



CENTRE FOR  
CYBERSECURITY  
BELGIUM

# ● Transposition of the Network and Information Security (NIS) 2 Directive in Belgium

NIS Team CCB, 18/10/2024

Centre for Cybersecurity Belgium  
*Under the authority of the Prime Minister*



# Why a NIS2 Cybersecurity Law?

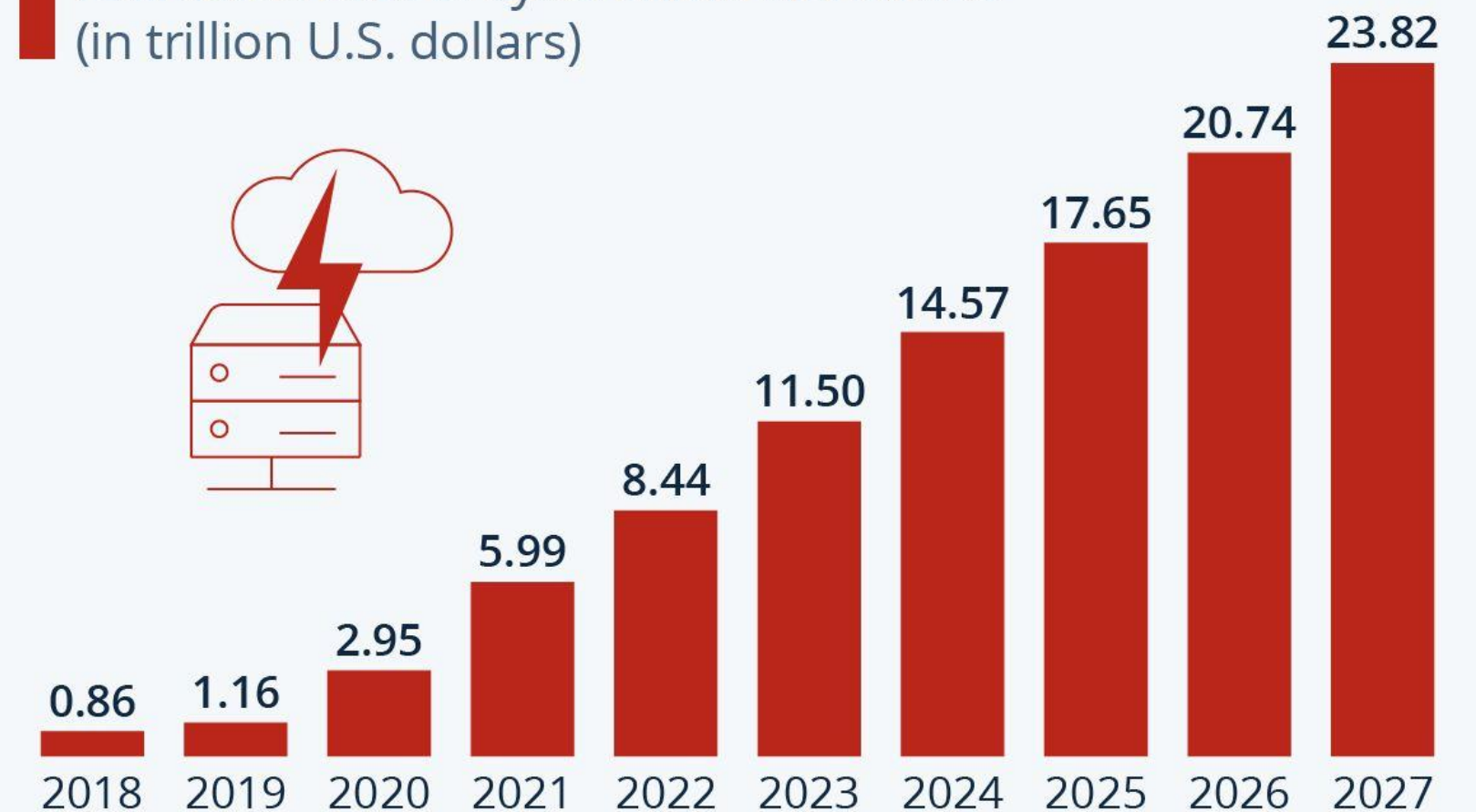


# ● Most important Cyber threats

- **RANSOMWARE**
  - 57.8% increase year over year
- **ONLINE FRAUD**
  - Doubled last year
- **DDOS**
  - On average 10/month in BE
- **ESPIONAGE**
- **NEW TECHNOLOGIES**
  - Artificial Intelligence

## Cybercrime Expected To Skyrocket in the Coming Years

Estimated cost of cybercrime worldwide  
(in trillion U.S. dollars)



As of November 2022. Data shown is using current exchange rates.

Sources: Statista Technology Market Outlook,  
National Cyber Security Organizations, FBI, IMF

