



Experience the commitment®

Cyber Security Center

CGI Cybersecurity

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 JMickos #CyberSecurity #Kyberturvallisuus

www.cgi.com/cyber

www.cgi.fi/kyber



CGI in Cybersecurity



35+ years of experience

in information security across
government and commercial sectors.

3 accredited test

facilities Canada, US and UK

1700 cyber

professionals globally

8 Security Operations

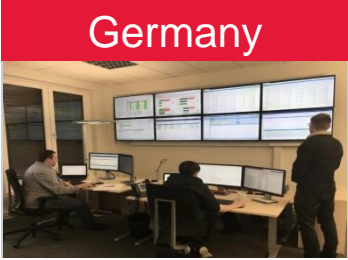
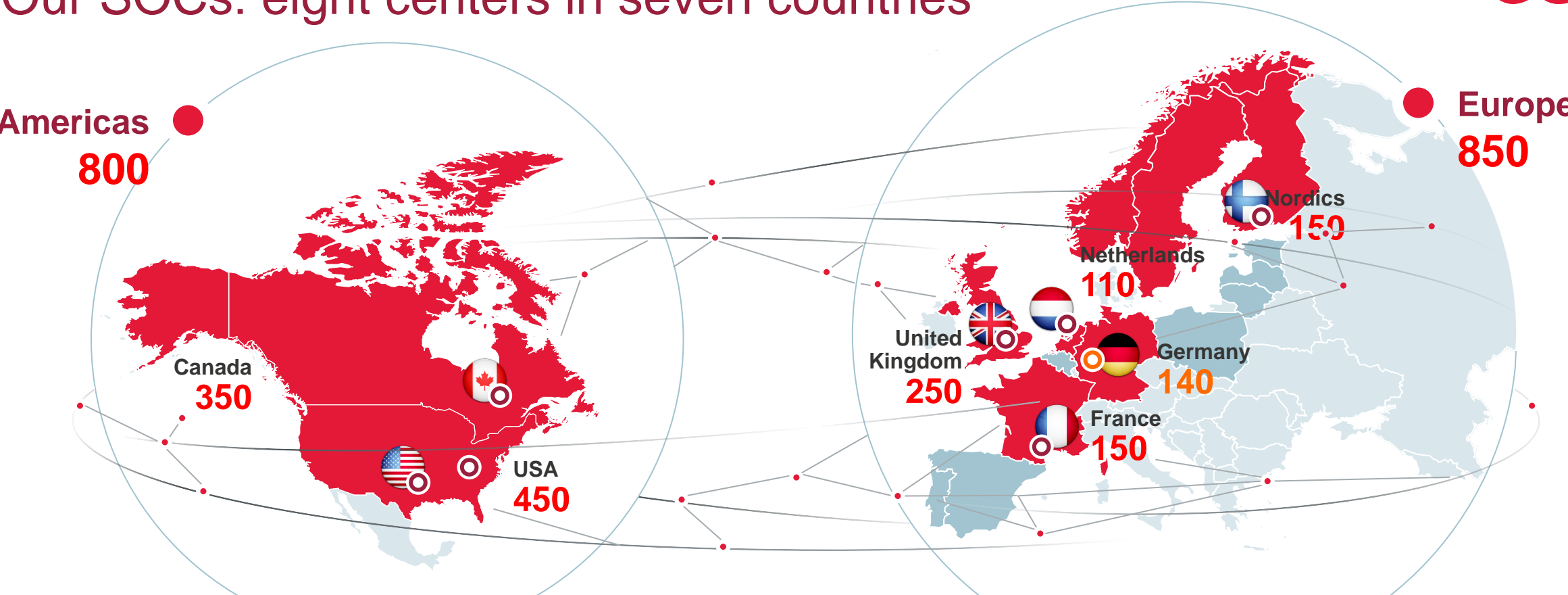
Centers globally

