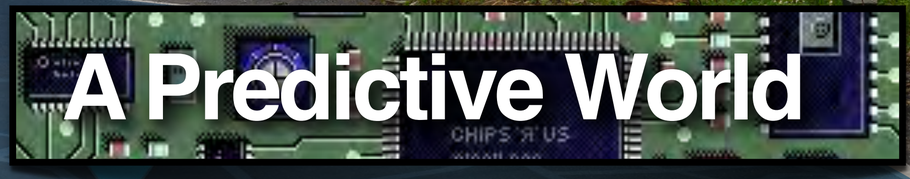
TRICORPS TECHNOLOGIES

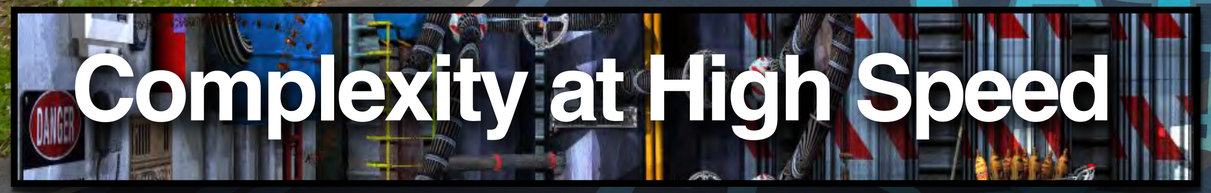
Quotable

> “The frequency of the attacks and the potential attack scenarios are becoming so dangerous that we can’t wrap our brains around it.”
>
> — **Marina Krotofil, utility-control systems expert**

A VUCA WORLD

ASIS Change Drivers:
Mapping the Future





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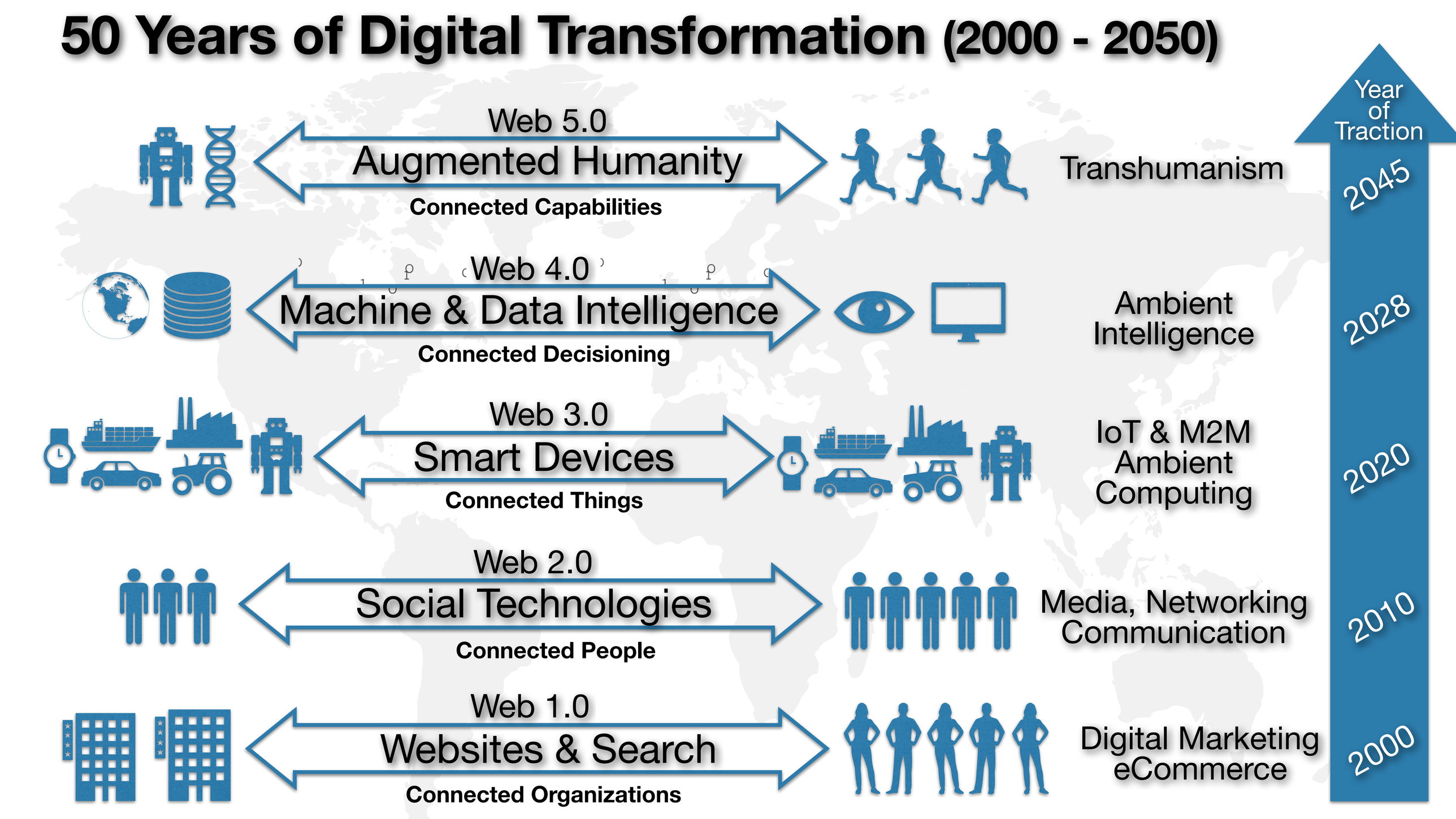
50 Years of Digital Transformation (2000 - 2050)



