

CENTRE FOR CYBERSECURITY BELGIUM

Cyber Fundamentals

A tool to help closing the Cyber Insurance Protection Gap

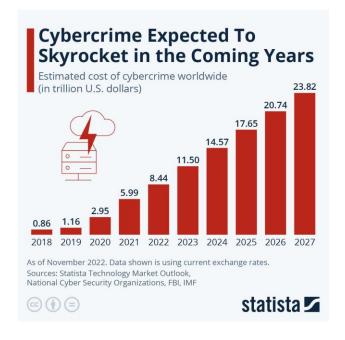


Centre for Cybersecurity Belgium Under the authority of the Prime Minister



Drivers for the Cyber risk protection gap

Cybercrime



Cyberinequity

Cyber resilience:



Companies holding cyber insurance policy: -24% compared to 2022



In collaboration with Accenture

Global Cybersecurity Outlook 2024

ECONOMIC

WØRLD

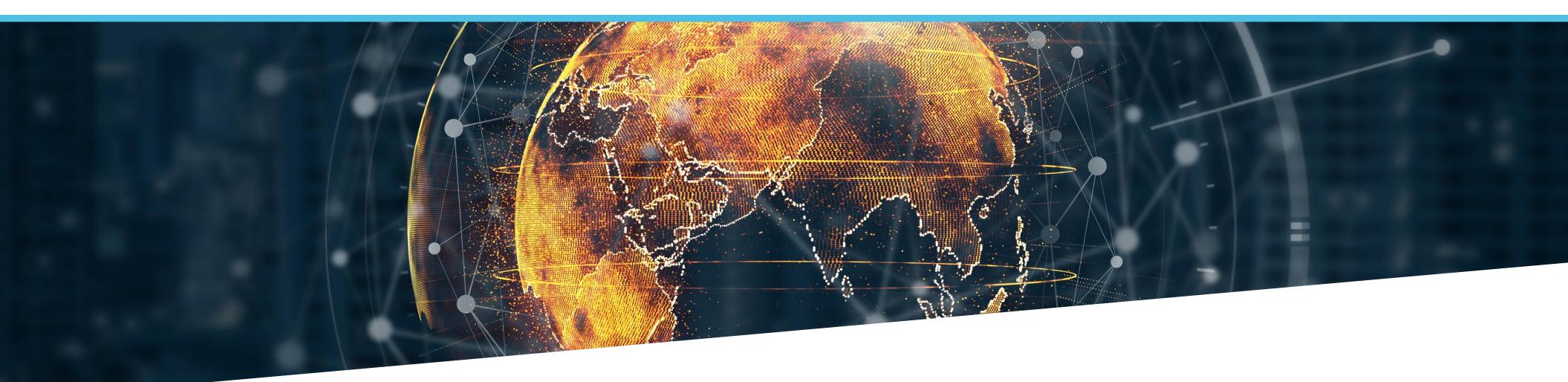
INSIGHT REPORT JANUARY 2024

Key elements for solutions:

- Fit for use (large companies /SME's)
- Systemic solution
- Risk-appropriate, affordable
- Public-private cooperation