Independence in technology,
delivery, service model and
operations

Tested and proven in some of
the world's most sensitive and
complex environments

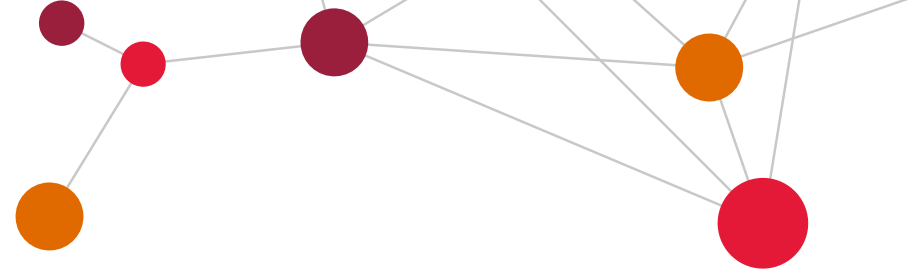
**We help businesses and government clients to assess the risk, protect the business
and operate with confidence in the digital world**

Our SOC's: eight centers in seven countries





The importance of "Cyber hygiene"



>95%

of all cyber threats is
commodity malware and
phishing

83%

of incidents happen
because of bad
cyber hygiene

...brush your teeth and wash your hands after flushing

Modern Cybersecurity Operations

- The modern cyber security program must reflect an elevation in strategic position and intent within the business. It must also move beyond a traditional “defensive” mindset to improved detection and response capability.
- We must move from a compliance-driven approach to a risk-driven approach – build a proactive capability based on a specific risk profile and not on a generic set of compliance standards.

IDENTIFY

Develop the organizational understanding to manage cybersecurity risk to systems, assets, data, and capabilities.

PREVENT

Develop and implement the appropriate safeguards to ensure delivery of critical infrastructure services.

DETECT

Develop and implement the appropriate activities to identify the occurrence of a cybersecurity event.

RESPOND

Develop and implement the appropriate activities to take action regarding a detected cybersecurity event.

STRATEGIC ELEVATION (POLICY, GOVERNANCE, TRAINING & AWARENESS....)

On the other hand...

