



The Inevitable Cyber Attack: *From Observation to Remedial Action and Minimizing Dwell Time” In-between*

Presenter

Jon Hamlet – *Senior Country Manager*

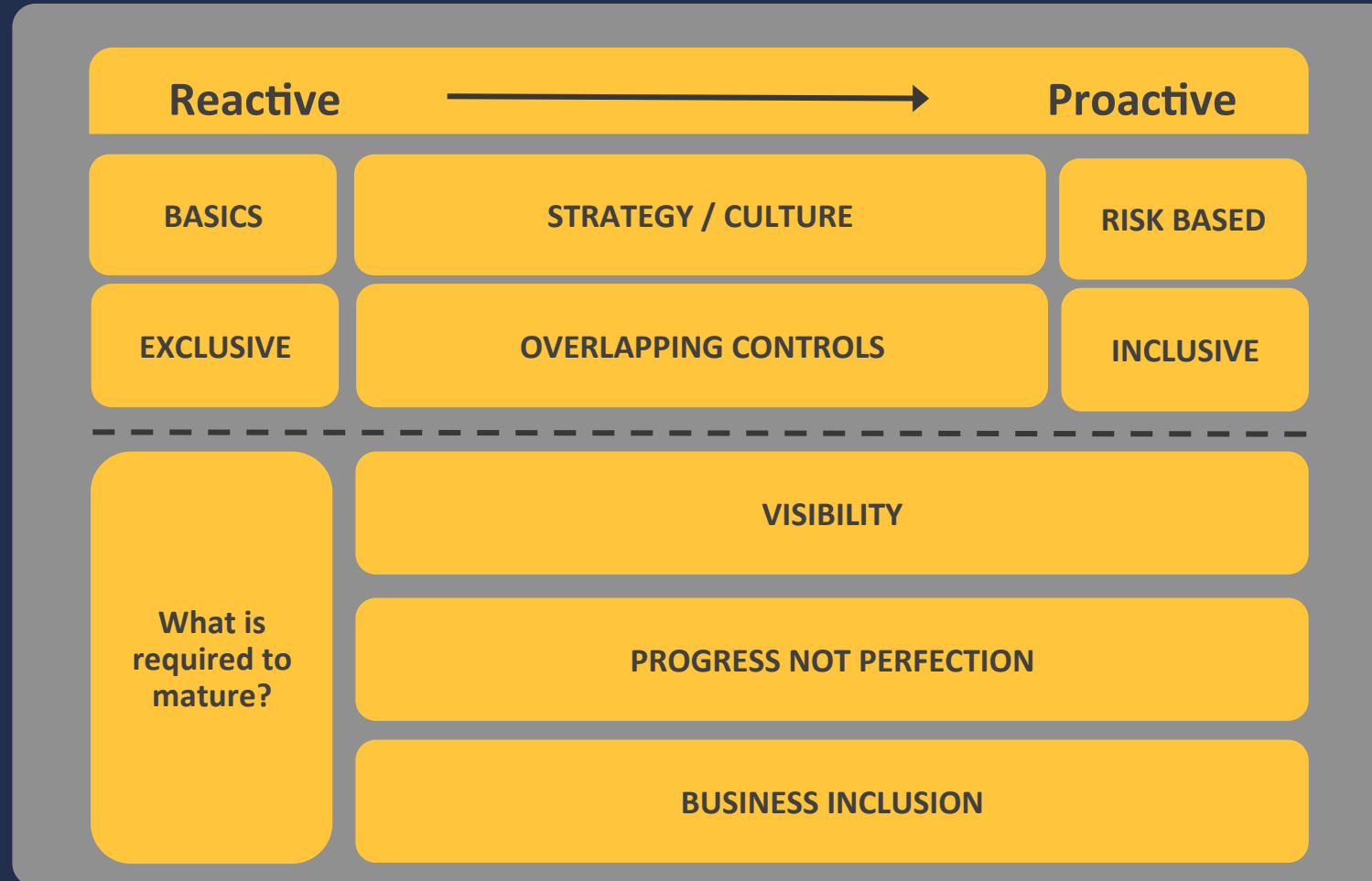
Gareth Hawkins – *Pre-Sales Manager*



Date

22 September 2017

Organizational Security Maturity



Insights

“Dwell Time”
The amount of time between initial compromise and final remediation”



A background image of a Security Operations Center (SOC) with multiple rows of computer workstations and large wall-mounted displays showing various data visualizations like bar charts, line graphs, and network maps.

A Security Operations Center is a **Highly Skilled** team following **Well-Defined Definitions** and **Processes** to **Manage Threats** and **Reduce Security Risk**

