

RSA® Conference 2022

San Francisco & Digital | June 6 – 9

SESSION ID: PART1-R01

Expect More: Realizing the True Impact of Your Intelligence Program

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President

Recorded Future®

TRANSFORM



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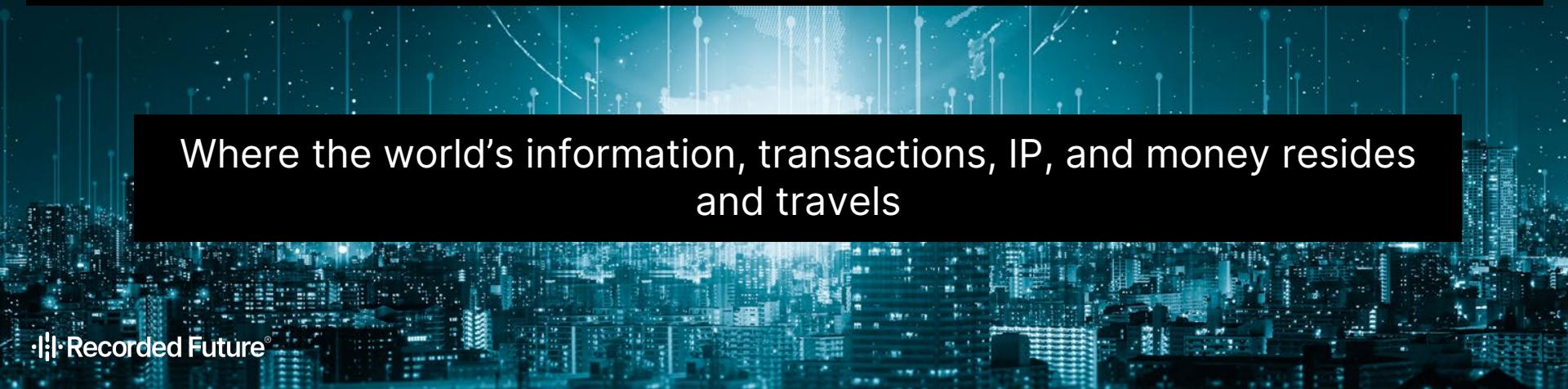
The Bottom Line Up Front

- Why it's worthwhile to manage risk beyond audit compliance
(hint: the accelerating convergence of the physical and cyber worlds)
- How intelligence informs strategic security priorities and reduces uncertainty
- Building scalable and consumable intelligence
- Why automation in intelligence is critical to creating measurable operational outcomes
- We need to expand the paradigm for the use cases of intelligence

Image Source: coscon.princeton.edu



Everything Eventually Ends Up on The Internet



Where the world's information, transactions, IP, and money resides
and travels



Everything Eventually Ends Up on The Internet



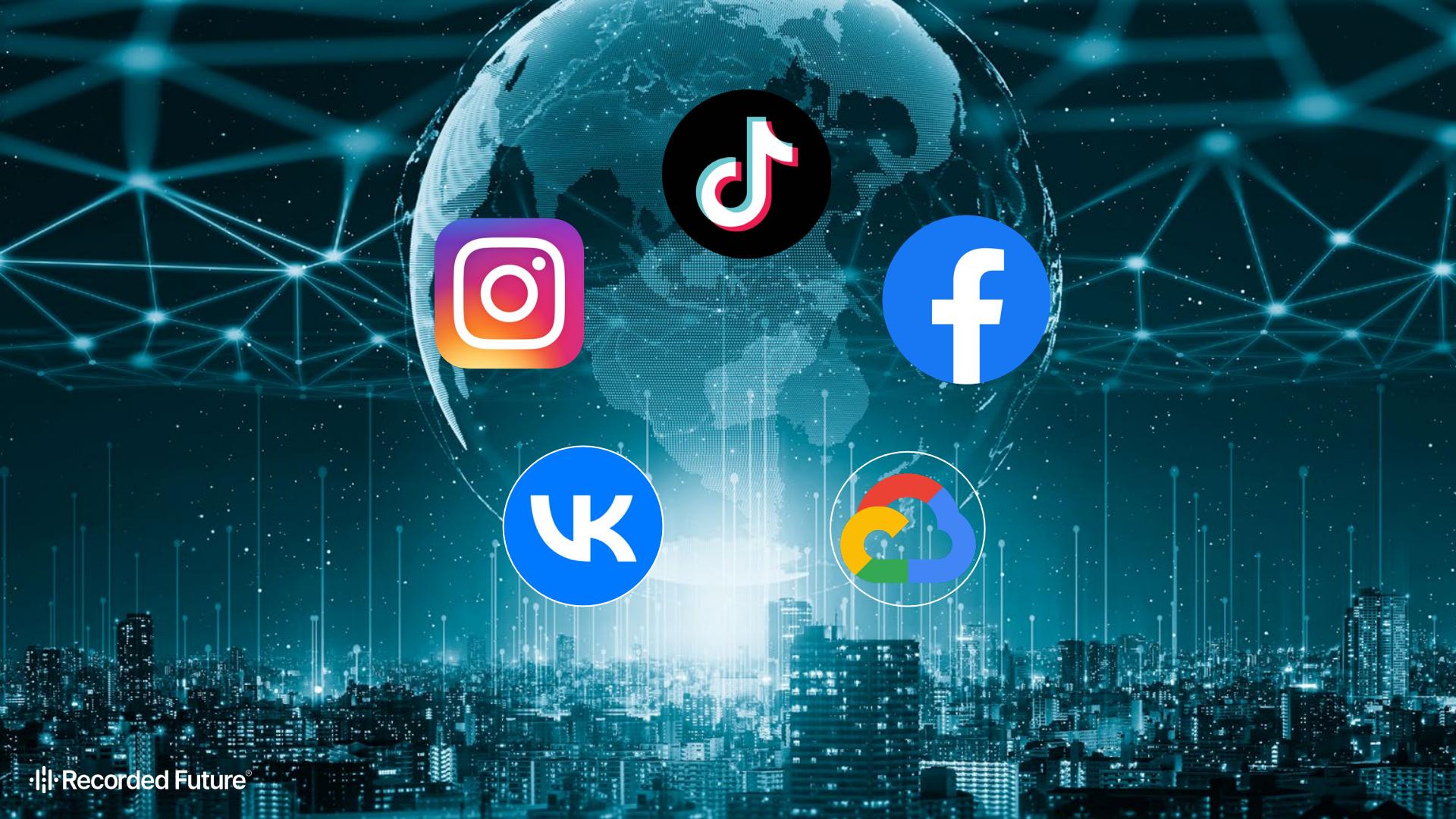
Where cyber attacks are planned, executed, and profited from



