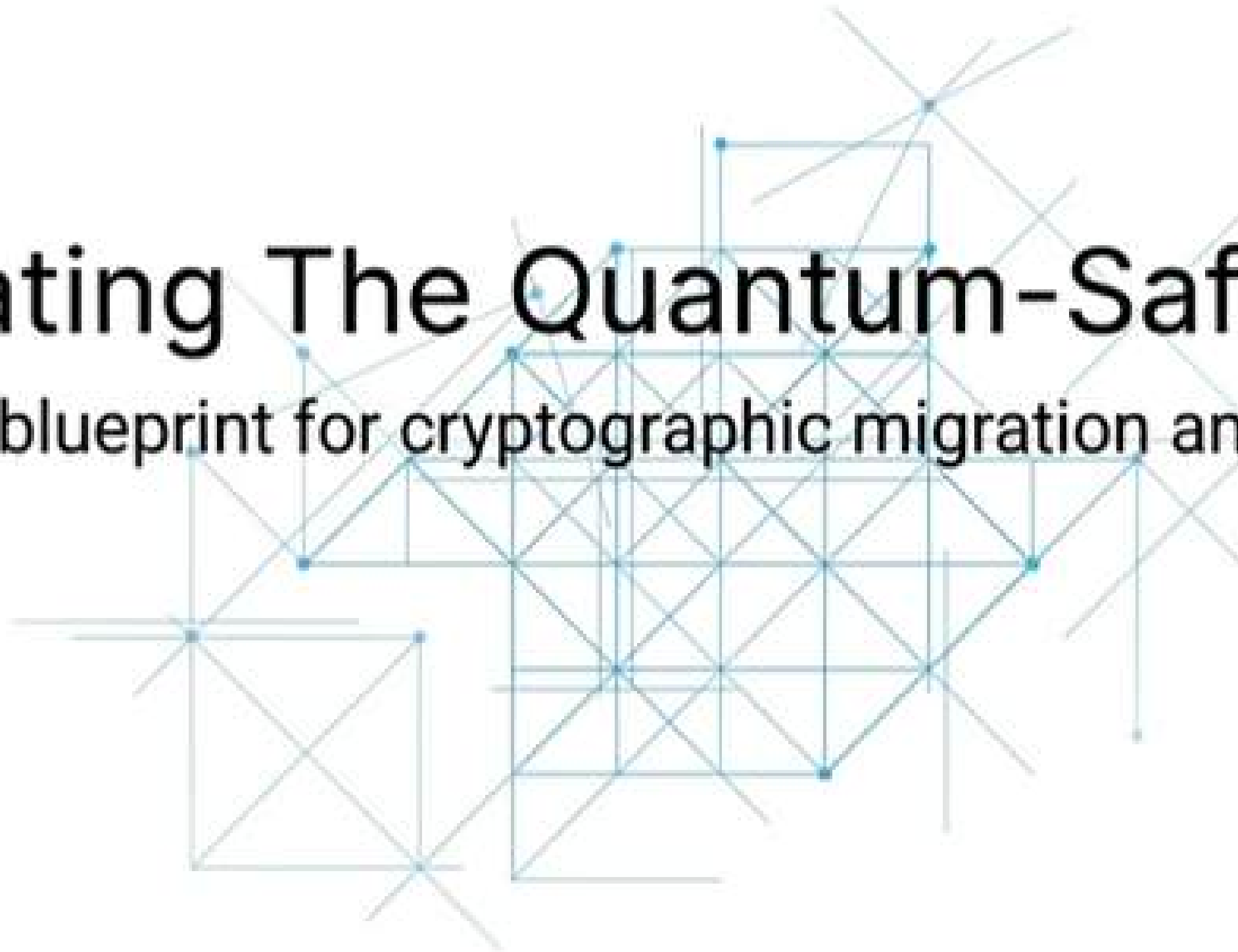


Navigating The Quantum-Safe Future

A strategic blueprint for cryptographic migration and agility.



The Silent Threat: Harvest Now, Decrypt Later

Current day data harvesting



Consider the temporal value of your data. Data that must remain secret for 10, 20, or even 25 years is susceptible to quantum risk today.

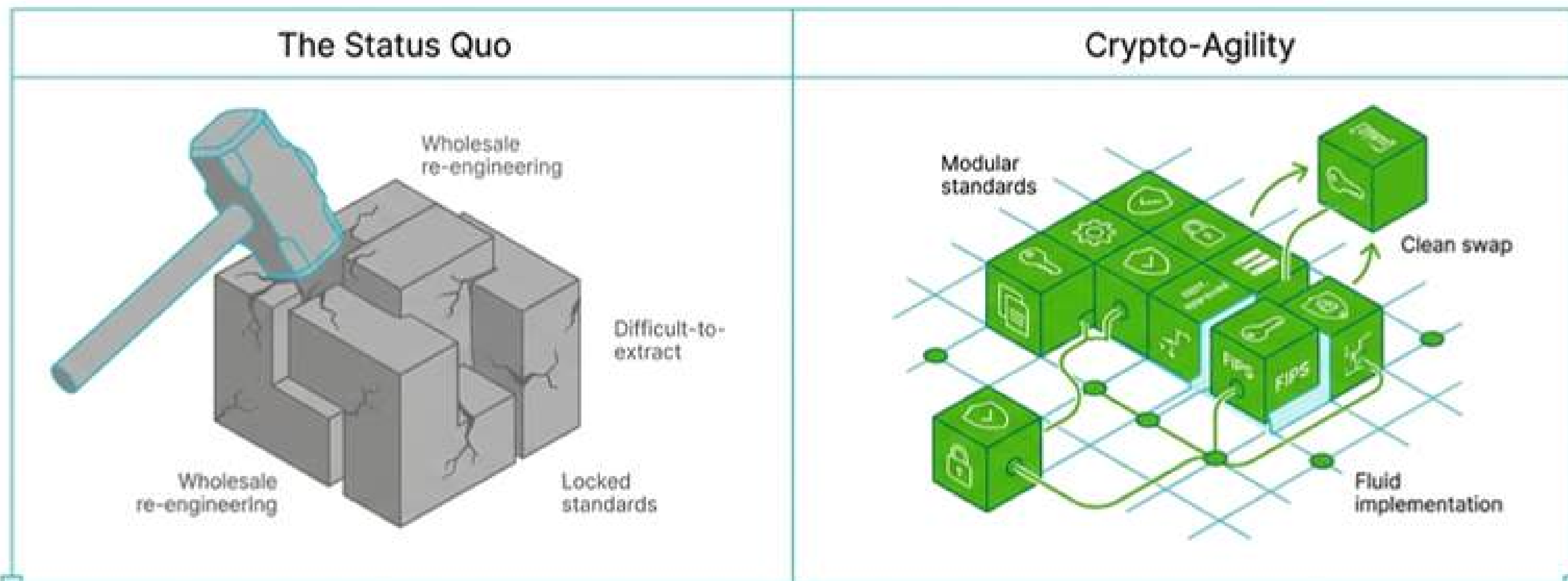
Nascent Quantum
Quantum computing timeline

