

Cyber Security obsolete ? Speak about Cyber Resilience Now !



09/02/2023

Embracing technology
Embracing ambition



Eric Van Cangh

Senior Business Group Leader Cyber Security

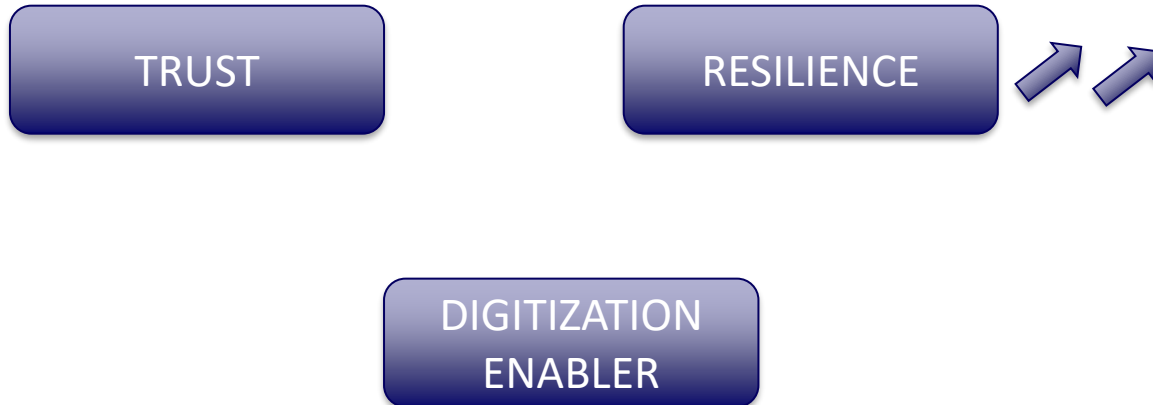
.AGORIA

Agenda

- **Introduction**
 - Value proposition
- **Cyber Security Basics**
 - Set the scene
 - Understand the specificities of IT / OT world
- **Importance of Cyber Resilience**
 - Definition
 - Why is CS obsolete?
- **How to achieve Cyber Resilience ? The Building Blocks**
 - Strategic level – ABC for Executive
 - Tactic level – ICD processes
 - Operational Level – AOA Matrix
- **Conclusion**

Introduction – Value Proposition

- The Value proposition of Cyber Security



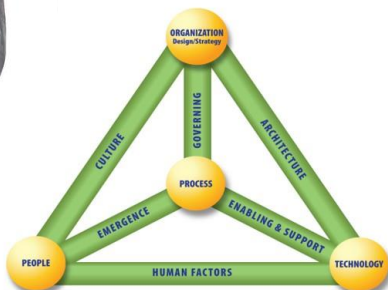
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Set the scene – CyberSecurity ?



The Security triad
Confidentiality , Integrity , Availability



All the means to secure/protect the
information at People, Process and Technology level

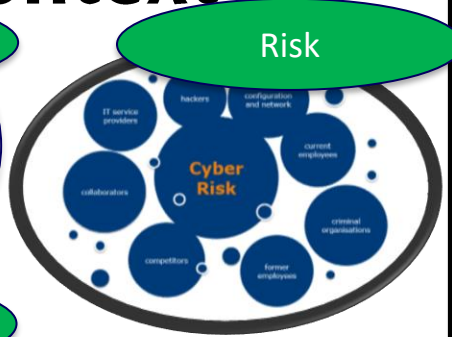
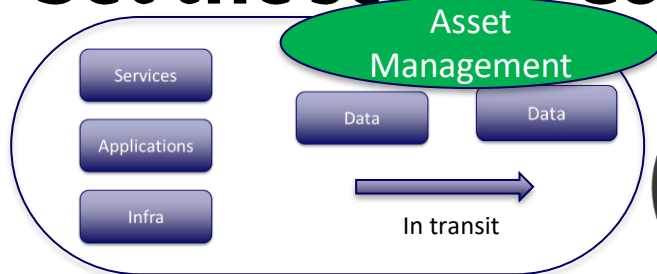
[https://cio-wiki.org/wiki/Business_Model_for_Information_Security_\(BMIS\)](https://cio-wiki.org/wiki/Business_Model_for_Information_Security_(BMIS))

How to implement CS activities?

“The 3-legged stool of People-Process-Technology”



Set the scene - Context



Attributs de Sécurité	Besoin en Sécurité			
C rating	Correctement classifié			
I rating	Correctement classifié			
A rating	Correctement classifié			
Business Owner	Correctement Inventorier	I	A	R
Technical Owner	Correctement Inventorier	I	A	R
Subject Matter Expert (SME) Owner	Correctement Inventorier	I	A	R
CMDB owner	Correctement Inventorier	I	A	R
ENV Environment	Correctement Inventorier	I	A	R
RTO	Besoin en Continuité	C	A	R
RPO	Besoin en Continuité	C	A	R
Web facing	Protégés (gérer risques)	R	R	A
OS (operating system)	Complétude des attributs de sécurité	I	A	R
Config admin group	protégés (accès)	A	R	C
CI Status	Décomissionné en fin de vie	R	A	I
Security OPERATIONAL STATUS				
Classe = CI Type	Correctement Inventorier	I	A	R
Asset type	Correctement Inventorier	I	A	R
Asset subtype	Correctement Inventorier	I	A	R
Last review date	Complétude des attributs de sécurité	I	A	R
Creation date	Demande création actif	R	A	C
Antimalware (installed)	Protégés (gérer risques)			
ISO_SEC_location	Besoin en Continuité			
CMDB field properties	Complétude des attributs de sécurité			
Security Impact (yes/no)	Protégés (gérer risques)	R		

