

Cybersikkerhed



Willis Towers Watson og IBM
kombinerer teknologi og
cyberekspertrise med risikostyring og
forsikring.

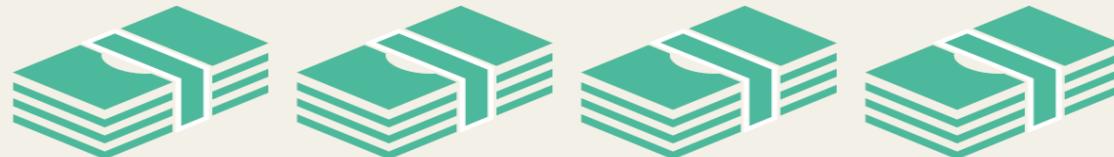
11. September 018

Velkommen!

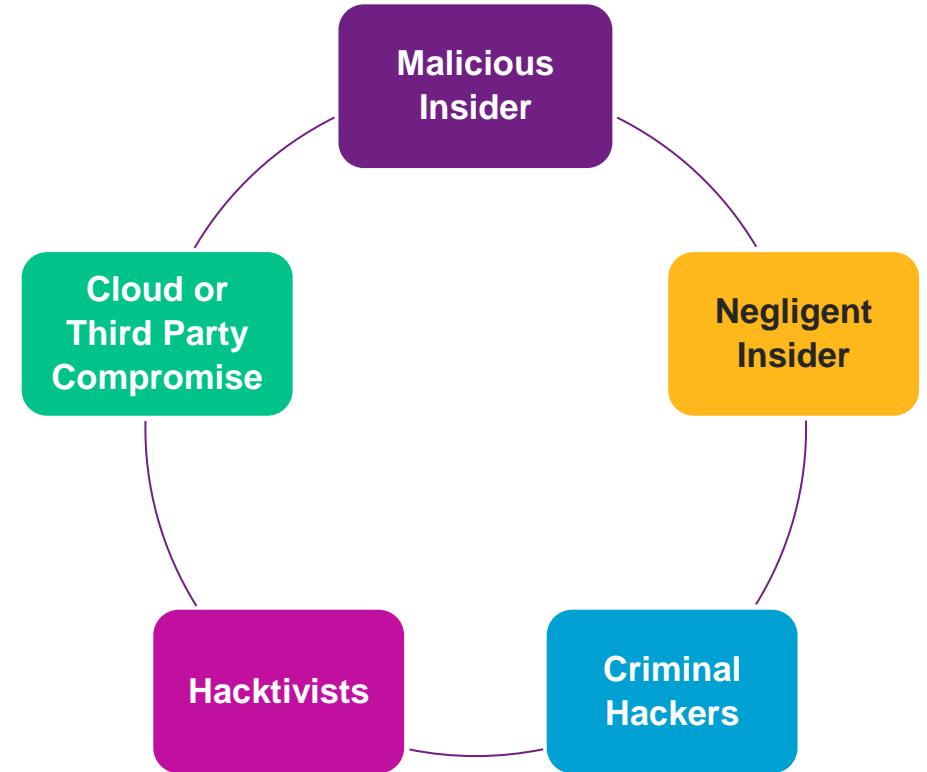
4,000

Ransomware attacks **per day** in 2016

\$1Billion crime:
4,000 attacks daily



Cyber Eksponering



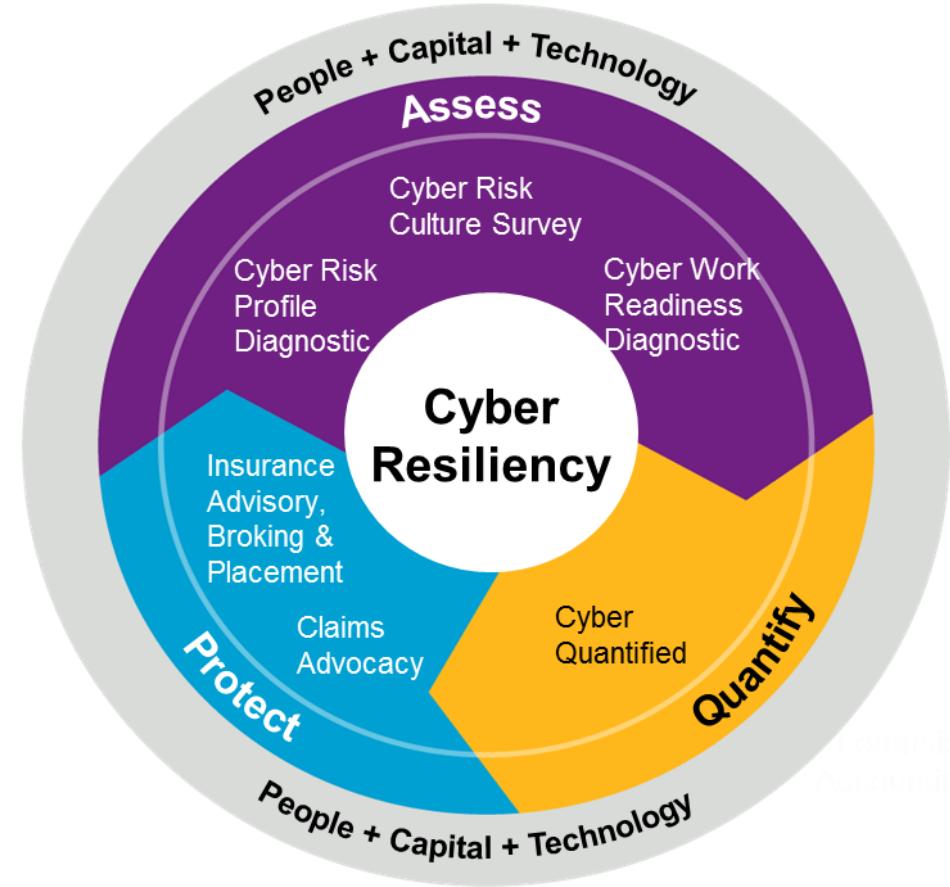
Cyber strategi

Willis Towers Watson har en holistisk tilgang til at forberede jeres cyber resilience

Willis Towers Watson anbefaler, at en robust cyber strategi tager udgangspunkt i følgende:

- **Assessment** = adressering og vurdering af cyber risikoen, risikokultur og risikostyringselementer.
- **Quantification** = Kvantificering af de økonomiske konsekvenser der følger af et cyberangreb.
- **Protect** = Beskyttelse, mitigering og financiering af risikoen.