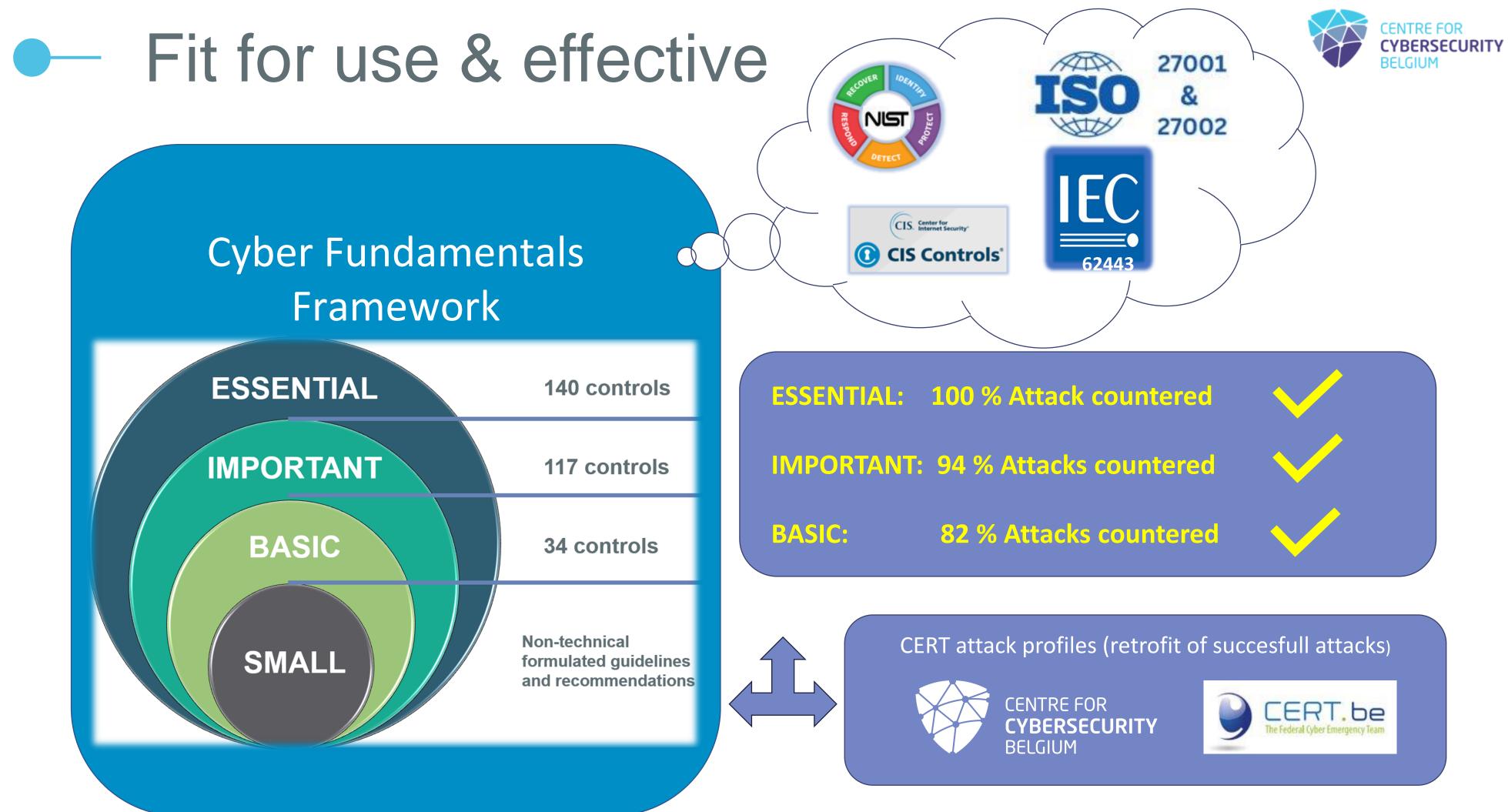




Cyber Fundamentals Let's approach cybersecurity as any other security/safety domain

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Systemic solution

Private and public entities:

- Regulatory (NIS2) presumption of compliance
- Supply Chain cybersecurity assurance
- Use to demonstrate the entities resilience to banks, insurance companies
- Voluntary use

Use Certification under accreditation: Cost effectiveness





Accredited once, Accepted everywhere.

5 -

Risk appropriate

Through the assurance levels based on cyber risk

Risk assessment tool to determine the assurance level

Lorgy			Comm	Commence statis		n aith i de marshills		Annand State		Prostel Stills				
Ongoes last law Give $(1/M)/L = 3/3/12$	а	Threat Actor Type	Comp	Competitors		igues terrorist inists		Cyber Criminals			n State Tor			
Cyber Attack Category	Adult or Dependent	ingent	N-10	fini kore		filiare.	-	Rik Carry	A-set	111.kor	7000	li i fan		
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information the ft (exp $map_{1}\ldots)$	2	High	LOW		LOW		Low		High	-62	нды	-62		
(cone (kanoma tada)	1	High	LOW		LOW	4	Low	4	High	- 20	LOW			
exactives problematics defacement)		navd	LOW		wed	2,8	Low		LOW		havd	2.8		
Dearbination (pairca) of second)	1	Low	LOW		ste-di		Low		LOW		LOW		Score	CyFun Level
	Tetal	Teriod				2,8		-		1.20		122,8	285	ESENTIAL

Focus on real cyber attacks

Through maturity level verification

Min KM Maturity Category Maturity Total Maturity



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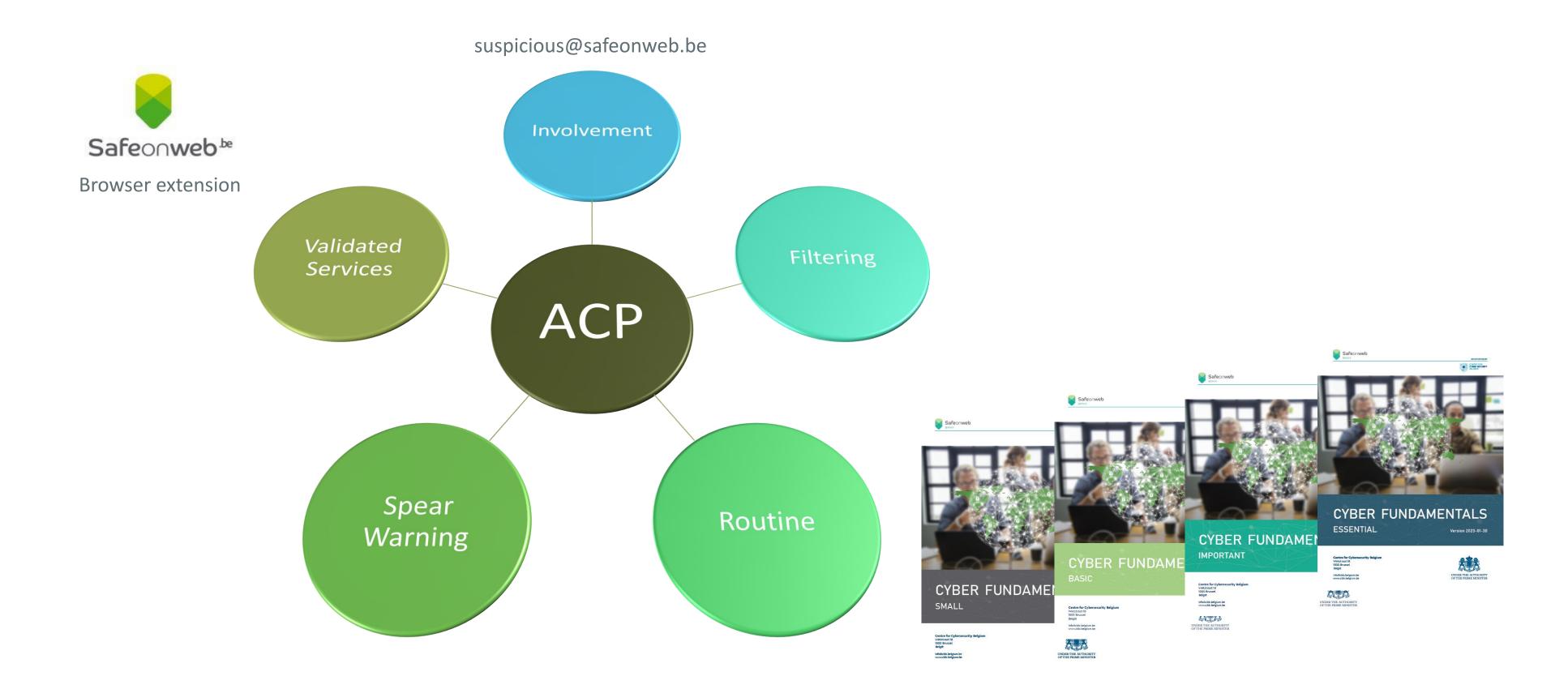
6 -

Key Measures

Conformity thresholds considering the maturity level.