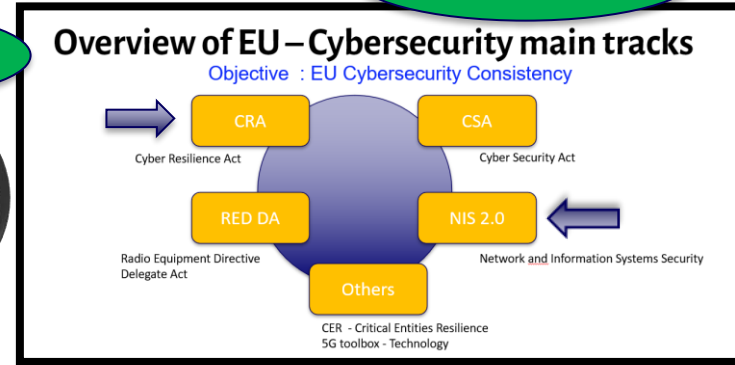
Ownership

- Confidentiality
- Integrity
- Availability
- Privacy
- Safety

Attributes

Classification: Internal

Compliance



Nis 2.0 – Network and Information Security Directive

In nutshell

- European directive
- Cybersecurity package of measures
- Further improving the resilience and incident response capabilities
- Set the baseline Security framework inline with trends of Digitalization
- Center for Security Belgium – Single point of contact with European Cooperation Group
- New 2:0 Notion of **Essential** and **Important entities**
- New 2:0 **Scope extended** compared with NIS 1.0
- Impact for Members (ongoing)

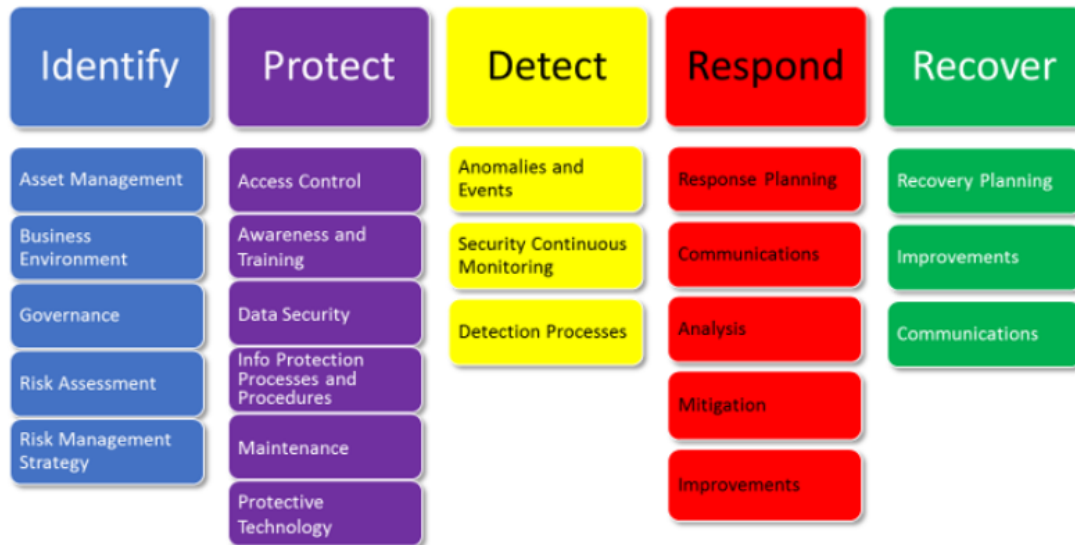
Verticals

TBC: ICT service management Services could potentially be considered as an essential entities (Council proposition)

National Institute of Standards and Technology

NIST – the 5 Cyber Security functions

NIST Cyber Security Framework



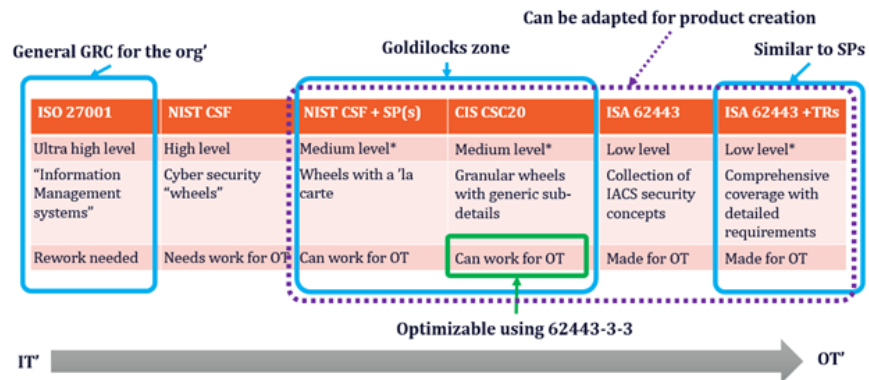
<https://www.nist.gov/cyberframework/online-learning/five-functions>

Classification: Internal

IT/OT World

Blending IEC 62443 with other frameworks and standards

IEC 62443 standards are fully compatible and mostly map directly with other well-known guidance such as the NIST CSF. There can be, however, substantial differences in language and application that require the use of OT-specific overlays and adaptation of IT variations in order to manage exceptions in a converged OT/IT environment. Getting the best of both worlds requires organizations to get a little creative.



Understand the specificities of IT / OT world

ANSI ISA/IEC 62443

Security Challenges in IACS / OT are

- The relative criticality of **data confidentiality** in facility operations or functions.
- Unique approaches to ensure systems **reliability** and **integrity** in industrial environments.
- Potential **dangers** to personnel, the environment, and society in the event of cyber-physical failures. = **SAFETY**
- The increased need for **compensating controls** to protect **legacy** IACS/OT systems.
- The relative **difficulty** of applying common IT security techniques without severe systems modifications.
- Prospects for **financial loss** due to an **incident**-related drop in productivity.

AVAILABILITY

SAFETY

LEGACY

DIFFICULTY

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RESILIENCE DEFINITION

“Resilience is the process and outcome of **successfully adapting** to difficult or challenging life experiences, especially through mental, emotional, and behavioral flexibility and adjustment to external and internal demands.”



AMERICAN PSYCHOLOGICAL ASSOCIATION

What Is Resilience?

Resilience is the **ability to cope with and recover from** setbacks. People who remain calm in the face of disaster have resilience.^[1] People with psychological resilience are able to use their skills and **strengths** to respond to life's challenges, which can include those related to:

- [Death of a loved one](#)
- [Divorce](#)
- [Financial issues](#)

something that happens that causes a delay or prevents a process from continuing:



erhui1979 | Getty Images (*)

<https://www.entrepreneur.com/leadership/7-keys-to-developing-resilience/329053>

<https://www.verywellmind.com/what-is-resilience-2795059>

Why is CS obsolete ?

