



THE LEADER IN **SECURITY OPERATIONS**

SETUP AND OPERATING A SECURITY OPERATIONS CENTER Dos and Don'ts and Best Practice

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Agenda

- 01** Current Cyber Threats & Challenges
- 02** Building Blocks for Cyber Defense
- 03** State of the art Security Protection
- 04** How to measure and improve Cyber Security
- 05** Typical inhouse SOC setup fails





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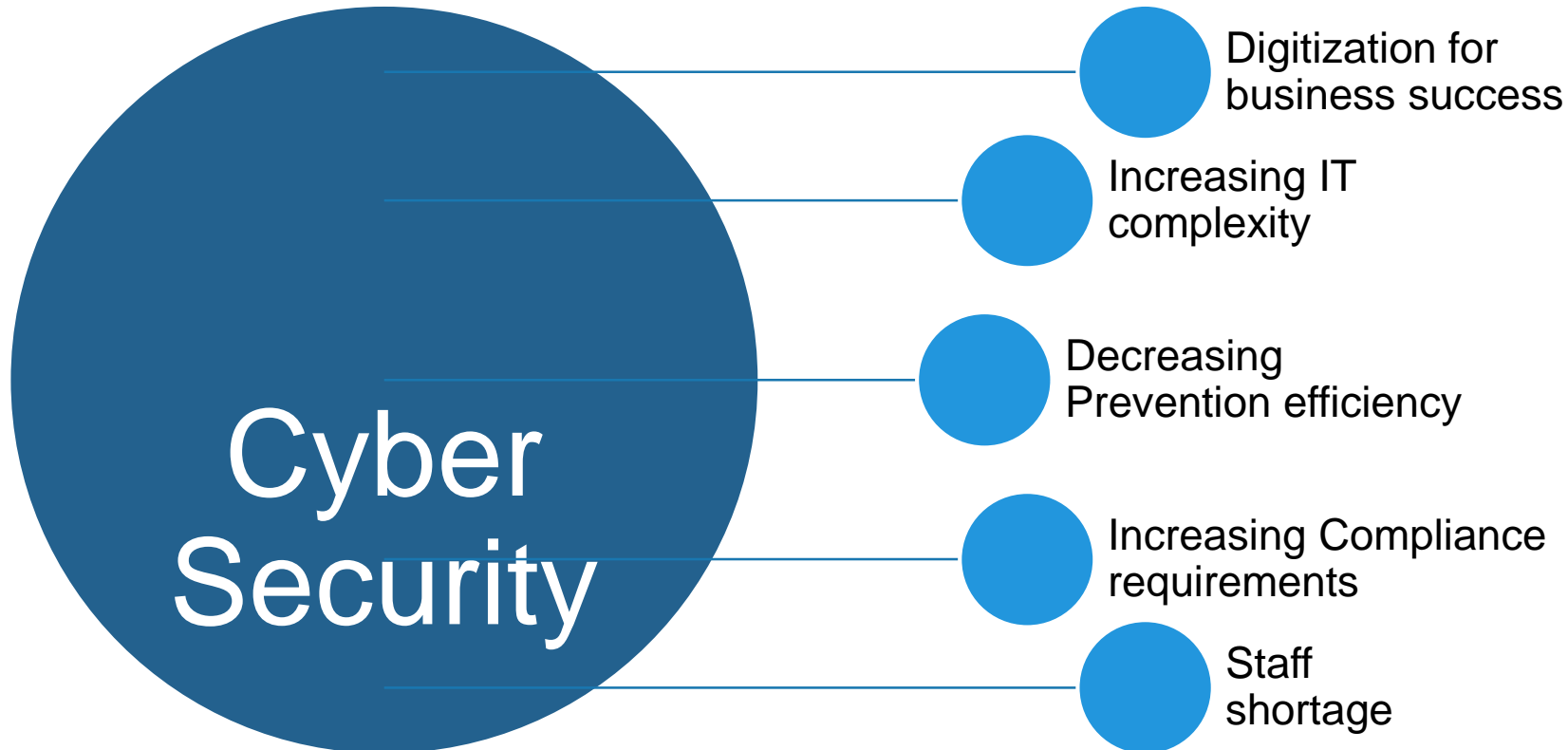
01

Current Challenges & Threats

in Cyber Security

Drivers in Security & Challenges

Security is often considered as a “just” technology follower...



