

GSMA Mobile Telecommunications Security Landscape

2025 Report

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What is the GSMA?

We are a global organisation unifying the mobile ecosystem to discover, develop and deliver innovation foundational to positive business environments and societal change. Our vision is to unlock the full power of connectivity so that people, industry and society thrive.

We unite over 1000 mobile operators and businesses across the ecosystem and related industries to advance innovation and reduce inequalities around the world.

GSMA Security programme vision:

The mobile ecosystem faces unprecedented threats, with fraud and security breaches becoming increasingly common.

Our vision is to drive progress to secure the mobile ecosystem by leading on industry collaboration, providing expertise and analysing the mobile security landscape from long-standing to emerging and future technology threats.

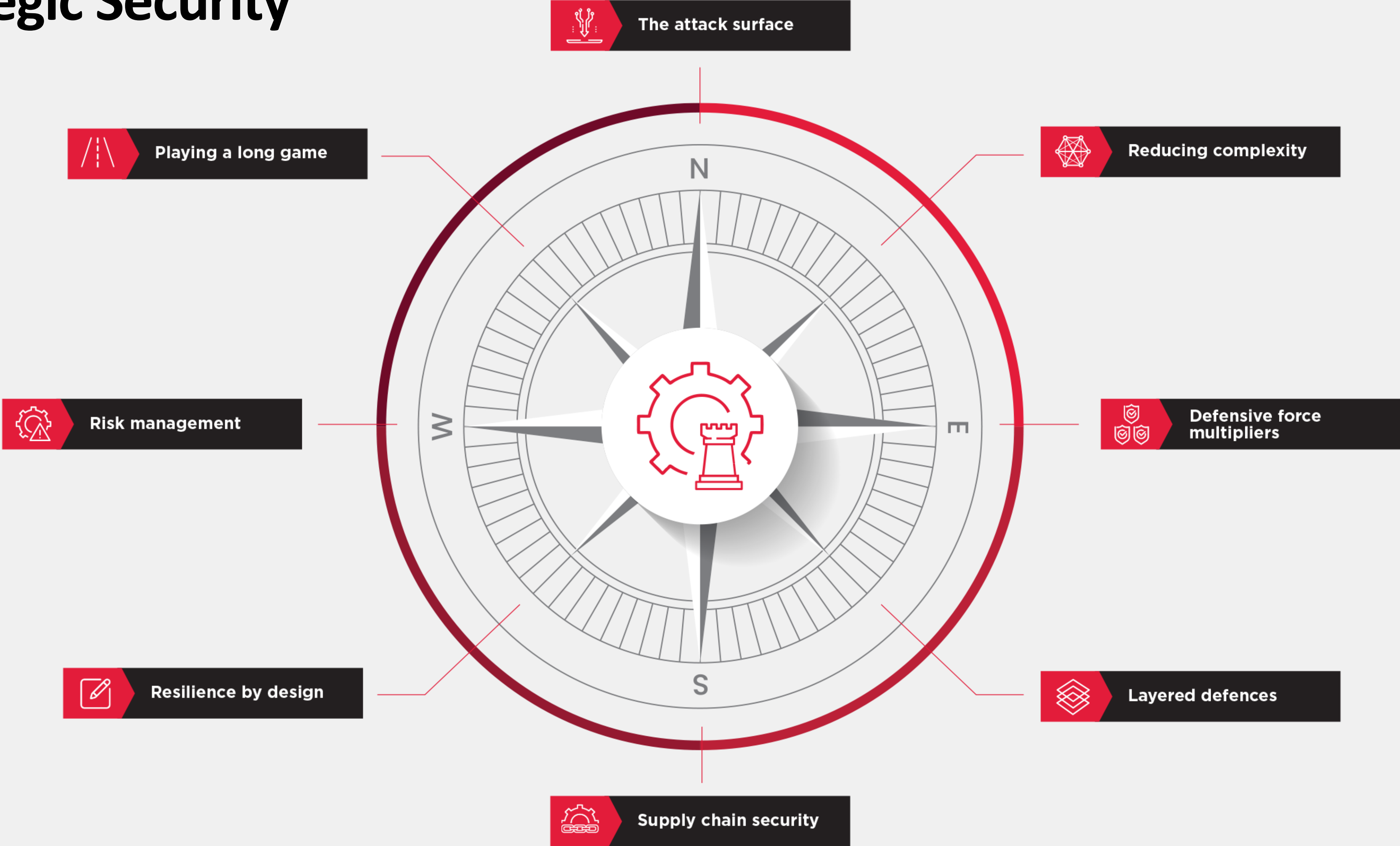
GSMA Mobile Telecommunications Security Landscape

