

THE CISO'S 2027 PLAYBOOK

Sovereign AI Resilience & Quantum-Proof Identity

Building the Apex Architecture for Non-Linear Threat Convergence

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Sovereign AI Resilience & Quantum-Proof Identity



\$823B
Sovereign Cloud Market by 2032



34+
National AI Strategies



2035
NIST PQC Disallowance

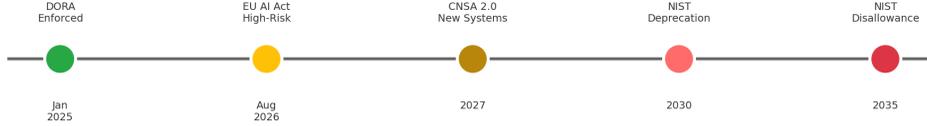


4 hrs
DORA Incident Reporting

THE APEX ARCHITECTURE™



REGULATORY COMPLIANCE TIMELINE



UQRI™ MATURITY MODEL



C.A.R.E.™ FRAMEWORK



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Executive Summary

The convergence of AI Nationalism and Post-Quantum Cryptography creates an unprecedented strategic inflection point for financial services organizations. This whitepaper presents the Apex Architecture—a unified framework for achieving sovereign AI resilience and quantum-proof identity within regulatory constraints imposed by DORA, NIS2, the EU AI Act, and emerging NIST CNSA 2.0 requirements.

THE APEX IMPERATIVE

Organizations that treat quantum migration and AI sovereignty as isolated 2028 problems will find themselves architecturally constrained and regulatorily exposed. The window for proactive preparation closes within months as NIST finalizes deprecation timelines and the EU AI Act's high-risk provisions become enforceable in August 2026.

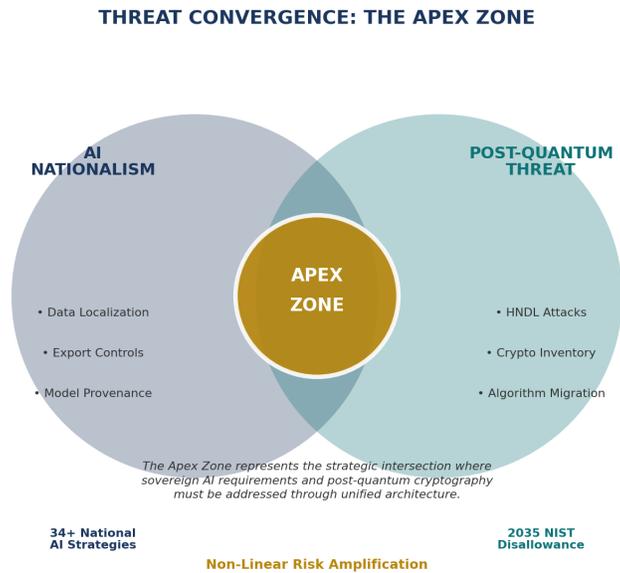
Key Statistics Dashboard

Metric	Current State	2027 Target	Strategic Impact
Sovereign Cloud Market	\$154B (2025)	\$823B (2032)	434% Growth
National AI Strategies	34+ Countries	50+ Expected	Fragmented Compliance
NIST PQC Deprecation	Standards Released	2030 Deprecation	Migration Window Closing
DORA Penalties	2% Annual Turnover	Active Enforcement	Board Accountability
EU AI Act High-Risk	August 2026	Mandatory Conformity	AIBOM Required

Part I: The Strategic Threat Landscape

Threat Convergence: The Apex Zone

The intersection of AI Nationalism and Post-Quantum Cryptography creates non-linear risk amplification that traditional security frameworks fail to address. Organizations must recognize these as coupled threats requiring unified architectural response.



AI Nationalism: The New Geopolitical Reality

Thirty-four countries have implemented national AI strategies, each imposing distinct requirements for data residency, model provenance, and computational sovereignty. The regulatory landscape fragments further with the EU AI Act (enforcement August 2026), Vietnam AI Law (March 2026), and expanding US export controls under ECCN 4E091.

