

RANSOMWARE INTELLIGENCE GLOBAL REPORT 2023

EMERGING TRENDS, WORLDWIDE AND REGIONAL VIEWS



Ransomware Attacks

A VIEW OF THE CURRENT SCENARIO

Ransomware attacks have become a growing concern for organizations of all sizes, with small and medium-sized businesses (**SMBs**) being particularly vulnerable. These attacks involve malicious actors encrypting a company's data and demanding a ransom payment in exchange for the decryption key.

The frequency and severity of these attacks have been on the rise in recent years, and the trend shows no sign of slowing down. The impact of a ransomware attack can be devastating for a business, leading to lost revenue, reputational damage, and in some cases, permanent data loss.

This report aims to provide a comprehensive **overview of ransomware attacks in 2021 and 2022**, highlighting the type of companies, the sectors and geographies most affected by these attacks. Presented data are aggregated views of "double extortion" ransomware attacks **extracted from the Dark Web with Coinnect proprietary platform**.

The impact of ransomware on the **Cyber Insurance Industry** has been significant in recent years. As the frequency and severity of ransomware attacks have increased, so too have the number of claims made by organizations affected by these attacks.

In fact, ransomware is now considered to be **the leading cause of cyber insurance claims**.

One of the main reasons for this is that ransomware attacks are becoming more sophisticated, with attackers using increasingly advanced techniques to evade detection and encrypt a company's data.

This makes it more difficult for organizations to **prevent and recover from attacks**, and increases the likelihood of a successful ransom demand.

Another reason is that many **SMBs are particularly vulnerable to ransomware attacks**, as they often lack the resources and expertise to effectively protect themselves.

This makes them an attractive target for attackers, who know that these companies are more likely to pay the ransom to regain access to their data.

The increasing frequency and severity of ransomware attacks are also affecting the cyber insurance industry in other ways.

One of the most notable is that it's **driving up the cost of cyber insurance**.

As the number of claims related to ransomware attacks increases, insurance companies are having to charge higher premiums to cover the cost of these claims.





Summary

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Global

COMPARISON BETWEEN 2022 AND 2021

- Geographical areas
- Range of employees
- Range of annual revenues
- Ransomware Groups

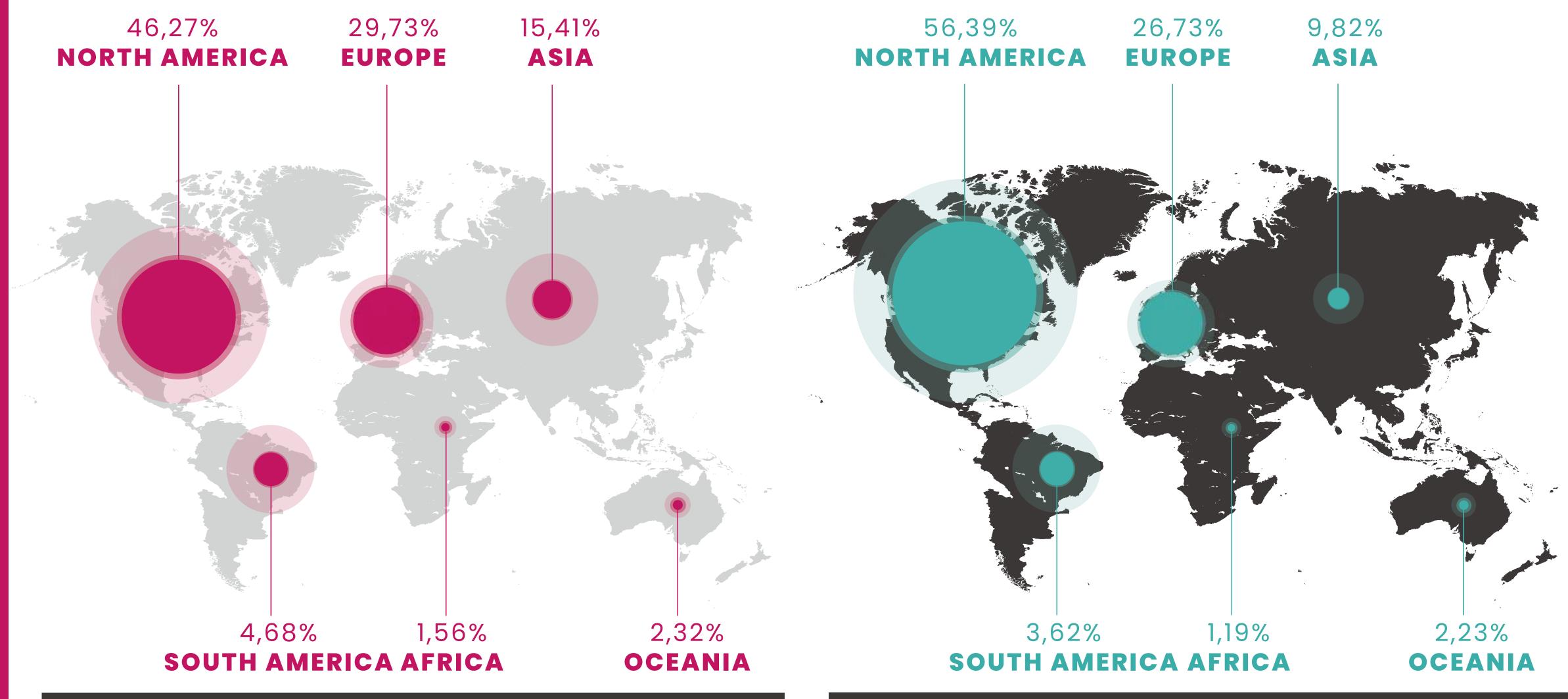




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Global view by geographical areas

North America is the only region where ransomware attacks decreased (-10%).

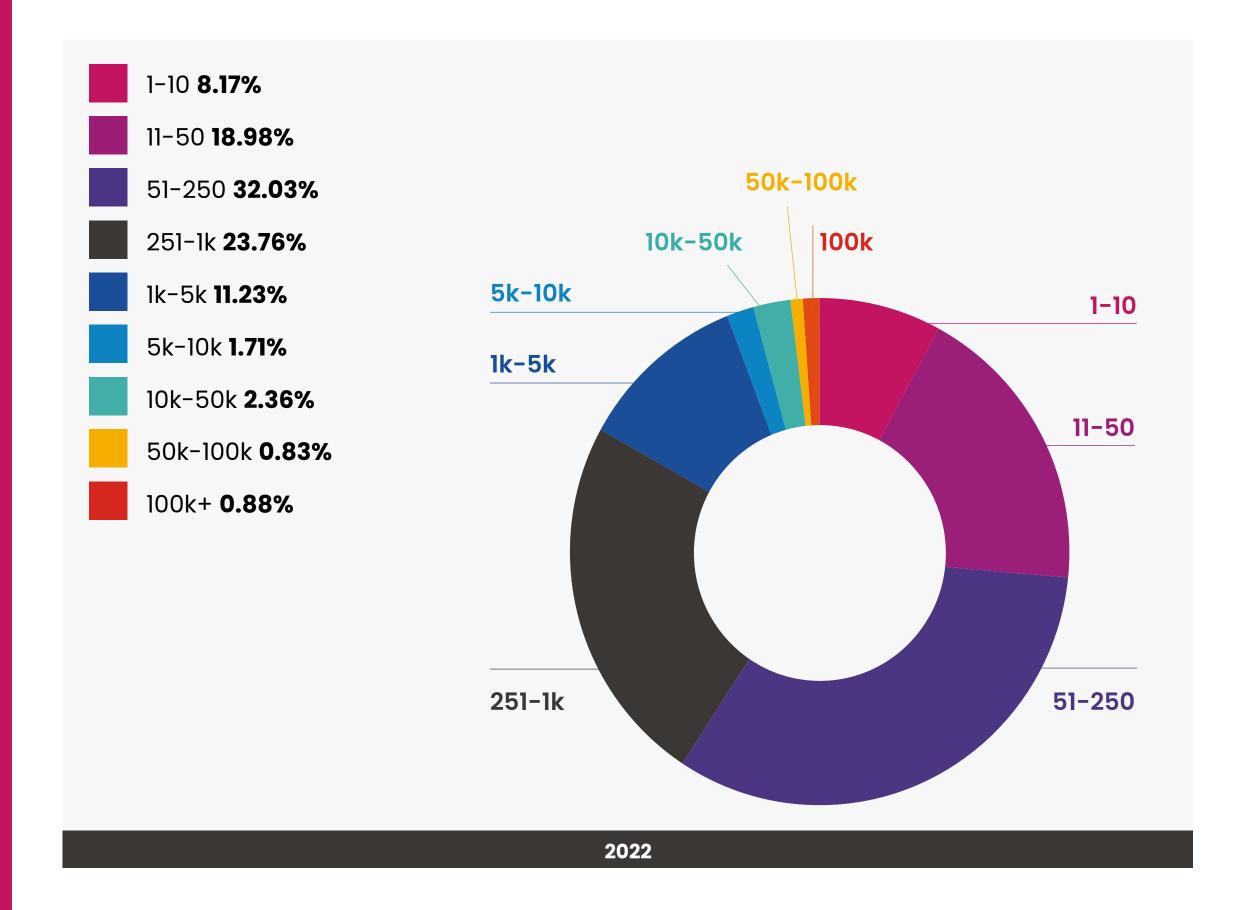




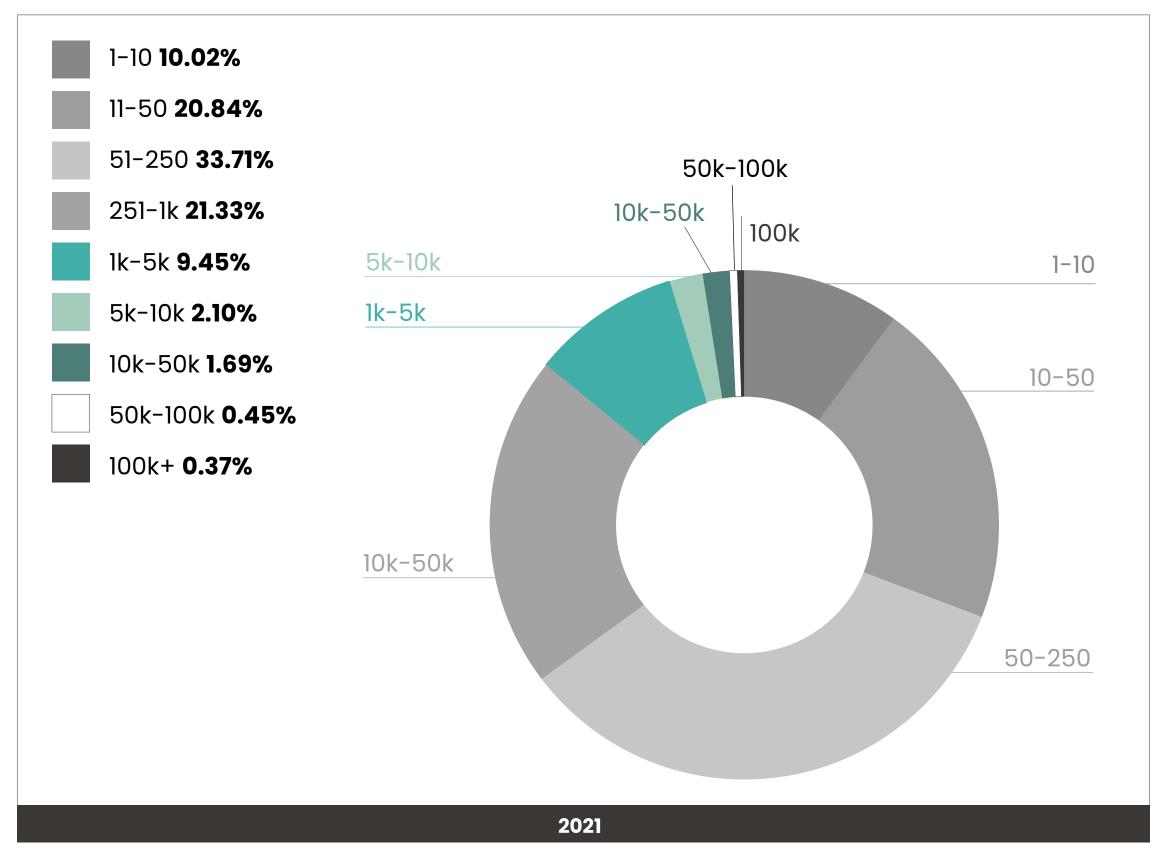
Global view by range of employees

Both in 2021 and 2022 majority of attacks affected organization with less than 1k employees.

RANGE OF **EMPLOYEES**



RANGE OF EMPLOYEES

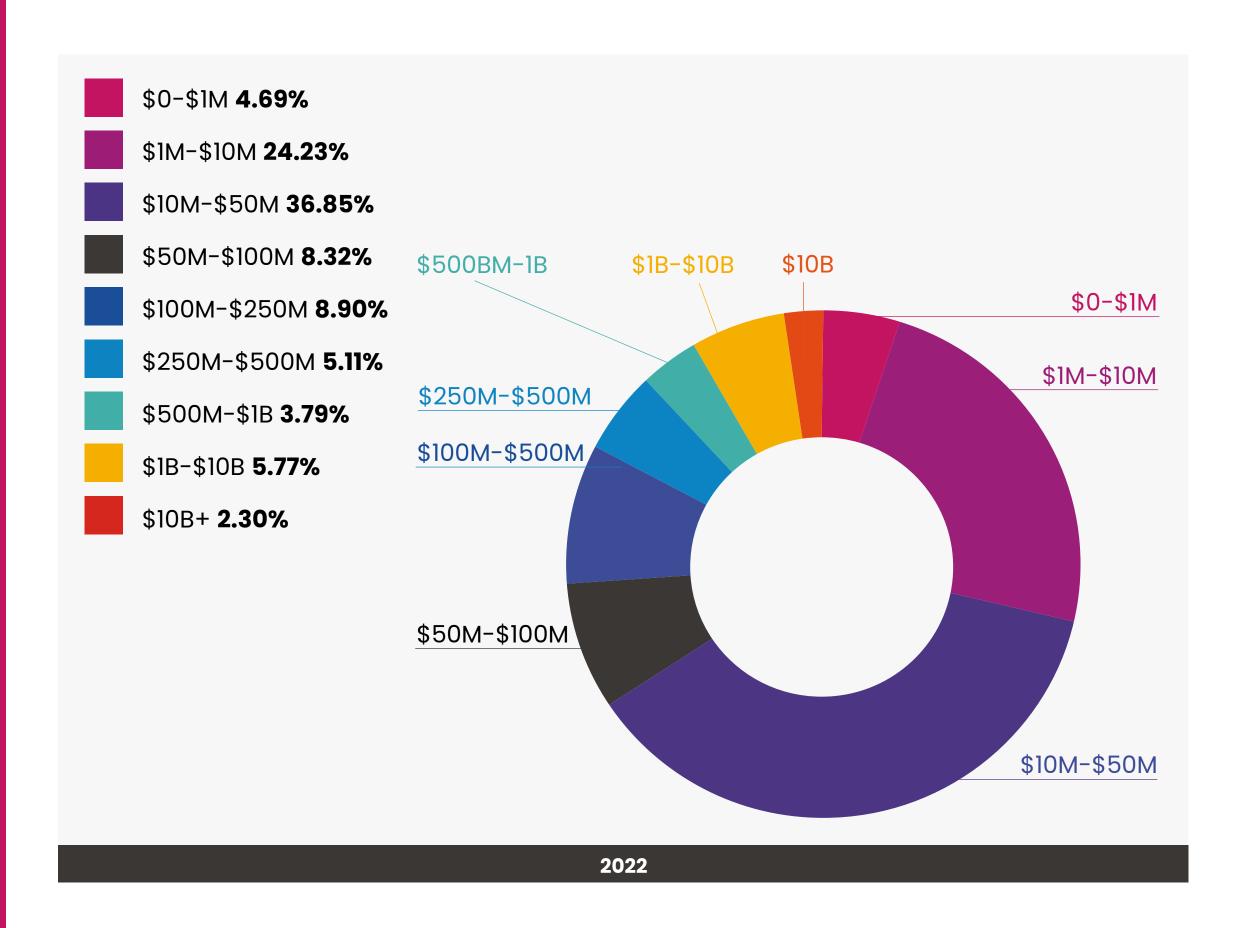




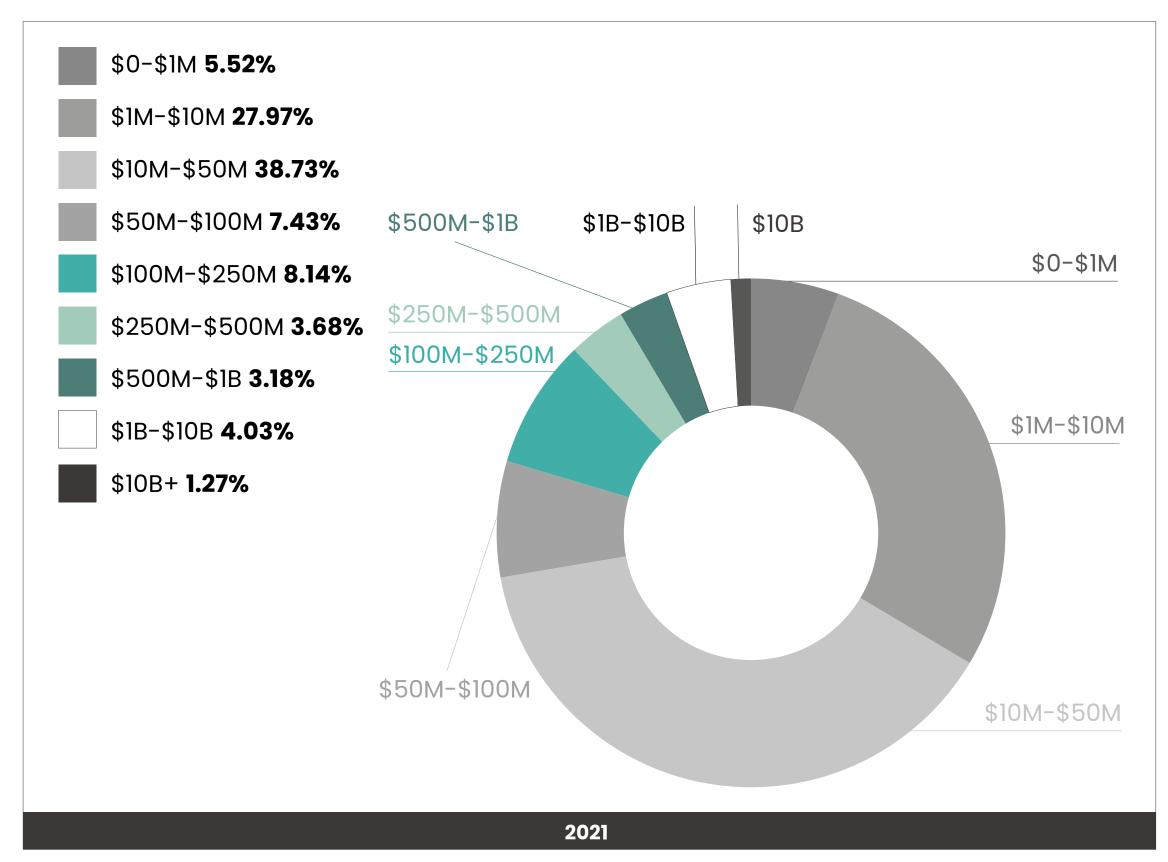
Global view by revenues range

Companies between 1M and 50M turnover represent about 60% of attacks both in 2022 and 2021.

