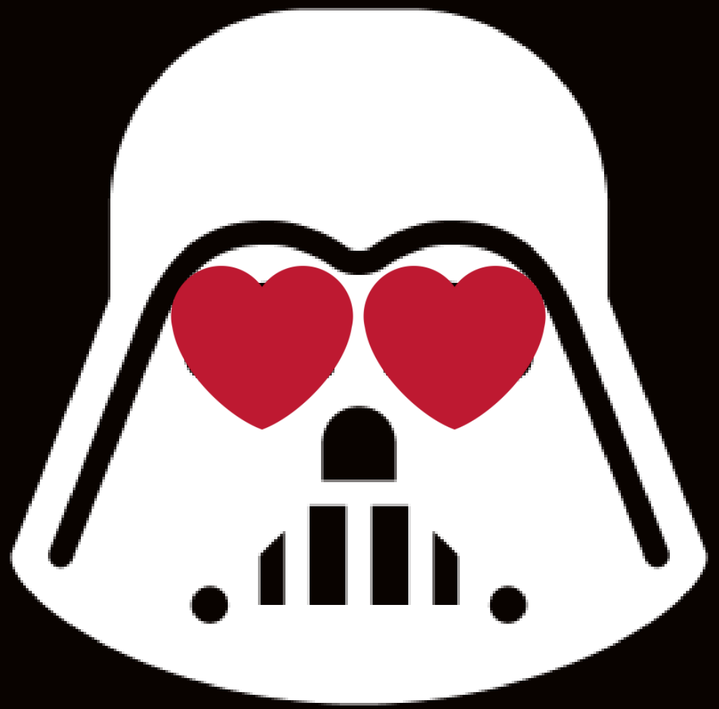
RISK EVENT 2019

No Risk No Glory

Come To Digital Transformation…

WE HAVE COOKIES!



Risk and value considerations for Digital Transformation

Bruno Horta Soares, CISA®, CGEIT®, CRISC™, PMP®

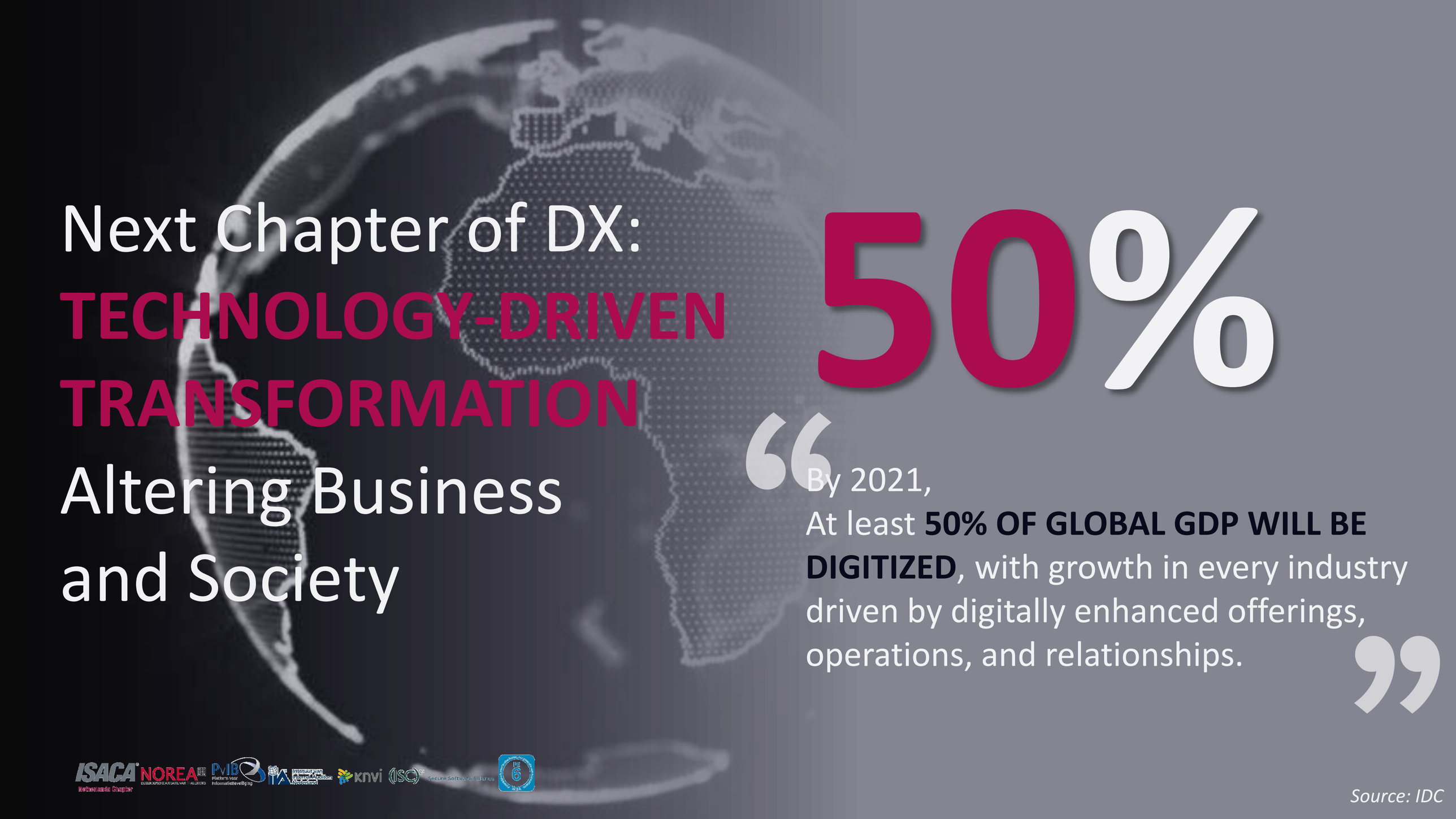
President, ISACA Lisbon Chapter

Leading Executive Advisor, IDC Portugal

welcome
message

Link:

https://www.youtube.com/watch?v=nFTRwD85AQ4&app=desktop



Next Chapter of DX:
TECHNOLOGY-DRIVEN TRANSFORMATION
Altering Business and Society

50%

"By 2021,
At least **50% OF GLOBAL GDP WILL BE DIGITIZED**, with growth in every industry driven by digitally enhanced offerings, operations, and relationships."