Haider Pasha, CISSP, C|EH
Chief Technology Officer
Emerging Markets

Key Security Challenges

Security Operations Center



CONCERNS

Scaling for Growth

Data Protection & Compliance

Limited Cyber Security
Threat Intelligence & Analytics

SOC Implementation
Methodology



REQUIREMENTS

Outsource vs. Co-Source
of Security Operations

Enhancing Visibility

Governance & Control

Proactive Threat
Detection, Prevention, &
Response



SOC FOCUS

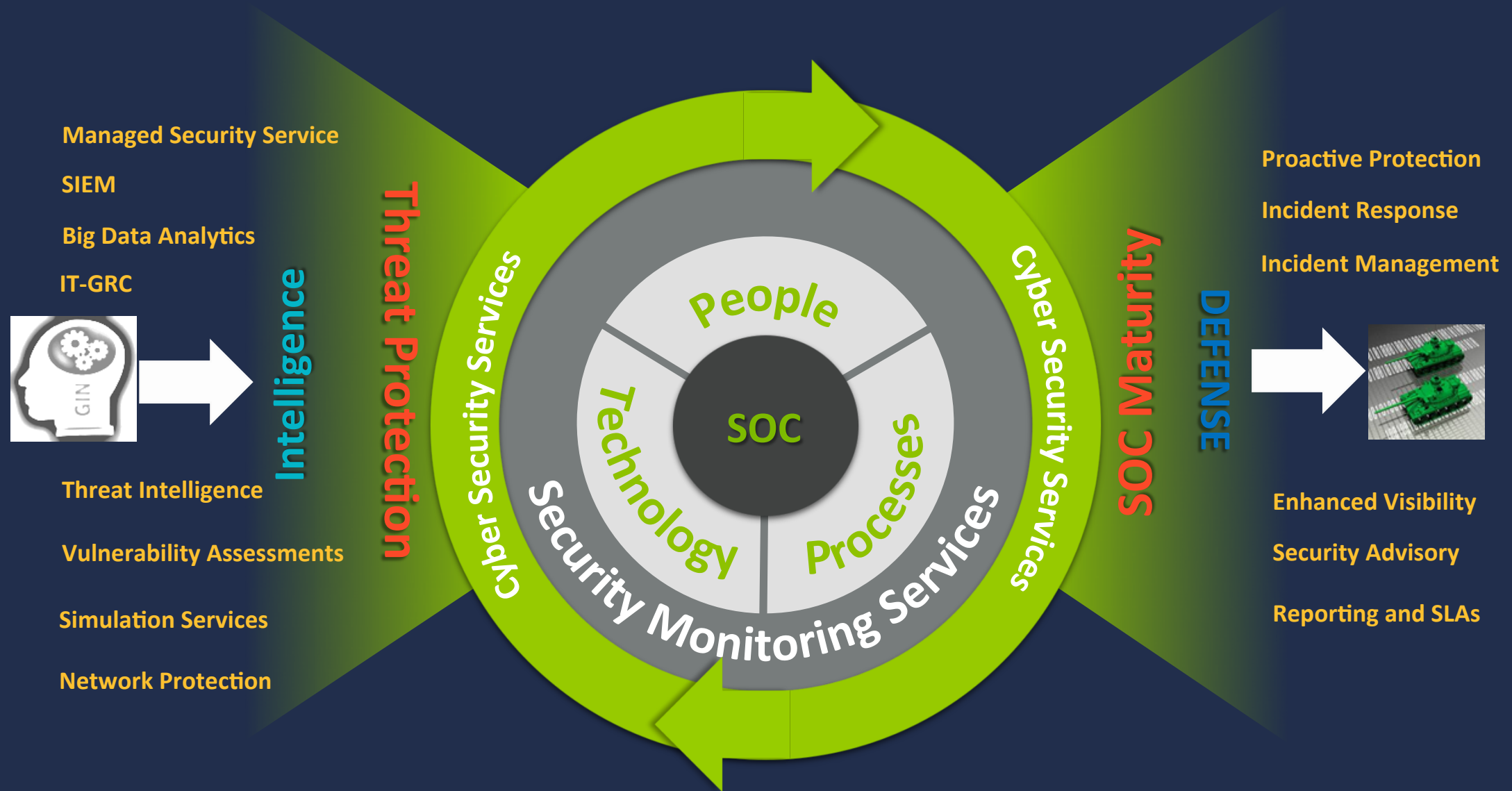
Threat Protection

Threat Monitoring and
Operations

Intelligence & Incident
Response

Security Analytics

SOC Vision



Security Management Consideration

Insourcing

Cost
High CAPEX
Variable OPEX

Control
Internal Team Knows Environment
Potentially Most Efficient
Complex to Manage

Time
People Recruitment, Tools Procurement &
Configuration

Staff
Hard to Acquire, Retain, Train

Risk
High Risk – Mitigated with Augmentation
Assigned to End-User

Outsourcing

Cost
Low CAPEX
Predictive OPEX

Control
Lack of Environment Knowledge by 3rd Party
SLA Based Services
Difficult to Terminate / Change

Time
Handover, Service Definition and SLA
Measurement

Staff
3rd Party Responsibility

Risk
Medium Risk
Assigned to the Provider

Co-sourcing

Cost
Moderate CAPEX
Predictive OPEX

Control
Benefits of Local Knowledge and 3rd Party
Expertise
Partial SLA Service
Flexible Future Change