RANGE OF ANNUAL REVENUE

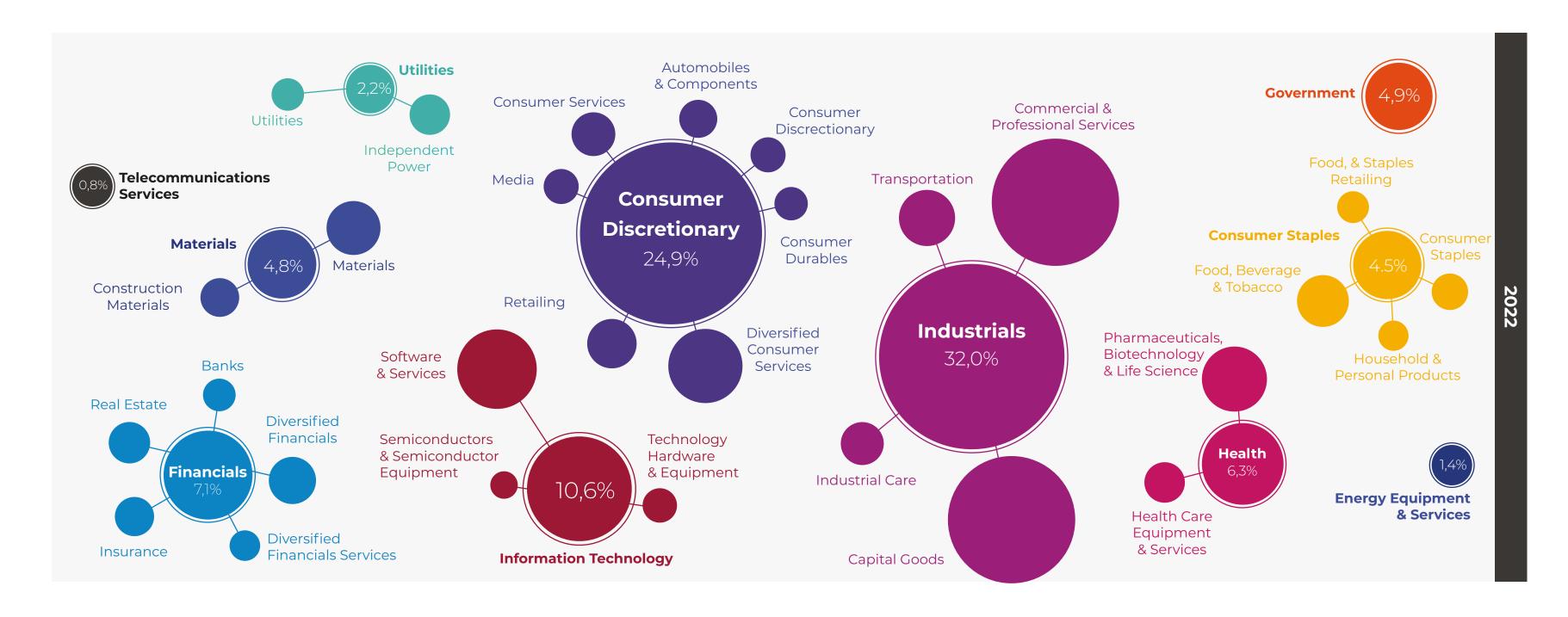


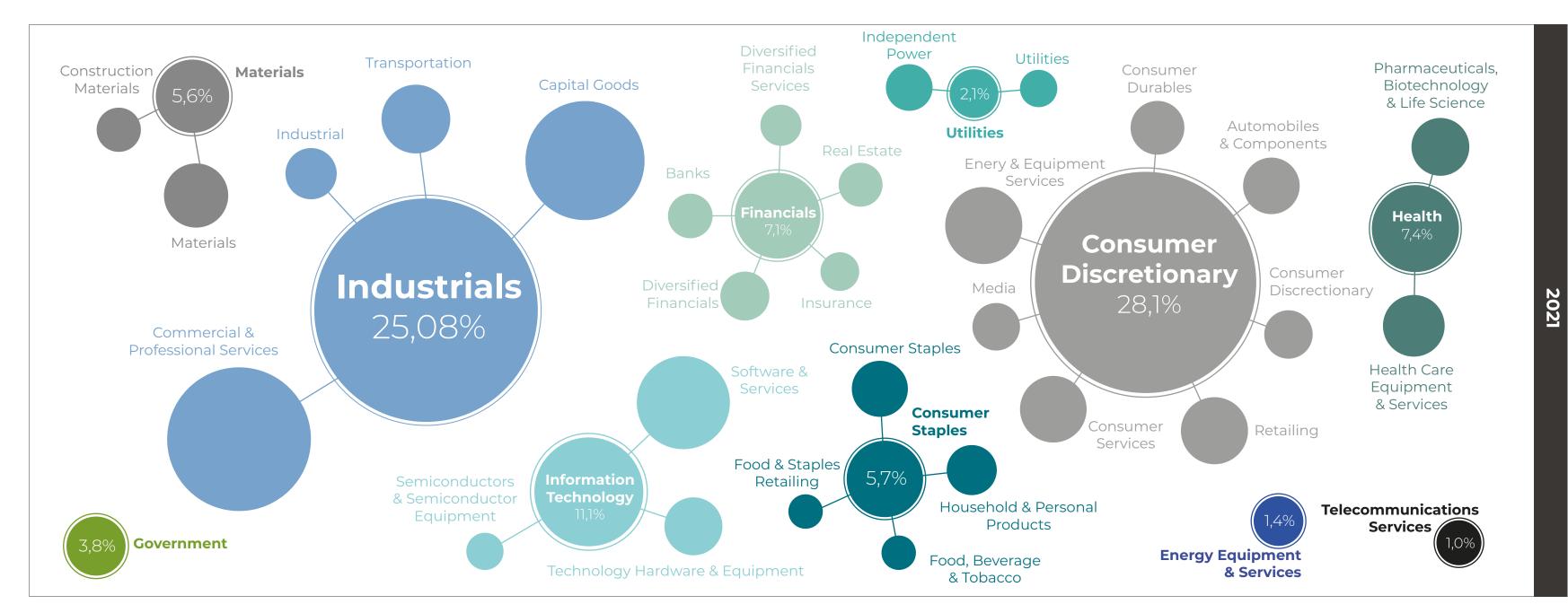
RANGE OF ANNUAL REVENUE





Global view of the most affected sectors







Global view by Ransomware Groups

Number of Ransomware Groups increased from 52 to 66 (+26%) and 30 groups of 2021 are still in 2022 (55%).

Lockbit	29,36	Cryptonicode	0,39
BlackCat	8,62	CryptOn	0,32
Conti	6,16	DON#T	0,32
Black Basta	5,62	Grief	0,28
Hive	4,83	Yanluowang	0,28
Karakurt	4,61	Bl00dy	0,28
Vice Society	3,78	Mallox	0,25
BianLian	2,41	SiegedSec	0,25
Royal	2,16	Pandora	0,25
Quantum	2,05	RedAlert	0,21
AvosLocker	1,83	LAPSUS\$	0,21
BlackByte	1,76	Qilin	0,21
AgainstTheWest	1,62	Daixin	0,21
LV ransomware	1,65	LeakTheAnalyst	0,18
Cuba	1,51	Relic	0,18
Stormous	1,44	DataLeak	0,18
Industrial Spy	1,26	Unsafe Security Blog	0,18
Lorenz	1,22	Arvin Club	0,14
Snatch	1,22	Payload.bin	0,10
Clop	1,11	Sabbath	0,10
Everest	1,11	Moses Staff	0,10
Ragnar Locker	1,08	MetaEncrypter	0,07
KelvinSecurity	1,08	Black Shadow	0,07
PLAY	1,01	Omega	0,07
RansomHouse	0,82	Night Sky	0,07
z6wkg	0,68	IMMORTAL\$	0,03
Suncrypt	0,54	Marketo	0,03
VSOP	0,54	Entropy	0,03
Sparta	0,46	Rook	0,03
Haron	0,46	CoomingProject	0,03
Anonymous	0,46	Dark Army	0,03
Mindware	0,46		
Ransomexx	0,43		
Endurance	0,43		
IceFire	0,39		
Revil	0,39		

The number of Ransomware Groups increased from 52 to 66 (+26%).

30 groups of 2021 are still

in 2022 (55%).

rysa	7,33
DoppelPaymer	6,63
Avaddon	5,37
Revil	4,80
Clop	2,91
Grief	2,55
Darkside	2,51
Hive	2,25
Marketo	2,22
Everest	1,92
AvosLocker	1,79
LV ransomware	2,22
Prometheus	1,52
Babuk	1,49
Corporate	1,35
BlackByte	1,32
CoomingProject	1,29
Spook	1,22
Haron	1,12
BlackMatter	1,12
Ragnarok	1,45
Cuba	1,09
Karakurt	1,09
Vice Society	1,06
Payload.bin	0,89
Ransomexx	0,89
Lorenz	0,86
Snatch	0,79
Xing Team	0,72
Netwalker	0,62
Ragnar Locker	0,49
Astro Team	0,49
Moses Staff	0,49
SynACK	0,43

Conti

Pysa

Lockbit

Egregor	0,39
BlackCat	0,33
Sabbath	0,29
Entropy	0,26
Groove	0,26
Quantum	0,26
Suncrypt	0,23
Arvin Club	0,23
Mount Locker	0,19
Rook	0,19
Bonaci	0,19
LockData Auction	0,16
Atomsilo	0,16
N3tw0rm	0,13
Karma	0,09
Bl@ckt0r	0,09
RobinHood	0,09
Black Shadow	0,09

Blackcat in 2022 entered the top 3 (+8%).

Pysa was
in the top 3
in 2021 but
the next year
disappeared.