BASIC	IMPORTANT	ESSENTIAL
2,5/5	> 3/5	> 3/5
		> 3/5
2,5/5	> 3/5	> 3,5/5

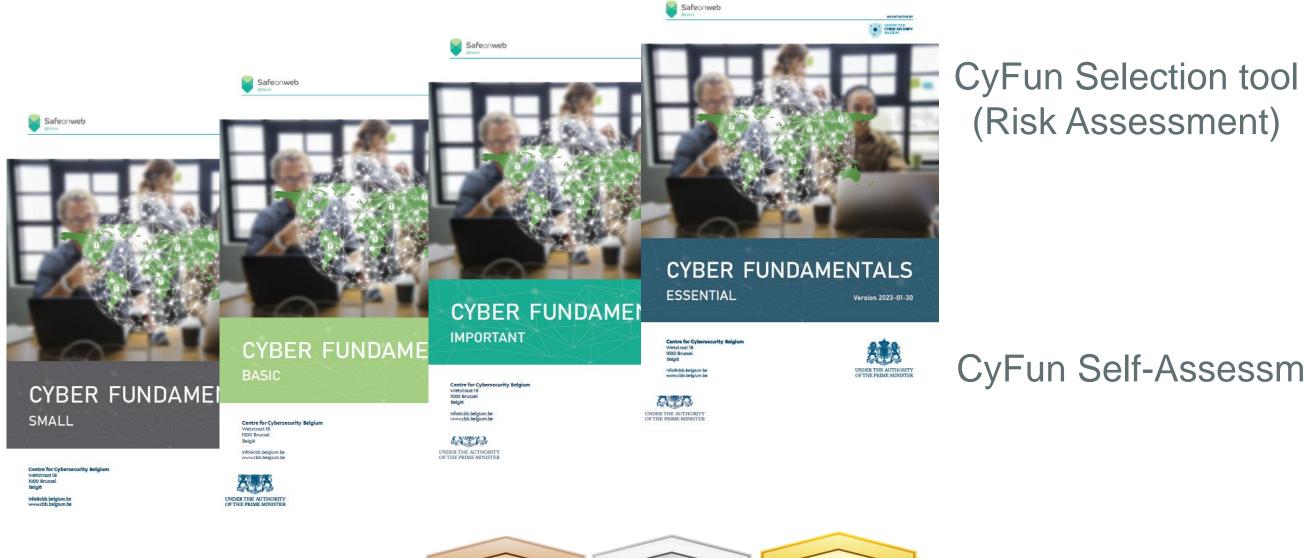
Partnership: Active Cyber Protection





7 –

Partnership: CyFun toolbox



CyberFundamentals **Conformity Assessment** Scheme for CAB's

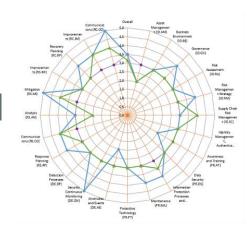


CyberFundamentals Toolbox is **publicly available** -> www.cyfun.eu



Energy			Comm	Common skills		Common skills		kills Common skills		Extended Skills		ed Skills		
Organization Size (L/M/S = 3/2/1)	3	Threat Actor Type	Comp	Competitors		Ideologues Hactivists		Terrorist		Cyber Criminals		n State tor		
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	Score	CyFun Level
	Total	Total		0		7,5		30		120		127,5	285	ESSENTIAL

CyFun Self-Assessment tool



1.0			2	2	023
	CyberFundamentals Categories	Target Score	Category Score	Policy Score	Practice Score
_	Overall	3,50	3,29	3,48	3,15
	Asset Management (ID.AM)	3,00	2,00	2,00	2,00
	Business Environment (ID.BE)	3,00	3,00	3,00	3,00
DEMONY (D	Governance (ID.GV)	3,00	3,50	4,00	3,00
	Risk Assessment (ID.RA)	3,00	3,00	3,00	3,00
	Risk Management Strategy (ID.RM)	3,00	3,50	4,00	3,00
	Supply Chain Risk Management (ID.SC)	3,00	3,50	3,00	4,00
	Identity Management, Authentication and Access Control	3,00	3,00	3,00	3,00
~	Awareness and Training (PR.AT)	3,00	2,50	2,00	3,00
	Data Security (PR.DS)	3,00	3,00	3,00	3,00
	Information Protection Processes and Procedures (PR.IP)	3,00	3,75	4,00	3,50
	Maintenance (PR.MA)	3,00	3,50	4,00	3,00
	Protective Technology (PR.PT)	3,00	3,00	3,00	3,00
	Anomalies and Events (DE.AE)	3,00	2,50	2,00	3,00
	Security Continuous Monitoring (DE.CM)	3,00	4,00	5,00	3,00
5	Detection Processes (DE.DP)	3,00	3,00	3,00	3,00
	Response Planning (RS.RP)	3,00	3,50	4,00	3,00
	Communications (RS.CO)	3,00	4,00	4,00	4,00
	Analysis (RS.AN)	3,00	2,50	3,00	2,00
8	Mitigation (RS.MI)	3,00	4,00	5,00	4,00
	Improvements (RS.IM)	3,00	3,00	3,00	3,00
	Recovery Planning (RC.RP)	3,00	3,50	4,00	3,00
	Improvements (RC.IM)	3,00	4,00	4,00	4,00
1	Communications (RC.CO)	8,00	4,50	5,00	4,00

CyberFundamentals Framework mapping

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Cyber Fundamentals Summary

Systemic solution

Multi-standards framework, international references Based on accreditation (competence & independence) **Risk-appropriate**