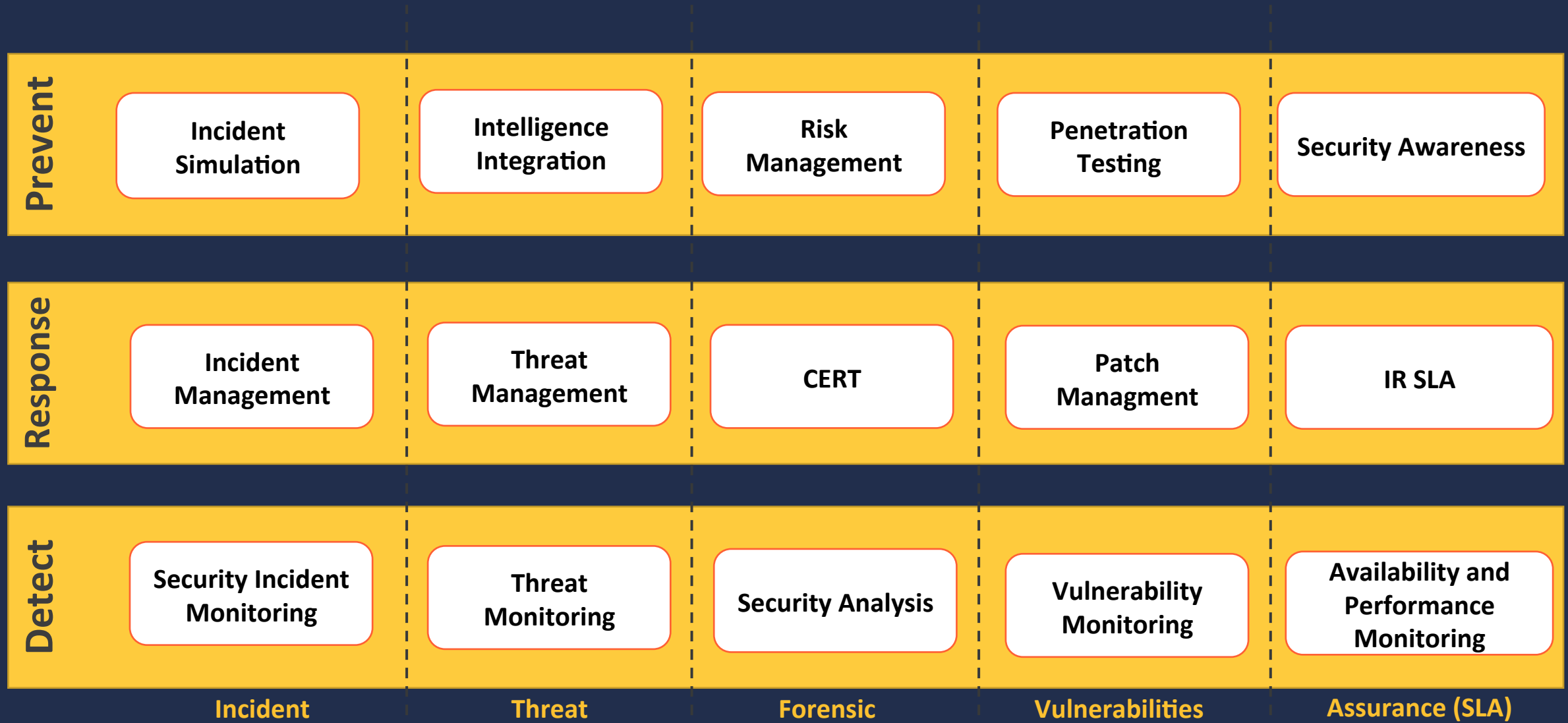
Time
Blended Approach

Staff
Staff Augmentation

Risk
Lowest Risk;
Shared Between Companies

Process

SOC Framework Best Practice



SOC Methodology

Conduct health-check and preventive maintenance for all security systems

Implement new Security Policy on the managed devices following the agreed process

Perform Change & Configuration Management through RFC&MDT process



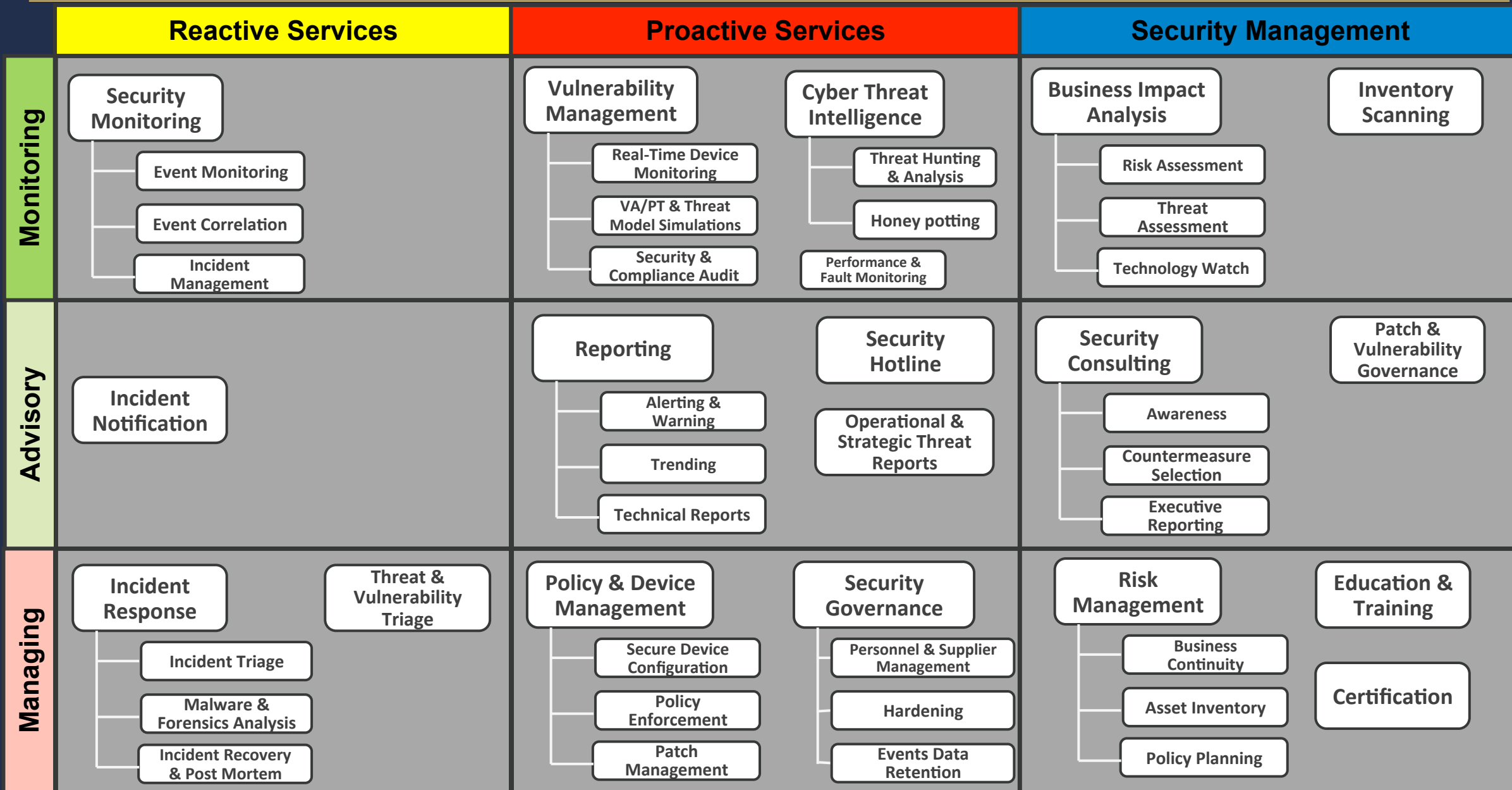
Analyze Security Systems logs for any security threats and take proper action accordingly