2022

2021

16,64

15,08

7,39

Global view

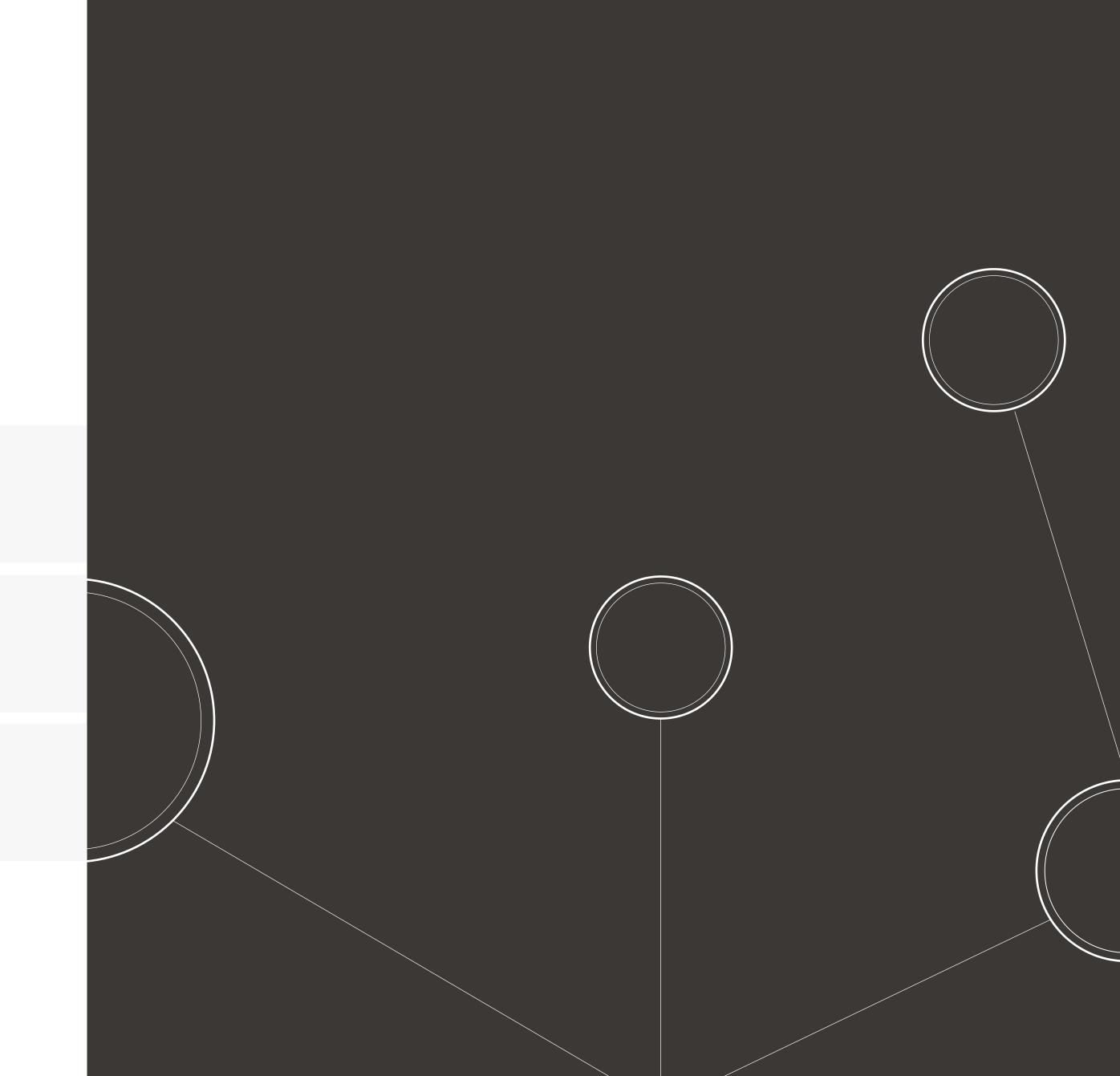
of the top three

Ransomware Groups

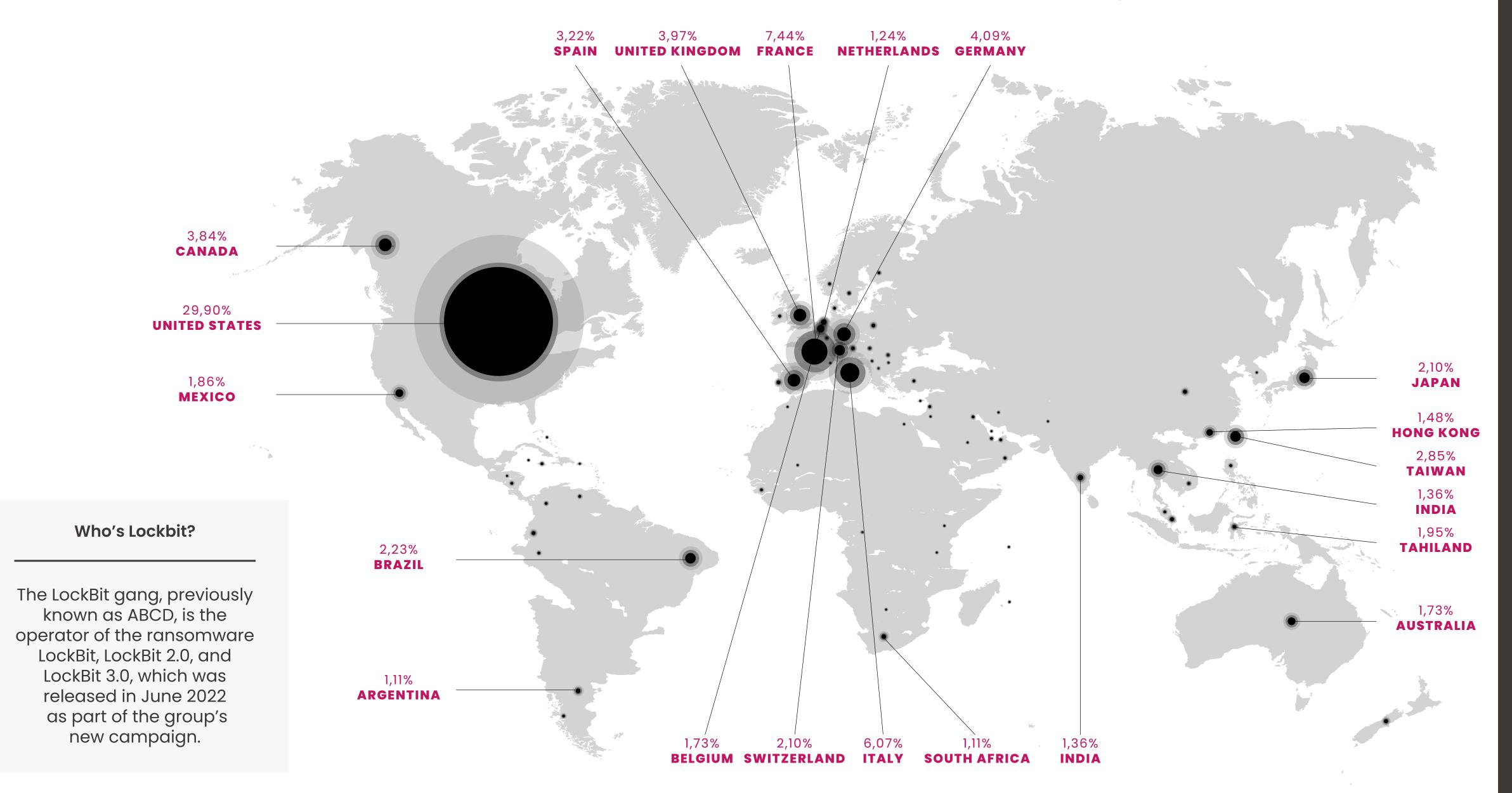
LOCKBIT

2 BLACKCAT

3 CONTI

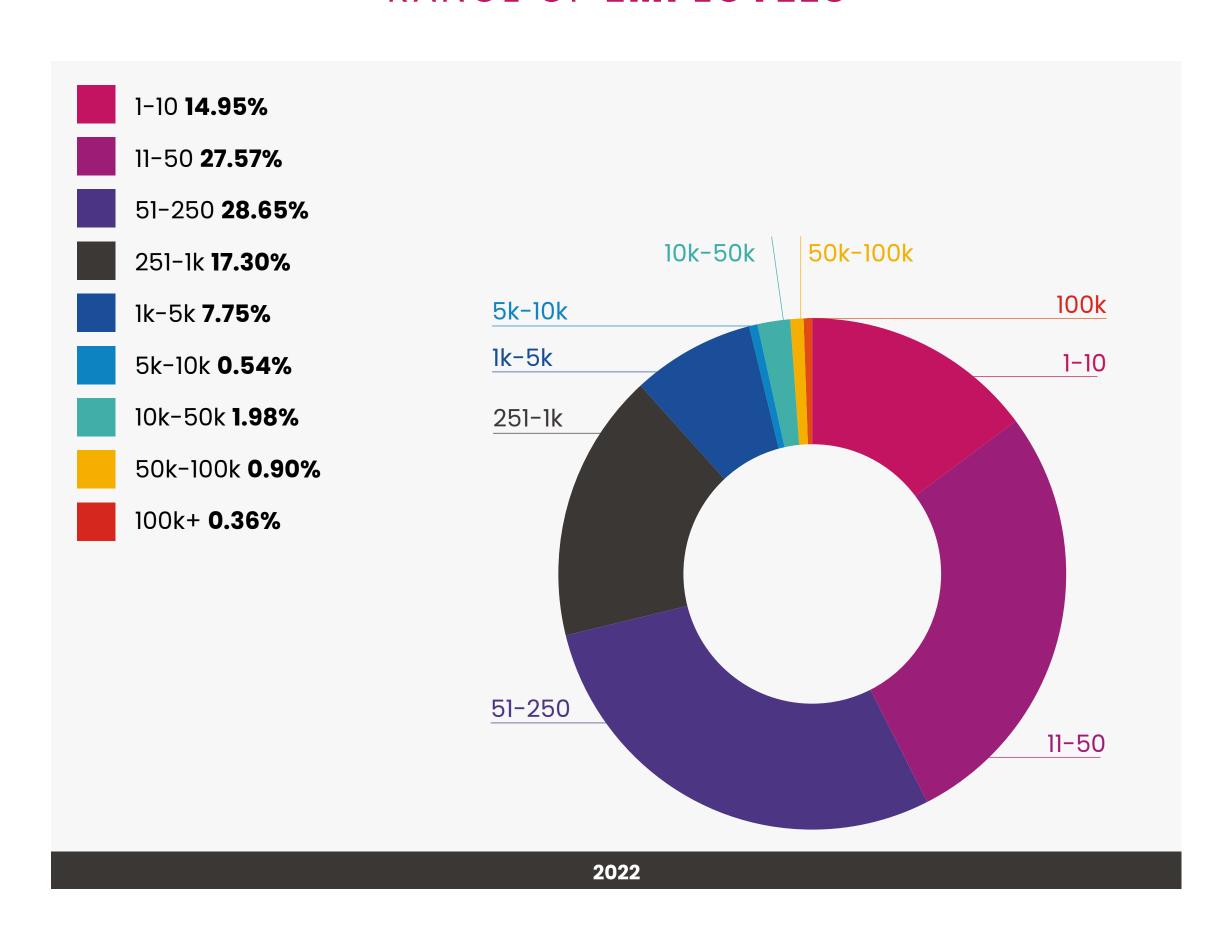


Lockbit: most targeted areas

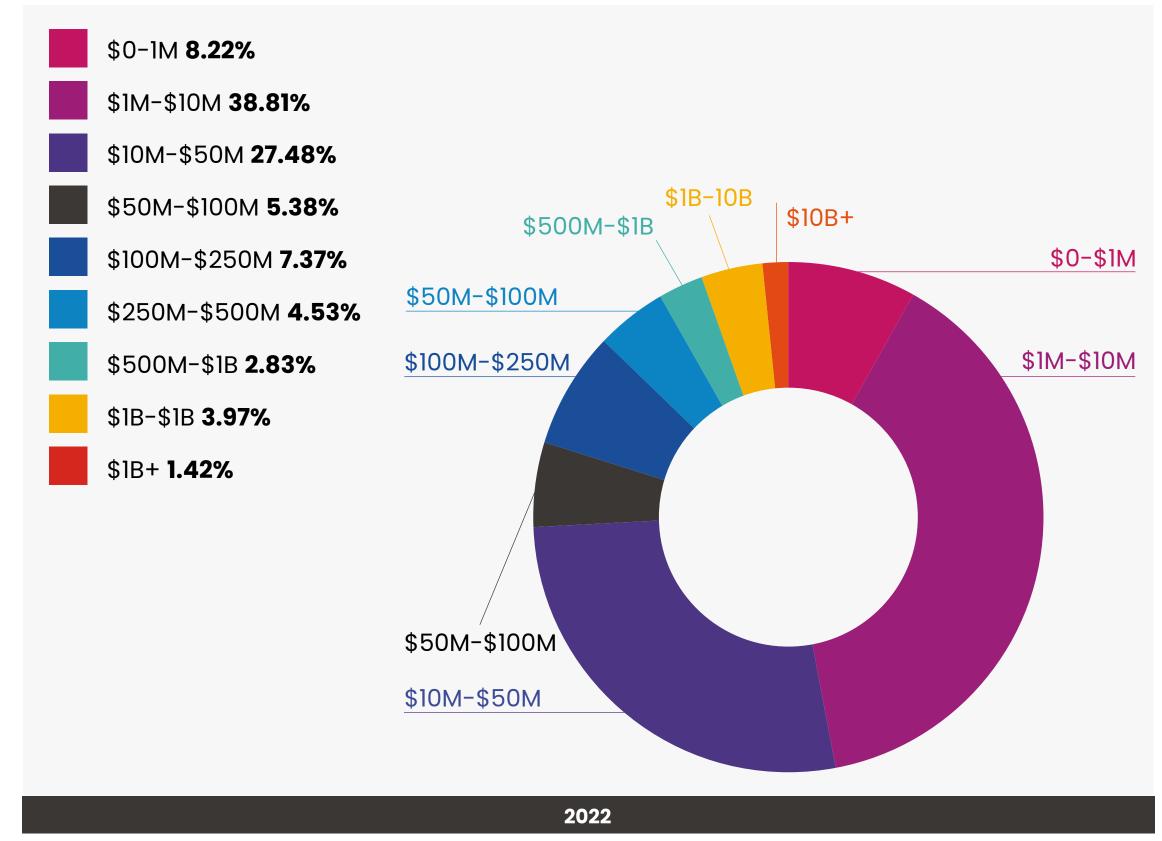


Lockbit: most breached companies

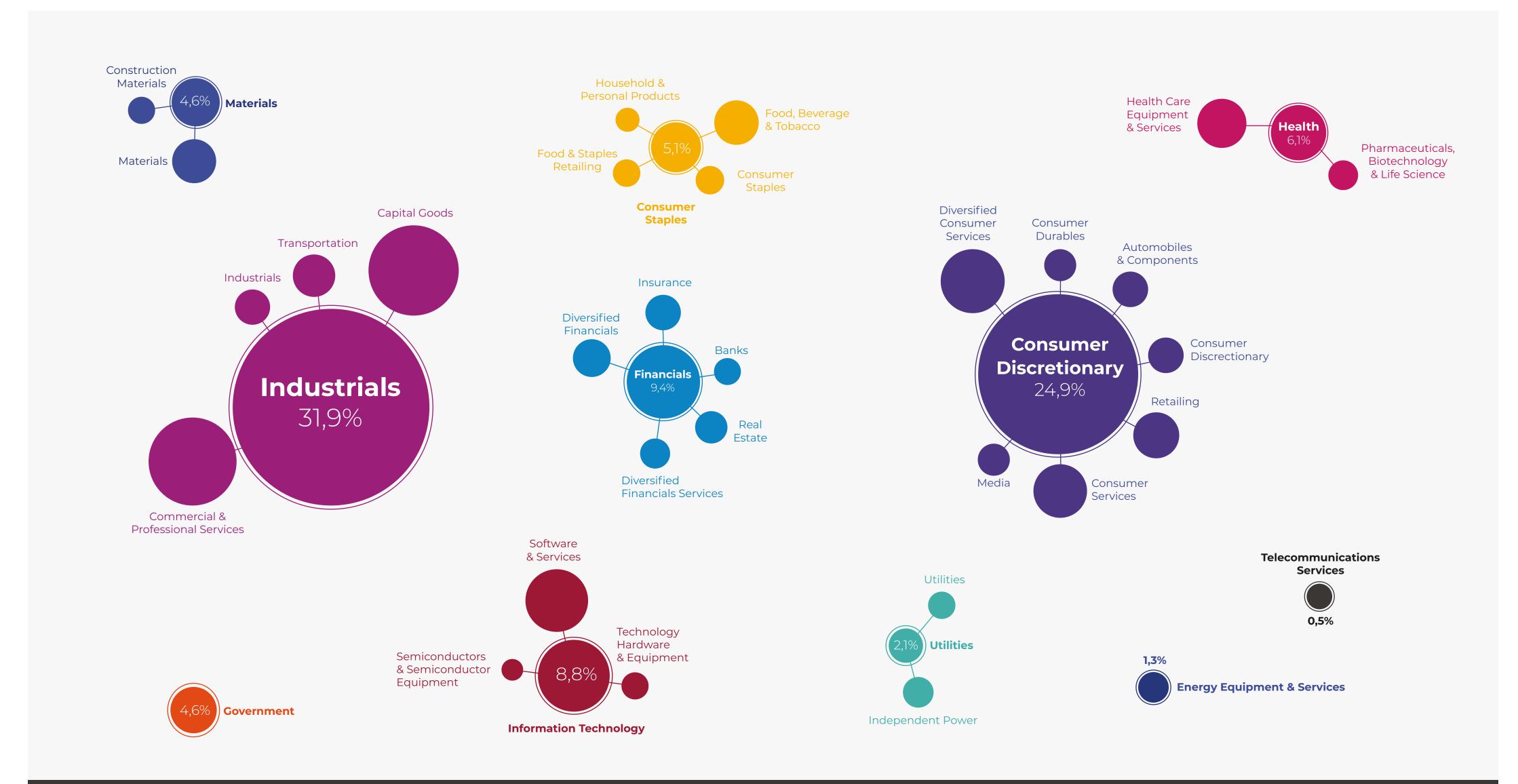
RANGE OF **EMPLOYEES**



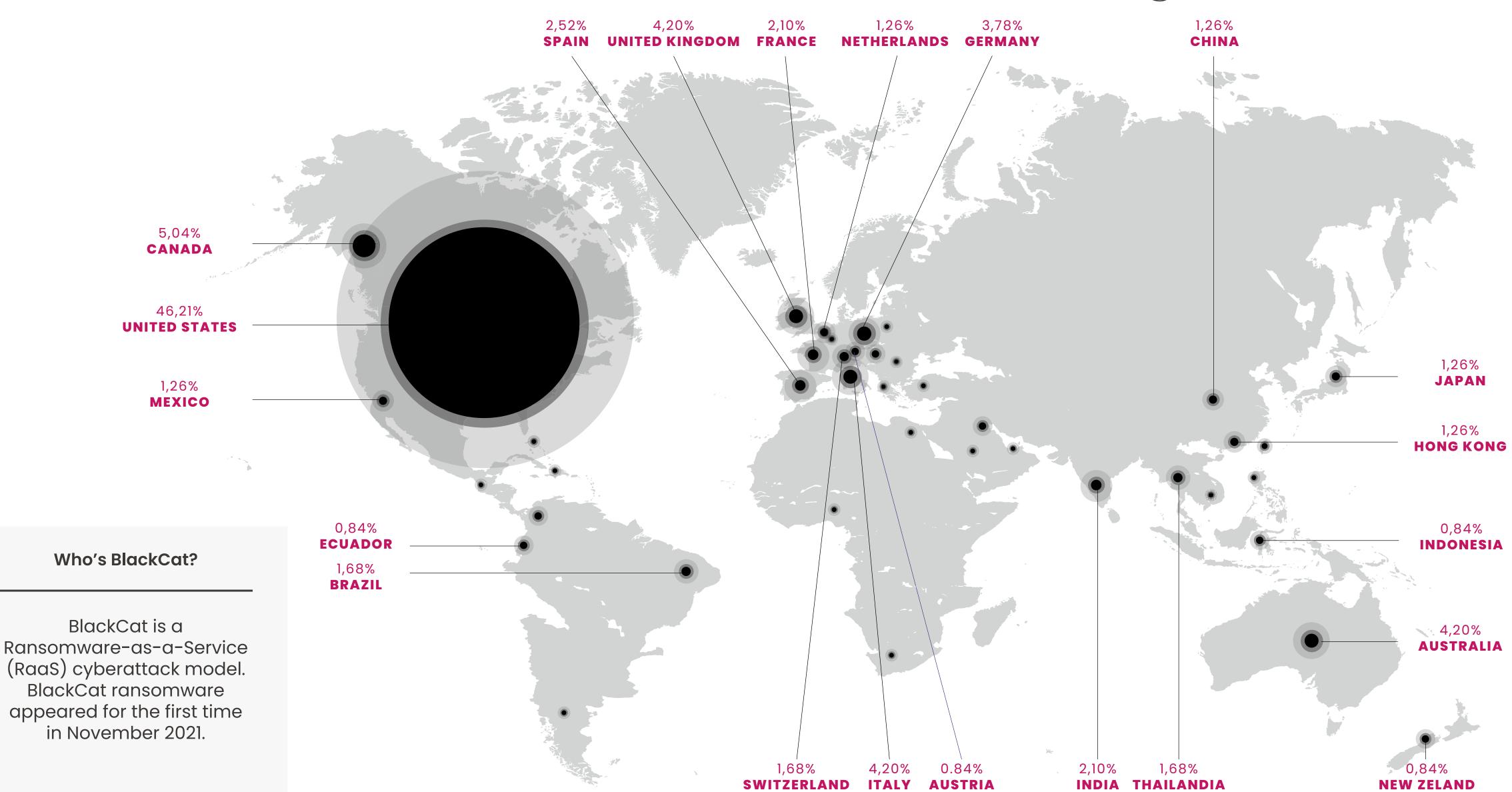
RANGE OF ANNUAL REVENUE



Lockbit: most affected sectors

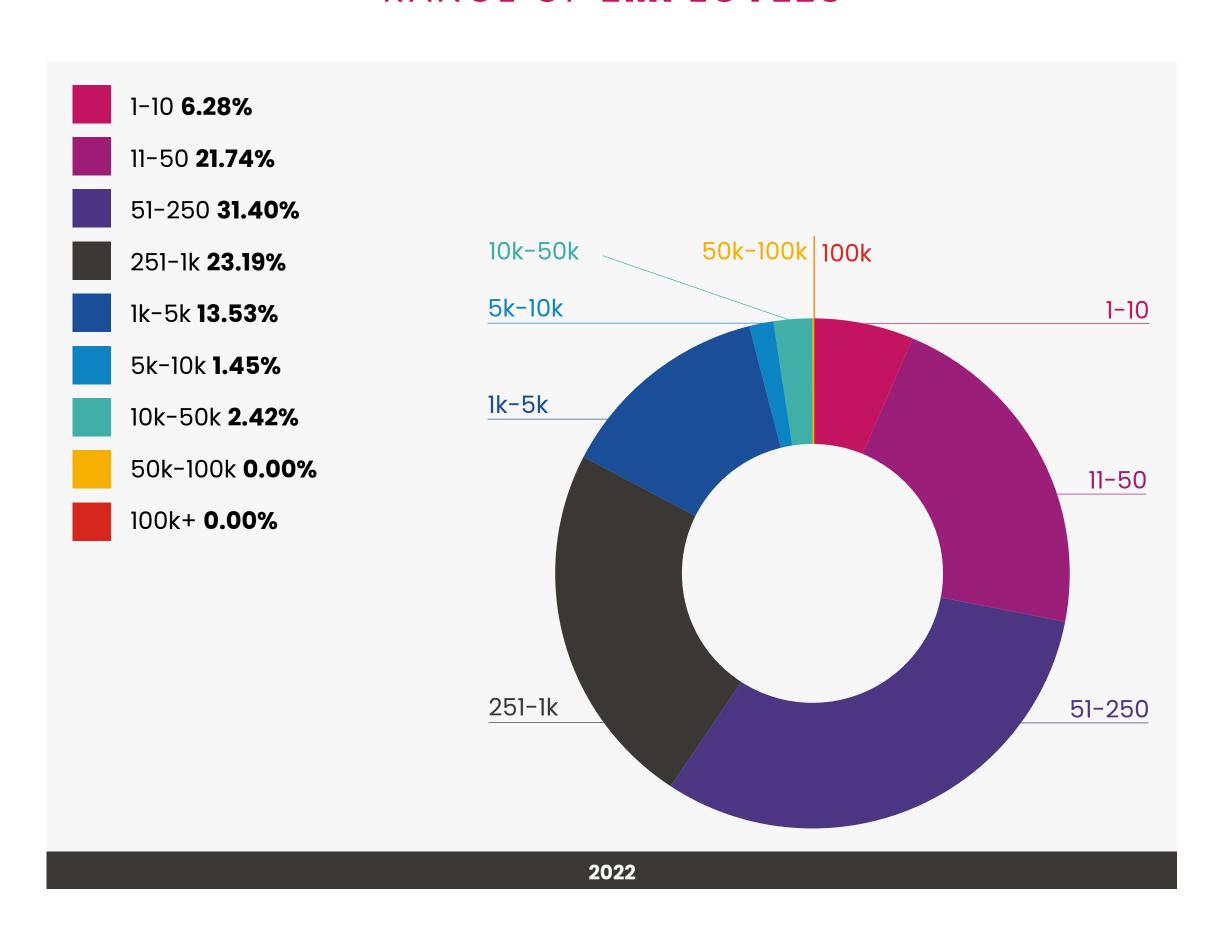


Blackcat: most targeted areas

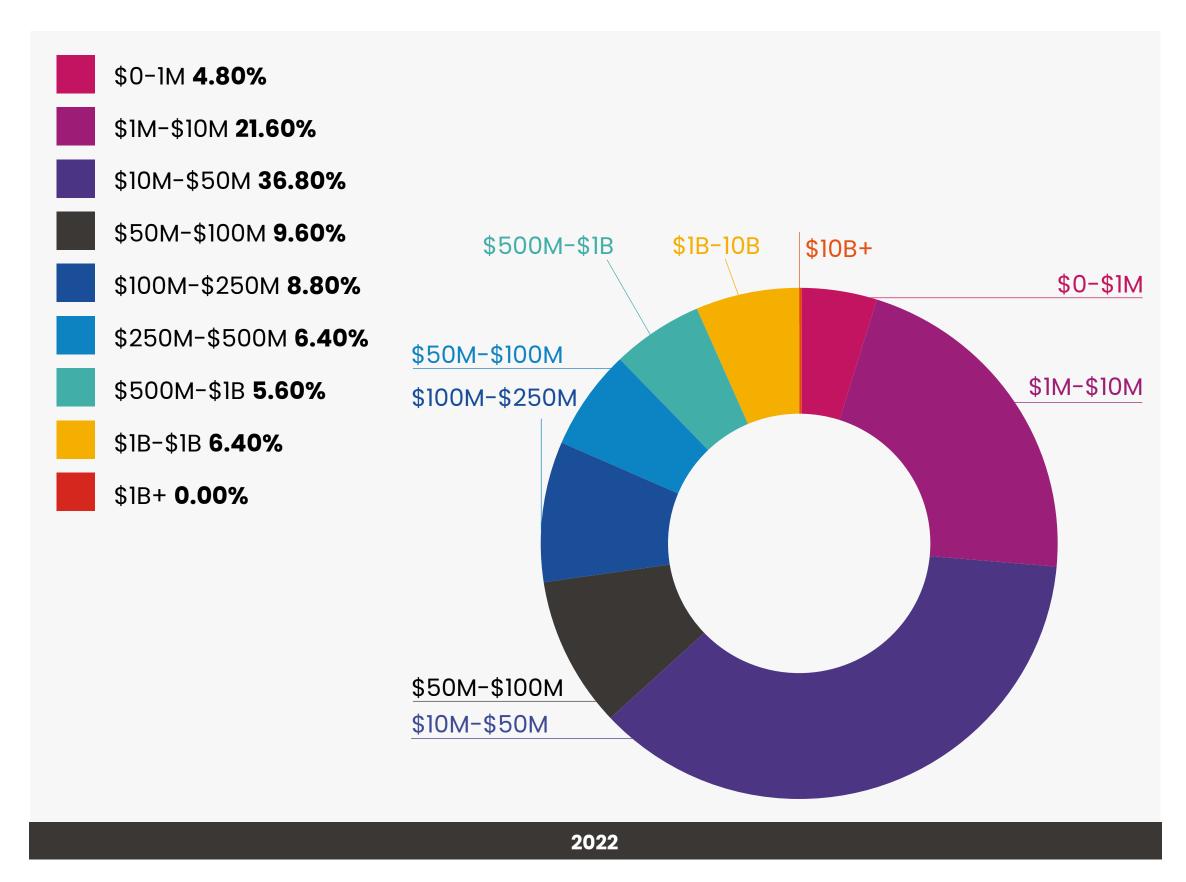