“ Cyber security prevention products lacking efficiency

“ cybersecurity industry has an effectiveness problem

“ There is no 100% prevention, assume breach

“ Security relays on humans



Current Cyber Security Threats

Most of them are very hard to prevent, which makes them so successful



Phishing likes COVID-19



Leaked Passwords



Remote Work Exploitation



Zero-day exploits



Business Email Compromise



Deepfakes & Identity Theft



**Ransomware Attacks and
Double Extortion**



Cloud Breaches / Takeovers

... **to be continued**





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02

Building Blocks for Cyber Defense

Cyber-Defense @ Arctic Wolf

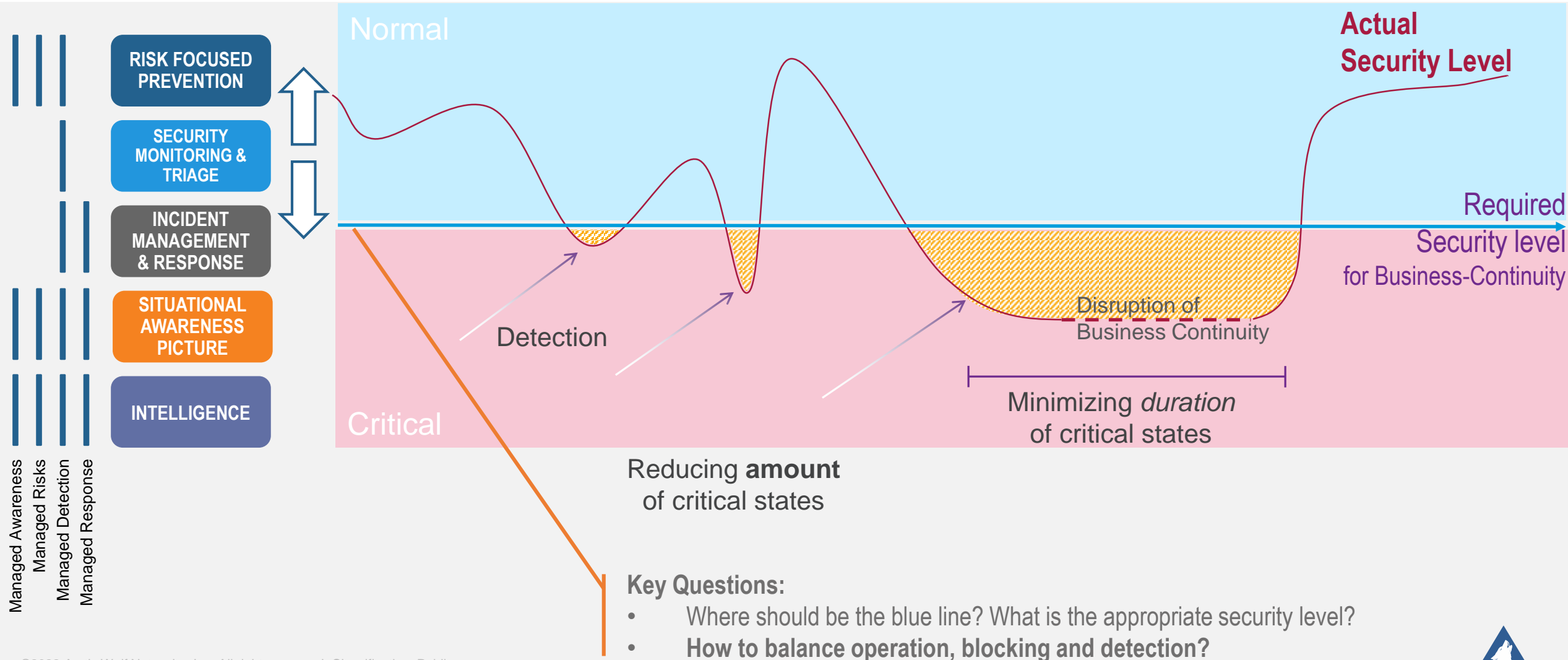
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THREE WORLDS, THREE PERSPECTIVES, BUT ONE GOAL



