From little mishaps to cyberwarfare – we need to deal with it.

Z. Maslic, Kudelski Security @ ISSS Berner Tagung, January 11, 2023

Grüezi Mitenand

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Zrinka Maslic completed her apprenticeship as a typesetter in 1991. Since then, she has worked in the IT industry, initially implementing IT systems at numerous Swiss print media corporations. She soon specialised in central application server and storage systems and from the late nineties on she focused on IT security and perimeter protection. Since then, loyal to IT and information security, she held CTO and CISO functions and built the managed security services of a Swiss service provider.

In 2019, she moved to Kudelski Security where she now leads one of the regional Solution Architect teams.

How do you conquer the challenges of driving your core business AND implementing the right strategies to make it resilient against cyber attacks?

Points to consider to save your business from being defeated by a single wrong-placed click.

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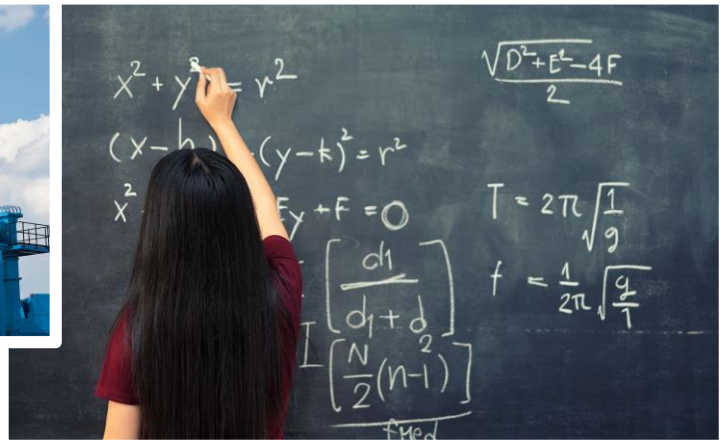
Our core business is Cybersecurity – We protect yours.



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A (very) short history of Cyber(in)security

Spammers and embezzlers start using computer-based methods.

Cybercrimes for a “good” cause gain dubious popularity – Anonymous, Snowden, Wikileaks, Assange.

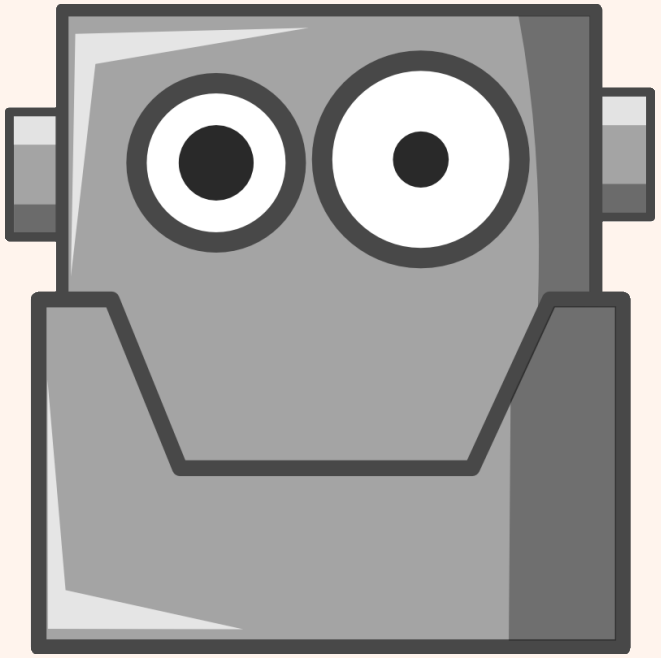
Criminals have adopted cyber crime for extorting considerable sums – phishing, ransomware, double/triple extortion.

Fraudsters → **Script Kiddies** → **Hacktivists** → **Nation States** → **Criminals** → **Digitalization?**

Low-skill attacks produce considerable clean-up efforts – Melissa, Slammer, Love Bug, Anna Kournikova, Heartbleed, …

The profound influence of nation states becomes very visible with Stuxnet and later with the Solar Wind hacks.

With the Covid-19 pandemic, digitalization leapt forward – Did cybersecurity keep up?



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What does rapid digitalization mean?