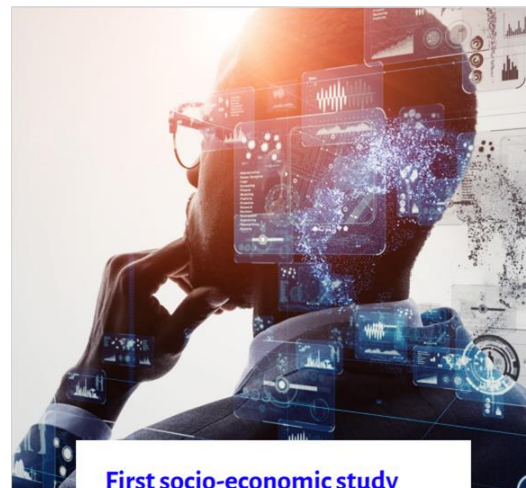
- You need to understand the context

4000 openstaande vacatures, 100 cyberaanvallen per dag



Eric Van Cangh (Agoria), Dominique Demonte (Agoria), Ludvine Dedonder (MOD), Kolonel Pierre Ciparisse (Defensie), Miguel Debruycker (CCB), Filip Verstockt (Orange Cyberdefense)

<https://www.tijd.be/>



**First socio-economic study
on the cyber security sector
in Belgium**

November 2022

Embracing technology
Embracing ambition

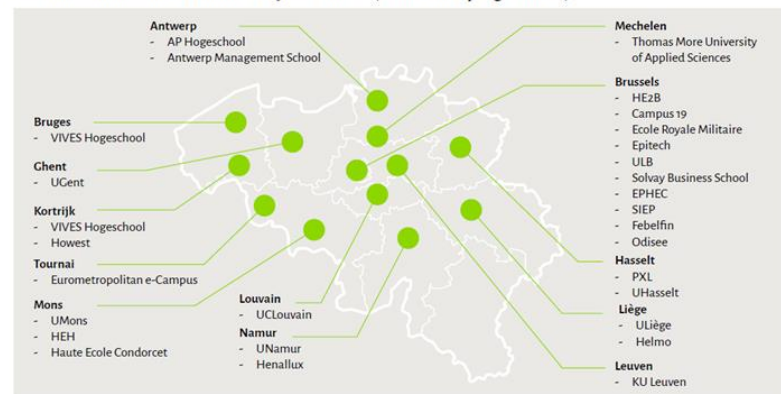
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Belgium's cyber security ecosystem

Cyber security providers and services

* Cyber security providers		** Cyber security services	
Generalists	Organisations that offer multiple cyber services	Consulting and audits	
Consultants	Consultants regarding cyber security services	Certification and accreditation	
Integrators	Organisations that integrate products and components in industrial environments	Security products (SW, HW, SECaaS, Insurance)	
Specialists (Pure players)	Organisations that focus on one specific cyber domain	Security solutions (Integrations & Engineering)	
Specialists (Niche players)	Organisations that focus on one specific sector or vertical (e.g., telecom, public services, insurance)	Managed security services (Monitoring, Detection & Response)	
Training, education and certification entities	Organisations that mainly offer cyber education and certifications	Forensics and incident handling (CIRT, CERT)	
Innovators	Start-ups and scale-ups that focus on an innovative product or service	Security training, education and certification	
		Research, development and innovation	

Overview: main schools that offer cyber courses (excl. online programmes)



The Belgian cyber security landscape (2021)

441
Companies

441 companies active in cyber security



€1.58 billion

Total sales figure
in cyber security



€600 million

Total value added
in cyber security



0.1%

of the Belgian GDP

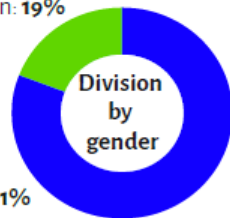


6,405 FTEs

Total employment
in cyber security



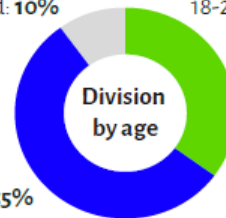
Women: **19%**



Men: **81%**

50+ years old: **10%**

18-29 years old: **35%**



30-50 years old: **55%**

The Belgian cyber security landscape (2021)



1,205

Total number
of vacancies in the
cyber security sector



16%

Vacancy rate cyber security sector
which is much higher than:
Vacancy rate **Belgian IT sector**: 9.1%
Vacancy rate **Belgian economy**: 5%



