



# Moving Towards an Advanced Fusion Center

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# Topics

- ▶ Current State of Security Operations
- ▶ What is an Advanced Fusion Center?
- ▶ The Growing Scope of Security Operations
- ▶ The Journey Forward

# Current State of Security Operations

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# Current State

Over the past few years companies have made significant investments in technology and people to defend against cyber threats.

Operating management, senior leaders, and boards are frustrated their security posture is still challenged, a financial “black hole”, and they continue to face a risk of a successful attack.

**Executive leadership would like to mature and optimize their cyber operations, have assurance the investments are beneficial, and have confidence the business is protected.**



## Skills required to build an internal team are scarce

Many companies have a hard time staffing a SOC for 8x5 operation, much less 24x7 operations with the appropriate skills.



## Poor integration of controls

Companies have made significant investment in control infrastructure; yet little of the value has been sufficiently leveraged (limited implementation, poor data integration, operational challenges with new toolsets).



## Corporate alignment

Lack of feedback, metrics reporting, and cybersecurity program understanding results in less buy-in from leadership.

# Advanced Fusion Center

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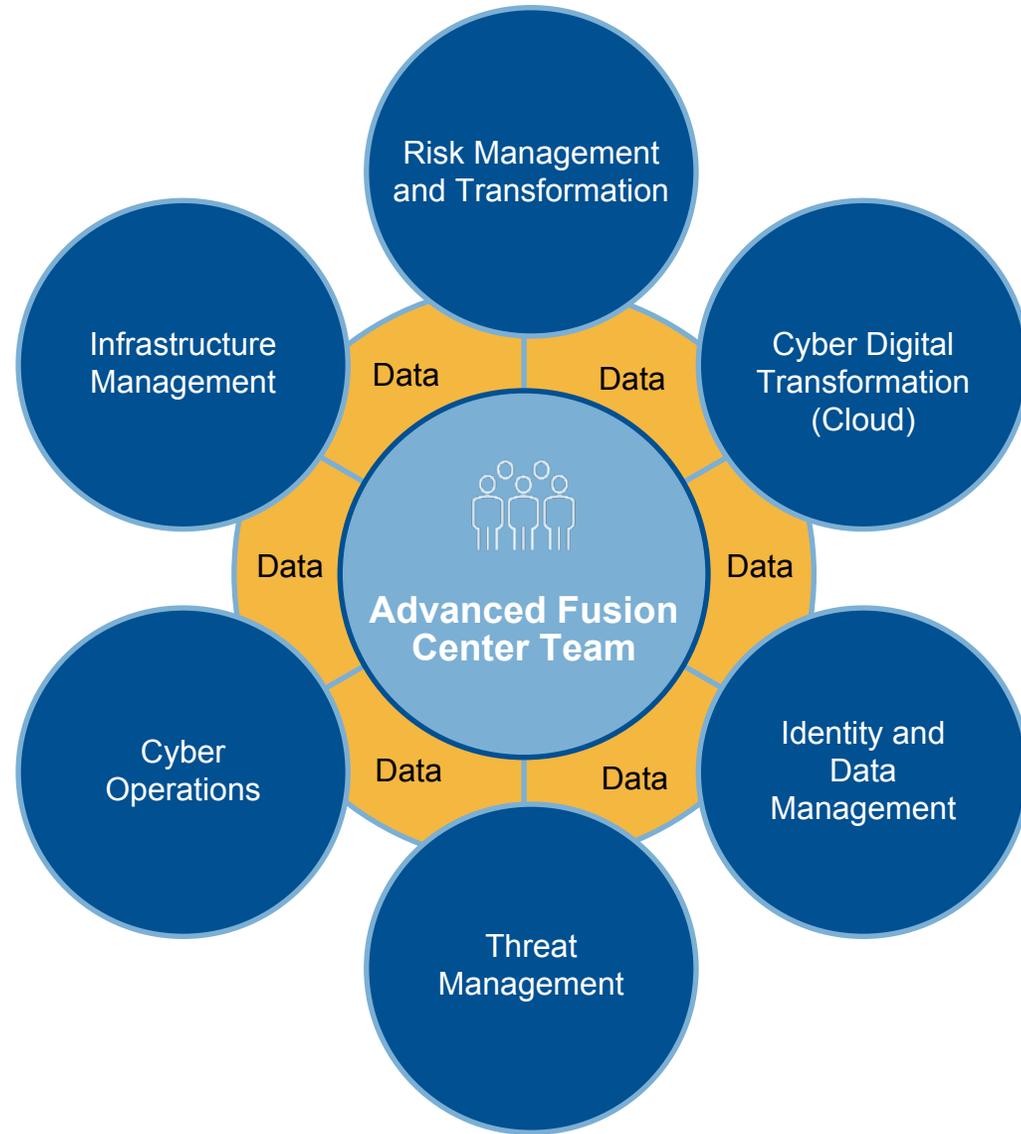