Provide 1st & 2nd level of support for the security incidents

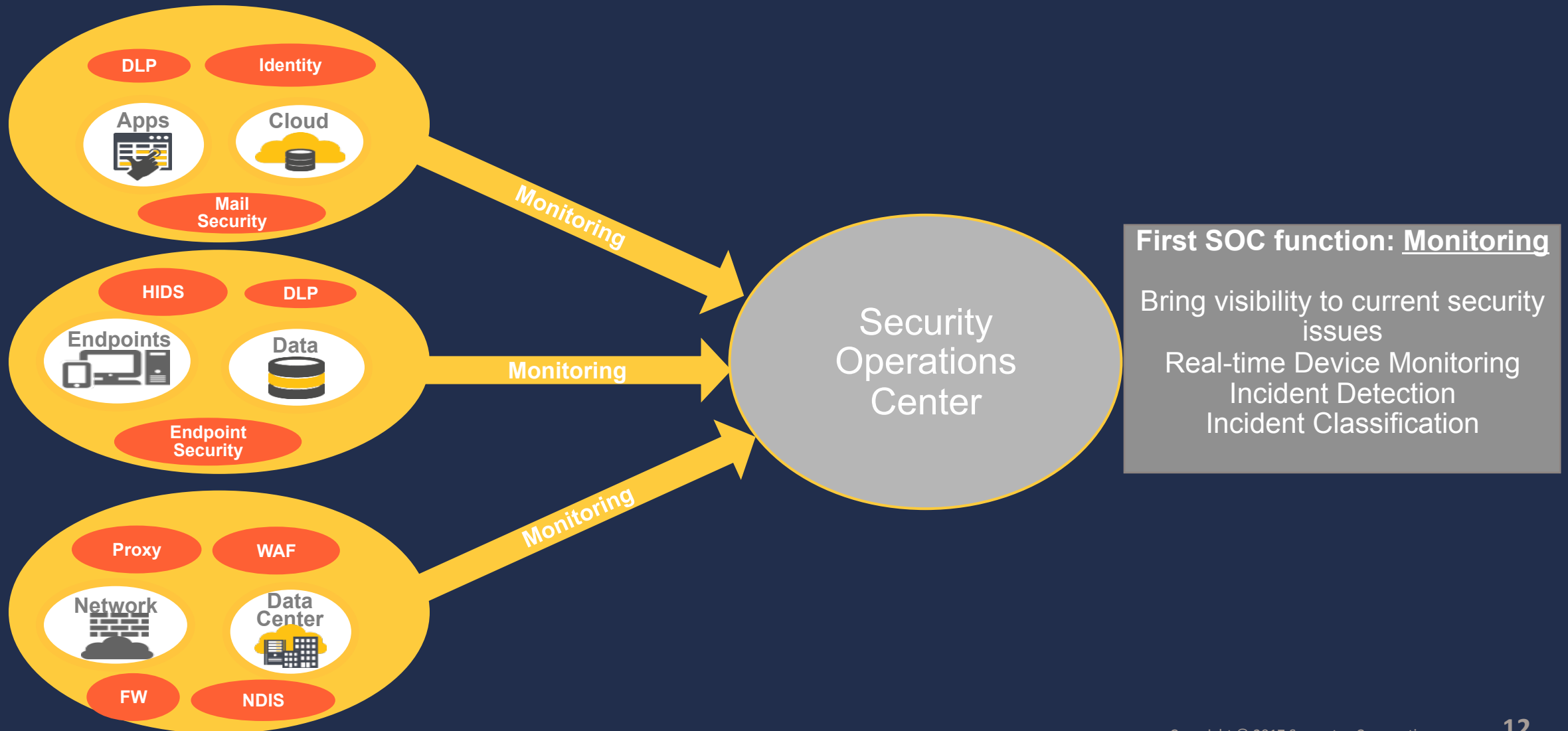
Supporting other Security departments during the incident handling process

SOC Service Catalog

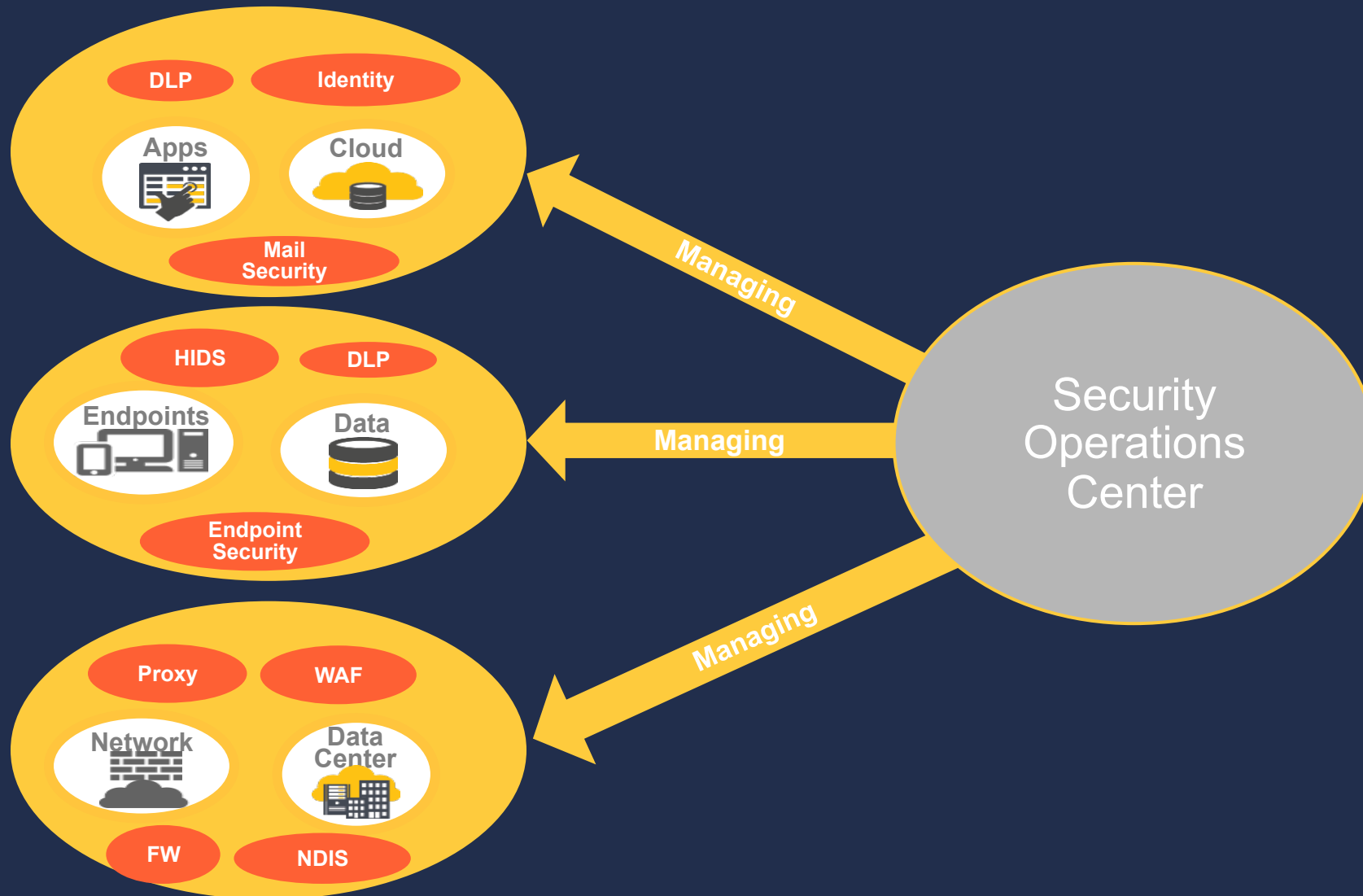
"Define your security services menu"