General Cyber Defence Strategy

AWARENESS, PROTECTION, DETECTION, REACTION, RESILIENCE





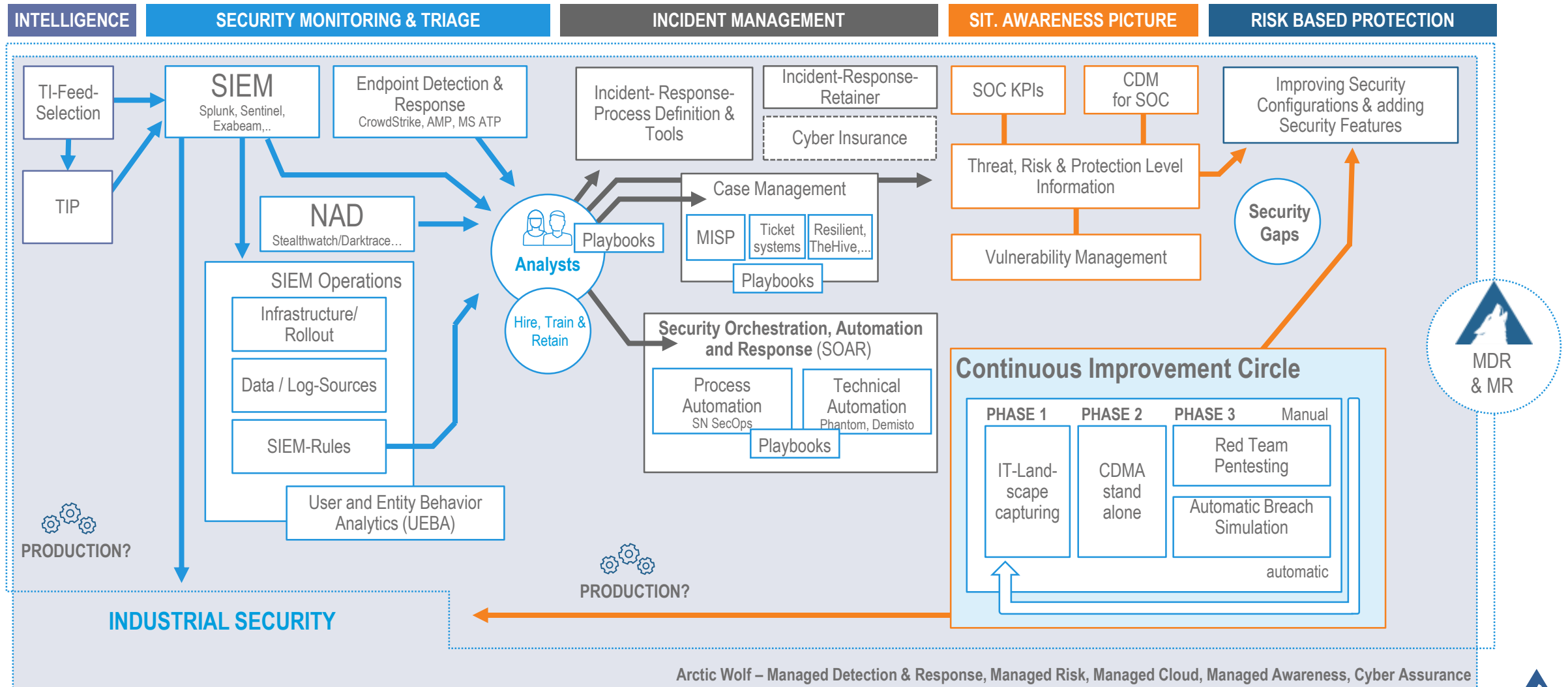
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03

