

Figure 1: Gap identificati tra ricerca accademica e implementazione pratica nella GDO

Table 1: Metriche di evoluzione degli attacchi POS 2019-2025

Periodo	n Campioni	Success Rate (%)	Detection Rate (%)	Persistenza (giorni)
2019-2021	89	73.0 ± 4.2	85.4 ± 3.1	14.3 ± 2.1
2022-2023	76	45.1 ± 5.3	62.7 ± 4.8	23.7 ± 3.4
2024-2025	69	61.8 ± 4.7	33.9 ± 5.9	41.2 ± 5.2

Test χ^2 : $\chi^2(4) = 67.82$, $p < 0.001$ (differenze significative tra periodi)

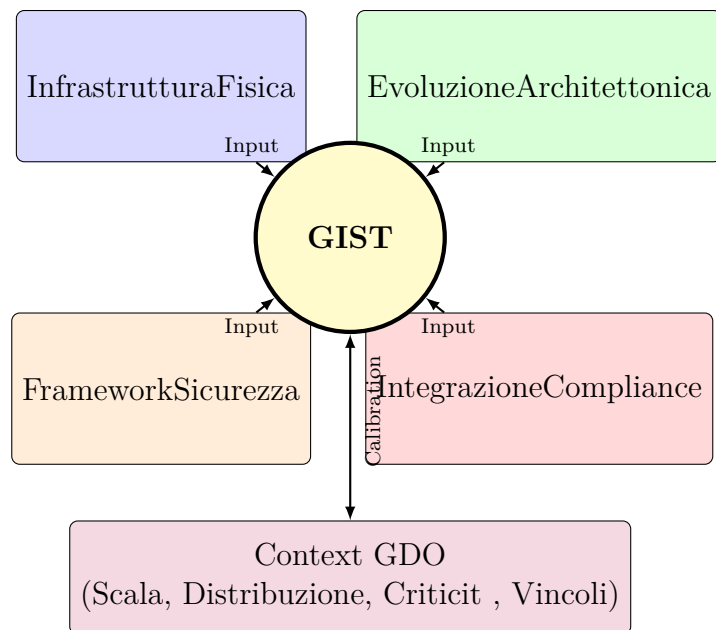


Figure 2: Architettura concettuale del Framework GIST (GDO Integrated Security Transformation)

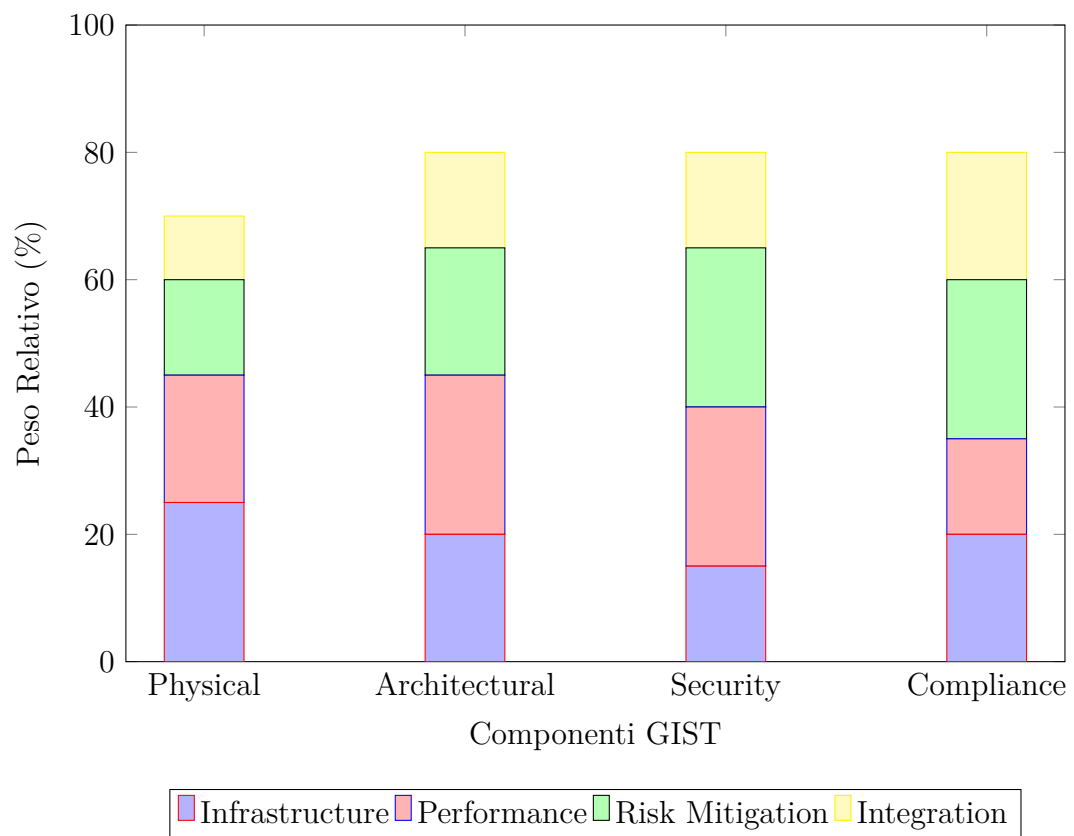


Figure 3: Decomposizione dei pesi relativi nel Framework GIST per diversi scenari operativi