# Setting the Foundation



# Fusion Center is the Hub of Security Function and Data Integration



# End State Goal

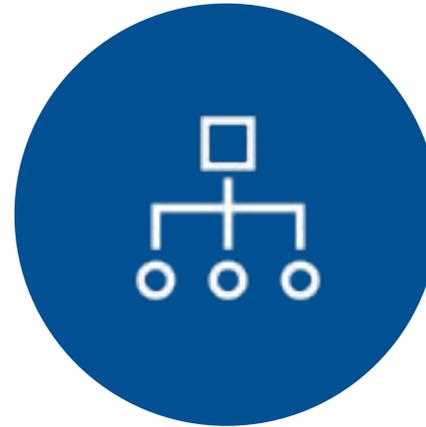
World Class Cyber Operations Center



Right Capabilities



Right Focus

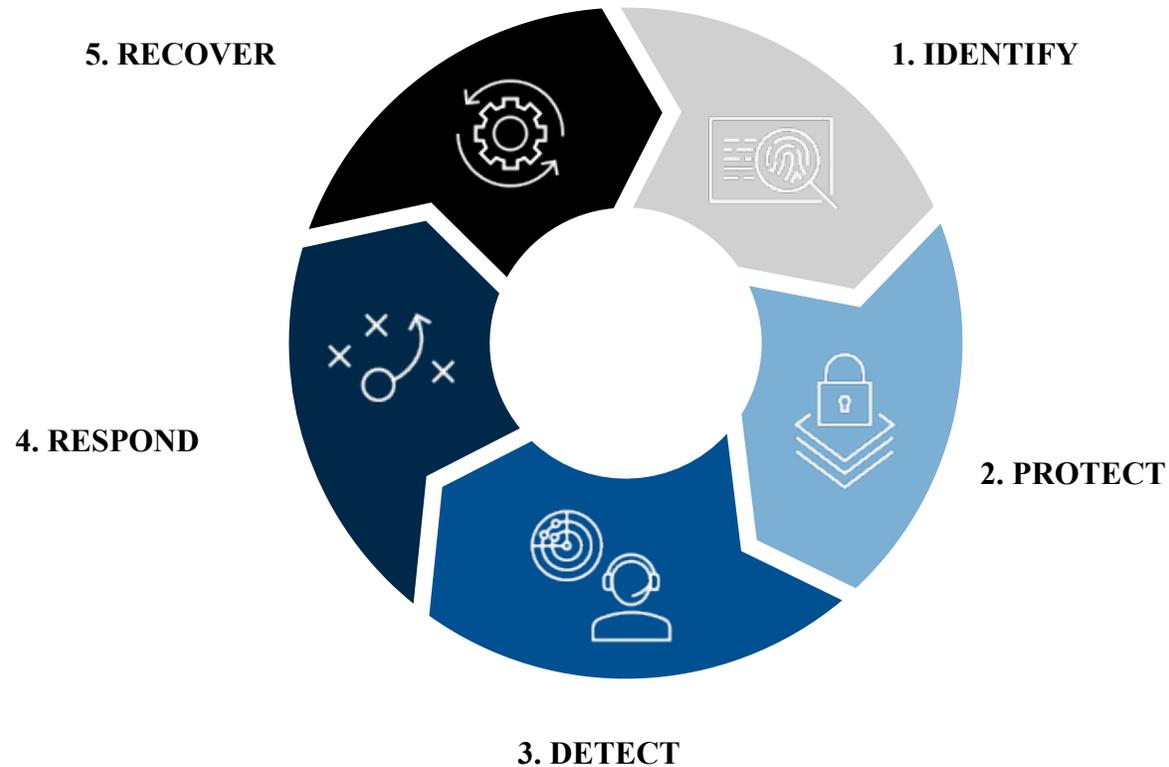


Right Organization



Right Governance

# Framework Lifecycle



- ▶ Assurance that the activities support the business objectives and are aligned with the greater IT and security organization
- ▶ SOC has the authority to act on its given responsibilities
