Clusit Associazione Italiana per la Sicurezza Informatica

ASTREA

SECURITY SUMMIT

Security Summit

Streaming Edition Autumn

7 novembre 2024

Manufacturing Security Summit

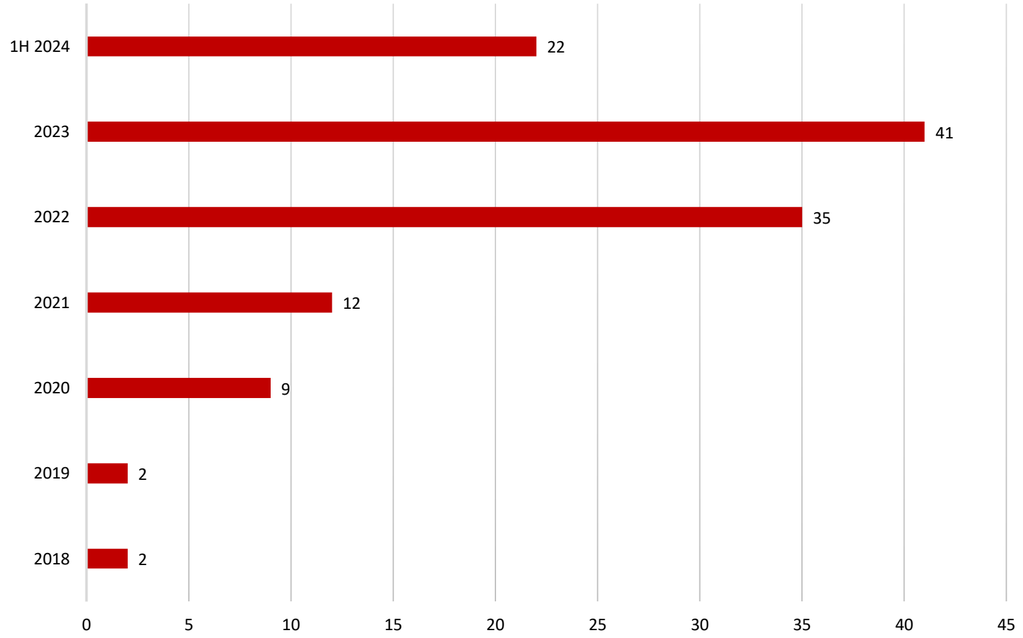
Cybersecurity e impatti normativi nel settore Manifatturiero, dalle strategie europee alle prospettive italiane.

Modera: **Paola Girdinio**

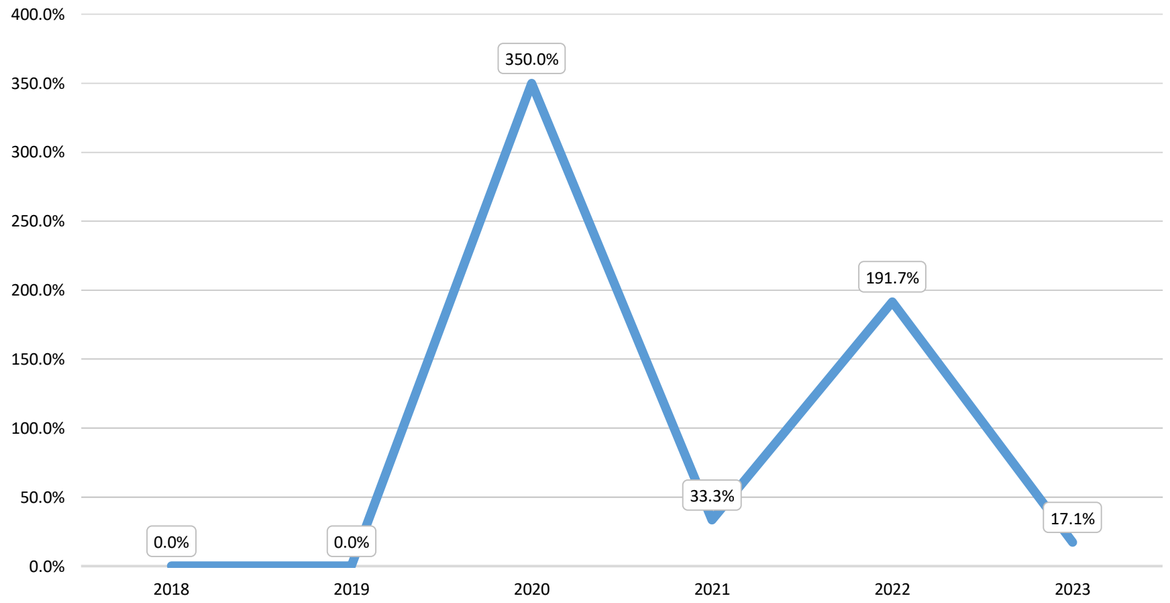
Partecipano:
Giulio Iucci, Vicepresidente ANIE Federazione
Lorenzo Ivaldi, UNIGE
Andrea Monteleone, Presidente di ANIE Sicurezza
Ivan Monti, Ansaldo Energia
Alessio Pennasilico, CS Clusit
Valeria Prosser, E-phors S.p.a
Massimo Tripodi, Veracode

Dati dal Rapporto Clusit sulla sicurezza ICT in Italia (Ed. ottobre 2024, con i dati da 1.1 al 30.6.2024)

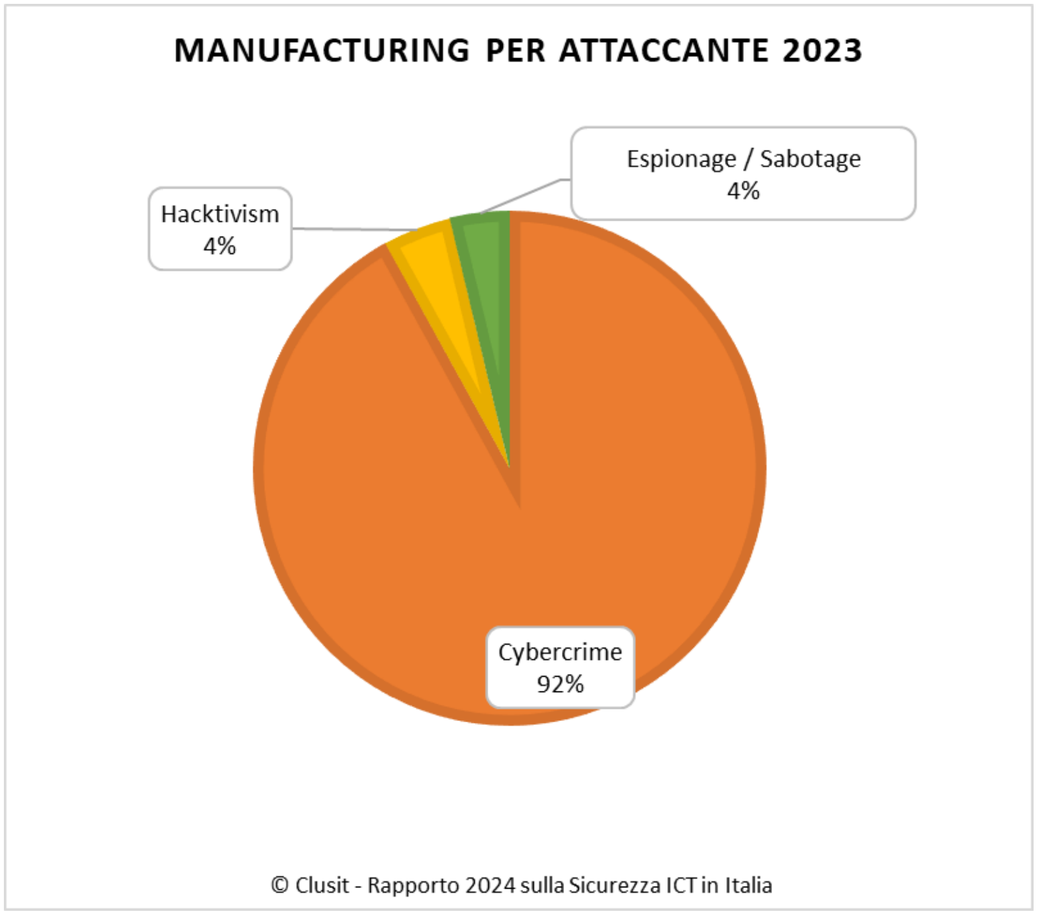
MANUFACTURING ITALIA PER ANNO

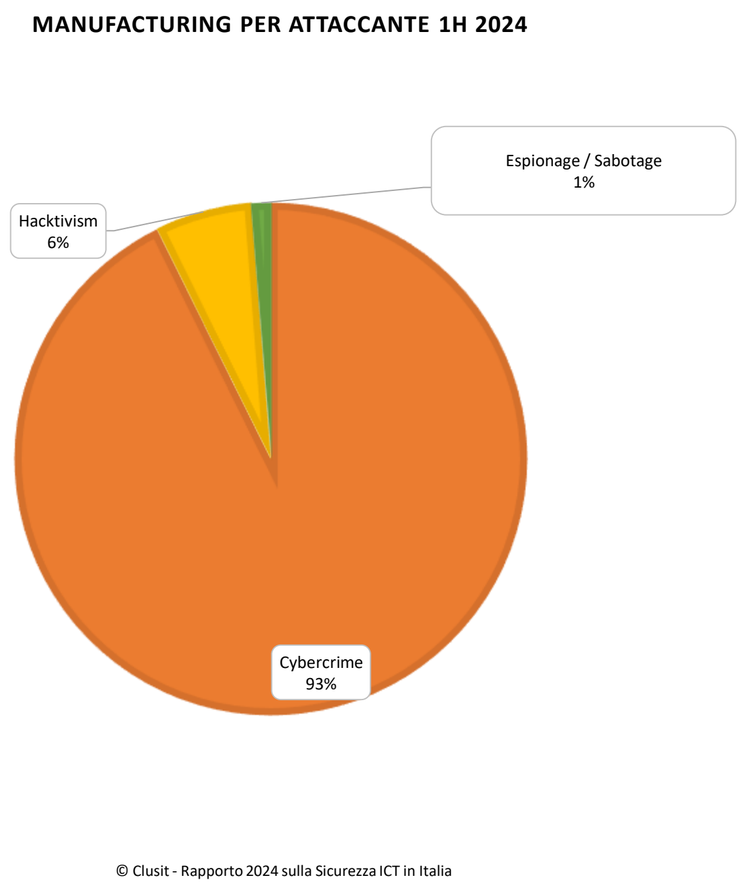


MANUFACTURING ITALIA CRESCITA % ANNO SU ANNO

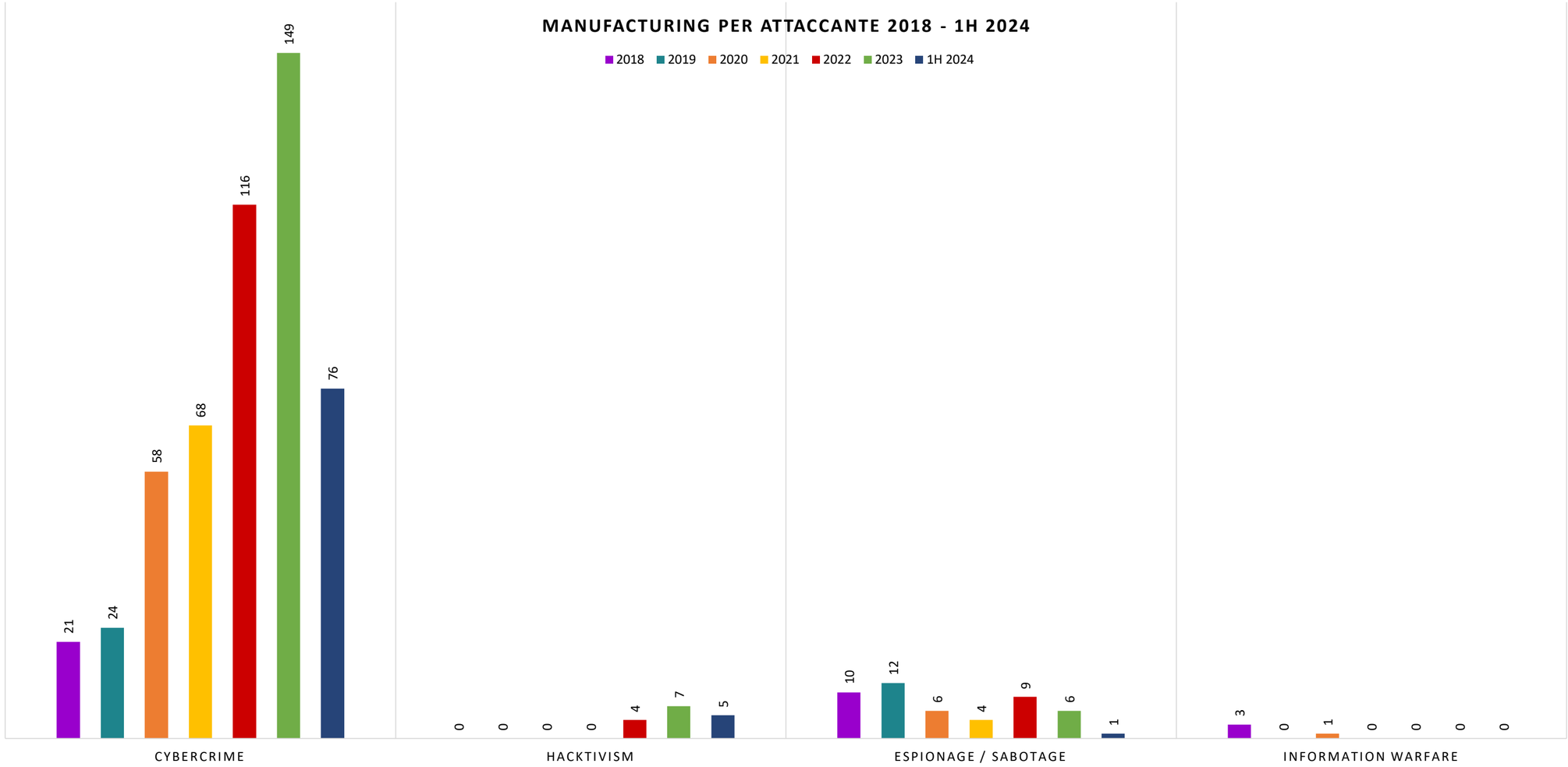


- Crescita con picchi nel 2020 (350%) e 2022 (191%)
- H1 2024 trend sul 17% semestrale (35% annuo proiettato)