Assurance level approach – Key Measures – Maturity to demonstrate resilience

Affordable, Fit for use (micro entities – SME's - large companies)

Voluntary: assurance level approach

Legal obligation: upgrading according to public interest (NIS2)

Limited conformity assessment cost (basic-important: appr 1.000 Euro/yr)

Public-private cooperation

Scheme maintenance with stakeholders Part of the CCB Active Cyber Protection program





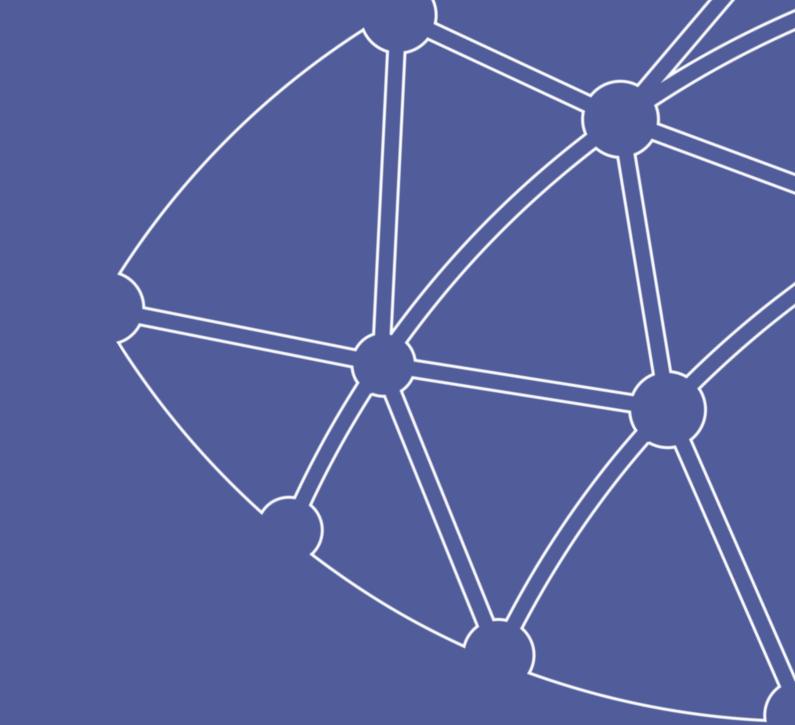
Accredited once, Accepted everywhere.





CENTRE FOR CYBERSECURITY BELGIUM

 Johan Klykens Director Cybersecurity Certification Authority
Centre for Cybersecurity Belgium Under the authority of the Prime Minister
certification@ccb.belgium.be



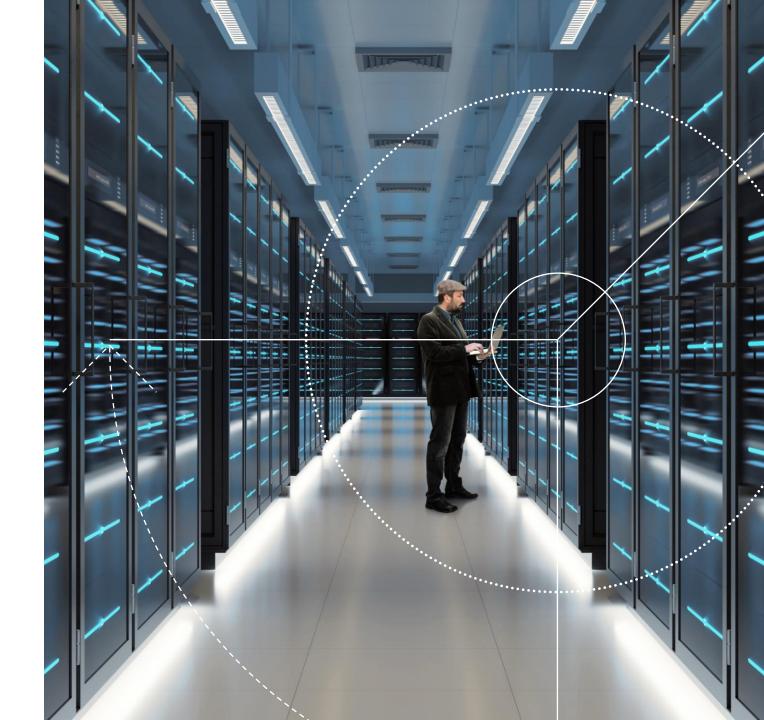




Insuring Cyber Risks

Insurance solutions to address the cyber risk protection gap

Allianz CommercialBrusselsCyber | Elisabeth Van RompayFebruary 26, 2024



Content / topics

Introduction

1

3 Cyber Risk Protection Gap





Insurance Solutions to address the gap



Providing peace of mind through Allianz's financial stability



Allianz Commercial global business 2022 (EUR)

>€19bn **Gross premium**



Allianz Group key figures 2022 (EUR)

Total revenues

€152.7bn €14.2bn Operating profit

94.2% Combined ratio

Allianz (III)

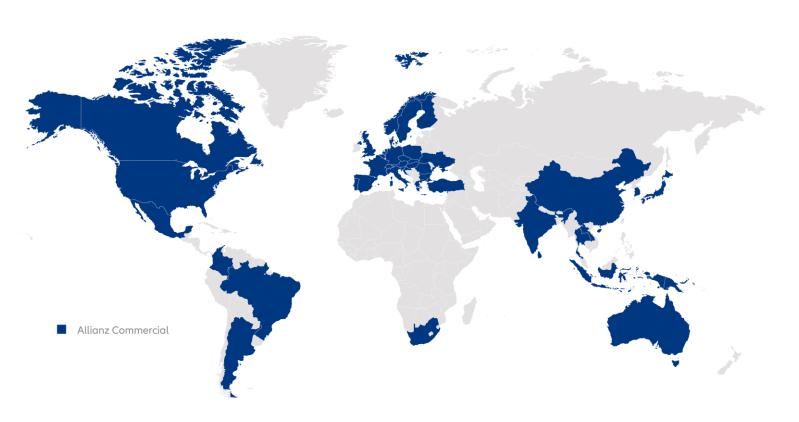
Allianz Commercial remains one of the highest rated global Property & Casualty insurers.