Our efforts on
Security Awareness
are being torpedoed

- More distance and less bonding between teammates
- Culture differences
- More frequently changing staff

Our
Attack Surface
accumulates more blind spots

- Merging OT, IIoT, IoT, IT
- More cloud solutions
- Complex trust chains between applications

Our
Capacity to Respond
becomes limited

- Lack of standards
- Non-paying insurances
- Different legal situations
- Complex supply chains

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Upper manger level,
crisis staff

Broad
employee base

Cyber War Games

Awareness Trainings

Cyber Range

Tabletop Exercises

SOC,
Admins, Analysts

Admins,
Crisis managers

The fish stinks from the head

- Create awareness at the highest level with appropriate means
- Practice – communication, activities, responsibilities
- Create traceability, e.g. with MITRE

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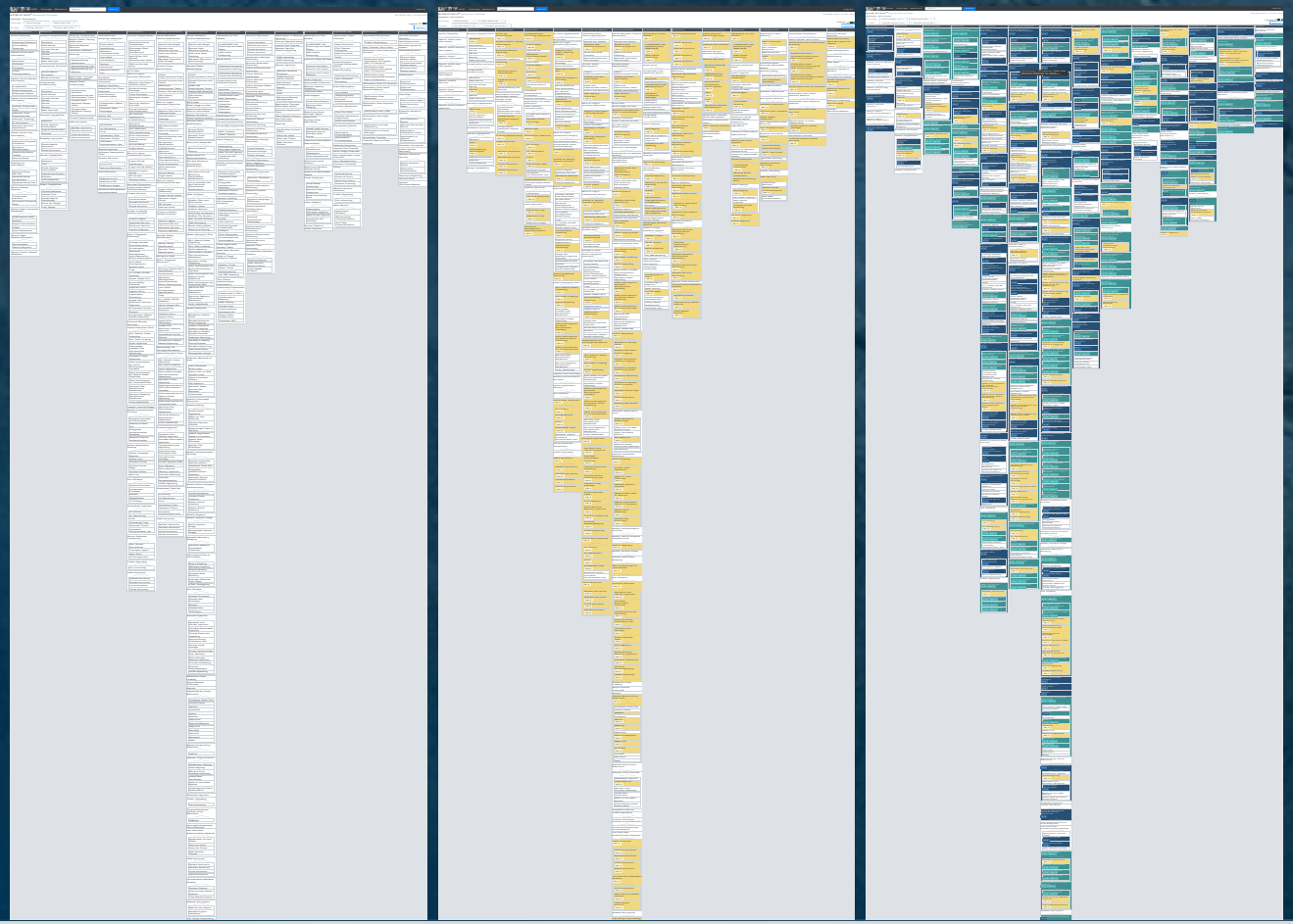
Consider yourself attacked



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Top attack vectors

- Credentials
- Phishing
- Vulnerabilities

Top countermeasures

- EDR/NGAV with 24x7 Detection Monitoring
- Identity Protection
- Zero Trust Access Concepts
- Email Fraud/Phishing Detection
- Attack Surface/Path Management
- Risk-based Vulnerability Management
- Secure Remote Access