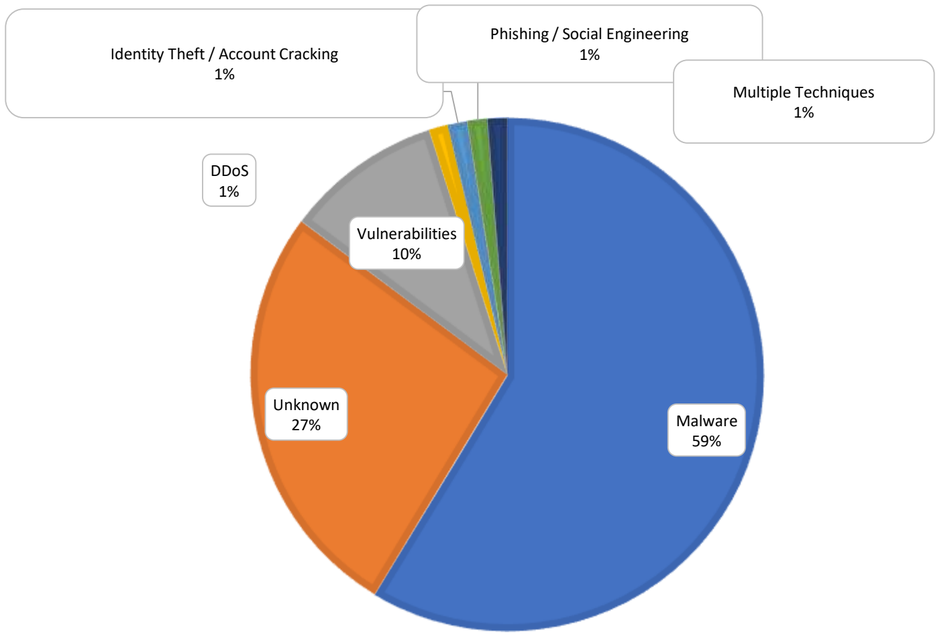




La minaccia proviene quasi totalmente dal Cybercrime



MANUFACTURING PER TECNICA 2023



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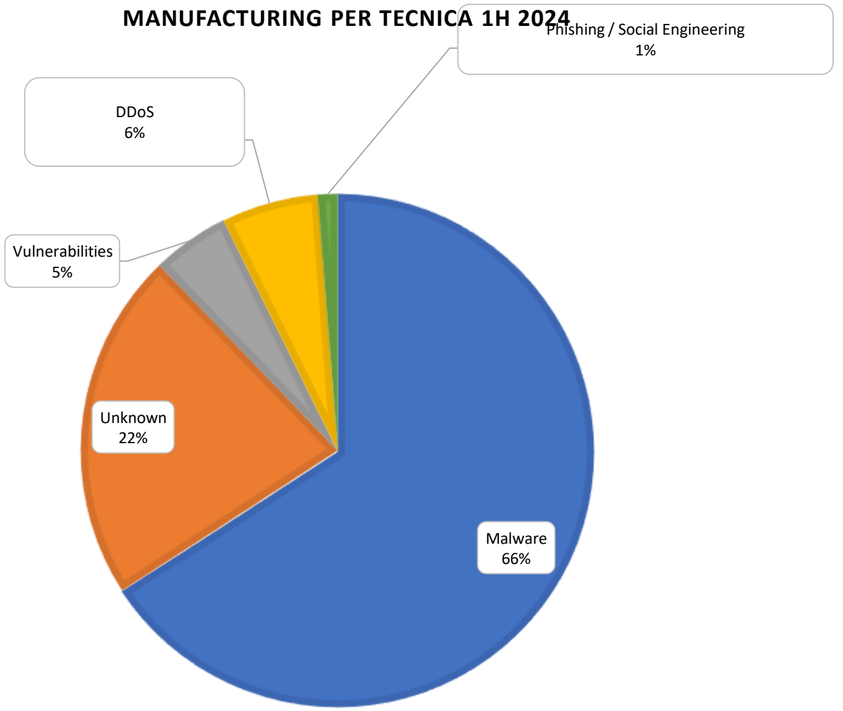
MANUFACTURING PER TECNICA 1H 2024



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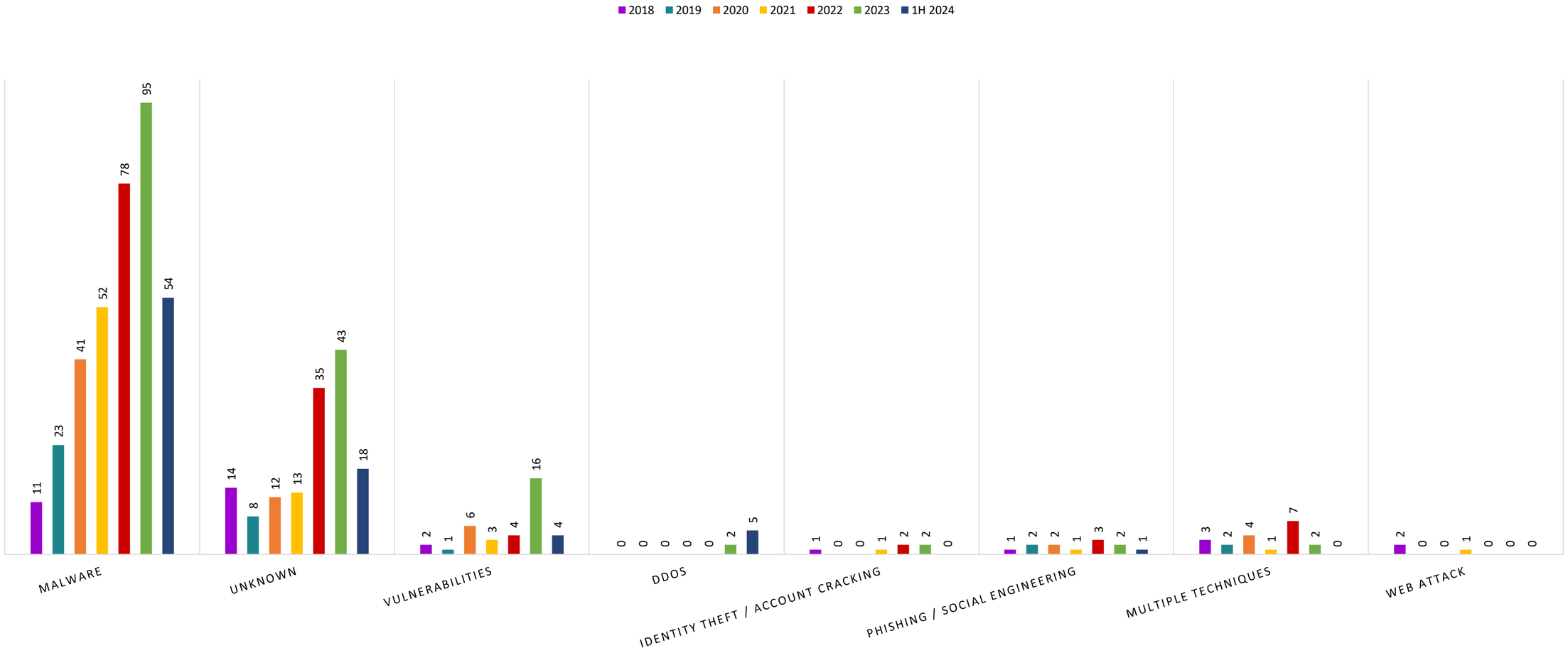
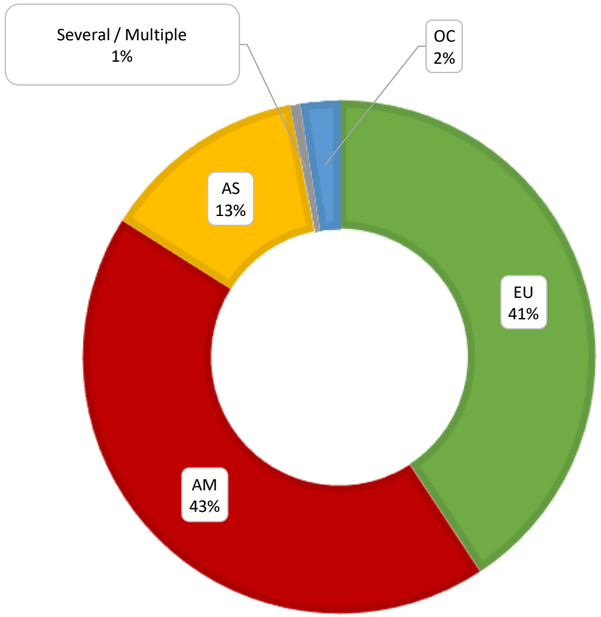
Tecnica principalmente utilizzata è Malware/Ransomware,
poi «Data Breach» (Unknown), a seguire Ddos e Vulnerabilità (0-Days)

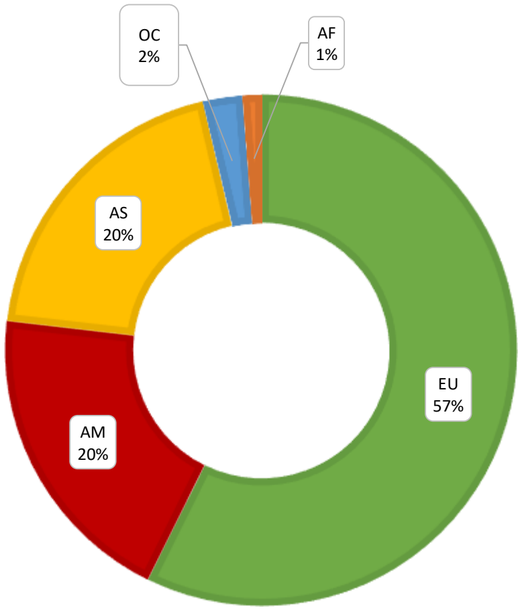
MANUFACTURING PER TECNICA DI ATTACCO 2018 - 1H 2024