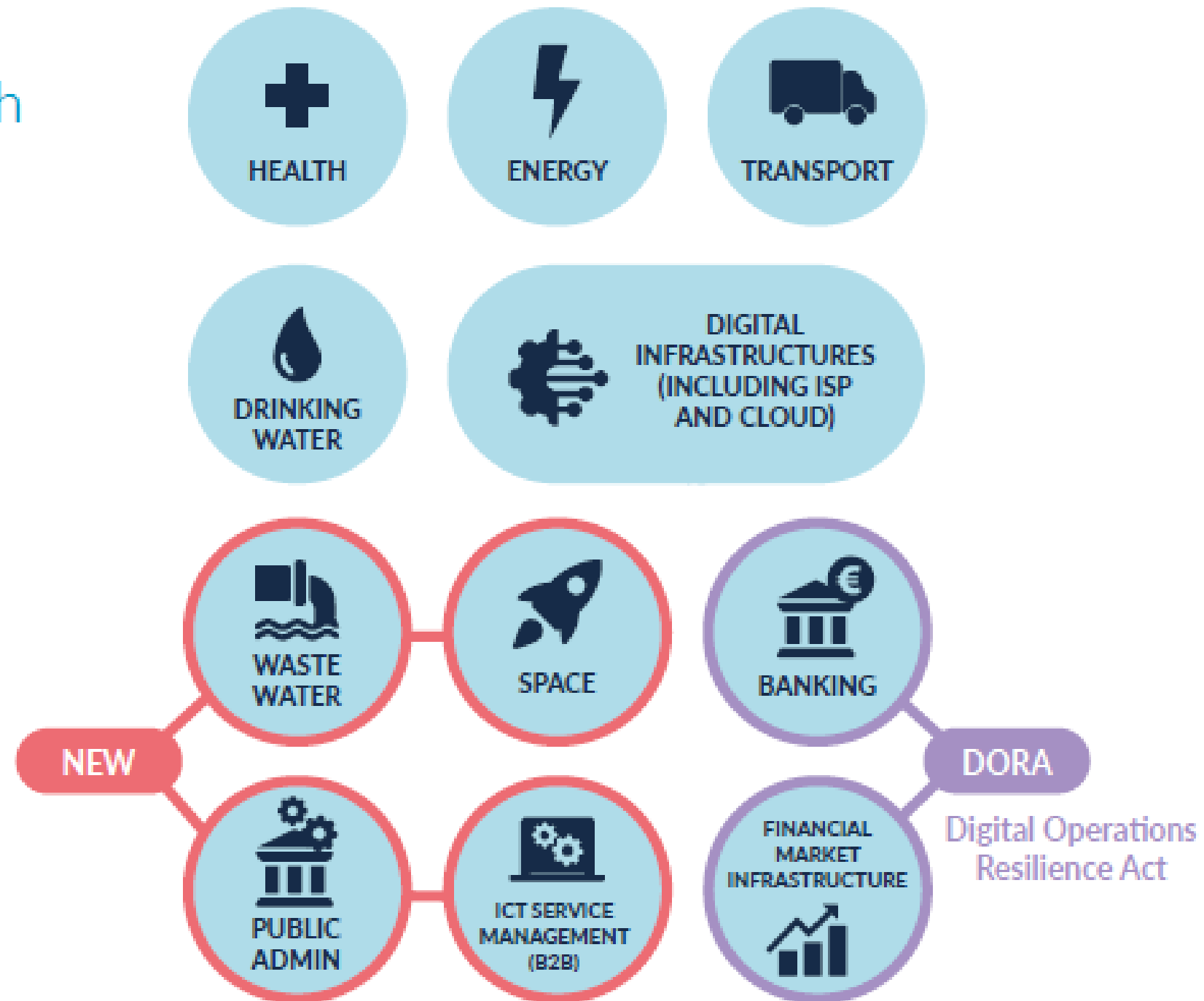


# Scope (entities concerned)

01

# Sectors in scope

## Annex 1 - Sectors of High Criticality



Essential or Important Entities

## Annex 2 - Other Critical Sectors



Important Entities

# Enterprise sizes under Recommendation 2003/361/CE

COMMISSION



COMMISSION RECOMMENDATION  
of 6 May 2003  
concerning the definition of micro, small and medium-sized enterprises  
(notified under document number C(2003) 1422)  
(Text with EEA relevance)  
(2003/361/EC)

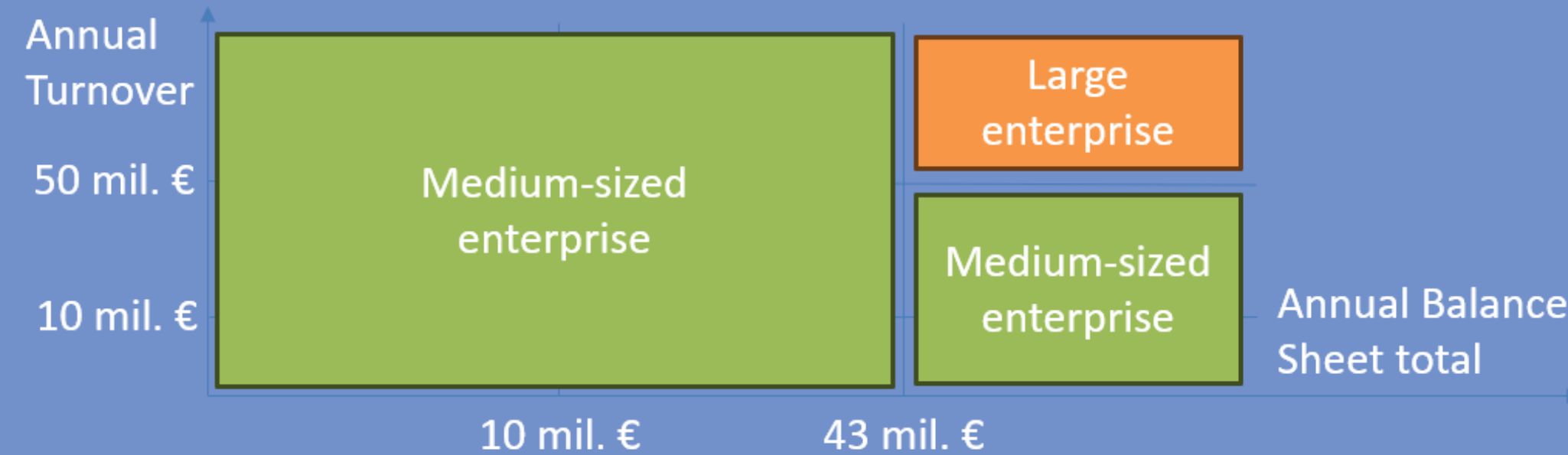
THE COMMISSION OF THE EUROPEAN COMMUNITIES,  
Having regard to the Treaty establishing the European

economic community, and in particular Article 2 of the Treaty, and in view of the need to ensure uniformity of application of the criteria for the definition of micro, small and medium-sized enterprises, pursuant to Article 2 of the Annex thereto, consideration must be given to a number of difficulties of interpretation which have emerged in its application, as well as the observations received from