Blackcat: most breached companies

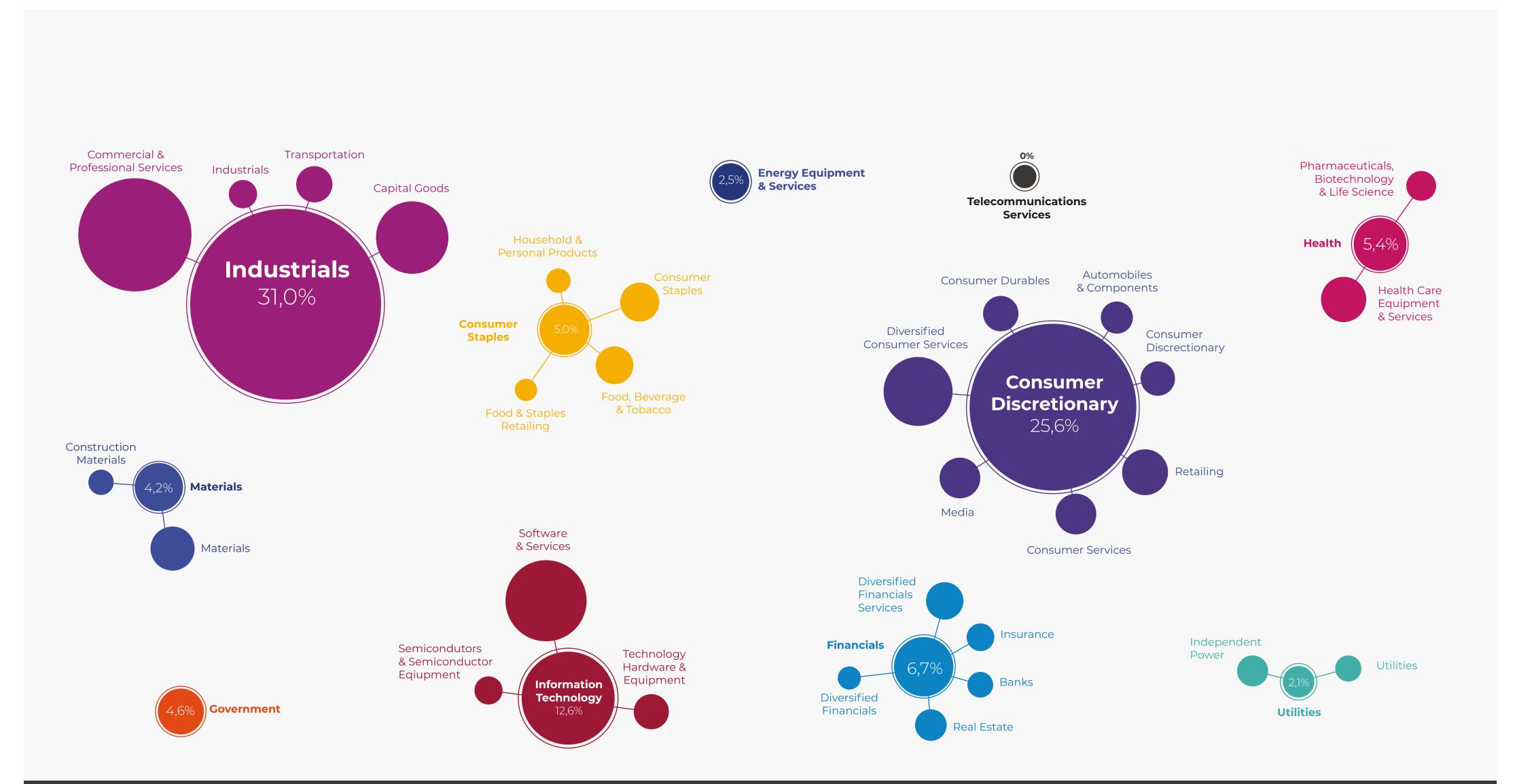
RANGE OF **EMPLOYEES**



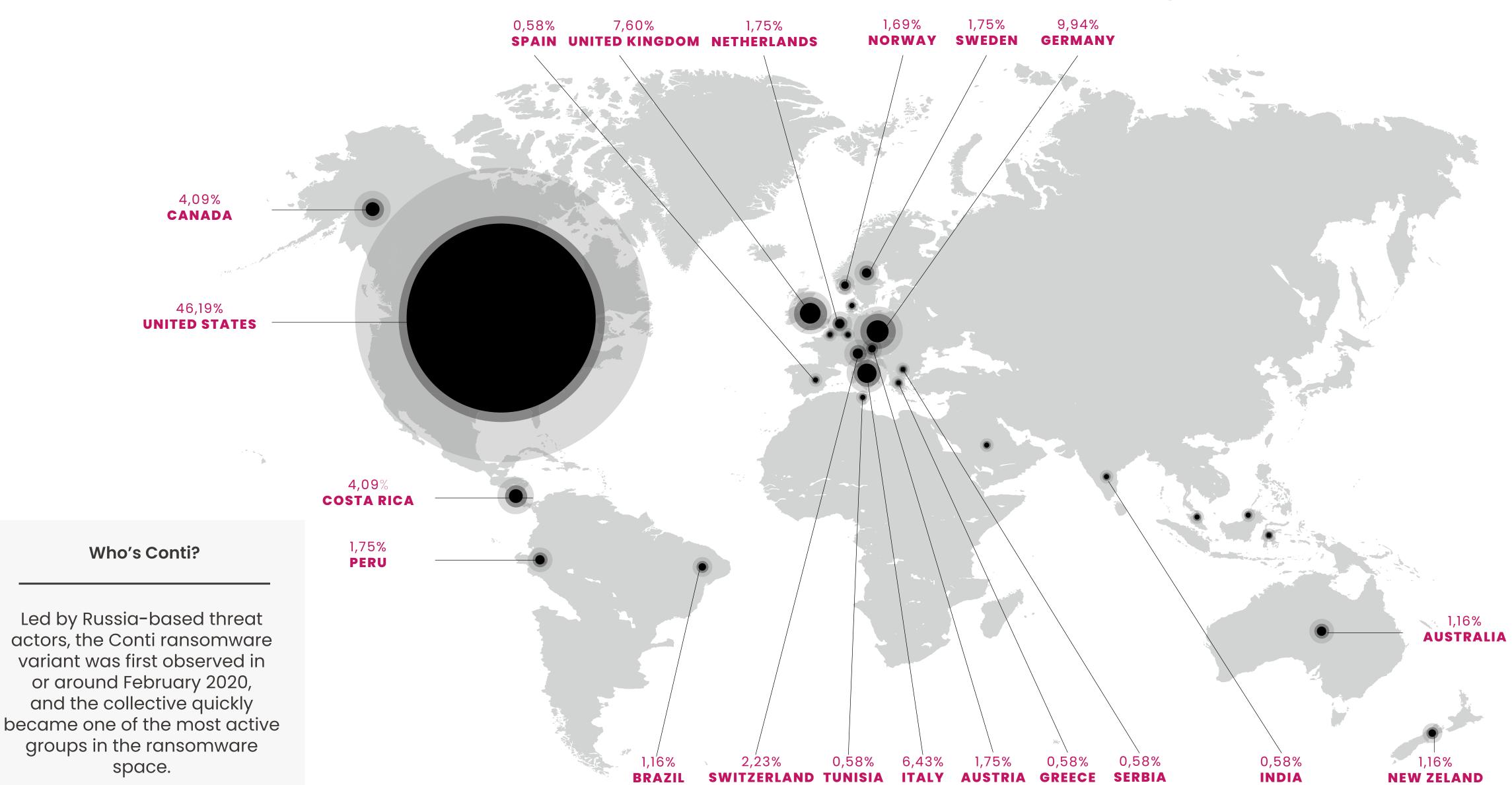
RANGE OF ANNUAL REVENUE



Blackcat: most affected sectors

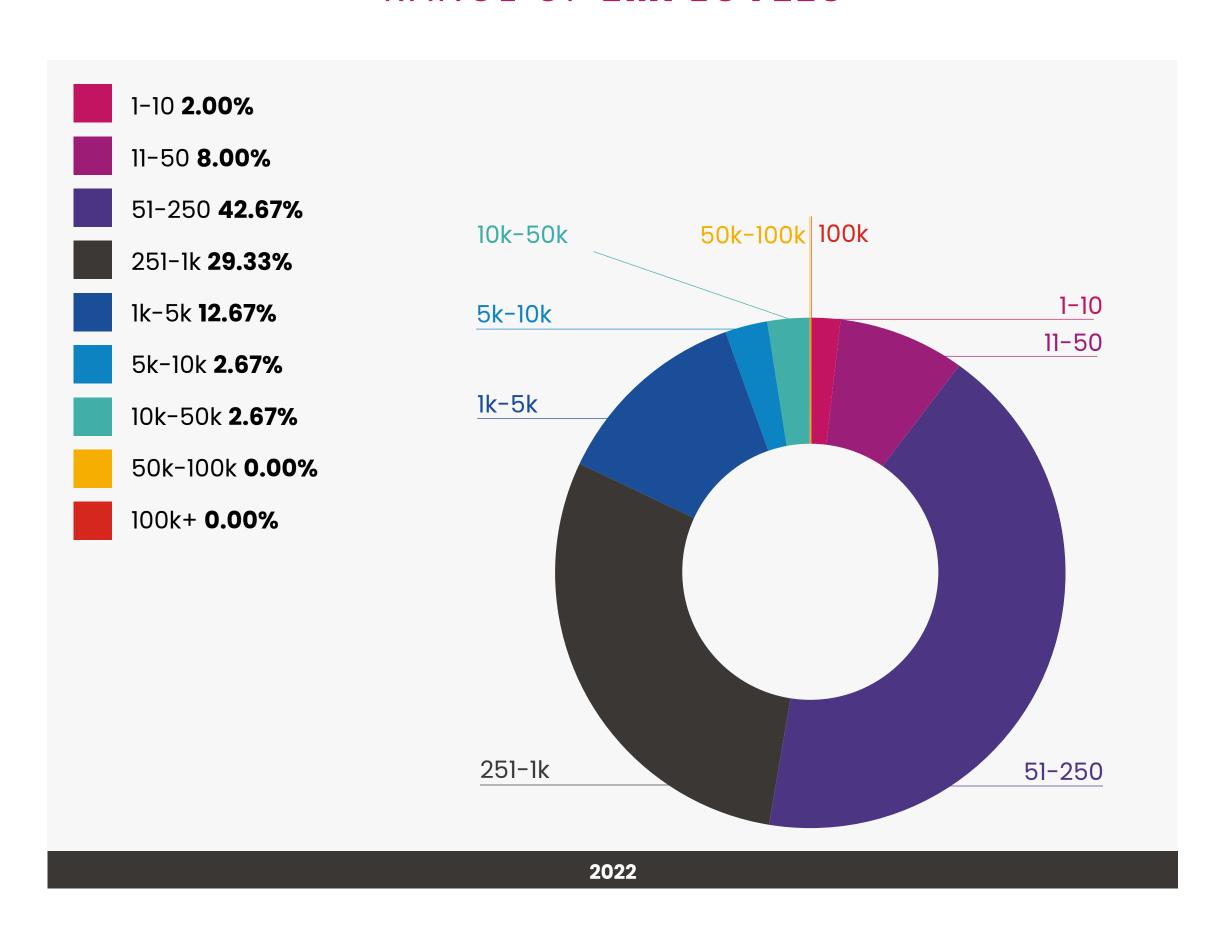


Conti: most targeted areas

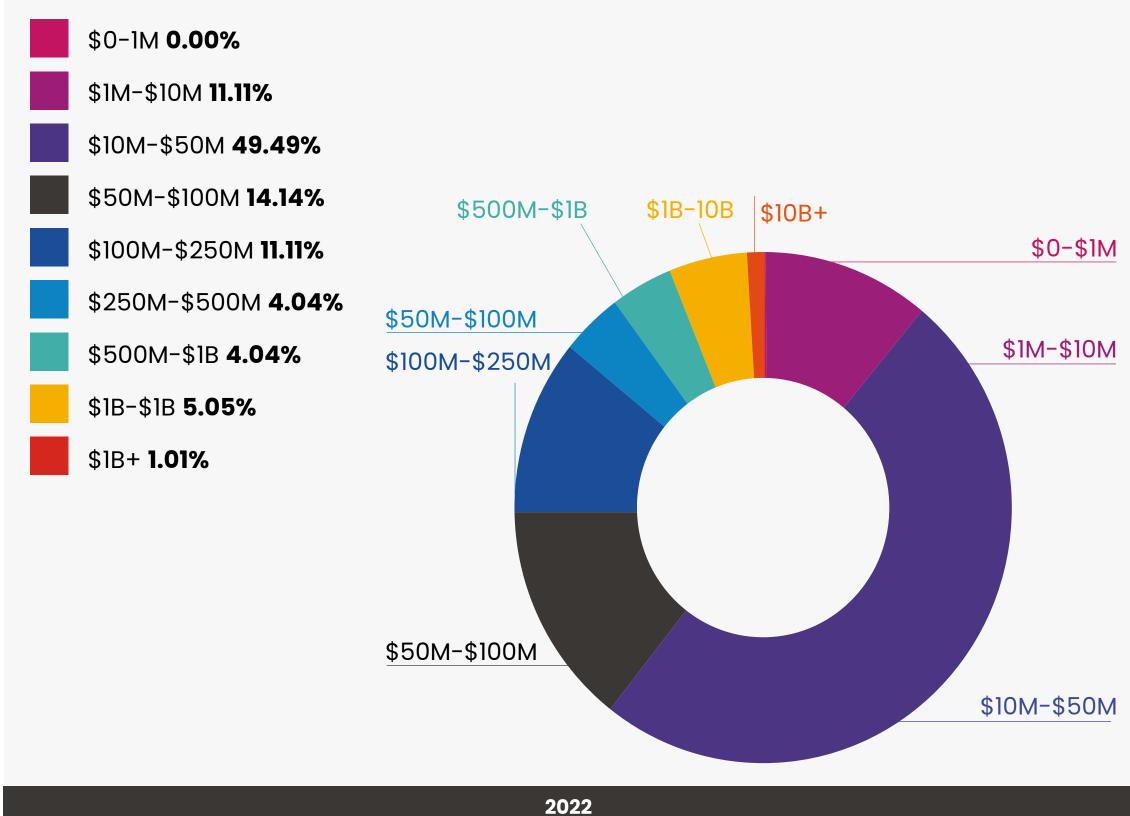


Conti: most breached companies

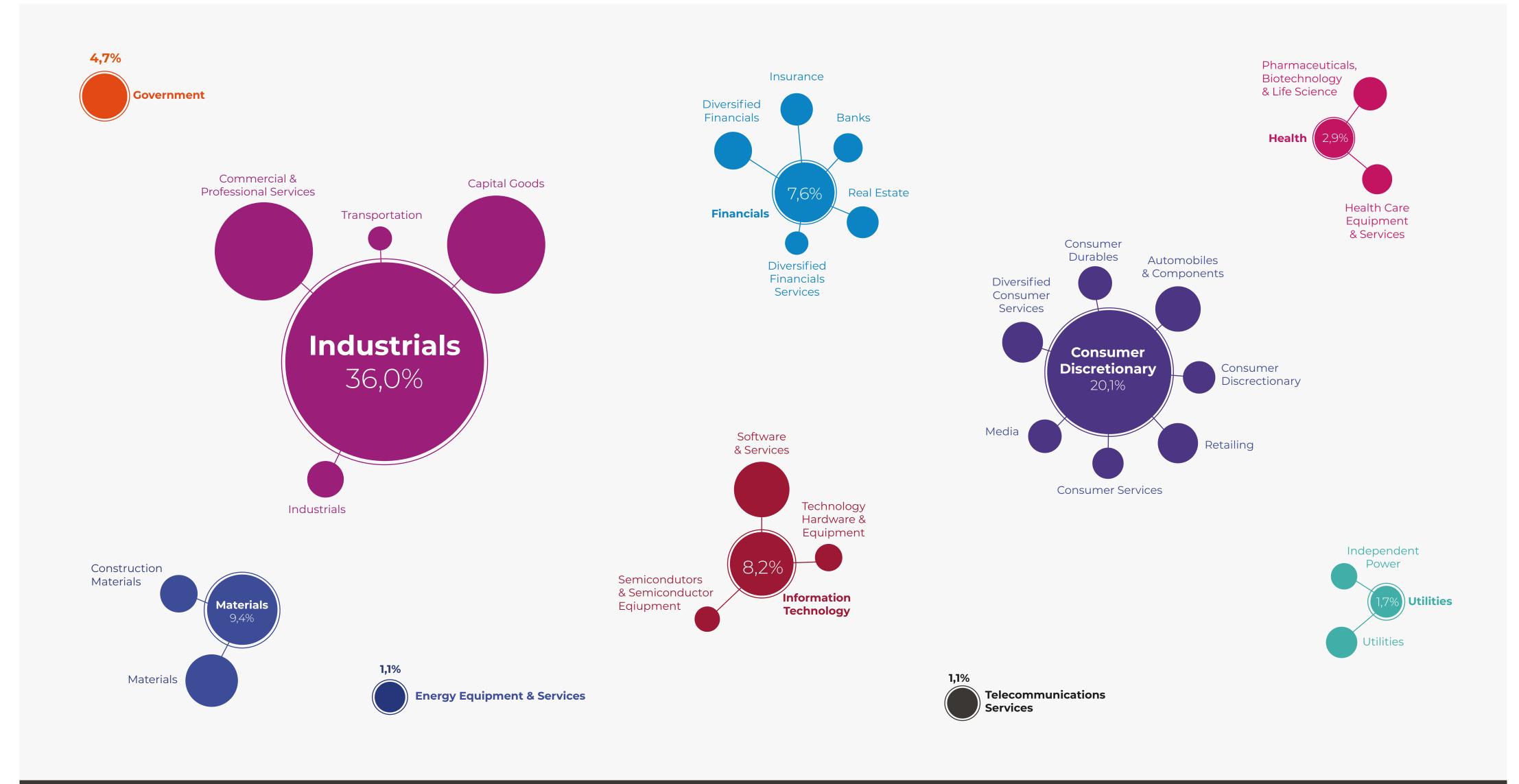
RANGE OF **EMPLOYEES**



RANGE OF ANNUAL REVENUE



Conti: most affected sectors



North America view

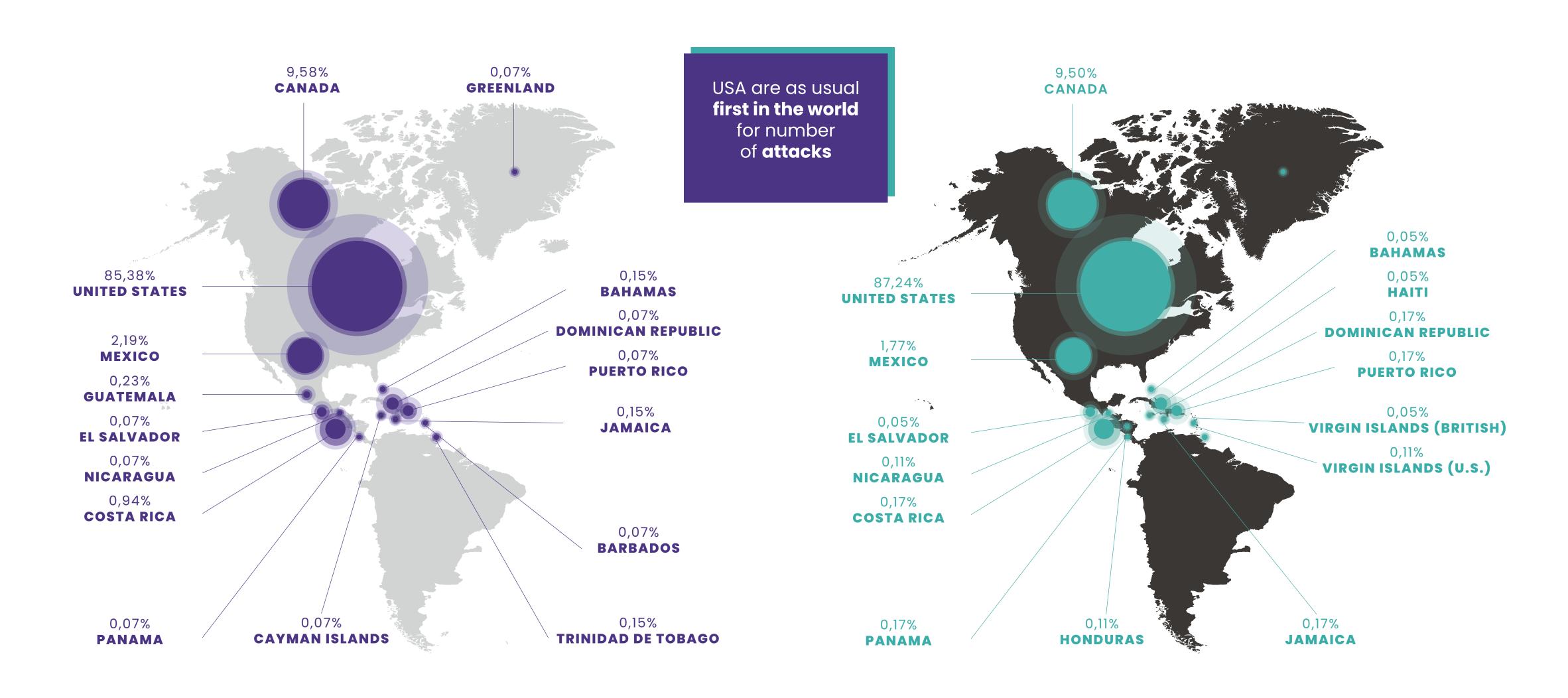
COMPARISON BETWEEN 2022 AND 2021

- Geographical areas
- Range of employees