Source: IDC

… BUT THAT'S NONE OF MY BUSINESS!

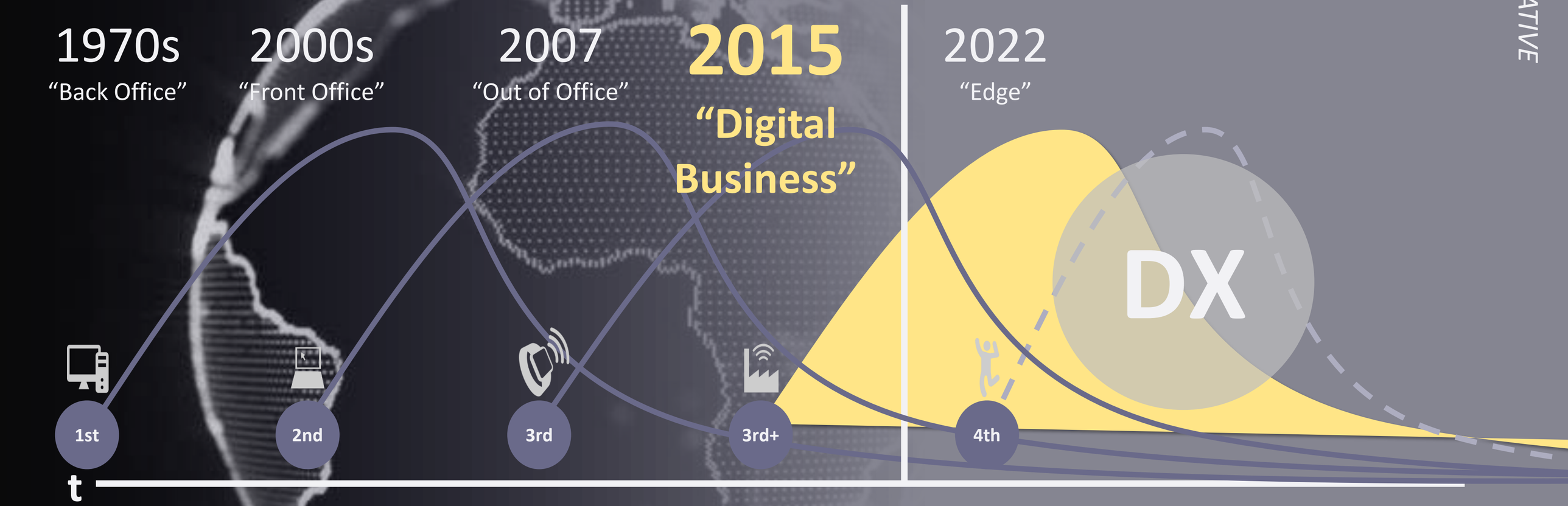
In less than a decade, new digital entrants have already seized a significant share of revenue across regions and industries — 17% on average, according to our findings, leaving only 83% to the incumbents.