16.4%

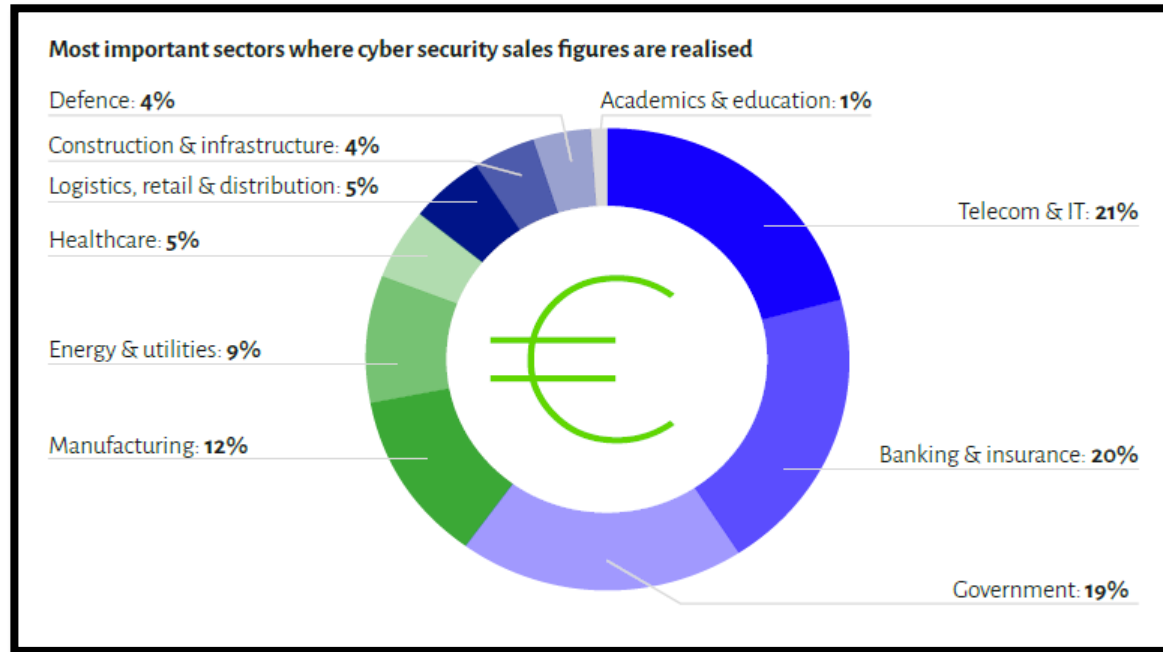
Export percentage



42%

doesn't export at all

The Belgian cyber security landscape (2021)



Cyber Security is based on risk



EU Adopts NIS2 to Strengthen Cyber Security Risk Management

▲ Luke Irwin 📅 6th December 2022

The European Union has adopted a new cyber security directive that intends to improve cyber resilience and incident response across a range of sectors. It replaces the [NIS Directive](#), which came into force in 2018 but has been widely criticised for its ineffective requirements.

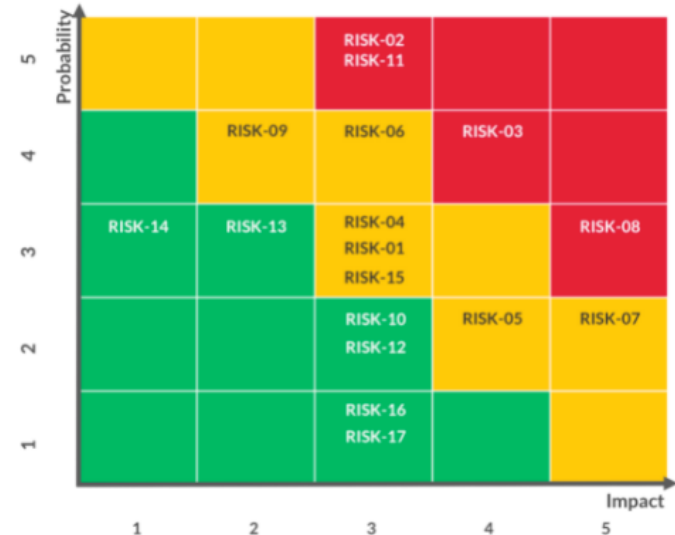
<https://www.itgovernance.eu/blog/en/eu-adopts-nis2-to-strengthen-cyber-security-risk-management>

What is a risk? – in a nutshell

- $R = P \times I$
- “FROC” risks (*)
- Quantitative
- Qualitative
- Risk appetite
- Risk tolerance



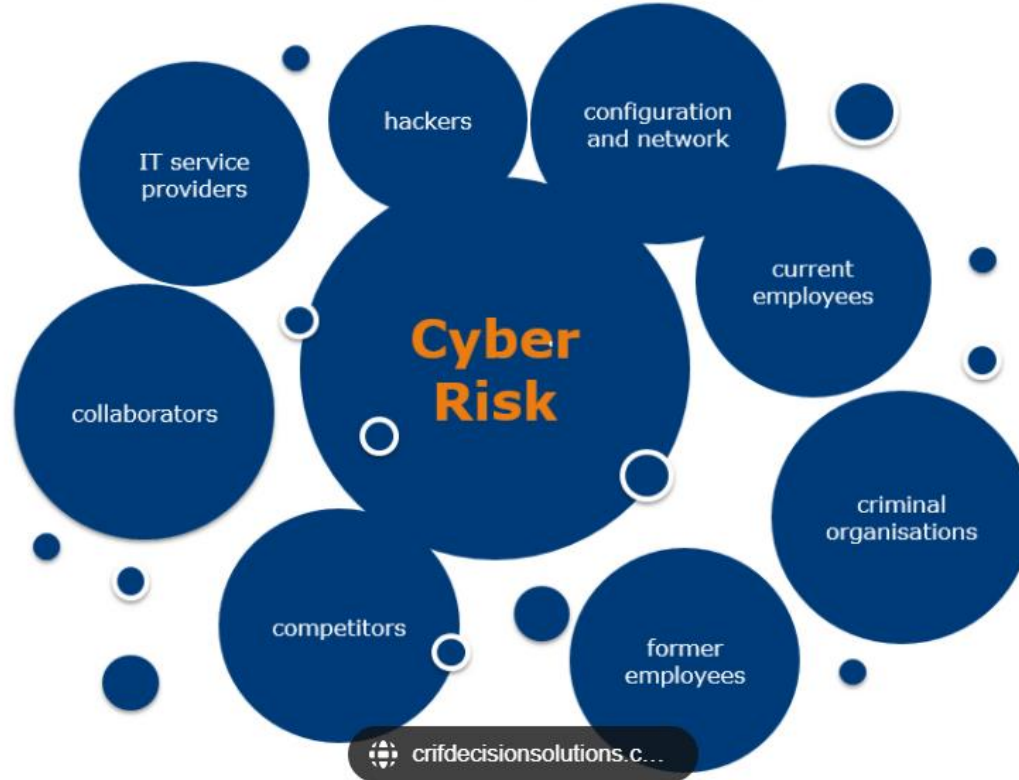
(*) Financial, Reputational, Organizational, Compliance