- Range of annual revenues





North America view by geographical areas

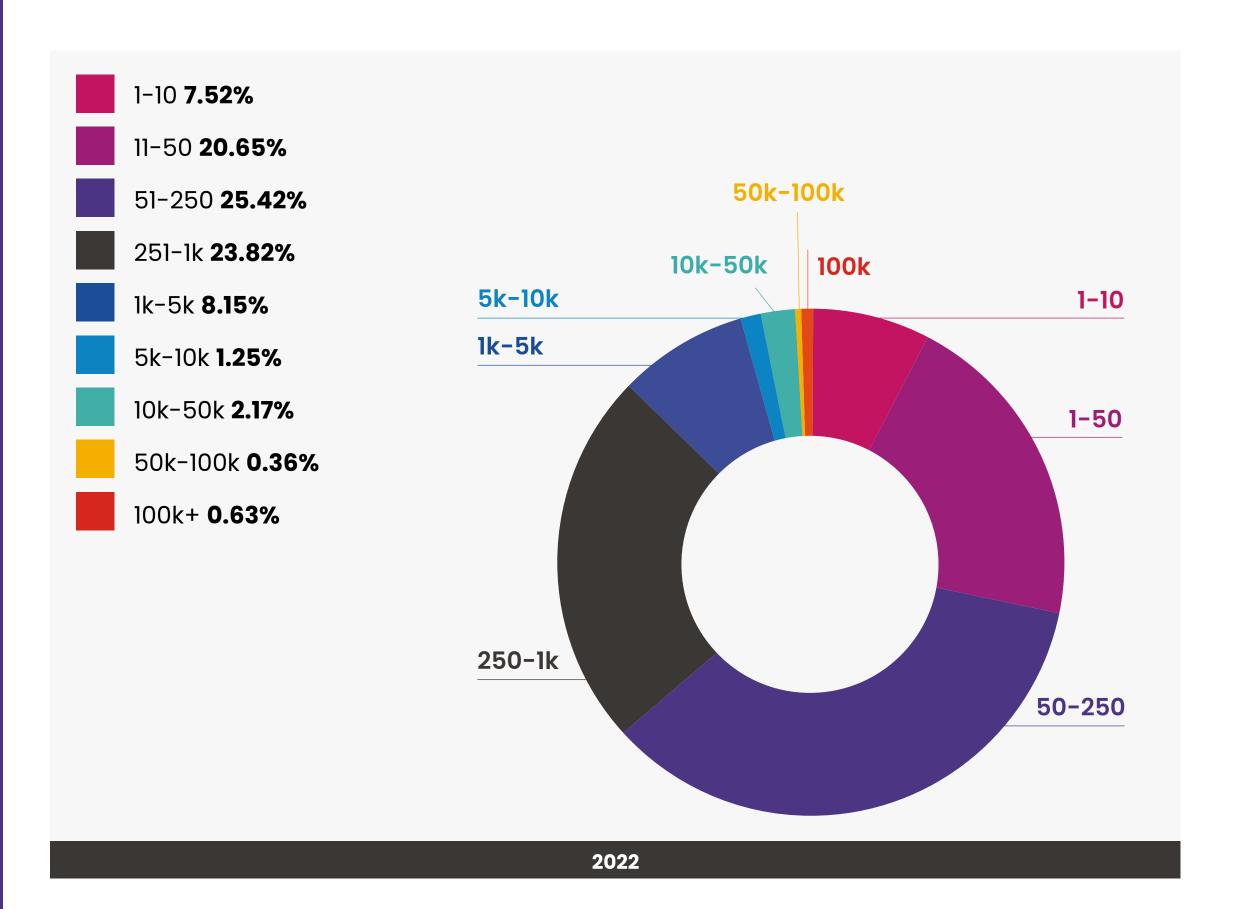




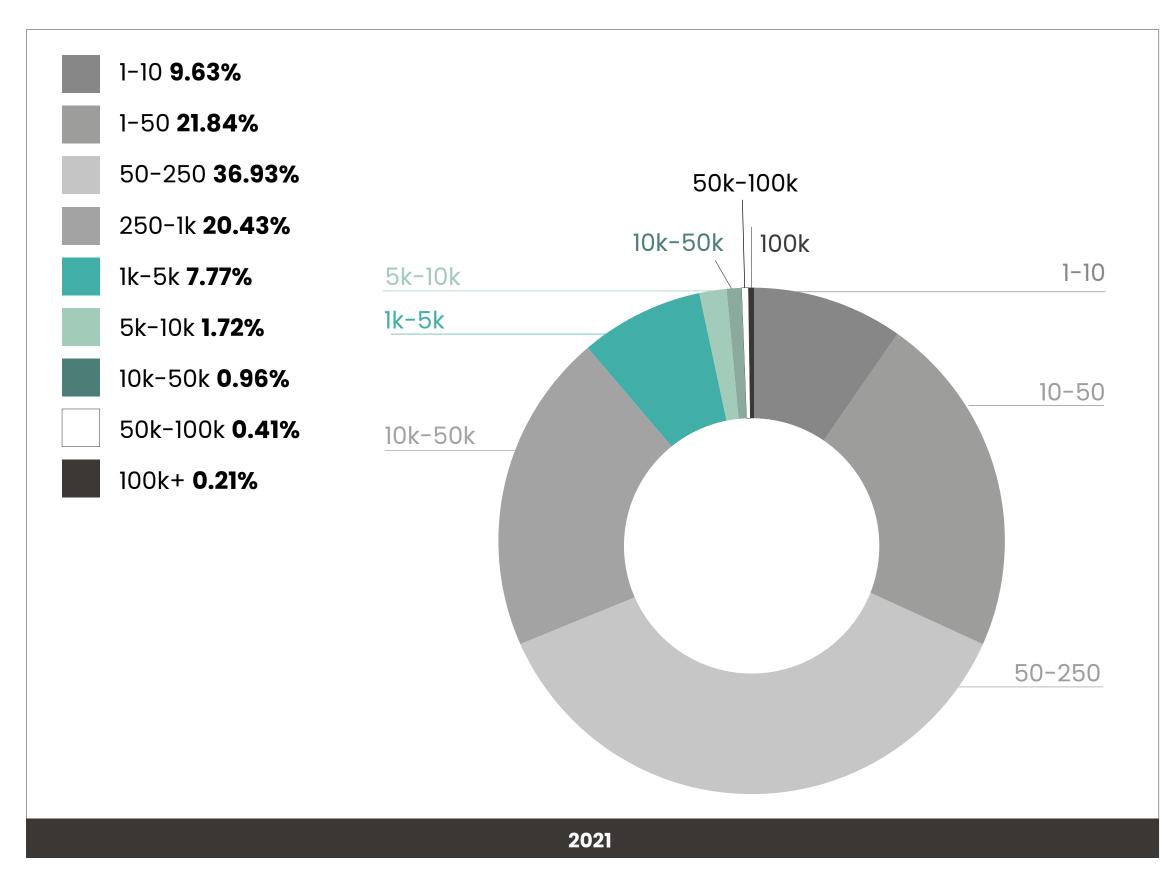
North America view by range of employees

Although North America is the area that suffered most of attacks, it is also the one that recorded the major decrease (-10%).

RANGE OF EMPLOYEES



RANGE OF EMPLOYEES

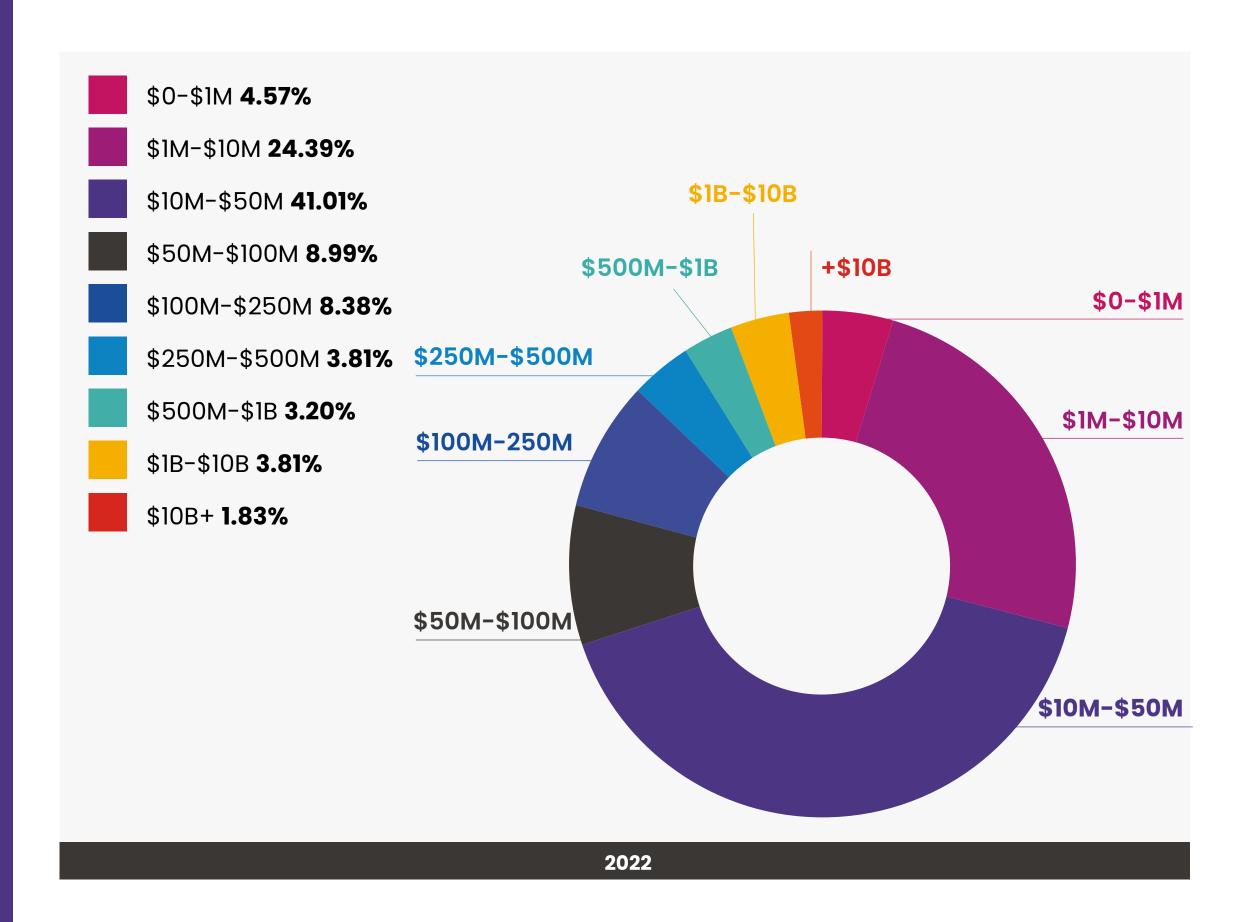




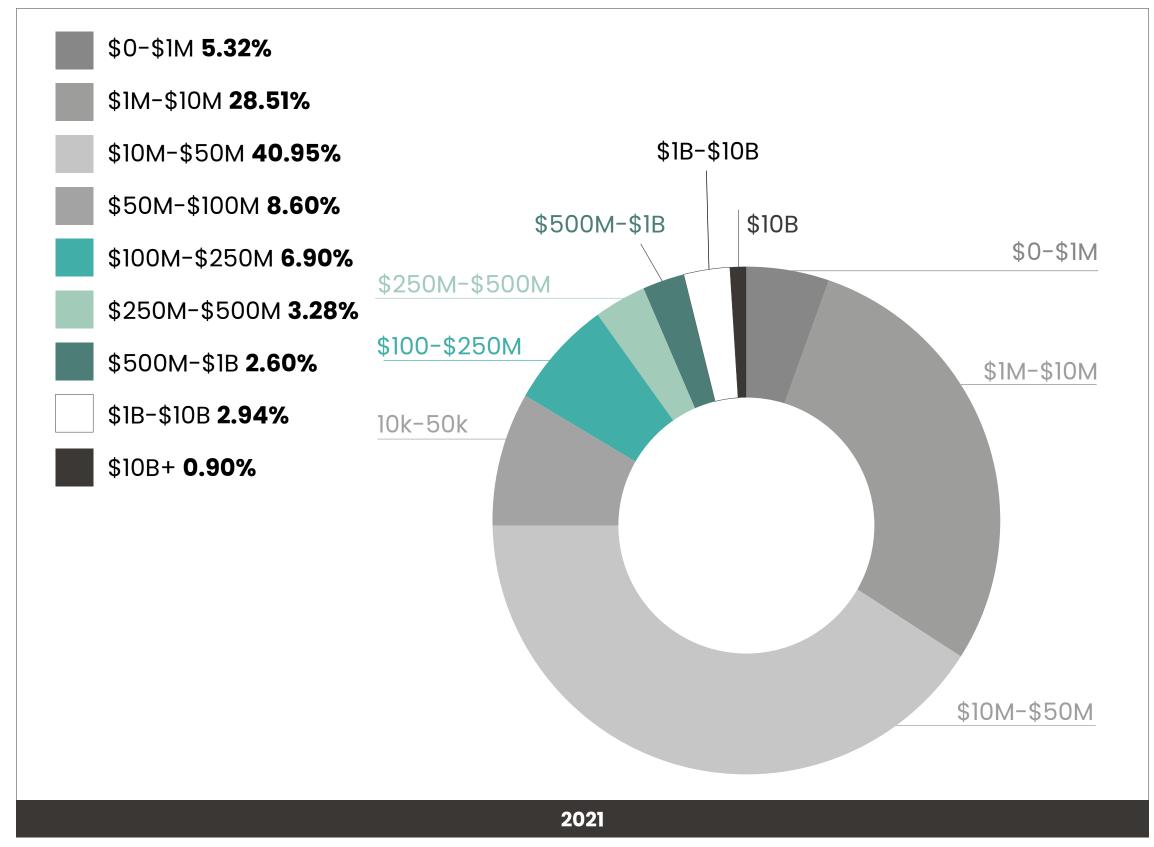
North America view by revenues range

SMEs and in particular companies with **revenues between \$0 and \$50M** represent 3/4 of the total number of companies affected.