State of the art Security Protection

Cyber Protection – Building Blocks you need to cover

STATE-OF-THE-ART CYBER DEFENCE



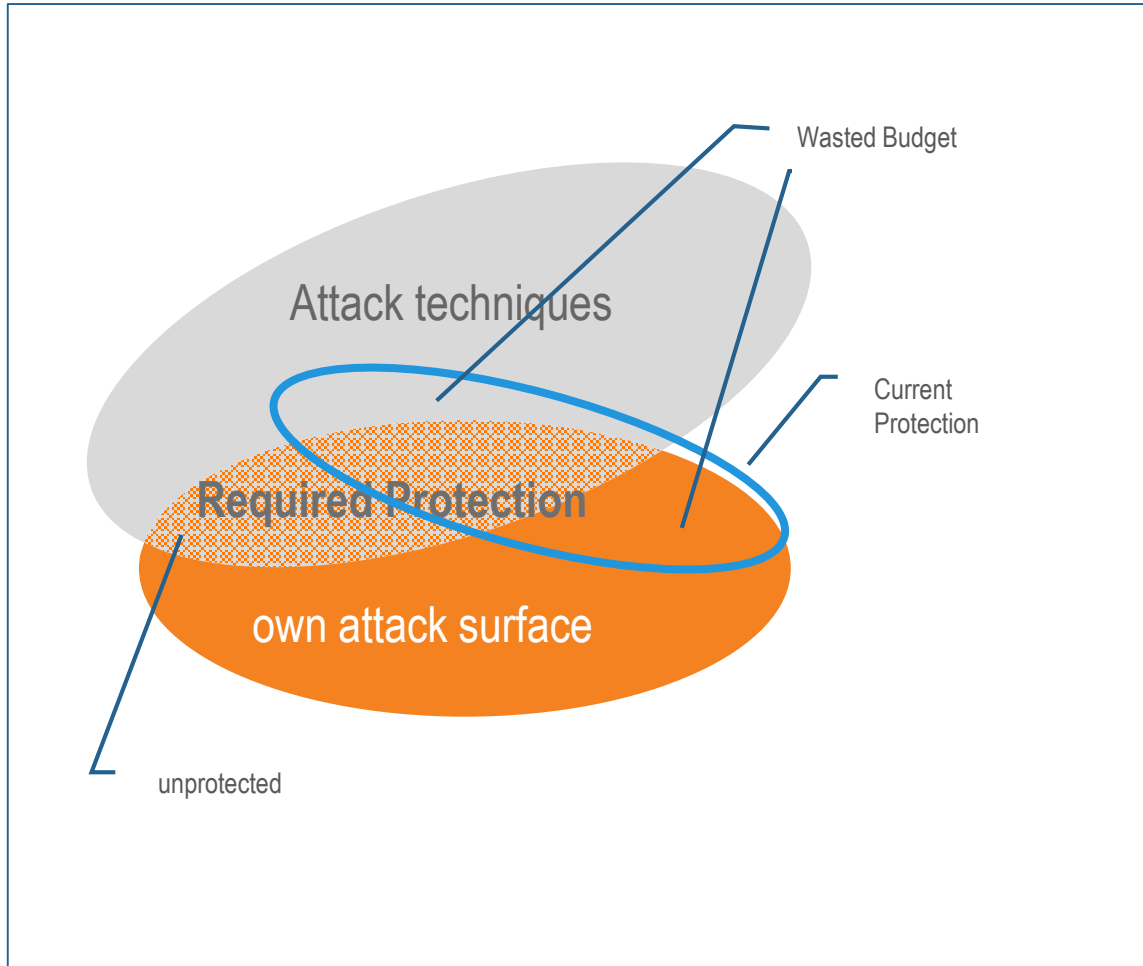
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How to measure and improve your Cyber Security

Cyber Defense Maturity – Security Journey

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Adapting security to the required scope