Willis Towers Watson tilbyder en global ekspertrådgivning inden for både forsikring og risikostyring. Desuden har Willis Towers Watson samarbejde med andre partnere for at skabe et bindeledd mellem risikostyring, risikofinanciering og teknologiske løsninger.



Risikofinansiering og forsikring

Investering i sikkerhed – hvor skal man starte?

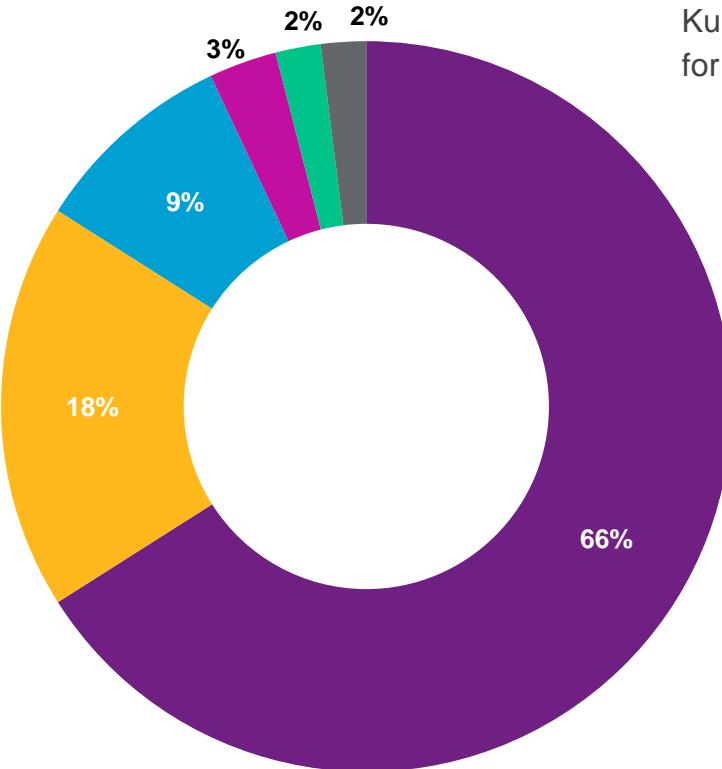


Risikofinansiering og forsikring

Investering i sikkerhed – hvor skal man starte?

Overvej hvilke personer der inddrages i risikovurdering og håndtering:

- IT?
- Jura?
- Salg?
- HR?



Medarbejdere er fortsat den største risiko!

Kultur og medarbejdernes engagement påvirker sannsynligheden for at blive ramt af et cybernedbrud eller et databrud.

- Employee negligence or malfeasance
- External threat factor
- Other
- Social engineering
- Cyber extortion
- Network business interruption

Riskostyring - kvantificering og prioritering

Hvilke omkostninger indgår i kvantificering?

- IT konsulenter
- Juridiske omkostninger
- Notifikationsomkostninger
- Data genetablering
- Data backup
- Services til kunder/datasubjekter?
- Overvågning af konto og bevægelser?
- PR håndtering
- Driftstab
- Sanktioner (Bøder)
- Kontraktuelle forpligtelser
- Kompensation til kunder/datasubjekter
- Erstatningskrav
- Transportomkostninger



Risikofinansiering og forsikring

Hvad dækker en typisk cyberforsikring?

Når virksomheden
oplever en
cyberhændelse,
som f.eks. :

Ddos angreb

Netværks-
forstyrrelser

Ransomware

Data Brud

Malware/Virus

Hacking

...vil en
cyberforsikring
dække følgende:

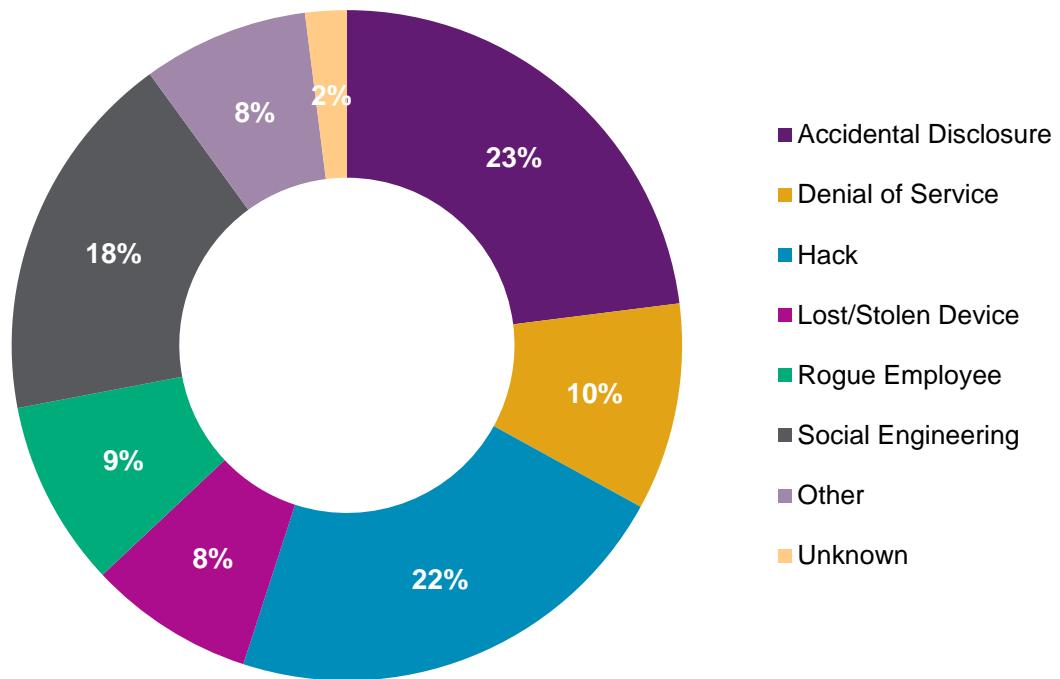
Krise håndtering

Ansvar overfor
tredjemand

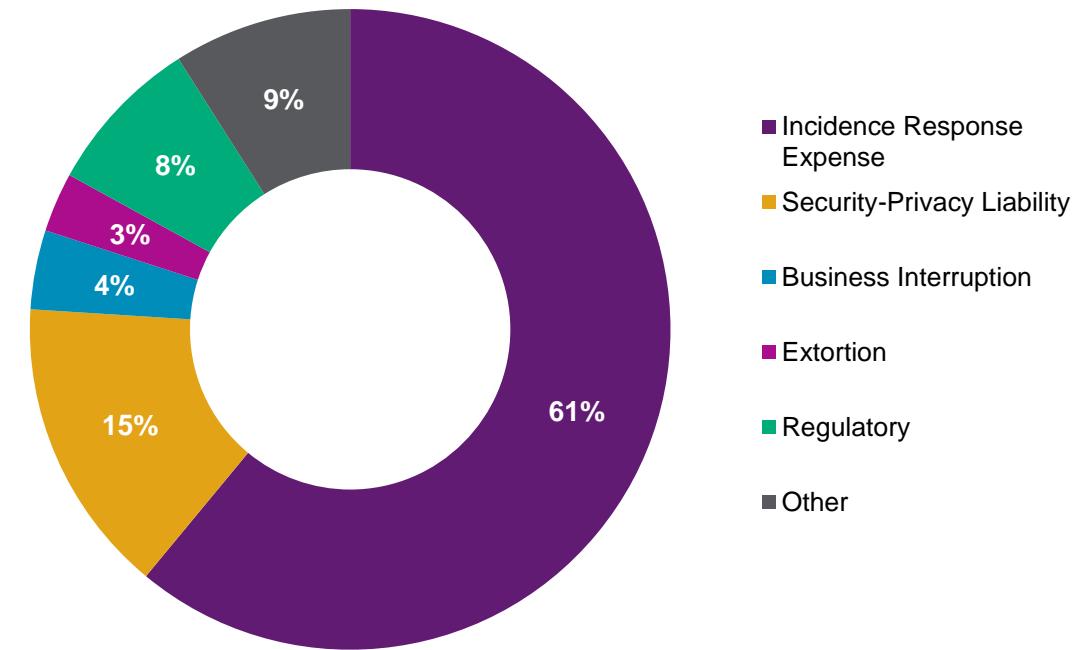
Sikredes eget tab

Risikofinansiering og forsikring

Type of loss



Coverages Implicated



Risikofinansiering og forsikring

Databrud

Hvordan virker forsikringen, når der sker en skade?

Hvad sker der?

[Hacker→ indtrænger virksomheden]



Hackeren skaffer sig adgang til virksomhedens IT-system eller netværk. Hackeren får adgang til fortroligt data, der indeholder alle data om ansatte.

[Hacker→ Data → Videresender]



Hackeren downloader det fortrolige data, information og enten vælger hackeren at lægge dataene ud på internettet eller sælger dataene på "the dark web" = **Virksomheden har nu lidt et databrud.**

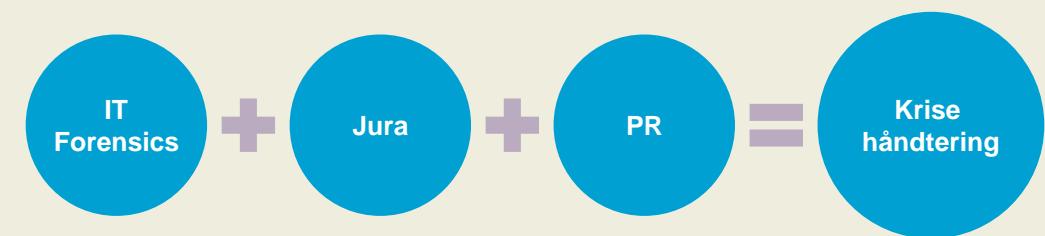
[Virksomheden vil nu (most likely) opleve en krise]



- Virksomheden skal straks undersøge, håndtere og begrænse databruddet!
- Medierne vil begynde at dække eventet = *DÅRLIG OMTALE*.
- De berørte datasubjekter vil forlange en forklaring og eventuelt kompenstation.
- Virksomheden skal måske forklare skaden til data-tilsynet.

Hvilke dækninger er relevante?