- This is the 7th edition of the report.
- New approach, breaking it into three distinct areas:

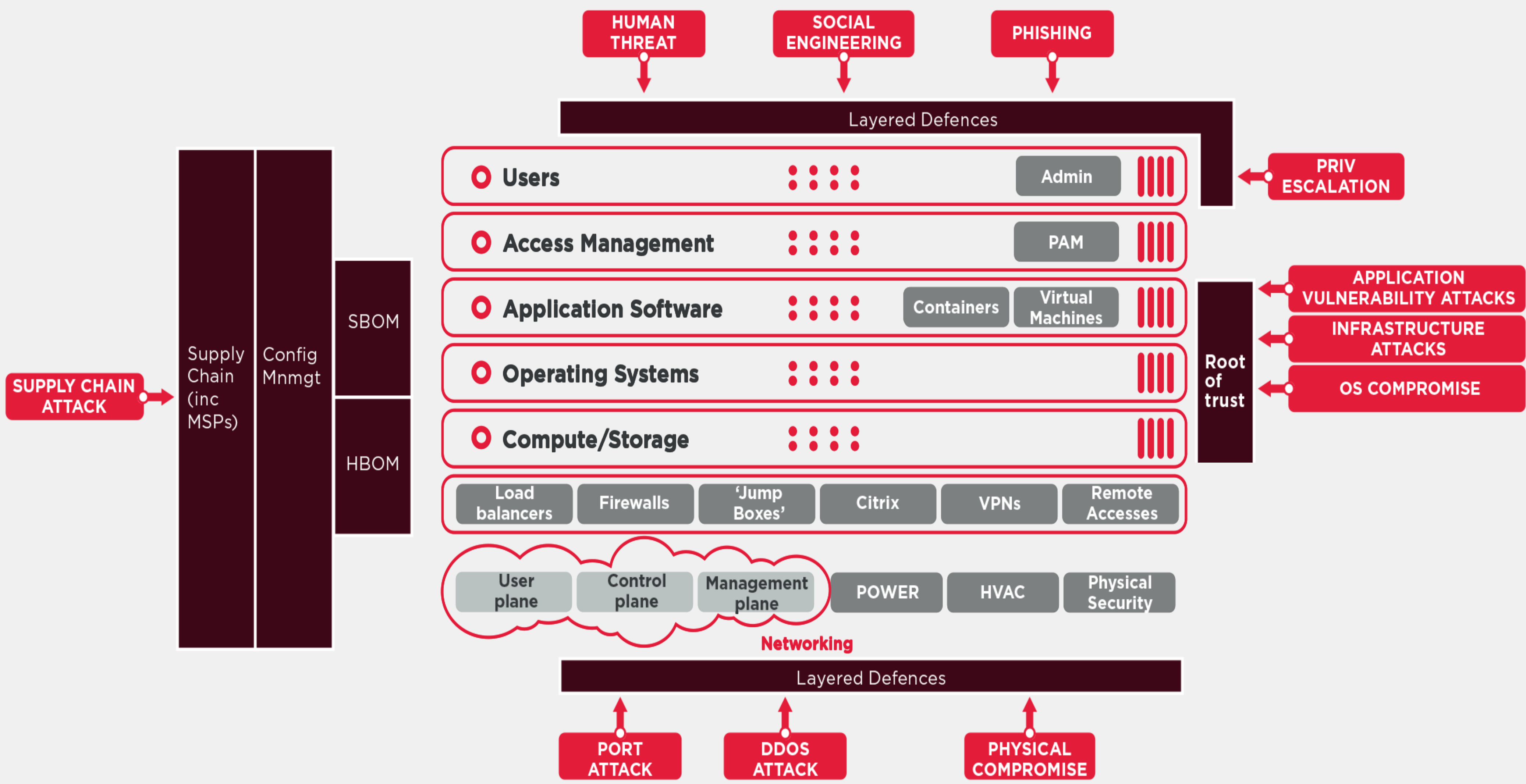


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Strategic Security



The attack surface





Defensive force multipliers