GUIDANCE

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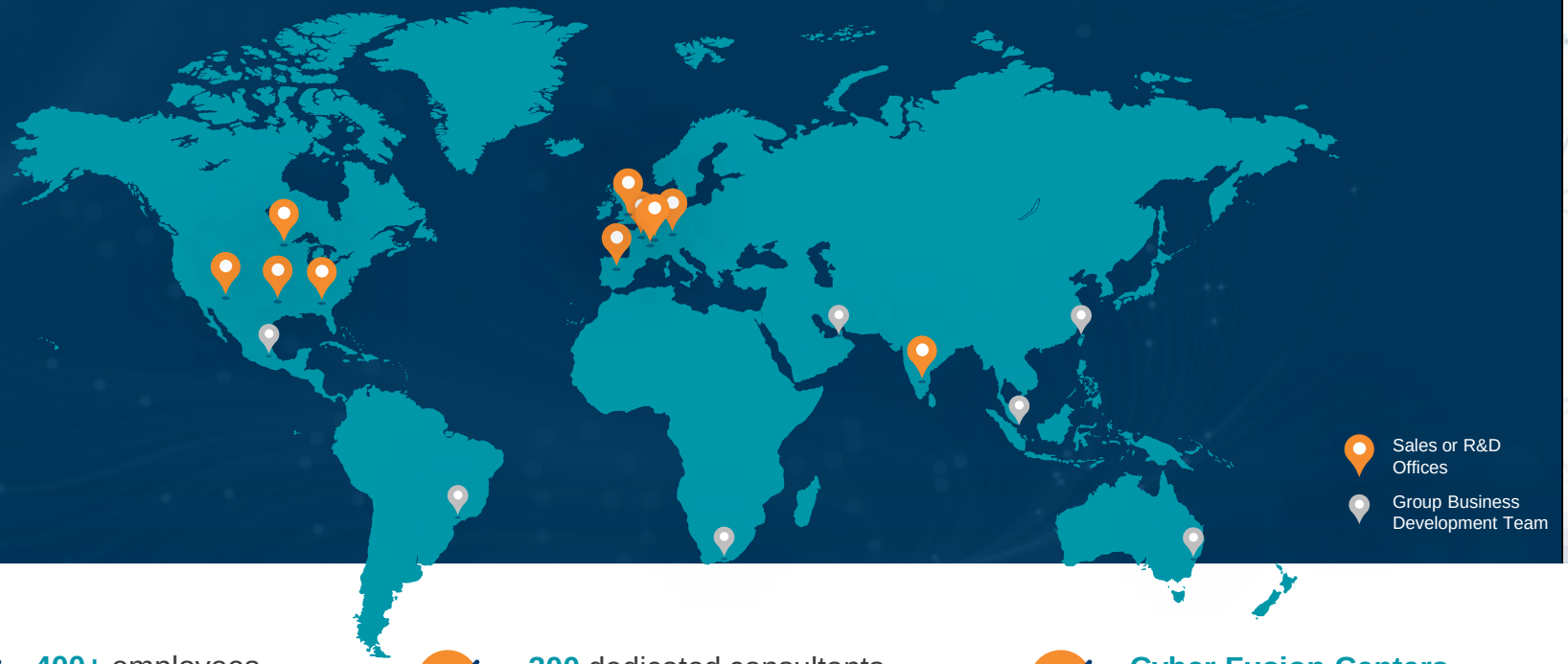