A Simplified View



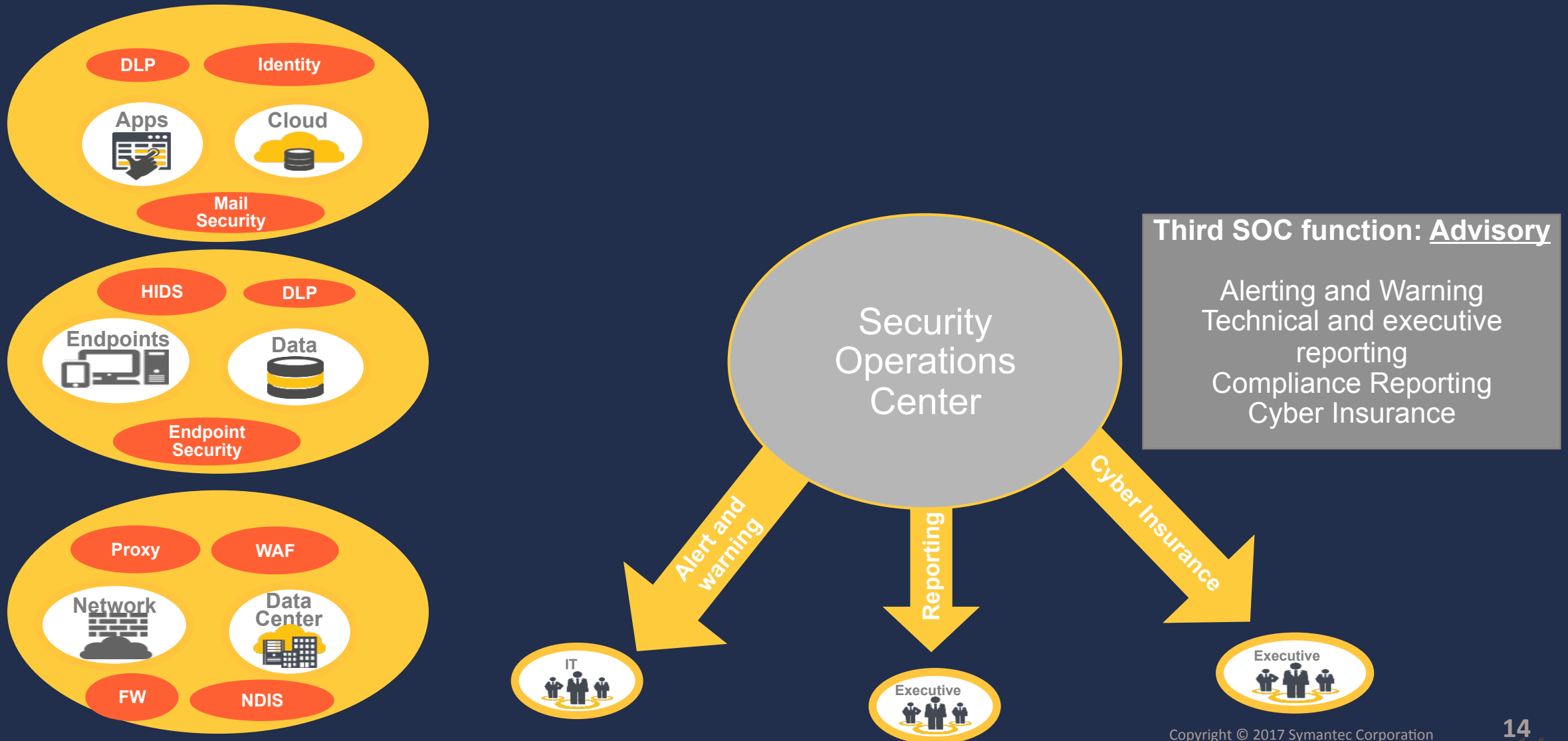
A Simplified View



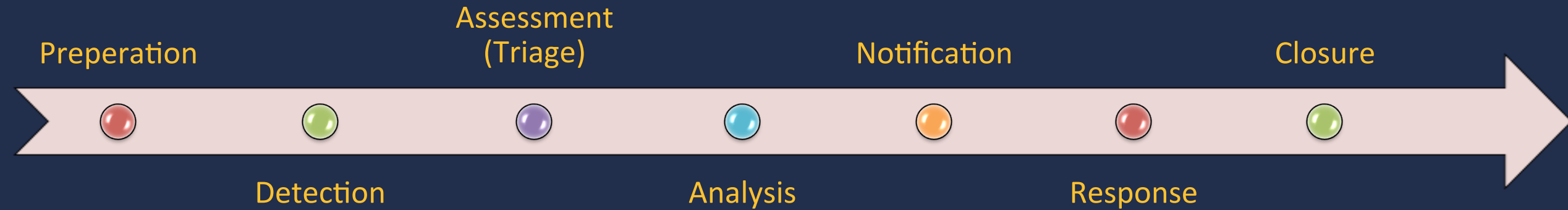
Second SOC function: Managing

Policy Management
Policy Enforcement
Incident Remediation
Managed Network Security
Managed Endpoint
Managed Messaging
Advanced Threat Protection
Risk Management
Cyber Resilience

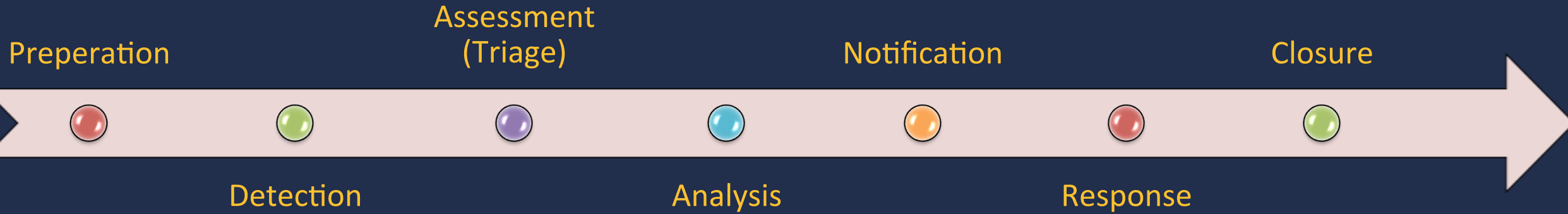
A Simplified View



Incident Handling Methodology



REDUCING DWELL TIME?