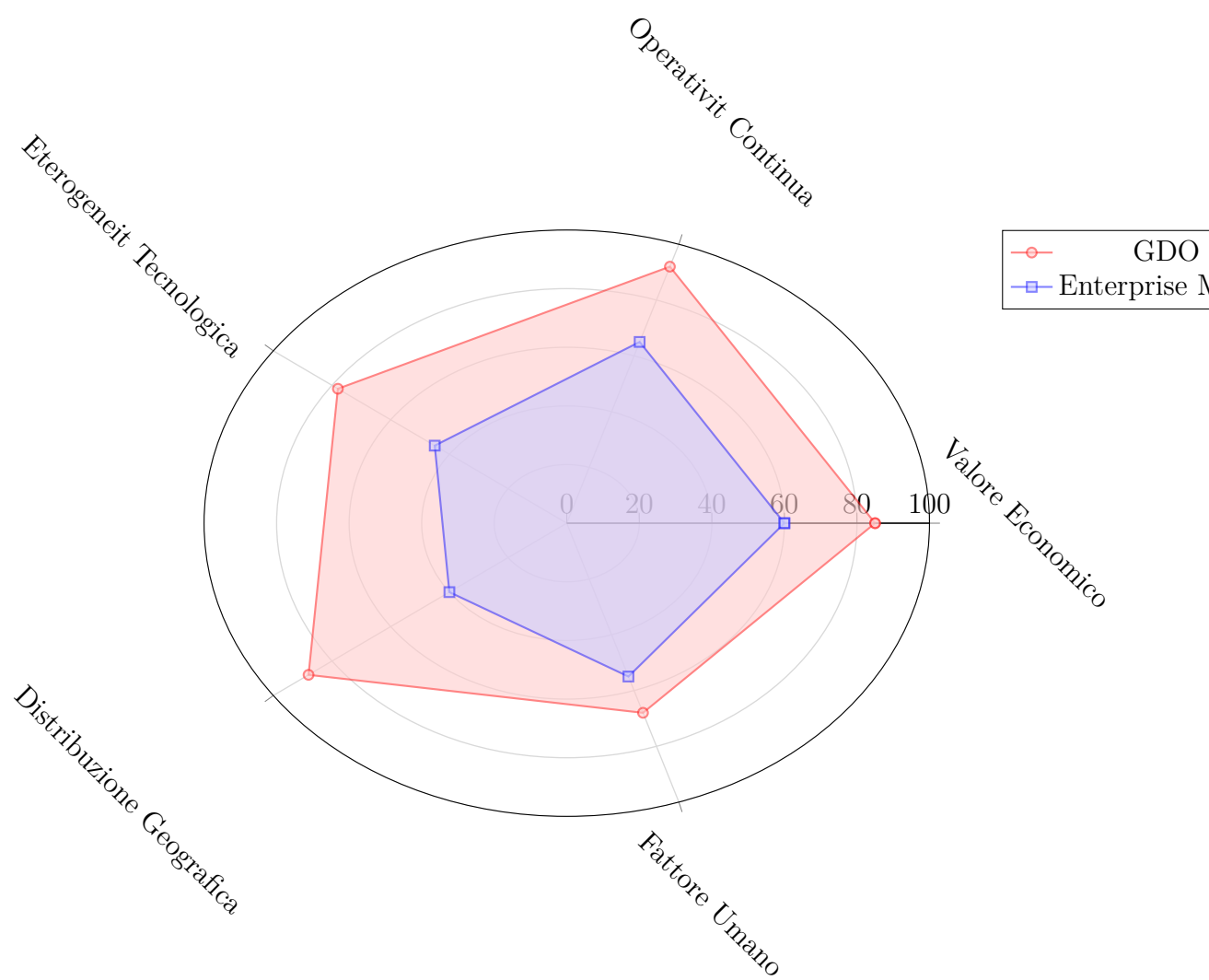


Figure 4: Modello tridimensionale dei fattori di vulnerabilit - Confronto GDO vs Enterprise