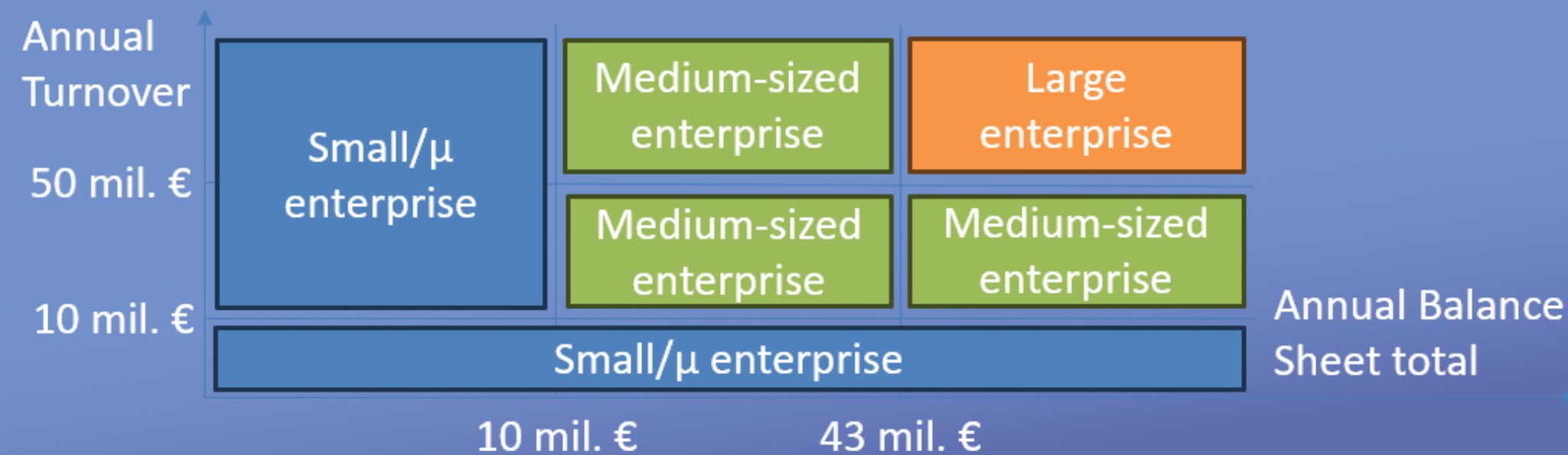
≥ 250 FTE



50 - 249 FTE



< 50 FTE














## User guide to the SME Definition



[User guide to the SME definition \(EU\)](#)








[Online tool to determine your enterprise size \(EU\)](#)

# Annex I : sectors of high criticality

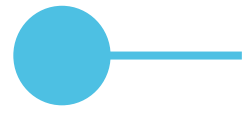
Sector	Sub-Sector	Large entities (at least 250 employees or more than 50 million euros annual turnover (or 43 million euros balance sheet total))	Medium entities (at least 50 employees or with an annual turnover (or balance sheet total) of more than 10 million euros)	Small & Micro entities	
 <b>1. Energy</b>	Electricity	Electricity undertakings which carry out the function of supply; Distribution system operators; Transmission system operators; Producers; Nominated electricity market operators; Market participants; Operators of a recharging point		<p><b>Only if identified as essential or important by national authorities</b> due to sole service, significant impact (on public safety, public security or public health), significant systemic risk or critical for the particular sector or type of service.</p>	
	District heating & cooling	Operators of district heating or district cooling			
	Oil	Operators of oil transmission pipelines; Operators of oil production, refining and treatment facilities, storage and transmission; Central stockholding entities			
	Gas	Supply undertakings; Distribution system operators; Transmission system operators; Storage system operators; LNG system operators; Natural gas undertakings; Operators of natural gas refining and treatment facilities			
	Hydrogen	Operators of hydrogen production, storage and transmission			
 <b>2. Transport</b>	Air	Air carriers used for commercial purposes;			
	Rail	Infrastructure managers; Railway undertakings			
	Water	Inland, sea and coastal passenger and freight water transport companies, not including the individual vessels operated by those companies; Managing bodies of ports and entities operating works and equipment contained within ports; Operators of vessel traffic services (VTS)			
	Road	Road authorities responsible for traffic management control, excluding public entities for which traffic management or the operation of intelligent transport systems is a non-essential part of their general activity; Operators of Intelligent Transport Systems			
 <b>3. Banking</b>	Credit institutions <i>[DORA Lex specialis]</i>		<p><b>Essential</b></p>		
 <b>4. Financial Market Infrastructure</b>	Trading venues, central counterparties <i>[DORA Lex specialis]</i>				
 <b>5. Health</b>	Healthcare providers; EU reference laboratories; R&D of medicinal products; manufacturing of basic pharma products and preparations; manufacturing of medical devices critical during public health emergency				
 <b>6. Drinking Water</b>	Suppliers and distributors of water intended for human consumption, <b>only if</b> essential part of their general activity				
 <b>7. Waste Water</b>	Collecting, disposing of or treating urban waste water, domestic waste water or industrial waste water, <b>only if</b> essential part of their general activity				
 <b>8. Digital Infrastructure</b>	Qualified trust service providers			<p><b>Essential</b></p>	
	DNS service providers [excluding root name servers]				
	TLD name registries				
	Providers of public electronic communications networks			<p><b>Essential</b></p>	
	Non-qualified trust service providers			<p><b>Essential</b></p>	<p>Important, except if identified as <b>essential</b> based on National risk assessment</p>
	Internet Exchange Point providers				
	Cloud computing service providers				
Data centre service providers					
Content delivery network providers		<p>Important, except if identified as <b>essential</b></p>	<p><b>Only if identified as essential or important</b></p>		
 <b>9. ICT-service management</b>	Managed (Security) Service Providers				
 <b>10. Public Administration</b> (excluding judiciary, parliaments, central banks; national security, public security, defence or law enforcement).	Public administrations depending on the federal State		<p><b>Essential</b></p>		
	Public administrations depending on the federate entities (after identification following a risk-based assessment of the criticality of the services provided)		<p>Important, except if identified as <b>essential</b></p>		
	Emergency zones & the fire and emergency medical service of the Brussels-Capital Region				
 <b>11. Space</b>	Operators of ground-based infrastructure that support the provision of space-based services, excluding providers of public electronic communications networks		<p><b>Essential</b></p>	<p>Important, except if identified as <b>essential</b></p>	<p><b>Only if identified as essential or important</b></p>