… **WHILE DIGITAL ENTRANTS HOLD "ONLY" 17% OF TOTAL GLOBAL REVENUE, THEY OWN 47% OF DIGITAL REVENUE!**

McKinsey

LET'S GO SHOPPING MODEL

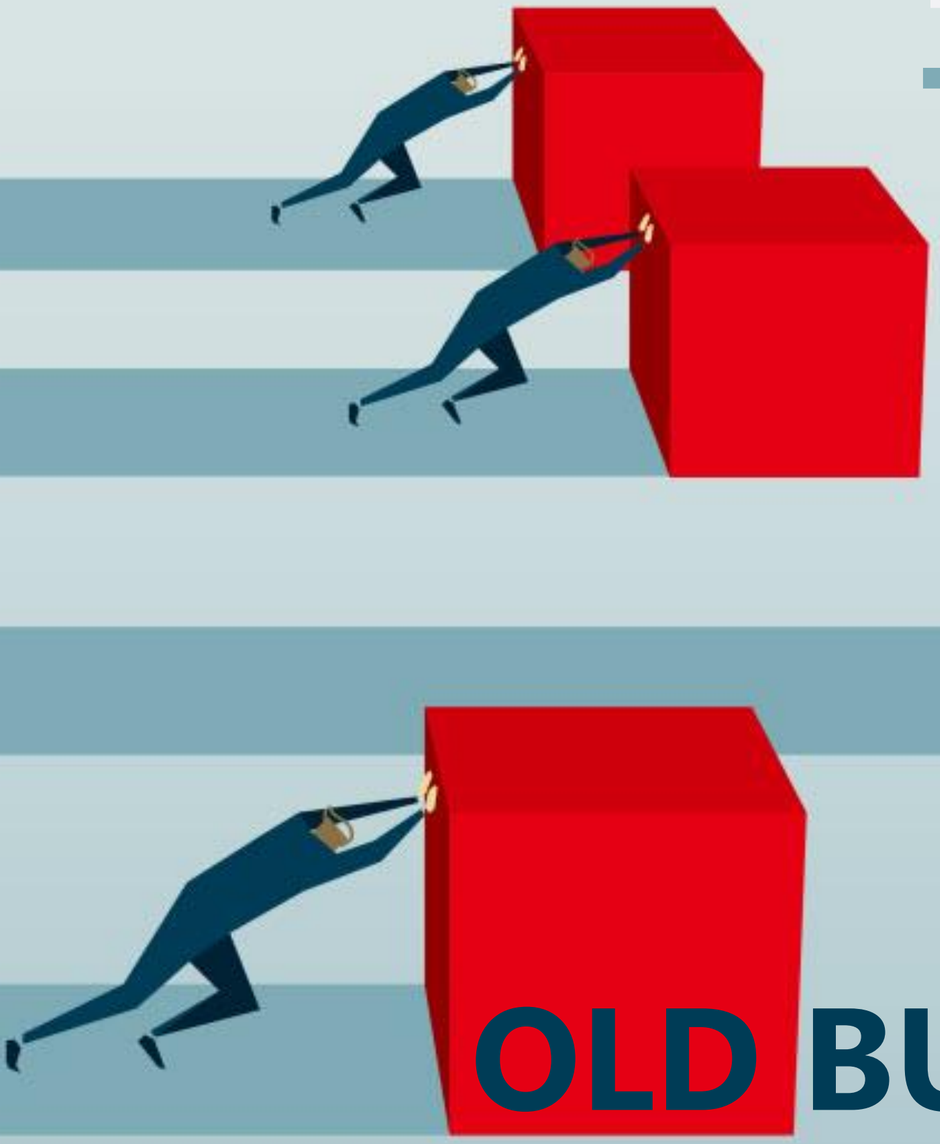
ILLUSTRATIVE



11.04.2019

THE DIGITAL PORTFOLIO

Digital TRANSFORMATION



It's **NOT** about getting your

OLD BUSINESS more **EFFICIENT!**

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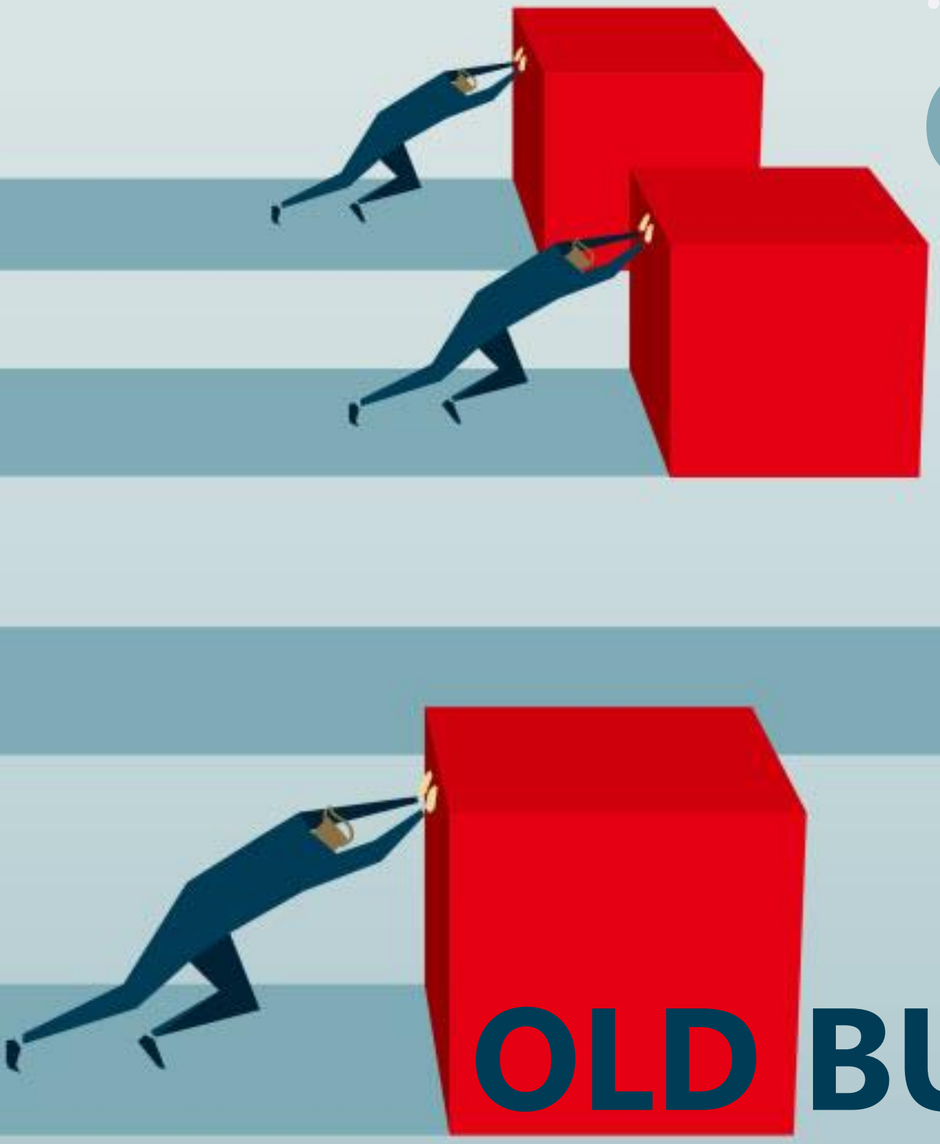

