CYBER THREAT RADAR

Dutch Healthcare Sector





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Dep. Director National Cyber Security Center



Group CISO Rabobank



Founder and Chair Financial ISAC NL



Chair Advisory Board Cybersecurity Research Community NL



Member of Permanent Stakeholder Group ENISA





ROOTS AND ORIGINS OF Z-CERT

Sponsors



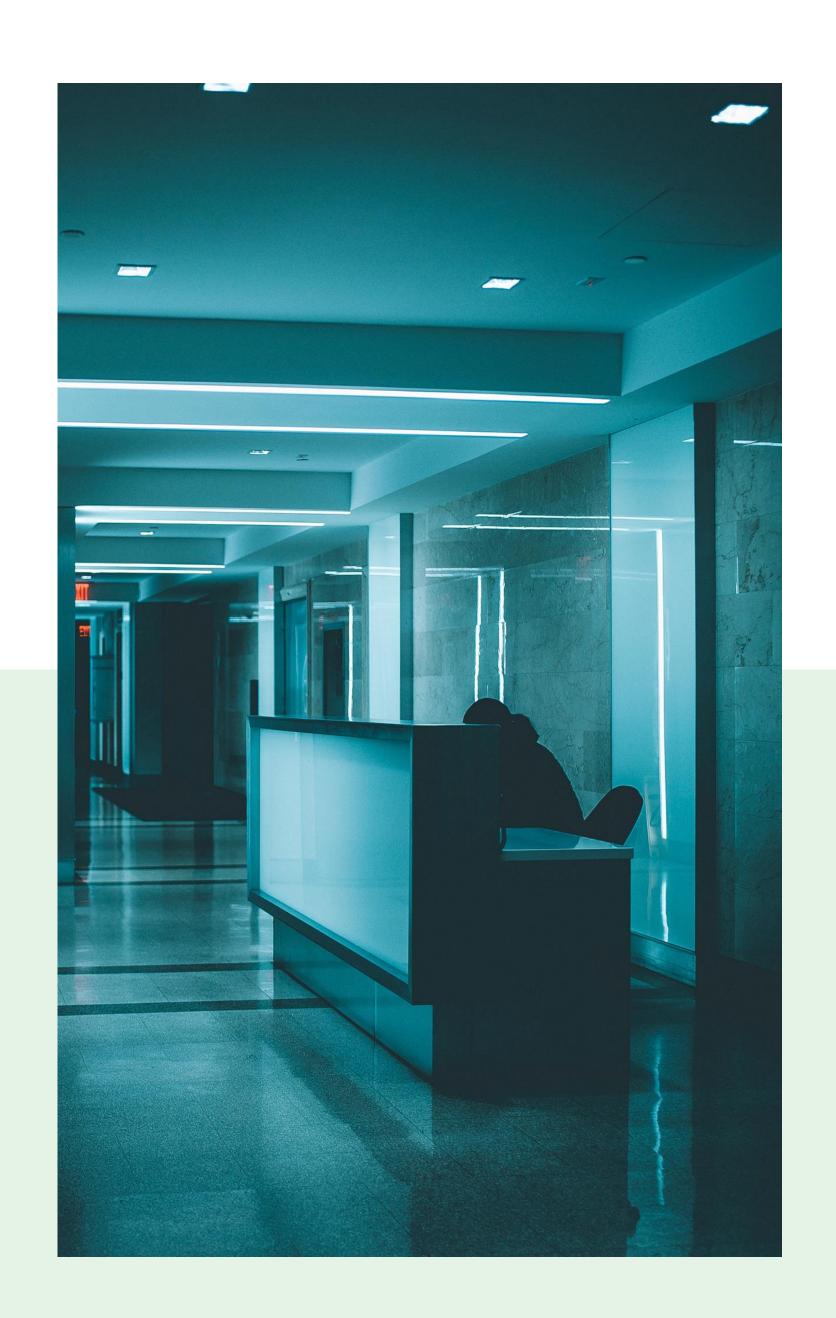




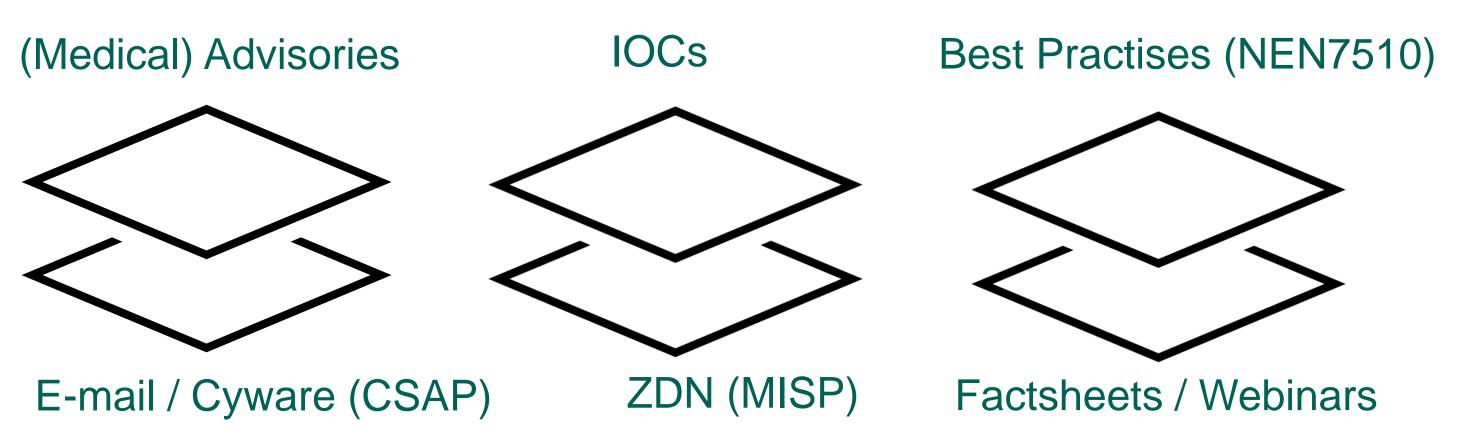


Foundation (Nonprofit)