40%

of cyber campaigns
targeted manufacturing
and service companies

80%

of all breaches
originate from the
supply chain

90%

of most serious attacks
against critical infra is
nation state sponsored

Impact of a cyber breach



In extreme cases, cyber breaches have reduced a company's value by

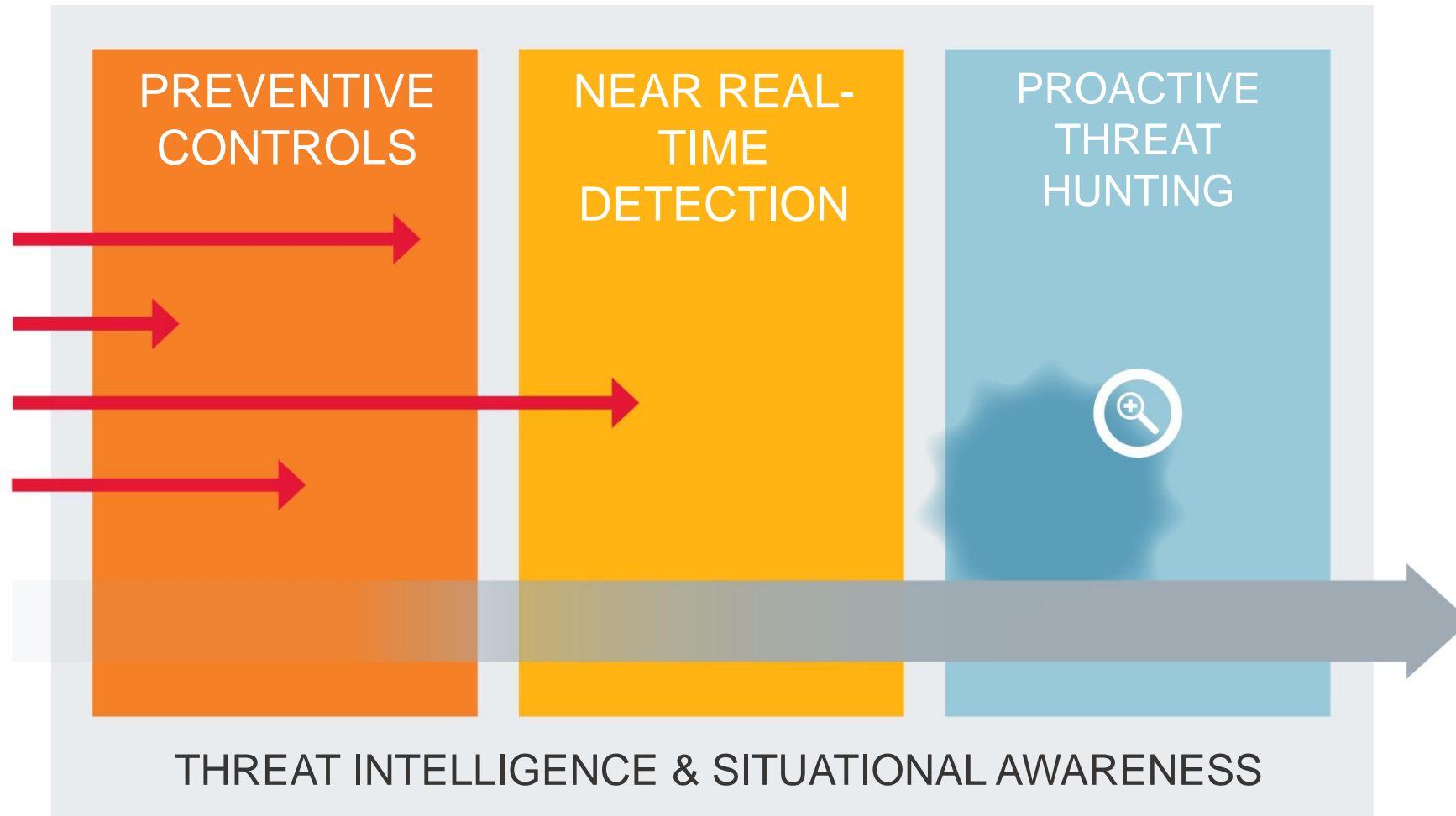
15%



Following a security breach, underperforming companies suffered an average share-price reduction of 2.3% — compared to 1.1% for high-performing organisations

Source:
The Cyber-Value Connection,
CGI and Oxford Economic

The Security Operations we need today



Threat Intelligence Analysis

COLLECT

ANALYZE

VALIDATE

DEPLOY

VERIFY

GATHER AND ANALYZE

- All-source
- STIX / TAXII and Proprietary
- Machine / Human readable
- IoA / IoC / TTP
- Behavioral or Static

SECURITY OPERATIONS

- Select Intel based on Objective and Reputation
- Validate and Test (Hunt Search)
- Contextualize
- Feed to SIEM and IRP
- Develop Use-Cases

VALIDATION, VERIFICATION AND FEEDBACK LOOP

- Conduct Triage and Incident Analysis
- Verify Intel
- Feedback on source and item reputation