If you are not familiar with risks , adress this point quickly

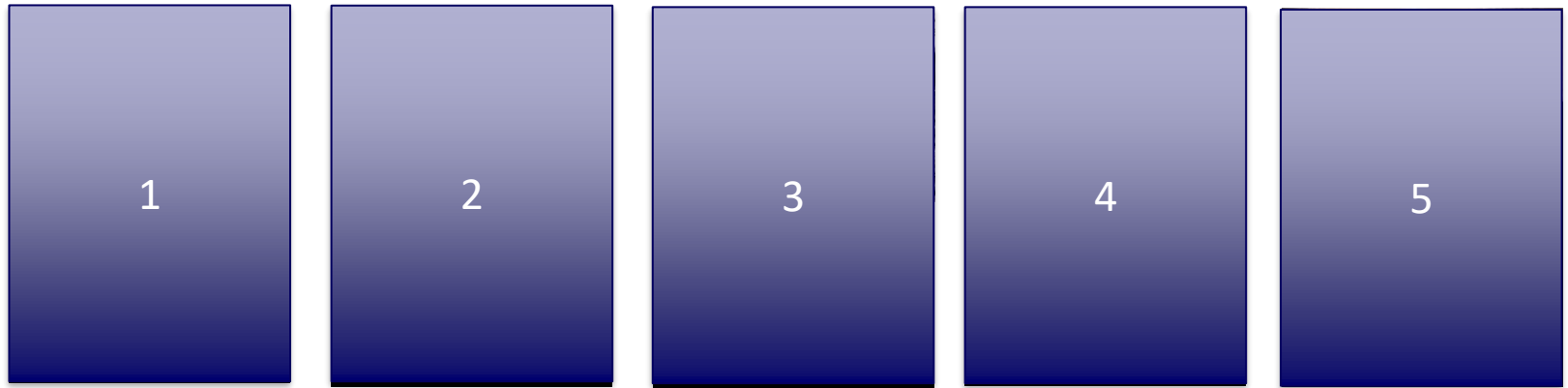
<https://firebrand.training/uk/learn/pmp/course-material/project-risk-management/qualitative-risk-analysis>

Cyber risks ?



Who's attacking?

- Main attacks actors



Cyber risks – Belgium as a target?

Home / Short News / Politics / The Capitals / Belgium suffers major cyberattack

Belgium suffers major cyberattack

By Georgi Gotev | EURACTIV.com

May 5, 2021



Victimes d'une cyberattaque, MediaMarkt ne peut plus assurer certains services à la clientèle

Les 24 magasins belges spécialisés en électronique et en électroménager sont privés de service après-vente et de click & collect à cause d'un ransomware touchant les serveurs informatiques de la maison mère d'Allemagne.



November 2021

MAY 2021

January 2021

Cyberattaque contre un hôpital à Tournai: "Nous sommes écoeurés" confie le directeur général

RTE, RTD et JdM. Julien Caste: publié le 18 janvier 2021 à 10h00
<https://www.rtl.be/info/belgique/fats-divers/cyberattaque-d-un-hopital-a-tournai-nous-sommes-ecoeures-confie-le-directeur-general-127908.aspx>

Cyberattaque à la clinique de Bouge: les consultations de ce mardi annulées



Par C.A. Publié le 17/10/2020 à 17:02

June 2021

Belgian city Liege hit by cyber-attack

Tuesday 22 June 2021 16:17 CET | News
 The Belgian city of Liege has been hit by a large cyber-attack. The municipality said on Twitter that multiple public services were not available as a result. The cause of the attack is unclear.

<https://www.telepaper.com/news/belgian-city-liege-hit-by-cyber-attack-136760>

October 2021

Ce samedi, la clinique Saint-Luc de Bouge a été la proie d'une cyberattaque. Ce lundi matin, les experts fédéraux ainsi que le service informatique de l'hôpital ont analysé la situation. La décision a été prise d'annuler les consultations de ce mardi. La situation sera réévaluée par la suite.

[Cyberattaque à la clinique de Bouge: les consultations de ce mardi annulées - Édition digitale de Namur \(sudinfo.be\)](#)

European Oil Port Terminals
 Hit by Cyberattack

February 2022



Antwerp, Belgium's main port, was one of those where oil trading firms systems were hacked by suspected ransomware attackers.

Credit: EMMANUEL DUNAND/AFP

ZDNet
 @ZDNet

Belgian Defense Ministry confirms cyberattack through Log4j exploitation

December 2021

zdnet.com
 Belgian Defense Ministry confirms cyberattack through Log4j ex...
 The Defense Ministry said it first discovered the attack on Thursday.

Belgium 4th in world for cybercrime

Tuesday, 1 March 2022

By Helen Lyons

<https://www.brusselstimes.com/justice-belgium/208033/belgium-4th-in-world-for-cybercrime>

Mastercard reveals record levels of cybercrime in Belgium during the pandemic

JANUARY 31, 2022

<https://www.mastercard.com/news/europe/en/newsroom/press-releases/en/2022/january/mastercard-reveals-record-levels-of-cybercrime-in-belgium-during-the-pandemic/>

22

Cyber risks – Belgium as a target?

<https://www.cyberlands.io/topsecuritybreachesbelgium>

May 2022

July 2022

#7 Belgium's Parliament and Universities Suffered from a Coordinated Cyberattack

In May 2022, the workflow of a vast number of universities, parliamentary and scientific institutions was affected as a result of a "large-scale attack". The official sources revealed that Belnet, a Belgium-based Internet service provider that is widely used by the country's key infrastructure, has been targeted by ransomware.

Unknown hackers committed a distributed denial of service (DDoS) attack, aimed to disrupt the functioning of specific online services by overloading servers with data. Though the attackers didn't manage to breach or steal any data, Belnet's clients were still affected, with all of them being either completely or partially cut off from the Internet. Overall, as a result of the DDoS attack, the company confirmed over 200 private and public organizations were impacted.

Once the incident was discovered, the Belnet team immediately applied its crisis procedures and contacted the Center for Cybersecurity Belgium (CCB) to bring the attack under control. Though the company reassured publicity that they're continually investing in cybersecurity, the constantly changing tactics of the attackers make it more and more challenging to neutralize these incidents.