- ▶ Performance is measured and measurable (i.e. metrics and reporting)
- ▶ Activities are consistent with applicable laws and regulations through adherence to policies and internal controls

# The Growing Scope of Security Operations Center

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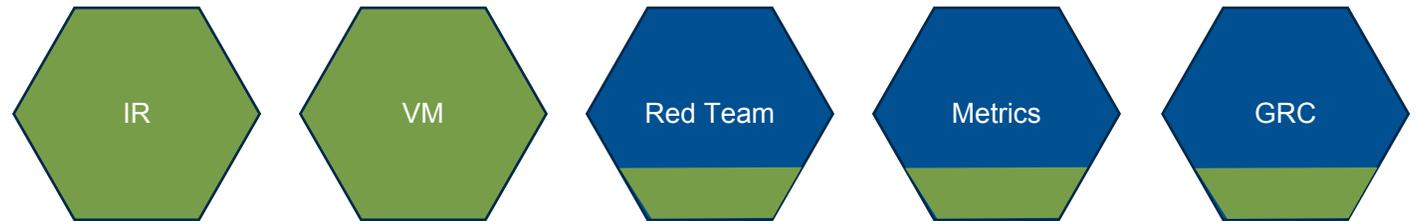


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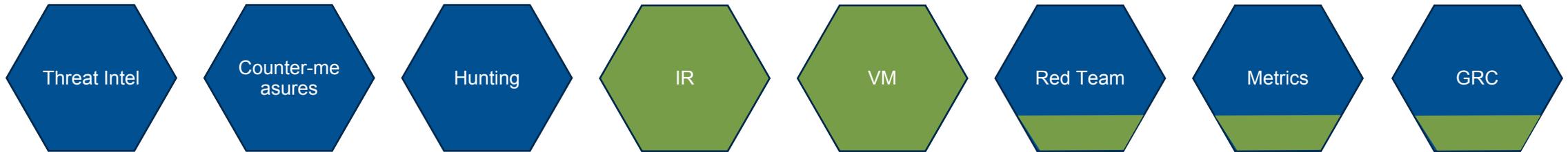
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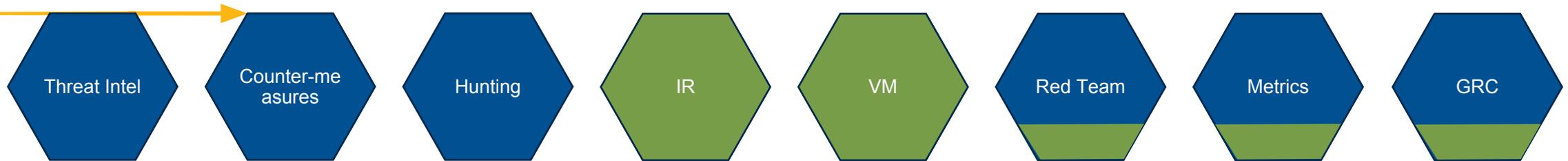
# Traditional SOC Functions