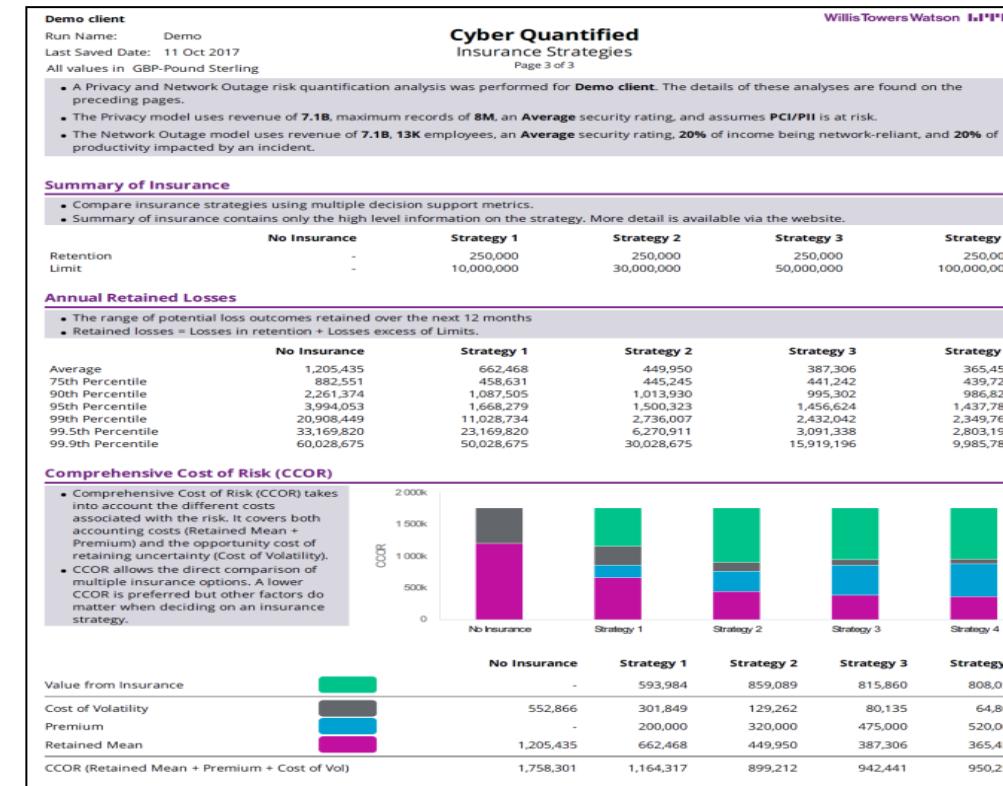
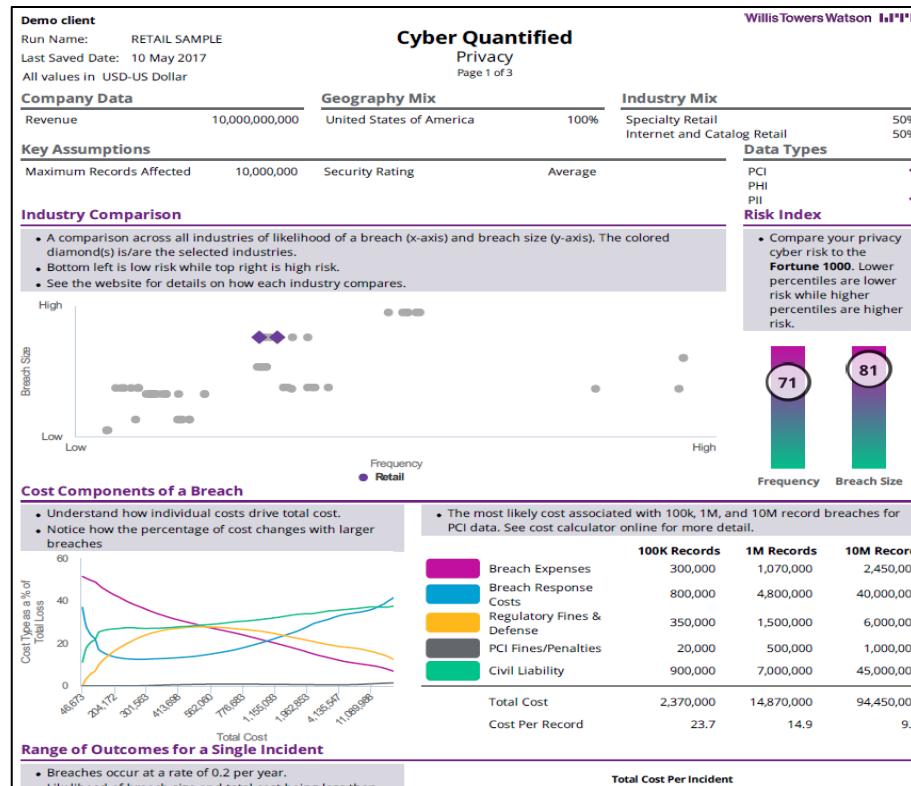
Så snart virksomheden indser, at de lider et cyberangreb, så kan de aktivere forsikringen. Typisk gøres dette i første omgang ved at ringe til den hotline, der findes på forsikringspolisen. Derefter har virksomheden adgang til følgende:



Risikostyring - kvantificering og prioritering

Dette nye forudsigende værktøj kvantificerer den risiko en organisation står overfor som følge af et databrud eller forkert håndtering af data, der fører til misligholdelse af personers privatliv.

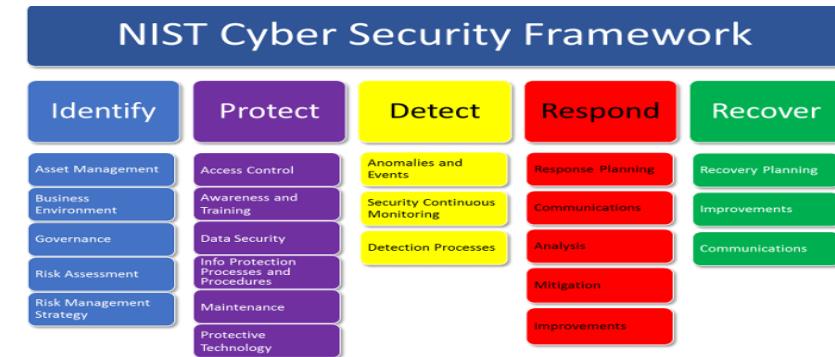
Modellen er den første af sin slags i industrien og måler blandt andet effekten og sandsynligheden for både et data brud og et netværks udfald på grund af en cyberbegivenhed. Desuden kan de finansielle konsekvenser af en sådan begivenhed estimeres i et omfang der har betydning for organisationens risikoplanlægning



Riskostyring - kvantificering og prioritering

Cyber Risk Profile Diagnostic: Hvad er det?

Benchmarking op imod topstandarer indenfor cybersikkerhed



ISO 27001 is a global standard on Information Security Management Systems (ISMS)



CRPD measures an organization's "cybersecurity maturity" against the ISO27001 and/or NIST Standards