#8 Vivalia Patient Data Is Claimed to Be Compromised

Another healthcare-related cybersecurity incident occurred in May 2022 in Luxembourg province, Wallonia: as a result of a ransomware attack, Belgian private hospital group Vivalia switched to manual record management. According to the official information, the group controls seven hospitals and six residential care centers providing over 1,600 beds for patients, which makes this incident one of the largest in healthcare in recent years.

The detailed incident investigation has revealed that attackers managed to access the company's network and encrypt the system files on it – around 400 GB of patient and hospital data. A Cybercriminal group called Lockbit claimed themselves responsible for the attack and threatened to expose the stolen data to a dark web forum if the ransom is not paid off.

Overall, the attackers said they are in possession of patient data, their illnesses, employee data, and "much more" from four medical trusts. The Vivalia manager reported on his Twitter account, that the authorities had been notified of the case, and it "is currently being processed by the judicial police and the cybersecurity unit."

#9 Federal Ministries Suffering from the Attack: Chinese Hackers Were Accused

In July 2022, the Belgian Ministry of Foreign Affairs accused Chinese hackers of committing cyberattacks against the Federal Defence and Interior Ministries. China was called to take the necessary actions to investigate and resolve the situation.

During the internal investigation, Belgium's Cybersecurity center discovered the key goal of the attackers was to obtain sensitive data from the Ministry of the Interior, which they'd been successfully doing for over 2 years. The experts have also investigated the numerous attacks on the Ministry of Defense in 2021. These resulted in disrupting the Ministry's network performance. Being cut off from the Internet for weeks, its staff was not able to communicate via email and perform the key tasks within the organization.

Another security issue mentioned by the Ministry is the case of purchasing the Huawei wifi routers at the start of 2022, which are considered to significantly compromise the national security in many countries. A similar case was detected in Hikvision and Dahua video surveillance equipment, which had insufficient security systems.

Sept 2022

#10 Belgian Hospital Center Fell Victim Due to a Massive Cyberattack

L'organisme d'assistance routière Touring victime d'une cyber-attaque



Pieterjan Van Leemputten
Pieterjan Van Leemputten est rédacteur chez Data News.

L'organisme d'assistance routière Touring est la victime d'une cyber-attaque depuis une semaine déjà. Le service est entre-temps restauré en grande partie, mais les ordinateurs ne fonctionnent pas encore comme ils devraient.

Dec 2022

ACCUEIL • BELGIQUE • POLITIQUE

Anvers touchée par une cyberattaque: Bart De Wever affirme ne pas avoir payé de rançon

Les autorités locales se sont limitées à dire qu'elle faisait tout son possible pour réactiver certains services.



Belgian Prime Minister, Mr Decroo November 2022

« Nous devons sensibiliser nos entreprises et surtout les rendre **résilientes** »



« La question n'est plus aujourd'hui de savoir **SI** votre entreprise ou votre organisation va être touchée mais **QUAND** cela va se passer »

Classification: Internal

New threats

AVAILABILITY

SAFETY

LEGACY

DIFFICULTY

▪ Phishing -> Ransomware -> Wiperware -> Killware

- Not simply to encrypt the victim's data
- but rather to render a system essentially **unusable**. (no more protection)

Primary Objective -> Destroy the Master Boot Record (MBR)

Ukrainian Targets Hit by HermeticWiper, New Datawiper Malware



Mayuresh Dani, Manager, Threat Research
March 1, 2022 - 7 min read

👍 27

<https://blog.qualys.com/vulnerabilities-threat-research/2022/03/01/ukrainian-targets-hit-by-hermeticwiper-new-datawiper-malware>

Killware Puts the Healthcare Industry on High Alert

At a high level, killware is a ransomware attack that could result in physical harm, including loss of life, if a ransom isn't paid. By raising the stakes in this way, cybercriminals are putting more pressure on victims to pay the ransom.

Hospitals and other healthcare organizations are increasingly at risk for these types of attacks, given system downtime of any kind -- even minutes -- could prevent critical patients from getting the treatment they need to survive. The world witnessed the detrimental consequences of killware in the [attack](#) on Springhill Medical Center in Alabama.

<https://www.informationweek.com/security-and-risk-strategy/killware-the-most-dangerous-evolution-of-ransomware->

ICS / OT cyber risk

The Hacker News
 319 105 abonnés
 15 min •

13/04/2022

Russian hacker group "Sandworm" attempted to sabotage the operation of Ukraine's power grid with a new destructive variant of the #Industroyer malware.

Read details: <https://lnkd.in/d5T3EqKg>

#infosec #cybersecurity #hackernews #infosecurity #tech

Voir la traduction

Russian Hackers Tried Attacking Ukraine's Power Grid with Industroyer2 Malware

thehackernews.com • Lecture de 3 min

"The attackers deployed **Industroyer2** in the ICS network alongside another version of the **CaddyWiper** sabotage malware, presumably to **slow down the recovery process** and prevent the utility operators from regaining control of the ICS consoles. ESET first discovered CaddyWiper in Ukraine on March 14, when it was deployed in a bank's network.

In addition, ESET also discovered **Wiper** malware for **Linux** and **Solaris** called ORCSHRED, SOLOSHRED and AWFULSHRED on the target electricity provider's network."

lemondeinformatique.fr/actualites/lire-ember-bear-un-groupe-de-cybercriminels-russe-tres-actif-86402.html