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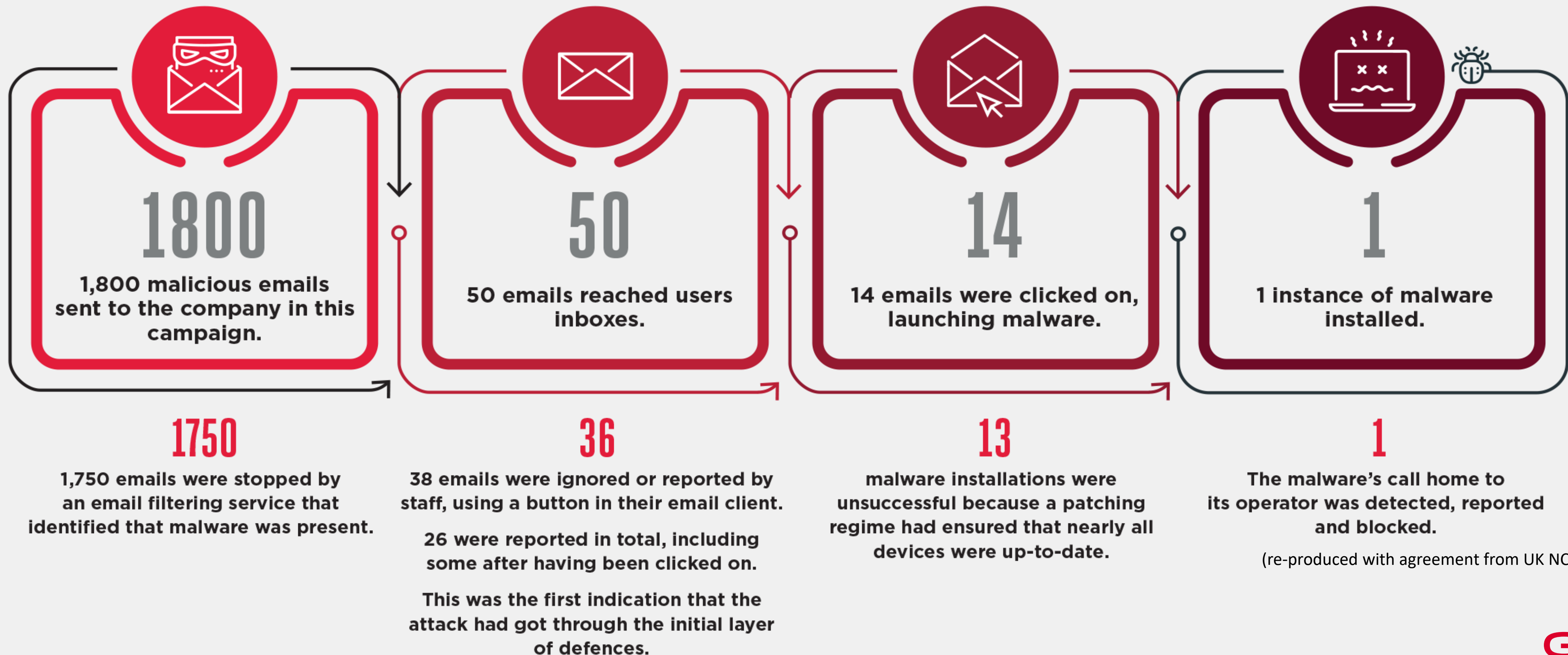


Members impacted can identify new attacks, correlate events, patterns and trends. Ultimately leads to faster security controls and remediation