OUR APPROACH

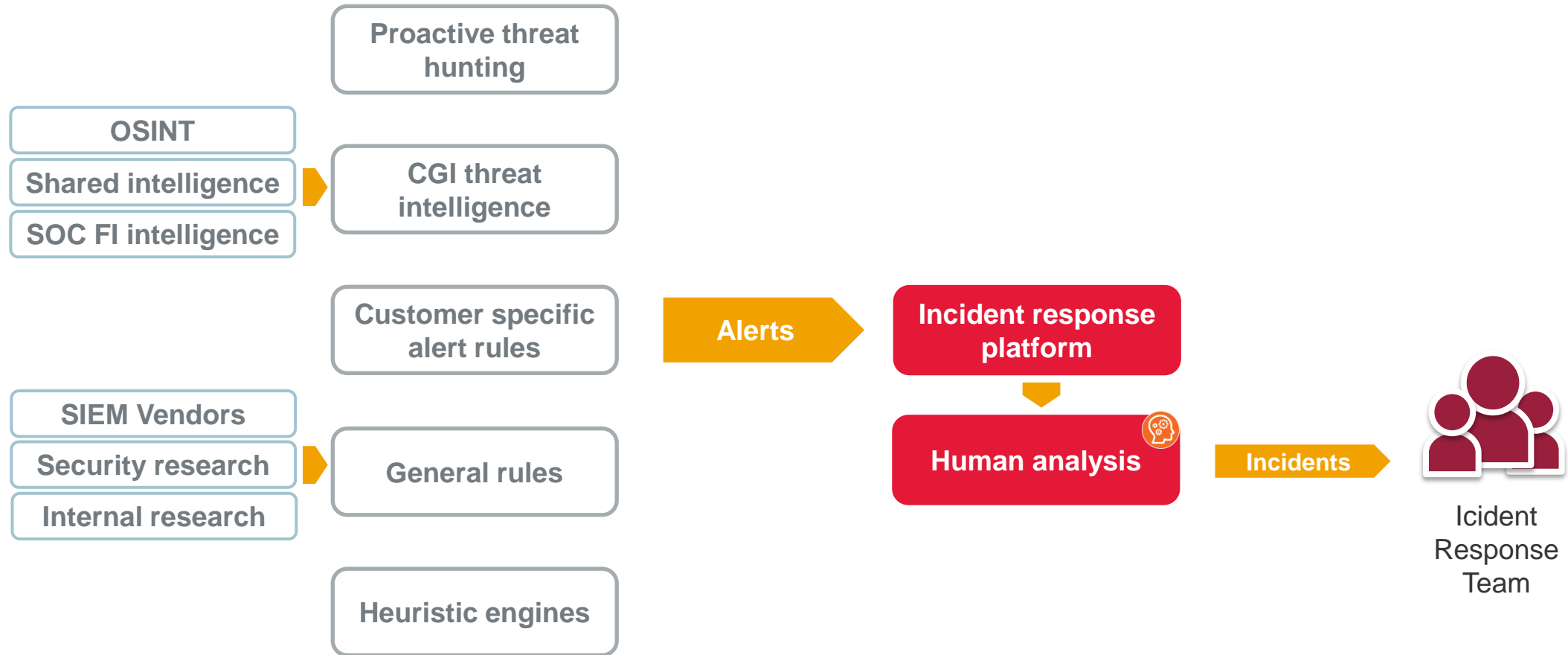
We collect Threat Intelligence from a wide range of sources

1. Open Source Threat Feeds
2. Partner and Vendor Threat Feeds
3. Commercial Threat Feeds
4. National Authorities Threat Feeds
5. CGI Internal Threat Feeds

The use of Threat Intel ranges from raising awareness of Analysts to automating responses based on known IoA's and IoC's.