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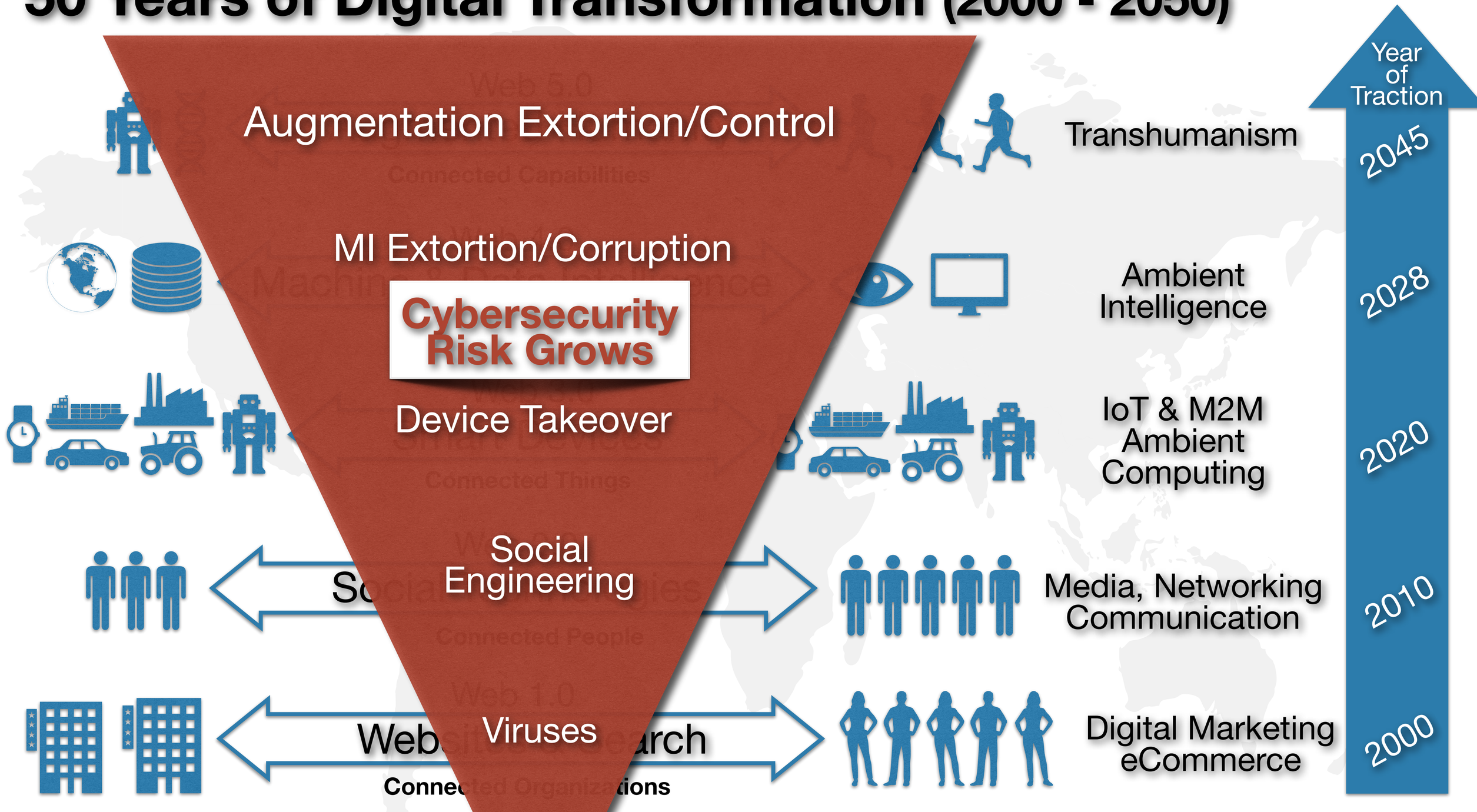