## Annex II : other critical sectors

Sector	Sub-Sector	Large entities (at least 250 employees or more than 50 million euros annual turnover (or 43 million euros balance sheet total))	Medium entities (at least 50 employees or with an annual turnover (or balance sheet total) of more than 10 million euros)	Small & Micro entities
 <b>1. Postal and courier services</b>	Postal service providers, including providers of courier services	Important, except if identified as <b>essential</b>		<b>Only if identified as essential or important by national authorities</b> due to sole service, significant impact, essential to society
 <b>2. Waste Management</b>	<u>Only</u> if principal economic activity			
 <b>3. Chemicals</b>	Manufacture of substances and distribution of substances or mixtures; production of articles from substances or mixtures			
 <b>4. Food</b>	Wholesale distribution and industrial production and processing			
 <b>5. Manufacturing</b>	(In vitro diagnostic) medical devices; computer, electronic, optical products; electrical equipment; machinery and equipment n.e.c.; motor vehicles, trailers, semi-trailers; other transport equipment (NACE C 26-30)			
 <b>6. Digital providers</b>	Online marketplaces; online search engines; social network service platforms			
 <b>7. Research</b>	Research organisations [excluding education institutions]			
Entities providing domain name registration services				






# Mandatory registration mechanism

Deadline March 18<sup>th</sup> 2025 (most entities)


Deadline December 18<sup>th</sup> 2024 (some entities of the Digital infrastructure sector)

NL FR EN DE

Other government information and services: [www.belgium.be](http://www.belgium.be) 



Logout 

  
**Dobbelaere Karl**  
Hotel des Colonies  
N° 402081232  
Kruisvaartenstraat 6,  
1210 Sint-Joost-ten-Node


## Safeonweb@work services

Here you can activate and deactivate your Safeonweb@work services and edit your settings

Safeonweb@work services offered by CCB

Cyber Threat Alerts and notifications  

 Services

 Network Information

 Contact Information



### Representatives of an organisation will be able to:

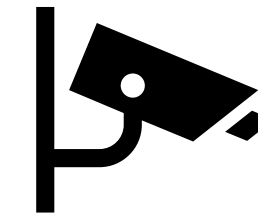
- access Safeonweb@work
- register contact details and network information
- *register as a NIS entity*
- *indicate the sector of activity*

**Possibility to reuse of existing data held by other public authorities**

# Competent authorities

## 02

# National and international collaboration





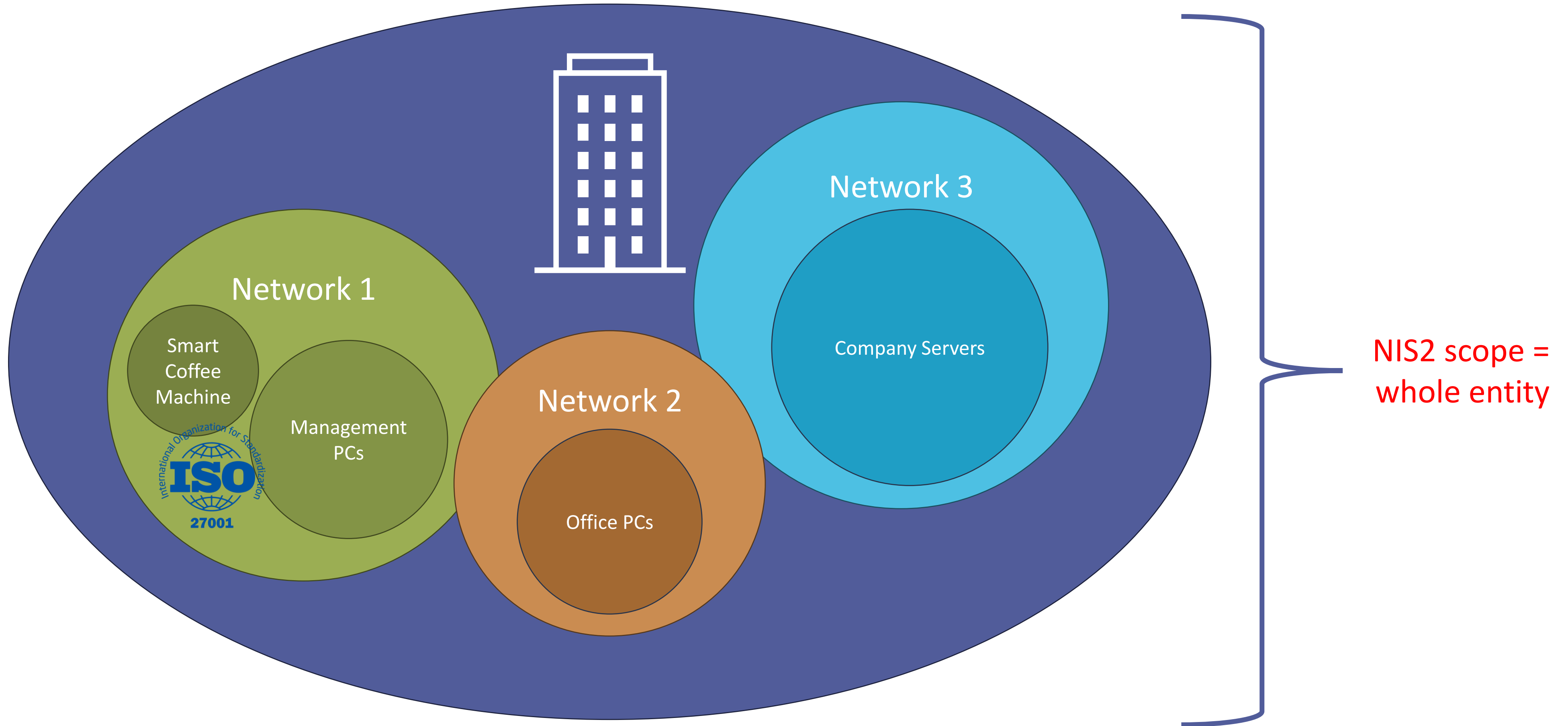


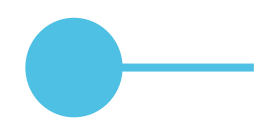
# Cybersecurity measures (Cybersecurity frameworks/ Risk Assessment)