Allianz SE Ratings*	S&P	Moody's	A.M. Best
Insurer financial strengths rating	AA stable outlook (affirmed 06/26/2023)	Ao2 stable outlook (upgraded 09/26/2023)	A+ stable outlook (affirmed 03/08/2023)

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Our regional set-up

Asia: China, Hong Kong, India, Indonesia, Japan, Malaysia, Sri Lanka, Singapore, South Korea, Laos, Thailand Australia: Australia Benelux & Nordics: Belgium, Netherlands, and Nordic countries Central & Eastern Europe: Austria, Poland, Hungary Czech Republic, Slovakia, Bulgaria, Romania, Croatia, Slovenia & Ukraine. **France:** France, South Africa Germany & Switzerland: Germany & Switzerland, Liechtenstein **Iberia:** Spain & Portugal Latin America: Argentina, Brazil, Colombia, Mexico North America: Bermuda, Canada, USA **Southern Europe:** Greece, Italy, Turkey **United Kingdom:** United Kingdom





What you can expect from across Allianz Commercial

Claims experts: We are there when you need us most. Our 600+ global experts have 10+ years average claims adjusting experience and handle 125,000+ claims per year. Within the Claims team, Allianz Commercial has value driving experience handling claims for many years with access to top tier partners for incident response and other immediate measures. Allianz Commercial makes average annual claims payments of over €4 billion.

Multinational specialists: 900 dedicated multinational underwriters and 1,500+ multinational service experts are there to build your bespoke global programs.

Dedicated Risk Consultants: Combining industry-knowledge with an average of 10 years of experience, our 250+ global risk consultants from industry backgrounds understand the key risks and challenges you face.

Alternative Risk Transfer: We specialize in helping clients mitigate their most complex, broad-ranging risks by leveraging our expertise in alternative risk transfer and the global capabilities of the Allianz Group.

Actively growing

 Selective growth appetite across virtually all industries, but with focus on peraccount risk quality

Capacity

Up to €10m

Up to €15m

Up to €15m

Up to €10/15m

Preference for excess positions.

Coverage

- Primary stand-alone cyber
- Excess cyber
- Technology PI
- Media PI

Restricted

- Cryptocurrency
- Payment processors
- Pay day loan companies
- Air traffic controllers
- Adult entertainment
- Online gambling
- Central reserve banks

Contact

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Why choose us?





Network to service clients in 200+ countries and territories



Manager of 2,800+ global programs, spanning 21,000+ local policies, via our Multinational capabilities



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4,000+ employees in 50 offices worldwide

 $\label{eq:Weinsure} \bigotimes \qquad \mbox{We insure over three quarters of the Fortune} \\ 500 \mbox{\mathbb{R}}$

ESG integrated into our underwriting via industry-leading rules and tools

Allianz Group is committed to decarbonize its insurance and investment portfolios by 2050 in close partnership with clients

Part of the wider Allianz Group, one of the leading integrated financial services providers worldwide

5

Cyber Risk Landscape

Cyber threats and impact of cyber incidents on business



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Cyber incidents (e.g., cyber c<rime, IT network and service disruptions, malware / ransomware, data breaches, fines, and penalties)

- Cyber Risks ranked as top concern across all company sizes
- Ransomware on the rise.
- **Data** privacy claims
- **Critical** infrastructure
- Al may power ransomware attacks
- Shortage of global talent in cybersecurity .



Business interruption (incl. supply chain disruption)



Natural catastrophes (e.g., storm, flood, earthquake, wildfire, extreme weather events)



Macroeconomic developments² (e.g., inflation, deflation, monetary policies, austerity programs)



Fire, explosion



Political risks and violence (e.g., political instability, war, terrorism, coup d'état, civil commotion, strikes, riots, looting)



Market developments (e.g., intensified competition / new entrants, M&A, market stagnation, market fluctuation)

Changes in legislation and regulation ranks higher than

based on the actual number of responses

responses

macroeconomic developments based on the actual number of

2 Macroeconomic developments ranks higher than fire, explosion



4

regulation¹

18%

Climate change

result of global warming)

Changes in legislation and

(e.g., tariffs, economic sanctions, protectionism, Euro-zone disintegration)

19%



(e.g., physical, operational, and financial risks as a

Shortage of skilled workforce

Source: Allianz Commercial

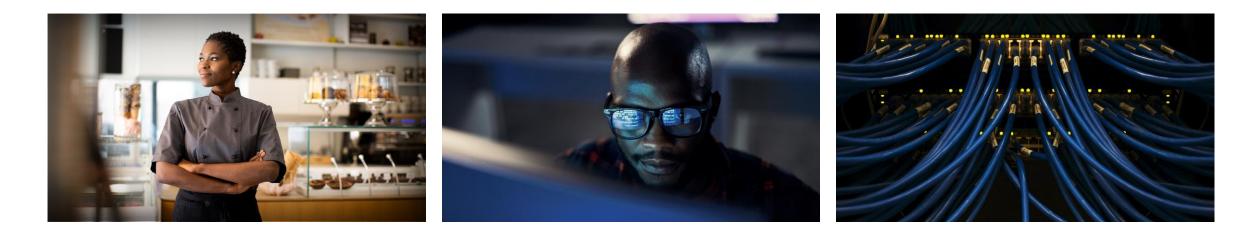
Figures represent how often a risk was selected as a percentage of all survey responses Respondents: 3,069. Figures don't add up to 100% as up to three risks could be selected