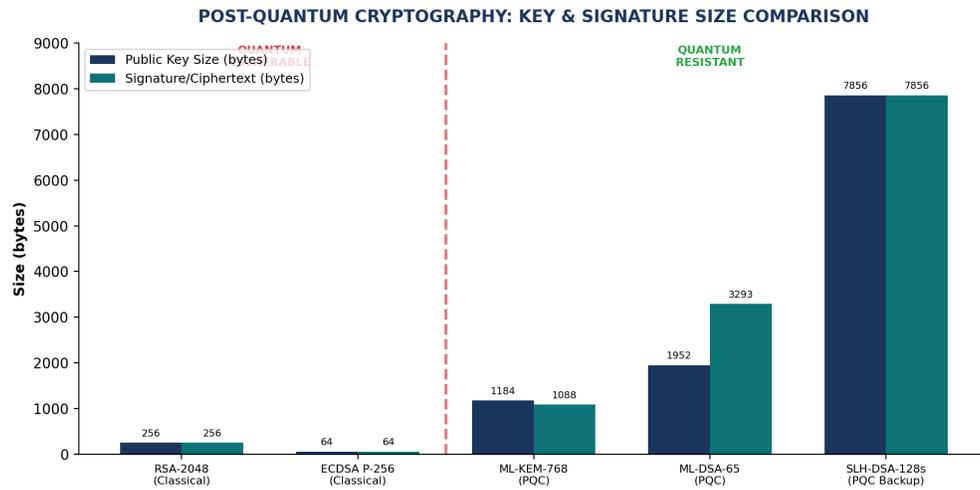
Regulation	Jurisdiction	Key Requirement	Effective Date
EU AI Act	European Union	High-risk AI conformity assessment	August 2026
Executive Order 14365	United States	AI diffusion controls, model weights	2024-2025
Vietnam AI Law	Vietnam	Local deployment mandate	March 2026
PIPL + AI Regulations	China	Data localization, algorithm filing	In Force
Digital Markets Act	European Union	Interoperability requirements	In Force

Post-Quantum Cryptography: The Cryptographic Reset

NIST finalized the first Post-Quantum Cryptography standards in August 2024: ML-KEM (FIPS 203) for key encapsulation, ML-DSA (FIPS 204) for digital signatures, and SLH-DSA (FIPS 205) as a backup hash-based signature scheme. HQC was selected as a fifth standard in March 2025. The deprecation timeline is clear: classical algorithms deprecated by 2030, disallowed by 2035.

HARVEST NOW, DECRYPT LATER (HN DL)

Nation-state adversaries are actively collecting encrypted communications today for future decryption using cryptographically relevant quantum computers. Data with long-term confidentiality requirements—M&A transactions, intellectual property, national security communications—faces immediate exposure risk despite current encryption.

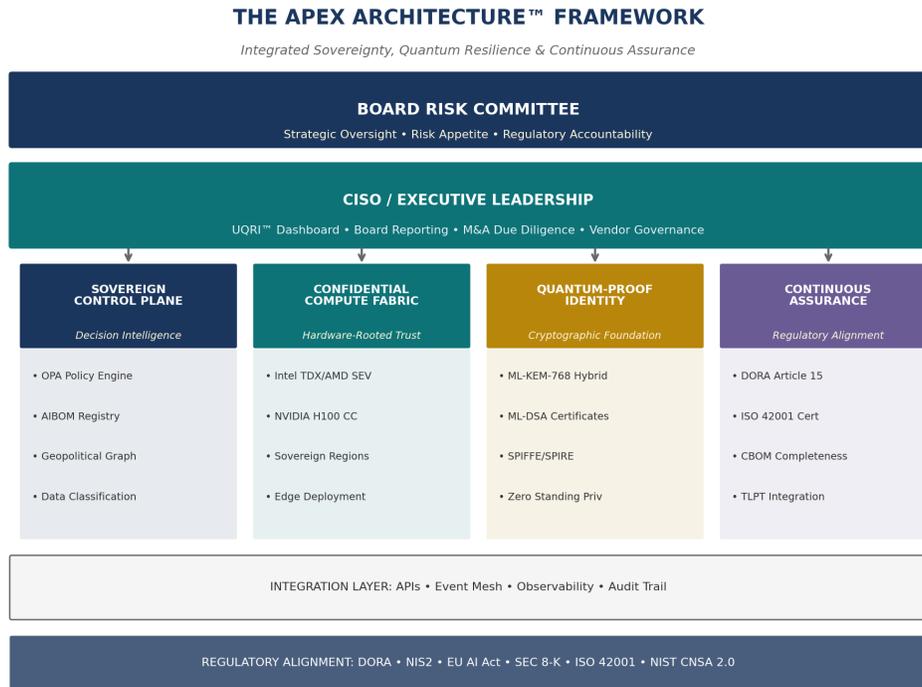


NIST PQC Algorithm Specifications

Algorithm	Standard	Use Case	Public Key	Signature/CT
ML-KEM-512	FIPS 203	Key Encapsulation	800 bytes	768 bytes
ML-KEM-768	FIPS 203	Key Encapsulation	1,184 bytes	1,088 bytes
ML-KEM-1024	FIPS 203	Key Encapsulation	1,568 bytes	1,568 bytes
ML-DSA-44	FIPS 204	Digital Signatures	1,312 bytes	2,420 bytes
ML-DSA-65	FIPS 204	Digital Signatures	1,952 bytes	3,293 bytes
ML-DSA-87	FIPS 204	Digital Signatures	2,592 bytes	4,595 bytes
SLH-DSA	FIPS 205	Backup Signatures	Variable	Variable (large)