MANUFACTURING PER GEOGRAFIA 2023

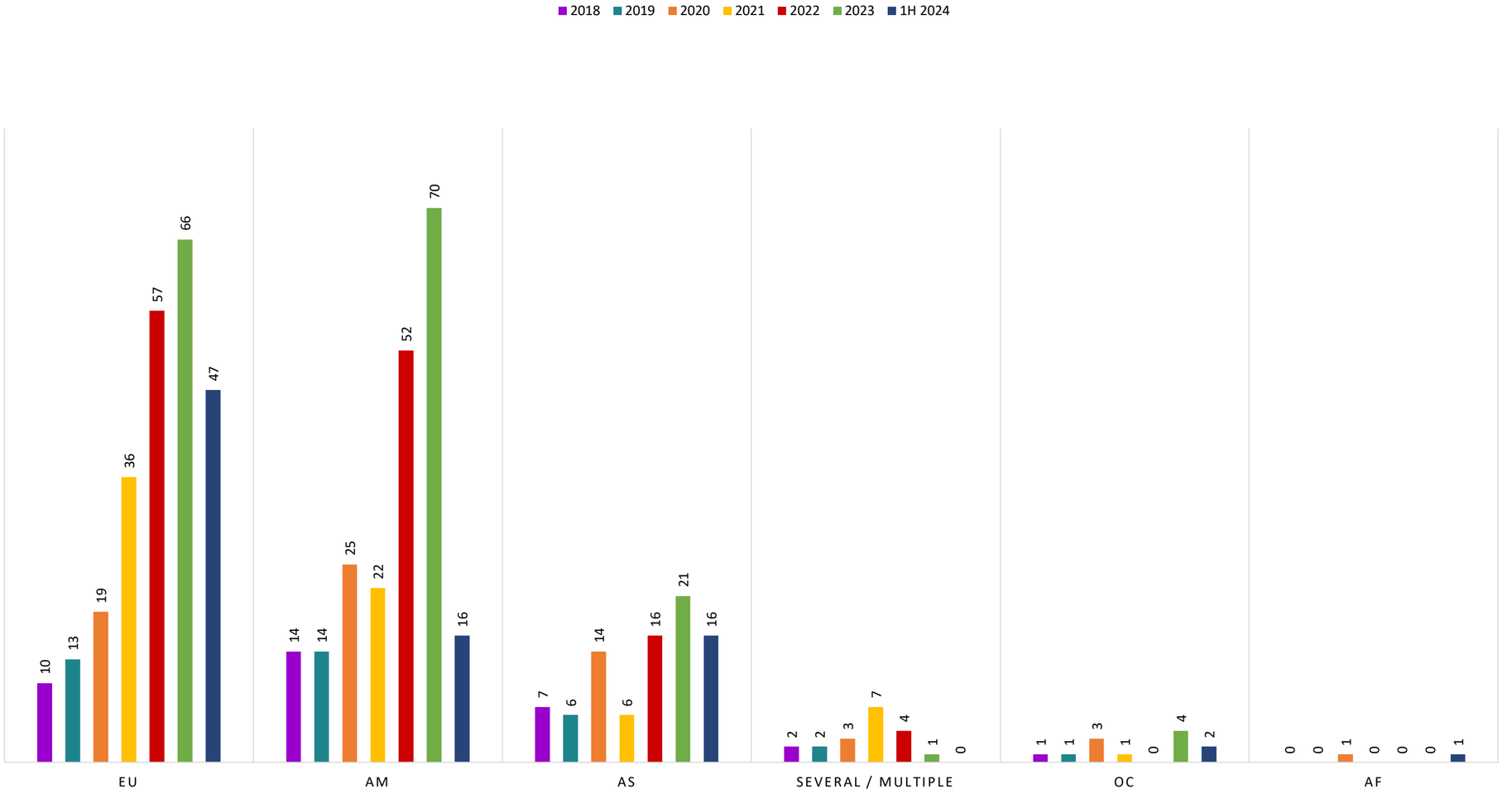


MANUFACTURING PER GEOGRAFIA 1H 2024

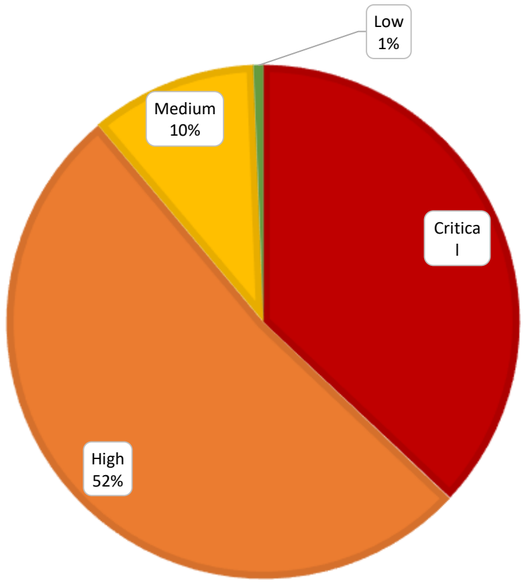


Target Europei i più colpiti (57% H1 2024), poi Americhe ed Asia parimerito 20% resto è ROW (dati veritieri per il ROW?)

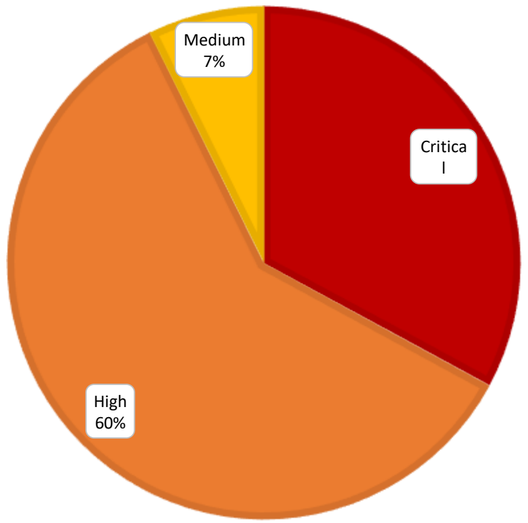
MANUFACTURING PER GEOGRAFIA DELLE VITTIME 2018 - 1H 2024



MANUFACTURING PER SEVERITY 2023

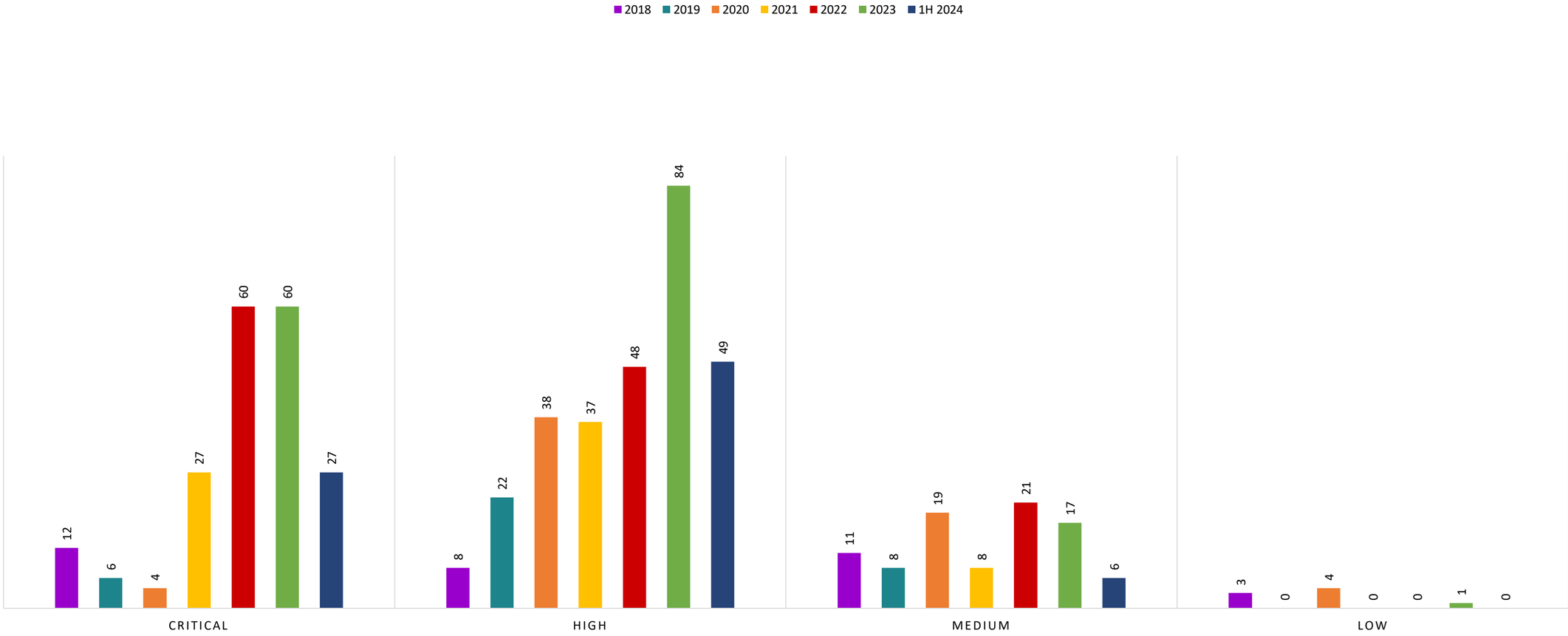


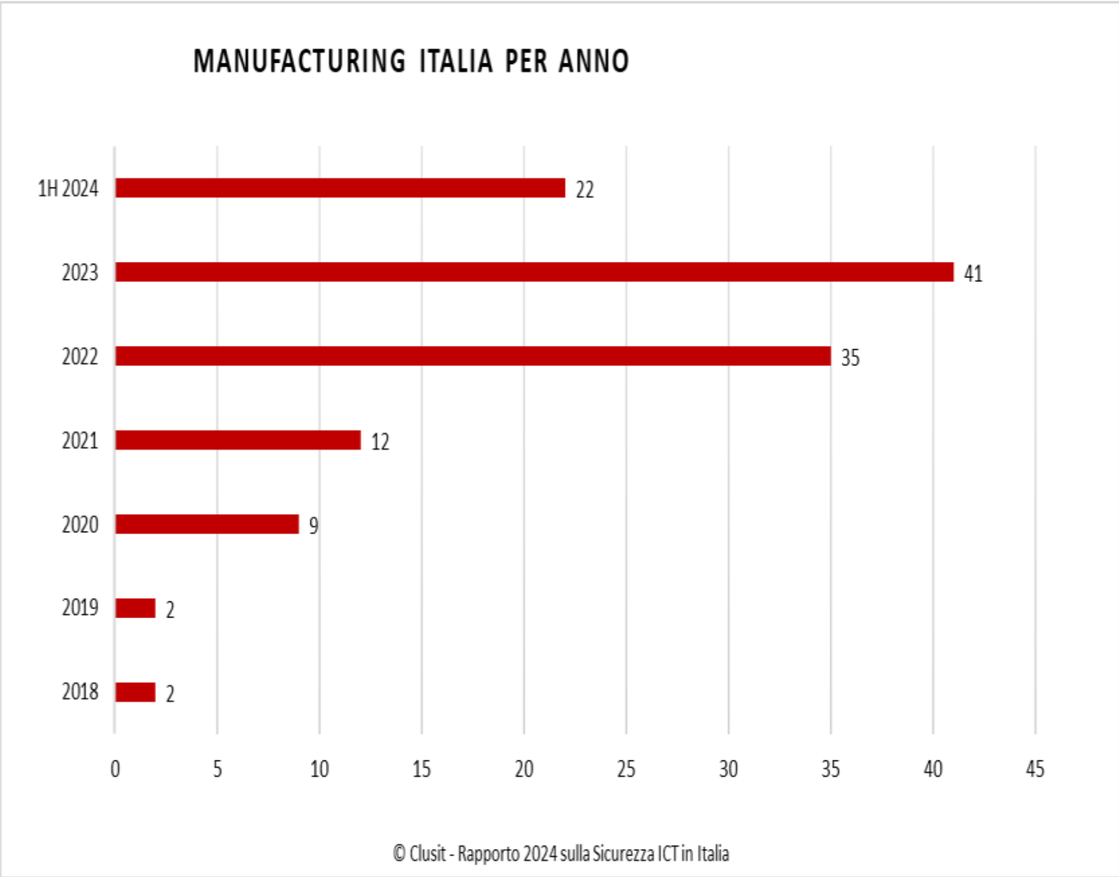
MANUFACTURING PER SEVERITY 1H 2024



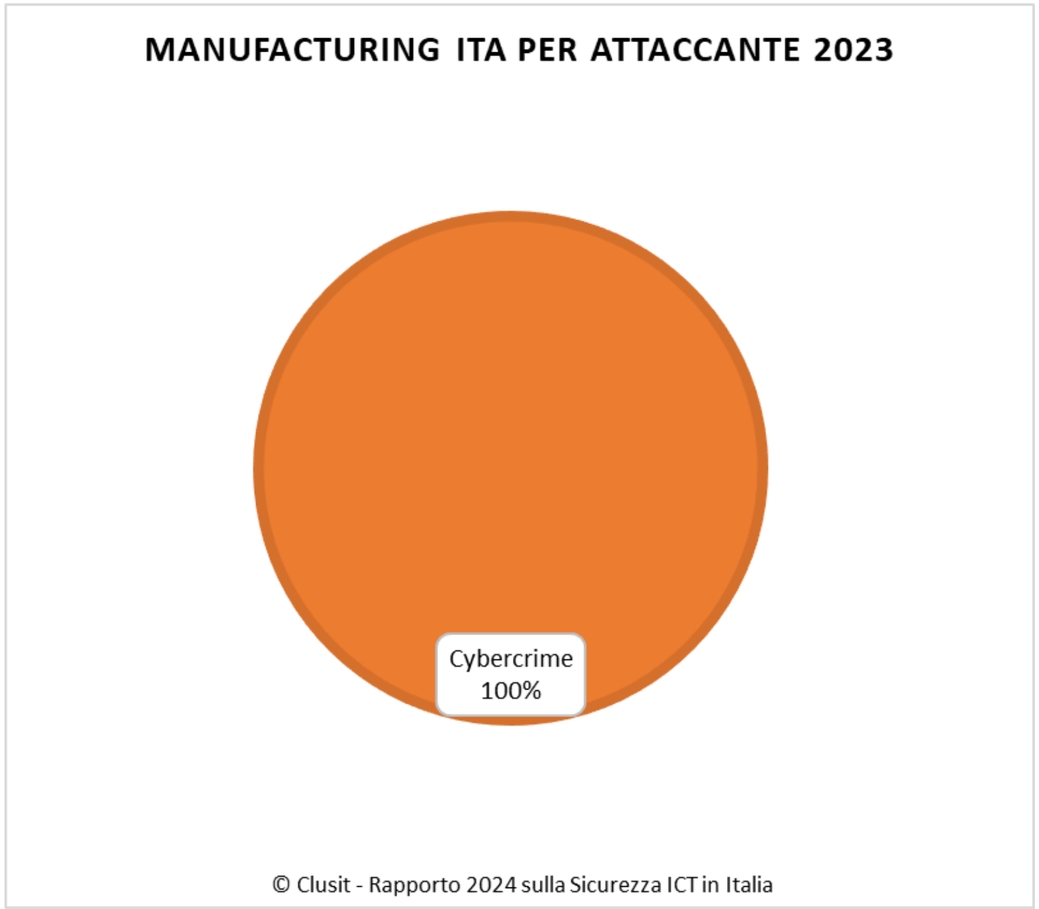
Attacchi con impatti critici al 37% nel 2023, scesi al 33% nel 2024