**Humanity Has
Become a Sensor**

**The Opportunity
And The Challenge**

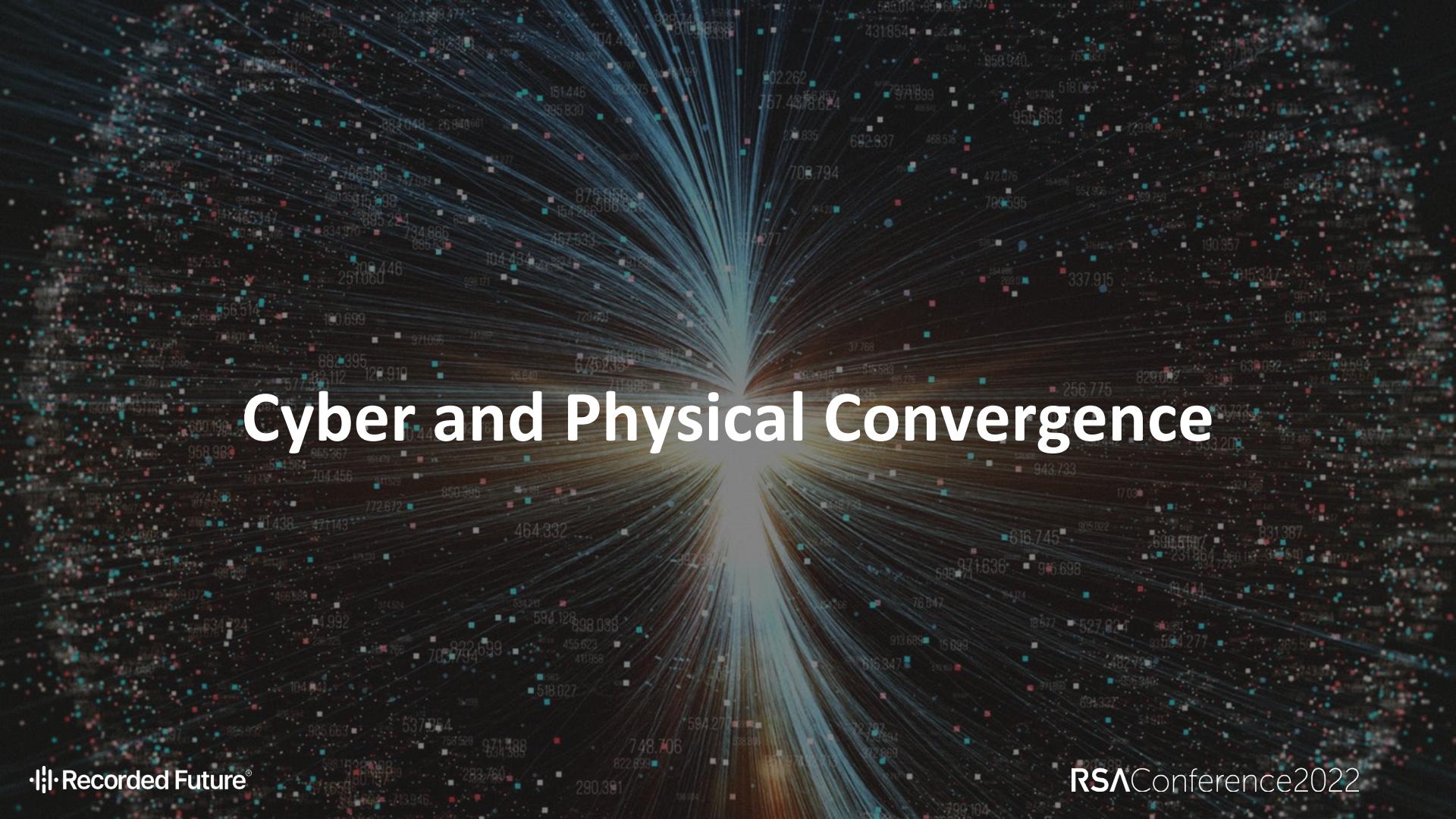




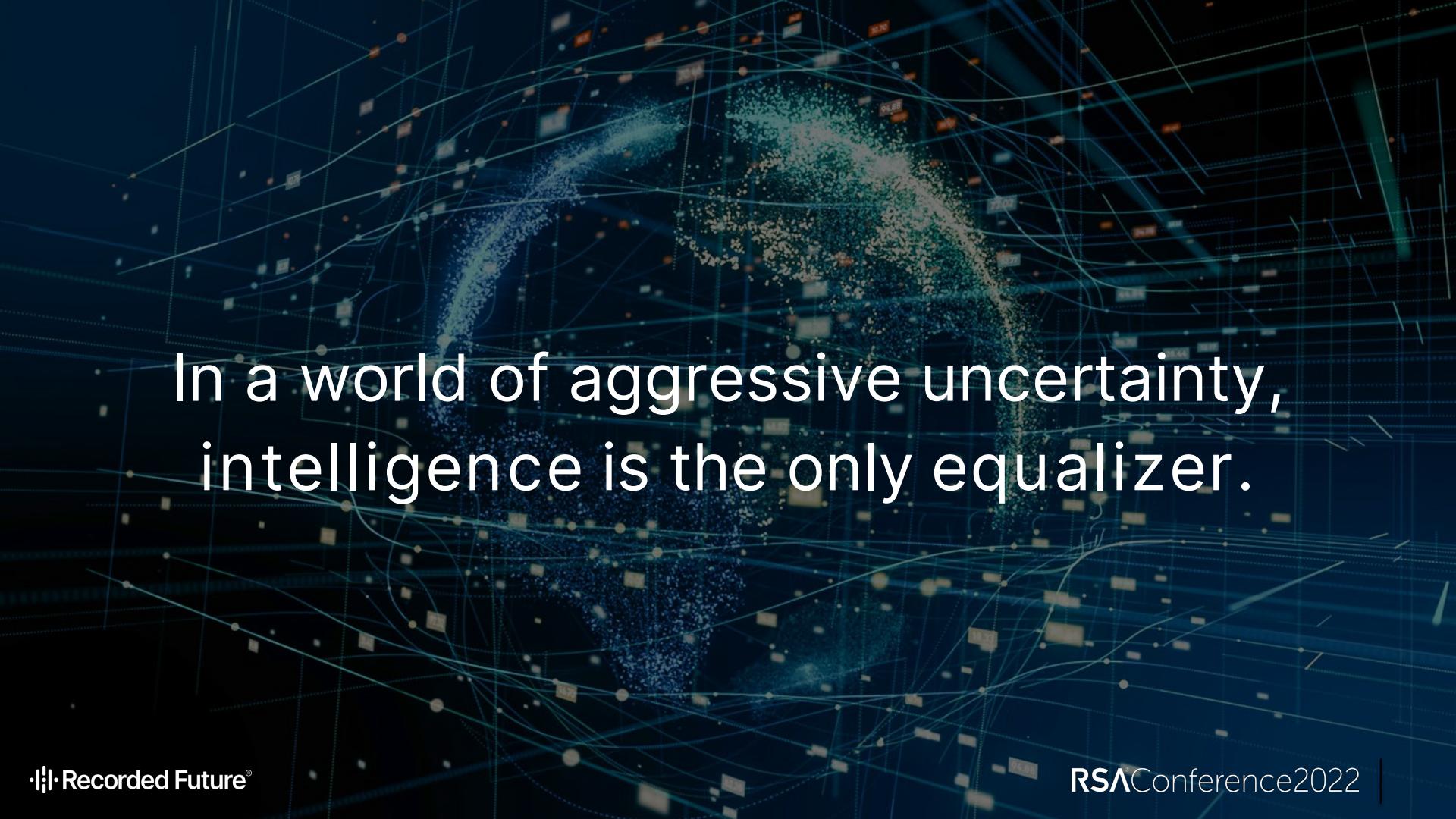
A massive flock of birds, likely starlings, is captured in flight against a warm, orange and yellow sunset sky. The birds are silhouetted against the light, creating a dense, swirling pattern across the frame.

EPIC MIGRATION IN PLAY





Cyber and Physical Convergence



In a world of aggressive uncertainty,
intelligence is the only equalizer.

Our Original Idea

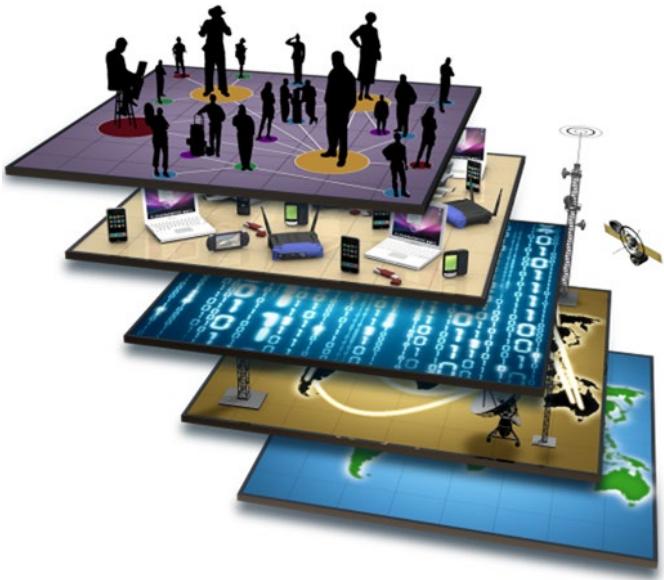
- Build a threat-oriented “digital twin” of the world
- Organize for analytics – human and algorithmic
- Enable threat analyst centaurs