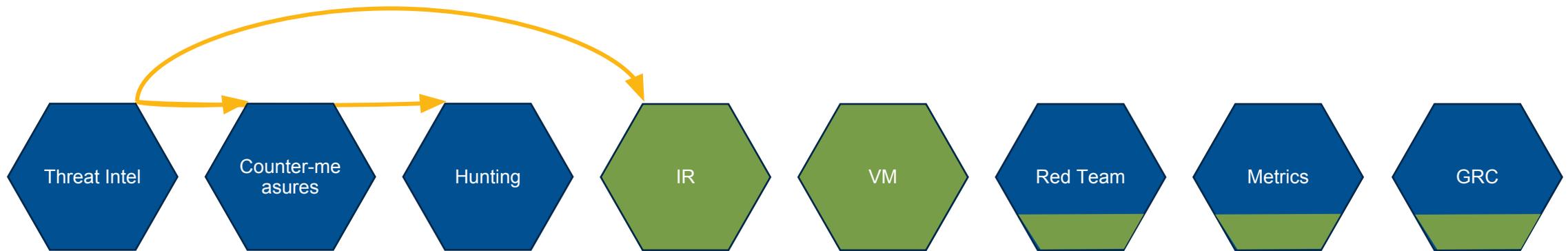
# Expanding SOC Functions



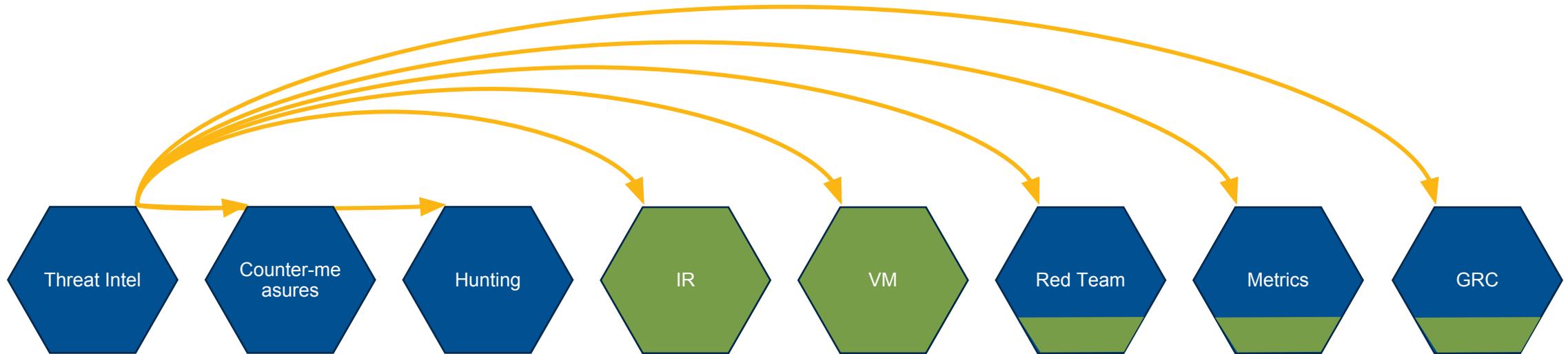
# Integrating SOC Functions



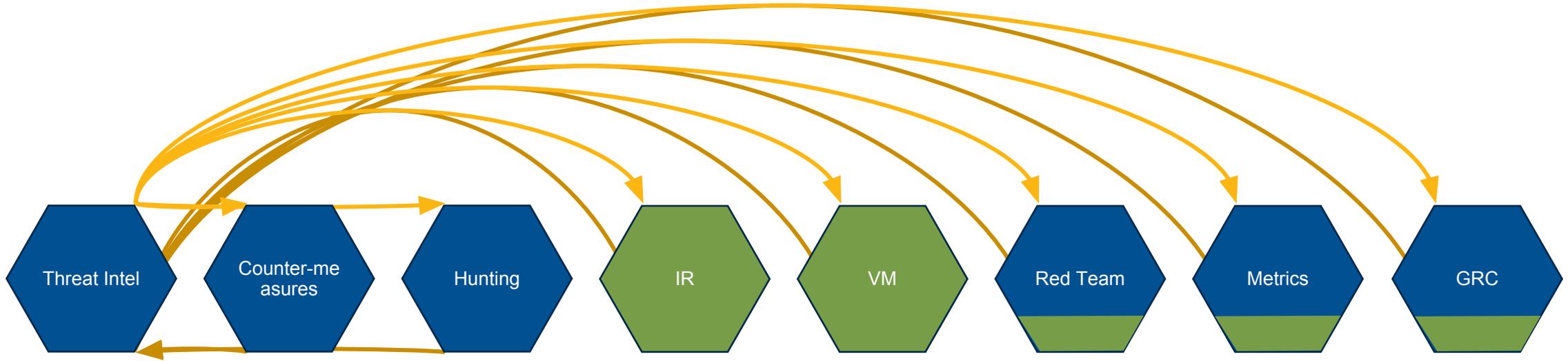
# Integrating SOC Functions



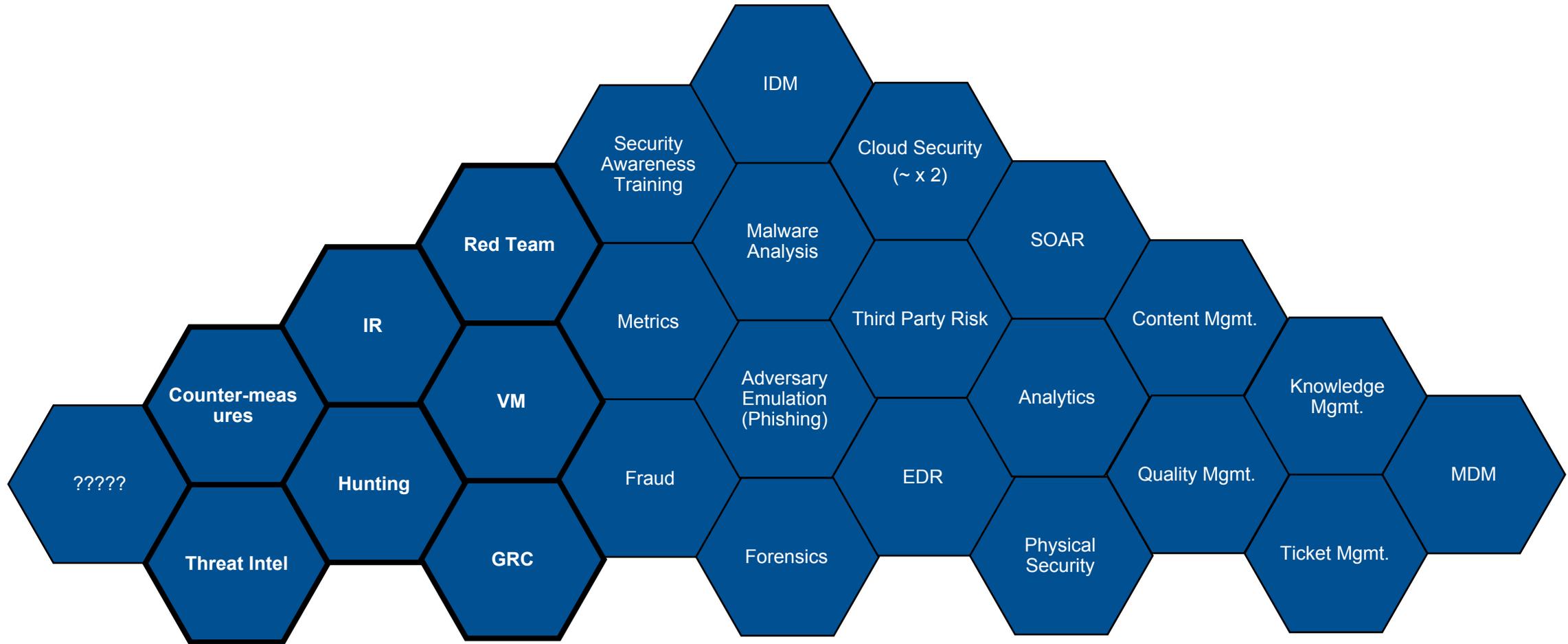
# Integrating SOC Functions



# Feedback Loop For Continuous Improvement



# Another Way To Look At An Integrated Advanced Fusion Center



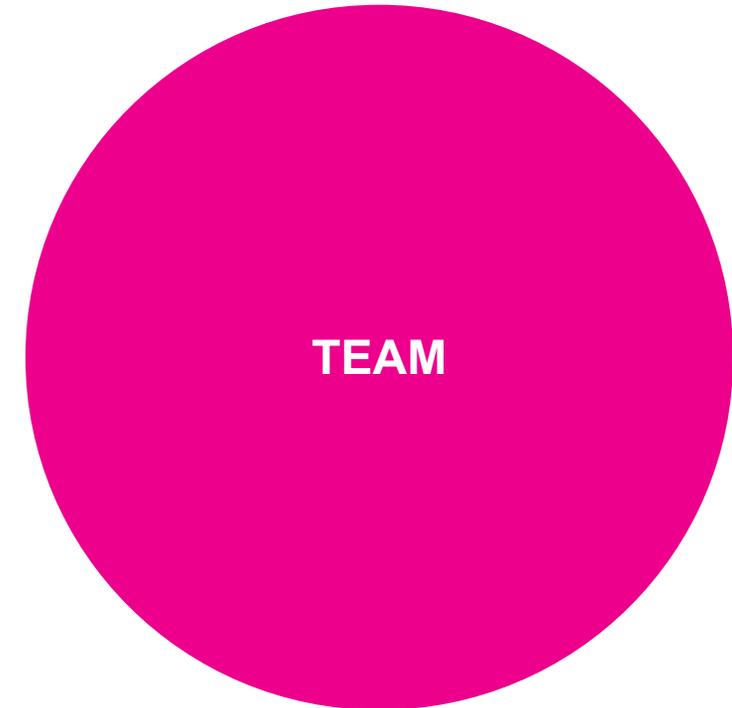
# Making the Journey

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# If You Are Investing In a SOC Team, Do It Differently!

- ▶ Integrate Analysts and Engineers as one team
- ▶ The flexible SOC
- ▶ Use efficiencies to shift workload to proactive tasks
- ▶ Richer job roles lead to lower attrition
- ▶ Reduce the menial tasks, focus on higher value



ELEVATING YOUR LEVEL OF MATURITY

# External Threat Intelligence

- ▶ Make security news collection part of the SOC.
- ▶ Publish advisories internally.
- ▶ Change the work routine of the Analyst.
- ▶ Use feeds in detect mode and potentially block mode.
- ▶ Manage intelligence using a Threat Intelligence Platform (TIP).
- ▶ At a minimum, use intelligence to protect your brand.

