TIRAZA

Continuous Threat Exposure Management (CTEM)

From Exposure Visibility to Measurable Risk Reduction

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Enabling Continuous Cyber Resilience — Continuous Visibility. Smarter Priorities. Stronger Resilience

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01 - Executive Summary

Continuous Threat Exposure Management (CTEM) is a modern cyber resilience approach that shifts organizations from reactive defense to continuous risk reduction. Instead of focusing on isolated vulnerabilities, CTEM enables leadership to understand which exposures truly matter to the business, validate whether they can be exploited, and ensure they are addressed in a timely, measurable way.

Tiraza CTEM is an ongoing operational model providing real-time visibility into risk, prioritizing actions based on business impact, and delivering clear metrics on how

> ***Tiraza enables organizations to continuously identify, prioritize, validate, and reduce real-world cyber exposure - turning security from reactive defense into proactive risk management.***

Core Business Outcomes

What CTEM Delivers

✓ Business continuity and operational resilience

✓ Regulatory alignment (HIPAA, PCI-DSS, SOC2, NIST)

✓ Measurable risk reduction via KPIs and KRIs

✓ Real-time visibility across the full attack surface

Why It Matters Now

✓ Thousands of vulnerabilities with no clear priority

✓ Expanding attack surfaces: cloud, remote users, third parties

✓ Limited validation of real-world exploitability

✓ Slow, reactive remediation leaving critical risks exposed

02 - The Problem with Traditional Security

Despite significant investments in security tooling, most organizations still face a fundamental gap: critical risks remain exposed because security programs are built around identifying threats, not reducing real-world exposure. The result is a cycle of alerts, reports, and remediation backlogs that never quite catch up with the evolving threat landscape

Too Many Alerts

Thousands of vulnerabilities flagged with no business context or clear prioritization.

Expanding Attack Surface

Cloud, remote users, and third-party ecosystems continuously add new exposure points.

No Real Validation

Annual pen tests cannot keep pace with daily changes in the threat landscape.

Reactive Remediation

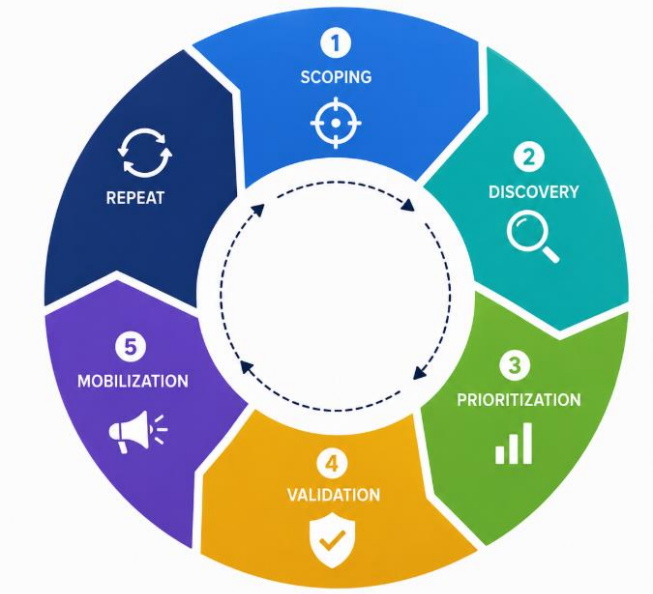
Security teams react to incidents rather than proactively eliminating exposure pathways.

> ***"You don't have a vulnerability problem — you have an exposure visibility problem."***

03 - The Tiraza CTEM Framework

Tiraza CTEM transforms security into a continuous, intelligence-driven risk reduction program. We don't just identify vulnerabilities — we prioritize, validate, and eliminate real-world attack paths. The framework is Gartner-aligned and built around five core stages operating as a continuous loop.