Part II: The Apex Architecture Framework

The Apex Architecture comprises four integrated pillars that collectively address the Sovereignty-Cryptography Nexus: Sovereign Control Plane, Confidential Compute Fabric, Quantum-Proof Identity, and Continuous Assurance.



Pillar 1: Sovereign Control Plane

The Sovereign Control Plane provides centralized governance over AI services, data access, geographic routing, and regulatory policy enforcement. Operating as a decision engine above infrastructure, it intercepts every inference request, evaluates against a Geopolitical Policy Graph, and routes to appropriate compute nodes based on data classification, user jurisdiction, and regulatory constraints.

Component	Function	Technology	Regulatory Alignment
Policy Engine	Real-time policy evaluation	Open Policy Agent (OPA)	DORA Article 7
AIBOM Registry	AI model inventory & provenance	Custom + SPDX	EU AI Act Article 11
Geopolitical Graph	Jurisdiction routing logic	Neo4j + Custom Rules	GDPR, PIPL, DMA
Classification Service	Data sensitivity tagging	ML-based + Rules	ISO 27001
Audit Trail	Immutable decision logging	Blockchain/Merkle	DORA Article 15

Pillar 2: Confidential Compute Fabric

The Confidential Compute Fabric enables AI workloads to execute across on-premises infrastructure, sovereign cloud regions, and public cloud environments while maintaining consistent governance. Hardware-rooted trust through Trusted Execution Environments (TEEs) ensures data remains encrypted in use.

Technology	Vendor	Capability	Use Case
Intel TDX	Intel	VM-level isolation	Sovereign cloud regions
AMD SEV-SNP	AMD	Memory encryption + integrity	Multi-tenant isolation
NVIDIA H100 CC	NVIDIA	GPU confidential compute	AI inference protection
ARM CCA	ARM	Realms for edge devices	Edge AI deployment
Azure Confidential	Microsoft	Managed TEE service	Regulated workloads

Pillar 3: Quantum-Proof Identity

Quantum-Proof Identity establishes certificate and key infrastructure capable of supporting both classical and post-quantum algorithms during the migration period. The architectural approach implements hybrid cryptography where X25519 (classical) and ML-KEM-768 (post-quantum) operate in parallel, requiring an attacker to break both algorithms.

Component	Classical	PQC Hybrid	Pure PQC
TLS Key Exchange	ECDH P-256	X25519 + ML-KEM-768	ML-KEM-768
Certificate Signing	RSA-2048/ECDSA	RSA + ML-DSA	ML-DSA-65
Identity Provider	SAML/OIDC + RSA	Hybrid Certificates	PQC-Native SPIFFE
Machine Identity	SPIFFE/SPIRE	Hybrid SVID	PQC SVID
HSM Support	PKCS#11	PQC-Ready HSMs	CNSA 2.0 Compliant

Pillar 4: Continuous Assurance

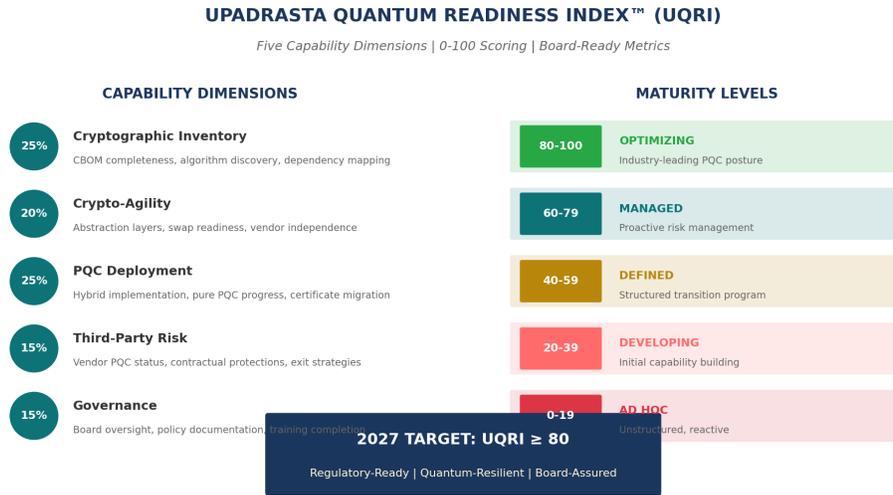
Continuous Assurance ensures ongoing regulatory compliance through automated reporting, control testing, and threat-led penetration testing integration. This pillar directly addresses DORA Article 15 incident reporting requirements and EU AI Act conformity assessment mandates.