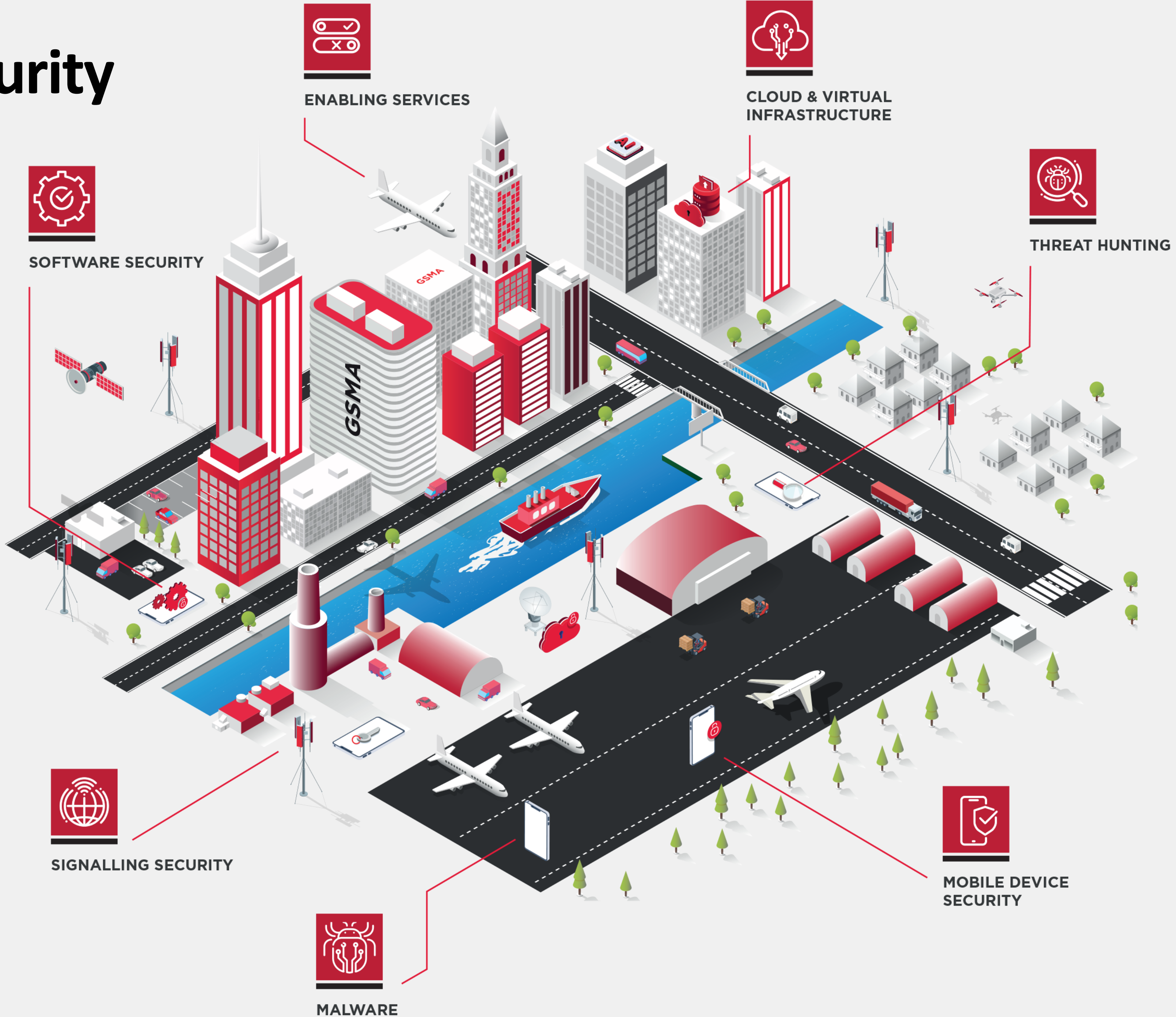


Multi-layered phishing mitigations

The following real-world example shows how implementing layers of defences can help organisations (in this case a financial sector company of around 4000 staff) defend themselves against phishing attacks. Reliance on any single layer would have missed some of the attacks, and cleaning infecting devices is costly and prohibitively time consuming