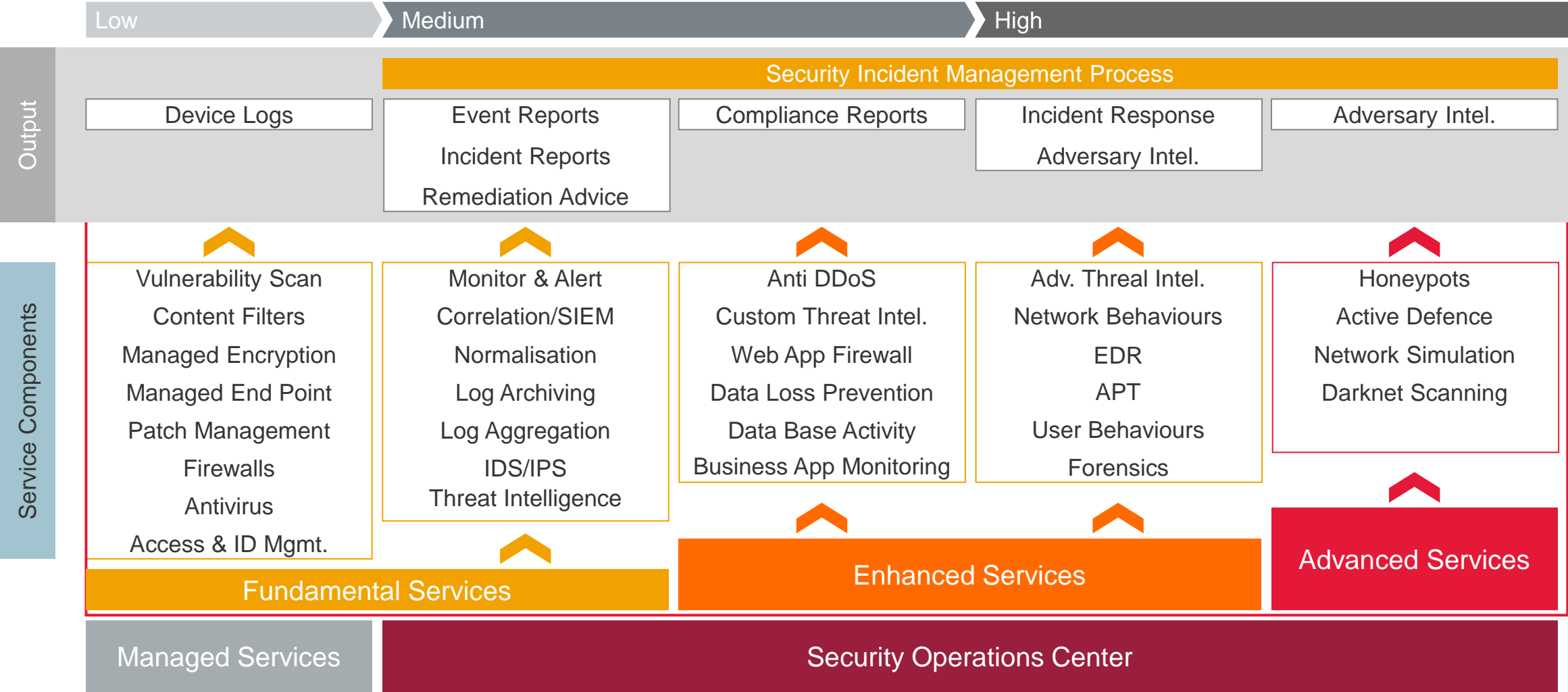
We enhance the Intelligence based on feedback from Security and Hunting Operations, refining and creating new Threat Intelligence to share with our network of trusted partners.