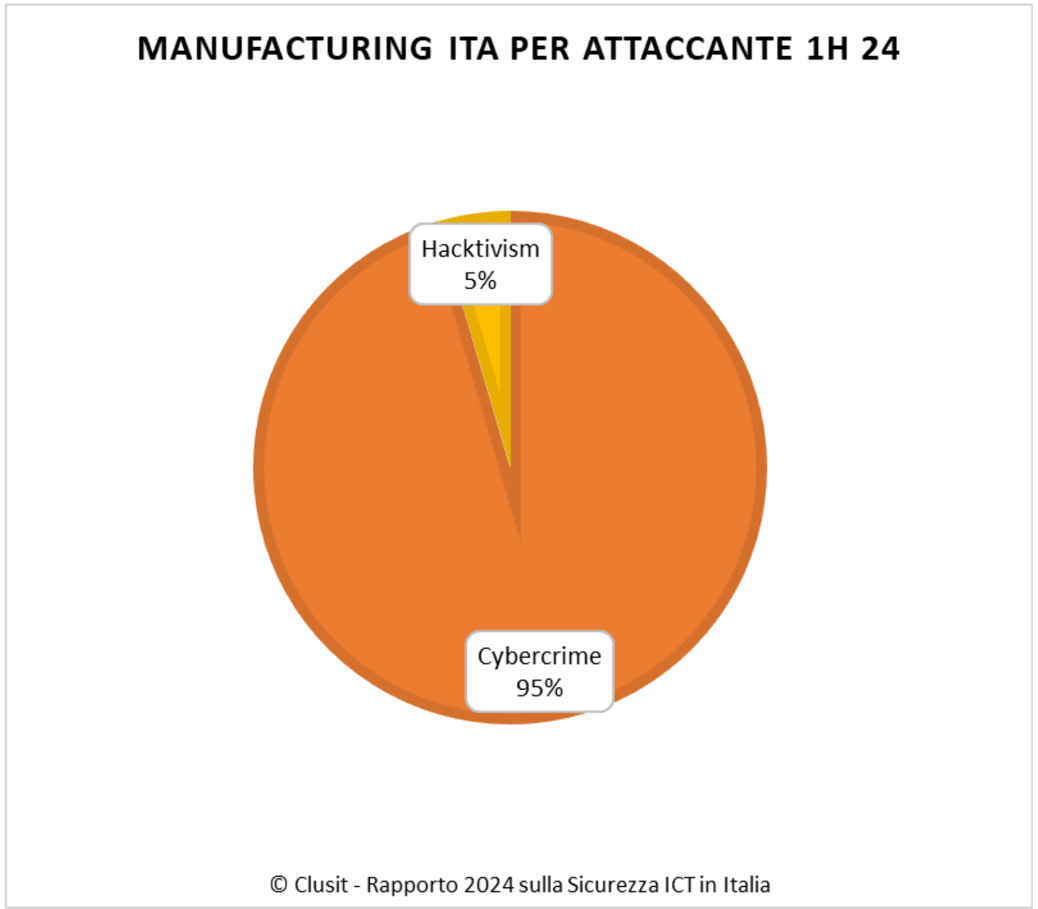
MANUFACTURING PER SEVERITY 2018 - 1H 2024



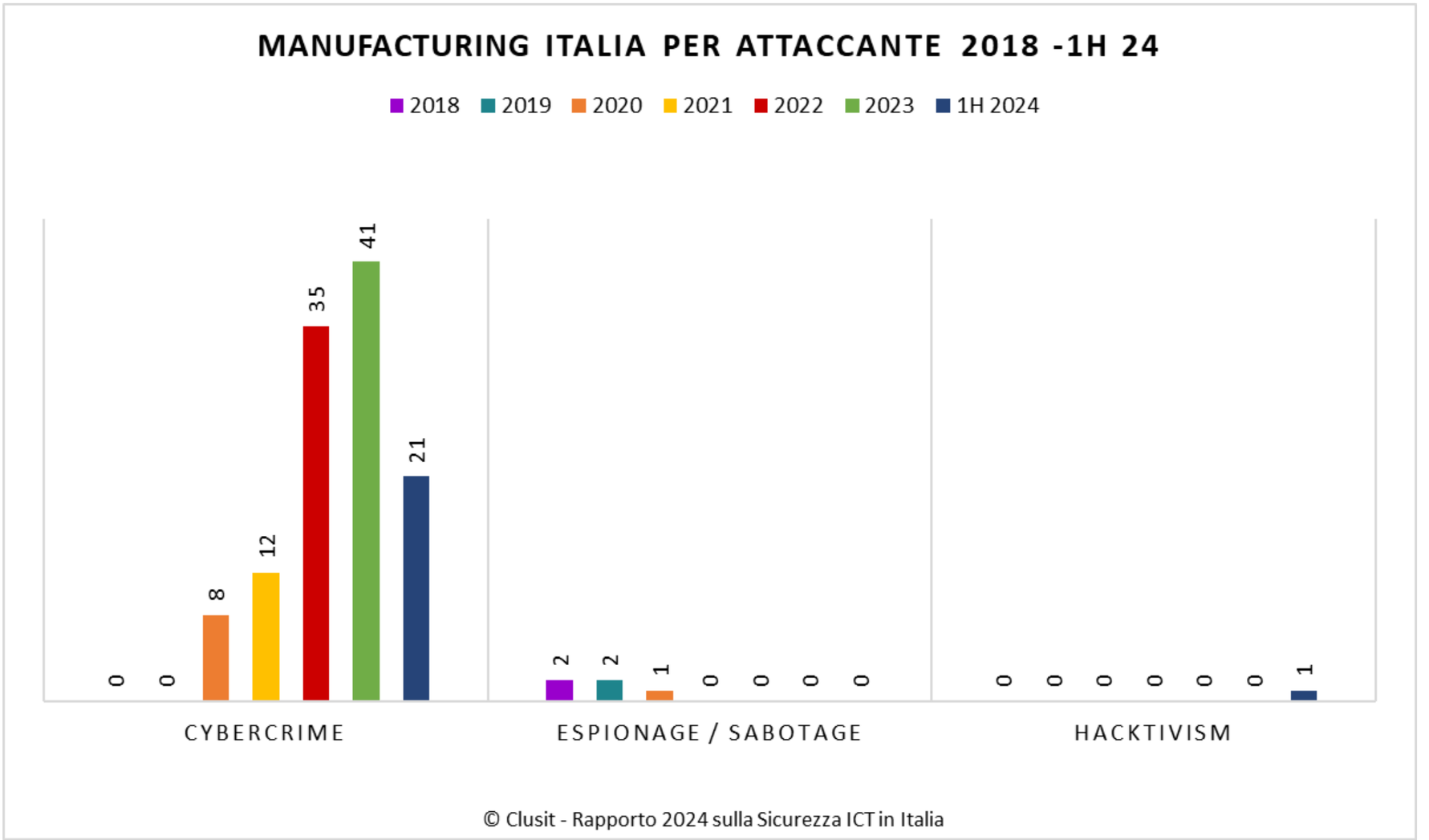


- Irrilevanti in passato, crescita con picchi nel 2020 (+350%) e 2022 (+191%)
- H1 2024 in linea con 2023 con una lieve tendenza al rialzo (17%).





Senza commenti: 100% causato dal Cybercrime nel 2023, nel 2024 95%


MANUFACTURING ITALIA PER ATTACCANTE 2018 -1H 24
2018
2019
2020
2021
2022
2023
1H 2024
0
0
8
12
35
41
21
2
2
1
0
0
0
0
0
0
0
0
0
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0
0
1
CYBERCRIME
ESPIONAGE / SABOTAGE
HACKTIVISM
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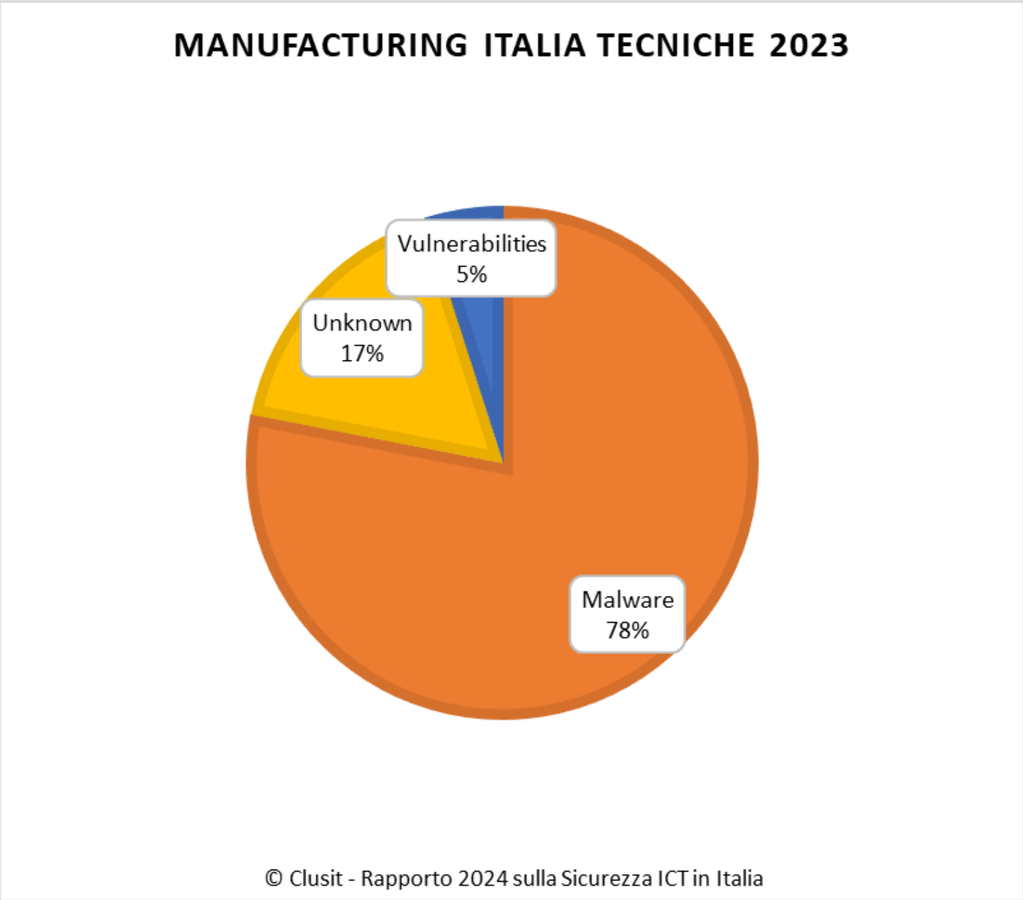
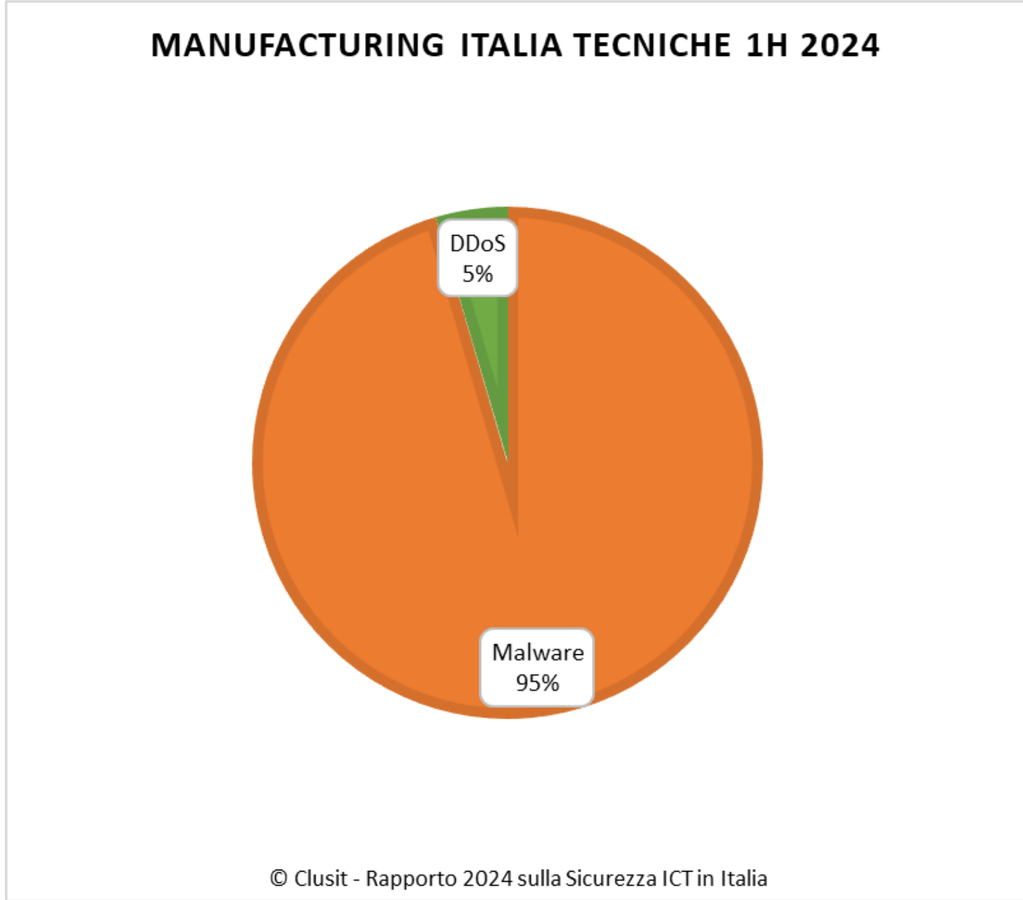
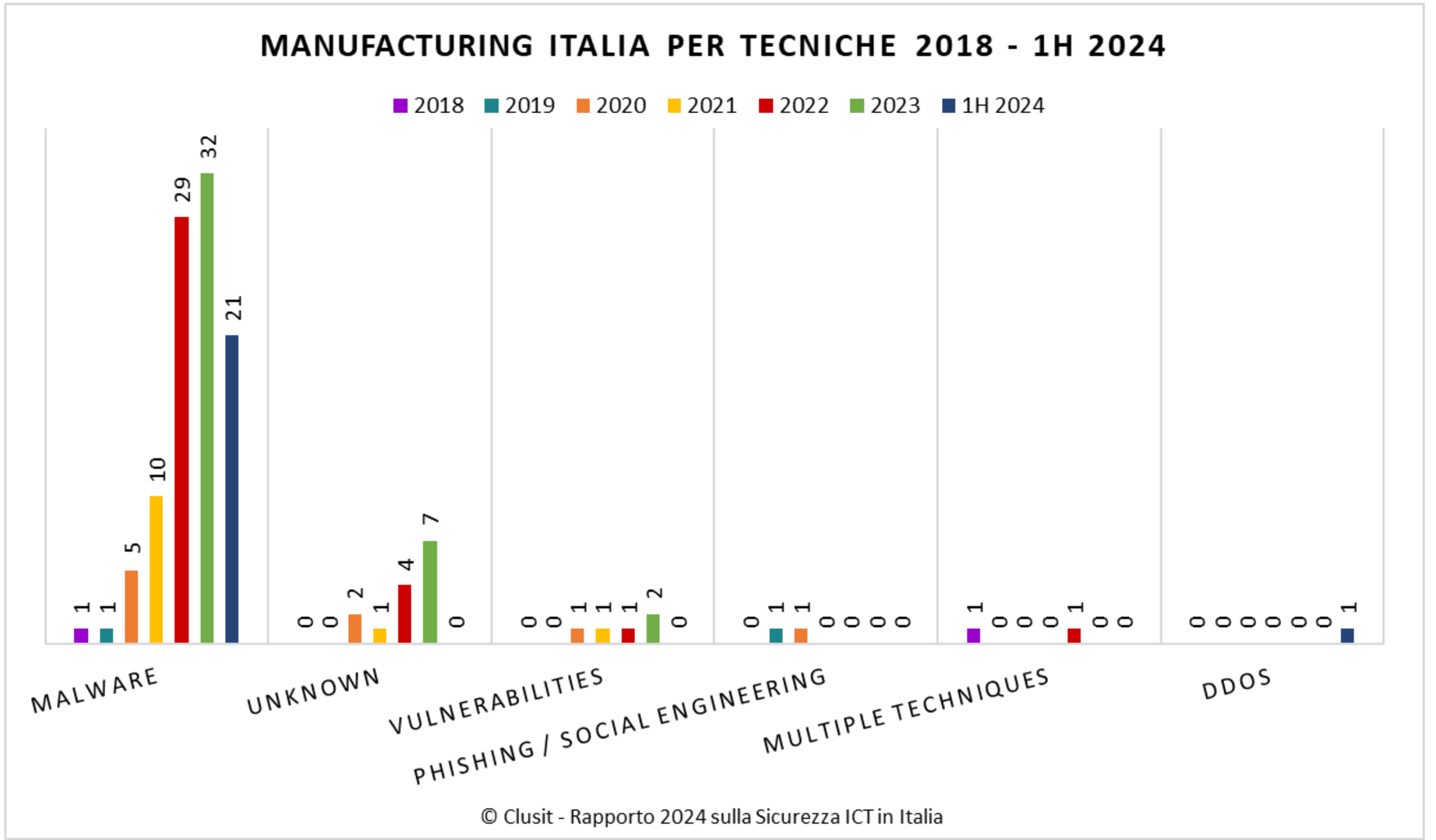