03



# ● Scope of measures





# Governance - Management body (art. 31)

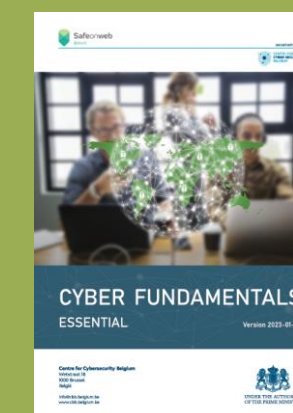


# THE CYBERSECURITY MEASURES TO BE IMPLEMENTED

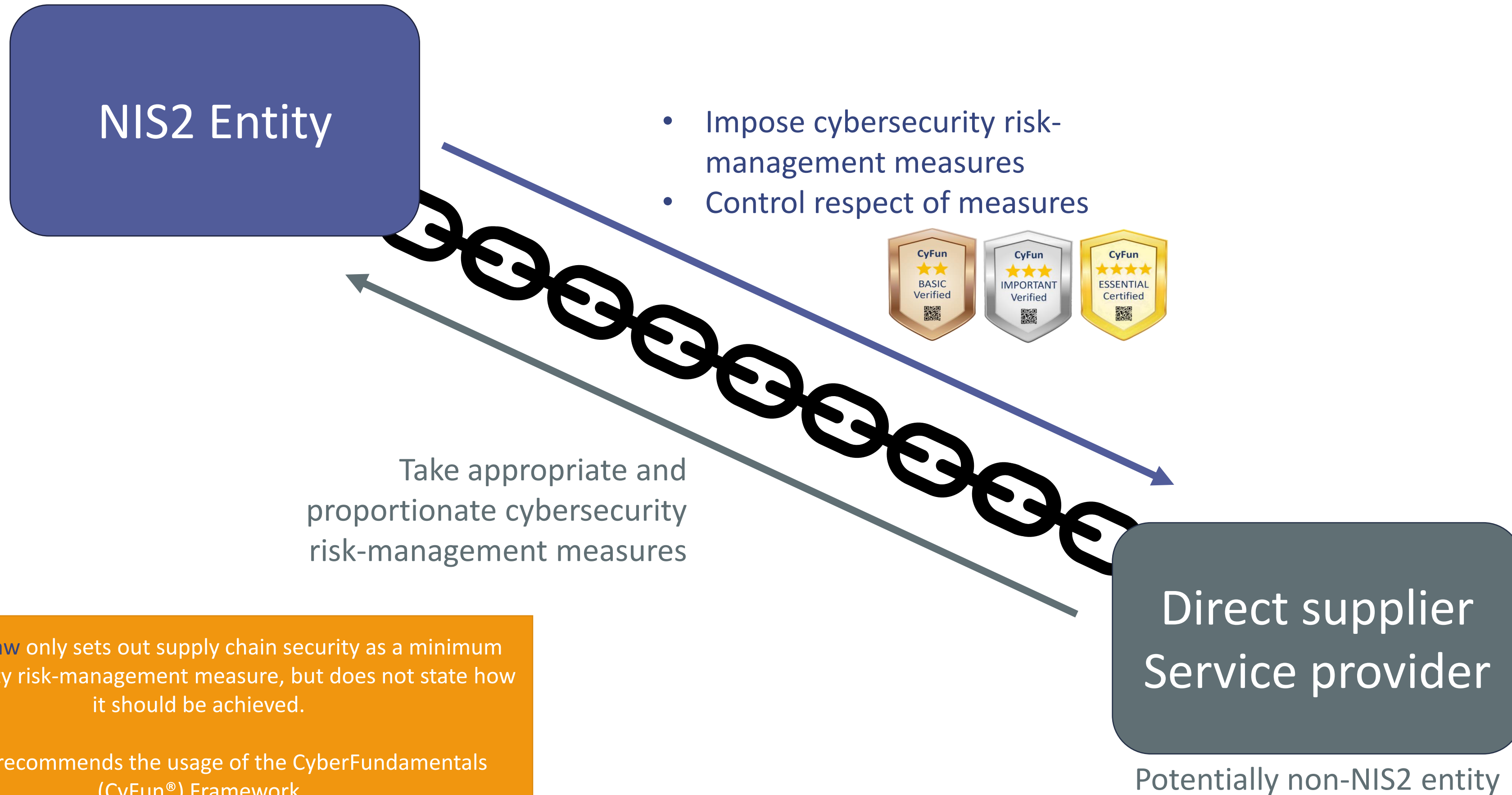
NIS 2: an all-hazards approach that aims to protect network and information systems and the physical environment of those systems from incidents. The law requires appropriate and proportionate measures to be taken based on the entity's risk assessment. These measures include at least:



These security measures can be implemented using the CyberFundamentals (CyFun®) or ISO 27001 reference frameworks.



# Supply Chain obligation



The NIS2 law only sets out supply chain security as a minimum cybersecurity risk-management measure, but does not state how it should be achieved.