HUMALOGY® SCALE

TRICORPS TECHNOLOGIES

TOLL BOOTHS

H5 H4 H3 H2 H1 0 T1 T2 T3 T4 T5

HUMAN INVOLVMENT

TECHNOLOGY INVOLVMENT

H5	H2	0	T2	T5

HUMALOGY® SCALE

TRICORPS TECHNOLOGIES

TOLL BOOTHS

H5 H4 H3 H2 H1 0 T1 T2 T3 T4 T5

HUMAN INVOLVMENT

TECHNOLOGY INVOLVMENT

TODAY

HUMALOGY® SCALE

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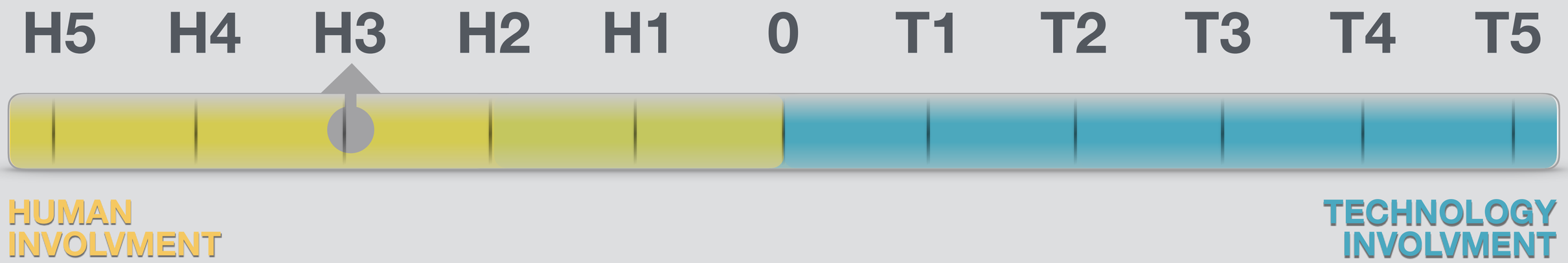
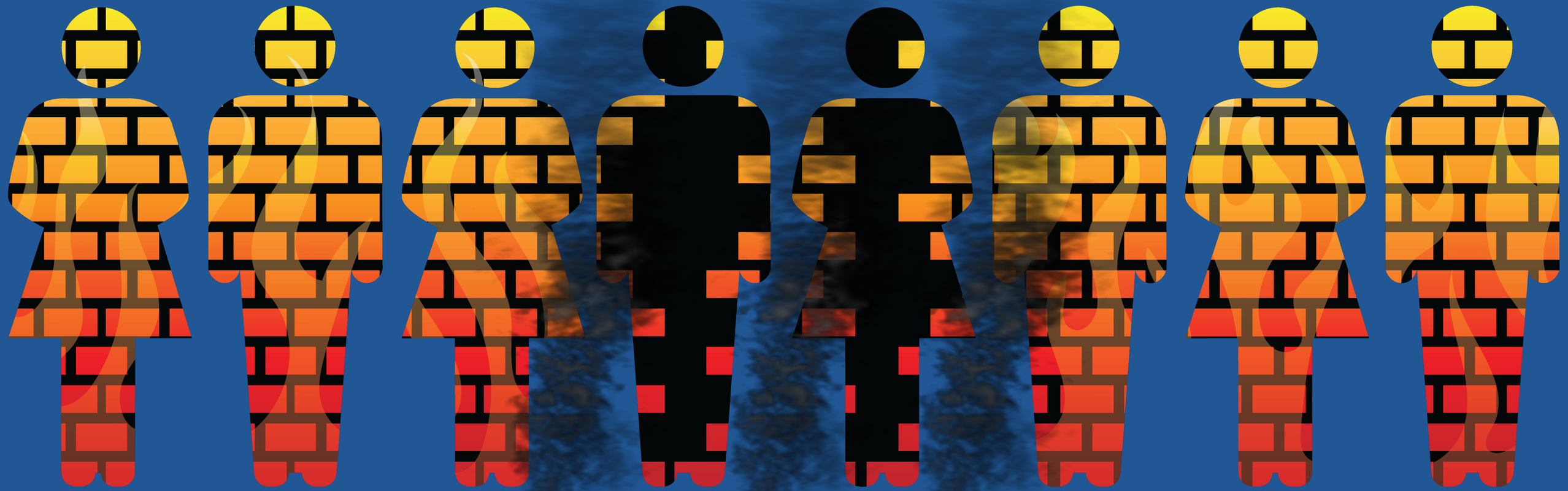


So where is security on this scale?

95%

Of all successful cyber attacks are caused by human error

Source: IBM Cyber Security Intelligence Index



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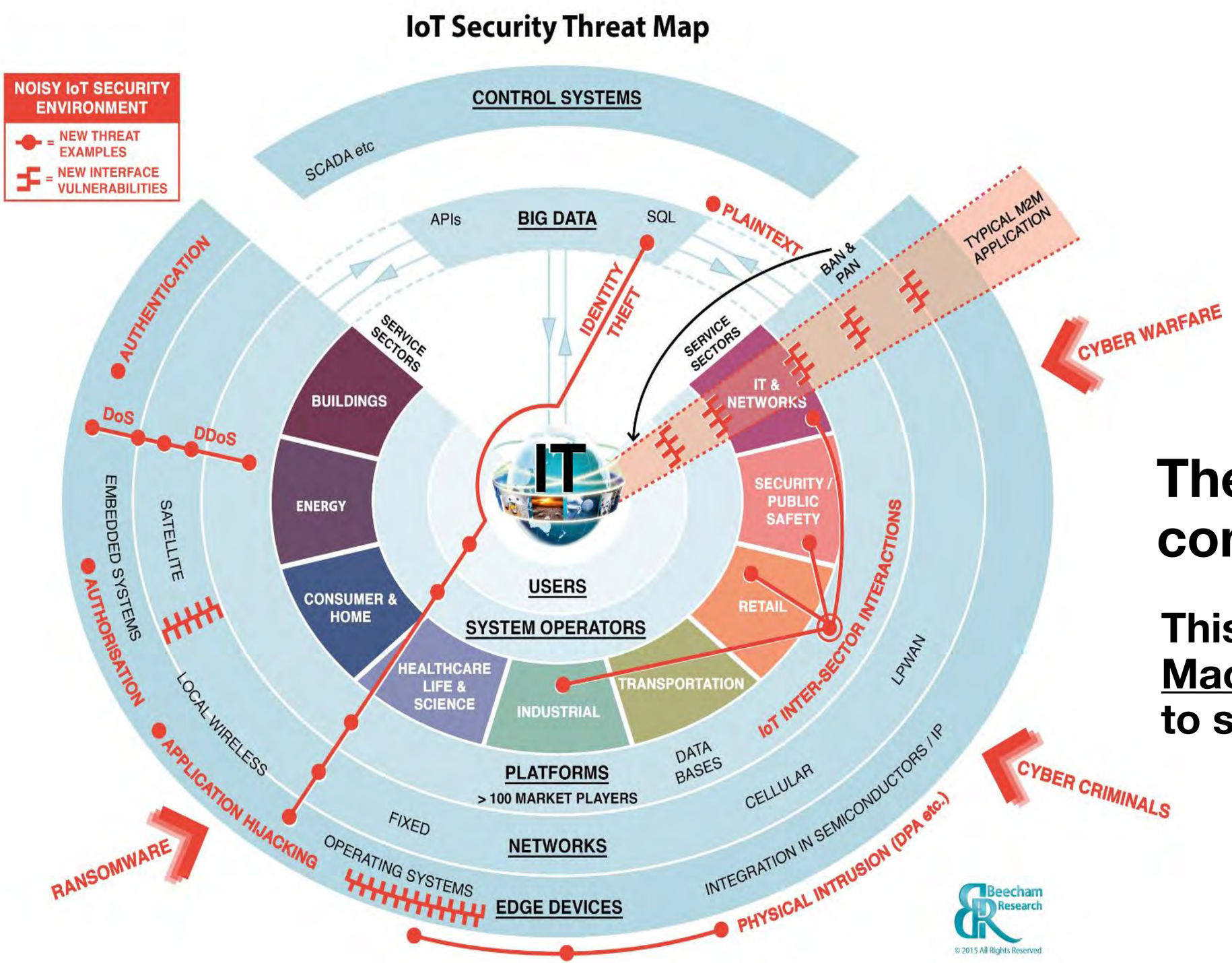
Web 3.0 Future