... SO,

CYBERSECURITY

It's **NOT** about getting your

OLD BUSINESS more **SECURE!**

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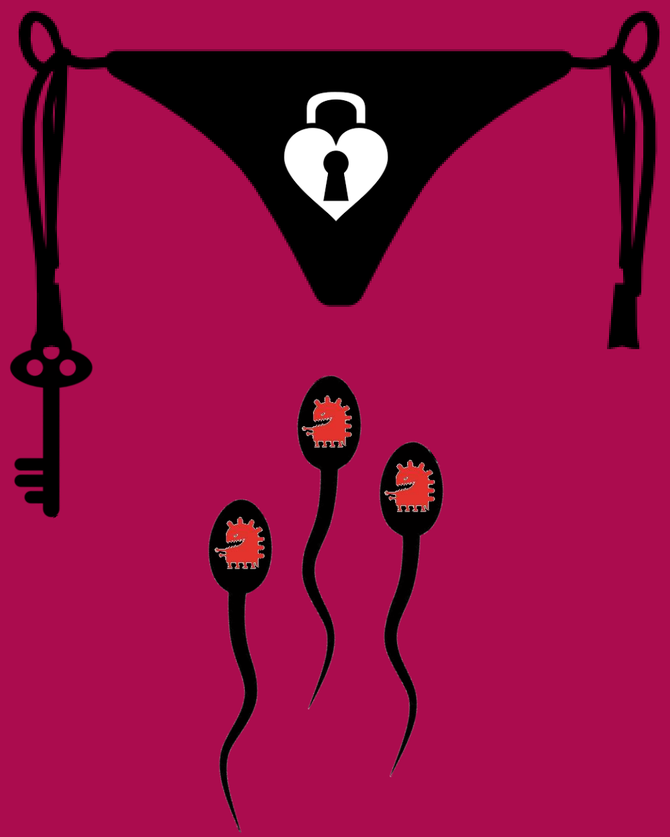
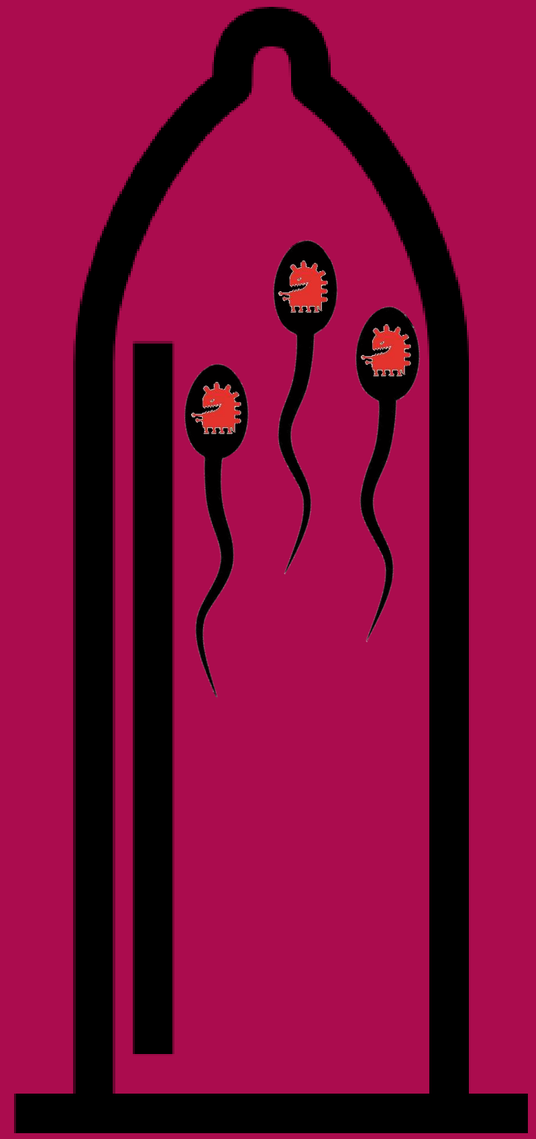


CYBER (IN)SECURITY

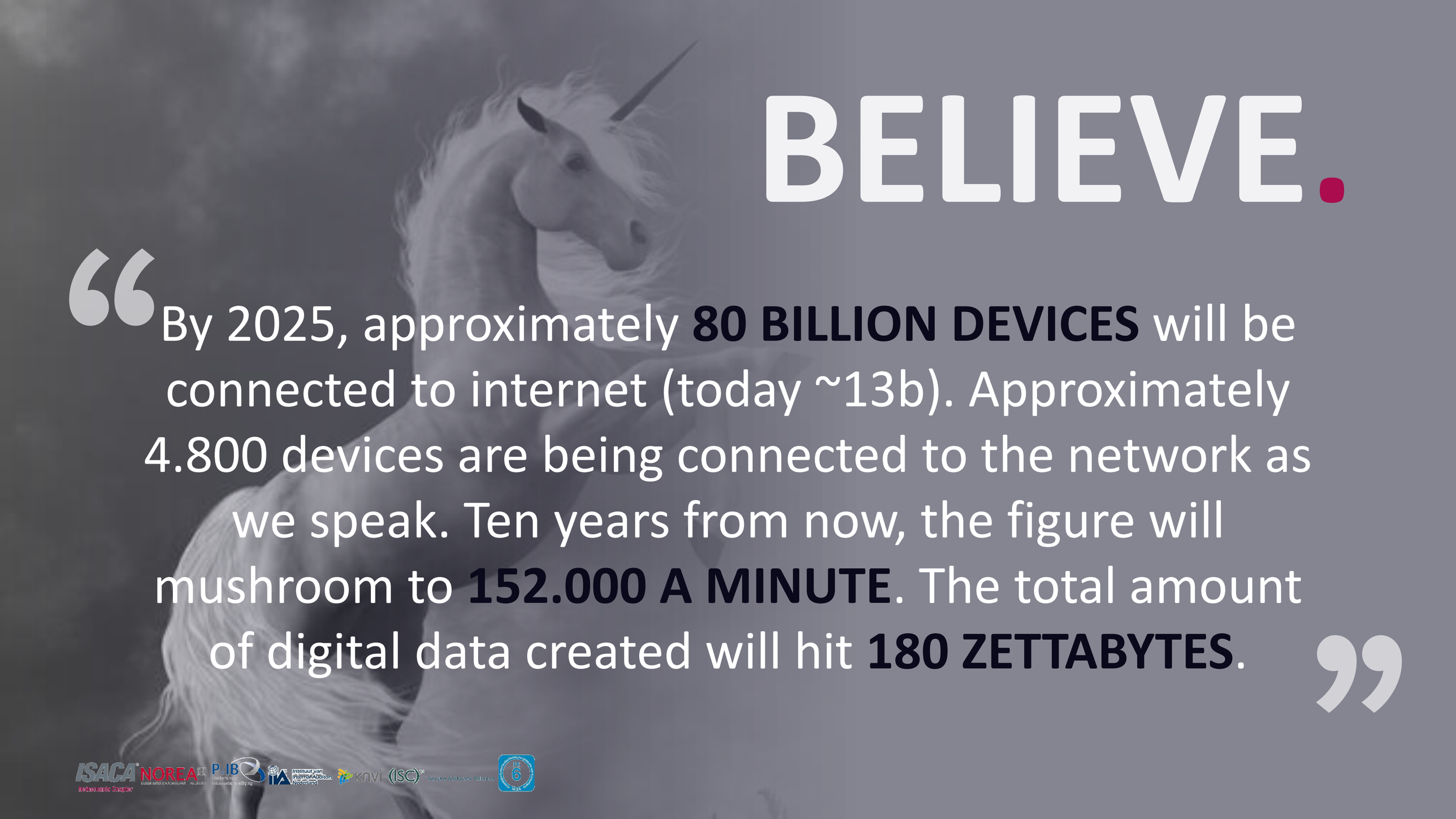
CONTAIN & CONTROL

REPLACE OUTDATED

PROTECT & DEFEND



VALUE CONSIDERATIONS



BELIEVE.