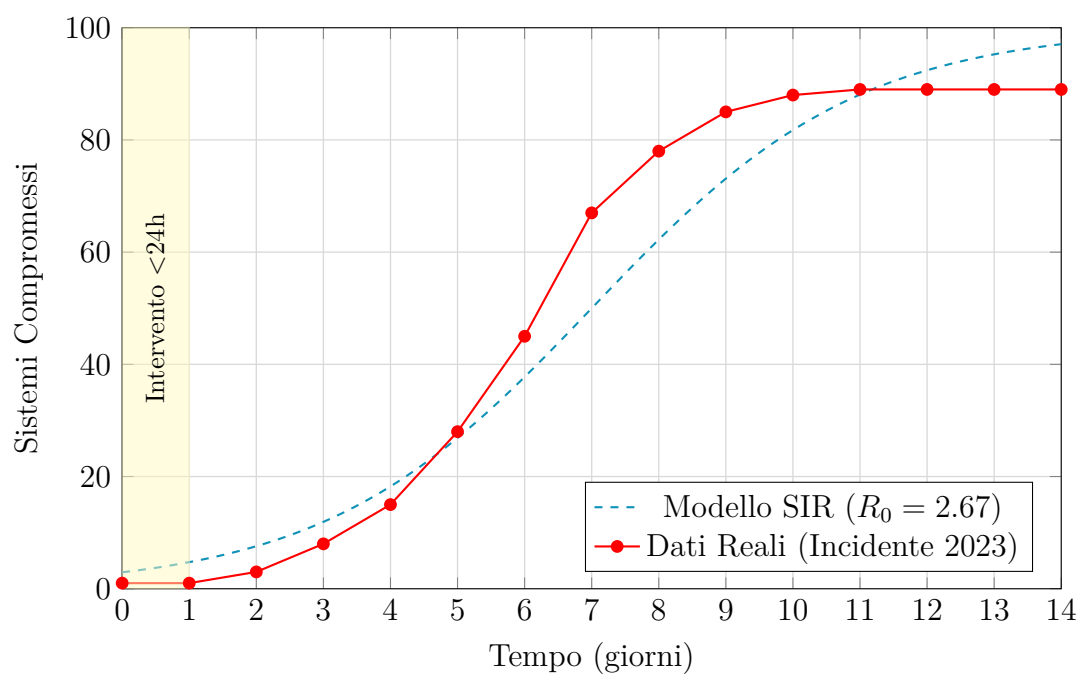


Figure 5: Curva di propagazione del malware: confronto tra modello SIR e dati reali dell'incidente 2023