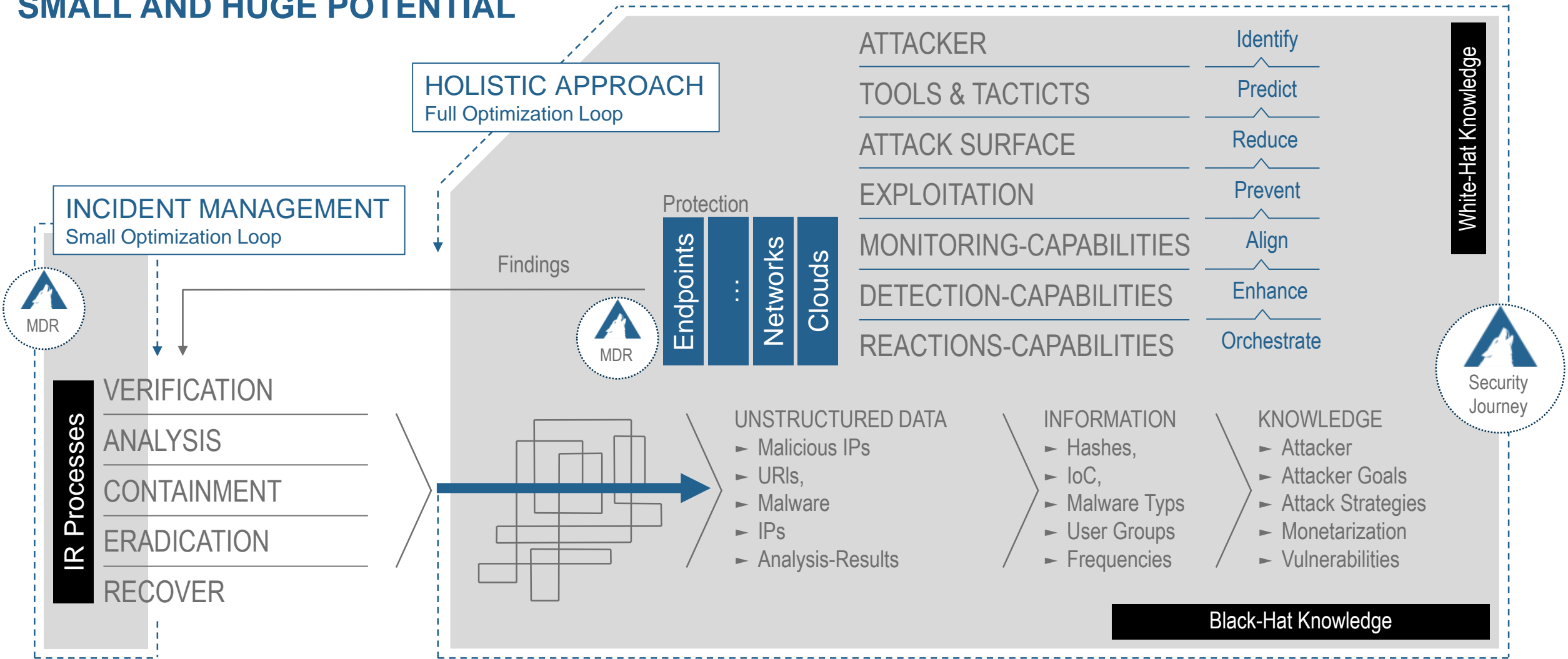
- **If you know**
 - the threats,
 - the attacker,
 - used techniques and
 - your attack surface.

→ **adjustment of the cyber protection**



CYBER DEFENSE – TWO OPTIMIZATION LOOPS

SMALL AND HUGE POTENTIAL



05

Typical inhouse SOC setup fails

Stop fiddling and go for a professional service

Typical Shortfalls

1. **Fail to hire & train and retain security analysts**
2. **SOC operation limited Monday to Friday 8am-5pm**
3. **Missing authority and advisory power of the SOC**
4. **Underestimate to integrate the SOC solutions into an efficient SOC stack & processes**
 - Technology integrations
 - Process integrations
5. **Underestimate the effort to fine tune detections capabilities**
 - getting lost in detail
 - Basic monitoring vs. 100% coverage for crown jewels
6. **Lack Threat Intelligence Information and threat sharing**
7. **Incident focused work only, without follow-up and proactive security improvements**
8. **Concentration on point-security-solutions and belief in security vendor marketing**
- ...
999. **Belief that Machine Learning will solve above challenges**



Thank You

**SECURITY IS NOT A CHOICE
IT IS A NECESSITY**

ARCTIC WOLF: *IT'S TIME TO END CYBER RISK*

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