“By 2025, approximately **80 BILLION DEVICES** will be connected to internet (today ~13b). Approximately 4.800 devices are being connected to the network as we speak. Ten years from now, the figure will mushroom to **152.000 A MINUTE**. The total amount of digital data created will hit **180 ZETTABYTES**.”

DATA MON€TIZATION

70%

“By 2020,
70% of Western European enterprises will create **DATA MANAGEMENT AND MONETIZATION CAPABILITIES**, thus enhancing enterprise functions, strengthening competitiveness, and creating new sources of revenue.”

Source: IDC

THE CDO IS DEAD

LONG LIVE THE CEO

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WE ARE DETERMINED!

55%

“By 2020,
At least 55% of Western European organizations will be digitally determined, transforming markets and reimagining the future through **NEW BUSINESS MODELS AND DIGITALLY ENABLED PRODUCTS AND SERVICES**.”

Source: IDC

STRONG LOVE FOR COMPLEXITY

Simple philosophies, practices, and ideas are, ironically

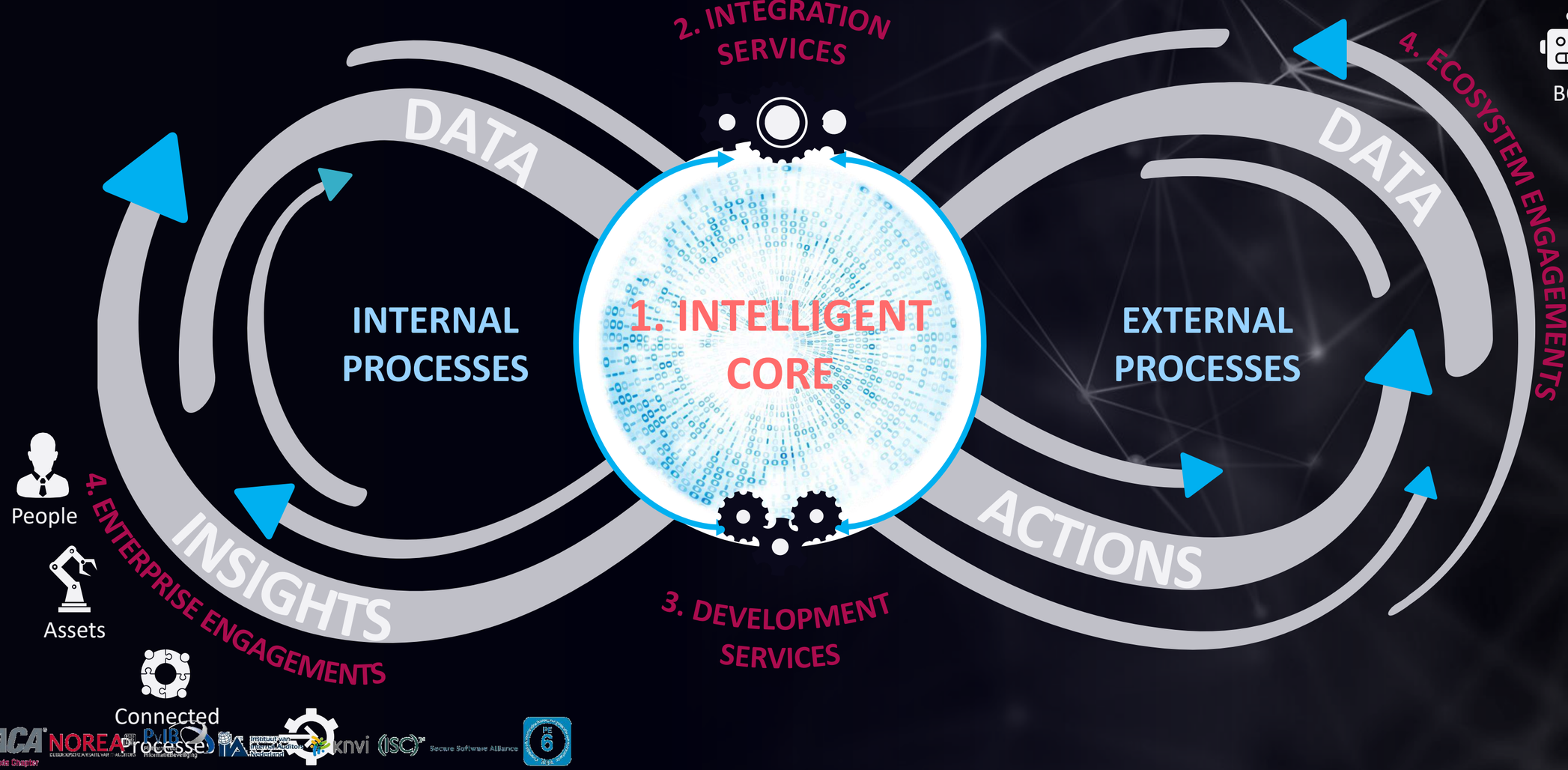
MORE UNLIKELY TO BE IMITATED BY OUTSIDERS AND COMPETITORS!

- The Knowing Doing Gap

Source: https://www.youtube.com/watch?v=gBnvGS4u3F0

DX PLATFORM

Overview



Source: IDC

DX PLATFORM

Receipt // Step #1

1. Ctrl + C
2. Choose File→New
3. Click the Blank Presentation tile
4. Ctrl + V
5. Replace All <MY COMPANY> with your company name

In **<MY COMPANY>** DX platform, everything is connected to everything else. Data comes in to **<MY COMPANY>** through connected assets, employees, connected processes, or as other data streams through APIs. This data circulates through the intelligent core, which can pull out insights from revenue streams. Those insights circle back into **<MY COMPANY>** as improved internal processes. But data also comes in through the ecosystem engagements through bots, mobile devices, AR/VR, connected vehicles, and so on. This data circulates through the intelligent core, which turns the data into actions to be taken when engaging with the ecosystem.