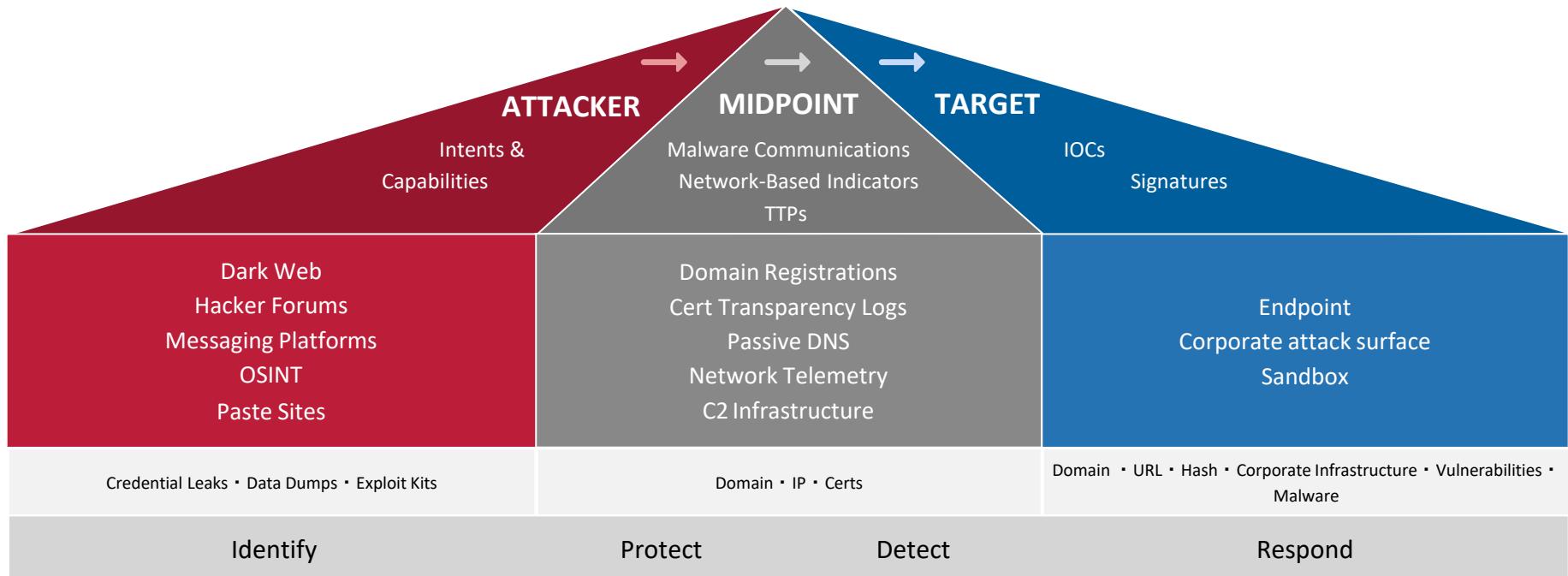
**Intelligence Is Not Just
For The Government**

The Operating Space is Vast, and We All Operate It



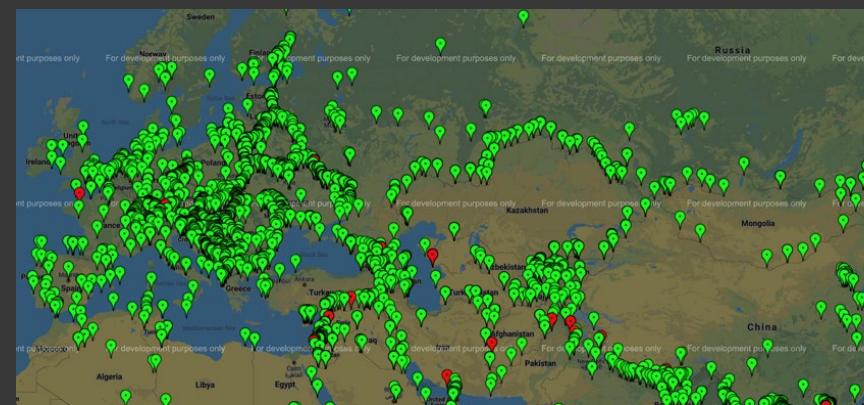
End-to-End View of Threats

Visibility From Attackers Through Midpoint to Targets



Imagery Intelligence for Deeper Context and Visual Confirmation

Now available in the Threat Intelligence and Geopolitical Intelligence modules and to Advanced license holders



Adversaries Building For Scale

Blurring lines, optimizing for unpredictability



IMAGE: EUROPOL

Catalin Cimpanu | November 8, 2021

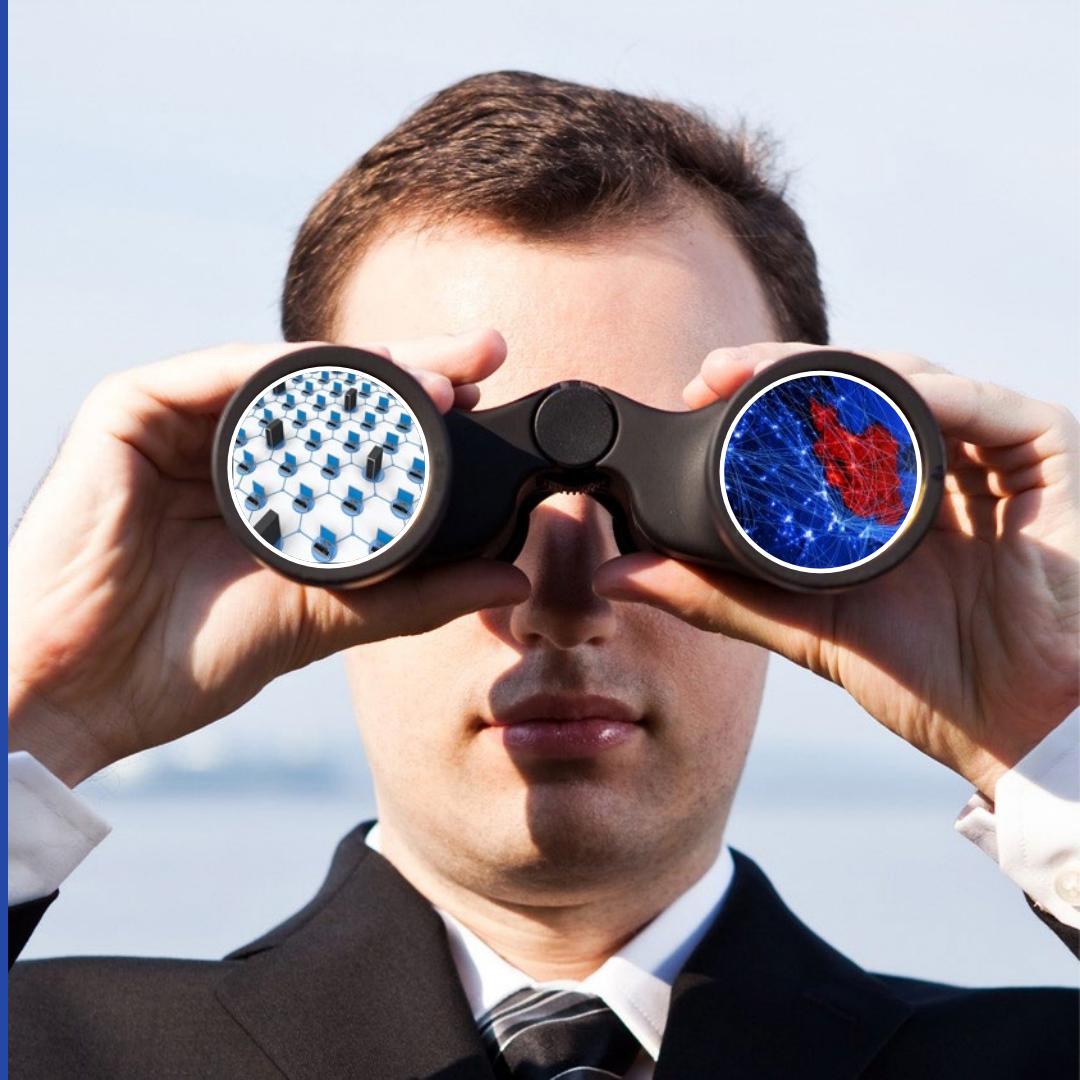
Europol: Seven REvil/GandCrab ransomware affiliates were arrested in 2021

Ransomware gangs outsource operations

- Affiliate programs
- Commercial contractors
- Malware vendors
- Freelancers

Change in actor behaviour → Change in defensive strategies

Situational Awareness Requires Internal and External Perception



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Ultimately, What is Our Mission?





TAKE ACTION



What Does Everyone Need?