Connected Devices

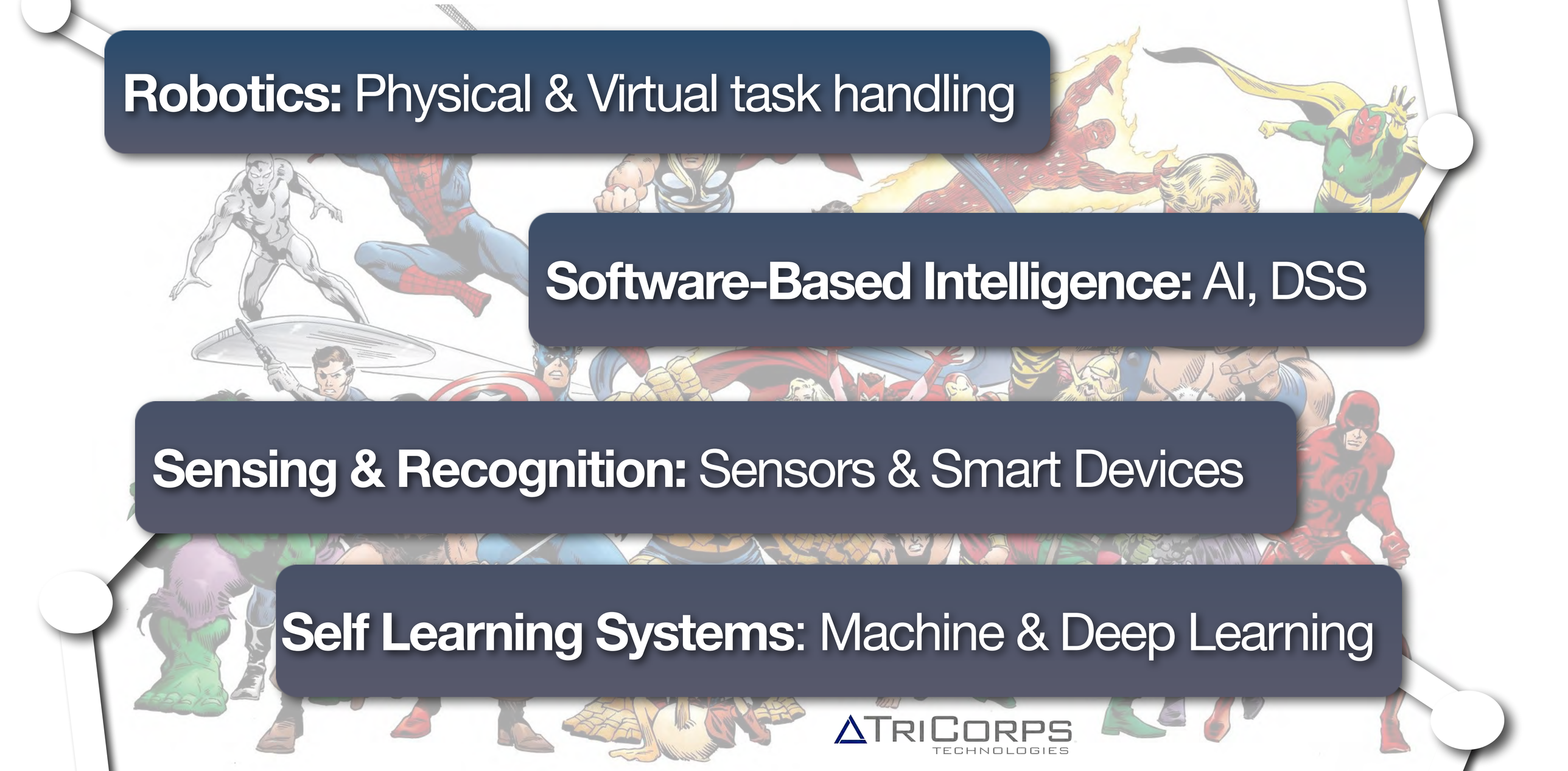
Edge security is getting much more difficult with IoT devices, SCADA, cameras, controls, and smart equipment



The Attack Surface continues to grow

This will force us to use <u>Machine Intelligence</u> to secure the perimeter

Defining Superpowers: A Massive Fork in the Road for Sec rity



Robotics: Physical & Virtual task handling

Software-Based Intelligence: AI, DSS

Sensing & Recognition: Sensors & Smart Devices

Self Learning Systems: Machine & Deep Learning

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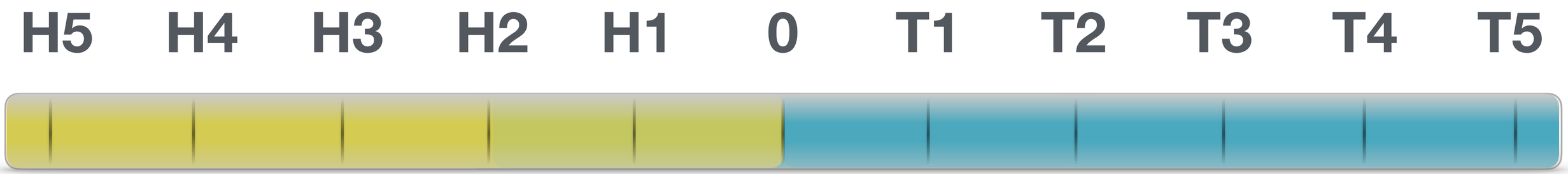
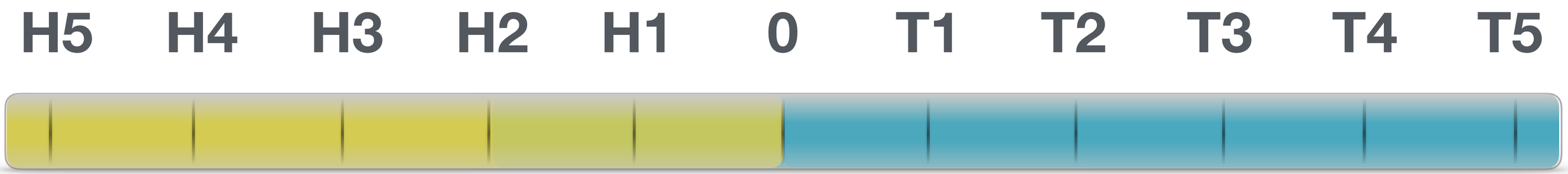
Defining Superpowers: A Massive Fork in the Road for Security