Source: IDC

DX PLATFORMS

25%

“By 2021,
Prominent in-industry value chains in Europe, enabled by blockchains, will have extended their digital platforms to their entire omni-experience ecosystems, thus **REDUCING TRANSACTION COSTS BY 25%.**”

Source: IDC

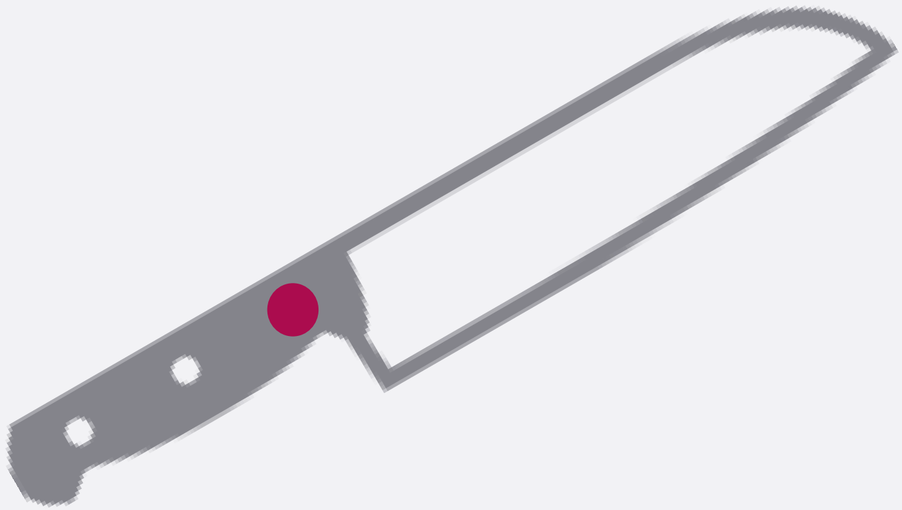
Digital transformation
Overview

Business Transformation

Digital Transformation

Leadership Transformation	Omni-experience Transformation	Workshource Transformation	Operationg Model Transformation	**Information Transformation**
❑ IT Strategy and Governance ❑ Leading in 3D ❑ Strategic architecture ❑ Services transformation ❑ Innovation Strategies	❑ Customer Experience ❑ Mobility strategies ❑ Devices: PCs, Mobility, Wearables and Augmented reality/Virtual Reality ❑ Social Business ❑ eCommerce	❑ Vendor Sourcing and Management ❑ IT Talent and Skills Management ❑ Outsourcing Services ❑ Organizational Dev. and Work Optimization ❑ Technology Training	❑ Enterprise Infrastructure ❑ AppDev and App Provisioning ❑ DevOps ❑ Cloud Strategies ❑ Transformative Tech: IoT, Robotics and 3D Printing	❑ **Enterprise/ NextGen Security** ❑ Enterprise Applications ❑ Information and Data Transformation ❑ Big Data and Analytics ❑ Cognitive Computing
Leadership mastery	**Relationship mastery**	**Talent mastery**	**Operational mastery**	**Information mastery**

Enterprise IT Transformation



RISK CONSIDERATIONS

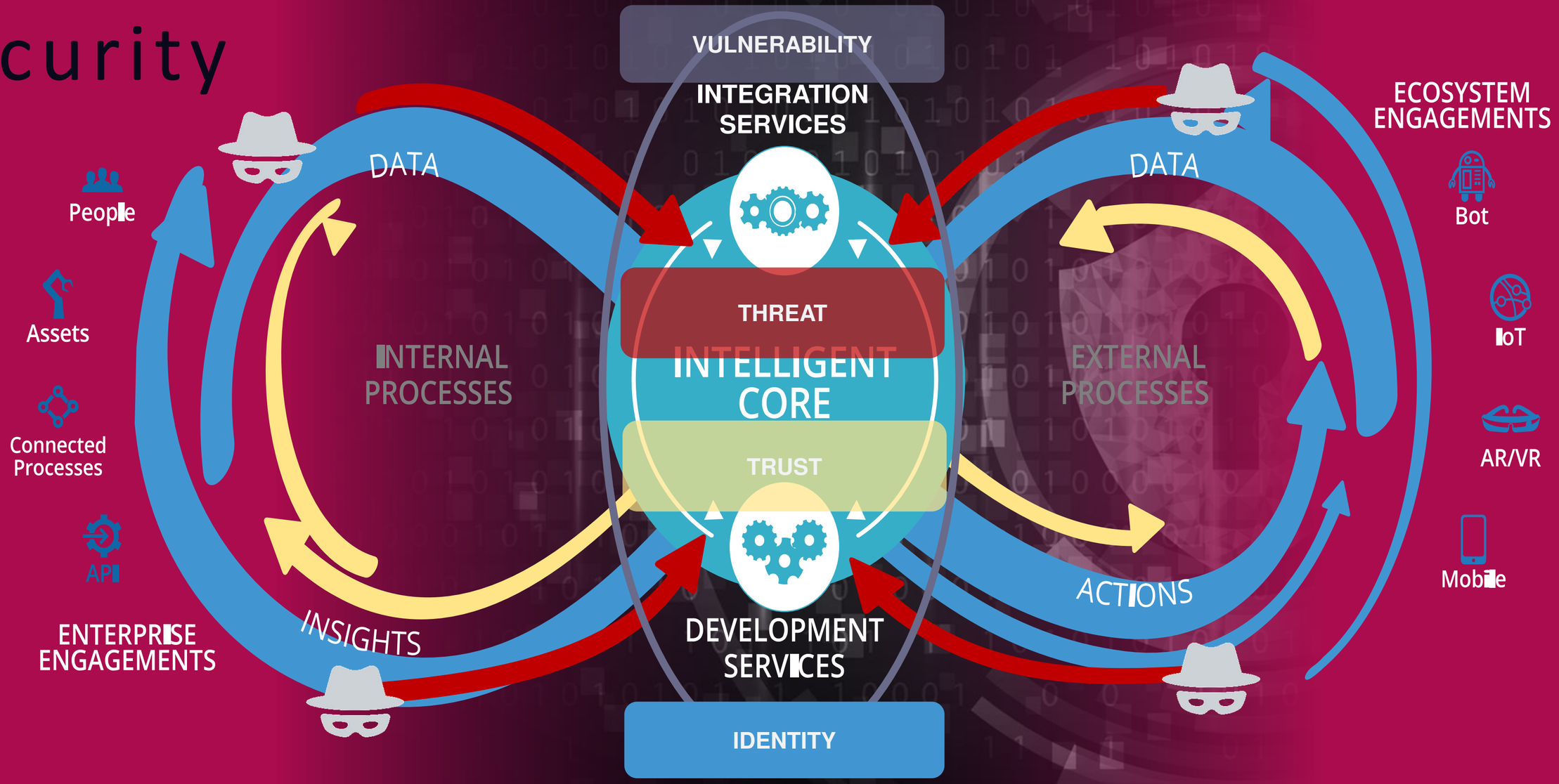
HOW DO YOU EAT AN ELEPHANT?