Requirement	Deadline	Artifact	Frequency
DORA Initial Notification	4 hours	Incident type, affected services, impact	Per incident
DORA Intermediate Report	72 hours	Root cause analysis, recovery status	Per incident
DORA Final Report	30 days	Complete post-incident review	Per incident
ISO 42001 Surveillance	Annual	AI management system audit	Yearly
CBOM Attestation	Quarterly	Cryptographic inventory verification	Quarterly

Part III: Proprietary Frameworks

The Upadrasta Quantum Readiness Index™ (UQRI)

The UQRI provides a standardized, board-ready metric for quantum migration maturity. Comprising five weighted capability dimensions, the index enables objective progress tracking and peer benchmarking across the financial services sector.



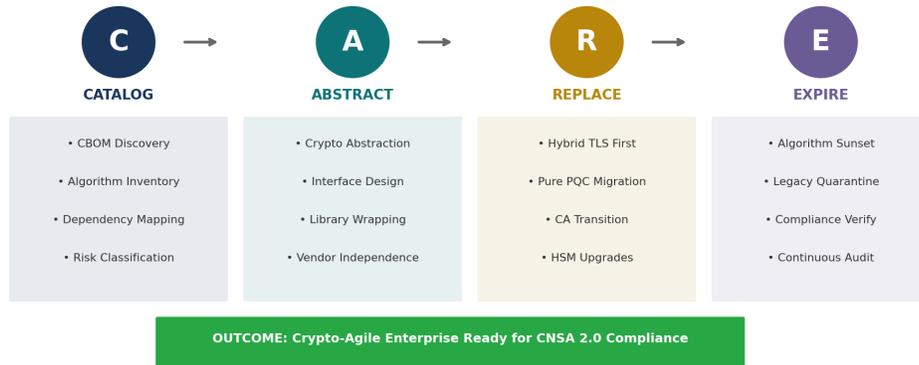
Dimension	Weight	Ad Hoc (0-19)	Managed (60-79)	Optimizing (80-100)
Cryptographic Inventory	25%	Partial discovery	Automated CBOM	Real-time visibility
Crypto-Agility	20%	Hardcoded crypto	Abstraction layers	Hot-swap capable
PQC Deployment	25%	No PQC	Pilot hybrid TLS	Production PQC
Third-Party Risk	15%	Unknown status	Vendor assessed	Contractual PQC
Governance	15%	Ad hoc oversight	Formal program	Board-integrated

The C.A.R.E.™ Framework

The Cryptographic Algorithm Replacement Execution (C.A.R.E.) framework provides a structured methodology for migrating from quantum-vulnerable to quantum-resistant cryptography across enterprise systems.

THE C.A.R.E.™ FRAMEWORK

Cryptographic Algorithm Replacement Execution



Phase	Duration	Key Activities	Deliverables	Exit Criteria
Catalog	3-6 months	CBOM discovery, algorithm inventory	Complete CBOM	100% asset coverage
Abstract	6-9 months	Crypto abstraction, library wrapping	Abstraction layer	Hot-swap tested
Replace	12-18 months	Hybrid TLS, certificate migration	PQC certificates	Production hybrid
Expire	6-12 months	Algorithm sunset, legacy quarantine	Compliance attestation	Zero classical

Part IV: Regulatory Compliance Framework



REGULATORY COMPLIANCE CONTROL MAPPING

REQUIREMENT	DORA	NIS2	EU AI ACT	SEC 8-K	APEX CONTROL
ICT Risk Framework	●	●	○	●	Sovereign Control Plane
Incident Reporting	●	●	○	●	Continuous Assurance
Third-Party Oversight	●	●	●	○	Vendor Registry + SBOM
Board Accountability	●	●	○	●	UQRI Dashboard
Crypto Inventory	●	○	○	○	CBOM + C.A.R.E.
AI System Registry	○	○	●	○	AIBOM + Classification
Penetration Testing	●	●	○	○	TLPT Integration
Recovery Capabilities	●	●	○	●	Resilience Testing

● Primary Requirement
 ○ Indirect/Partial

DORA Compliance Requirements

The Digital Operational Resilience Act (DORA) imposes comprehensive ICT risk management obligations on financial entities operating within the EU. Article 5 establishes direct board accountability for ICT risk management, while Article 7 mandates continuous monitoring and testing.