Triage and analysis

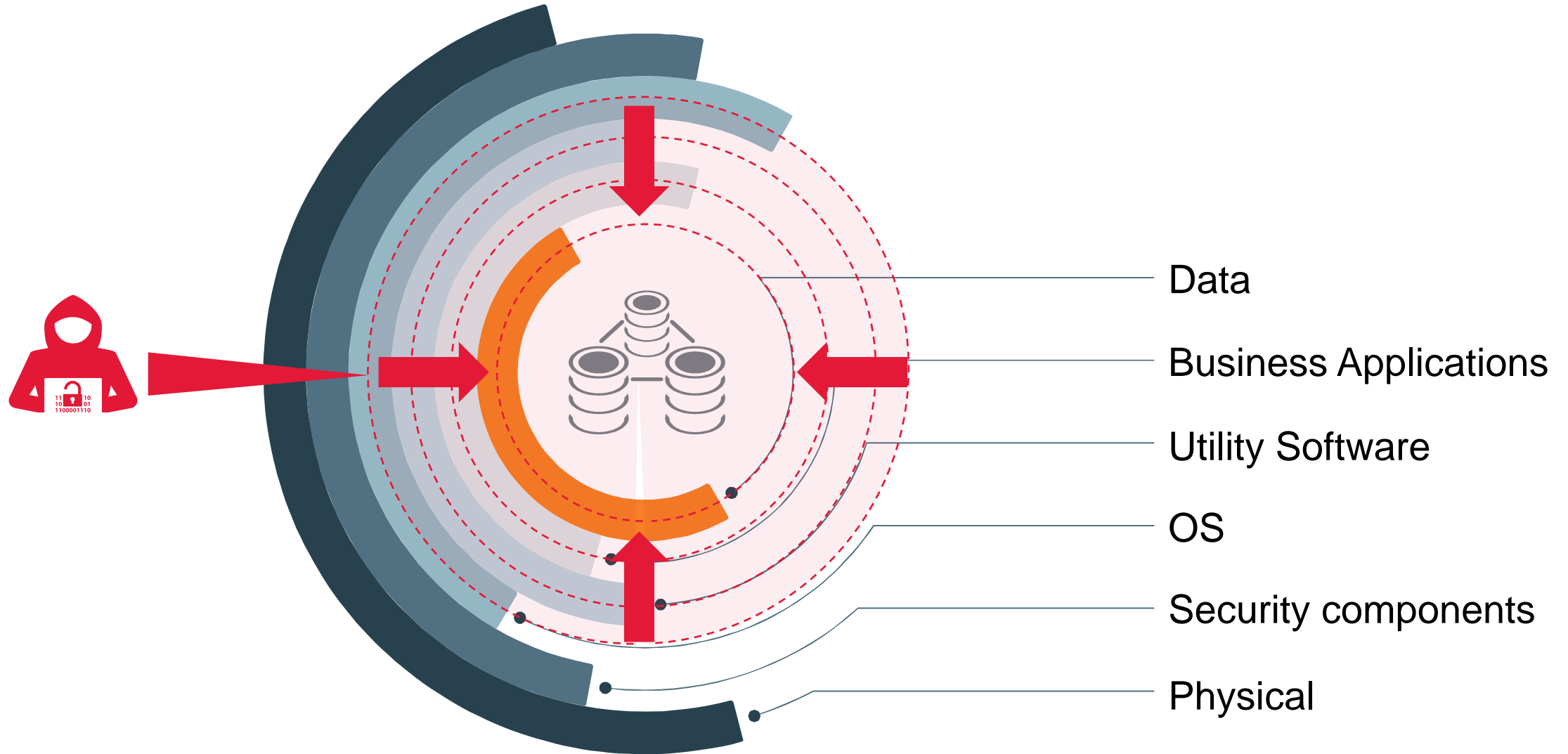


CGI's modern cybersecurity program

– maturity/evolution view



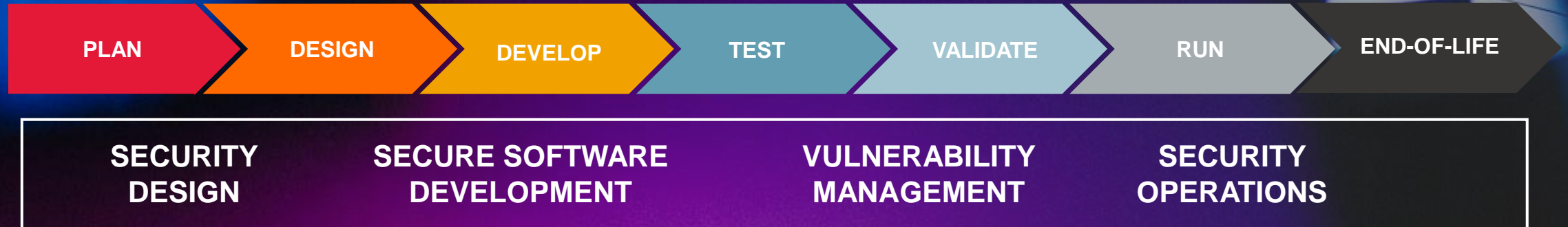
Business Application Security Monitoring



We secure your digital business

We have the people, tools and processes to protect your digital business by assessing the risks and helping you develop secure digital services, while continuously monitoring and protecting against existing and emerging cybersecurity threats throughout the service lifecycle.