Come già visto a livello globale, Tecnica principalmente utilizzata (95%) è Malware/Ransomware, poi Ddos in minima parte.


MANUFACTURING ITALIA PER TECNICHE 2018 - 1H 2024
2018
2019
2020
2021
2022
2023
1H 2024
1
1
5
10
29
32
21
0
0
2
1
4
7
0
0
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1
1
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0
0
1
1
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0
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1
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1
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0
0
0
0
0
1
MALWARE
UNKNOWN
VULNERABILITIES
PHISHING / SOCIAL ENGINEERING
MULTIPLE TECHNIQUES
DDOS
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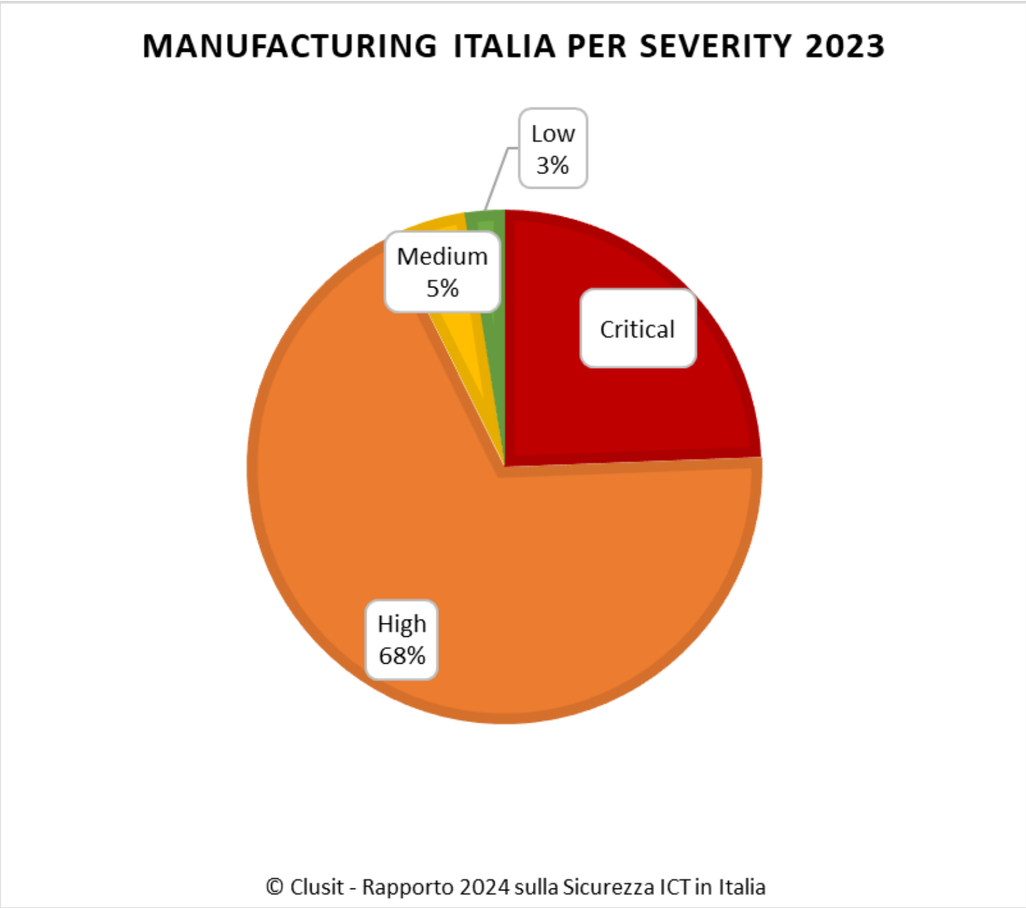
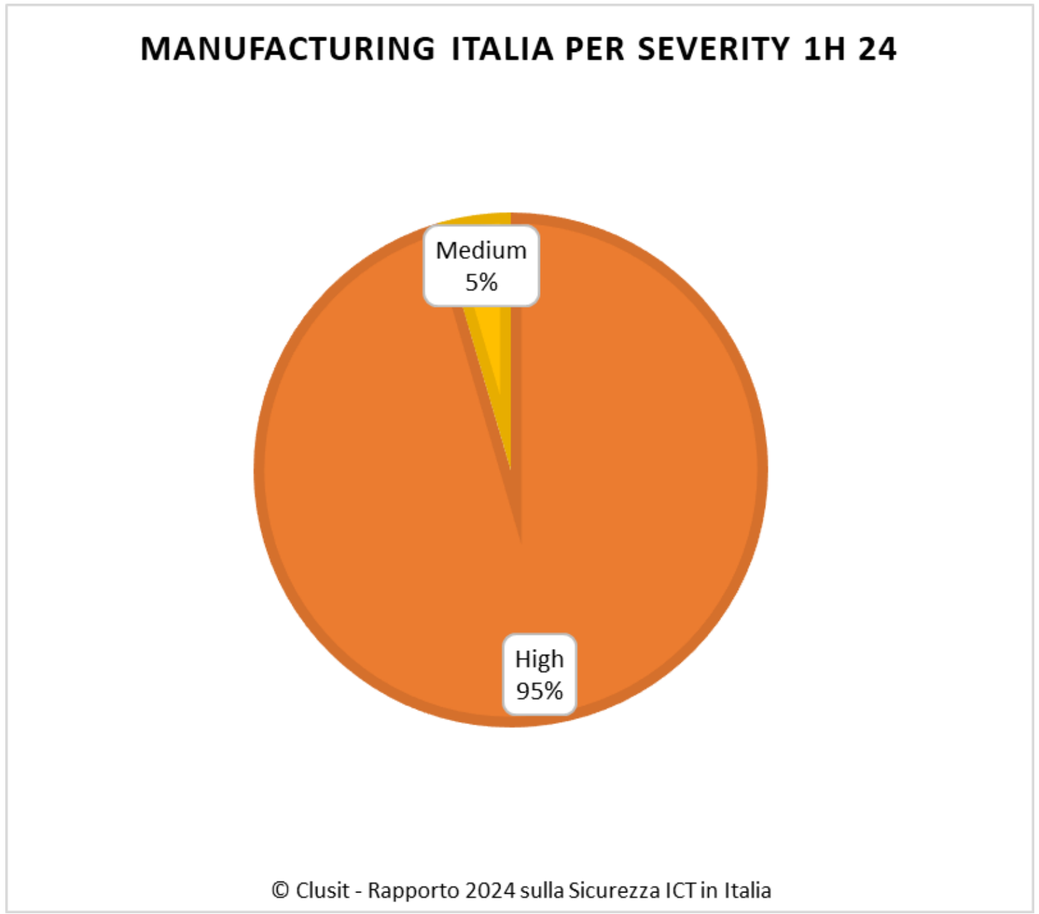
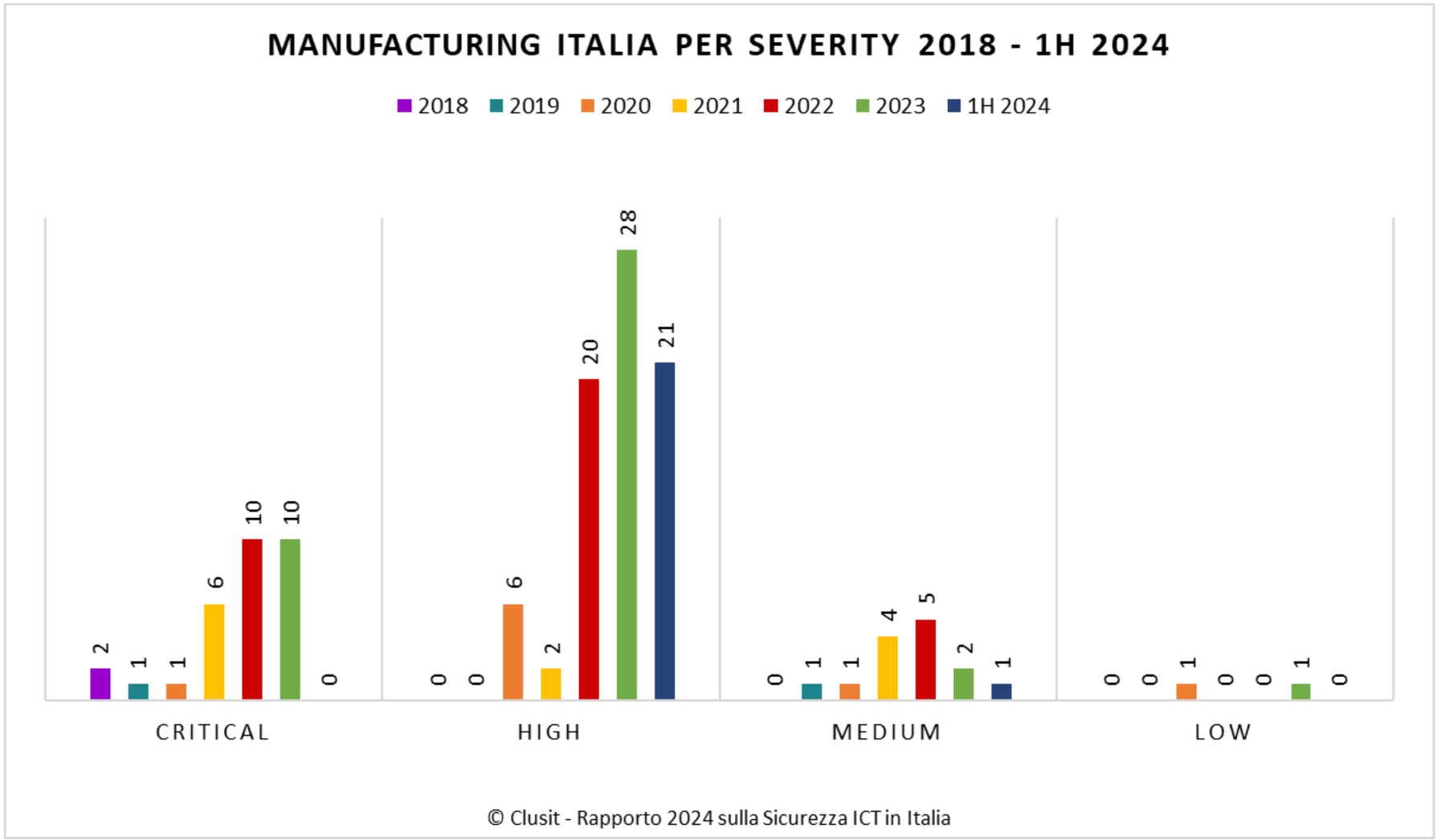




Anche da noi, attacchi con impatti critici vicini 1/4 nel 2022 e nessun critico nel 1H 2024 (speriamo di arrivare a fine anno).