DORA Article	Requirement	Apex Architecture Response	Penalty Risk
Article 5	Board ICT risk accountability	UQRI Dashboard, quarterly reviews	2% annual turnover
Article 7	ICT risk management framework	Sovereign Control Plane policies	2% annual turnover
Article 15	Incident reporting (4hr/72hr/30d)	Continuous Assurance automation	Per incident fines

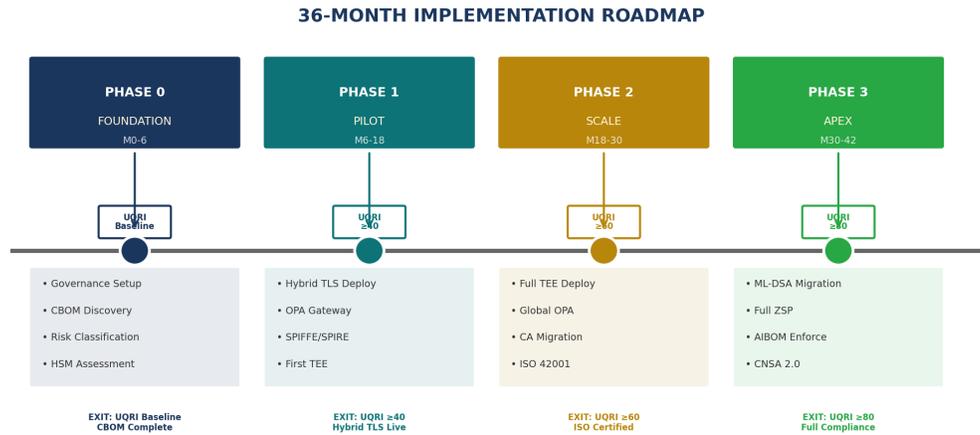
Article 26	Third-party ICT oversight	Vendor Registry + SBOM/CBOM	Regulatory action
Article 28	Exit strategies	Multi-cloud portability	Concentration risk

EU AI Act High-Risk Compliance

The EU AI Act classifies AI systems in credit scoring, insurance underwriting, and employment decisions as high-risk under Annex III. These systems require conformity assessments, technical documentation, and ongoing monitoring before deployment—effective August 2026.

Requirement	Description	Apex Architecture Control	Documentation
Risk Management	Continuous risk assessment	AIBOM + Classification Service	AI Risk Register
Data Governance	Training data quality	Data Lineage tracking	Data Documentation
Technical Documentation	System description	Automated documentation	Technical File
Record Keeping	Logging requirements	Immutable Audit Trail	Log Archives
Human Oversight	Meaningful human control	Approval workflows	Oversight Procedures

Part V: 36-Month Implementation Roadmap



Phase 0: Foundation (Months 0-6)

Workstream	Activities	Resources	Exit Criteria
Governance	Establish steering committee, define risk appetite	1 FTE + Exec Sponsor	Charter approved
Discovery	CBOM creation, algorithm inventory	3-5 FTE + Tools	95% asset coverage
Assessment	HSM capability review, CA evaluation	2 FTE + Vendor	Gap analysis complete
Planning	Risk prioritization, budget allocation	2 FTE	Roadmap approved

Phase 1: Pilot (Months 6-18)

Workstream	Activities	Resources	Exit Criteria
Hybrid TLS	X25519 + ML-KEM-768 implementation	4-6 FTE + Vendor	Production traffic
Identity	SPIFFE/SPIRE deployment, hybrid SVIDs	3-4 FTE	Pilot applications
Governance	OPA policy engine, AIBOM registry	2-3 FTE	Policies enforced
Testing	TLPT with PQC scenarios	External + 2 FTE	Vulnerabilities remediated

Phase 2: Scale (Months 18-30)

Workstream	Activities	Resources	Exit Criteria
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TEE Deployment	Full confidential compute fabric	5-7 FTE + Vendor	All sensitive workloads
CA Migration	Enterprise CA PQC upgrade	3-4 FTE + Vendor	Hybrid certificates
Certification	ISO 42001 preparation and audit	2-3 FTE + Auditor	Certification achieved
ZSP	Zero Standing Privileges rollout	4-5 FTE	80% privileged access