RANGE OF ANNUAL REVENUE

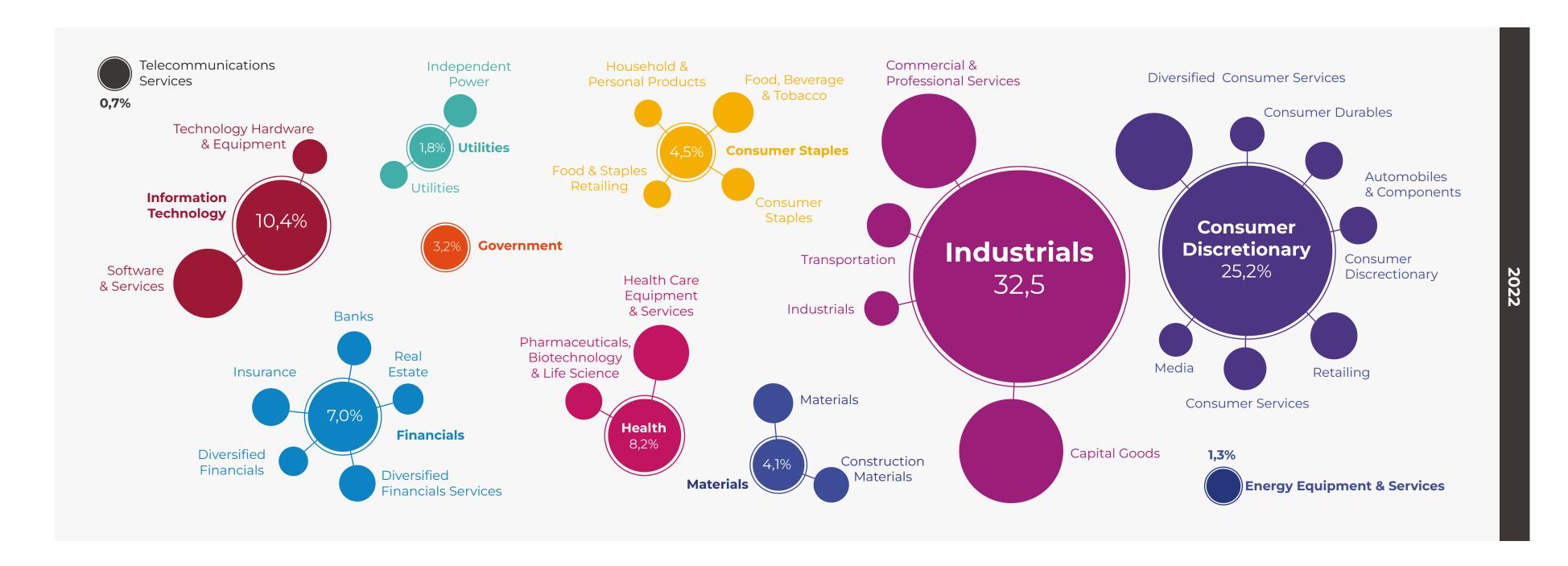


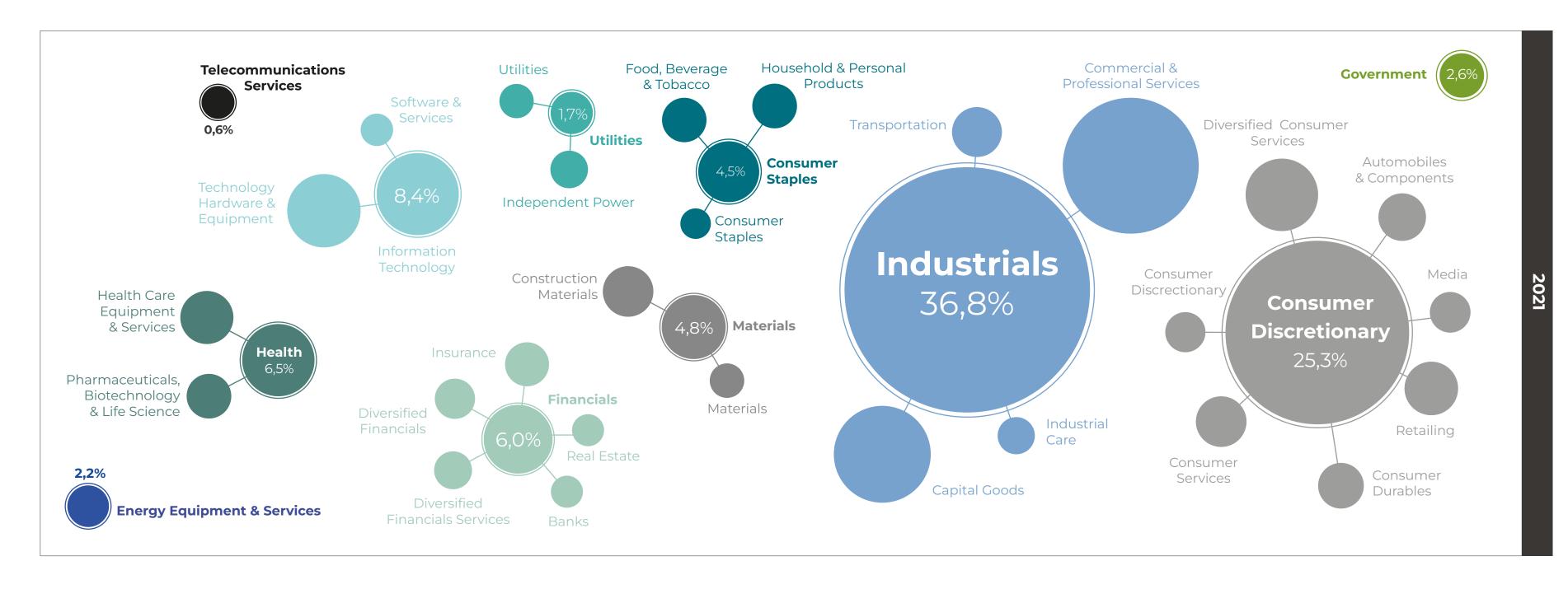
RANGE OF ANNUAL REVENUE





North America view of the offected sectors

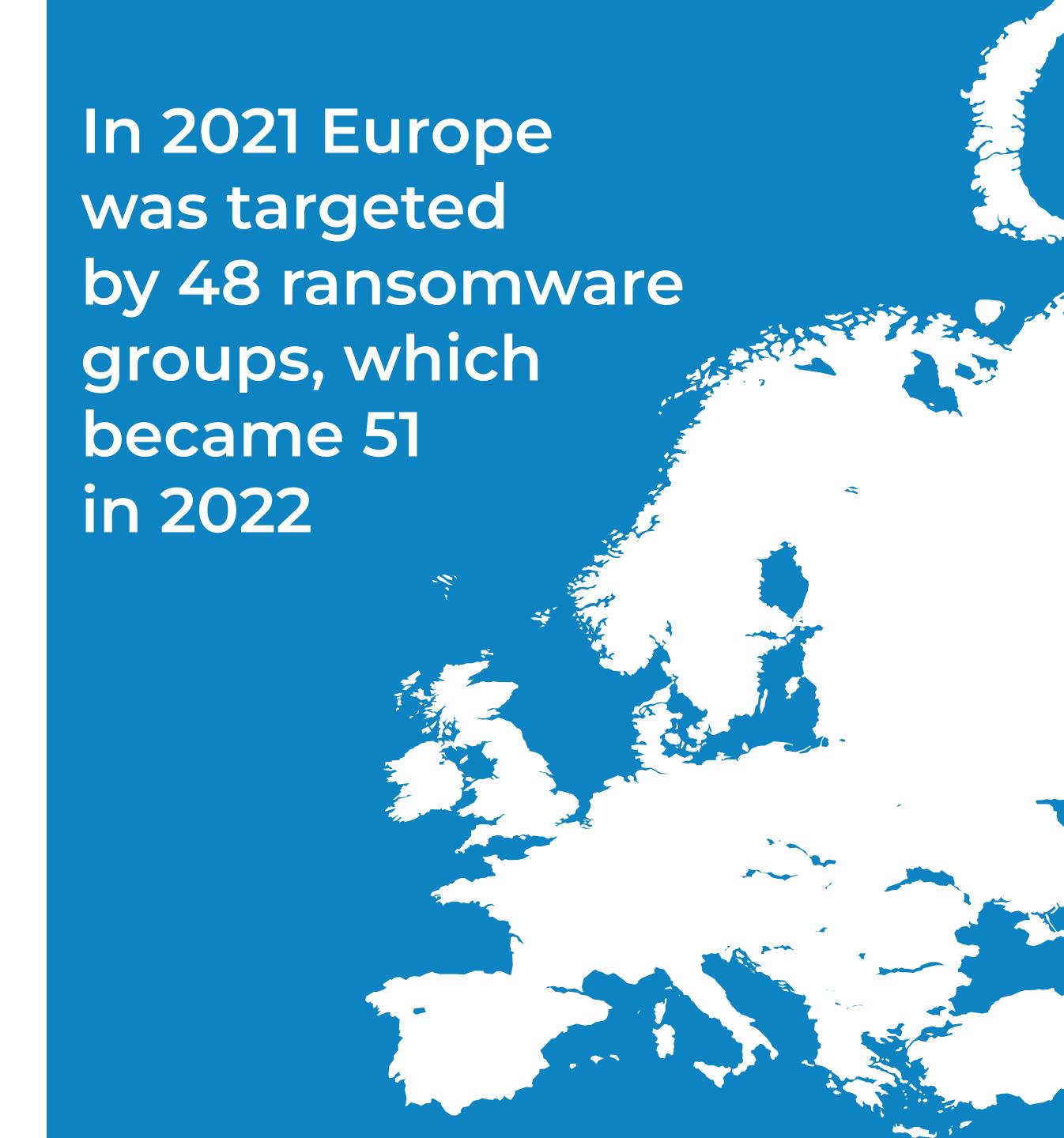




Europe View

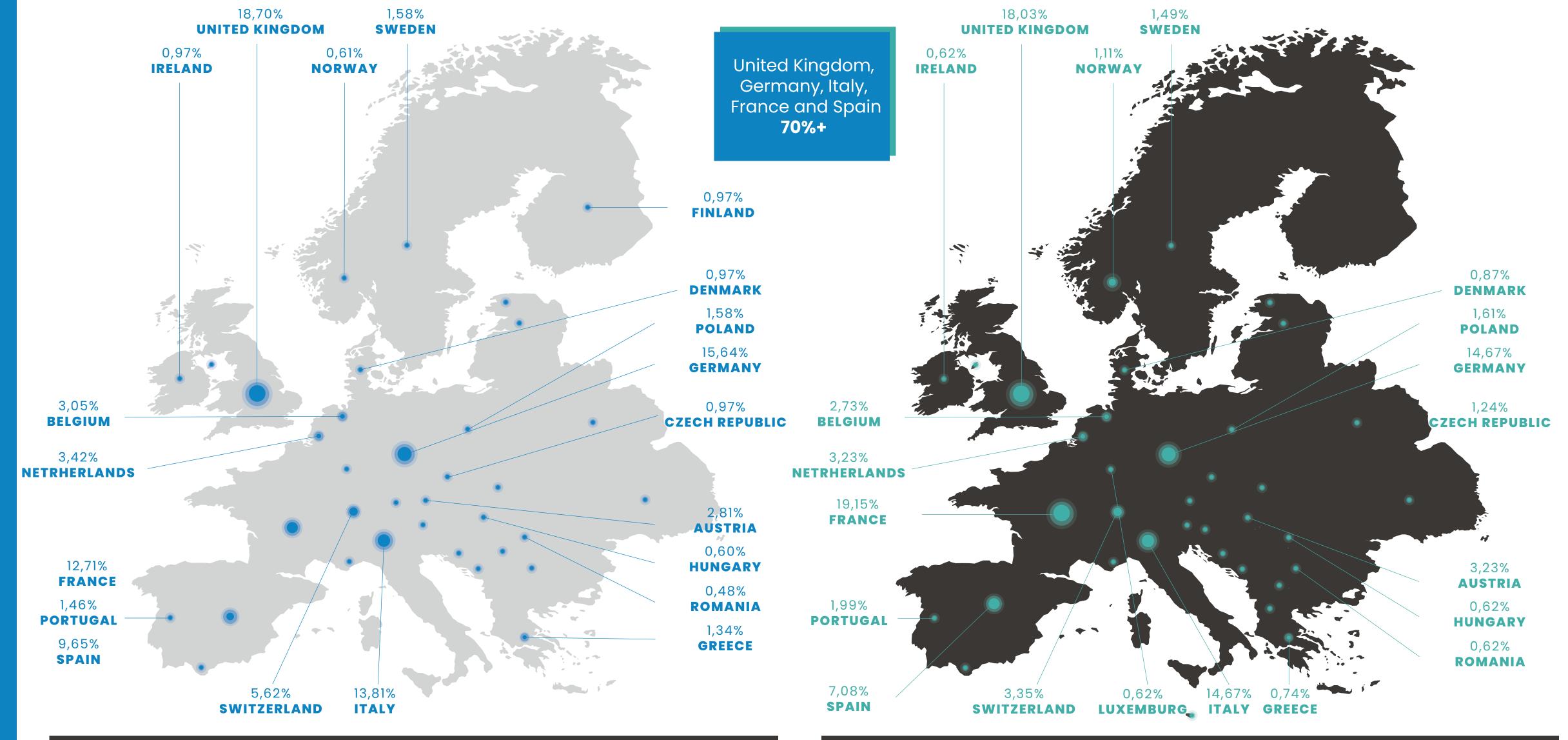
COMPARISON BETWEEN 2022 AND 2021

- Geographical areas
- Range of employees
- Range of annual revenues





Europe view by geographical areas

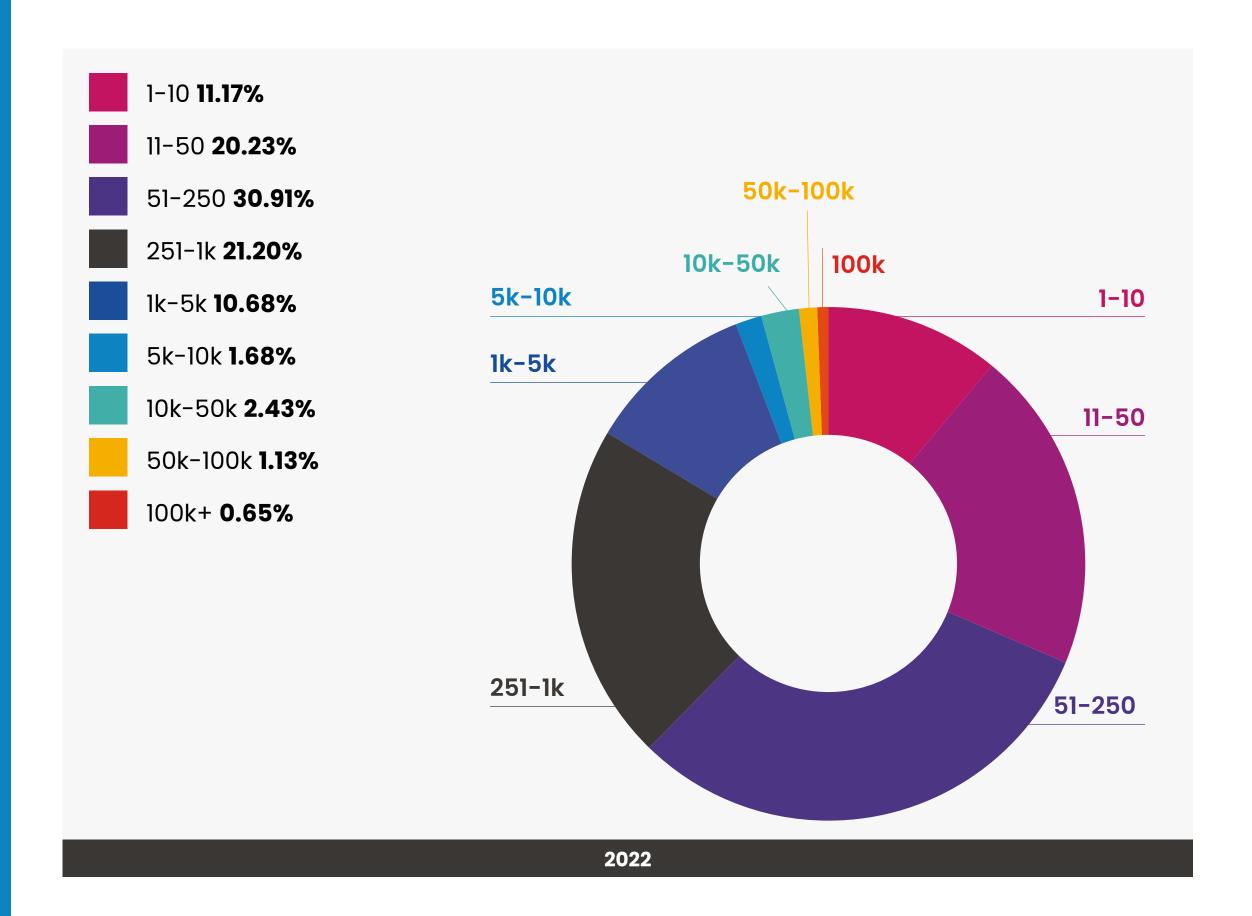




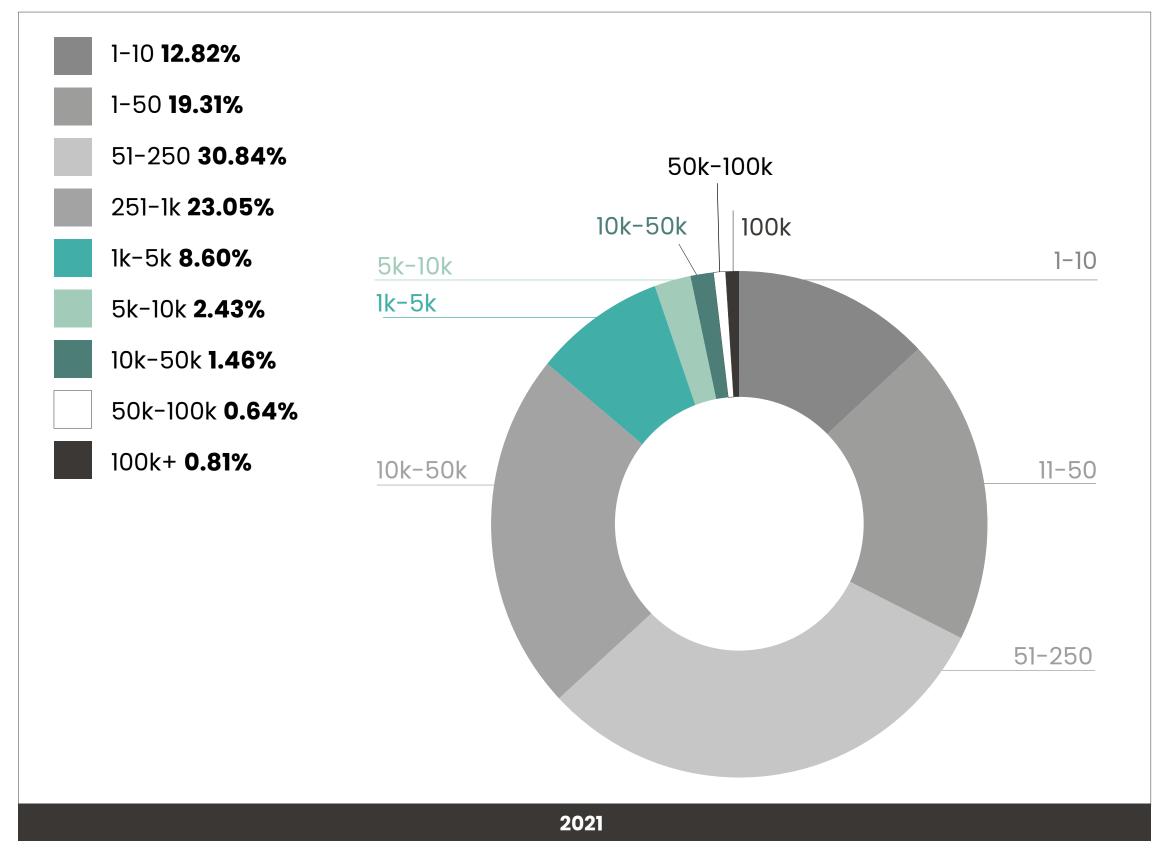
Europe view by range of employees

About 60% of targeted companies in 2021 and 2022 have less than 250 employees.