AVAILABILITY

SAFETY

LEGACY

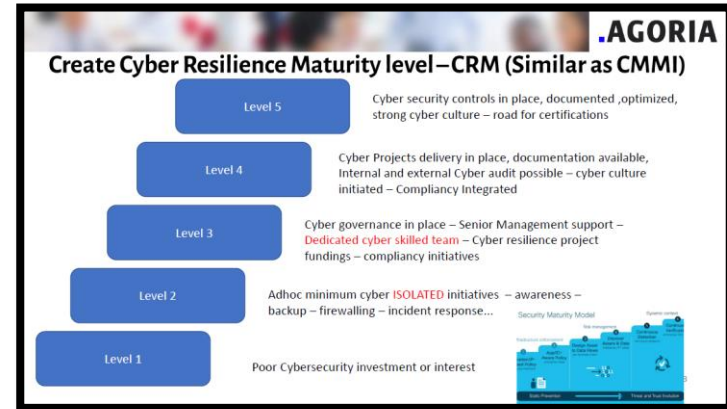
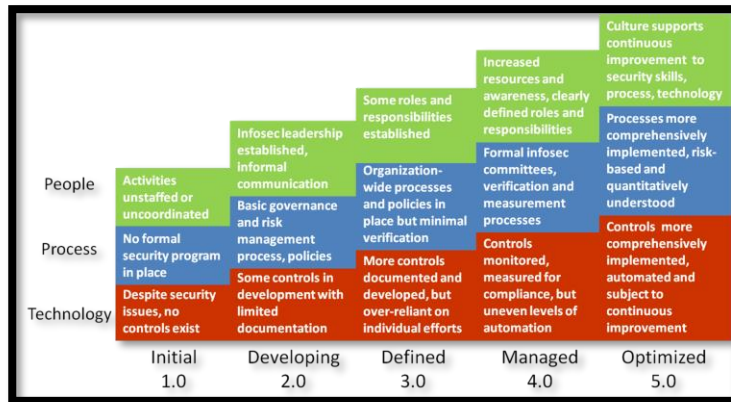
DIFFICULTY

- More and more sophisticated attacks
- Can combine different techniques (Wiper/DDOS)
- Can attack multiple layers/techno at same time

Move cyber security to cyber resilience

- Cyber Security is not enough anymore (focus on TRUST)
- Speak about **Cyber Resilience** -> limit the impact of CyberCrime (FROC)

GOAL : to ensure operational and business continuity with minimal impact.



Examples of Resilience Maturity level

Classification: Internal

Move cyber security to cyber resilience

Cyberfundamentals Framework

The **Cyberfundamentals Framework** is a set of concrete measures to:

- protect data,
- significantly reduce the risk of the most common cyber-attacks,
- increase an organisation's cyber resilience.

The Levels

To respond to the severity of the threat an organisation is exposed to, in addition to the starting level **Small**, 3 assurance levels are provided: **Basic, Important and Essential**.



Small

The starting level **Small** (coming soon) allows an organisation to make an initial assessment. It is intended for micro-organisations or organisations with limited technical knowledge.

LEVEL SMALL
▼ (COMING SOON)

Basic

The **assurance level Basic** contains the standard information security measures for all enterprises. These provide an effective security value with technology and processes that are generally already available. Where justified, the measures are tailored and refined.

LEVEL BASIC
▼ DOWNLOAD

Important






The **assurance level Important** is designed to minimise the risks of targeted cyber-attacks by actors with common skills and resources in addition to known cyber security risks.

LEVEL IMPORTANT
▼ DOWNLOAD

Essential

The **assurance level Essential** goes one step further and is designed to address the risk of advanced cyber-attacks by actors with extensive skills and resources.

LEVEL ESSENTIAL
▼ DOWNLOAD

The NIS 2 Directive Proposal proposes key changes		
	Risk ownership*	<p>Management bodies will have a crucial and active role</p> <p><i>"Management bodies of the entities falling within the scope of this Directive should approve the cybersecurity risk measures and supervise their implementation"</i></p>
	Enforcement	<p>Competent Authorities can impose Administrative fines up to 10 million EUR or 2% of the total global annual turnover of the company</p> <p><i>"Member States shall ensure that competent authorities have adequate resources to perform, in an effective and efficient manner, the tasks assigned to them"</i></p>
	Security Requirements	<p>NIS2 provides a list of security measures that shall be implemented</p> <p><i>"Member States shall ensure that essential and important entities shall take appropriate and proportionate technical and organisational measures to manage the risks posed to the security of network and information systems"</i></p>
	Supply Chain Security	<p>Entities should perform due diligence of their supply chain</p> <p><i>"Entities should assess and take into account the overall quality of products and cybersecurity practices of their suppliers and service providers, including their secure development procedures"</i></p>
	Incident reporting	<p>Entities should submit an initial notification within 24 hours from occurrence of significant incidents</p> <p><i>"Member States should ensure that the requirement to submit initial notification does not divert the reporting entity's resources from activities related to incident handling that should be prioritized"</i></p>

*Commission's proposal for the Directive on measures for a high common level of cybersecurity across the Union, repealing Directive (EU) 2016/1148

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STRATEGIC LEVEL – ABC FOR EXECUTIVE

Asset
Management

What are my assets that I need to protect?
Identify your critical processes -> BIA (Business impact Analysis)

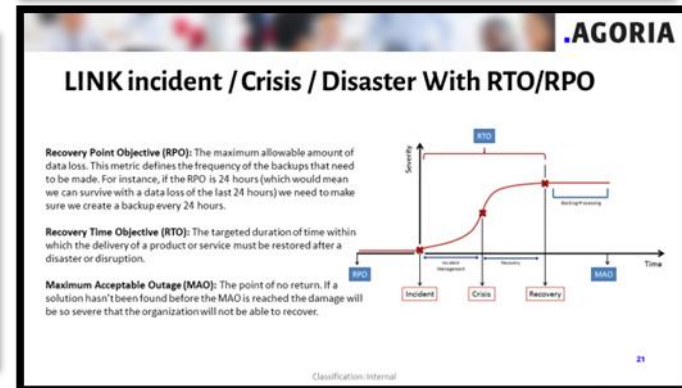
Business
Modelling

How my customer value proposition are depicted under services, supported by applications , hosted on servers , based on specific network segmentation , in specific Data center/cloud location