Phase 3: Apex (Months 30-42)

Workstream	Activities	Resources	Exit Criteria
ML-DSA Migration	Pure PQC certificate deployment	4-6 FTE	Classical deprecated
Full ZSP	Complete privilege elimination	3-4 FTE	100% coverage
AIBOM Enforcement	Block non-compliant AI models	2-3 FTE	Policy enforced
CNSA 2.0	National security compliance	2 FTE + External	Attestation complete

Part VI: Board Governance Framework

THREE LINES OF DEFENSE: QUANTUM-ERA GOVERNANCE

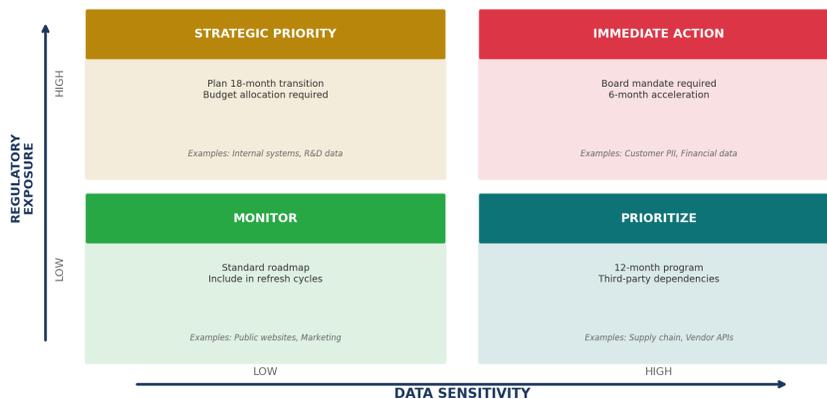


Aligned with DORA Article 5 board accountability requirements

Board Decision Matrix

The Board Decision Matrix provides a framework for prioritizing quantum migration investments based on data sensitivity and regulatory exposure. This tool enables board-level risk-informed resource allocation.

BOARD DECISION MATRIX: QUANTUM MIGRATION URGENCY



Board Accountability Checklist

Category	Question	Required Evidence	Frequency
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Risk Appetite	Is quantum risk quantified in risk appetite?	Board-approved risk statement	Annual
Oversight	Does UQRI appear in board risk dashboard?	Dashboard screenshots	Quarterly
Training	Have directors completed cyber/AI training?	Training certificates	Annual
Third-Party	Is ICT concentration risk monitored?	Vendor risk register	Quarterly
Exit Strategy	Do critical vendors have exit plans?	Exit strategy documents	Annual
Incident Prep	Has board rehearsed DORA reporting?	Tabletop exercise report	Annual

Part VII: M&A Cyber Due Diligence

Quantum-era M&A due diligence requires expanded scope to assess cryptographic posture, AI governance maturity, and regulatory compliance exposure. Traditional cybersecurity due diligence that ignores these dimensions materially understates integration risk and post-merger remediation costs.

M&A CYBER DUE DILIGENCE: QUANTUM-ERA CHECKLIST

CRYPTOGRAPHIC POSTURE	REGULATORY COMPLIANCE
<input type="checkbox"/> CBOM completeness score <input type="checkbox"/> Quantum-vulnerable algorithm count <input type="checkbox"/> PQC migration roadmap status <input type="checkbox"/> Certificate authority PQC readiness	<input type="checkbox"/> DORA gap assessment results <input type="checkbox"/> Incident history (last 24 months) <input type="checkbox"/> Third-party ICT register <input type="checkbox"/> Regulatory correspondence review
AI GOVERNANCE	INTEGRATION RISK
<input type="checkbox"/> AIBOM inventory completeness <input type="checkbox"/> EU AI Act classification status <input type="checkbox"/> Model provenance documentation <input type="checkbox"/> Third-party AI dependencies	<input type="checkbox"/> Architecture compatibility <input type="checkbox"/> Vendor concentration risk <input type="checkbox"/> Exit strategy viability <input type="checkbox"/> Skill gap assessment

Critical for valuation accuracy and post-merger integration success

Valuation Adjustment Framework

Finding	Severity	Typical Adjustment	Remediation Timeline
No CBOM exists	Critical	-3% to -5% EV	12-18 months
No PQC roadmap	High	-2% to -3% EV	18-24 months
EU AI Act non-compliance	Critical	-4% to -6% EV	12-24 months
DORA gaps identified	High	-2% to -4% EV	6-12 months
Vendor concentration >40%	Medium	-1% to -2% EV	12-18 months
HSM not PQC-ready	High	-1% to -3% EV	18-24 months