~~One bit at a time!~~

DON'T EAT MANAGE IT!

DX PLATFORM

Security



Source: IDC

DX PLATFORM

Receipt // Step #2

1. Ctrl + C
2. Choose File→New
3. Click the Blank Presentation tile
4. Ctrl + V
5. Replace All <MY COMPANY> with your company name

"In **<MY COMPANY>** DX platform, everything is connected to everything else **based on a risk assessment that determines necessity and may restrict access within sessions or transactions.** Data comes in to <MY COMPANY> through connected assets, employees, connected processes, or as other data streams through APIs **that have been authenticated based on the assessed risk. this data, which may be encrypted and is monitored for attacks and compromises**, circulates through the intelligent core **where security analytics are applied to aggregated content**, which can pull out insights from revenue streams or **identify threats in progress**. Those insights circle back into <MY COMPANY> as improved internal processes, **while the threat activity provides information for hardening the environment and the security posture**. But data also comes in through the ecosystem engagements through **authenticated** bots, mobile devices, AR/VR, connected vehicles, and so on. This data, **which may be encrypted and monitored for malicious activity**, circulates through the intelligent core, which turns the data into actions **for protecting the ecosystem** to be taken when engaging with the ecosystem."

Source: IDC

ADOPTION OF THREAT LIFE-CYCLE

90%

“90% of managed security services customers will adopt **THREAT LIFE-CYCLE SERVICES** by 2024, rising from 50% in 2019.”

Source: IDC

We realize that there is a

HUGE CRISIS OF CYBERSECURITY PROFESSIONALS

when

MR. ROBOT

grows a chevron mustache and wants to succeed as a POP/Rock

SINGER!

AUTOMATED RESPONSE TO ALERTS

50%

“By 2021,
fully 50% of legitimate security alerts
will have an **AUTOMATED RESPONSE, UNTOUCHED BY HUMAN ANALYSTS**.”

Source: IDC

IDC Security Roadshow

NUMBER OF CYBERSECURITY COMPANIES DROP

40%

“In 2019, there are roughly 1,400 companies offering cybersecurity services or products of significance; by 2023, the **NUMBER OF CYBERSECURITY COMPANIES WILL DROP** by nearly 40% from 2019.”

Source: IDC

CAN A COMPANY BE BRAVE WHEN

AFRAID?

THAT'S THE ONLY TIME A COMPANY IS

BRAVE!

-"NERD STARK"

SO… UNDERSTANDING

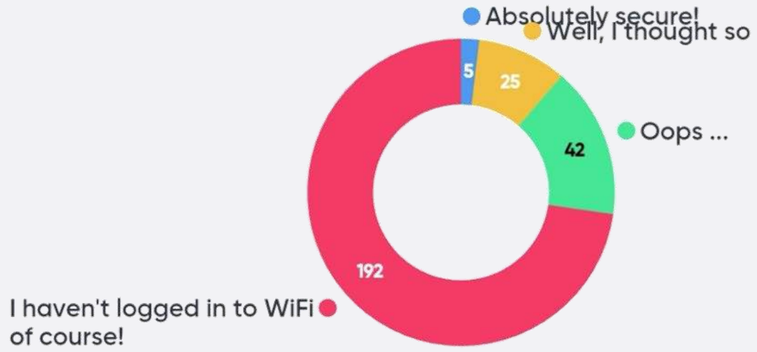
[AFRAID] SECURITY

IS ENOUGH TO UNDERSTAND

[BRAVE] RISK?

Mentimeter

Is the WiFi you logged in to secure?



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Digital Transformation

Link:

https://www.youtube.com/watch?v=4CmyV5Ghxeg

#HAZARD

#RISK

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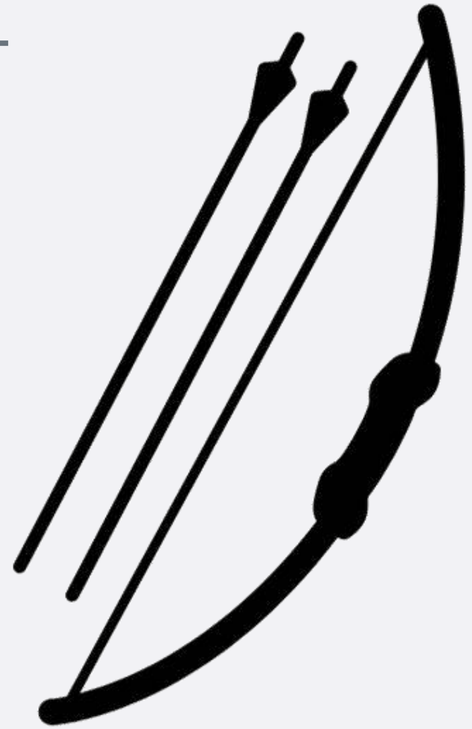
#HAZARD



#RISK

“**RISK**: The combination of the **probability** of an **event** and its **consequence**. Risk is mitigated through the use of controls.