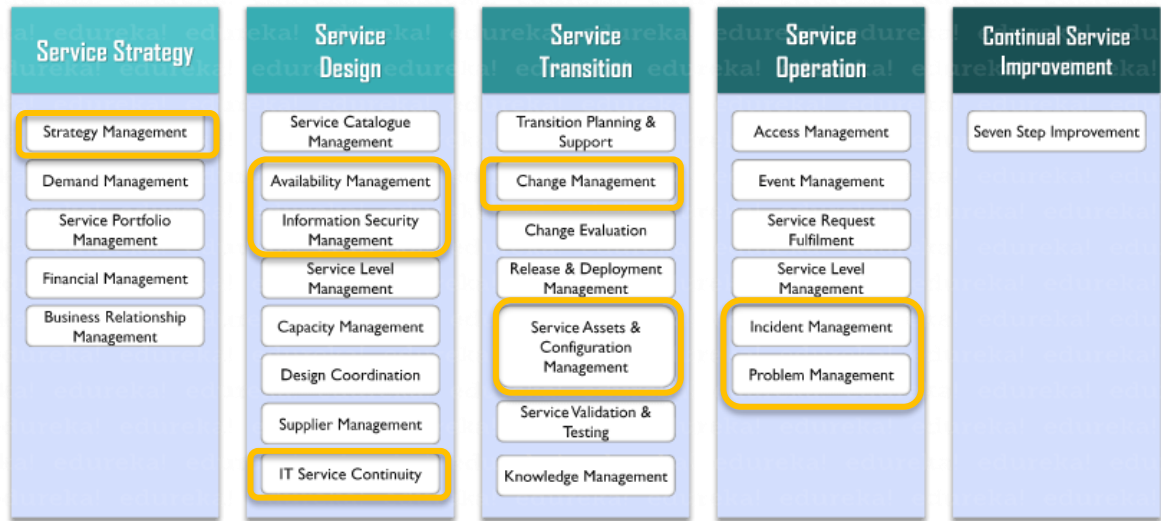
Continuity

How my BIA (Business impact Analysis) will be transposed to a BCP/DRP process / Exercise ?
Business Continuity / Disaster Recovery Processes

Disaster BCP management



ITIL v3 (*) illustrate importance of some Cyber Security Processes



ITIL® v3 is built on 26 processes which have been segregated into 5 service lifecycle stages. These are:

1. Service Strategy
2. Service Design
3. Service Transition
4. Service Operations
5. Continual Service Improvement (CSI)



ITIL® is one of the most heavily used ITSM (**) frameworks

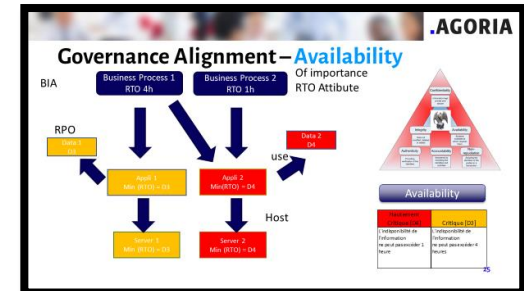
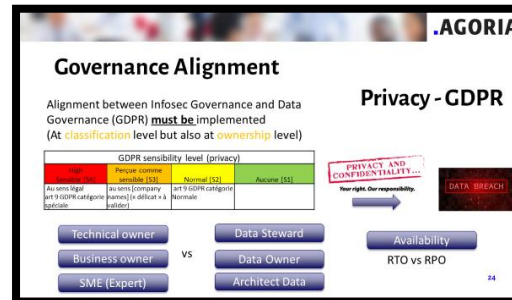
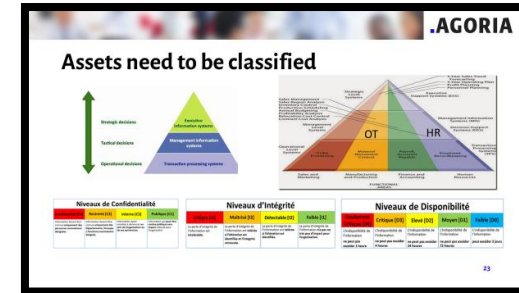
(*) v4 is out in 2020

(**) IT Service Management

Alignment

BO / TO / SME

RTO / RPO

[illegible]

Scoop – Resilience in human centric



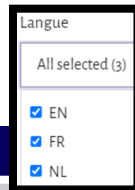
Resilience in cyberspace has traditionally focused on networks, systems and infrastructure, reflecting the primacy of national security and a broadly technical approach to the securitization of assets.⁷ However, across organizations and governments, there is a growing recognition that *societal resilience* to cyber threats is an important component of resilience. In a cyberspace that is innately non-neutral and not just technical, societal resilience must be human-centric. *It must centre and protect the needs of the most vulnerable and marginalized if it is to be truly resilient.*

How to achieve Cyber resilience ?



www.agoria.be/agenda

Lang	Date	Location
NL	12/01	Leuven
FR	20/01	Louvain-la-Neuve
NL	17/02	Brugge
FR	06/03	Nivelles
NL	20/03	Aalst
FR	18/04	Louvain-la-Neuve
NL	20/04	Mechelen
NL	11/05	Leuven
FR	June	Namur (TBC)
NL	08/06	Kortrijk



Agenda

- **Introduction**
 - Value proposition
- **Cyber Security Basics**
 - Set the scene
 - Understand the specificities of IT / OT world
- **Importance of Cyber Resilience**
 - Definition
 - Why CS is obsolete ?
- **How to achieve Cyber Resilience ? The Building Blocks**
 - Strategic level – « ABC for Executive »
 - Tactic level – « iCD processes »
 - Operational Level – « AOA Matrix »
- **Conclusion**

Conclusion

“Cyber resilience is a mindset to adopt”

Eric Van Cangh: "Cyberveerkracht is een must-have mindset"
Eric Van Cangh: «La cyber-résilience est un état d'esprit à adopter»



Publié le 14/10/22



En ce mois de la cybersécurité, notre expert Eric Van Cangh, business group leader Cyber Security partage sa vision de la cybersécurité dans les entreprises belges. Chez Agoria depuis un an, il a lancé le groupe CMiB – Cyber Made in Belgium – qui réunit et fédère les entreprises membres expertes en cybersécurité.

<https://www.agoria.be/fr/digitalisation/cybersecurite/nouvelles>
<https://www.agoria.be/nl/digitalisering/cybersecurity/nieuws>

« It is not anymore a question of IF but WHEN »

« Focus on the Value proposition »

« Everybody within an organization has a role to play in the cyber resilience process »

« Overall Belgium has all the Assets to become on a top Cyber resilience Nation »

Questions & Answers

Thank you for your attention



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