- Membership fees
- Public funding



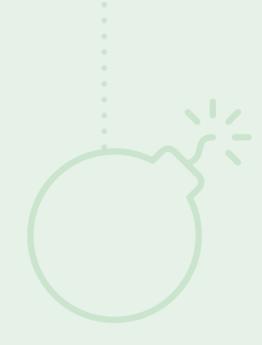




INFORMATION SHARING





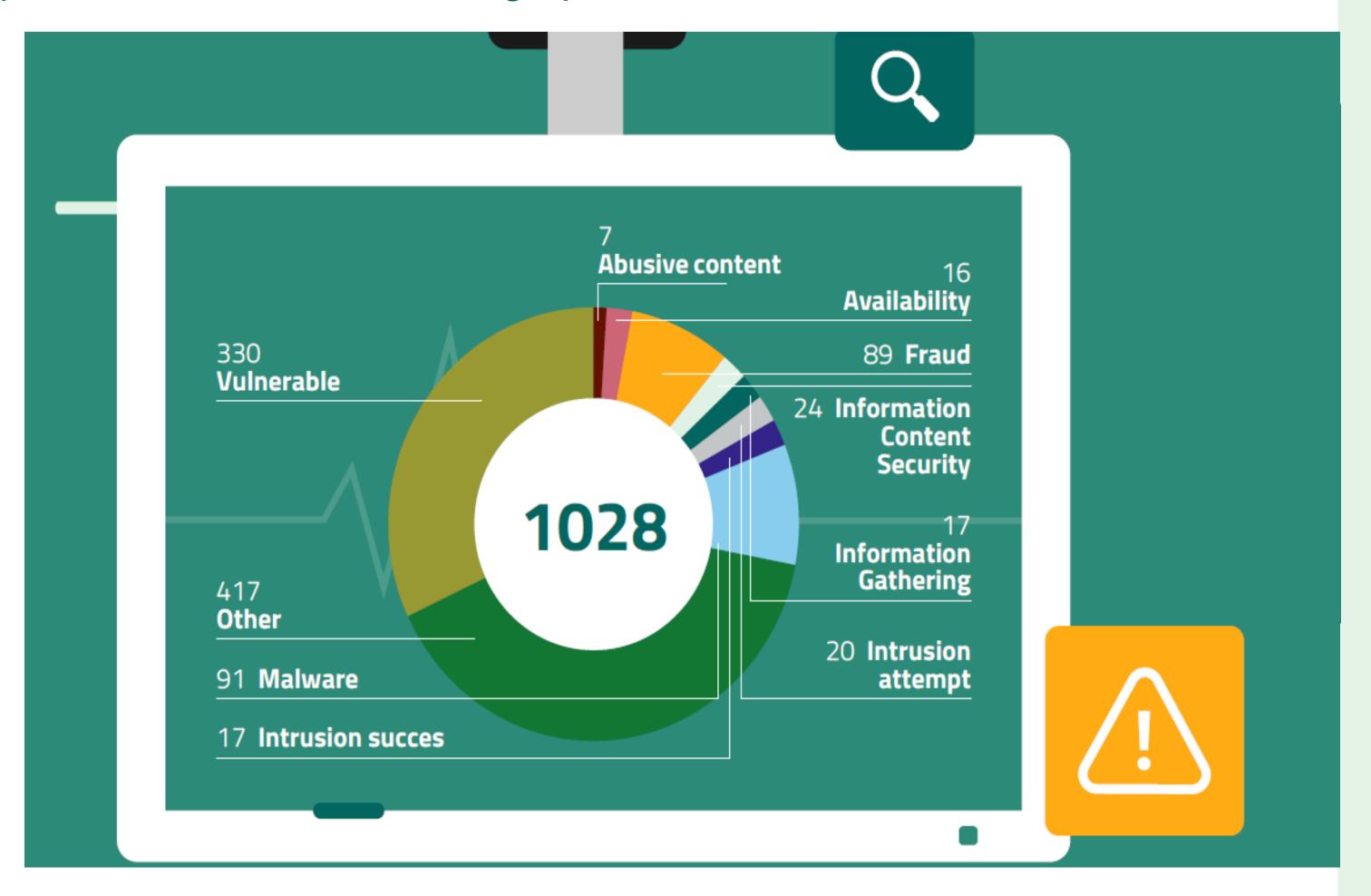


Improve and build up cyberresilience in the Dutch Healthcare sector





Incidents reported to Z-CERT including operational advisories towards members