The CCB recommends the usage of the CyberFundamentals (CyFun®) Framework



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# Regular conformity assessment Risk Assessment

# Reference frameworks for conformity assessment

Essential entities shall submit to regular conformity assessment

↓  
**Mandatory**

CyberFundamentals (CyFun®)

ISO 27001

Inspection by the CCB

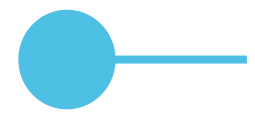
Important entities may submit to regular conformity assessment

↓  
**Voluntary**

CyberFundamentals (CyFun®)

ISO 27001

Conformity Assessment by an **accredited** Conformity Assessment Body (CAB) **authorized** by the CCB

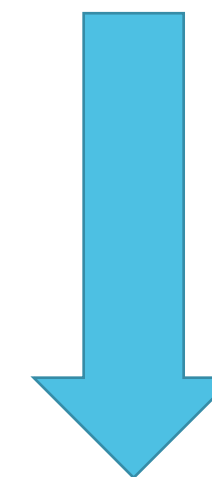


# CCB Default Risk Assessment

Default Risk Assessment per Sector & Size → appropriate CyberFundamentals Level



Energy		Common skills		Common skills		Common skills		Extended Skills		Extended Skills				
Organization Size (L/M/S = 3/2/1)	<b>3</b>	Threat Actor Type	Competitors		Ideologues Hactivists		Terrorist		Cyber Criminals		Nation State actor			
Cyber Attack Category	Global or Targetted	Impact	Prob	Risk Score	Prob	Risk Score	Prob	Risk Score	Prob	Risk Score	Prob	Risk Score		
Sabotage/ Disruption (DDOS,...)	2	High	Low	0	Low	0	Med	30	Med	30	High	60		
Information Theft (espionage, ...)	2	High	Low	0	Low	0	Low	0	High	60	High	60		
Crime (Ransom attacks)	1	High	Low	0	Low	0	Low	0	High	30	Low	0		
Hactivism (Subversion, defacement...)	1	Med	Low	0	Med	7,5	Low	0	Low	0	Med	7,5		
Disinformation (political influencing)	1	Low	Low	0	Med	0	Low	0	Low	0	Low	0		
Total	Total			0		7,5		30		120		127,5	Score	CyFun Level
													<b>285</b>	<b>ESSENTIAL</b>



<https://atwork.safeonweb.be/tools-resources/cyberfundamentals-framework/choosing-right-cyber-fundamentals-assurance-level-your-organisation>



Search

## EEN INCIDENT MELDEN

Ik ben \*

- Select -

Ik wil \*

- een incident melden
- ondersteuning bij een incident (gelieve je gegevens hieronder in te vullen)
- een phishingbericht doorsturen (stuur het door naar [verdacht@safeonweb.be](mailto:verdacht@safeonweb.be))

Heb je een verdacht bericht ontvangen? Stuur het door naar [verdacht@safeonweb.be](mailto:verdacht@safeonweb.be) en verwijder het daarna. Als je een verdacht bericht op het werk ontvangt, moet je de procedures die daar gelden voor phishing opvolgen, bv. doorsturen naar de ICT-dienst. Vragen over verdachte berichten worden niet door ons behandeld. Voor meer info over verdachte berichten: [www.safeonweb.be](http://www.safeonweb.be)

E-mail

Vul contactgegevens in als je ondersteuning nodig hebt. 

Telefoon

+32 479 12 34 56

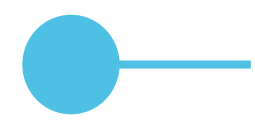
Contactpersoon

Type incident \*

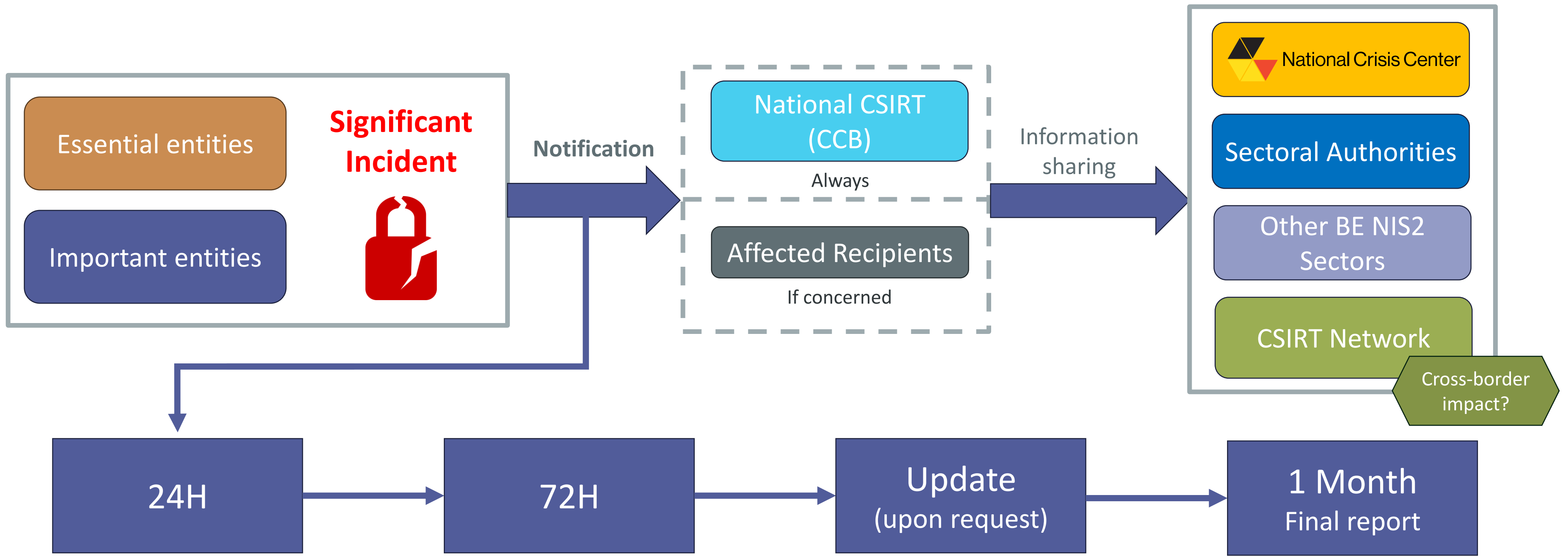
- Weet niet
- PC/netwerk wordt gegijzeld door een ransomware