Adding Superpowers to an organization can shift the Humalogical balance to the most efficient and secure place

TRICORPS TECHNOLOGIES

Defining Superpowers: A Massive Fork in the Road for Security



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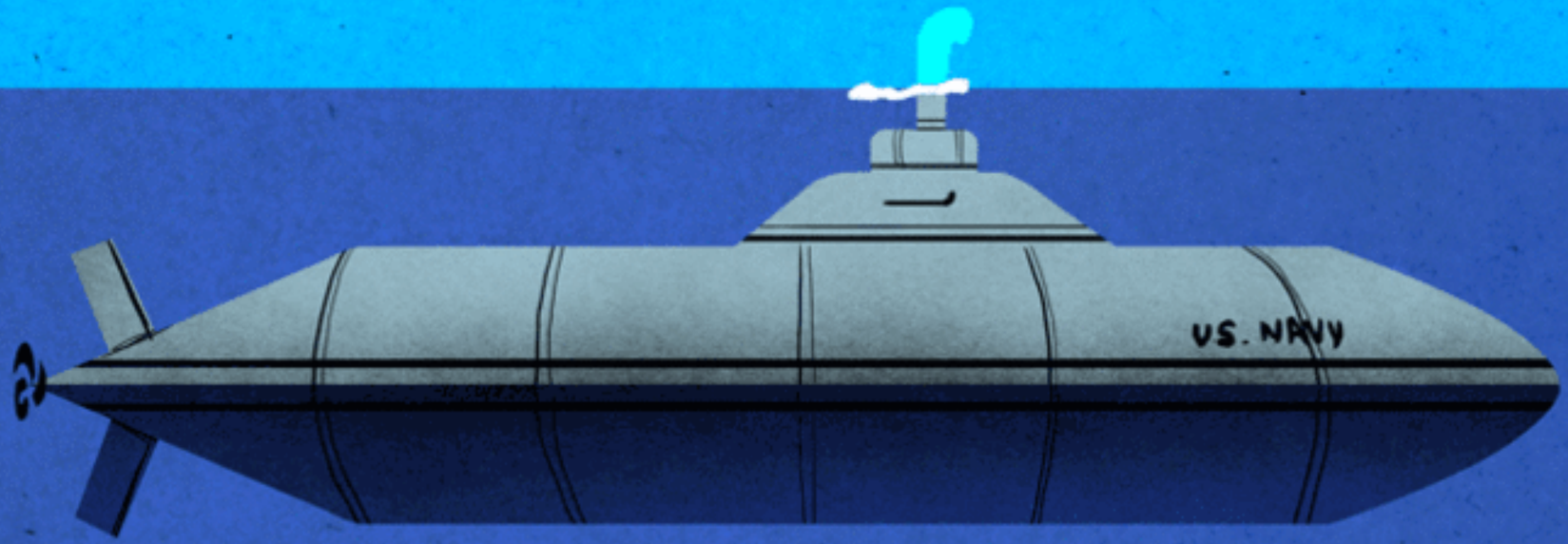
Machine Intelligence



David Ferrucci, the developer of IBM Watson, was asked if the system can think…

He answered, "Watson can think like a submarine can swim"

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Machine Intelligence Ecosystem

Robotics (Fixed & Ambulatory)

RPA (Robotic Process Automation)