> ***The CTEM Cycle — A Continuous Loop of Risk Reduction: Scoping → Discovery → Prioritization → Validation → Mobilization → (repeat)***

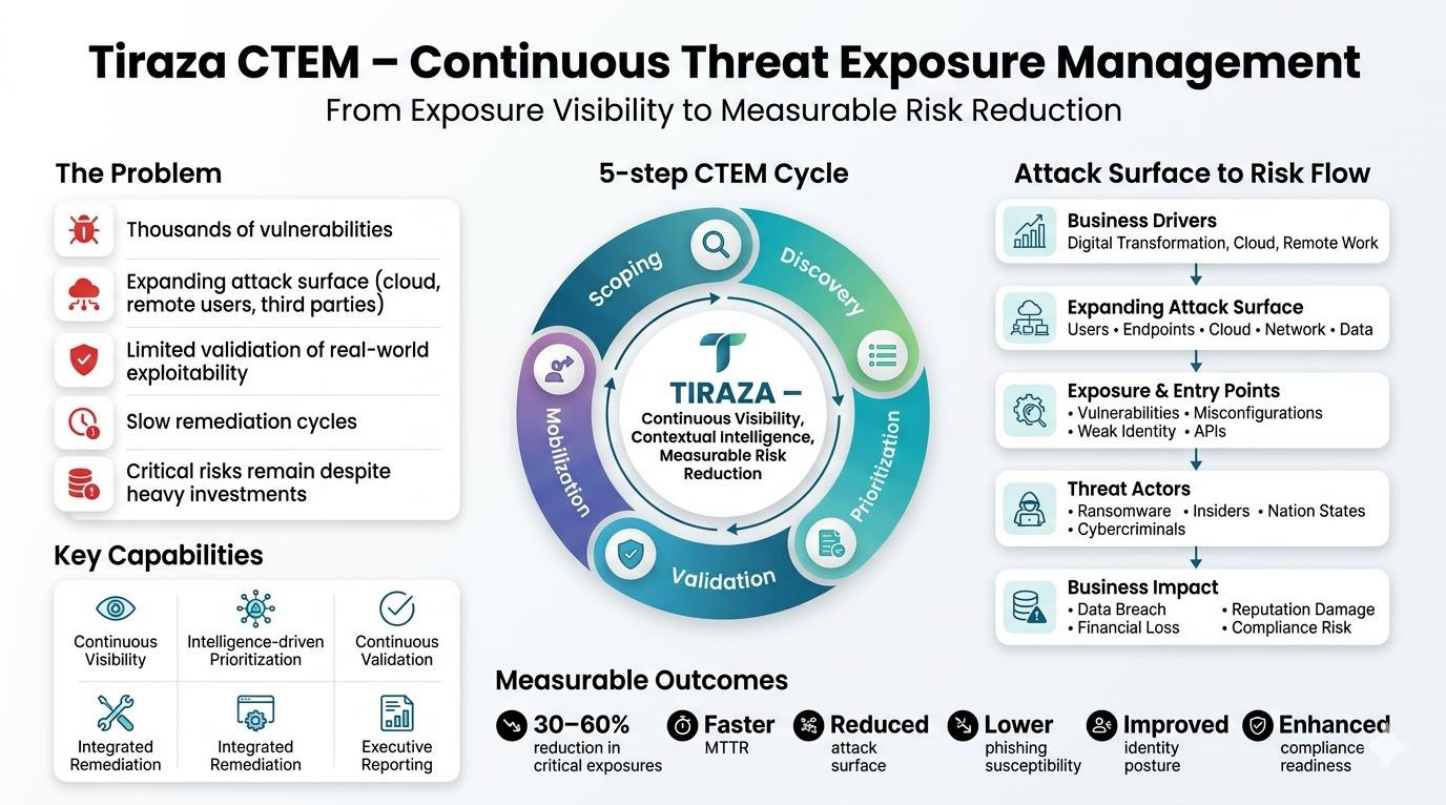


Stage 1 **Scoping — Define What Matters Most**	**What Tiraza Does:** • Identify critical assets: systems, users, data, and third parties • Map business processes to technology dependencies • Define the full attack surface: internal, external, shadow IT **Key Deliverables:** ✓ Asset inventory & classification ✓ Business risk mapping ✓ Attack surface baseline