Part VIII: Case Studies

CASE STUDY RESULTS: APEX ARCHITECTURE IMPLEMENTATION

GLOBAL SYSTEMICALLY IMPORTANT BANK		EUROPEAN INSURANCE GROUP	
€2.3T AUM	Assets Under Management	€180B Premiums	Annual Volume
40+ Jurisdictions	Geographic Scope	12 EU States	Operating Markets
847 Applications	Cryptographic Discovery	Single Model	Multi-Jurisdiction AI
19 → 58	UQRI Score (Month 18)	€4.2M Saved	Annual Efficiency
94%	Certificate Visibility	23%	Latency Reduction

KEY INSIGHT: Organizations achieving UQRI ≥60 within 18 months demonstrate **3x faster regulatory approval and 40% reduction in compliance remediation costs**

Case Study 1: Global Systemically Important Bank

ORGANIZATION PROFILE
€2.3 trillion AUM 40+ operating jurisdictions G-SIB designation 847 applications with cryptographic dependencies 23 Certificate Authorities 156 third-party integrations requiring cryptographic assessment

The organization faced overlapping compliance deadlines: DORA enforcement in January 2025, EU AI Act high-risk provisions in August 2026, and internal board mandate for quantum readiness by 2028. Traditional siloed approaches would have required separate programs with duplicate governance structures.

Metric	Baseline (M0)	Month 6	Month 12	Month 18
UQRI Score	19	28	42	58
CBOM Coverage	12%	67%	89%	94%
Hybrid TLS Enabled	0%	0%	23%	67%
AIBOM Completeness	0%	34%	78%	91%
DORA Article 7 Register	None	Draft	Operational	Audited

Case Study 2: European Insurance Group

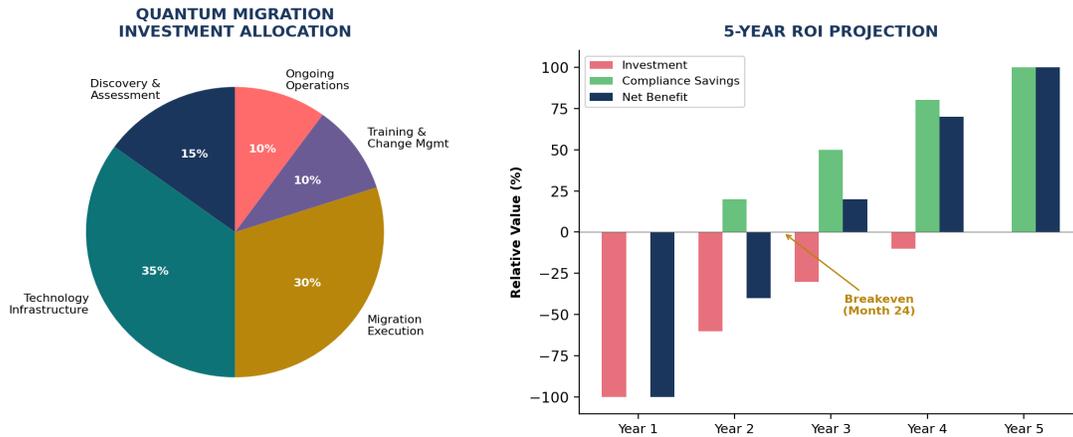
ORGANIZATION PROFILE

€180 billion annual premiums | 12 EU member states | AI-powered claims processing (EU AI Act high-risk) | Multi-jurisdiction data residency requirements | Single platform serving all markets

The insurer's AI claims processing system fell under EU AI Act Annex III Section 5b (insurance underwriting). Operating across 12 EU jurisdictions with varying national implementations required a Sovereign Control Plane capable of enforcing jurisdiction-specific policies while maintaining a single, auditable AI model.

Outcome	Measurement	Business Impact
Single Model Deployment	One model serving all jurisdictions	Eliminated 12 separate compliance programs
Automated Conformity	Real-time documentation generation	73% reduction in compliance FTE
Latency Optimization	23% reduction in inference time	Improved customer experience
Cost Efficiency	€4.2M annual savings	Redirected to innovation
Regulatory Confidence	Pre-audit with national authorities	Zero findings in 3 assessments