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Phoenix, AZ

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- **Cyber Fusion Centers** in Europe and the US
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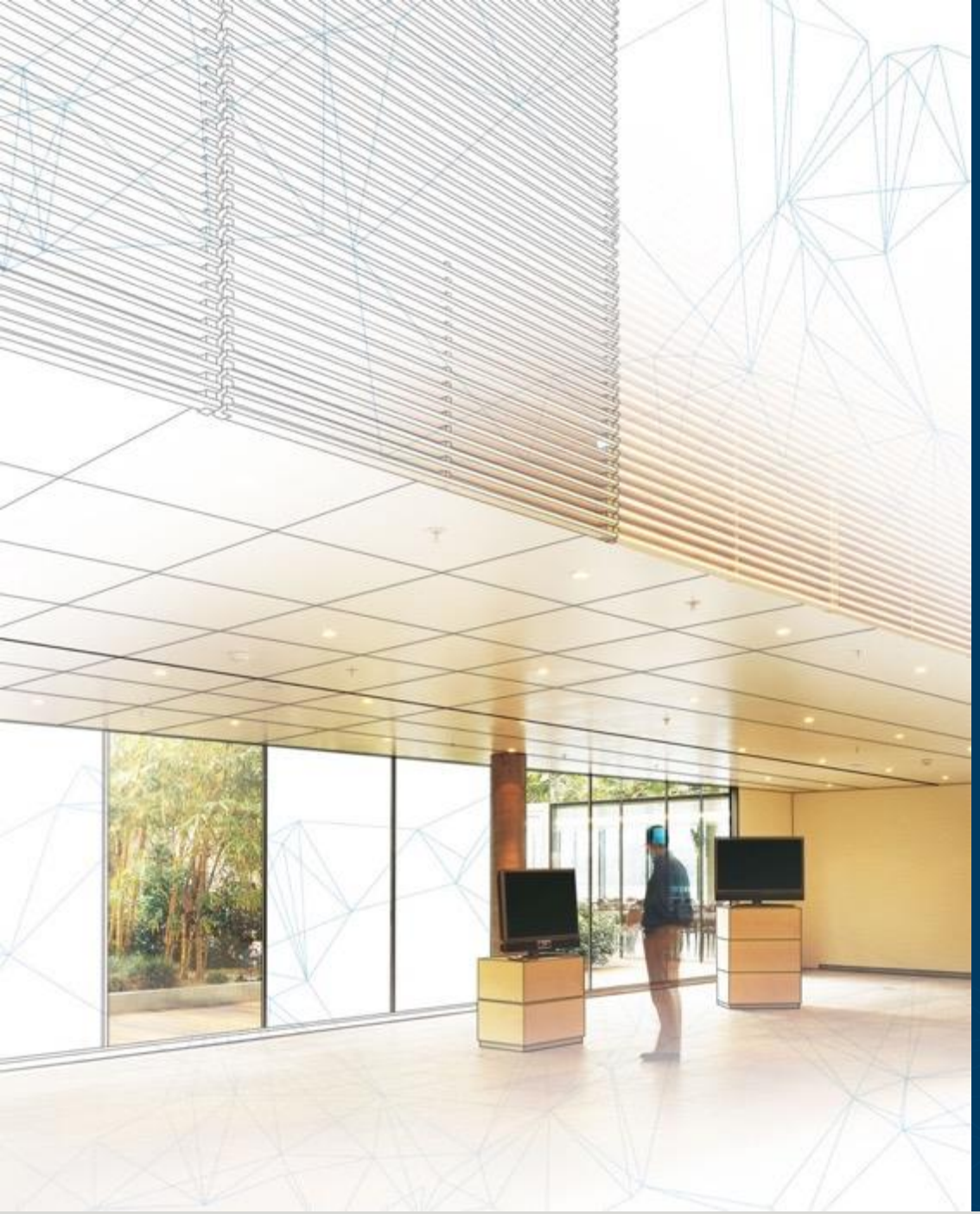

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Thank You

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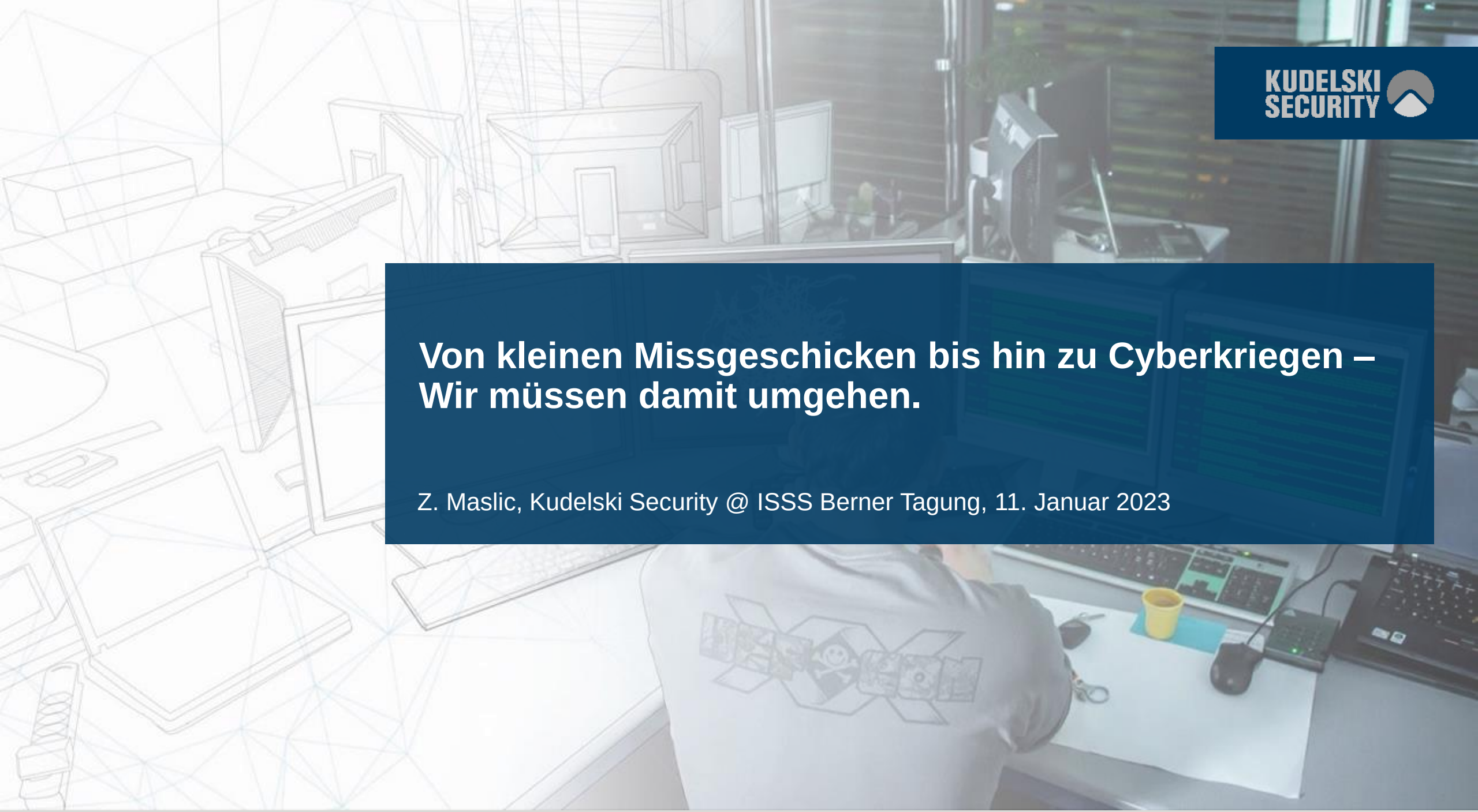