# Incident notification 04





# NIS2 Incident Notification



**Early Warning** via written online notification or phone (if needed): indicate if incident presumably caused by unlawful or malicious action and/or **if could have a cross-border impact**

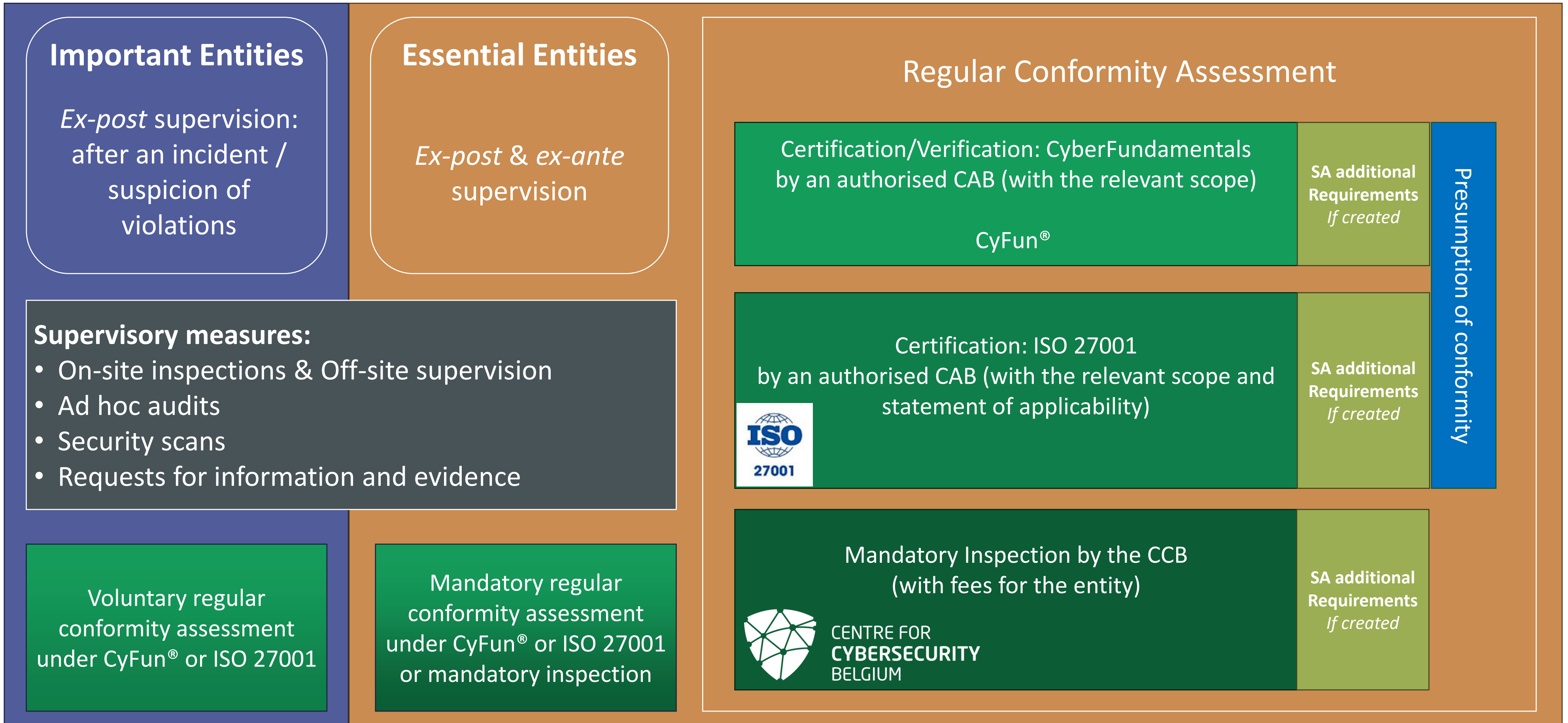
- **Information update**
- **Initial assessment of the incident**, its severity and impact, as well as where available, the indicators of compromise.

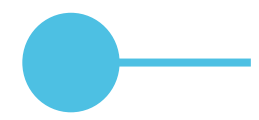
- **Detailed description** of the incident, its severity and impact,
- **Type of threat or root cause** that likely triggered the incident,
- Applied and ongoing **mitigation measures**.

# Supervision

05

# Supervision of NIS2 entities





# Inspection essential entities

*(ex-ante and ex-post)*

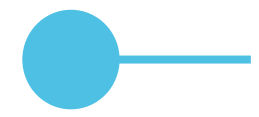
Inspection by CCB  
(common security  
measures)