Stage 2 **Discovery — Identify Exposure**	**What Tiraza Does:** • Continuous vulnerability scanning (internal + external) • Identity exposure analysis: IAM gaps, MFA gaps • Misconfiguration detection across cloud, endpoints, and network • Dark web and threat intelligence monitoring **Key Deliverables:** ✓ Exposure register (beyond just vulnerabilities) ✓ Identity risk posture report ✓ External attack surface report
Stage 3 **Prioritization — Focus on Real Risk**	**What Tiraza Does:** • Contextual risk scoring: asset criticality, real-world exploitability, threat intelligence • Map exposures to business impact, compliance risk, and likely attack paths • Business impact alignment — not CVSS scores alone **Key Deliverables:** ✓ Risk-prioritized remediation backlog ✓ Attack path analysis ✓ KPI/KRI dashboards
Stage 4 **Validation — Prove Exploitability**	**What Tiraza Does:** • Continuous penetration testing (not an annual checkbox) • Breach & attack simulation (BAS) • Red team / adversary simulation • Phishing simulations & human risk testing **Key Deliverables:** ✓ Validated exposure reports ✓ Exploit chains and lateral movement paths ✓ Human risk scoring
Stage 5 **Mobilization — Drive Remediation**	**What Tiraza Does:** • Remediation orchestration with IT/DevOps integration • Patch & configuration management alignment • Security control improvements • Governance and reporting cadence **Key Deliverables:** ✓ Remediation tracking dashboard ✓ SLA-based risk reduction metrics ✓ Continuous improvement roadmap

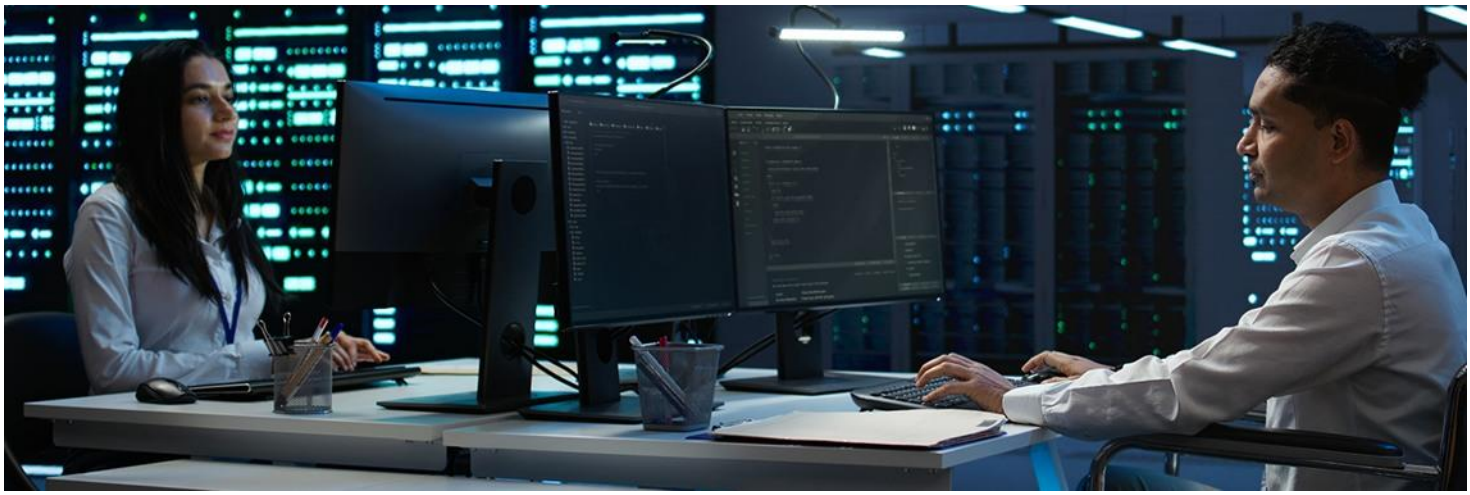
04 - CTEM Visual Overview

The diagram below illustrates how Tiraza's CTEM approach transforms a complex and expanding attack surface into a structured, continuous cycle of risk reduction — connecting assets, exposures, and threat pathways to measurable business outcomes.



05 - Core Capabilities

Tiraza delivers a comprehensive set of capabilities designed to provide continuous visibility, intelligence-driven risk prioritization, real-world threat validation, and integrated remediation execution. By combining technology, threat intelligence, and operational alignment, Tiraza ensures organizations not only identify exposures but effectively reduce them in a measurable and sustainable manner.



Continuous
Unified view across endpoints, cloud, network, and identity for complete exposure visibility at all times.

Intelligence-Driven Prioritization
Focus on what attackers can actually exploit, powered by real-world threat intelligence - not CVSS alone.

Continuous Validation
Go beyond annual testing with real-world attack simulation and human + system risk validation.

Integrated Remediation
Align with IT operations, track remediation to closure, and measure risk reduction with SLA accountability.