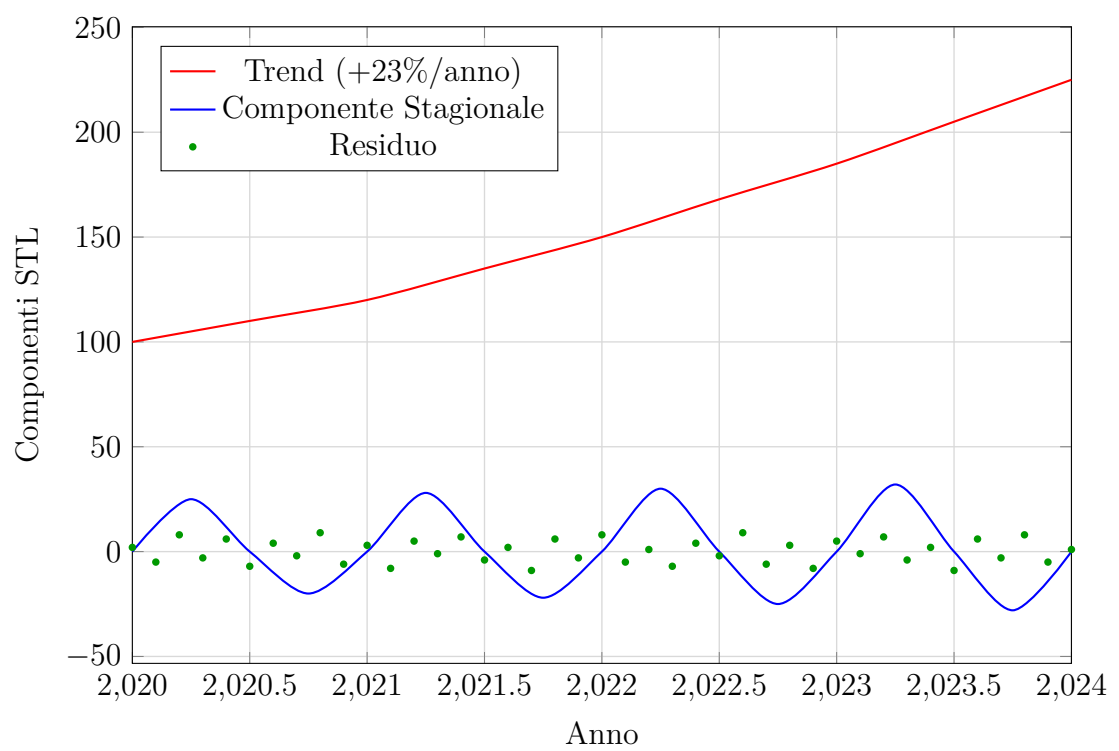


Figure 6: Decomposizione STL degli attacchi GDO 2020-2024

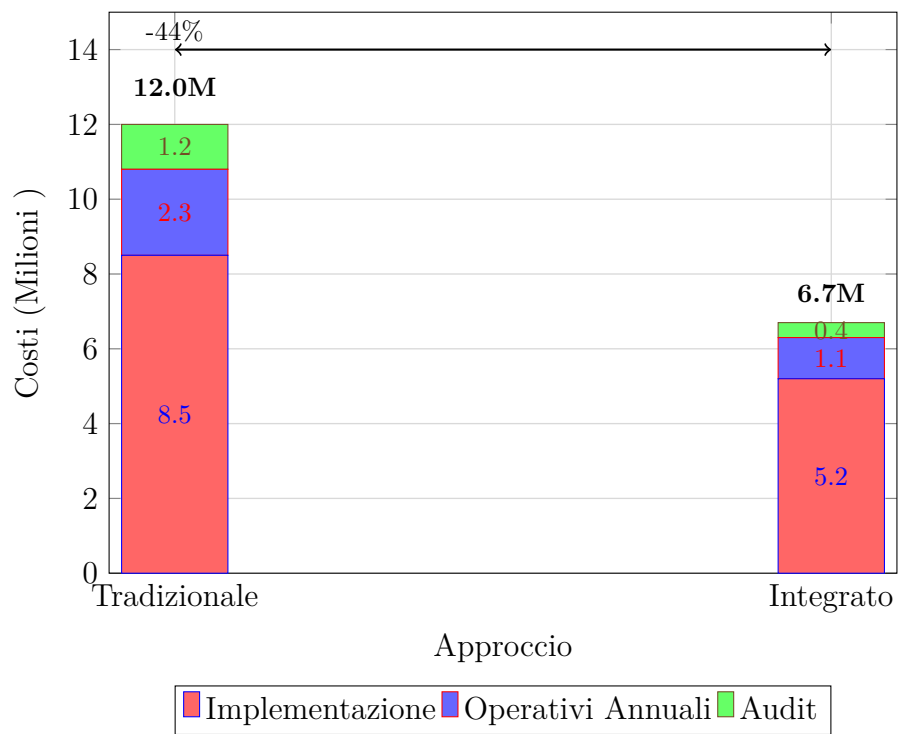


Figure 7: Confronto costi di compliance: approccio tradizionale vs integrato (IC 95%)

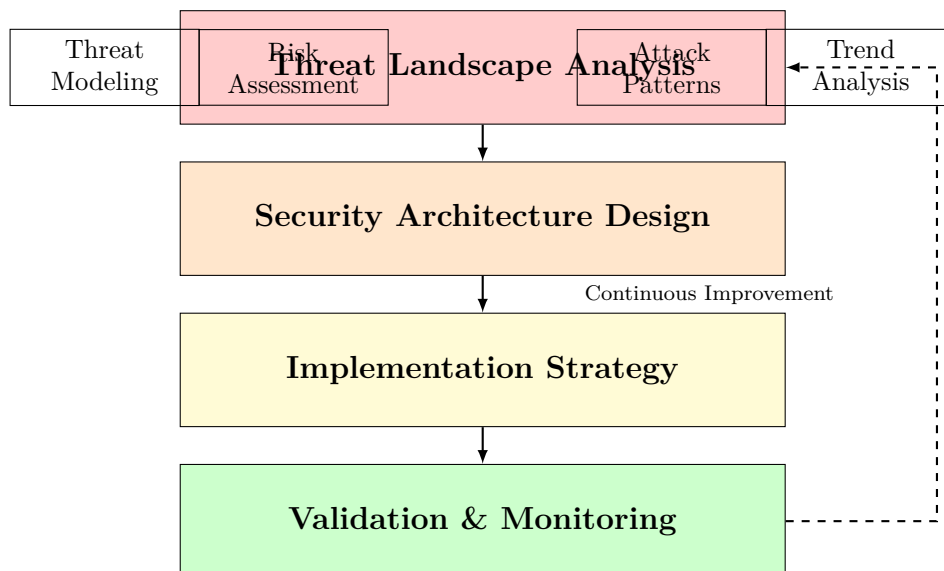


Figure 8: Framework integrato di sicurezza GDO: dal threat landscape all'architettura