Threats Events Infrastructure **VISIBILITY** Response Efficacy Audit GRC

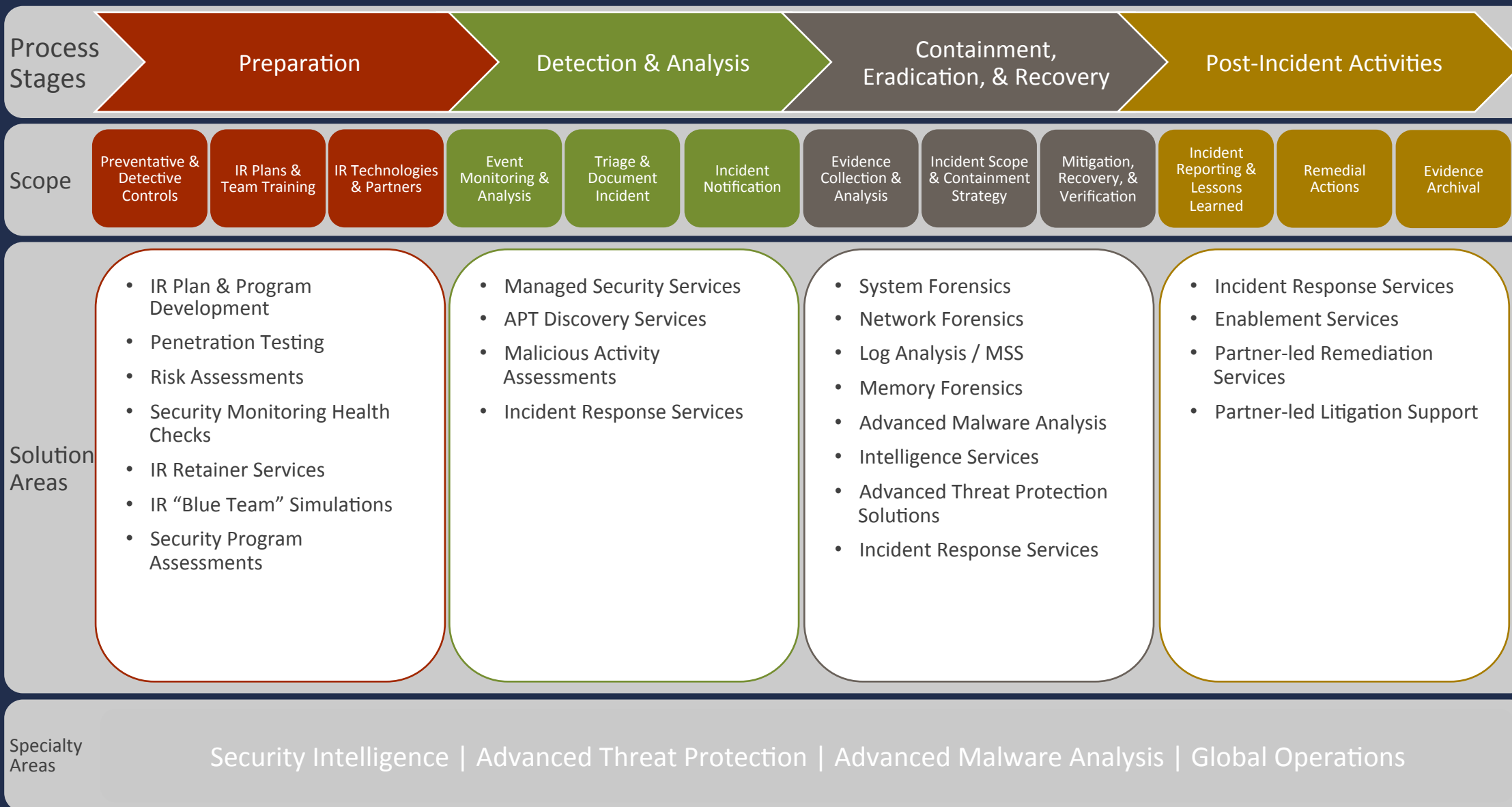
Vulnerabilities Cloud Changes Workbench Closed Loop Remediation Repositioning