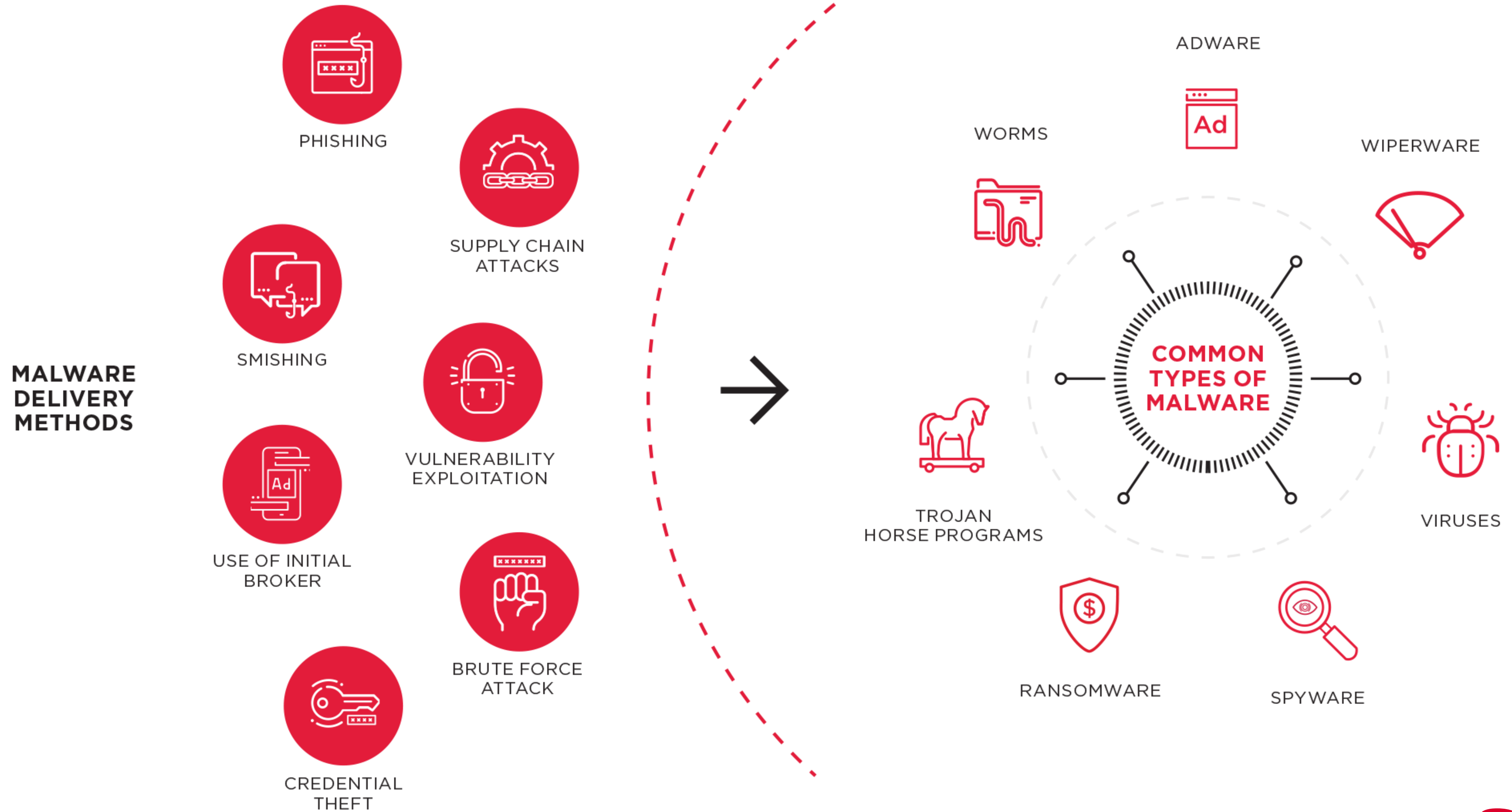


Technical Security

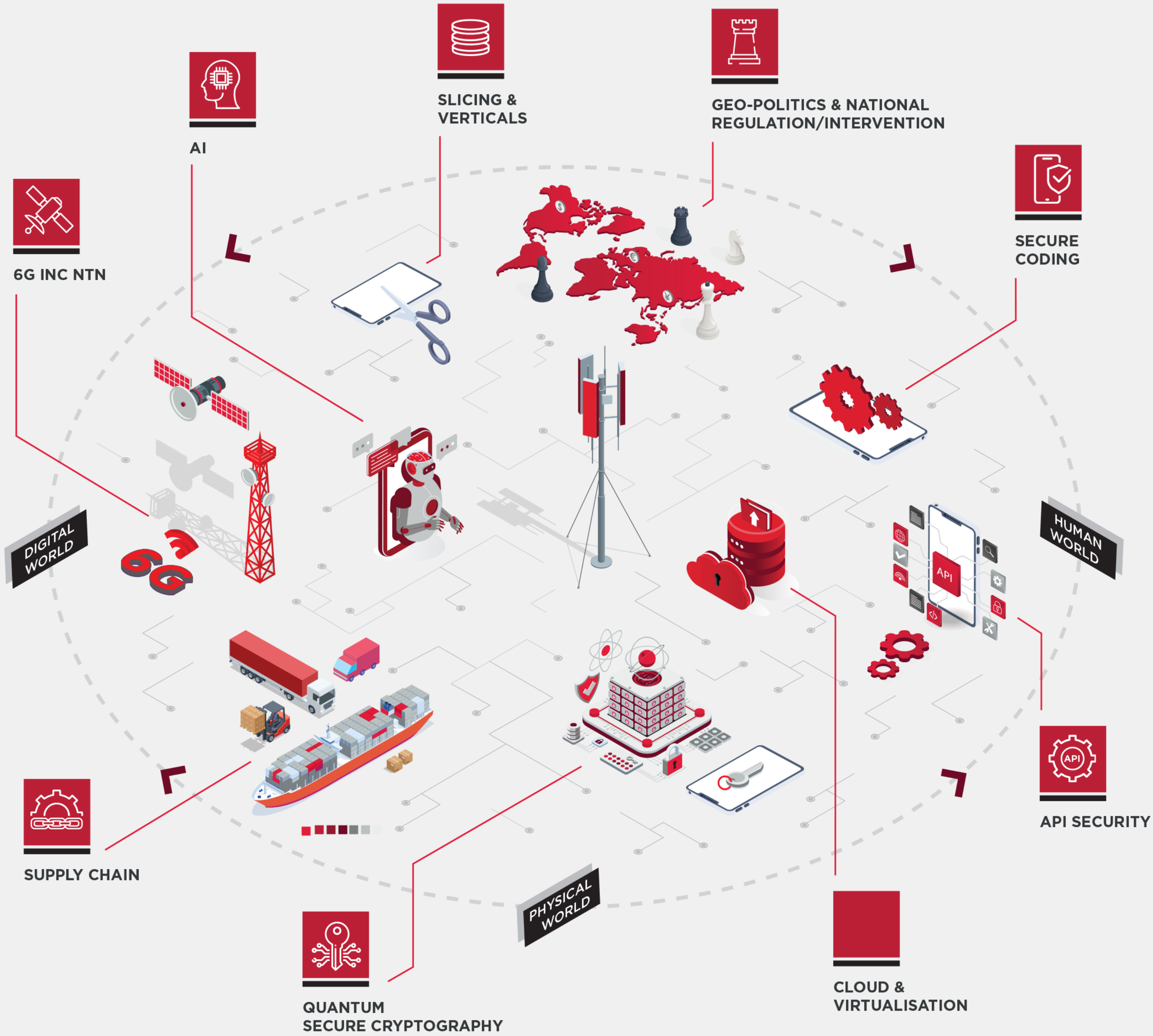




Malware



The Emerging Security Context



Final Thoughts

Five key themes can be identified from this report:

1. Defensive force-multipliers – the industry is stronger when it acts together.
2. Know the network – to defend the network, it is important to understand its infrastructure, underlying technologies, capabilities, data flows, composition, configuration, and, where possible, simplify and reduce the attack surface.
3. Protect the infrastructure – key defences include patching and platform hardening, layered defences, resilience-by-design, log analysis, threat hunting, least privilege and multi-factor authentication (MFA).
4. Supply chain – as many attacks are launched through the supply chain, supply chain security is a core competence now and into the future.
5. Think of the future when making decisions – understand the emerging security context, core skills and capabilities to make informed decisions.

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