Artificial Intelligence

Voice (NLP), **Vision & Text Recognition**

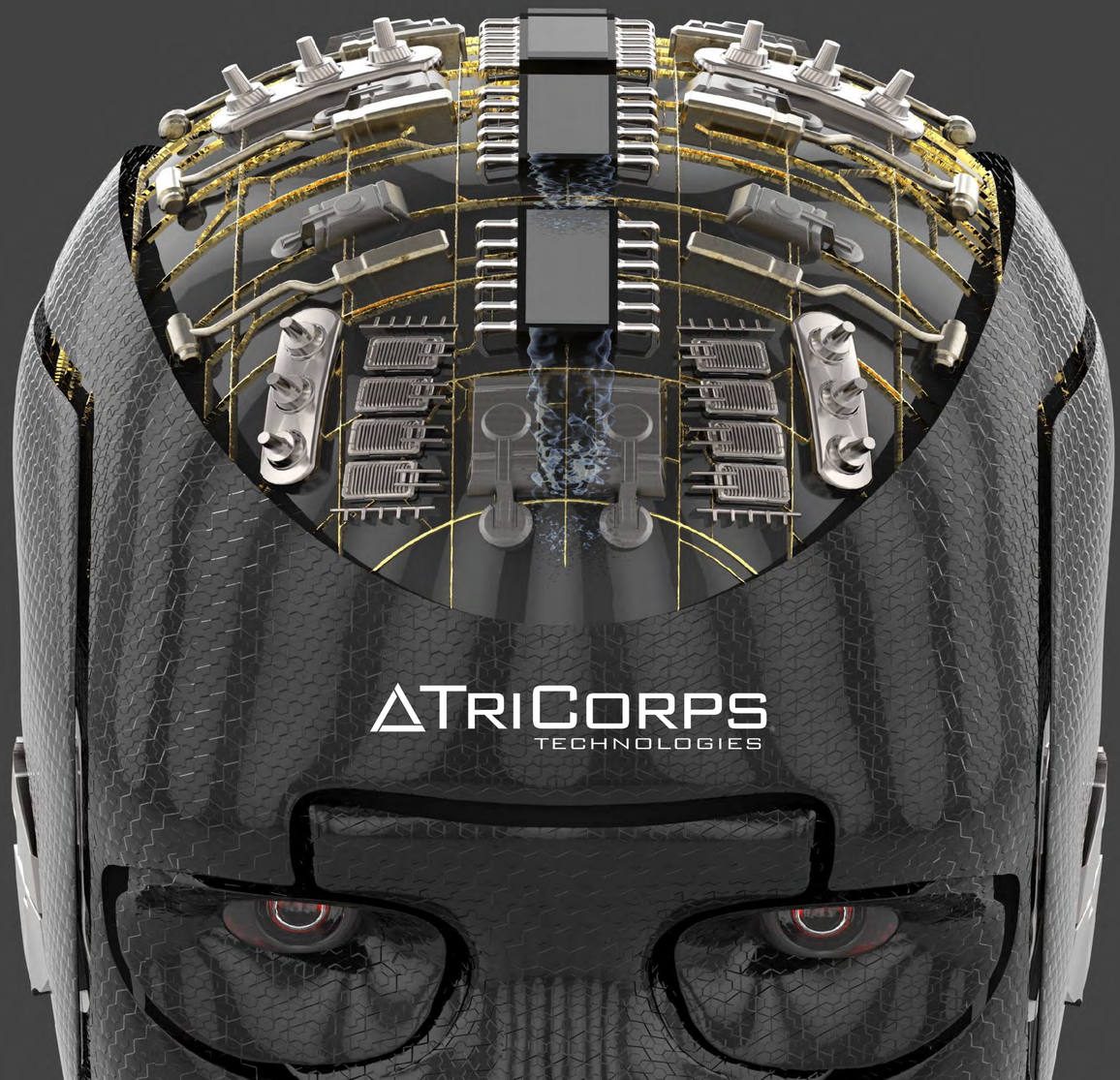
Machine Learning

Deep Learning

Recommendation Engines (DSS)

Realtime Predictive Analytics

Cognitive Computing



Machine Intelligence Integration

Robotics + AI + NLP = Smart Machine Sentries

The combination of intelligent systems will create machines that can perform at levels far above humans

Machine Intelligence Integration

Robotics + AI + NLP = Smart Machine Sentries

AI + Deep Learning + Predictive Analytics
= Smart systems that can predict attacks

AI + NLP + ML = Chatbots & Voice
Assistants that oversee security

Vision Analytics + AI + ML = Intelligent
surveillance & identification

Quote of the Day

"Educating doctors is going to take too long."

—Rogier Janssens, Beijing-based general manager of a biopharma company, on why China needs to embrace AI, robots, and smartphones in medicine. (Reuters)

We Desperately Need Machine Intelligence in Order to Advance

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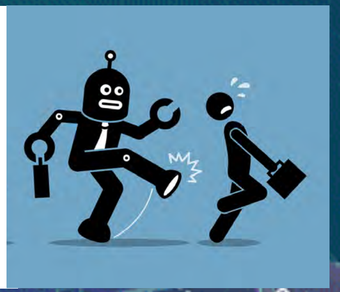
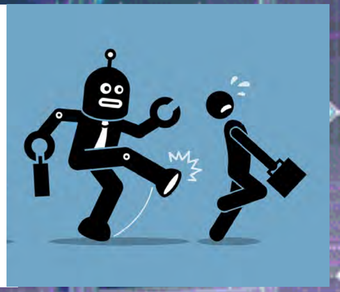
We Desperately Need Machine Intelligence in Order to Advance

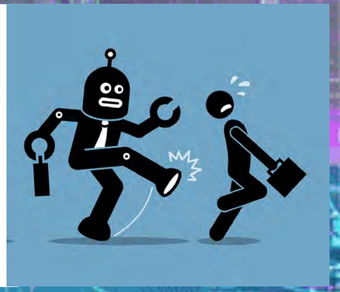
To take over jobs that are dangerous for people
(i.e. physical security, violence response)



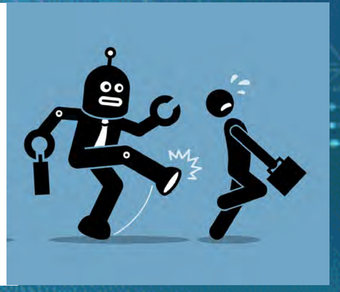
To take over making decisions that require access to large amounts of ever changing data
(i.e. threat assessment)



To reconfigure security capabilities in real-time based on new attack vectors
(i.e. cybersecurity defense)



To solve complex problems at faster speeds and with a higher rate of effectiveness
(i.e. event management)



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With little in the way of Digital Borders, countries are struggling to balance openness with security, while pondering digital walls for nationalistic purposes

Businesses are being used as Pawns in Cyber Warfare plans. This creates a need to protect themselves, or depend wholly on government defense plans

The scale of Organized Digital Crime is growing quickly and it is getting difficult to discern between criminals and state sponsored groups

Integrated Security is the only path for the industry because physical, electronic & Cyber security cannot defend future attacks on their own