Von kleinen Missgeschicken bis hin zu Cyberkriegen – Wir müssen damit umgehen.

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Zrinka Maslic schloss 1991 ihre Lehre als Schriftsetzerin ab. Seither ist sie in der IT-Branche tätig und implementierte zunächst IT-Systeme bei zahlreichen Schweizer Printmedienunternehmen. Bald spezialisierte sie sich auf zentrale Applikationsserver- und Speichersysteme und ab Ende der Neunzigerjahre auf IT-Sicherheit und Perimeterschutz. Seither ist sie der IT- und Informationssicherheit treu geblieben, hatte CTO- und CISO-Funktionen inne und baute die Managed Security Services eines Schweizer Service Providers auf.

Im Jahr 2019 wechselte Zrinka Maslic zu Kudelski Security, wo sie heute eines der regionalen Solution Architect Teams leitet.

Wie bewältigen Sie die Herausforderung, Ihr Kerngeschäft zu führen UND die richtigen Strategien zu implementieren, die es Cyberangriffe widerstehen lässt?

Punkte, die Ihr Geschäft davor schützen können, von einem einzigen, fehlplatzierten Klick bezwungen zu werden.

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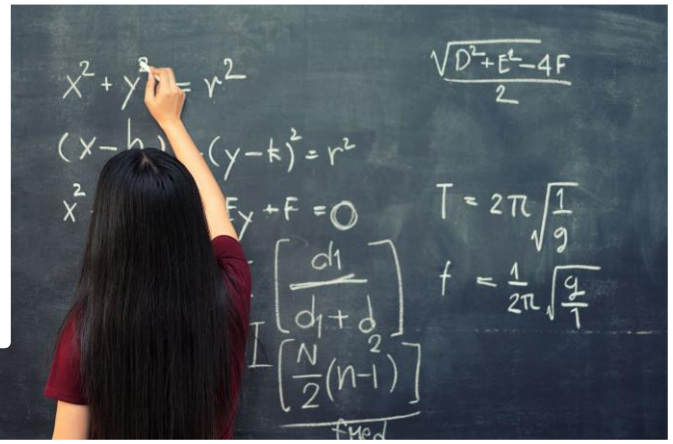
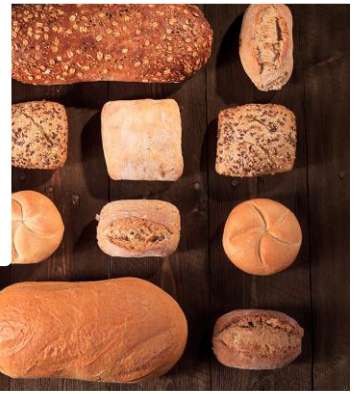
Unser Kerngeschäft ist Cybersecurity – Wir schützen das Ihre.





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Eine (sehr) kurze Geschichte der Cyber(un)sicherheit

Spammer und Veruntreuer nutzen computergestützte Methoden.

Cyberkriminalität für einen "guten" Zweck gewinnt zweifelhafte Popularität – Anonymous, Snowden, Wikileaks, Assange.

Kriminelle erpressen beträchtliche Summen via Internet – Phishing, Ransomware, doppelte/dreifache Erpressung.

Betrüger → **Script Kiddies** → **Hacktivists** → **Nationalstaaten** → **Kriminelle** → **Digitalisierung?**

Einfache Angriffe führen zu erheblichen Aufräumarbeiten – Melissa, Slammer, Love Bug, Anna Kournikova, Heartbleed, ...