RANGE OF EMPLOYEES



RANGE OF EMPLOYEES

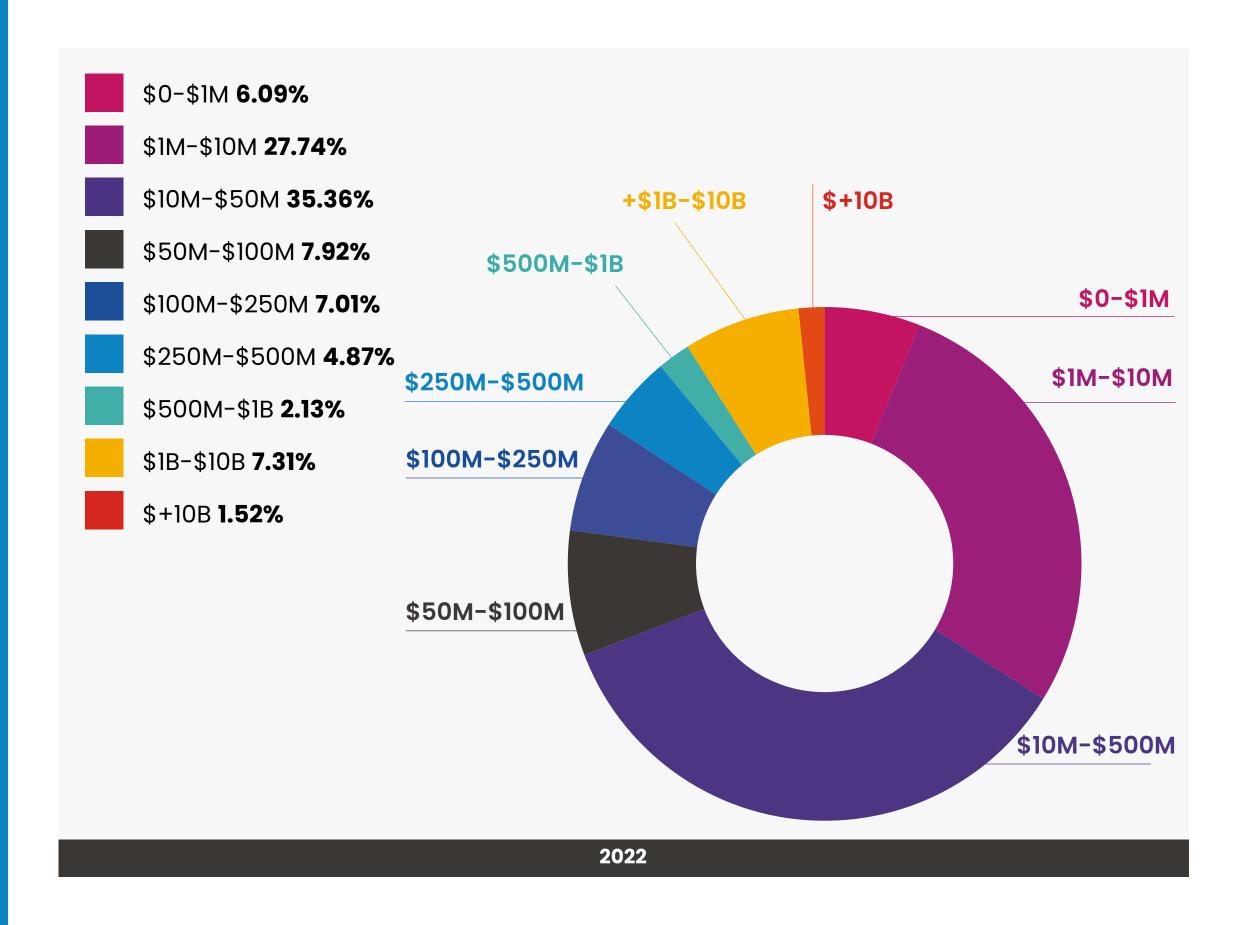




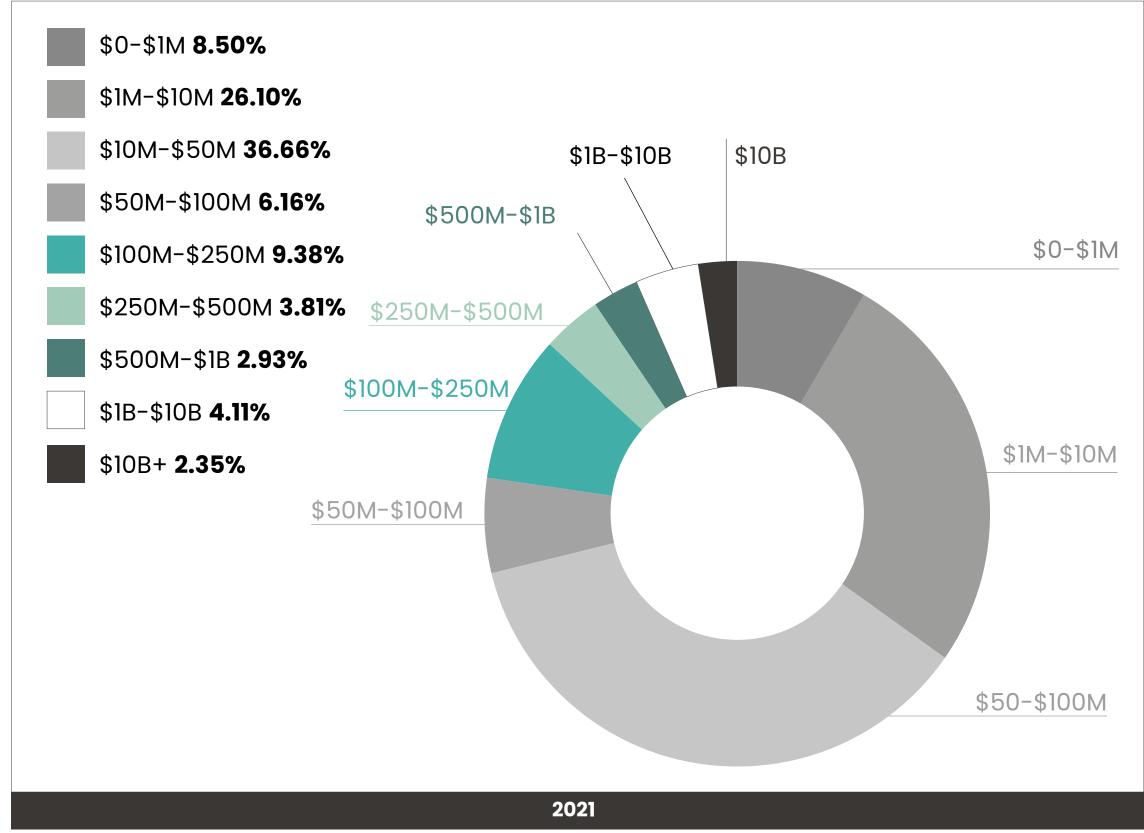
Europe view by revenues range

Companies with less than 50M in revenues represent about 70% both in 2021 and in 2022.

RANGE OF ANNUAL REVENUE

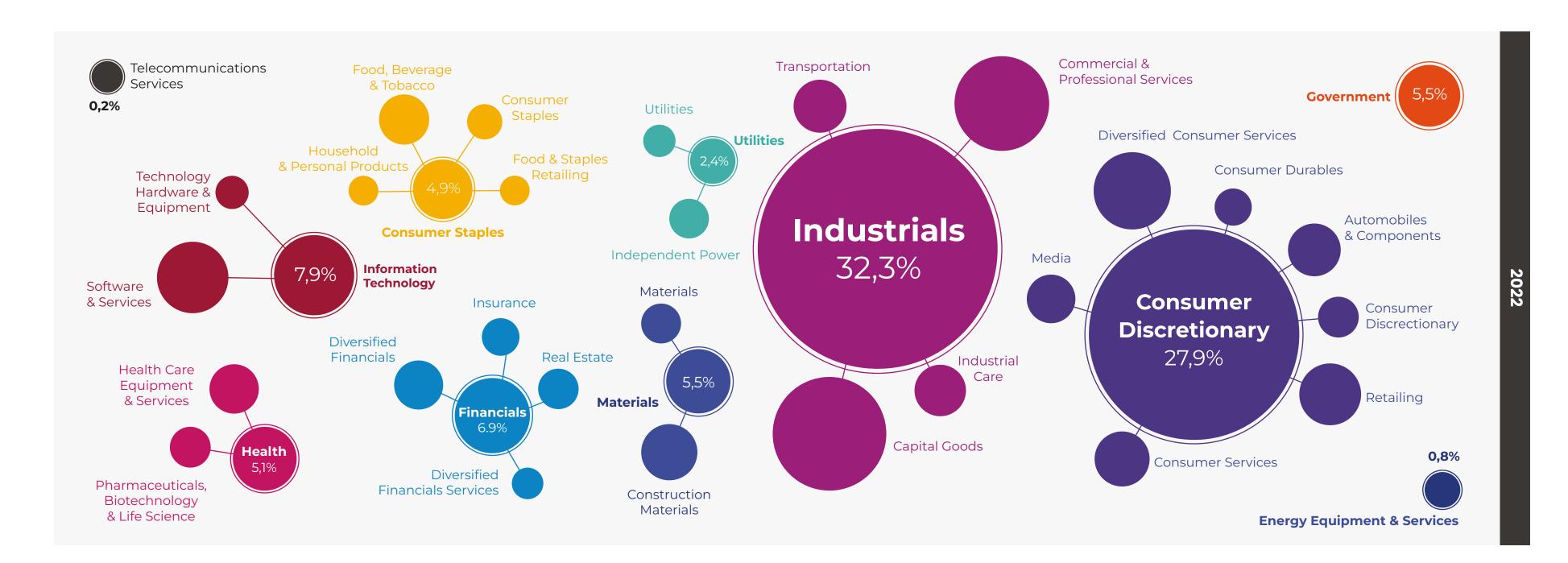


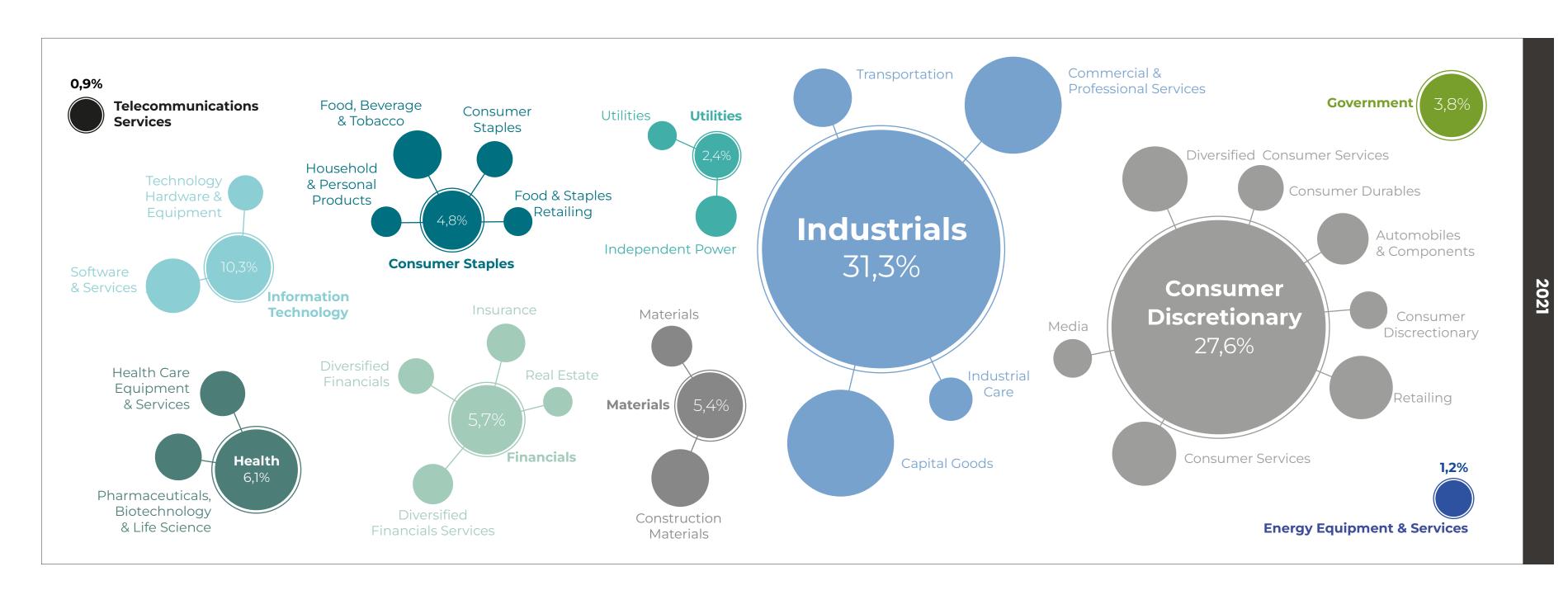
RANGE OF ANNUAL REVENUE





Europe view of the most affected sectors





ASICI

COMPARISON BETWEEN 2022 AND 2021

- Geographical areas
- Range of employees
- Range of annual revenues





Asia view by geographical areas





Russia recorded

+9% compared



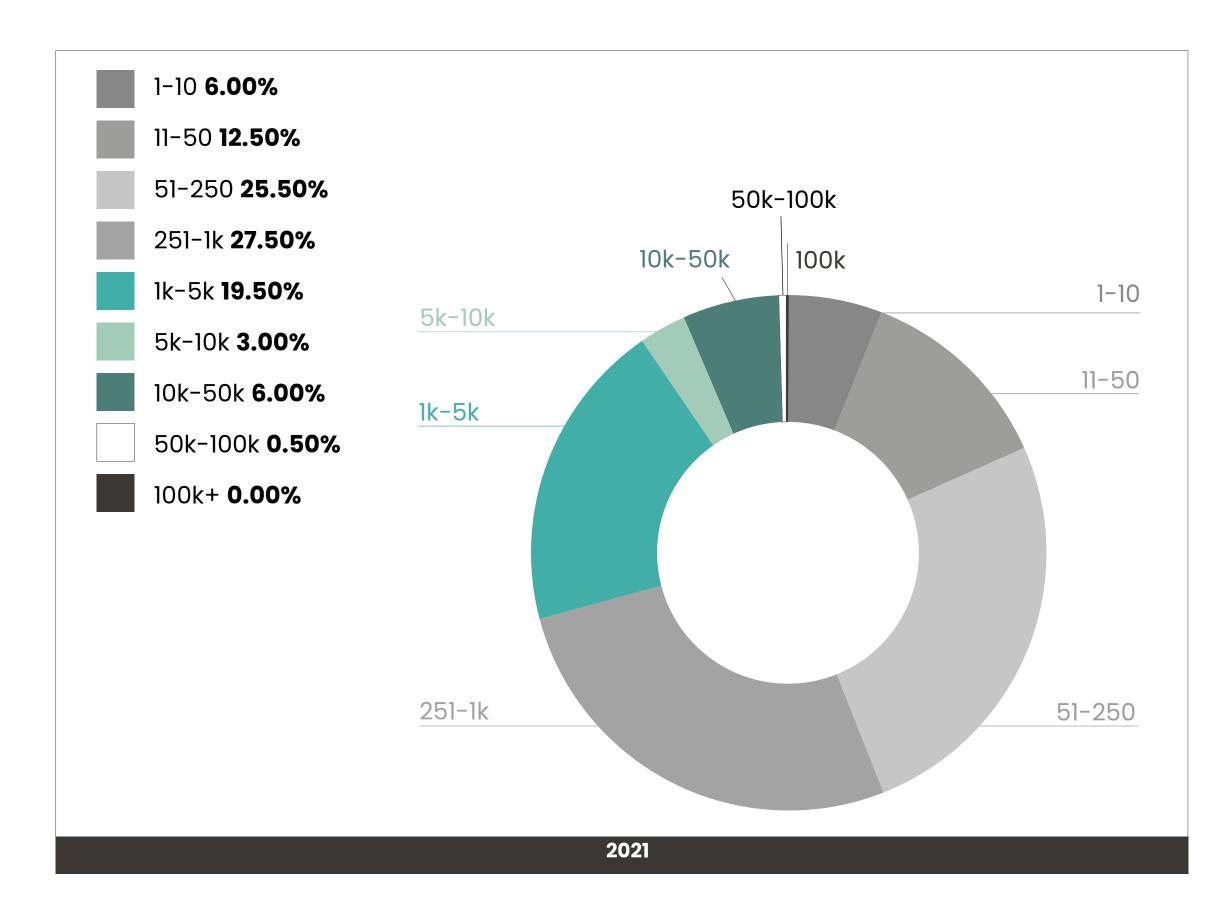
Asia view by range of employees

Attacks on companies with 50k+ employees increased +4.5% from 2021 to 2022, while companies with less than 1k employees decreased - 3%.