Top 9 Data Breaches in 2021 *

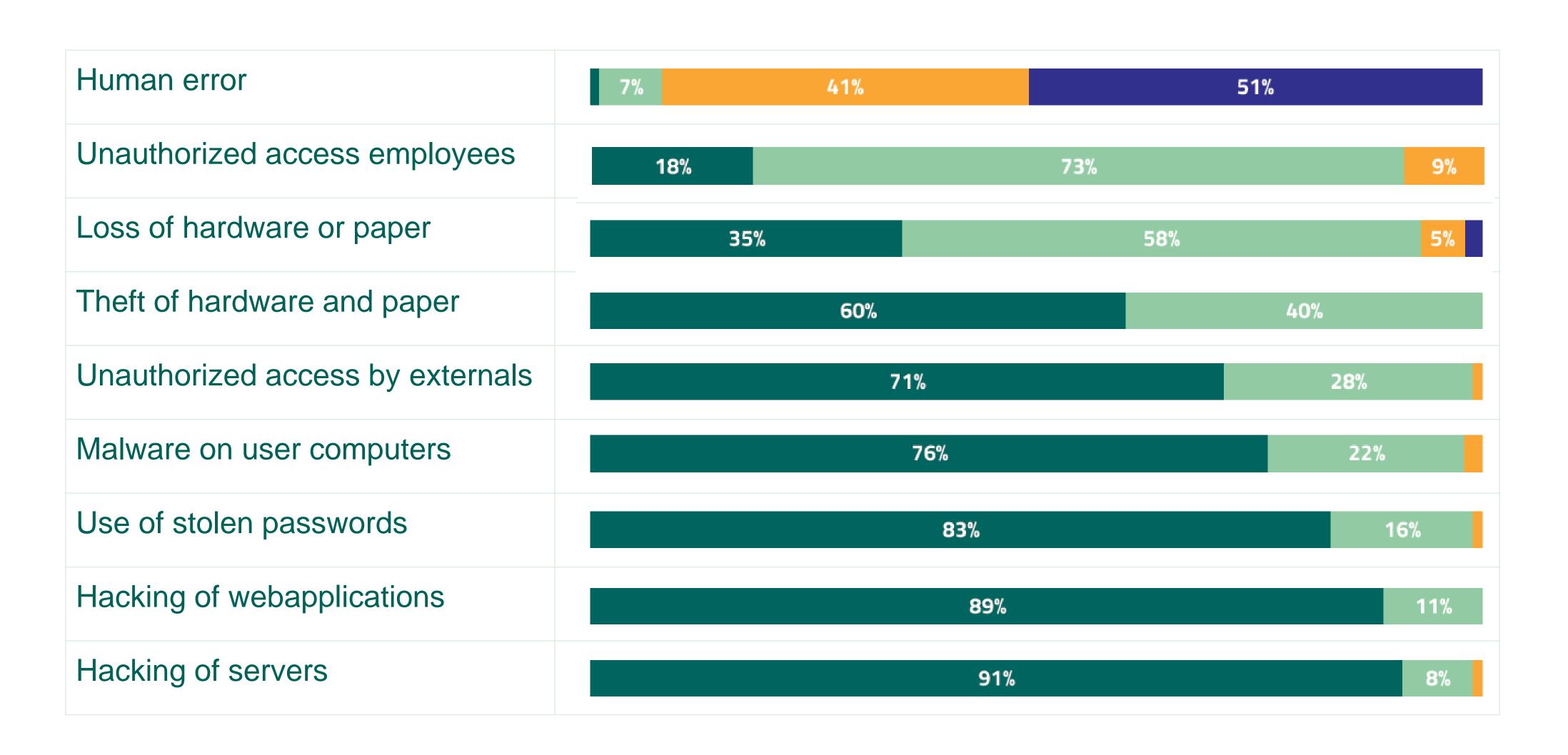


Never

Rarely

Often

Very often



^{*} Source: Z-CERT member survey





CYBER THREAT RADAR HEALTHCARE NL

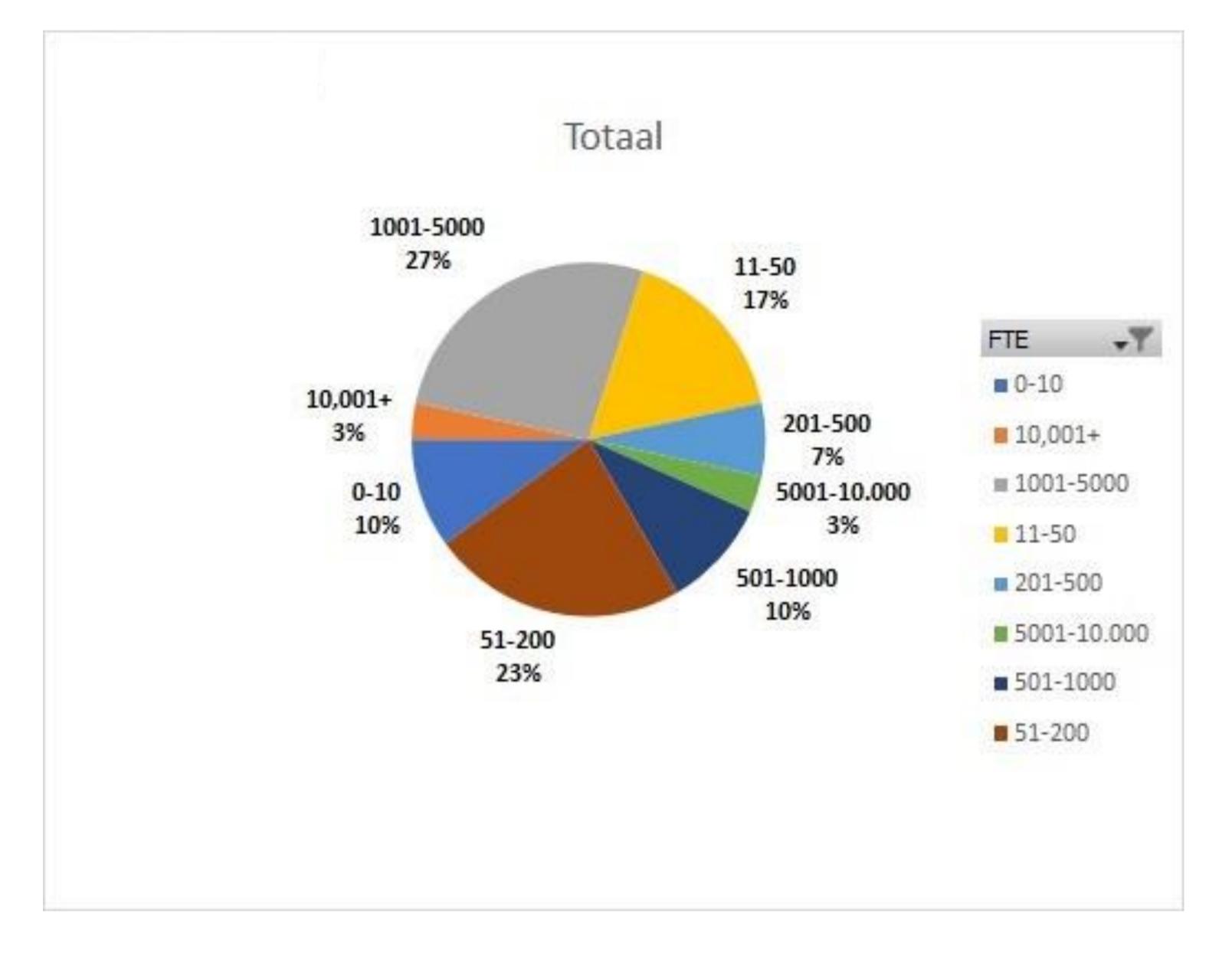




	Threat
•	Ransomware
0	Unavailability of Information Systems or Portals
8	Theft of medical patient records
4	Supply chain attacks
6	Attacks via vendors
0	Phishing
	Attacks on connected medical devices
8	Insider threats
0	Malware via compromised websites
10	Malicious apps