Der tief greifende Einfluss von Nationalstaaten wird bei Stuxnet und später bei den Solar Wind-Hacks sehr deutlich.

Mit der Covid-19-Pandemie machte die Digitalisierung Siebenmeilensprünge – konnte die Cybersecurity mithalten?

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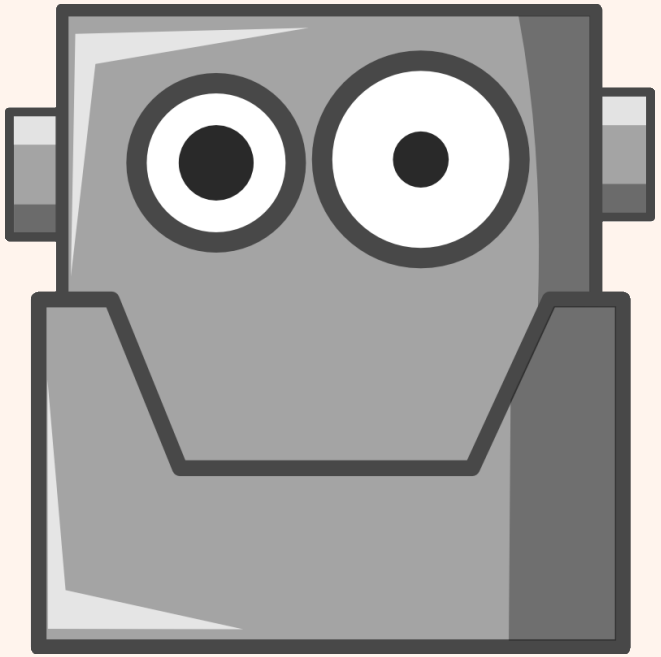

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Was bedeutet diese schnelle Digitalisierung?

Unsere Anstrengungen zur **Security Awareness** werden torpediert

- Mehr Distanz und weniger Verbund zwischen Teamkollegen
- Kulturunterschiede
- Häufiger wechselndes Personal

Unsere **Angriffsfläche** erhält mehr blinde Flecken

- Verschmelzung OT, IIoT, IoT, IT
- Immer mehr Cloud-Lösungen
- Komplexe Trust Chains zwischen Applikationen

Unsere **Reaktionsfähigkeit** wird eingeschränkt

- Mangel an Standards
- Nicht zahlende Versicherungen
- Unterschiedliche Rechtslagen
- Komplexe Lieferketten

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Obere Managerebene,
Krisenstab

Cyber War Games

Breite
Mitarbeiterschaft

Awareness Trainings

Tabletop Exercises

Admins,
Krisenmanager

Cyber Range

SOC,
Admins, Analysten

Der Fisch stinkt vom Kopf

- Awareness auf oberster Ebene schaffen mit angemessenen Mitteln
- Üben – Kommunikation, Handgriffe, Aufgabengebiete
- Nachvollziehbarkeit schaffen, z.B. mit MITRE