WHO



WHAT



WHERE



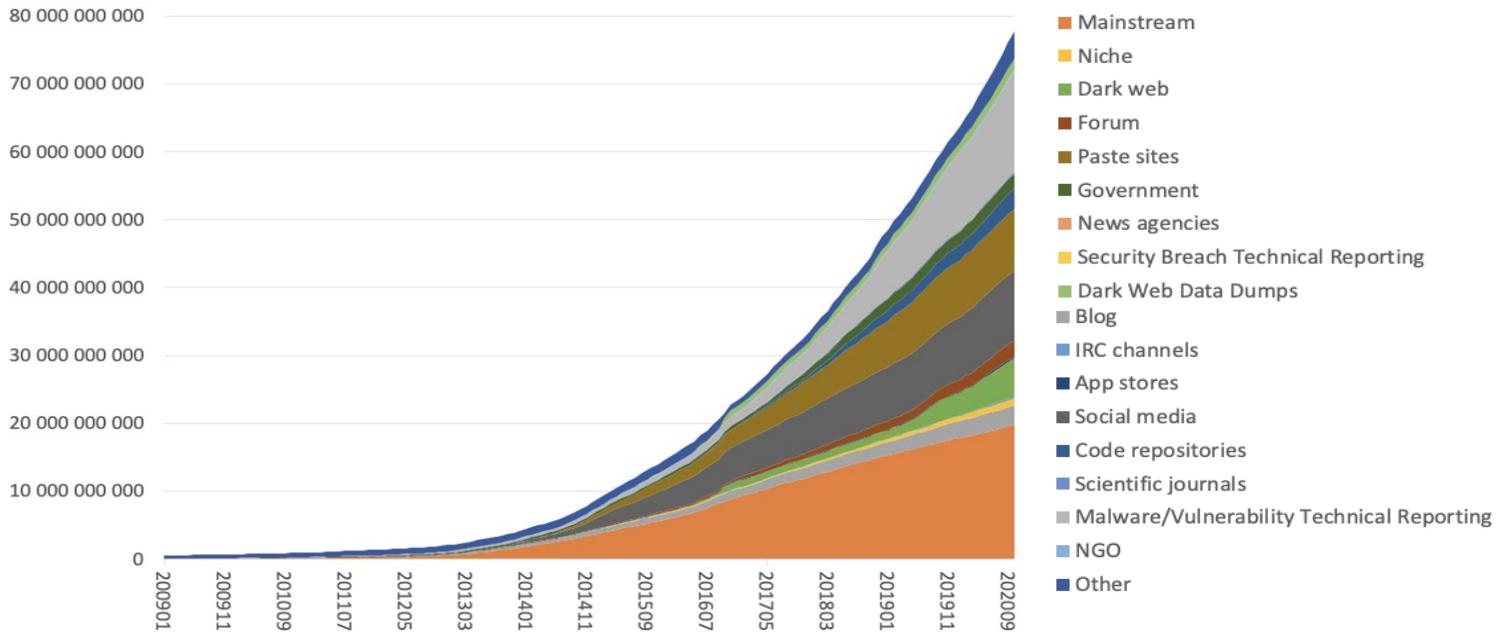
WHEN



HOW

Growth of Recorded Future's Collection

References by Media Type in Recorded Future



Disparate Sources of Threat Data

Current Emotet Epoch 1 C2 as of 2020-01-17: **119.59.124.163:8080**

Source: [PasteBin](#)

Электронные письма содержали вредоносный документ **Microsoft Word**, который при открытии пытался загрузить **Emotet** на компьютер жертвы

Source: [cyber-safety.ru](#)

United Nations targeted with **Emotet Malware Phishing attack**

Source: [Twitter](#)

A new **Emotet** campaign has been observed by the Cofense Labs sending malicious emails with a Christmas themed subject to entice victims to open the attachment

Source: [BleepingComputer](#)

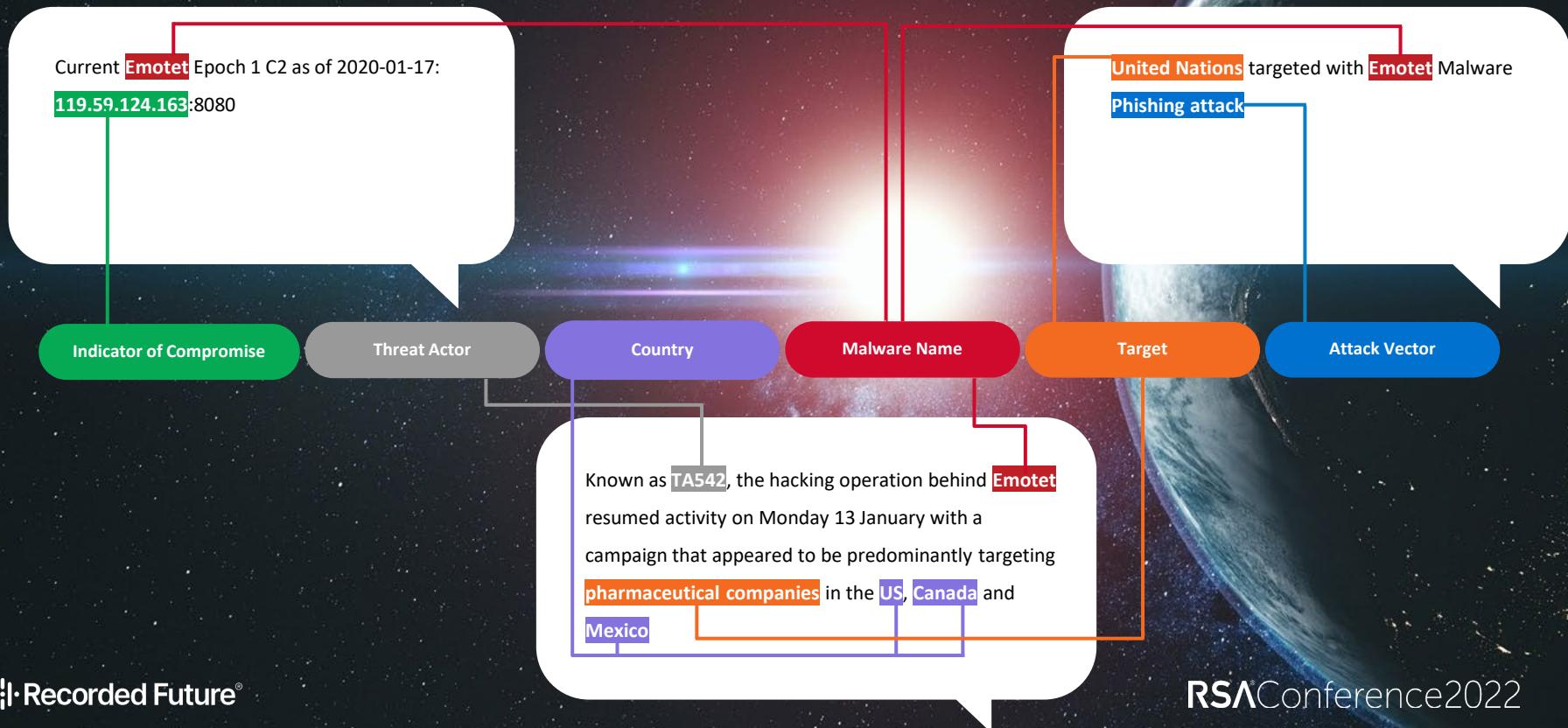
Known as **TA542**, the hacking operation behind **Emotet** resumed activity on Monday 13 January with a campaign that appeared to be predominantly targeting pharmaceutical companies in the **US, Canada and Mexico**