MANUFACTURING ITALIA PER SEVERITY 2018 - 1H 2024
2018
2019
2020
2021
2022
2023
1H 2024
2
1
1
6
10
10
0
0
0
6
2
20
28
21
0
1
1
4
5
2
1
0
0
1
0
0
1
0
CRITICAL
HIGH
MEDIUM
LOW
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Ed alcuni dati dal Report Dragos ICS/OT CyberSecurity Year in Review 2023

(approfondimento Ransomware)

A proposito di Ransomware con impatto ICS/OT

OT CYBERSECURITY • YEAR IN REVIEW 2023

DRAGOS
SAFEGUARDING CIVILIZATION

Key Ransomware Findings

↑ **50%**

Ransomware attacks against industrial organizations **increased 50 percent** over last year.

28%

Dragos tracked **28% more ransomware groups** impacting ICS/OT in 2023.

70%

of all ransomware attacks targeted **638 manufacturing entities** in **33 unique manufacturing subsectors**.

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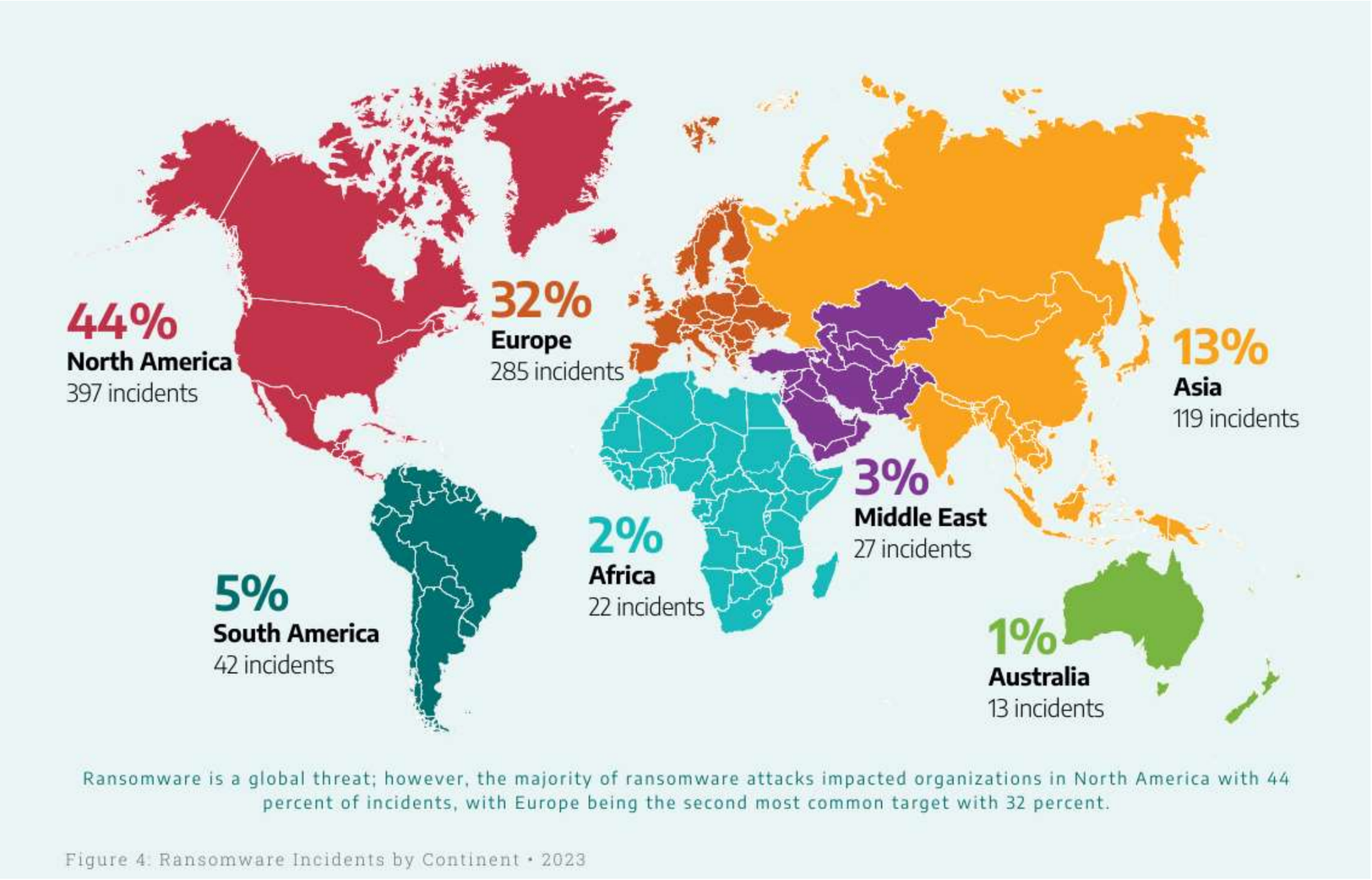
Ransomware con impatto ICS/OT per area geografica



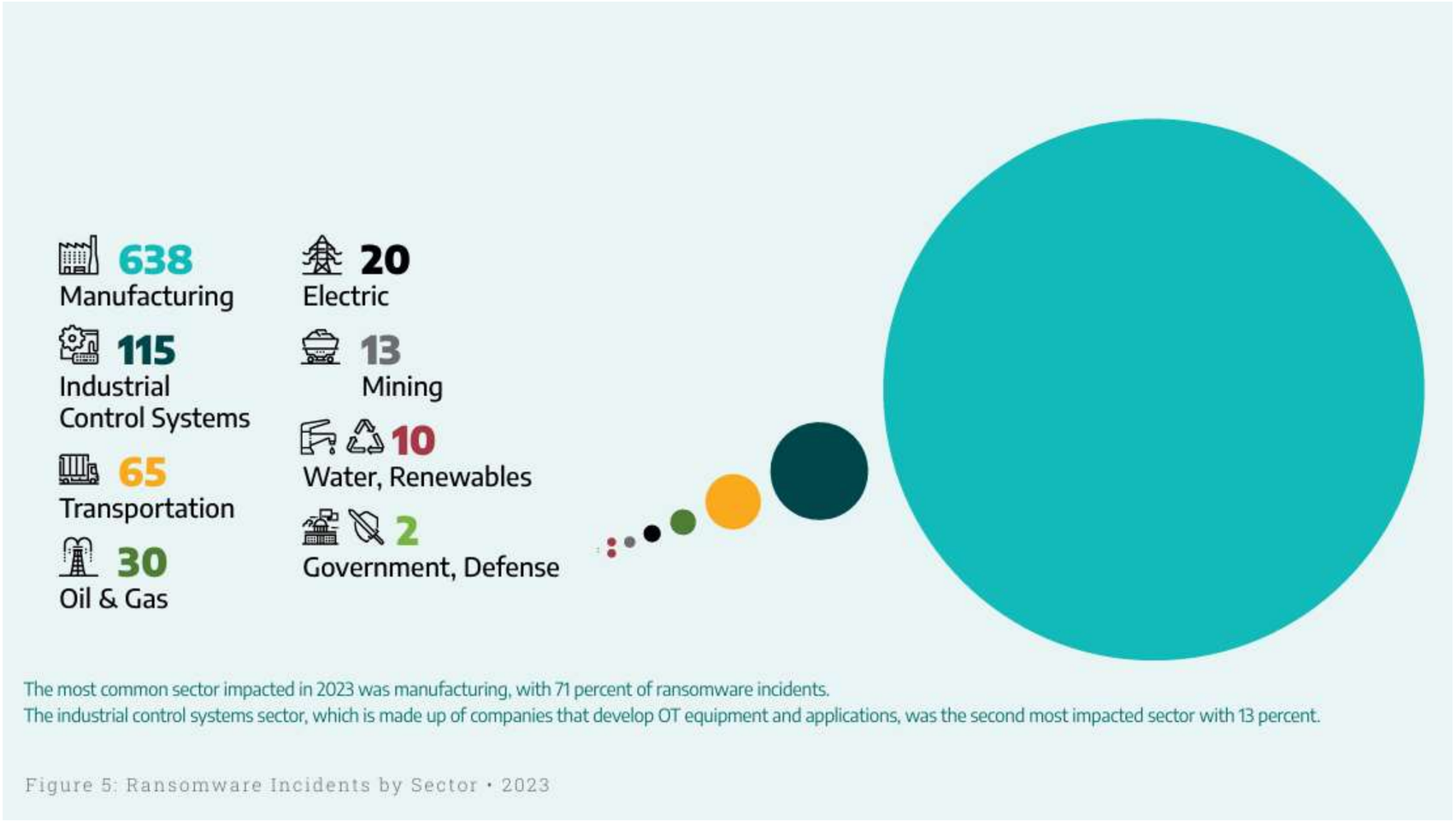
Ransomware is a global threat; however, the majority of ransomware attacks impacted organizations in North America with 44 percent of incidents, with Europe being the second most common target with 32 percent.

Figure 4: Ransomware Incidents by Continent • 2023

44+5=49% Americhe
32% Europa
(stimiamo 3-4% Italia)

13+3+2+1=19%
MEA/Asia/Oceania

Ransomware con impatto ICS/OT per settore



71% attacchi con impatto MFG in 104 Settori e a seguire i produttori di OT con il 13%