Threat Intelligence Integration
Real-world exploit tracking and industry-specific threats including healthcare-focused intelligence feeds.

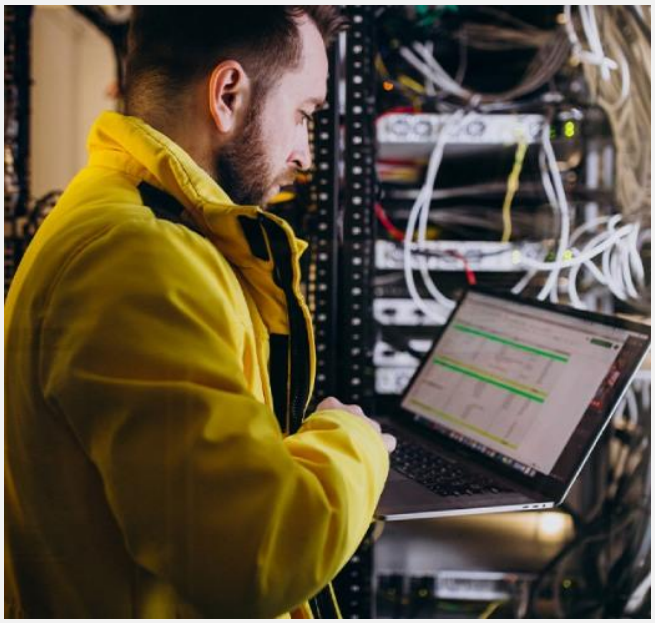
Executive Reporting & Governance
KPI/KRI dashboards, board-ready reporting, and quarterly risk posture reviews for leadership visibility.

06 - Tiraza Differentiation

Most vendors stop at tools and alerts. Tiraza stands apart by focusing not just on identifying risk, but on validating and reducing real-world exposure. By combining continuous monitoring, threat intelligence, and operational execution, Tiraza bridges the gap between security insights and measurable outcomes.

What Others Do

✓ Report risk — Tiraza reduces it
✓ Identify vulnerabilities without business context
✓ Annual assessments that quickly become stale
✓ Alert fatigue with no clear path to remediation



What Tiraza Delivers

✓ Exposure to Validation to Resolution lifecycle
✓ Real-world exploitability focus — not just scan results
✓ Healthcare & compliance aligned (HIPAA-ready)
✓ Human + technology risk integration
✓ Embedded into operations — not just tools

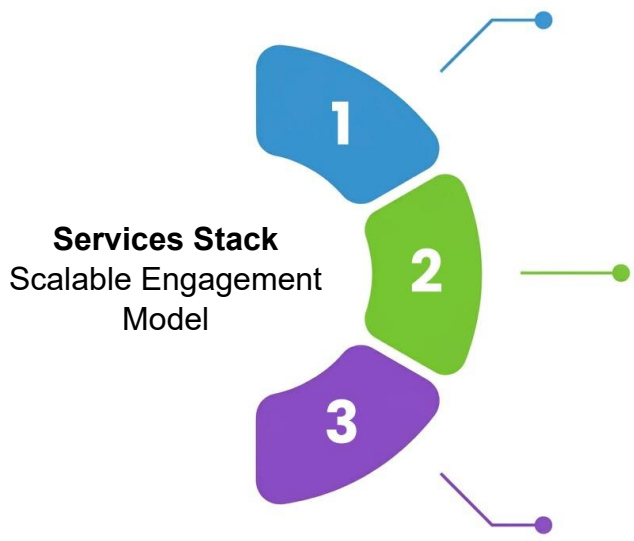
From Exposure to Resolution
Not just identifying risks - actually reducing them. Tiraza owns the full lifecycle from discovery to verified fix.

Healthcare-Centric CTEM
HIPAA-aligned exposure management with patient data protection focus and clinical system risk mapping.

Operational Integration
Works with existing IT teams. Embedded into workflows (ITSM, Jira, etc.) - not an overlay that creates friction.

07 - Services Stack — Scalable Engagement Model

Tiraza's CTEM services are designed as a scalable, modular stack — allowing organizations to start with core visibility and progressively advance toward full-spectrum exposure management. Tiraza adapts to an organization's maturity, delivering measurable risk reduction at every stage.