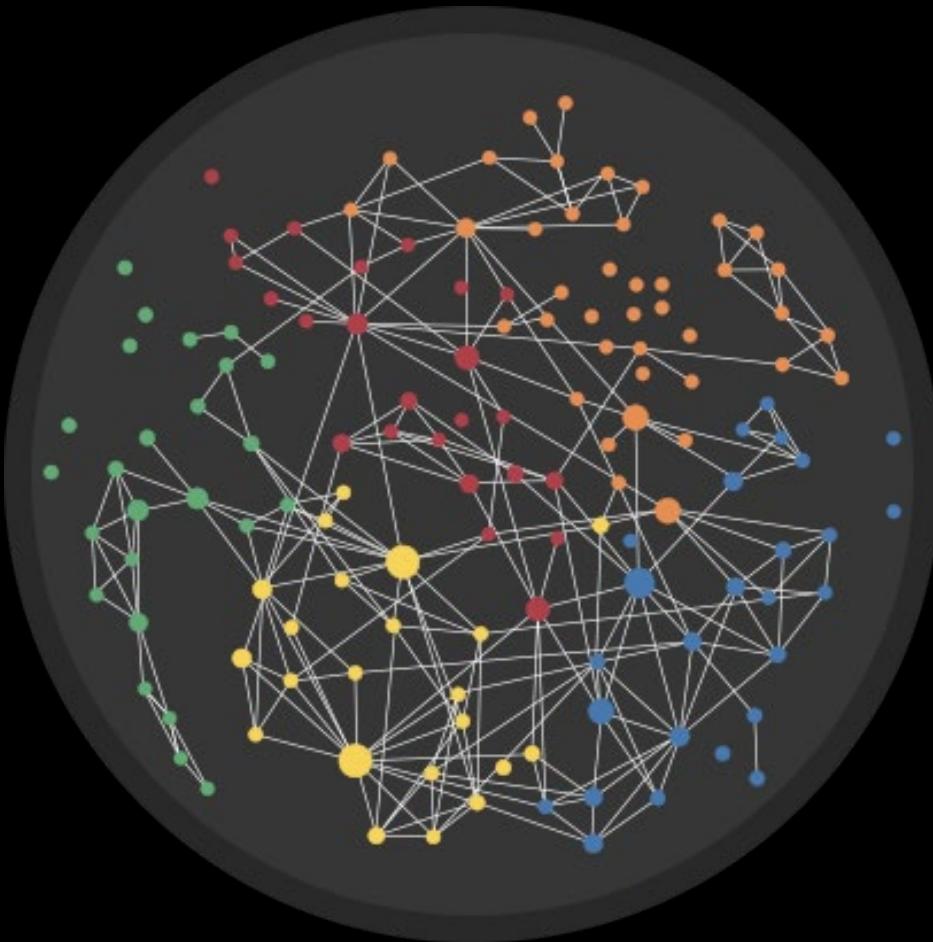
Source: [ZDNet](#)

Aktuell werden gefälschte "sichere E-Mails" mit angeblichen Rechnungen zur Verbreitung der **#Schadsoftware #Emotet** versendet. Nicht den Link in der E-Mail öffnen!

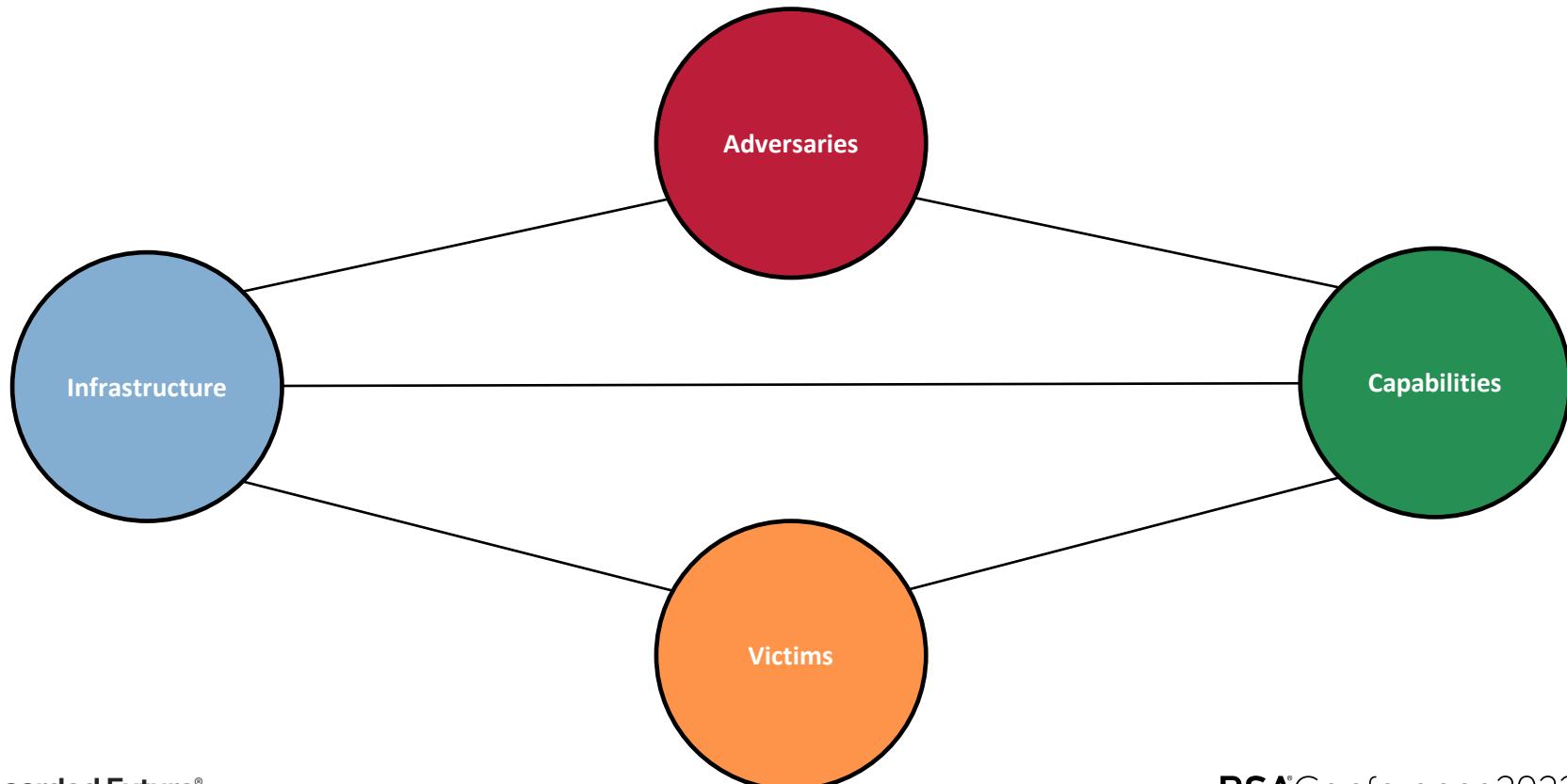
Source: [CERT-BUND Twitter](#)

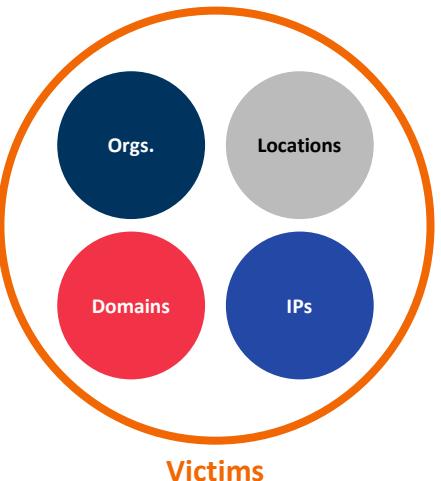
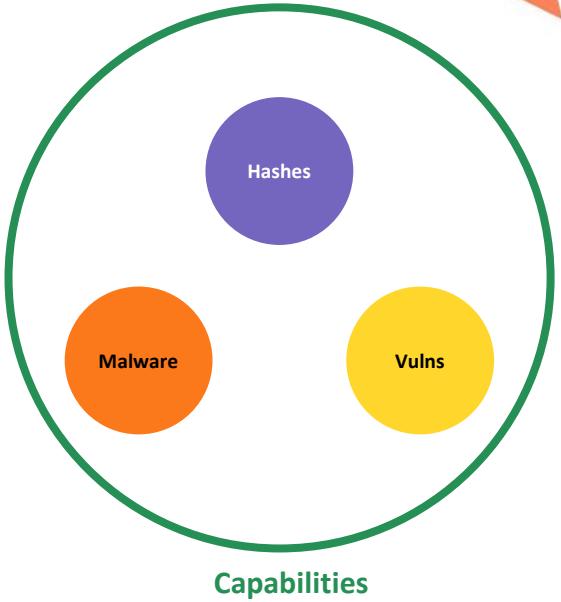
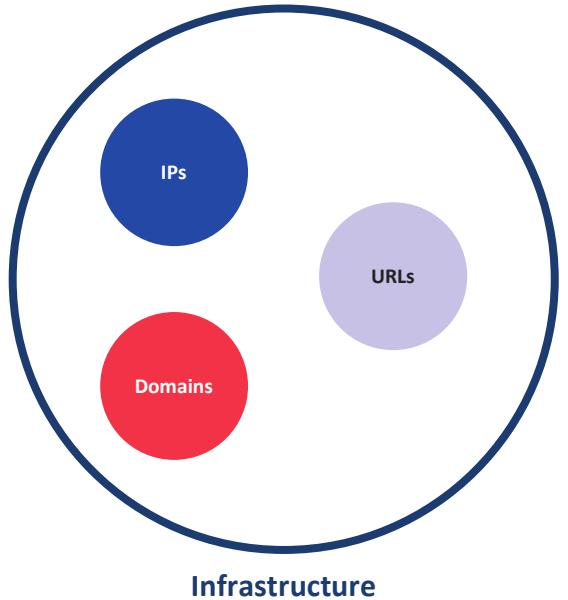
Automated Activities to Generate Intelligence