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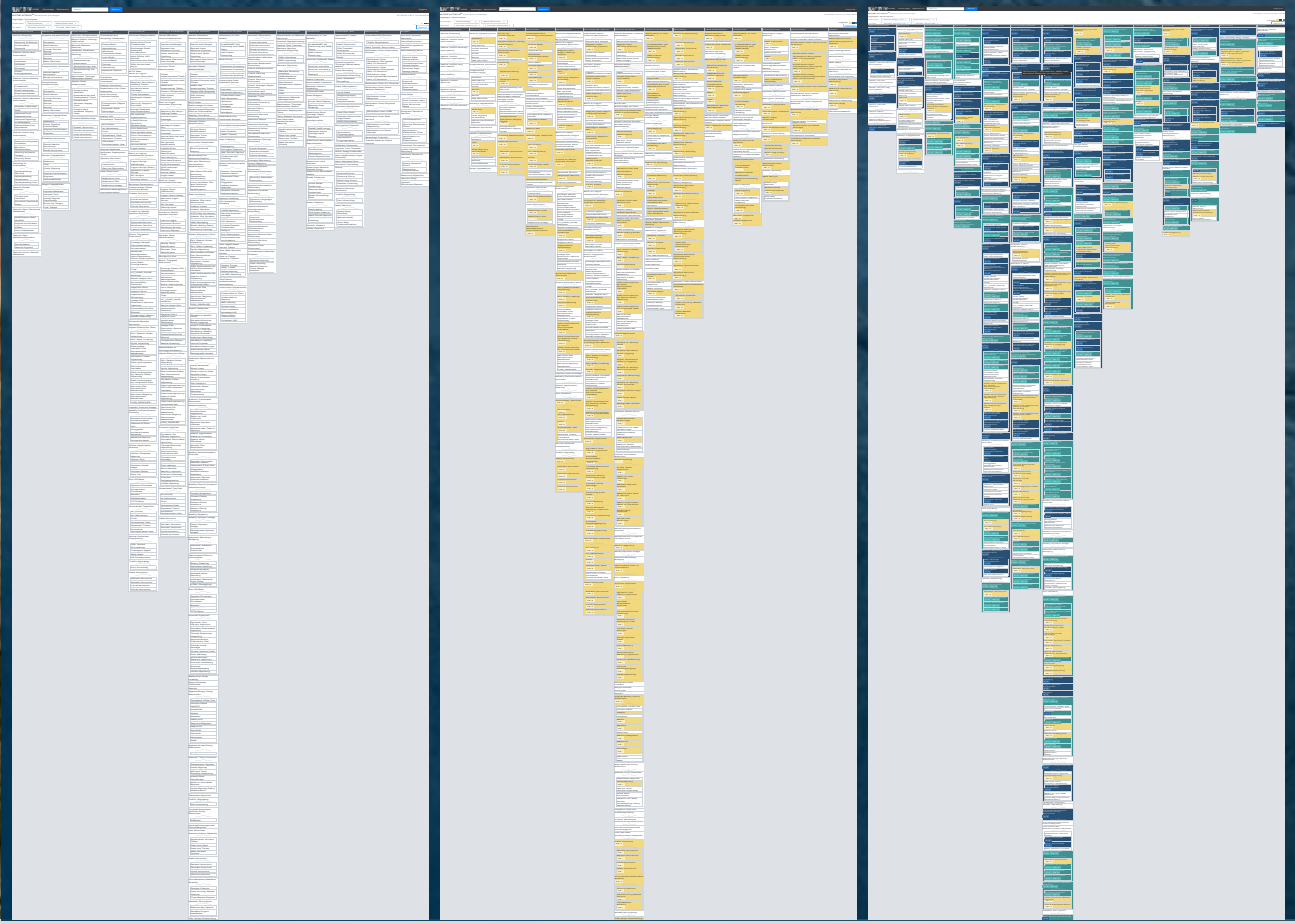
Betrachten Sie sich als angegriffen



Top-Angriffsvektoren

- Credentials
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- Vulnerabilities

Top-Gegenmassnahmen

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LEITPLANKEN

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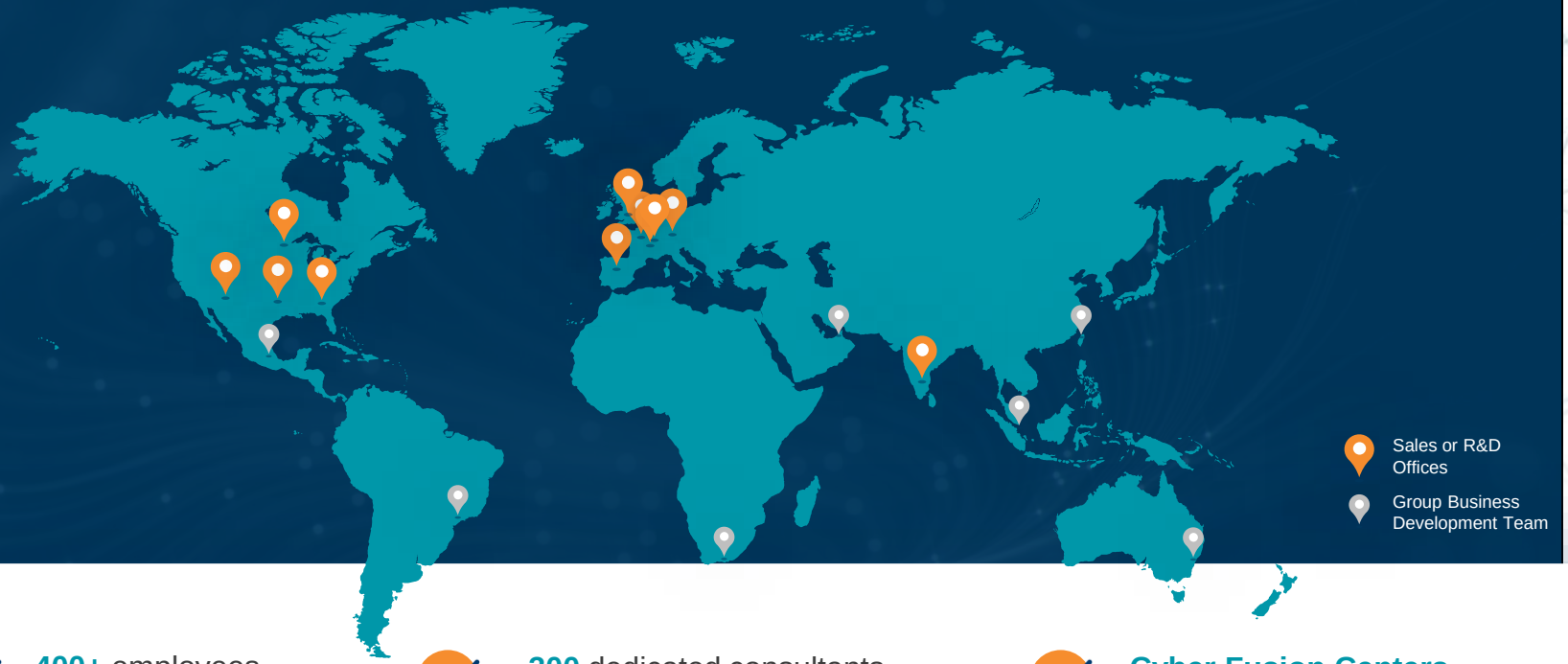