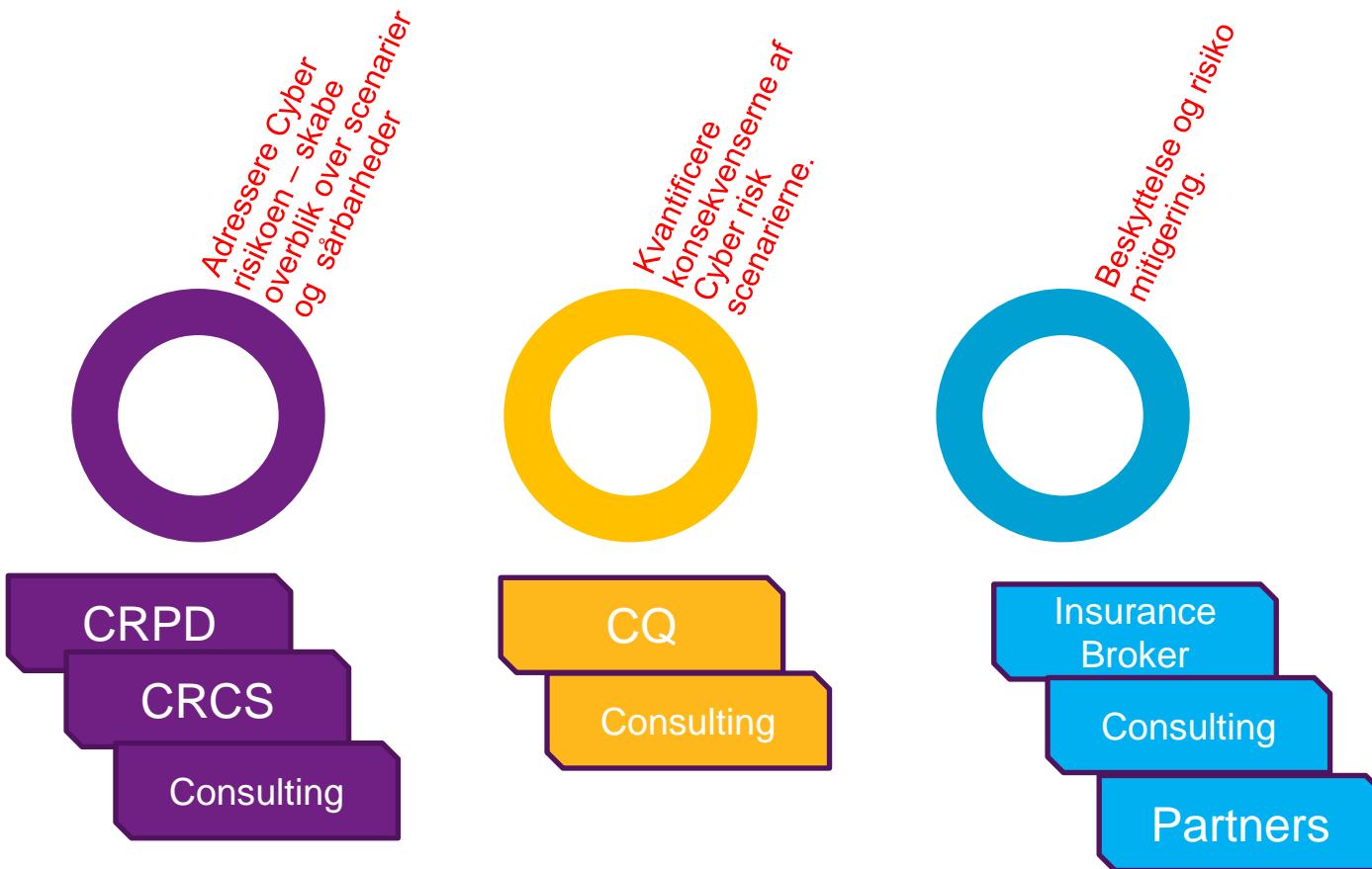
CRPD provides three main outputs during two phases that support the design of informed cybersecurity strategies:

- **On-line Self-Assessment:**
 - Dashboard assessment of an organization's cyber risk posture
- **On-site Workshop:**
 - Risk register developed through deep dive review and prioritization of online assessment results
 - Action Plans based on survey's outcomes, semi-automatic recommendations and cost/benefit analysis



Løsninger baseret på professionel service, værktøjer og pålidelige partnere

WTW værktøjer,
løsninger og
professionelle
serviceydelser.



Cybersikkerhed Willis Tower Watson Event

11 SEPTEMBER 2018

Uffe Spohr, Senior Security Consultant
uffespohr@dk.ibm.com
Jackie L Halling, Security Offering Manager
jclh@dk.ibm.com





IBM Security

<https://securityintelligence.com/as-seen-on-tv-important-lessons-for-winning-the-fight-against-cybercrime/>



IBM Security

**We exist to protect the world,
freeing you to thrive in the
face of cyber uncertainty**

Largest enterprise cybersecurity provider

Leader in 12 security market segments

3,700+ security patents

20+ security acquisitions

60B+ security events monitored per day

Ponemon study shows the true cost of a data breach

Global findings at a glance

\$3.86M / 6.4% 

Average total cost of data breach

\$148 / 4.8%

Average cost per record lost or stolen

24,615 / 2.2% 

Average number of breached records

27.9%

Likelihood of a recurring material breach over two years



477 companies participated
Currency: US dollar

Per-record costs for top three industries

 **\$408** Health

 **\$206** Financial

 **\$181** Services

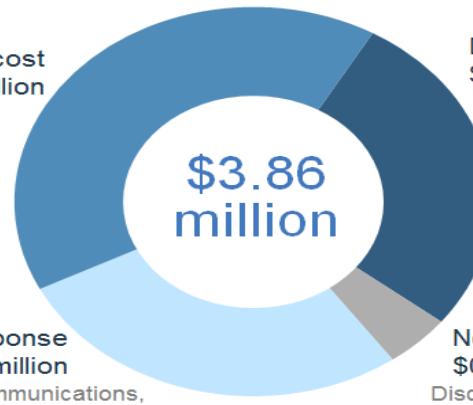
The largest component of the total cost of a data breach is lost business

Components of the \$3.86 million cost per data breach

Lost business cost
\$1.45 million
Abnormal turnover of customers, increased customer acquisition cost, reputation losses, diminished goodwill

Post-breach response
\$1.02 million

Help desk, inbound communications, special investigations, remediation, legal expenditures, product discounts, identity protection service, regulatory interventions



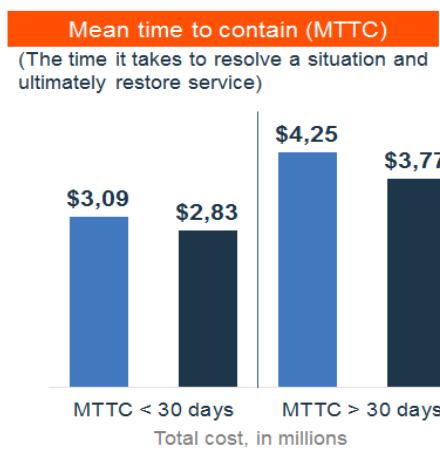
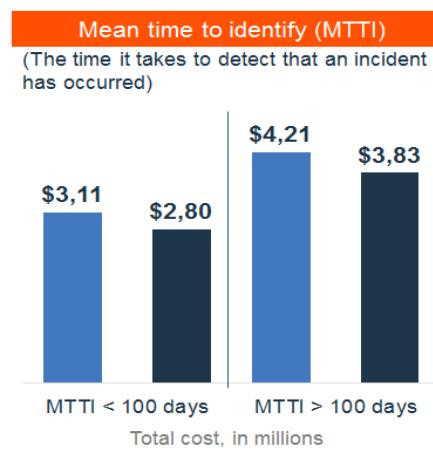
Detection and escalation
\$1.23 million