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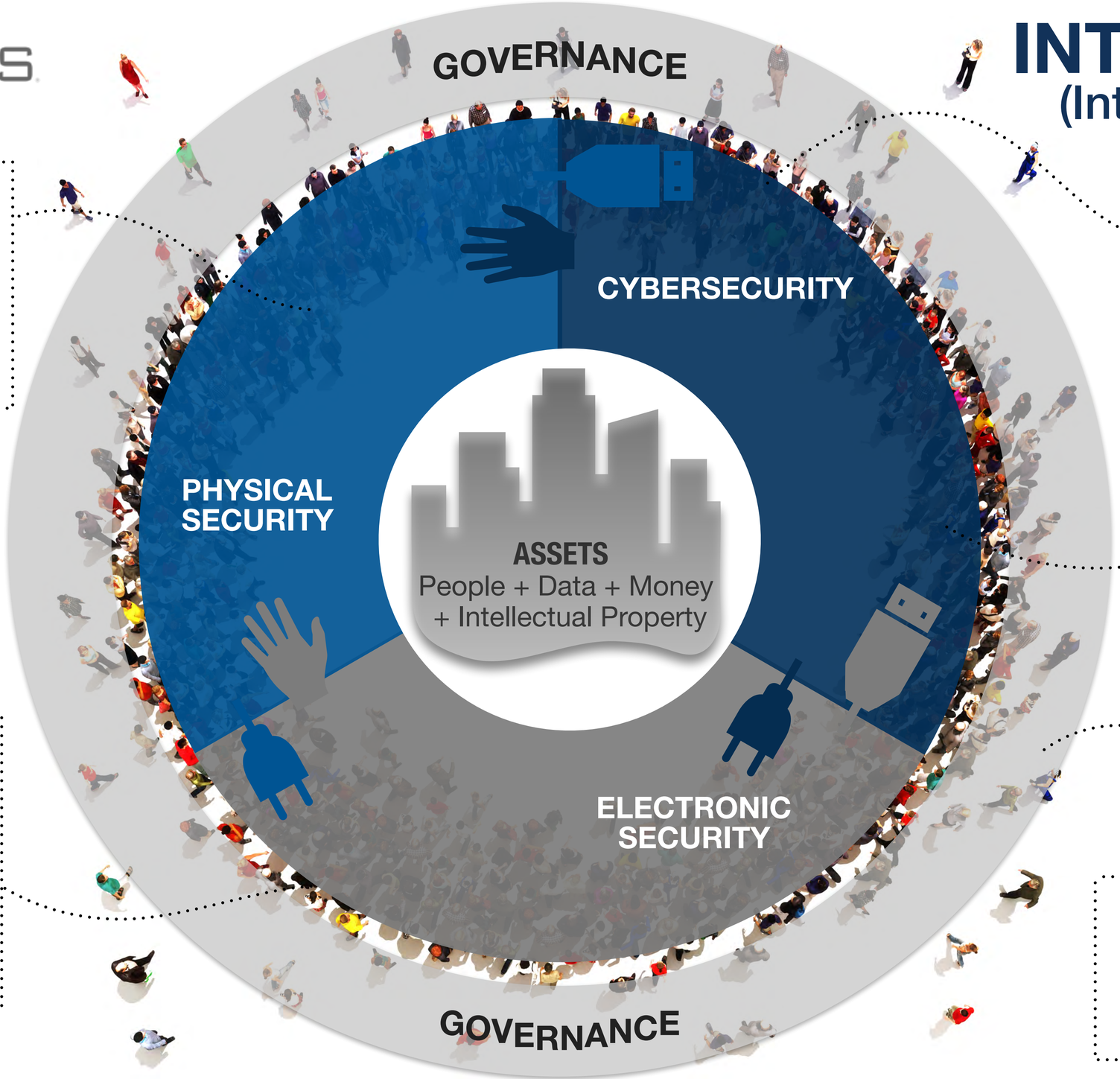
INTSEC MODEL
(Integrated Security)



PHYSICAL SECURITY
Buildings, Guards, Gates and other physical measures in place to secure your assets.
The Physical Firewall

HUMANS
The lifeblood in and around your organization that supports the success of your mission, but also the first line of defense from any attack:
The Human Firewall.

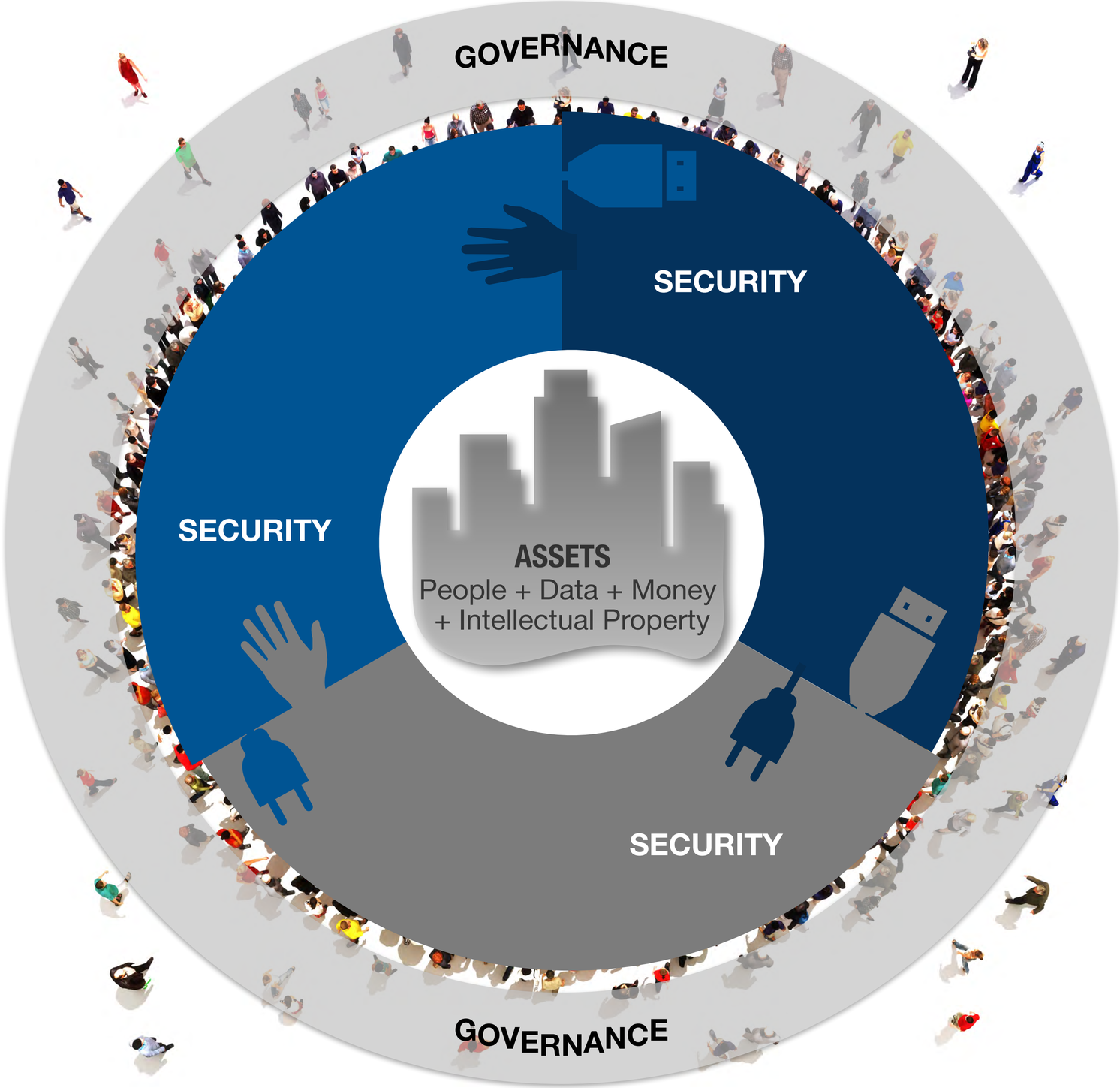
CYBERSECURITY
The systems you have in place to protect your electronic data and operational systems
The Network Firewall.