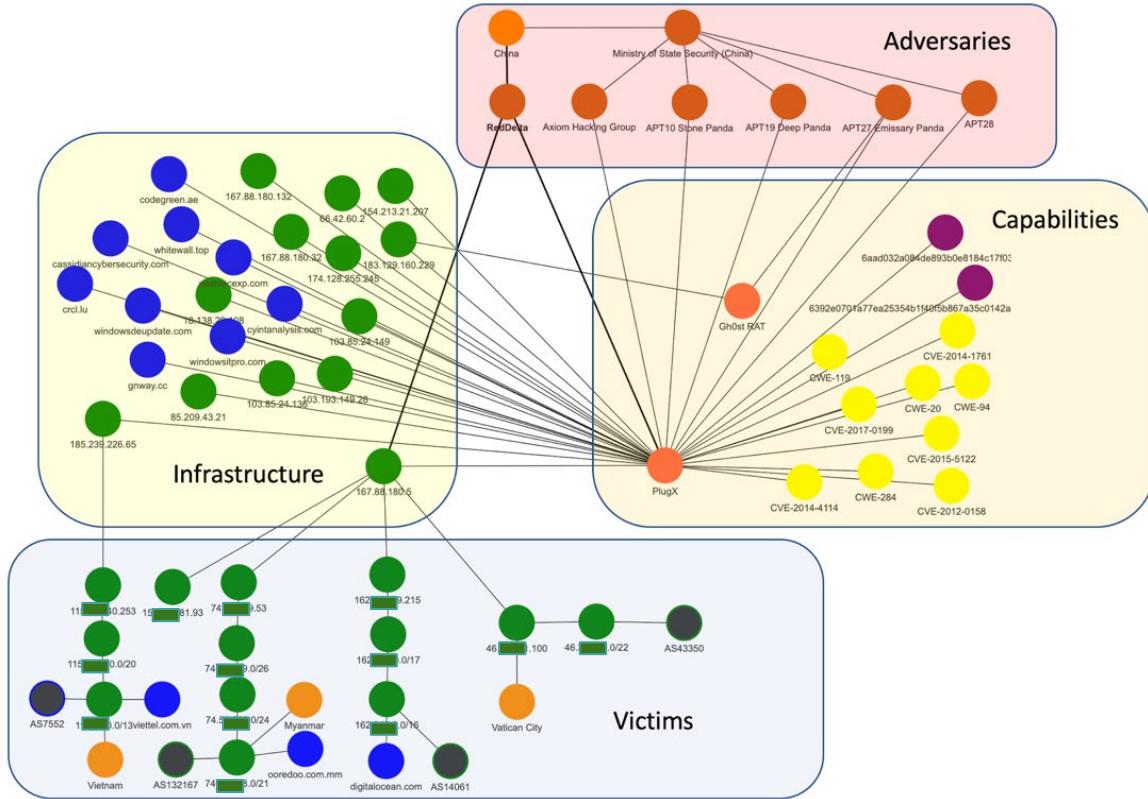




Entity Categories in the Security Intelligence Graph



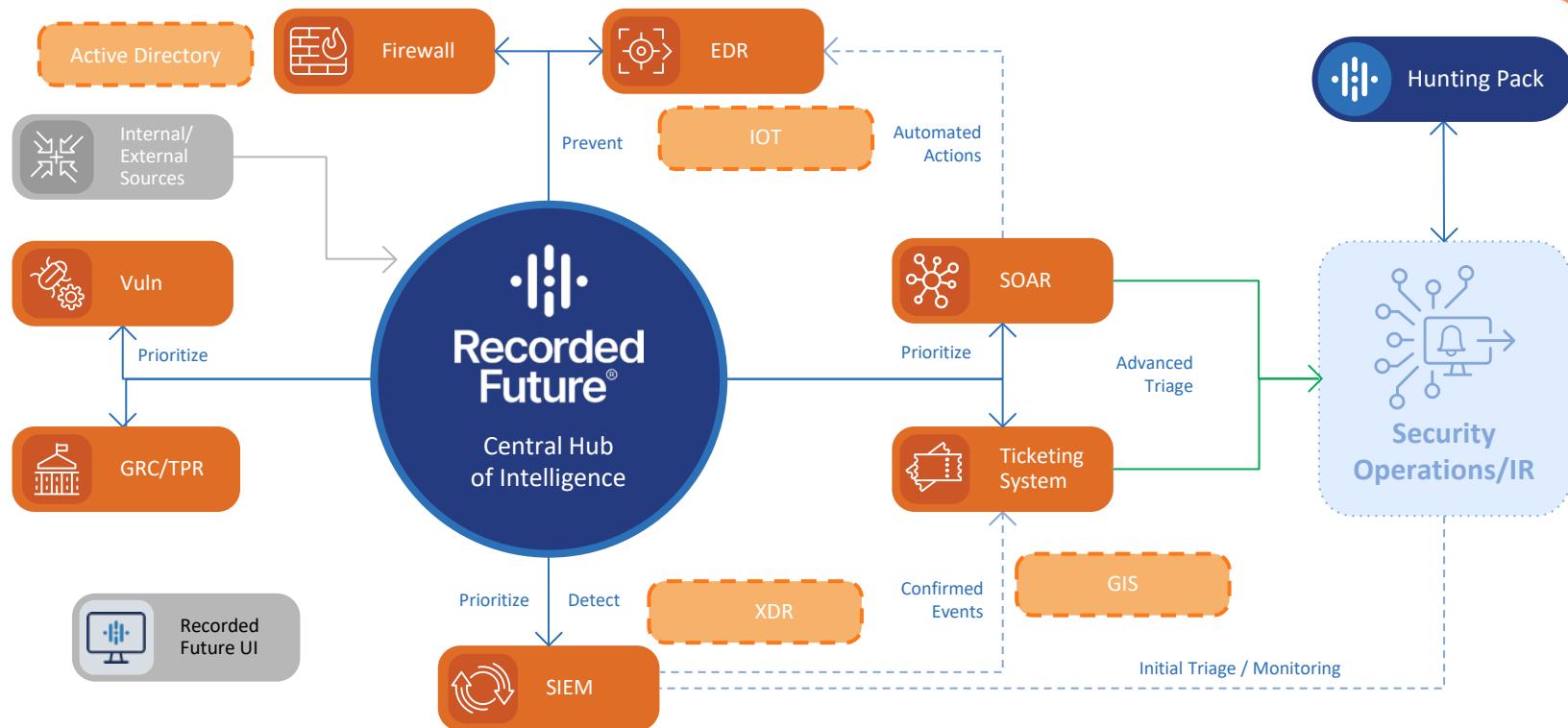




SECURITY INTELLIGENCE: QUICKLY IDENTIFY, PRIORITIZE, AND ACTION THREATS WITH CONFIDENCE



Maximize the value of existing security investments





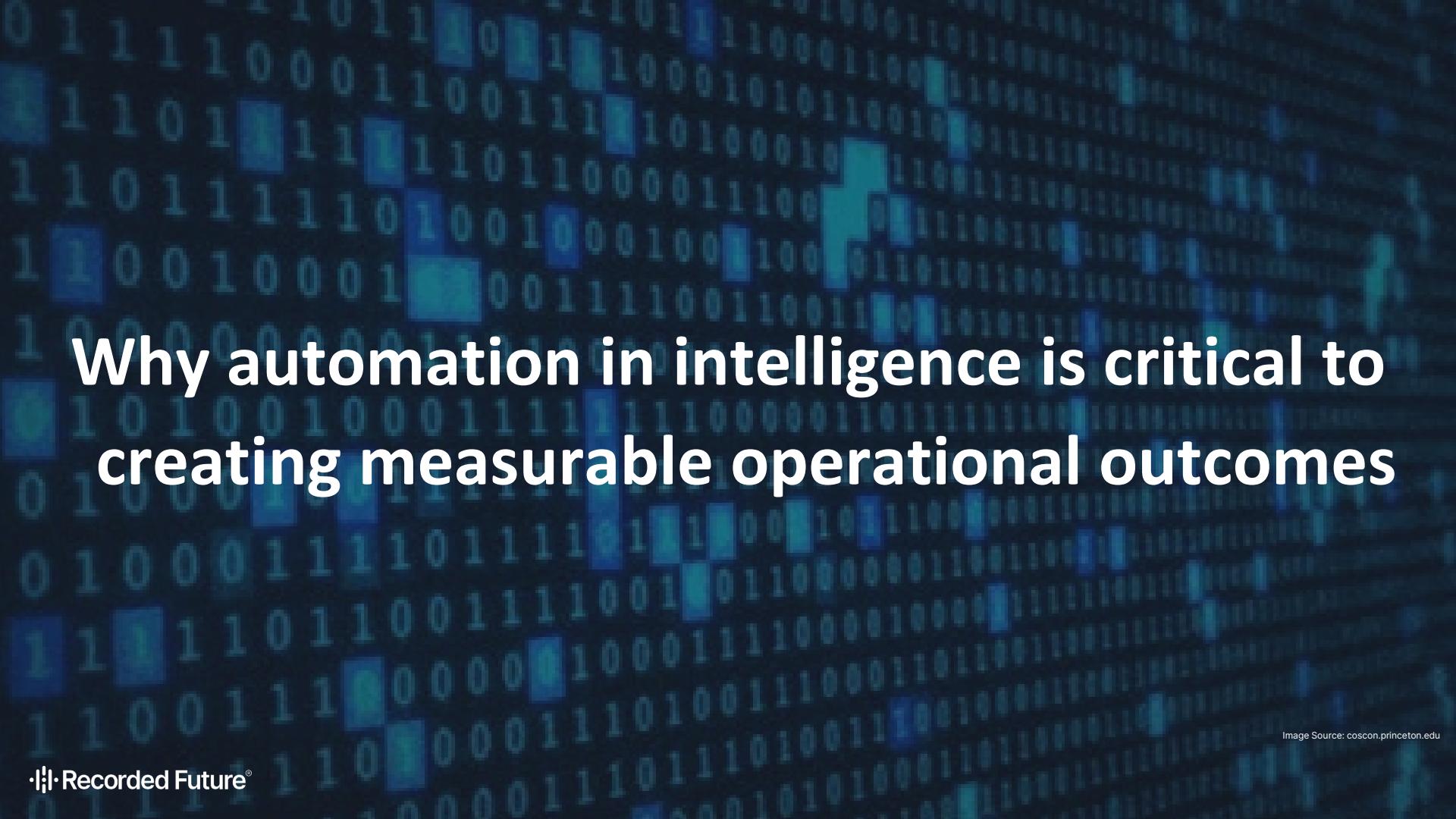
**Why it's worthwhile to manage risk beyond audit
compliance and do so while working as a team**



How intelligence informs strategic security priorities and reduces uncertainty

“The question has shifted from ‘How much is enough?’ (Gordon and Loeb’s 2002 model) to ‘Where and when to invest?’ Uncertainty also plays a key role in the timing of security investments, having an effect on the choice of proactive and reactive protection measures.”

– Economic aspects of national cyber security strategies (Brangetto & Aubyn, 2015)