RANGE OF EMPLOYEES

1-10 **6.64%** 11-50 **10.16%** 51-250 **20.31%** 50k-100k 251-1k **30.86%** 10k-50k 100k 1-10 1k-5k **19.53%** 5k-10k 5k-10k **3.52%** 11-50 10k-50k **3.91%** 50k-100k **2.34%** 1k-5k 100k+ **2.73%** 51-250 251-1k 2022

RANGE OF EMPLOYEES

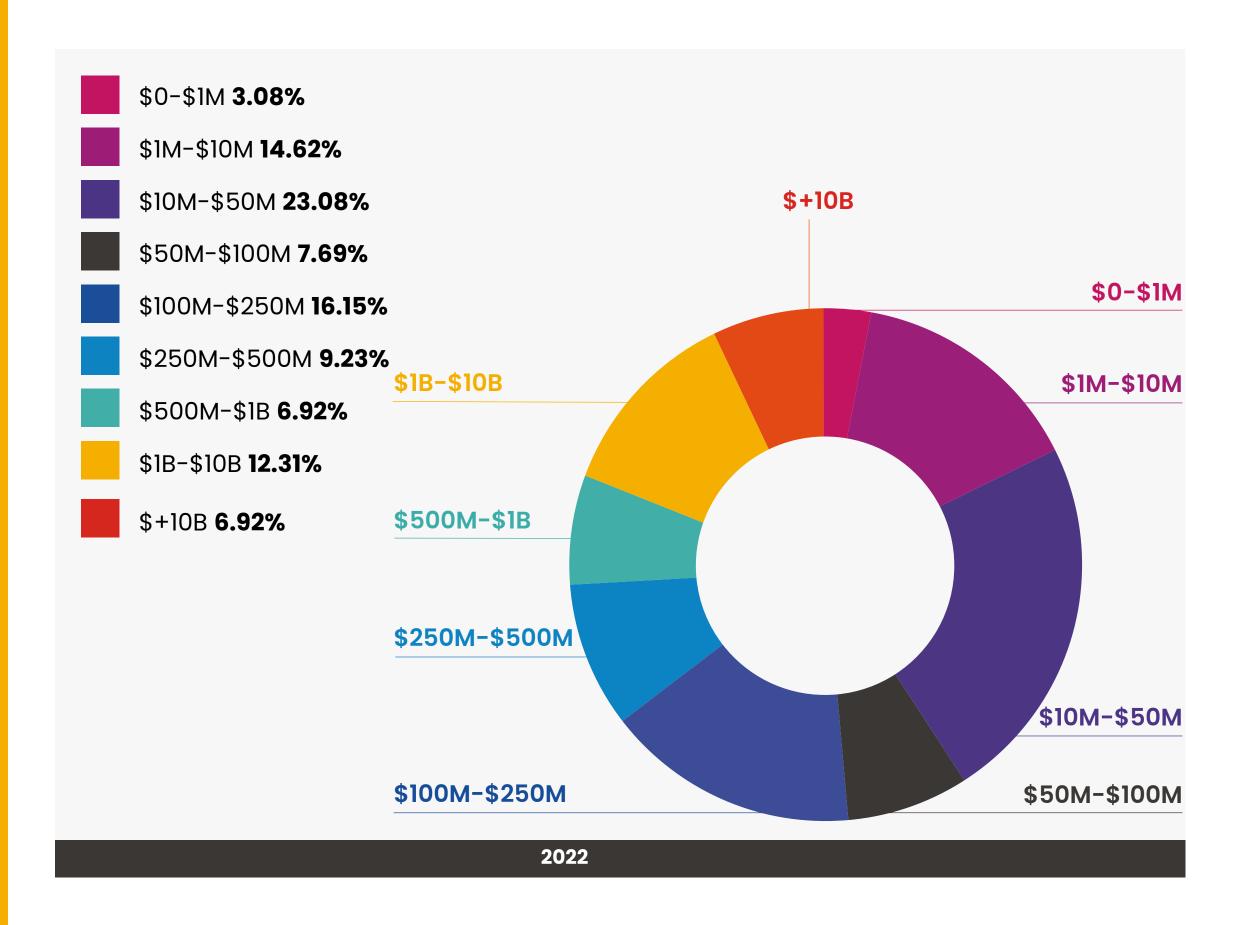




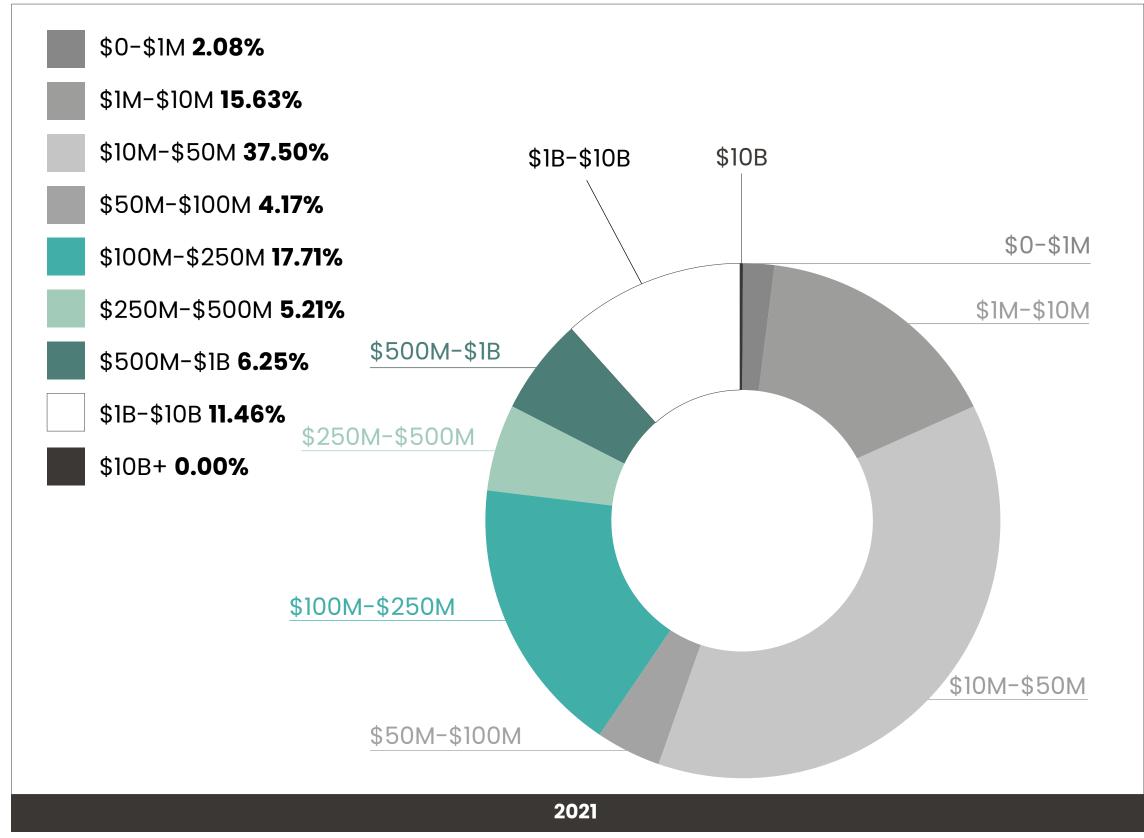
Asia view by ravenues range

From 2021 to 2022 attacks increased 7% on businesses with \$10B+ in revenue.

RANGE OF ANNUAL REVENUE

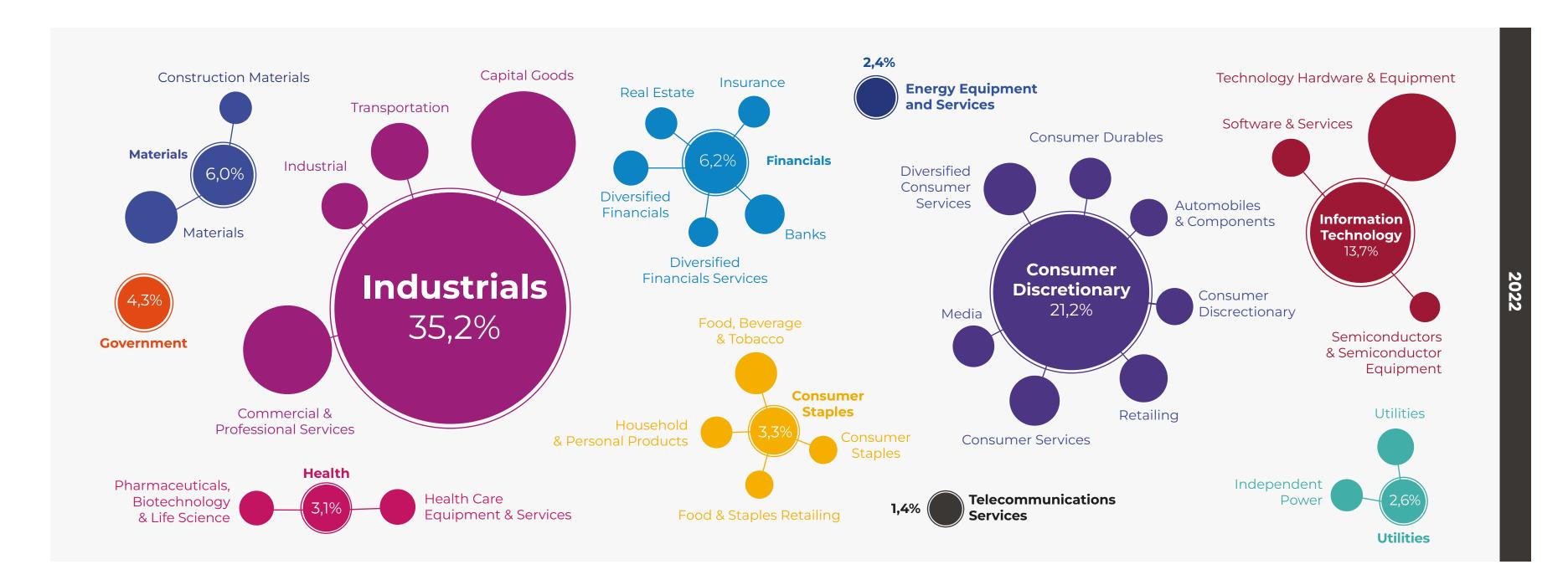


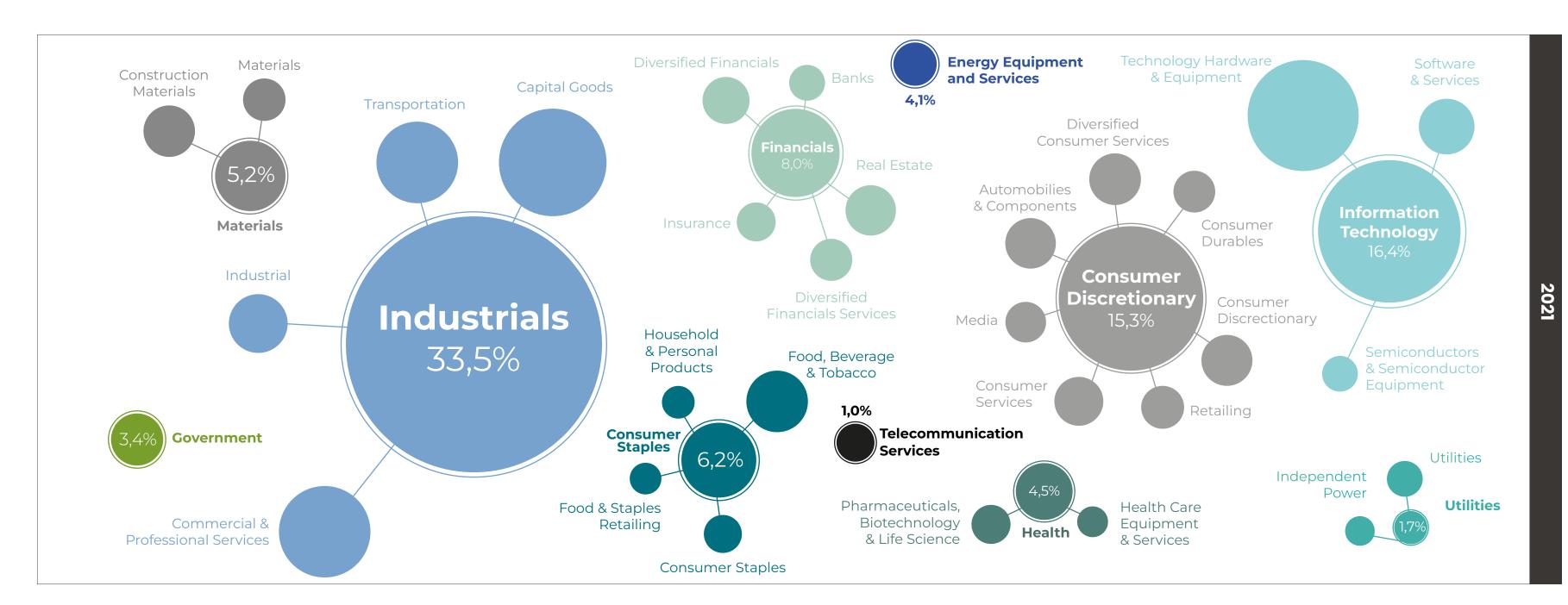
RANGE OF ANNUAL REVENUE





Asia view of the most affected sectors





Conclusion

CYBER RISK AND CYBER INSURANCE

Insurance companies are also facing challenges when it comes to assessing the cyber risks of their clients, and determining the potential impact of a ransomware attack.

Assessing this impact can be difficult, as it depends on factors such as the type of data encrypted, the systems affected and the organization's ability to recover from the attack.

Overall, the impact of ransomware on the cyber insurance industry has been significant and continues to be a major concern.

It is one of the **leading cause of cyber claims** and it's expected that this trend will continue in the future. As the threat landscape continues to evolve, it's crucial for insurance companies and organizations alike to stay informed about the latest trends and developments in the field of ransomware and take appropriate measures to protect themselves.

Ransomware attacks have become a major concern for organizations of all sizes, and they continue to increase in frequency and sophistication. These attacks have a significant impact on businesses, both financially and operationally.

The insurance industry plays an important role in helping organizations mitigate and respond to these risks, and insurance policies that cover cyber-attacks are becoming increasingly important.

However, the insurance industry must also take proactive steps to assess and mitigate cyber risk of their clients. This includes offering solutions such as threat intelligence, incident response planning, cyber security assessments and managed services to help organizations identify and mitigate potential vulnerabilities.

By bundling these **solutions with insurance policies**, the insurance industry can provide a comprehensive approach to cyber risk management, helping to protect organizations from the potentially devastating consequences of a ransomware attack.

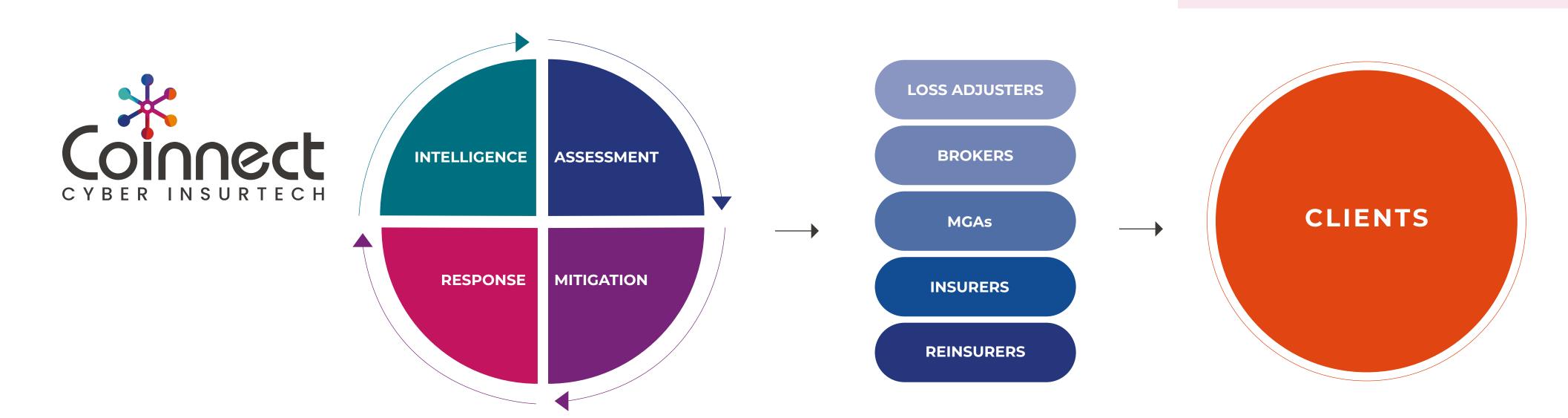
It is crucial for the insurance industry to keep pace with the evolving threat landscape in order to provide effective and comprehensive coverage for their clients.

About Coinnect



We are a **Cyber Insurtech Company** providing innovative solutions for **Cyber Risk Assessment**, **Mitigation and Response**

100% built for Insurers and to make Cyber Insurance a more profitable business



CLOUD PLATFORMS · APIS · TECHNICAL SERVICES

Coinnect Platform



Our Cyber Insurtech Platform provides unique capabilities

INTELLIGENCE

- Dark Web Ransomware Data
- Open and Closed Sources
- **Data** Breaches
- Exfiltrated Credentials
- Infected Endpoints
- Exposed Assets
- Vulnerabilities
- Lookalike Domains



ASSESSMENT

- **Proprietary** Methodology and Algorithms
- Based on technical evidences
- Ransomware Risk evaluation using exclusive DB
- Risk Indexes and Data in **near real-time**



MITIGATION

- Built to be bundled with **Insurance Policies**
- Proactive risk monitoring and mitigation
- Easy activation for clients
- Engineered for SMBs and SMEs



RESPONSE

- Incident Response for Cyber Claims
- **24x7** Fast response using custom and best of breed integrated tools
- XDR, Compromise Assessment, Data Recovery, Ransomware Support, Forensic





WEB ACCESS AND / OR APIS + SUPPORT AND SERVICES

Why Coinnect



Built to support main stages of Cyber Insurance life cycle