NEW New entry in the top 10 risks

Key

Risk higher than in 2023
↓ Risk lower than in 2023
→ No change from 2023
(5%) 2023 risk ranking %

The increasing sweet spot for Cybercriminals SMEs



Cybercriminals are turning to SMEs Increase in cyber attacks and data breaches **Cyber threats increase** Due to shift to remote work and outsourcing Hard recovery From business interruption Allianz 🕕

Cyber Risk Protection Gap

The discrepancy between potential losses incurred due to cyber threats and the level of insurance protection in place



Cyber Risk Protection Gap

- 1. Underestimation of cyber risks
- 2. Lack of cyber risk awareness
- **3. Inadequate** risk assessment and management
- 4. Evolving cyber threats
- 5. Complexity of cyber incidents
- 6. Historical data is limited
- 7. Quantification of risk remains difficult



Insurance Solutions

Addressing the cyber risk gap through insurance solutions is crucial in today's digital landscape, where businesses face ever evolving threats



Insurance Solutions Customers' perspective



Tailored Coverage

Tailored policies ensure that businesses have the right protection in place to address their vulnerabilities **Risk Assessment**

By identifying businesses and understand their cyber risks , insurers enable organizations to implement proactive measures to reduce vulnerabilities, e.g. Allianz CyberSafe Scan

https://allianz.be/nl/ondernemer s/cyberscan.html

Incident Response assistance

Insurers work with forensic experts and legal firms to navigate the aftermath of a cyber incident and to facilitate a swift recovery

€

Financial Protection

Adequate financial support helps business manage the consequences of a cyber incident



Continuous Coverage Adaption

Insurance solutions can adapt to emerging risks



Education

By empowering organizations with knowledge, insurers contribute to closing the gap in managing risks effectively

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Insurance Solutions Insurers' perspective



Diversification of portfolios

- Diverse range of business and industries
- Mitigating risks
- To reduce impact of catastrophic event

Setting Policy Limits and Deductibles

- Deductibles are based on unique profile of policyholder
- Appropriate limits to control potential exposure
- Deductibles to share the financial burden of smaller incidents with policyholders
- Co-insurance with policyholders as an incentive to improve their risk quality



Risk Pooling and Reinsurance

- Insurers utilize reinsurance mechanisms to spread the financial impact
- Transfer of portion of risk
- Manage financial impliciations of a catastrophic cyber event

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Closing the gap

Closing

Gap

By offering tailored coverage, supporting risk management efforts, providing financial protection, insurance can close the gap

Business that leverage comprehensive cyber insurance policies can significantly enhance their resilience against cyber threats and navigate the complex challenges posed by the digital environment

Thank you!



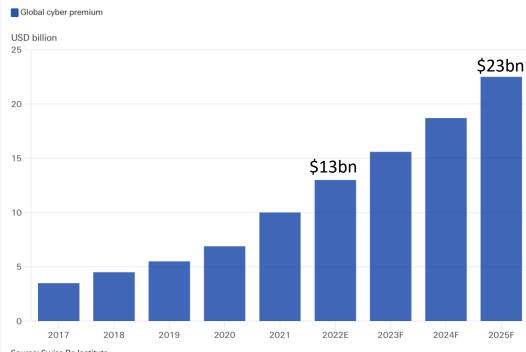
Cyber risk dynamics and views from an international perspective

Closing the Insurance Protection Gap



Cyber insurance in numbers

A very young insurance market with the first cyber policy in 1999



Source: Swiss Re Institute Note: E=Estimates, F=Forecasts. Swiss Re estimates/forecasts comprise standalone and packaged cyber policies.

The vast majority of the premium and the available data come from the US In part segmented, in other aspects, existence of a federal consolidated view



Focus on the US Role of the Surplus Lines market, rate increases and losses ratios

Bn USD	2018	2019	2020	2021	2022
Domestic Admitted	1,4	1,6	2,0	2,6	3,0
Surplus Lines (Domestic & Aliens)	1,8	1,5	2,0	3,9	6,7
Total Cyber	3,1	3,1	4,1	6,5	9,7
% Surplus Lines	57%	48%	50%	60%	69%
*Of which Alien Surplus Lines	1,1	0,9	1,3	1,7	2,4
Total domestic	2,0	2,3	2,8	4,8	7,2
Total domestic loss ratio (first 20 Cies)				66%	45%

Limited number of increase in policies (excluding Aliens)

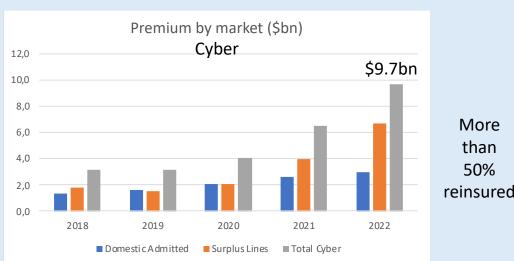
-	2018	2019	2020	2021	2022
Total Policies in Force	2,996,820	3,314,005	4,019,428	3,747,986	3,913,123
	15.1%	10.6%	21.3%	-6.8%	4.4%

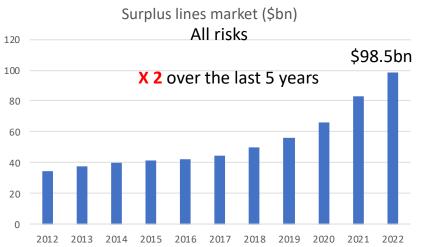
=> Significant rate increases

Surplus lines (all risks – "freedom of rate & form") represent:

- 22% of US commercial lines (\$515bn) vs. 11% in 2002 and 13% in 2012
- 11% of total P&C lines (\$881bn) vs. 6% in 2002 and 7% in 2012







*Source: NAIC's report on the Cybersecurity Insurance Market – Nov 2023

A strongly dynamically evolving risk Cyber: increased maturity but still in *infancy*