ELECTRONIC SECURITY
Devices ranging from surveillance cameras to access control badges, biometric scanners, or facial recognition systems.

GOVERNANCE
The policies and rules set in place which support ongoing excellent security processes that keep your assets protected.

In the end, there will only be:

- Risk Analysis
- Security
- Event Management



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AN INTEGRATED SECURITY MODEL

ALIGN the Security Strategy

with the Risk Strategy

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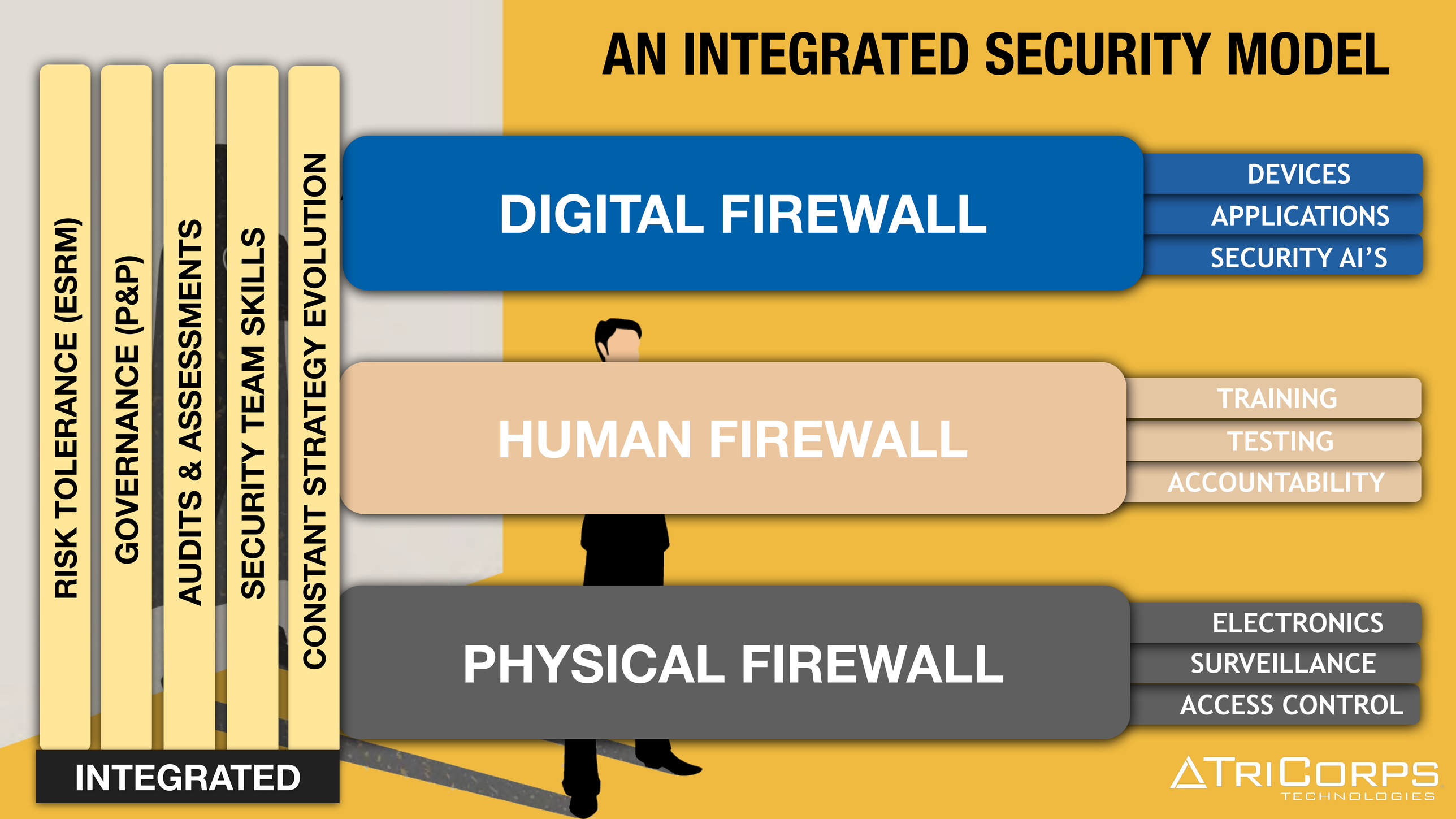
AN INTEGRATED SECURITY MODEL



RISK TOLERANCE (ESRM)

GOVERNANCE (P&P)

AUDITS & ASSESSMENTS

SECURITY TEAM SKILLS

CONSTANT STRATEGY EVOLUTION

INTEGRATED

DIGITAL FIREWALL

- DEVICES
- APPLICATIONS
- SECURITY AI'S

HUMAN FIREWALL

- TRAINING
- TESTING
- ACCOUNTABILITY

PHYSICAL FIREWALL

- ELECTRONICS
- SURVEILLANCE
- ACCESS CONTROL

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Like it or not, technology has become the jugular vein of your business

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