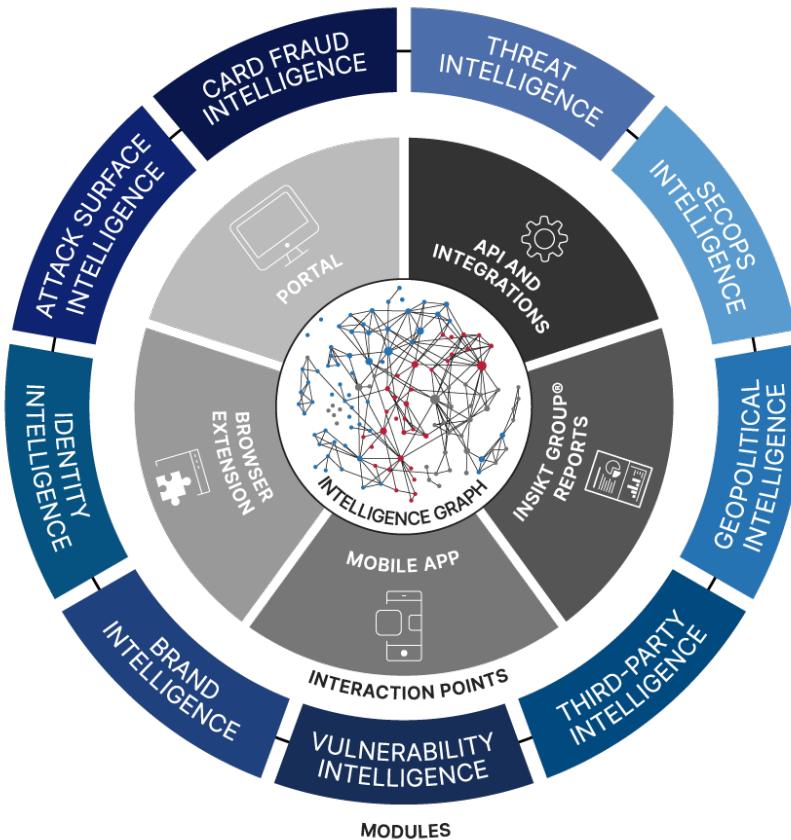
Why automation in intelligence is critical to creating measurable operational outcomes

Image Source: coscon.princeton.edu

Applying Intelligence Across the Enterprise

- Threat Intelligence Production
- Vulnerability Management
- Sec Ops
- Prioritization
- Enrichment and Correlation
- Incident Response
- Threat Hunting
- Informed Emulation and Testing
- Perspective and Focus
- Third-party Risk
- Fraud
- Identity and Access Management
- Business Operations
- Physical Safety
- Supply Chain Management
- Strategic Intelligence
- Brand Management
- Planning/Strategy/Architecture
- Fusion Center Use Cases
- Decision Advantage

The Opportunity Lies in Moving Beyond The SOC





	Brand	Attack Surface	Physical	SecOps	Vulnerability	Fraud	Identity	3rd Party	Threat
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KPIs 									
Risk Briefing 									