Forensics, root cause determination, organizing incident response team, assessment and audit services

Notification
\$0.16 million

Disclosure of data breach to victims and regulators

Gaining visibility and responding faster help to reduce costs



What you can do to help reduce the cost of a data breach

Amount by which the cost-per-record was lowered



The Ponemon study can be accessed here: <https://www.ibm.com/security/data-breach>

Examining the 2018 Cost of a Data Breach

[Explore the data](#)[Share](#)

The 2018 Ponemon Cost of a Data Breach study explores the implications and effects of a data breach on today's businesses

[Download the report](#) [Return to Cost of a Data Breach overview](#)

Data Security Readiness Assessment



To lower your risk, understand your security exposure by focusing on the categories that received the lowest scores. Next, it's time to develop an effective threat management strategy following the guidelines provided.

RECOVER



Engage with IBM X-Force Incident Response Services to proactively hunt and respond to threats.

[Learn More](#)

RESPOND



IBM X-Force Vision Retainer offers Incident Response and advisory services, root cause analysis, and a response improvement plan.

[Learn More](#)

IDENTIFY



Find and disrupt security attacks on your endpoints with IBM Managed Detection and Response services.

[Learn More](#)

DETCT



IBM X-Force Vision Retainer offers incident management playbooks and a response powered by Resilient.

[Learn More](#)

PREVENT

<https://www.ibm.com/security/data-breach>

IBM's 10 Essential Practices provides a board-ready framework for evaluating the security function and defining a security strategy



GOAL:
Intelligent cyber threat protection and risk management

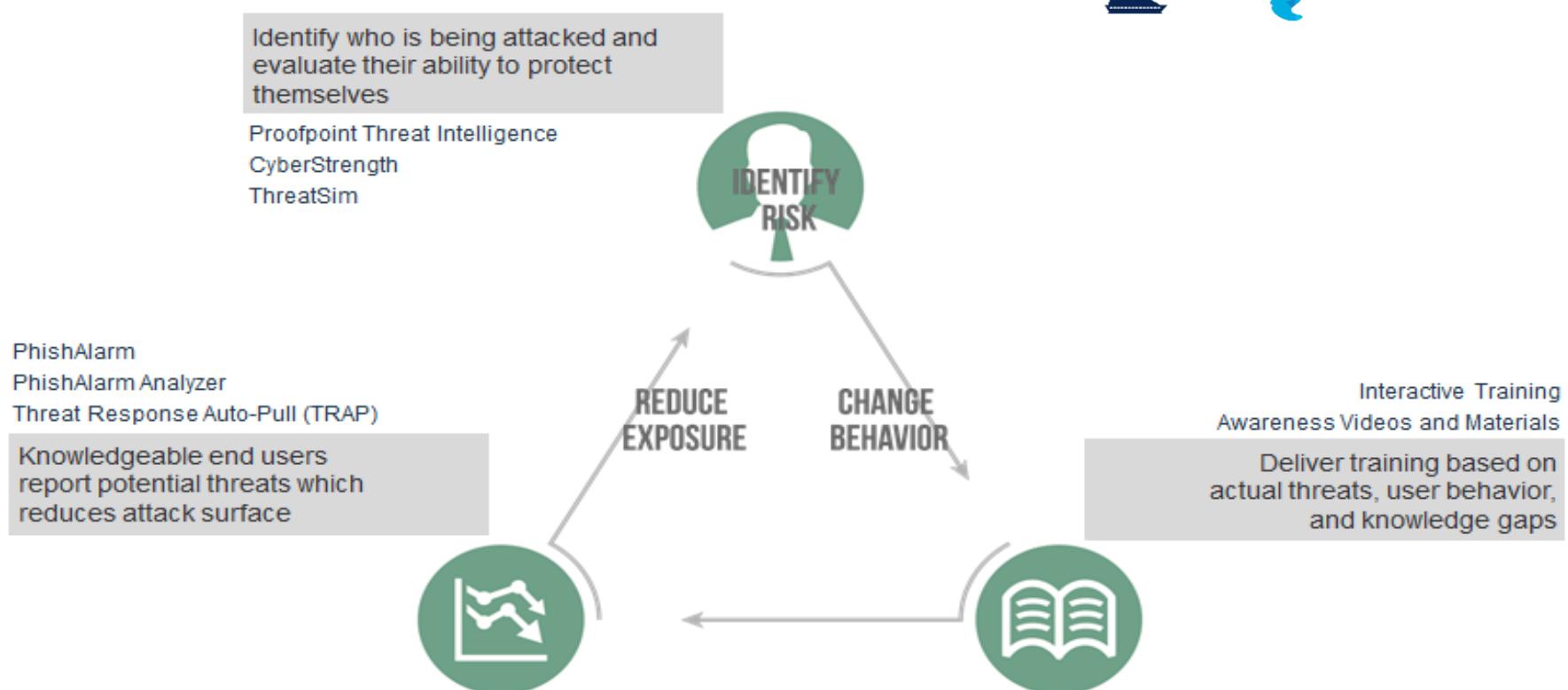


Security Awareness and Training platform

People-Centric Risk Reduction

Global strategic partnership between IBM & Wombat

- Able to deliver Wombat as a managed service solution
- Jointly leveraging best practices to deliver best-in-class security awareness solutions to clients



IBM X-Force IRIS uses best practice technologies supported by consulting and services expertise

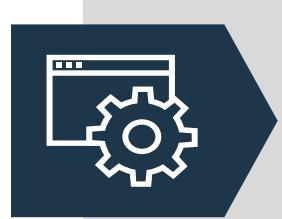


IBM X-Force IRIS
Incident Response and Intelligence Services

Combines intelligence, incident response, and remediation into one

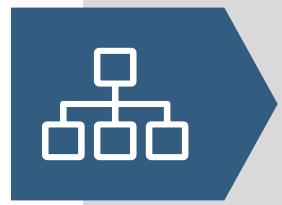
- IRIS Vision Retainer:
- IR Program Assessment & Playbooks
- Tabletop Exercises
- Incident Response & Breach Remediation
- Cybersecurity Incident Response Planning
- Active Threat Assessment
- Managed Detection and Response
- IBM X-Force Threat Analysis service
- X-Force Cyber Threat Intelligence (CTI) Workshop
- Strategic Threat Assessment
- Threat Impact Analysis