2023 marks a different development stage in the market

But the protection gap is still massive With*: **3tn** losses in 2015, **8tn** losses expected in 2023, **11tn** in 2025

*Source: Swiss Re/Cyber security Ventures

Signs of increased maturity

Attack vectors in Cyber crime	Investments in	Man
Cyber attacks	Prevention	Und
System errors	Quantification	impr
Human errors	Protection	adap
Physical attacks	Detection	warf
Supply chain attacks	Crisis management	supp
	Incident response/Recovery	lead
	Inno	vation

Proven recipes

Patch external vulnerabilities

Control remote access

Deploy multi factor authentication

Use offline backups (making sure they work)

Migrate email to the cloud vs. on premises and constant training on Innovation the threat of phishing

Cyber insurance and ransomware risk

ny actions from most stakeholders lerwriters and reinsurers: better understanding, roved questionnaires, underwriting tool ptation: deductibles, limits, exclusions such as fare, losses stemming from key players in the IT ply chain, attacks on critical infrastructure that to wide range cyber loss

Cyber risk management vendors (incl. InsurTech):

support in cyber loss quantification, EDR (Endpoint Detection Response) monitors your network for signs of suspicious activity and provides the tools to promptly identify and respond to data breaches **Regulators**: cyber event reporting (SEC), cyber incident data repository...

Governments: alerts, investments in tech, High Impact Operations, increased collaboration

THE SITE IS NOW UNDER CONTROL OF LAW ENFORCEMENT

This site is now under the control of The National Crime Agency of the UK, working in close cooperation with the FBI and the international law enforcement task force, 'Operation Cronos'.

LOCKBI

We can confirm that Lockbit's services have been disrupted as a result of International Law Enforcement action – this is an ongoing and developing operation.

Return here for more information at:

11:30 GMT on Tuesday 20th Feb.





















Sendarmerie





But still a long way ahead

- Barely 20 years of observations
- Improved data on occurrence
- Struggling on quantification
- s s

Supporting parametrics

- Pricing still based on scenario modelling
- Low penetration rate limiting data availability and mutualization
- Systemicity
- No coverage for the "Big One"

What lies ahead of us?/ What are the latest trends?

The double edge sword of progress









Quantum computing

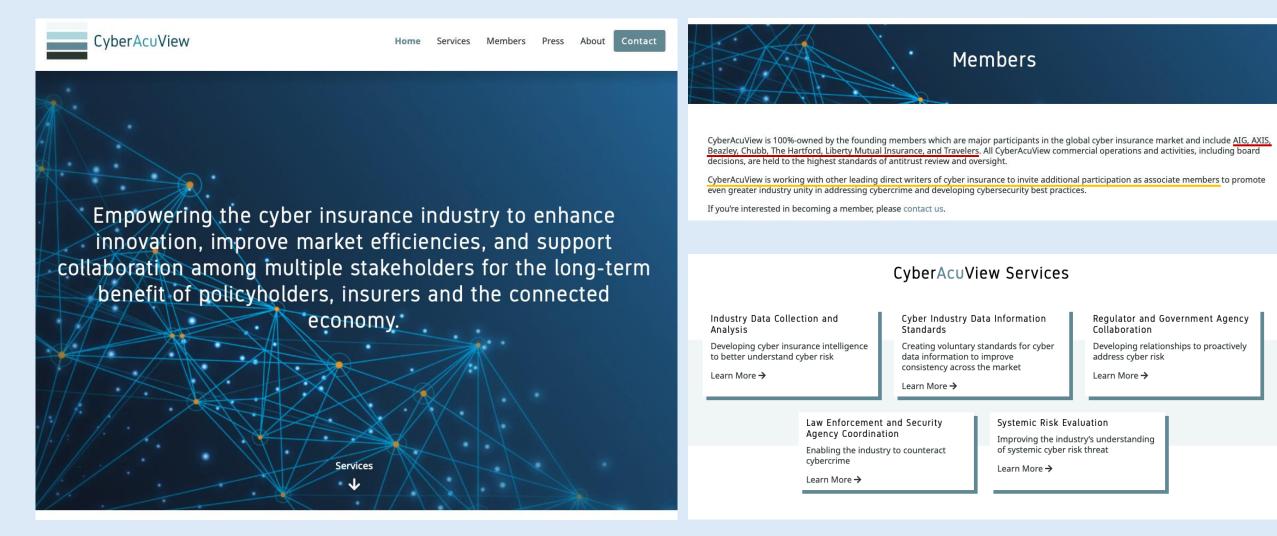
Break existing encryptions?

A new 're' encryption programmes era?



Data

Eventually, some did it: data sharing and collaboration



PERILS and CyberAcuView US Cyber Industry Loss Index gains early traction with use in ILS and ILW transactions

Zurich (Switzerland) and Lakewood Ranch (Florida, USA), 12 February 2024 – PERILS, the independent Swiss-based organisation providing industry-wide catastrophe insurance data, and CyberAcuView, the independent US-based organisation set-up by leading cyber insurers for the benefit of the cyber insurance market, have today announced the use of their US Cyber Industry Loss Index in the first cyber insurance risk transactions.

The US Cyber Industry Loss Index, launched in September 2023, reports affirmative US primary cyber market losses resulting from systemic cyber incidents affecting more than one insurer and policyholder for events exceeding USD 500 million industry loss. As the risk of systemic cyber losses continues to grow, the index is designed to provide an independent cyber industry loss estimate arising from US systemic loss events for use in alternative capital transactions.

The index is used to produce an index value to determine the payouts of the protection under Insurance Linked Securities (ILS) and Industry Loss Warranty (ILW) contracts. The cyber industry losses are based upon loss data collected from US cyber insurers by CyberAcuView with subsequent industry-level calculations jointly signed-off by CyberAcuView and PERILS. All data services are conducted under strict antitrust supervision.