ISO/IEC 73”

#GOALS
KEY ELEMENT

#THREATS

[Malicious; Accidental; Error; Failure; External Requirement]

#ACTORS

[Internal; External]

#MITIGATE

[Organizational, People, Process and Technologies]

“If it's my fault, I'll put it in whoever I want!”

Hommer Simpson

#TRANSFER

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#ACCEPT

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#ASSET

~~#RISK~~

~~#HAZARD~~

[PERSONAL] DATA →

INFORMATION → KNOWLEDGE → VALUE

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What’s Next?

Information Value
End-to-end aproach

COBIT 2019

Information STRATEGY

Are we doing the right things?

Information ARCHITECTURE

Are we doing them right way?

Information OPERATIONS

Are we doing?

Information VALUE

Are we getting the benefits?

Information DELIVERY

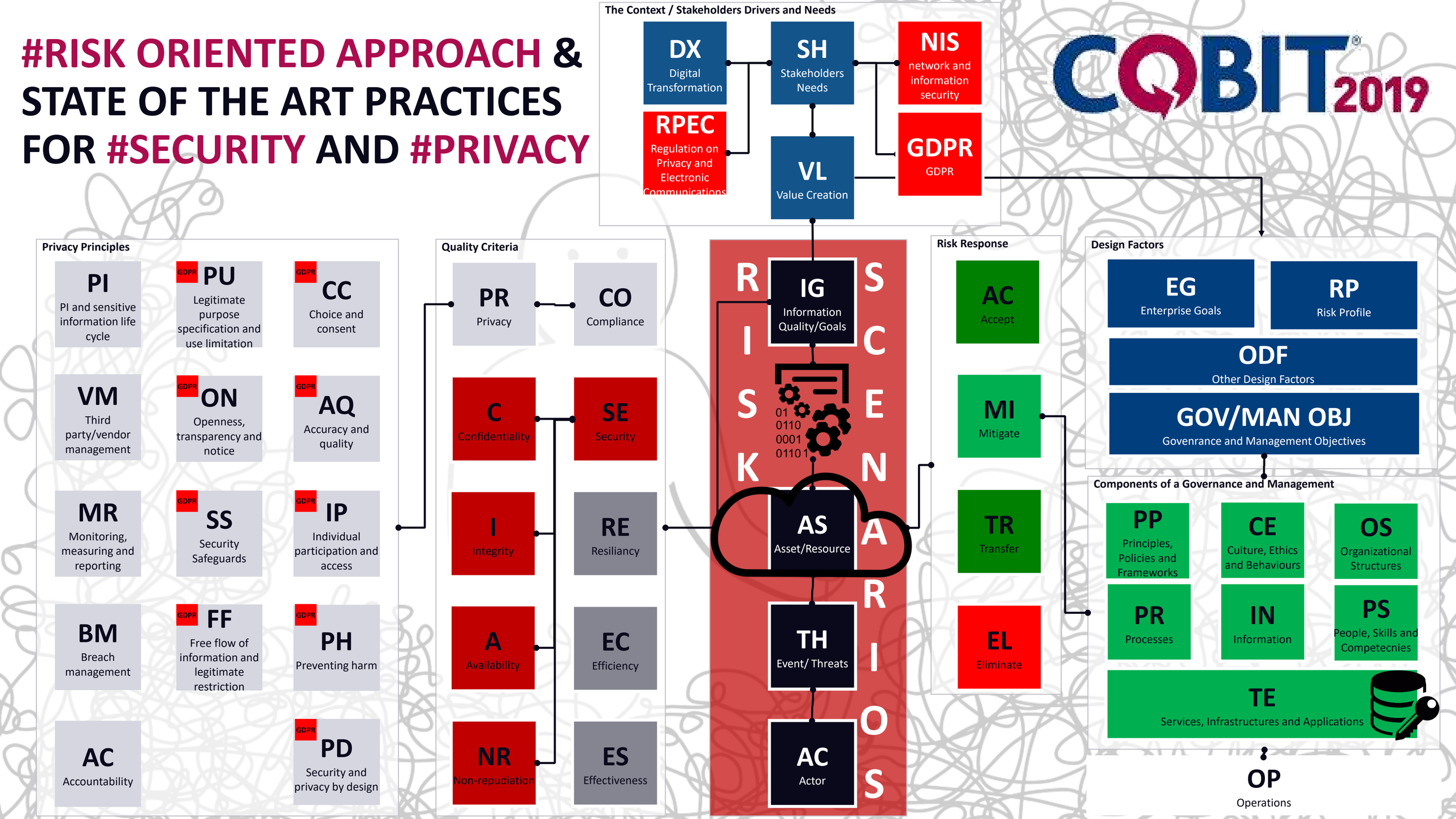
Are we getting it done well?

Information OPERATIONS

Is it working?

“ENCRPYTION OF PERSONAL DATA IN THE CLOUD”

#RISK ORIENTED APPROACH & STATE OF THE ART PRACTICES FOR #SECURITY AND #PRIVACY



FOREWARNED IS FOREARMED

RISK DEV OPS

THE BUYER IS ALWAYS RIGHT

And the

WORLD

LIVED

HAPPILY

ever after!

QUANTUM COMPUTING

25%

“By 2024,
Quantum computing will have evolved enough that 25% of nation-states will have the **MEANS TO DECRYPT CURRENT PUBLIC KEY INFRASTRUCTURE TECHNOLOGIES**.”

Source: IDC

With regard to

PERFORMANCE,
COMMITMENT,
EFFORT,
DEDICATION,

there is no middle ground.
Or you do something

VERY WELL OR NOT AT ALL!

Ayrton Senna

Obrigado | Bedankt

My contacts

online

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