Part IX: Investment Framework & ROI



Total Cost of Ownership Model

Category	Year 1	Year 2	Year 3	3-Year Total
Discovery & Assessment	\$2.5M	\$0.5M	\$0.3M	\$3.3M
Technology Infrastructure	\$5.0M	\$3.0M	\$1.5M	\$9.5M
Migration Execution	\$3.0M	\$4.5M	\$2.5M	\$10.0M
Training & Change Mgmt	\$1.0M	\$0.8M	\$0.5M	\$2.3M
Ongoing Operations	\$0.5M	\$1.2M	\$1.7M	\$3.4M
TOTAL	\$12.0M	\$10.0M	\$6.5M	\$28.5M

Value Realization

Benefit Category	Year 1	Year 2	Year 3	3-Year Total
Regulatory Penalty Avoidance	\$0	\$5.0M	\$8.0M	\$13.0M
Operational Efficiency	\$0	\$1.5M	\$3.0M	\$4.5M
Insurance Premium Reduction	\$0	\$0.5M	\$1.0M	\$1.5M
M&A Valuation Premium	\$0	\$0	\$2.0M	\$2.0M
Incident Cost Avoidance	\$0.5M	\$1.5M	\$2.5M	\$4.5M
TOTAL BENEFITS	\$0.5M	\$8.5M	\$16.5M	\$25.5M

Part X: Risk Management

Strategic Risk Register

Risk	Likelihood	Impact	Mitigation Strategy
NIST timeline acceleration	Medium	High	Build 6-month buffer; monitor NIST updates
Export control expansion	Medium	High	Multi-region compute; sovereign options
PQC algorithm vulnerability	Low	Critical	Crypto-agility; no single-algorithm dependency
Third-party provider failure	Medium	High	Diversification; contractual protections
Skills gap in quantum crypto	High	Medium	Training investment; strategic partnerships
HSM upgrade delays	Medium	High	Early vendor engagement; classical fallback

What to Stop Doing

Effective transformation requires stopping activities that consume resources without contributing to quantum-era resilience. The following practices should be systematically eliminated:

Practice to Stop	Reason	Alternative Approach
New classical-only deployments	Accumulates technical debt	Hybrid-by-default policy
Point-solution crypto procurement	Fragments inventory	Enterprise abstraction layer
Manual compliance reporting	Cannot scale to DORA speed	Automated assurance platform
Siloed AI governance	Duplicates effort, misses risks	Unified AIBOM/CBOM approach
Annual-only risk assessments	Too slow for threat evolution	Continuous monitoring
Vendor-locked HSM strategies	Limits crypto-agility	Multi-vendor, API-abstracted

Conclusion: The Apex Imperative

The convergence of AI Nationalism and Post-Quantum Cryptography creates a strategic inflection point that will define competitive positioning for the next decade. Organizations that recognize these as coupled, non-linear threats—and respond with architecturally coherent solutions—will achieve regulatory compliance, operational resilience, and stakeholder confidence that competitors cannot replicate.

THE WINDOW IS CLOSING

NIST's Dustin Moody states: 'We encourage system administrators to start integrating them into their systems immediately, because full integration will take time.' The EU AI Act's high-risk provisions become enforceable in August 2026. DORA is already in force. Organizations that treat quantum migration and AI sovereignty as 2028 problems will find themselves architecturally constrained and regulatorily exposed.

The Apex Architecture presented in this whitepaper provides a proven framework for achieving sovereign AI resilience and quantum-proof identity within a unified implementation. The 36-month roadmap delivers measurable progress through the Upadrasta Quantum Readiness Index™, with clear exit criteria ensuring accountability to Board and regulatory stakeholders.

The institutions that act now will emerge as leaders in the quantum-safe, AI-governed financial ecosystem. Those that delay will face accelerating remediation costs, regulatory scrutiny, and competitive disadvantage.

About the Author

ABOUT THE AUTHOR

KIERAN UPADRASTA

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27 Years

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Kieran Upadrasta brings over 27 years of cybersecurity experience across Big 4 consulting firms (Deloitte, PwC, EY, KPMG) and 21 years in financial services. His expertise spans technical security strategy, architecture, governance, security analysis, threat assessments, and risk management for the world's largest financial institutions.

Mr. Upadrasta has led compliance programs for OCC, SOX, GLBA, HIPAA, ISO 27001, NIST, PCI, and SAS70 across global organizations. His current focus areas include DORA compliance, AI governance (ISO 42001), board-level cyber reporting, and M&A cyber due diligence.

Professional Memberships & Affiliations

Organization	Role	Status
Imperials	Honorary Senior Lecturer	Active
ISACA London Chapter	Platinum Member	Active
ISC ² London Chapter	Gold Member	Active
PRMIA	Cyber Security Programme Lead	Active
ISF Auditors and Control	Lead Auditor	Active
University College London	Researcher	Active

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