Since its launch in September, PERILS and CyberAcuView have actively engaged with major stakeholders in the industry to raise awareness and acceptance of the loss index. This extensive work culminated in the first cyber 144a ILS being placed using an industry loss trigger (sponsored by Swiss Re) as well as an ILW reinsurance contract which was completed using the index.







PERILS and CyberAcuView announce the first two transactions using the US Cyber Industry Loss Index.

Commenting on the announcement, Christoph Oehy, CEO of PERILS, said: "We are very pleased our loss index has been used in transactions so soon after launch. In recent months, we have engaged closely with the market, while risk protection sellers and buyers have undertaken extensive due diligence on the index. It is clearly a very positive development to see its acceptance by the industry as demonstrated by these placements. As the risk of systemic cyber loss events grows, it is increasingly important to ensure sustainable capacity is available to support the US cyber sector. We believe our loss index can play an important role in enabling the expansion of the cyber-ILS and ILW markets by providing independent systemic loss estimates."

Mark Camillo, Chief Executive of CyberAcuView, added: "We are very excited by the level of interest in the index since launch. CyberAcuView's original mission was to make available reliable US cyber insurance industry data which can be used to better understand cyber risk. In recent months, there has been various discussions with industry players regarding key industry topics such as event definitions and war exclusions. I personally found this engagement very positive and it highlights the need for the industry to cooperate closely to expand capacity. It also became evident during this process there is an increasing interest in cyber risk by many protection sellers which we hope presents opportunities for the index to be used in future transactions."

Nick Meuli, Head Capacity and Platform Management at Swiss Re commented, "We are pleased to have worked with PERILS and CyberAcuView on the world's first 144a Cyber index cat bond. Independent indices are an important aspect in bringing more alternative capital into the market, something we believe is key for the further growth of the cyber market.".

ILS & the like

Innovation

Towards a PPP for Cyber as part of the

US National Cybersecurity strategy?

U.S. Treasury has reached a "tentative conclusion" that **a potential federal cyber insurance backstop** will be focused on catastrophic cyber risk.

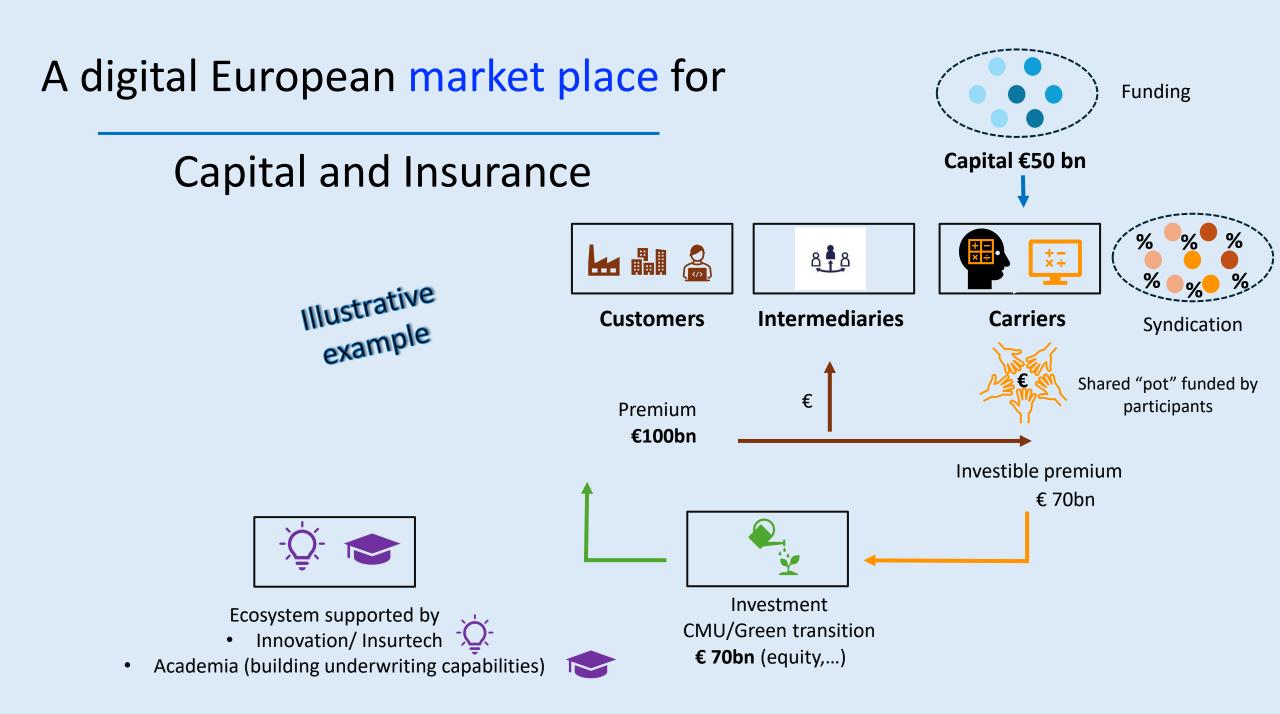
"We will remain focused on the policy options for some kind of public-private sector collaboration or other federal response that cabins catastrophic risk alongside the existing and expanding commercial cyber insurance market," said Graham Steele, assistant secretary for financial institutions at the Treasury Department.

The challenge, acknowledged Steele, is the fact that unlike natural catastrophes, there is limited historical data on catastrophic cyber losses in order to model projections. Plus, potential catastrophic losses can transcend geographic boundaries as well as industries and an organization's size.

"Waiting until after a catastrophic cyber incident occurs is sub-optimal for everyone, including private sector firms, the government that bears the responsibility for stabilizing the economy, and ultimately the taxpayers," Steele said.

What about us?

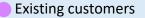




The way forward

Cyber and...? Supranationals (EU) PPP Governments \times Ρ Reinsurance R Alter-V natives Α (ILS,...) Т Insurance & syndication Ε Motor to partly move to Cyber Customers `_____

Increase the private sector cover via a European market place



Future customers not insured today