WELL DEFINED PROCESS – RESPONSES ACROSS THE BOARD

Reduced Noise **INTEGRATED TECHNOLOGY (OPEN SYSTEMS)** GLOBAL

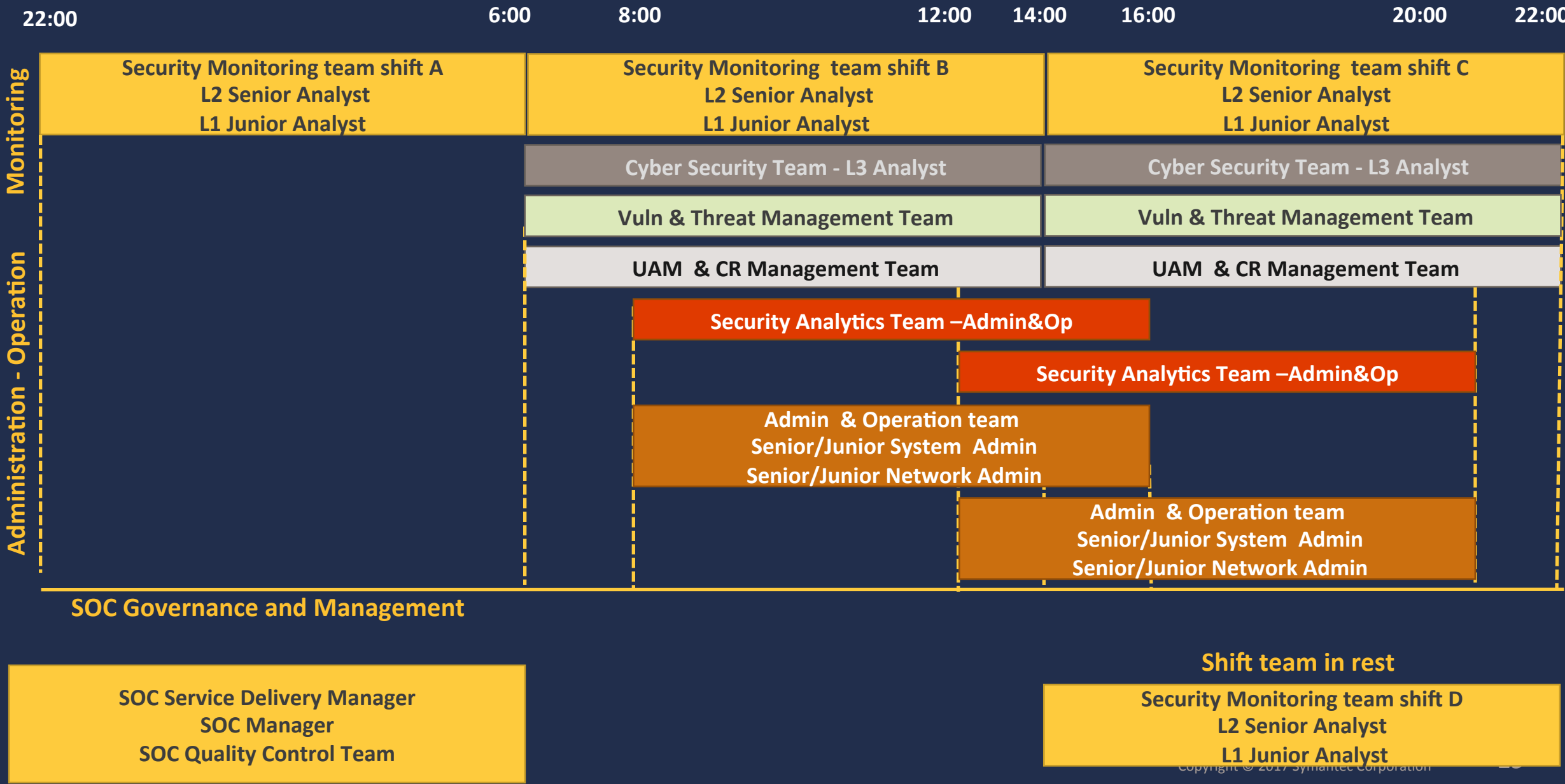
Shared Threat Intelligence Orchestration Automated Remediation Bidirectional Closed Loop