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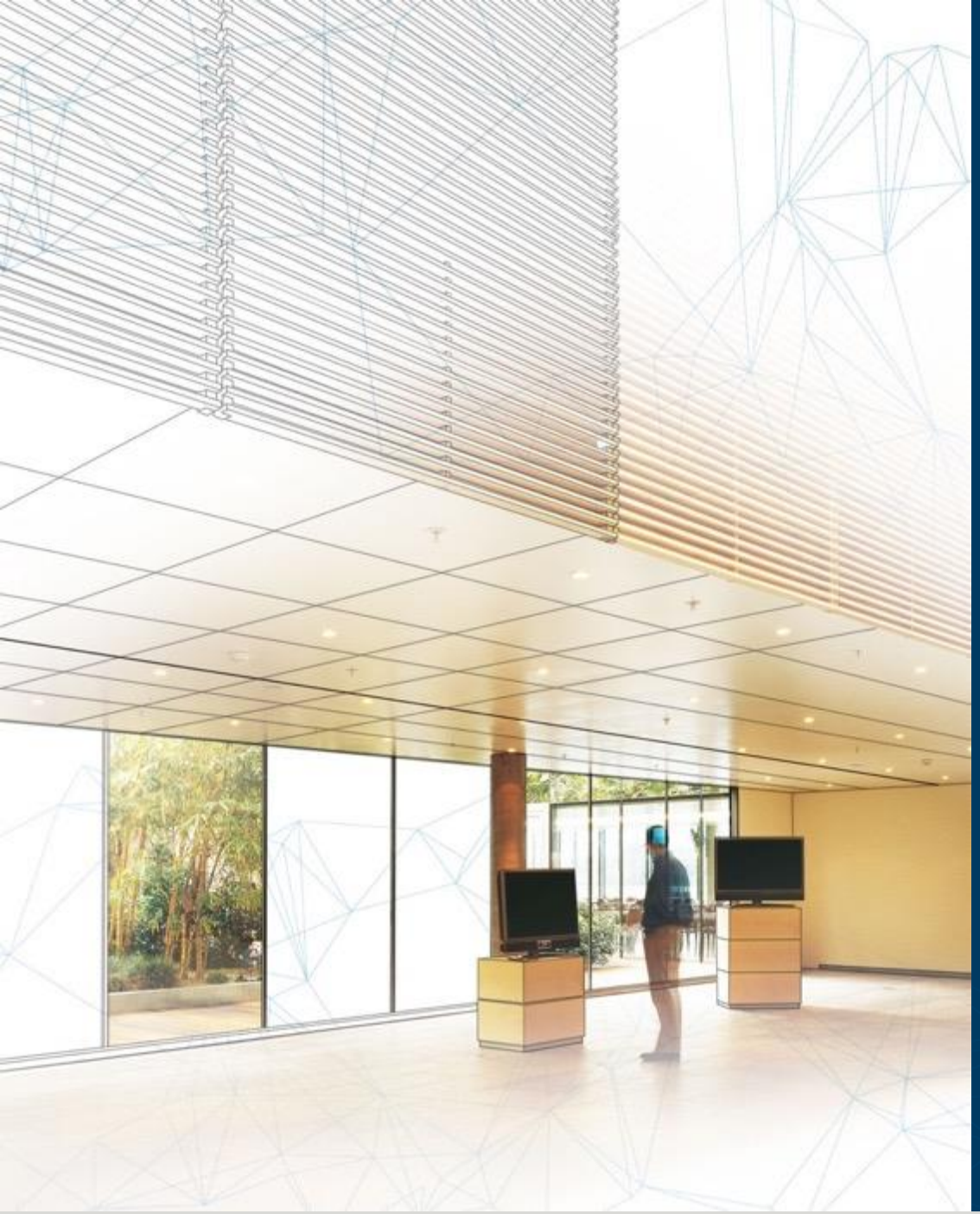

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Vielen Dank

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