La nota più dolente e’ la segmentazione

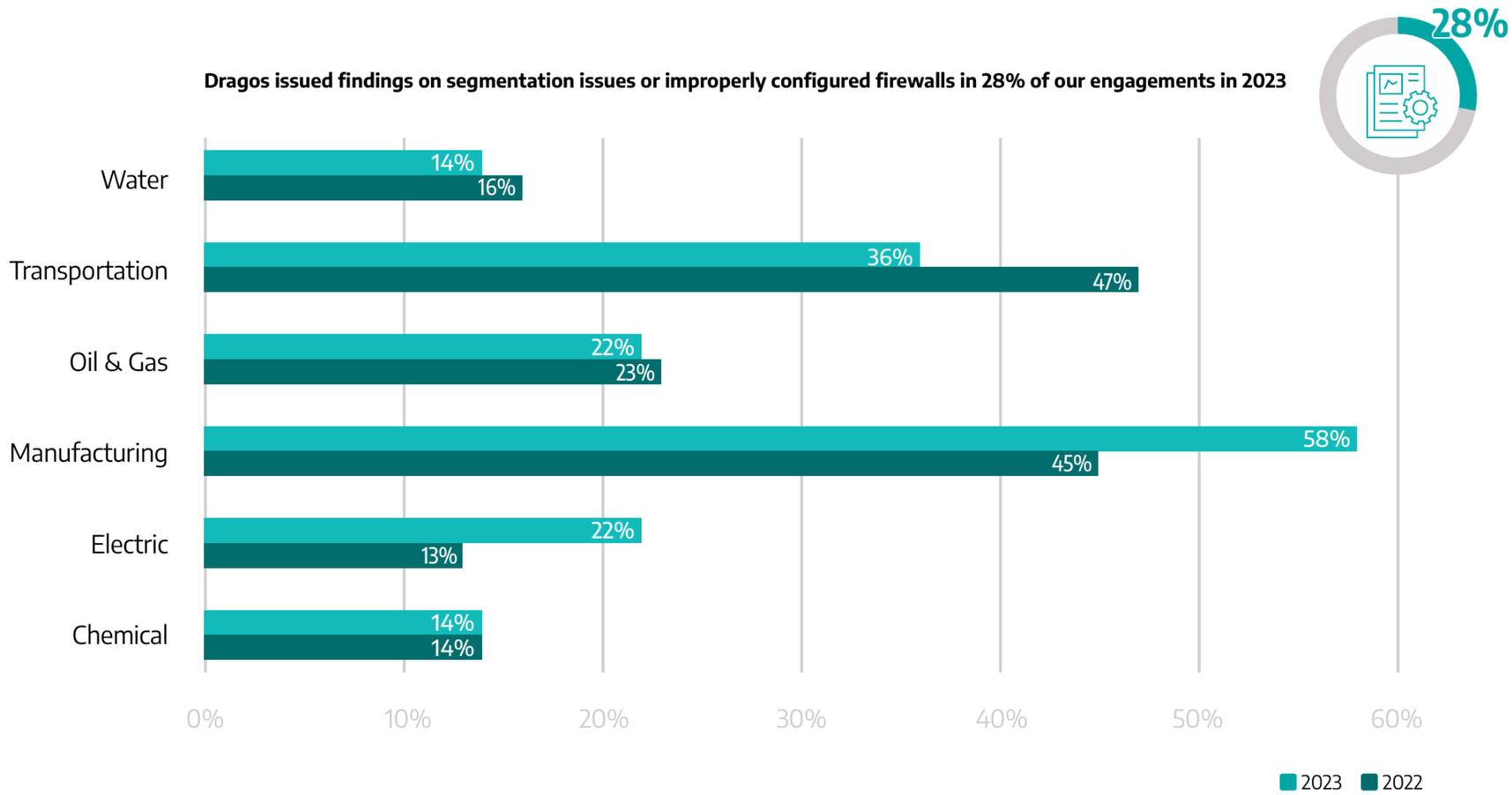


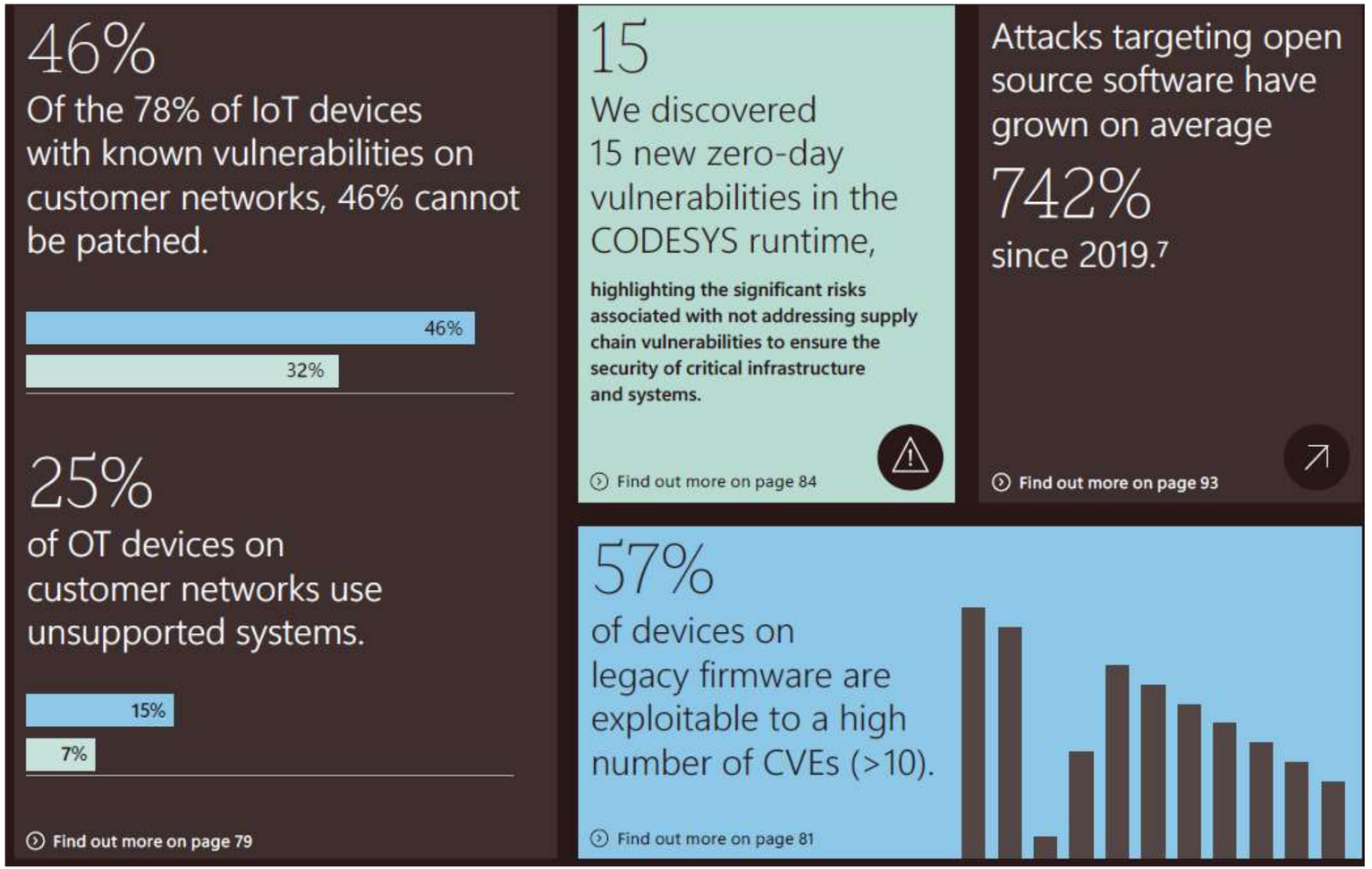
Figure 6: Reports Containing Segmentation Findings

Alcuni dati dal Microsoft Digital Defense Report (Oct.2024)

Identity attacks in perspective

Password-based attacks continue to dominate, but can be thwarted by using strong authentication methods.

OT/IOT/IIoT esposti (Dati 2023)

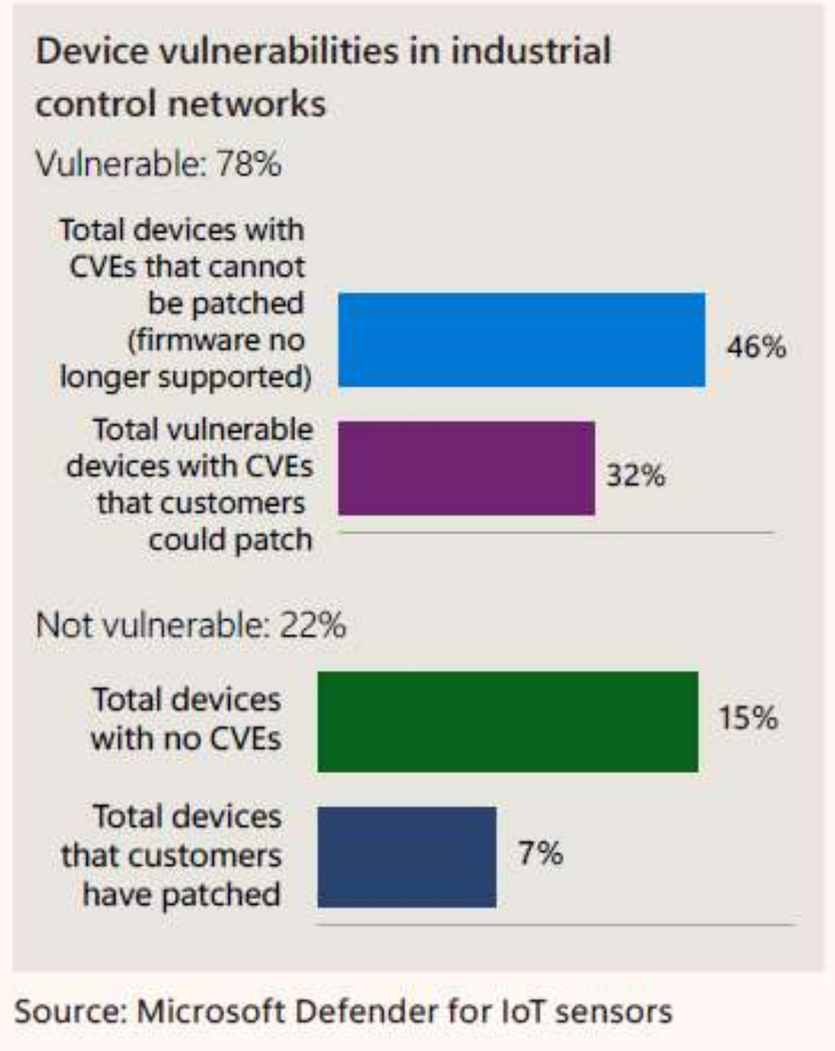


- 78% IoT con Vulnerabilità conosciute, con 46%, quasi la metà, senza possibilità di patch (ovvero il 36%)
- 25% dei dispositivi OT usa SW non supportato (senza possibilità di patch)
- 96% applicazioni usa SW componenti Open Source,
- +742% dal 2010 di attacchi su SW Open Source
- 57% firmare devce OT esposto a più di 10 CVE

Device ICS/OT vulnerabili e non vulnerabili (PLC ecc.)

- 78% IoT con Vulnerabilità conosciute:
  46%, quasi la metà, senza possibilità di patch (ovvero il 36%)
  32% potrebbe avere patch (il 25%)

- 22% risulta non vulnerabile:
  15% senza CVE conosciute
  7% con patch applicate



Alcuni dati dal SANS ICS/OT CyberSec Survey (Oct.2024)

SANS ICS/OT CyberSec Survey - Demographics

Intervistati oltre 500 CISO che gestiscono oltre 1760 Impianti industriali/Utility

78 CISO Europei (10%) con 190 Impianti (18%)

Oltre 60 categorie industriali

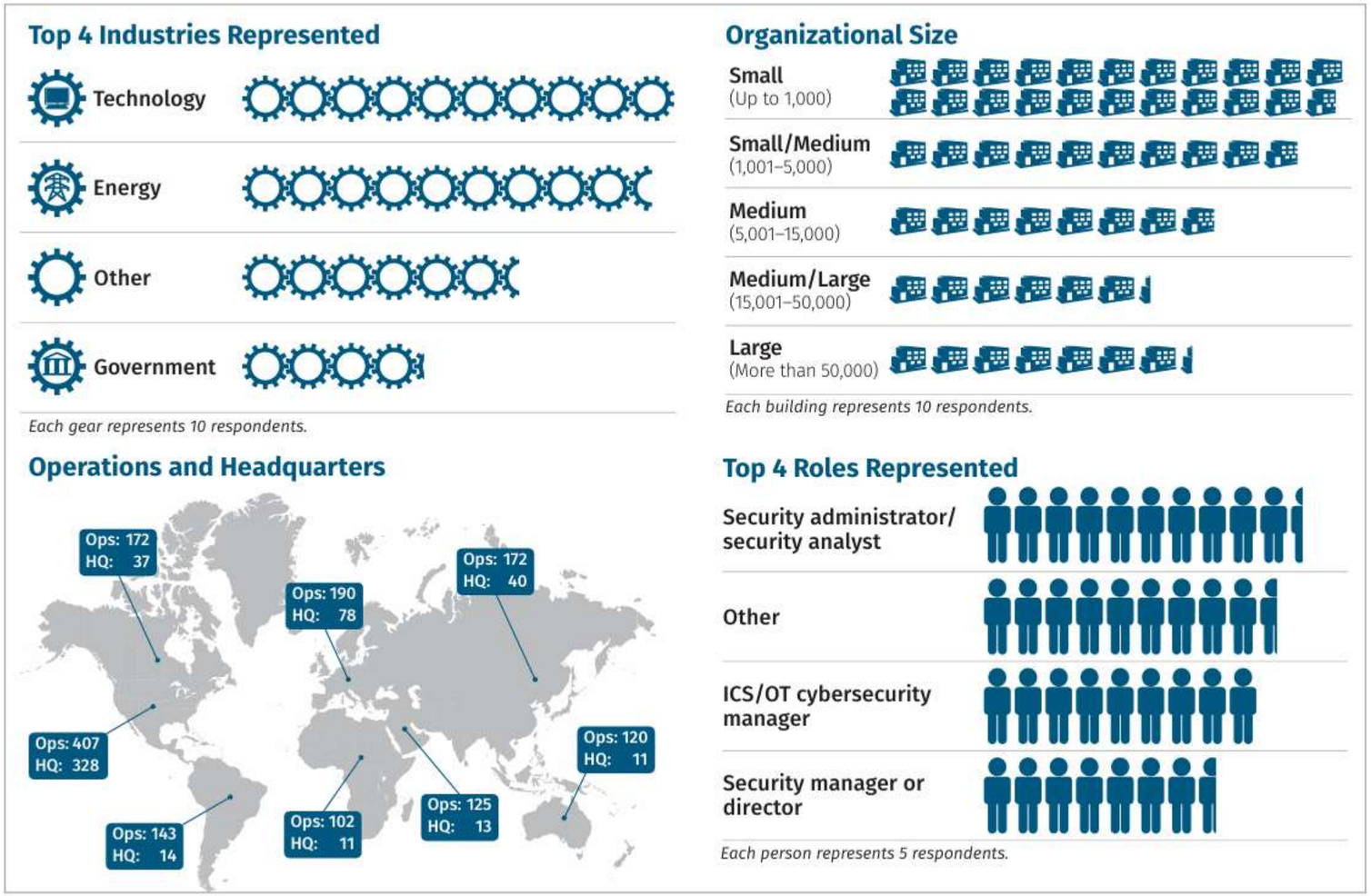
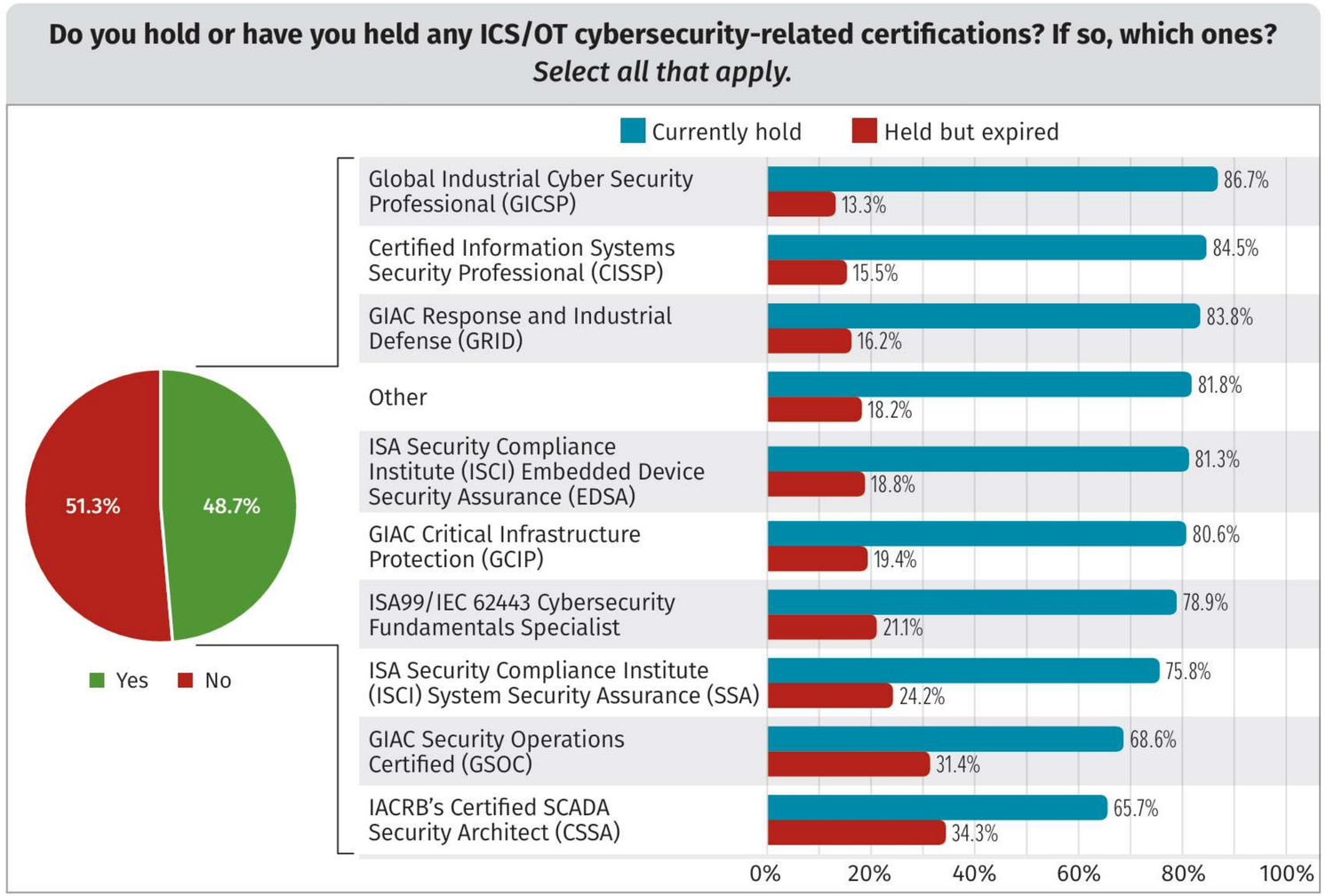