SECURITY LIFECYCLE PROCESS



Helsinki SOC

Facility Security

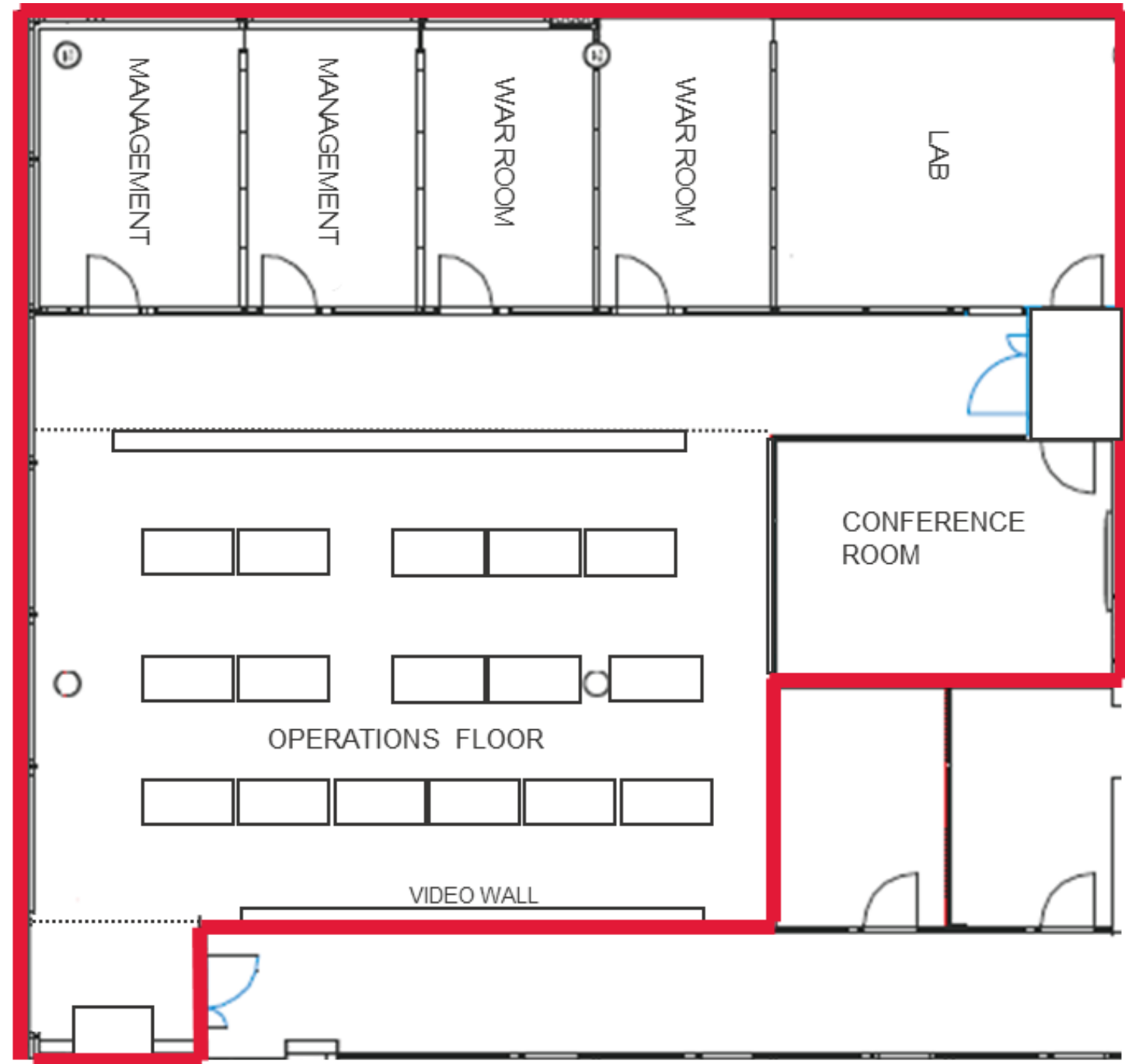
CGI ESMF Facility Security Standard

- High Security Area

International Facility Security Clearance (FSC) issued by the Finnish NSA

- Physical structure
- Personell security
- Network segregation
- Administrative security controls

All personell Finnish citizens and hold a government security clearance



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