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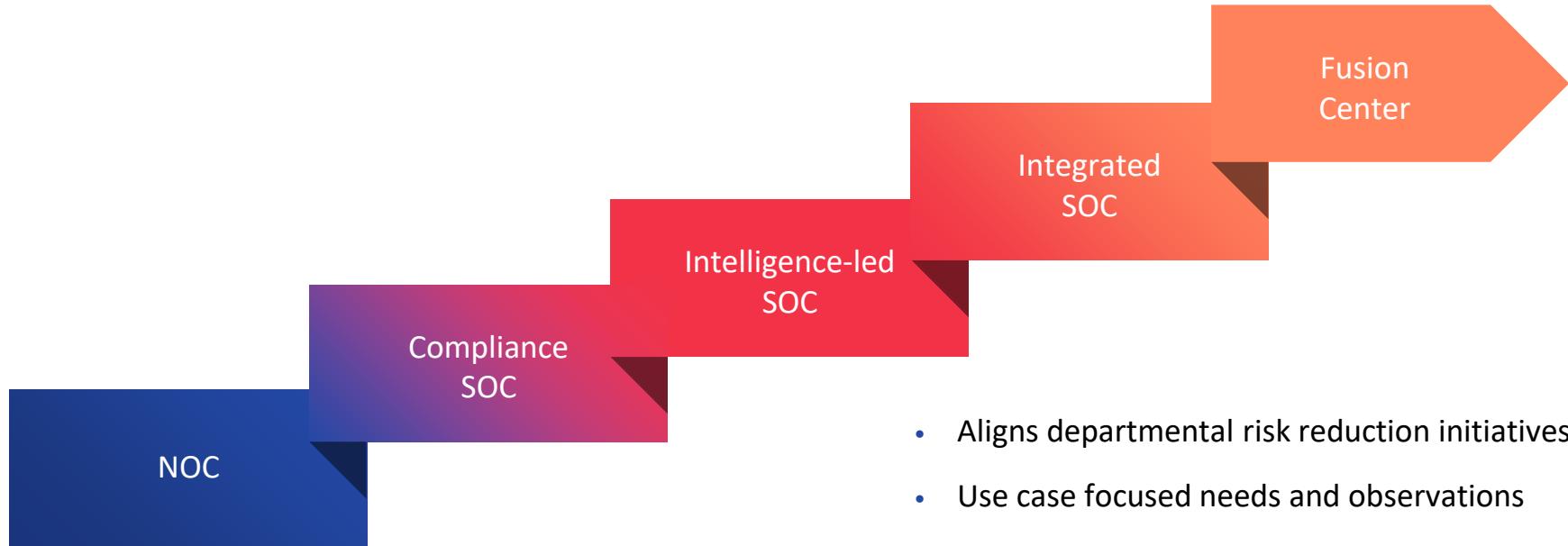
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Consumption 	<ul style="list-style-type: none"> • Email reporting • API 	<ul style="list-style-type: none"> • API system integration • Email Alerting 	<ul style="list-style-type: none"> • Alerting • Geospatial monitoring • API system integration 	<ul style="list-style-type: none"> • Browser extension • System of record integration 	<ul style="list-style-type: none"> • Scanner integration • System of record integration 	<ul style="list-style-type: none"> • API system integrations • Manual reporting 	<ul style="list-style-type: none"> • API for SOAR playbook 	<ul style="list-style-type: none"> • System of record integration • Intelligence cards 	<ul style="list-style-type: none"> • Red team scenarios • Hunting team scenarios
Outcomes 	<ul style="list-style-type: none"> • Domain / social media / app store takedowns • Legal action 	<ul style="list-style-type: none"> • Exposed asset remediation 	<ul style="list-style-type: none"> • Site security • Business continuity response • Executive protection 	<ul style="list-style-type: none"> • Quicker event verdicts • Faster incident triage • Detect/block control actions 	<ul style="list-style-type: none"> • Patch prioritization 	<ul style="list-style-type: none"> • Active cards flagged • Account takeover prevention 	<ul style="list-style-type: none"> • Active Directory account resets 	<ul style="list-style-type: none"> • Vendor / supplier contract auditing / enforcement 	<ul style="list-style-type: none"> • Security control validation • Internal threat discovery • Trend identification
KPIs 	<ul style="list-style-type: none"> • Mean Time to Remove • ROSI 	<ul style="list-style-type: none"> • New assets discovered • ROSI 	<ul style="list-style-type: none"> • Physical / operational system disruption • ROSI 	<ul style="list-style-type: none"> • Correlated detection events • ROSI 	<ul style="list-style-type: none"> • Patch escalation • ROSI 	<ul style="list-style-type: none"> • Cost of fraud • Approved vs declined transactions • ROSI 	<ul style="list-style-type: none"> • Mean Time to Identify • ROSI 	<ul style="list-style-type: none"> • Exposure identification • ROSI 	<ul style="list-style-type: none"> • Mean Time to Assess • Mean Time to Deploy • ROSI
Risk Briefing 	<ul style="list-style-type: none"> • NIST CSF: ID.CM-5 • NIST CSF: ID.CM-7 • Reputation management 	<ul style="list-style-type: none"> • NIST CSF: ID.AM1-4 • Reduce breach probability • Risk reduction 	<ul style="list-style-type: none"> • NIST CSF: DE.CM2-3 • Improve resilience 	<ul style="list-style-type: none"> • NIST CSF: DE.AE2-3 • Improve resilience • Regulatory compliance 	<ul style="list-style-type: none"> • NIST CSF: ID.RA-1 • PR.AC1-7 • PCI DSS • Regulatory compliance 	<ul style="list-style-type: none"> • PCI DSS • Regulatory Compliance • Improve brand equity 	<ul style="list-style-type: none"> • NIST CSF: PR.AC1-7 • Risk reduction • Regulatory compliance 	<ul style="list-style-type: none"> • NIST CSF: ID.SC1-5 • DE.CM-6 • Risk reduction • Regulatory compliance 	<ul style="list-style-type: none"> • NIST CSF: ID.RA2-5 • DE.CM-4 • Improve risk assessments

The Evolution of Intel-led Security



- Aligns departmental risk reduction initiatives
- Use case focused needs and observations
- More effective information exchange
- Streamlines response



How do I reduce payment fraud?



Is my brand being impersonated?



How do I identify and prioritize the most impactful threats?



How are threats evolving? How do I prepare?



Are my user accounts compromised?



How do I manage geopolitical risk?

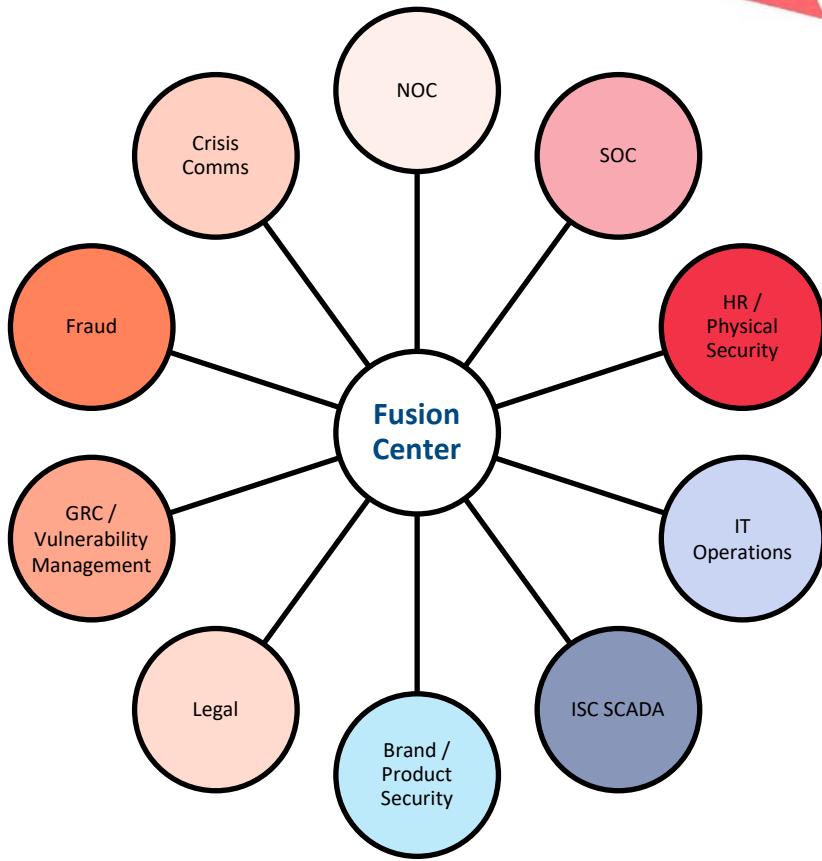


Is my supply chain introducing additional risk?



Which vulnerabilities pose the greatest risk?

Intel Informs Risk Decisions Beyond The SOC





- Ensure delivery of **timely and objective** national intelligence
- Establish **objectives and priorities** for collection, analysis, production and dissemination of national intelligence
- Ensure **maximum availability** of and access to intelligence information within the Intelligence Community



**Intelligence
Fusion Happens
Every Day in Our
Security Activities**

- Impacts end-users before SOC is aware
- Users contact help desk
- Help desk lacks escalation path
- No incident response playbook
- Unclear operational impacts
- Crisis communications
- Brand impacts





- Innumerable vulnerabilities exist
- Identifying exploitable technology is difficult
- Unclear how to prioritize patching
- Business justification difficulties
- Operational impacts

- Who do you trust?
- Is this request legitimate?
- Re-used Credentials
- Few boundaries between work and personal computing environments
- Exposed Credentials are prevalent
- No honor among thieves





- What is my exposure?
- Difficulty identifying problems early
- Should I trust this credential?
- Huge volumes to deal with
- Business process disruption and cost
- Client dissatisfaction

- Access to privileged information
- Frequently connect from unsecured locations
- Strapped for time
- Impersonation to gain access to confidential information
- Bad-guys take advantage of social media





- Third parties provide a gateway into the network
- What is my exposure?
- Difficulty identifying problems early
- Difficult to assess their security posture
- Not always disclosed when they are breached



- Temporal and location bound threats
- Nexus between the physical and logical threat environments
- Are my facilities or people in danger?
- Supply chain disruptions
- Business continuity



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Decision Advantage!



The Bottom Line Up Front

- Why it's worthwhile to manage risk beyond audit compliance
(hint: the accelerating convergence of the physical and cyber worlds)
- How intelligence informs strategic security priorities and reduces uncertainty
- Building scalable and consumable intelligence
- Why automation in intelligence is critical to creating measurable operational outcomes
- We need to expand the paradigm for the use cases of intelligence

Image Source: coscon.princeton.edu

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Thank You!

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