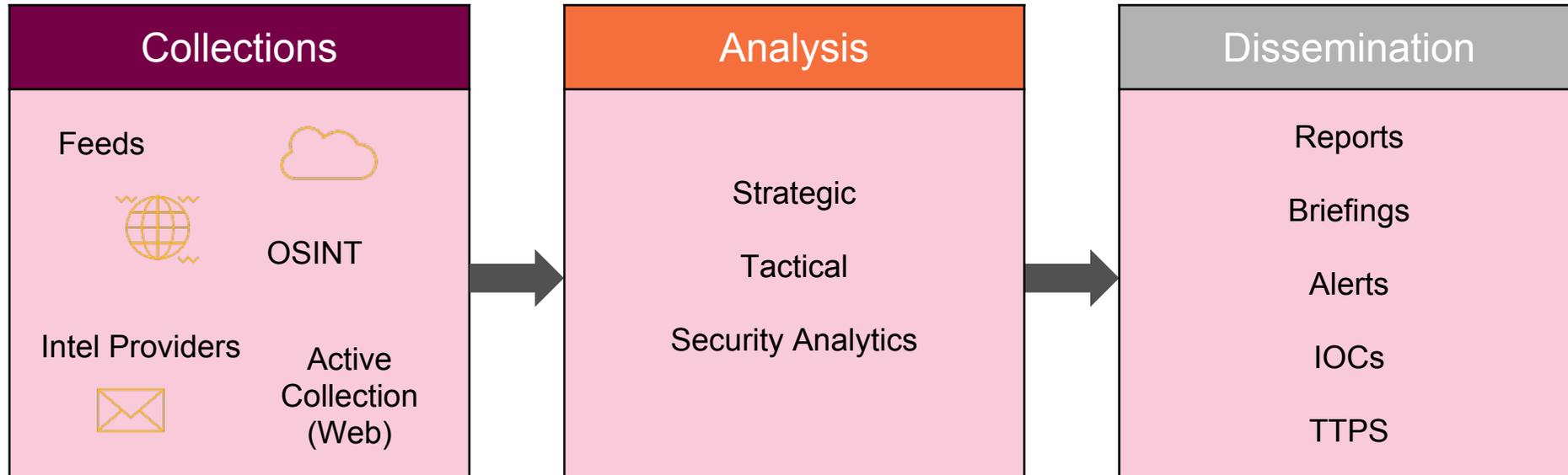


**FUEL PROACTIVE  
THREAT HUNTING**



**ELEVATING YOUR LEVEL OF MATURITY**

# Threat Intelligence



# Security Orchestration and Automation

- ▶ Enrichment – Add detailed context to alerts for enhanced decision making.
  - Threat Intelligence – Utilize intel data to inform and add context to security alerts.
  - Security Stack Integration – Leverage capabilities from available platforms.
- ▶ Single Pane of Glass – Unified console to perform complete alert triage and analysis processes, knowledge and case management.
- ▶ Efficiency and Consistency – Automate manual processes and workflows to save time and labor and provide a consistent result.
- ▶ End to End Automation – Fully automate complex processes to allow analysts more time to analyze, hunt, and work towards resolution.

# More Offensive Security – Red Teaming or Adversary Emulation

- ▶ Digital transformation is expanding the attack surface.
- ▶ Probe your defenses using the perspective of the enemy.
  - 75% of the vulnerabilities Optiv offensive cyber teams exploited in 2018 were not identified by a vulnerability scanning platform.
  - Focus on expected threat vectors that the cyber attacker will use.
- ▶ Do this as frequently as you can. Such as an always on activity.

# KPI's and Reporting

Business KPIs = Measuring Effectiveness. SLA's = Accountability

- ▶ **Likelihood of a successful attack**  
Likelihood will be assessed based on the security profile of each business unit determined by the coverage and settings of security controls. Other components may be added by the client.
- ▶ **Impact**  
Impact of events during the period measured by impact to Confidentiality / Integrity / Availability for a defined asset that the security stack can protect.
- ▶ **Time to detect**  
Measures the delta between the event being logged and an incident case being created.
- ▶ **Time to respond**  
Measures the delta between the case creation and email to the customer with remediation recommendation and the beginning of containment efforts.
- ▶ **Maturity**  
Quarterly ranking maturity of SOC elements such as cyber threat intelligence, red team testing, logging level and accuracy.

THREAT ANALYSIS CASE TYPE	INITIAL ACKNOWLEDGEMENT (PROVIDED IN RFP RESPONSE)	TIME TO RESPOND
Sev1/Critical	30 Minutes	4 Hours
Sev2/High	90 min	24 Hours (1 Calendar Day)
Sev3/Medium	4 Hours	2 Calendar Days
Sev4/Low	16 Hours	7 Calendar Days





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