Figure 1. Survey Demographics

SANS ICS/OT CyberSec Survey – Le certificazioni



SANS ICS/OT CyberSec Survey – Da dove arriva l'attacco ?

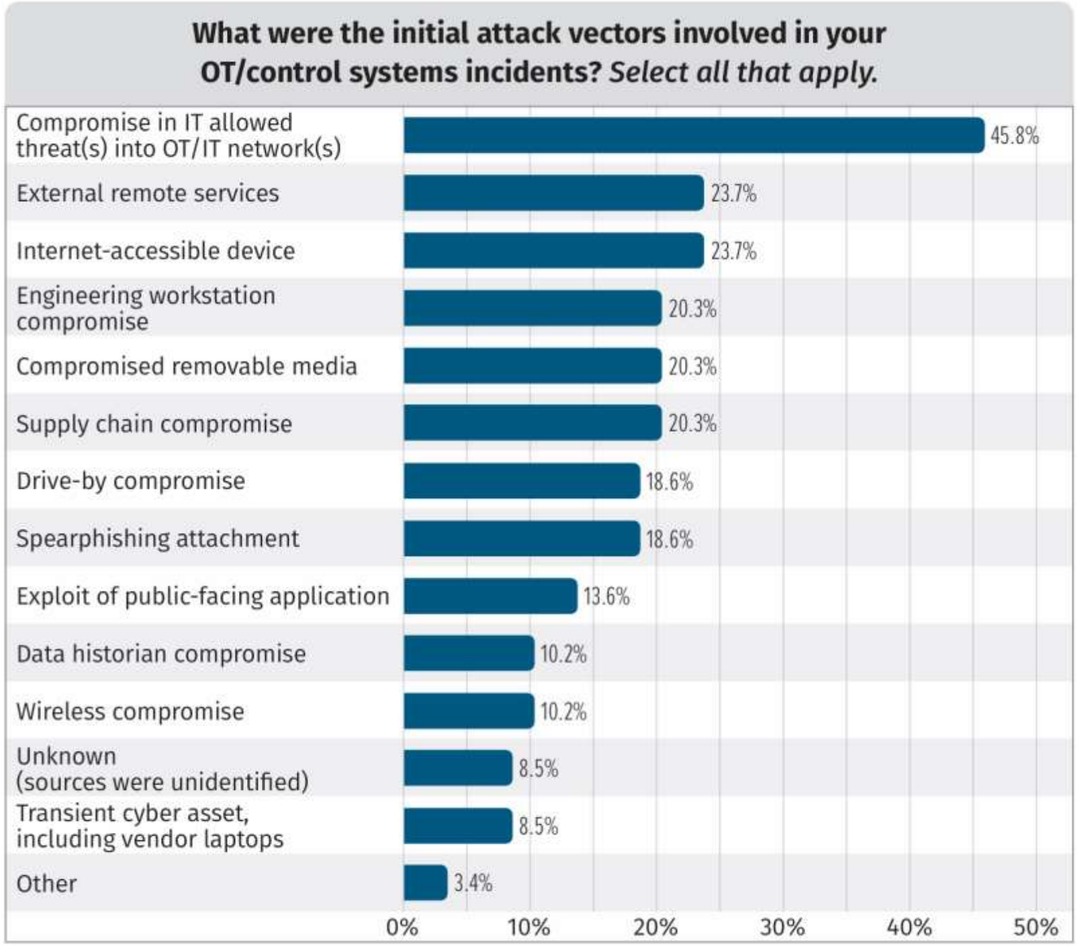


Figure 12. Initial Attack Vectors

SANS ICS/OT CyberSec Survey – In cosa investire?

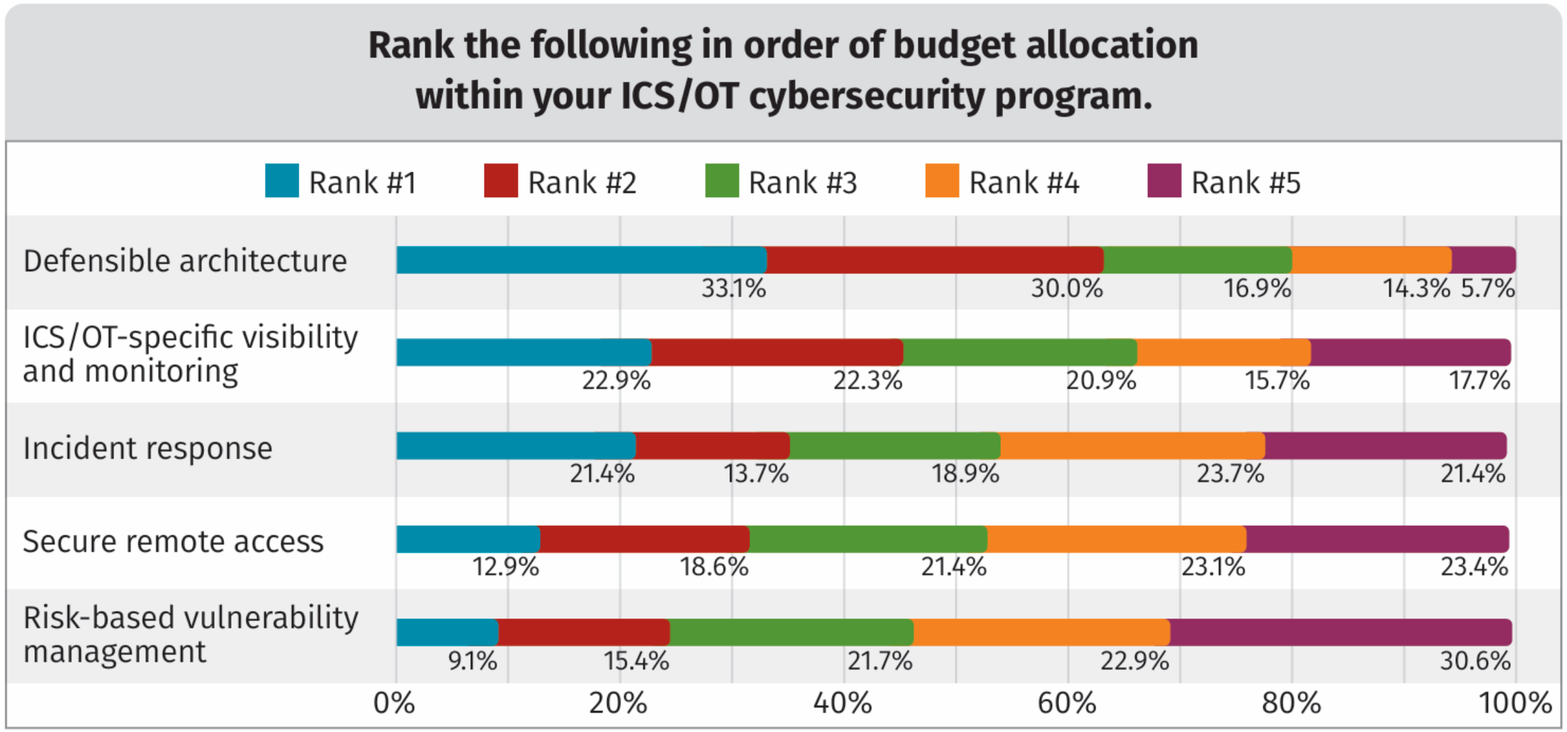
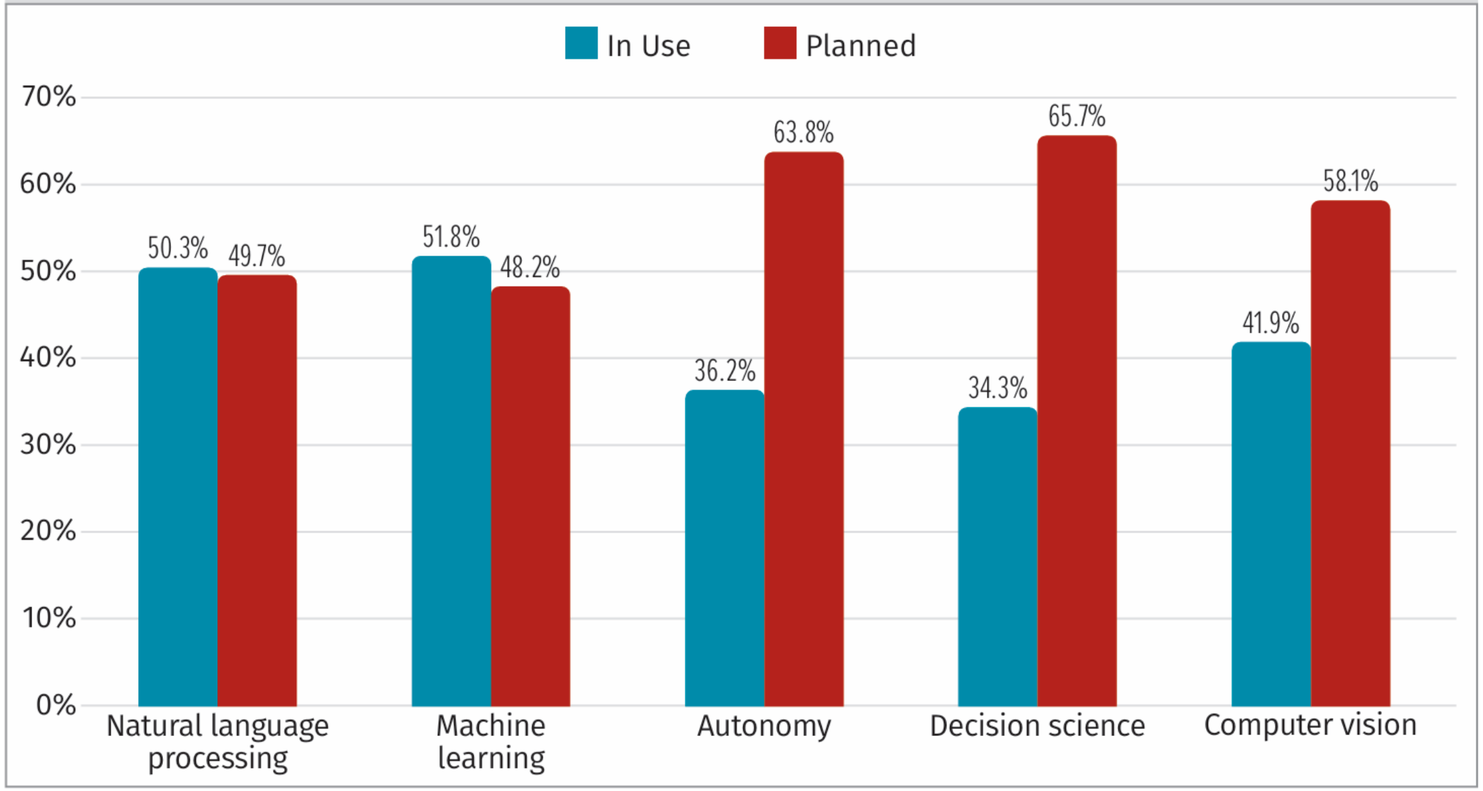


Figure 7. Priority Level of the SANS Five ICS Cybersecurity Critical Controls, Based on Budget Spend

network, identify

SANS ICS/OT CyberSec Survey – Il ruolo dell'AI

What AI technologies or solutions do you currently have in use in your industrial organization? What new AI technologies or solutions is your organization looking to deploy in the next 18 months? ***Select only those that apply.***



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Andrea Monteleone, Presidente di ANIE Sicurezza
Ivan Monti, Ansaldo Energia
Alessio Pennasilico, CS Clusit
Valeria Prosser, E-phors S.p.a
Massimo Tripodi, Veracode