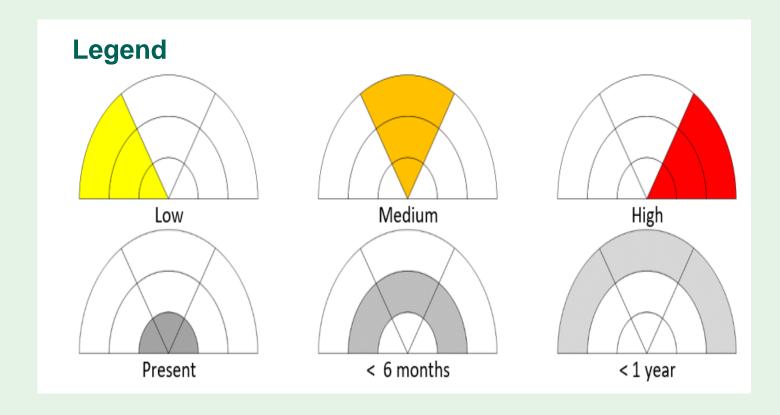


Healthcare ransomware victims versus #FTE

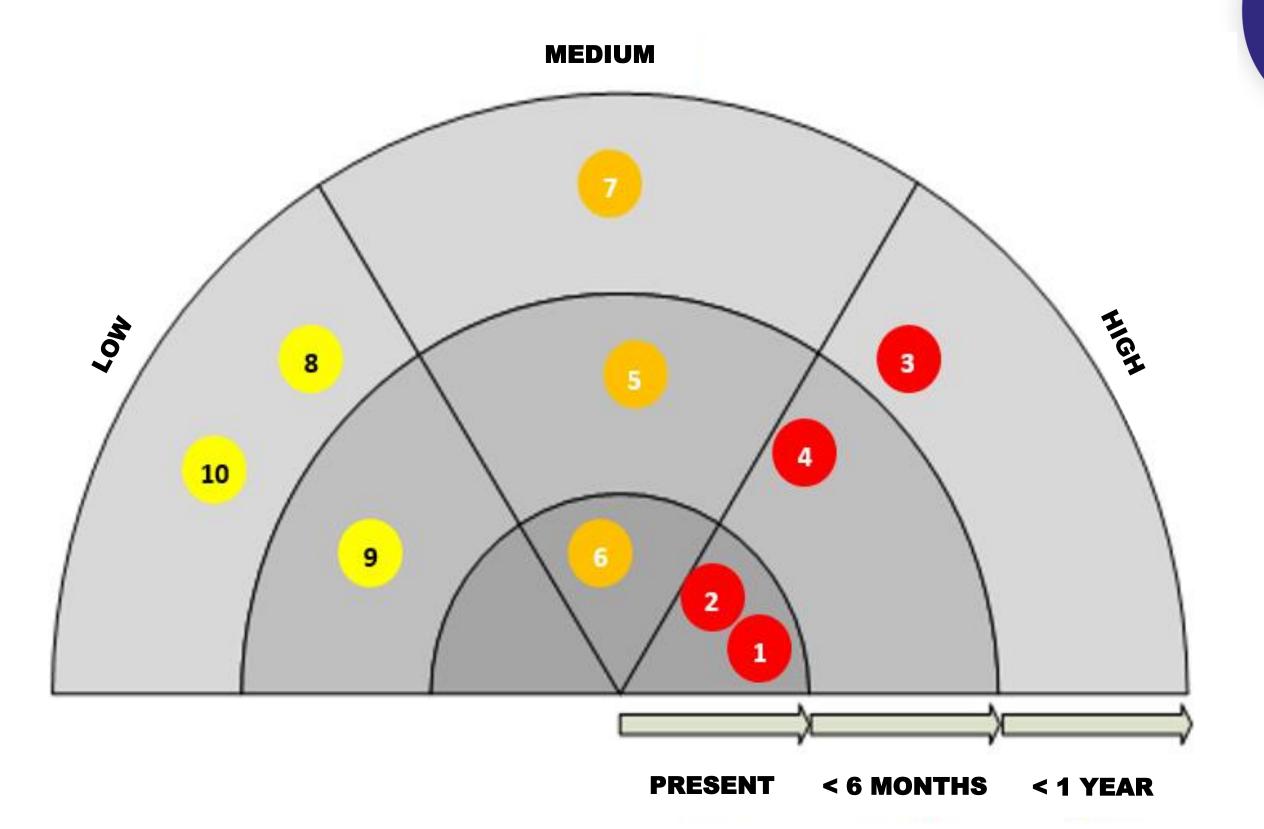




RADAR



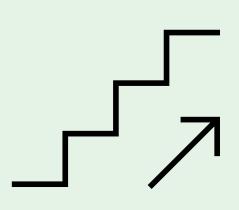




- Ransomware
- Unavailability of information systems or portals
- Theft of medical patient records
- Supply chain attacks
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CYBERTHREAT ENABLERS



1	Vendor market dominance
2	Shadow IT
3	COVID 19 - IT network bypasses
4	Geopolitical situation (War in Ukraine)
5	Shift to home treatments
6	Cybersecurity mesh
7	Medical systems legacy





CYBERSECURITY DISABLERS





1	Cybersecurity knowledge of IT staff
2	Misconfigured API's
3	Awareness @ board level
4	Tight cybersecurity labor market
5	Insufficient patch management
6	Awareness @ app developers
7	Cached admin credentials
8	Violation of least privileged policy
9	Disinformation / hoaxes







Stichting Z-CERT

www.z-cert.nl