CTEM Core

✓ Continuous discovery & monitoring
✓ Risk-based prioritization engine
✓ Executive dashboards & KPI reporting

CTEM Advanced

✓ Continuous penetration testing
✓ Breach & attack simulation (BAS)
✓ Identity threat management

CTEM Enterprise

✓ Full remediation orchestration
✓ Governance, Risk & Compliance (GRC)
✓ vCISO advisory & board reporting

08 - Metrics That Matter

Tiraza focuses on metrics that directly reflect real-world risk reduction and operational effectiveness — not just activity. Leadership receives clear, measurable insight into how security efforts are improving resilience over time.

Measurable Outcome	Business Impact
30-60% Reduction in Critical Exposures	Within 2 quarters of engagement start
Faster Mean Time to Remediate (MTTR)	Prioritized, SLA-driven remediation workflows reduce response time significantly
Reduced Attack Surface	Fewer entry points, systematically eliminated through continuous exposure management
Lower Phishing Susceptibility	Stronger human defense through simulations and targeted security awareness programs
Improved Identity Posture	Stronger access controls across users, privileged accounts, and cloud identities
Enhanced Compliance Readiness	Continuous assurance and audit readiness aligned to HIPAA, PCI-DSS, SOC2, and NIST

> ***Success in cybersecurity is no longer defined by the number of vulnerabilities identified — but by how effectively and consistently exposure is reduced over time.***

09 - Attack Surface to Risk Flow

Modern business drivers — digital transformation, remote work, cloud adoption, and third-party ecosystems — continuously expand the attack surface. Tiraza CTEM reduces risk at every layer of this flow, from initial exposure identification through to verified remediation.

Business Drivers	**Digital Transformation • Remote Work • Cloud Adoption • Third-Party Ecosystem • Data Everywhere**
Expanding Attack Surface	Users • Endpoints • Cloud • Network • Data • Third Parties
Exposures & Entry Points	Vulnerabilities • Misconfigurations • Weak Identities & Access • Unpatched Systems • Insecure Applications
Threat Actors	Ransomware Groups • Insiders • Nation State Actors • Cyber Criminals • Script Kiddies
Business Impact	Data Breach • Financial Loss • Operational Disruption • Reputation Damage • Compliance Penalties

> ***Tiraza CTEM reduces risk at every layer — for a stronger, more resilient organization***

10 - Conclusion

In today's dynamic threat landscape, cybersecurity can no longer rely on periodic assessments or reactive controls. Organizations need a continuous, intelligence-driven approach that not only identifies risk, but actively reduces it in alignment with business priorities. Continuous Threat Exposure Management (CTEM) provides this foundation, shifting security from a fragmented set of tools and activities into a cohesive, outcome-driven operating model.

Tiraza enables this transformation by combining continuous visibility, contextual risk prioritization, real-world validation, and integrated remediation into a single, scalable framework. The result is not just improved security posture, but measurable, sustained reduction in exposure, enhanced compliance readiness, and stronger organizational resilience.

The Tiraza CTEM Commitment

- The engine that runs the CTEM operating model
- The partner that executes it day-to-day
- The advisor that continuously helps you improve it

What CTEM Is

✓ An operating model, not just a tool

✓ A continuous cycle of risk reduction

✓ Business-aligned security outcomes

✓ A strategic partnership for long-term resilience

What Tiraza Provides

✓ Proactive security that anticipates threats

✓ Real-world validation before attackers exploit gaps

✓ Clear KPIs and board-ready reporting

✓ Scalable from SMB to enterprise healthcare

> ***"Cybersecurity is no longer about preventing breaches — it's about continuously reducing exposure. Partner with Tiraza to operationalize CTEM and build a continuously resilient security posture."***

11 - About Tiraza

Tiraza is a cyber resilience advisory and security solutions firm focused on helping organizations strengthen their security posture and operational resilience. We combine deep technical expertise with strategic business alignment to deliver security programs that work in the real world.

Cyber Risk Assessments
Identify gaps before attackers do

CTEM Program Delivery
Continuous exposure management — end to end

Penetration Testing
Validate your defenses under real conditions

GRC Advisory
Governance, Risk & Compliance alignment

vCISO Services
Executive security leadership on demand

Healthcare Security
HIPAA-aligned resilience programs

Incident Response
Rapid containment and forensic investigation

Security Monitoring
24/7 SIEM and SOC capabilities

Cloud Security
CSPM, identity governance, and SaaS protection

Get in Touch

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Contact Tiraza to learn how to operationalize CTEM and build a continuously resilient security posture