Incident Response Process Framework

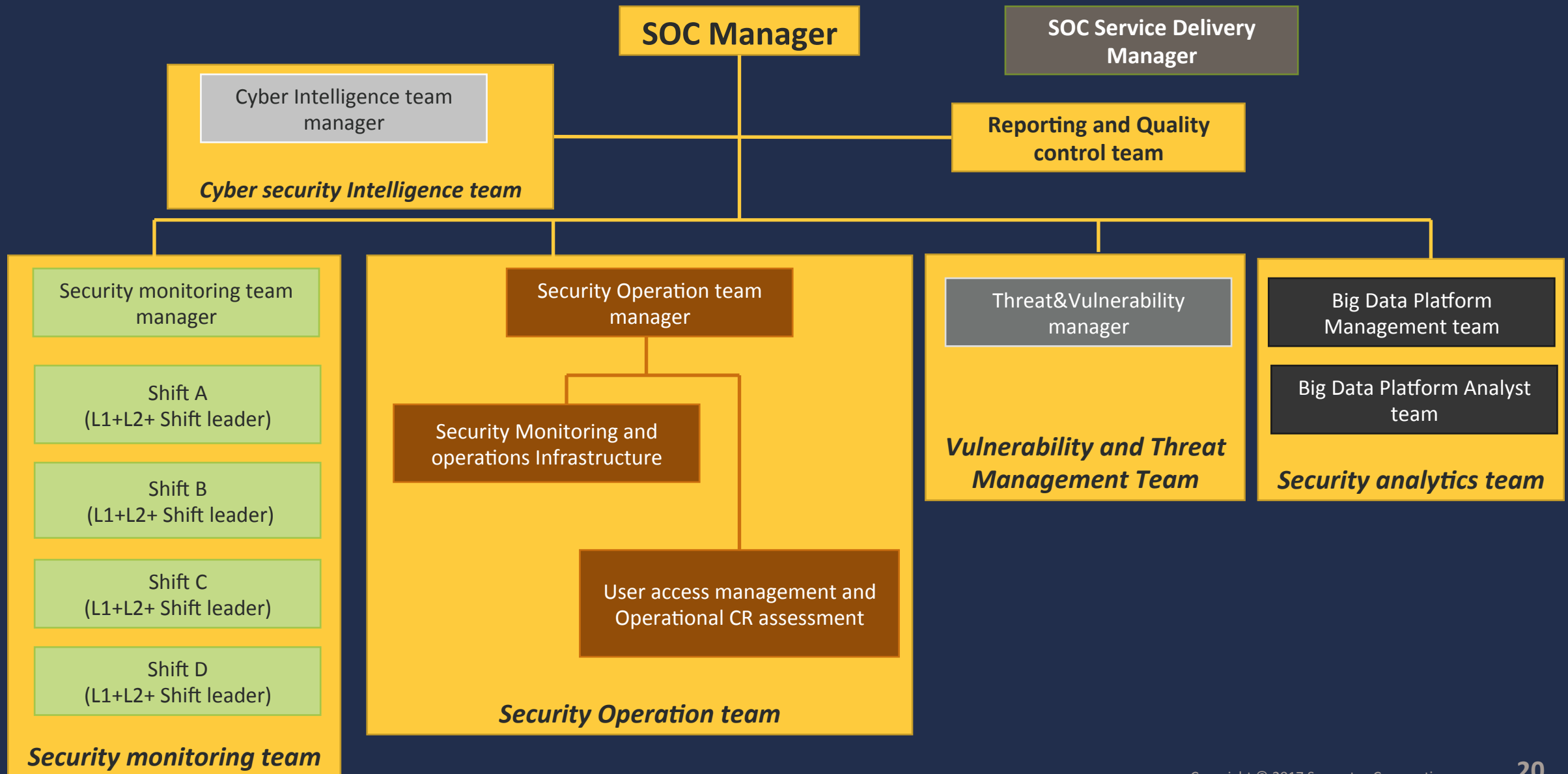


People

PEOPLE: 24/7 SOC Shift Example

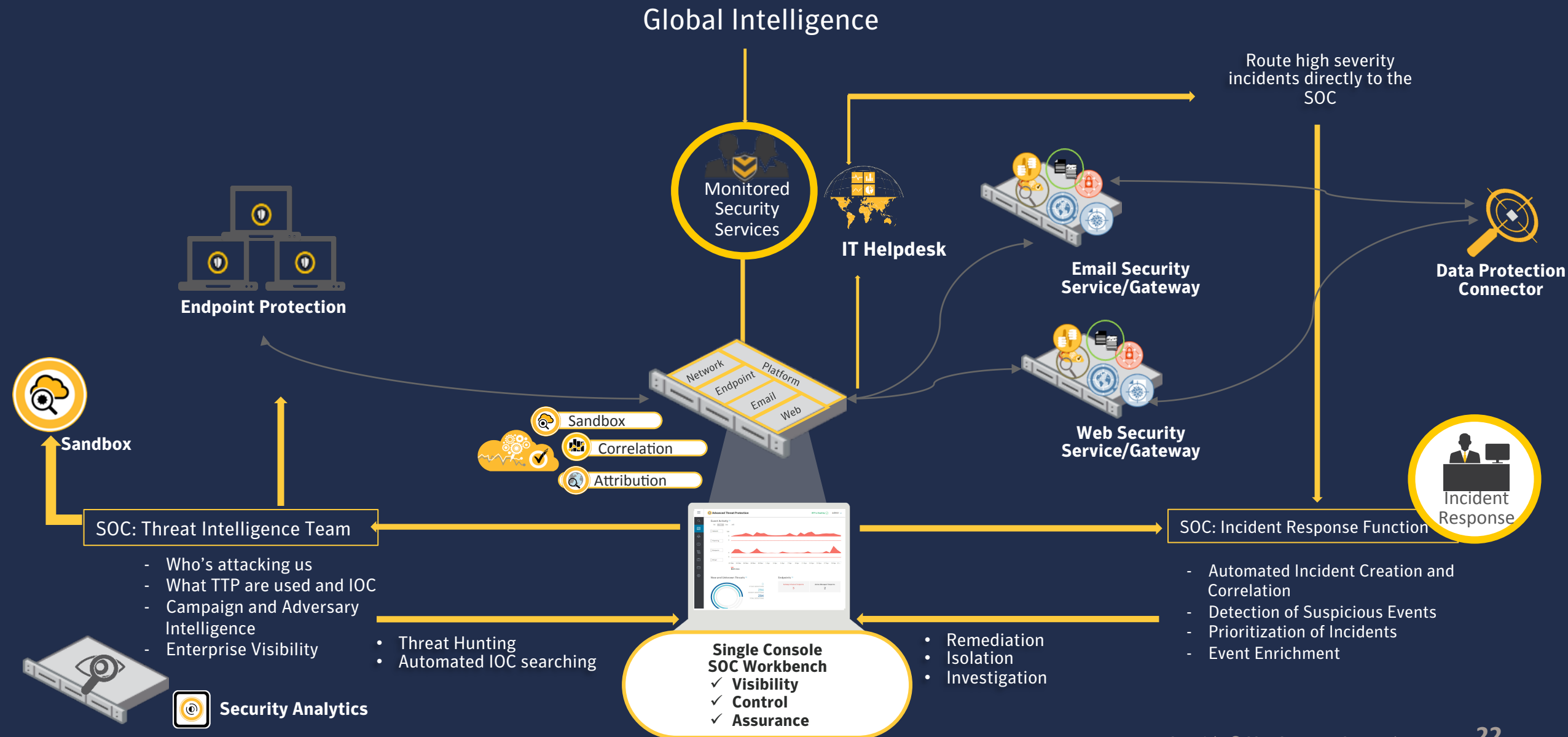


Typical SOC Team Structure

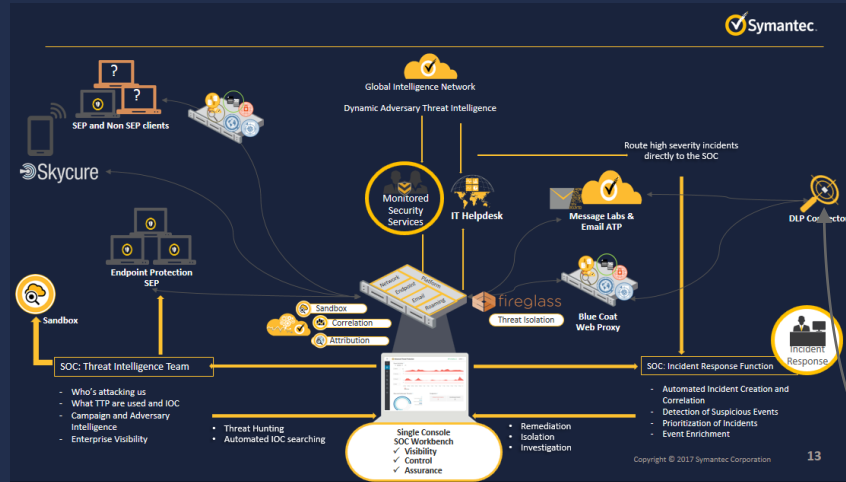


Technology

Integrated Threat Protection: SOC Workbench



Integrated Information Protection: SOC Workbench



Corporate SaaS Apps



Email



Web & Internet



Web Proxy

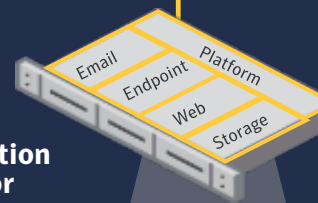


Data at Rest

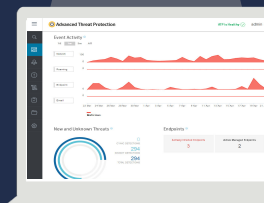


Endpoint

IT Helpdesk



Data Protection Connector



Single Data Protection Console
 ✓ Visibility
 ✓ Control
 ✓ Assurance

Integrated Information Protection Controls

Shadow IT Visibility & Control

Tagging & Encryption

Identity & Authentication

Data Protection: Incident Response Function

- Automated Incident Creation
- Universal policy deployment
- Single enforce platform

- Remediation
- Investigation

- Each SOC project is a journey. Get the required buy in.
 - *Projects require a considerable amount of time and money.*
- Hybrid approach can massively speed up the time to service delivery.
 - *Consider adopting an MSSP even as a temporary solution*
- Define Service Catalog Carefully.
- Implement baby steps: do few things well.
 - *Do not oversell SOC mission and implement the basics right.*
- Do not ingest any data: clearly define your use cases.
- Get the right staff in place.
 - *Motivate them, motivate them, motivate them.*