X-Force Red Penetration Testing across all the technologies you use



Application

- Web
 - Mobile
 - Terminal
- Thick-client
 - Mainframe
 - Middleware



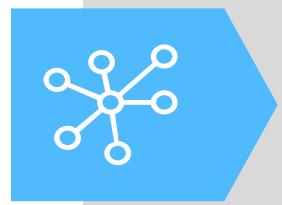
Network

- Internal
 - External
 - Wireless
- Other radio frequencies
 - SCADA



Human

- Physical
- Social engineering
- Phishing

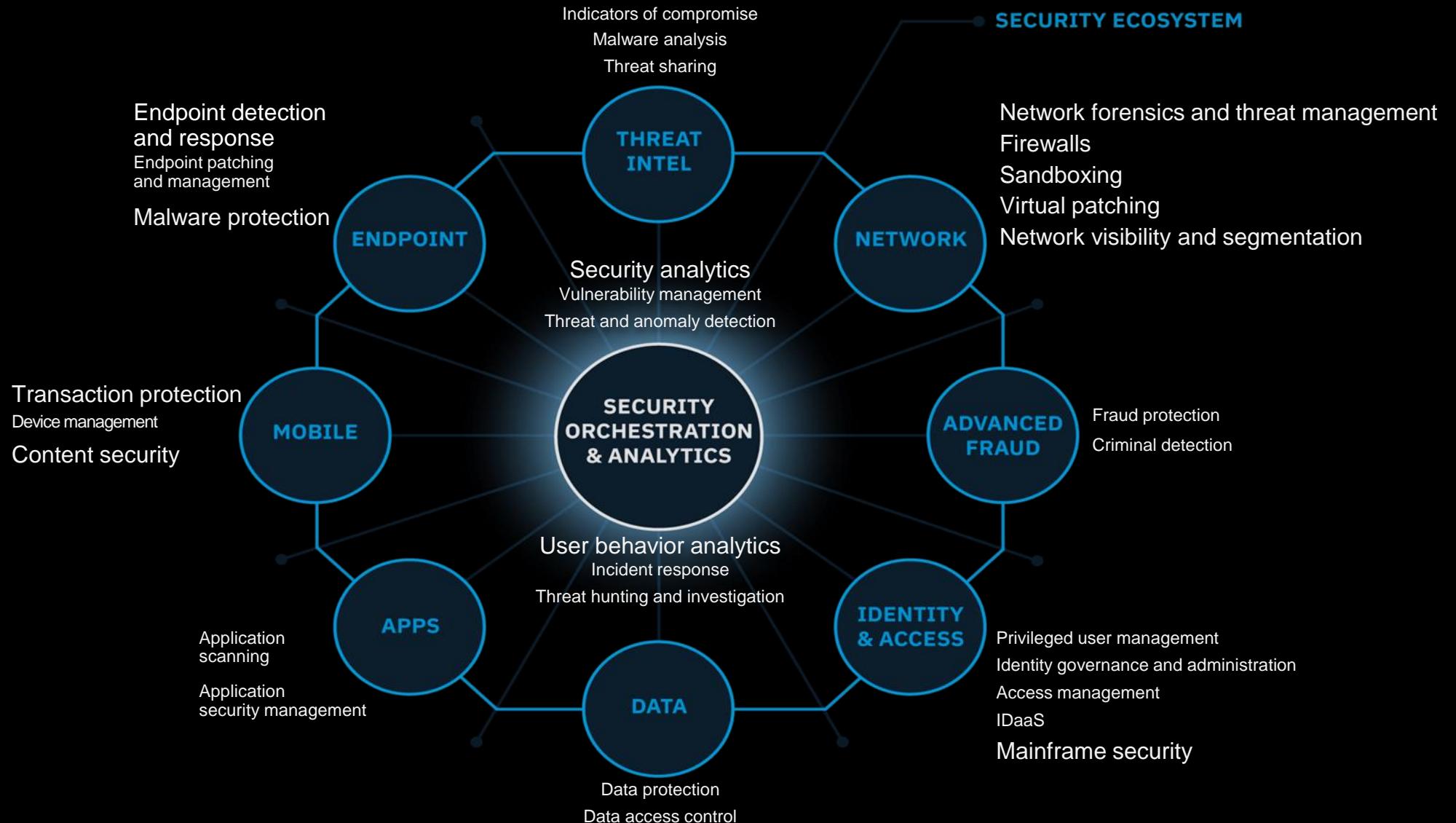


Hardware and embedded devices

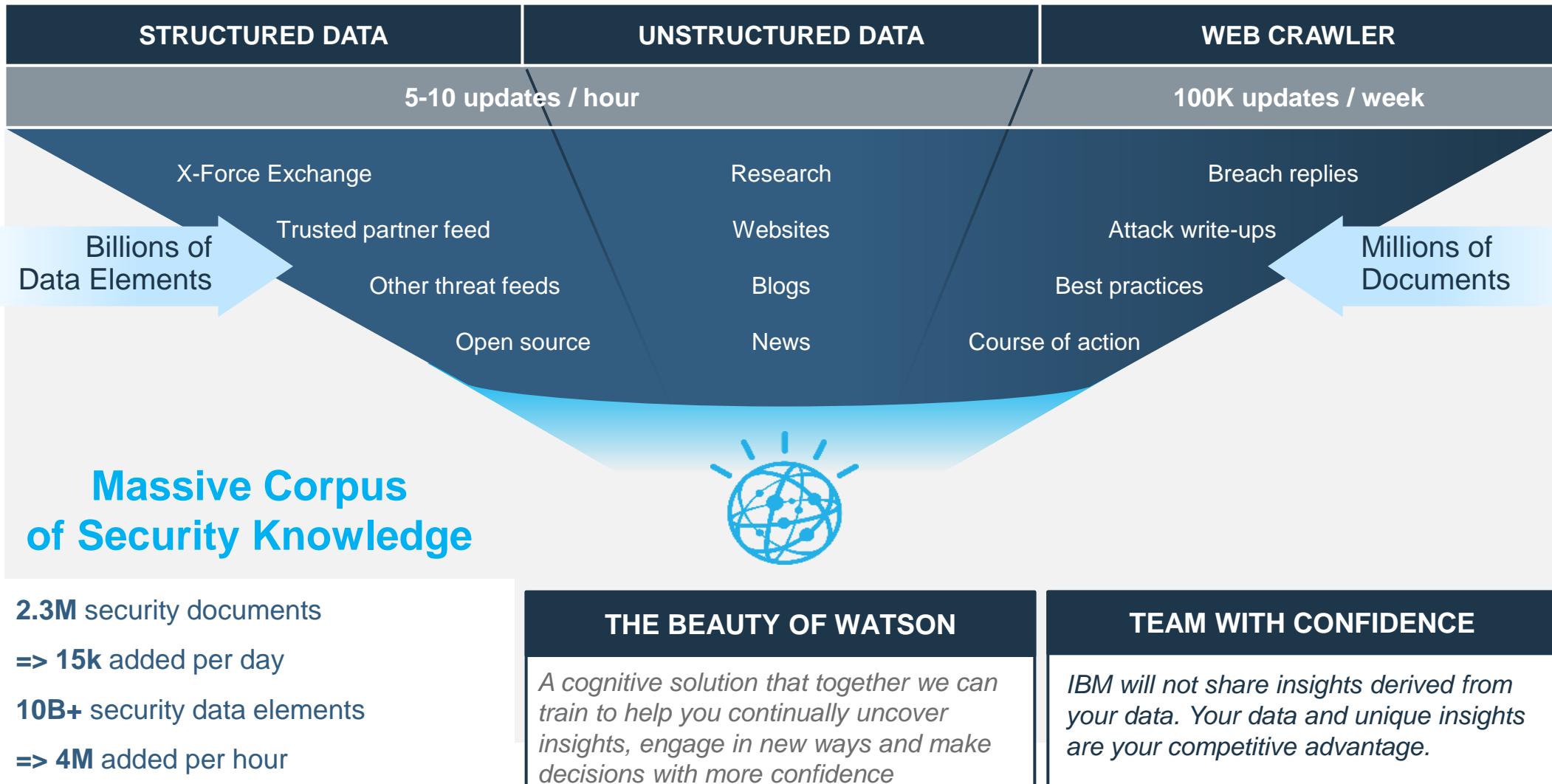
- IoT and IIoT
 - Wearable technologies
 - Point of Sale
- ATMs
 - Self-checkout kiosks

- **Criminals need only one vulnerability; the four pillars of testing require a comprehensive program to mitigate risk.**
- **Vast global collective experience** means that **IBM** can test **virtually any** type of target, no matter how obscure.

An integrated and intelligent security immune system



How the Watson for Cyber Security helps stop threats ... continuously

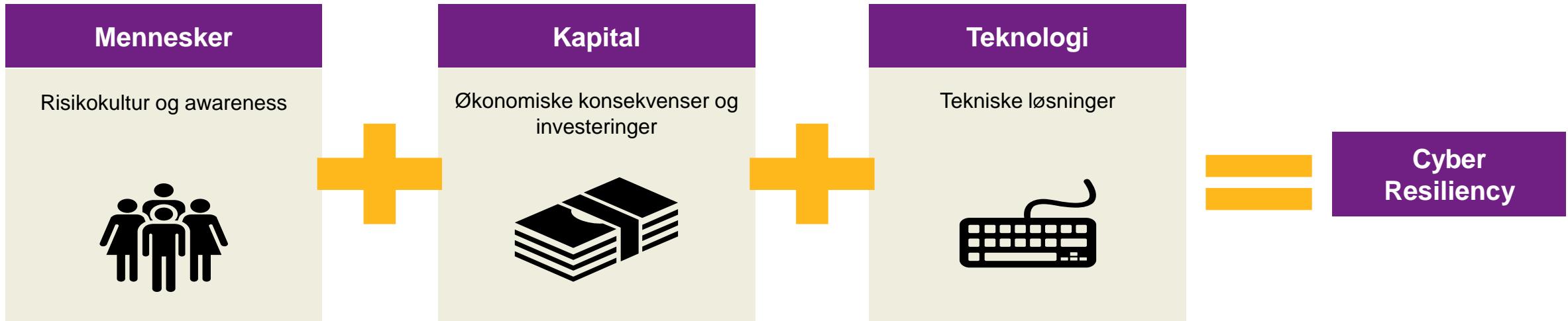


Cyber Resiliency Best Practices

1	Reduce your attack surface by ensuring that all systems are regularly scanned and patched. Remove unnecessary services	7	Regularly conduct internal and external human based penetration tests
2	Deploy port blocking technologies for external hosts and from the local network to the WAN	8	Implement strict privileged user credential monitoring and restrictions