***Or joint  
inspections  
(for critical  
infrastructures/  
critical entities)***

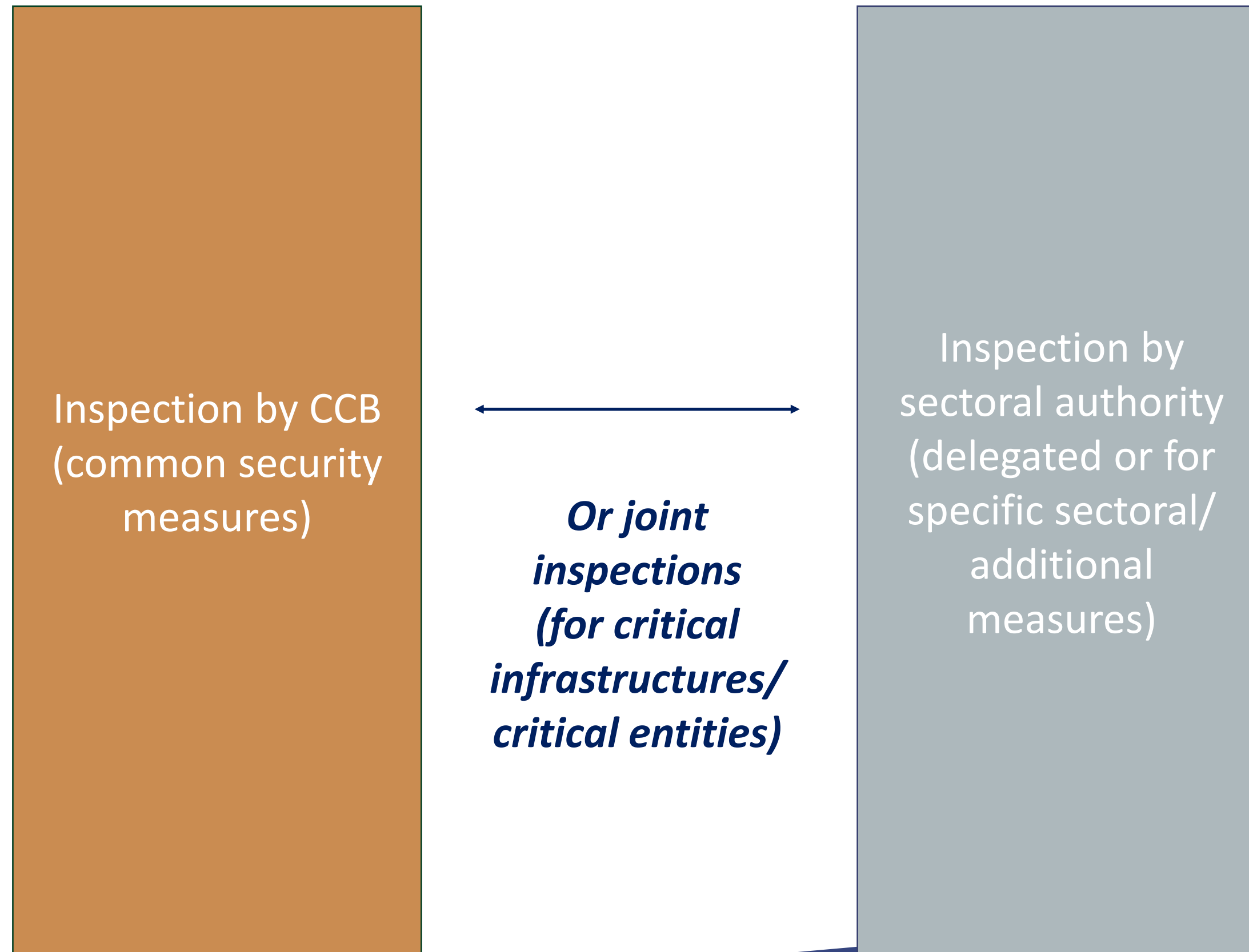
Inspection by  
sectoral authority  
(delegated or for  
specific sectoral/  
additional  
measures)

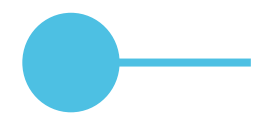




# Inspection important entities

*(ex-post : after an incident, suspicions of violations, etc)*





# Enforcement measures & Fines



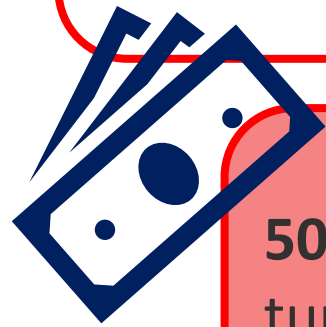
Issue <b>warnings</b> or <b>binding instructions</b>		Order to <b>cease conduct</b> or to bring <b>risk management measures</b> or reporting obligations in compliance	Order to <b>inform</b> the natural or legal person(s) to whom they provide services or to <b>make public</b> aspects of non-compliance
Designate a <b>monitoring officer</b> [Essential entity]	Order to <b>implement the recommendations</b> provided	Temp. <b>suspend a certification or authorisation</b> concerning a part or all of the relevant services provided [Essential entity]	Temp. <b>prohibit the exercise of managerial functions (CEO/Legal rep.)</b> [Essential entity]

**500 to 125 000 €** for non-compliance with the information obligations from art. 12 (identification process)

**500 to 200 000 €** for sanctions against a staff member of an entity acting in good faith according to the obligations of the law

**500 to 200 000 €** for non-compliance with supervision obligations

**Fines doubled when repeated behaviour within a period of 3 years**



**500 to 7 000 000 € or 1,4 %** of the total worldwide annual turnover in the preceding financial year of the undertaking to which the entity belongs, whichever is higher [**important entities**]

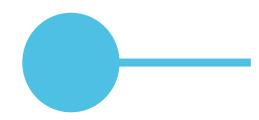
**500 to 10 000 000 € or 2 %** of the total worldwide annual turnover in the preceding financial year of the undertaking to which the entity belongs, whichever is higher [**essential entities**]

# Implementation Timeline NIS2

06







# Implementation timeline important entities

2024			2025												2026												2027									
Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr		
				18		18			18														18													18

## General Registration Deadline\*

At Safeonweb@work

\*in case of formal identification, the timing starts from the notification of the administrative decision

## Digital Sector Registration Deadline\*

## Security Measures & Incident notification

Cybersecurity risk management measures  
 Mandatory notification of significant incidents  
 Voluntary notification of other incidents, cyber threats and near misses

Improvement of measures following incidents  
 Cybersecurity Training

## Progressive implementation & supervision

➤ Start implementing or complementing cybersecurity measures

➤ Voluntary use of the CyberFundamentals Framework or ISO 27001

# ● NIS2 made in Belgium

- NIS 2 Quickstart Guide – implementing NIS2 in 7 steps
  1. Am I affected by NIS2?
  2. Register your NIS2 entity ASAP
  3. Report significant incidents
  4. Determine your CyberFundamentals (CyFun<sup>®</sup>) level
  5. Plan cybersecurity training
  6. Implement the security measures
  7. Have your security reviewed