3	Ensure network segmentation is in place and policies are enforced with logging enabled	9	Ensure critical data is protected, isolated and validated on a frequent basis
4	Back-up critical data on a regular basis and freeze pre-infection backups to protect from backup infection	10	Have a complete and accurate Configuration Management Database of all IT Assets
5	Have a Cyber Resiliency Plan in place that is tested regularly	11	Ability to lockdown your Network/Infrastructure quickly in the midst of a Cyber Attack
6	Educate your employees not to click on attachments especially that launch macros	12	Whitelist services, processes and application on critical infrastructure

Afslutning:

Når du går i dag er din tilgang til Cyber sikkerhed så den samme, som da du kom?



Tak for i dag !

Uffe Spohr

IBM Senior Security Consultant
IBM Security

Phone: +45 28 80 36 65

E-mail: uffespohr@dk.ibm.com

Location: Proevensvej 1, 2605 Broendby, Denmark



Jackie L. Halling

IBM Security Offering Manager
IBM Security

Phone: +45 41202564

E-mail: jchl@dk.ibm.com

Location: Proevensvej 1, 2605 Broendby, Denmark



Tine Olsen,

Deputy FINEX Cyber Practice Leader Western Europe
Practice Lead CYBER Denmark, Willis Towers Watson
Cand. Jur., HD(O).

T +45 88139600

D +45 88139431

M +45 29213810

tine.olsen@willistowerswatson.com

Willis I/S Rundforbivej 303, DK-2850 Nærum