Qubit Stability & Scaling

Mature Quantum
Cryptanalysis

Stolen long-lifecycle secrets are a present-day business continuity issue.

The Objective: From Static Encryption To Crypto-Agility



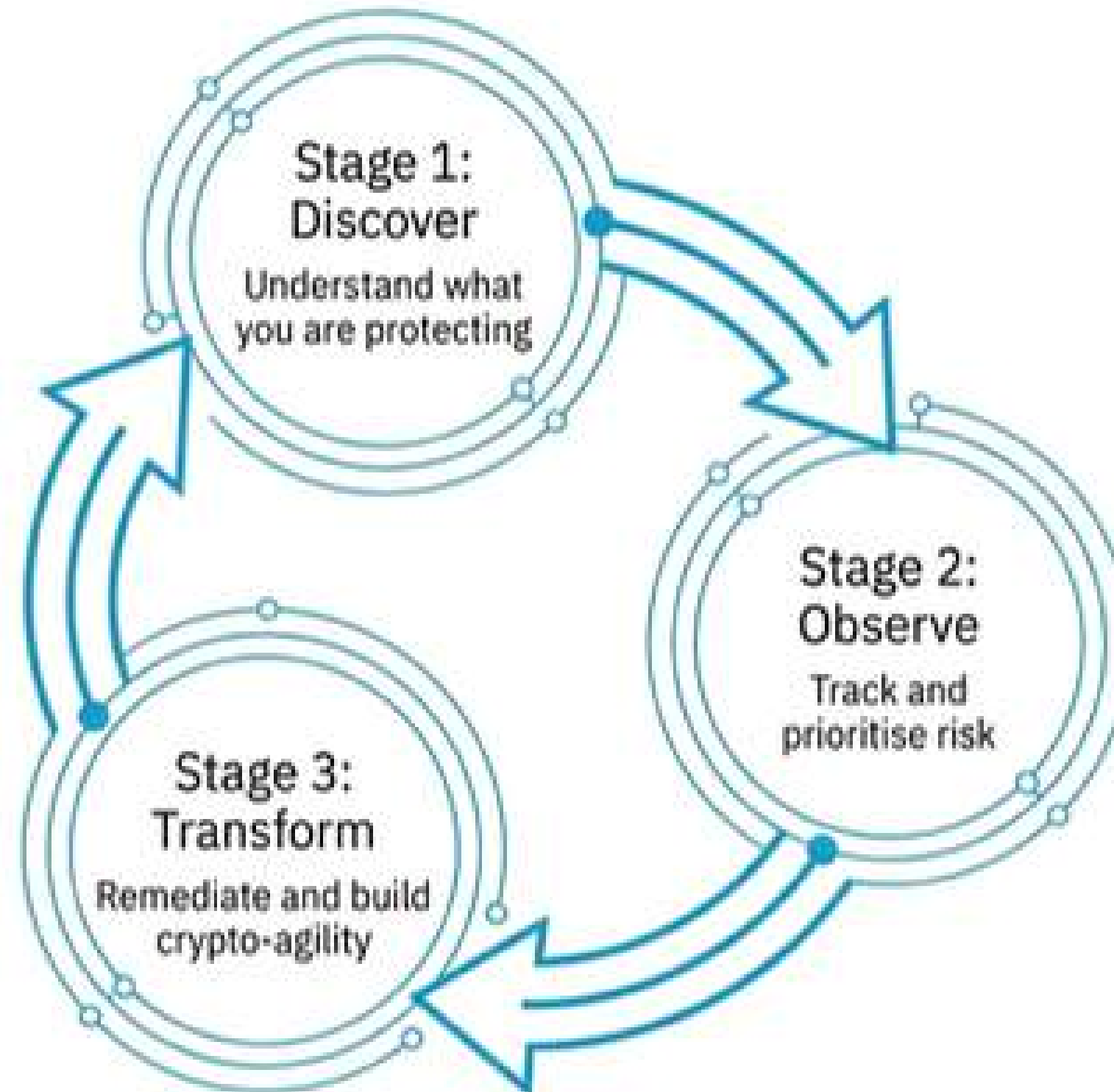
Crypto-agility is the ability to swap out cryptographic standards at speed without wholesale re-engineering.



Builds resilience against the quantum threat and provides a flexible defence against any future potential cryptographic weakness.

IBM Quantum Safe: A Methodical Approach

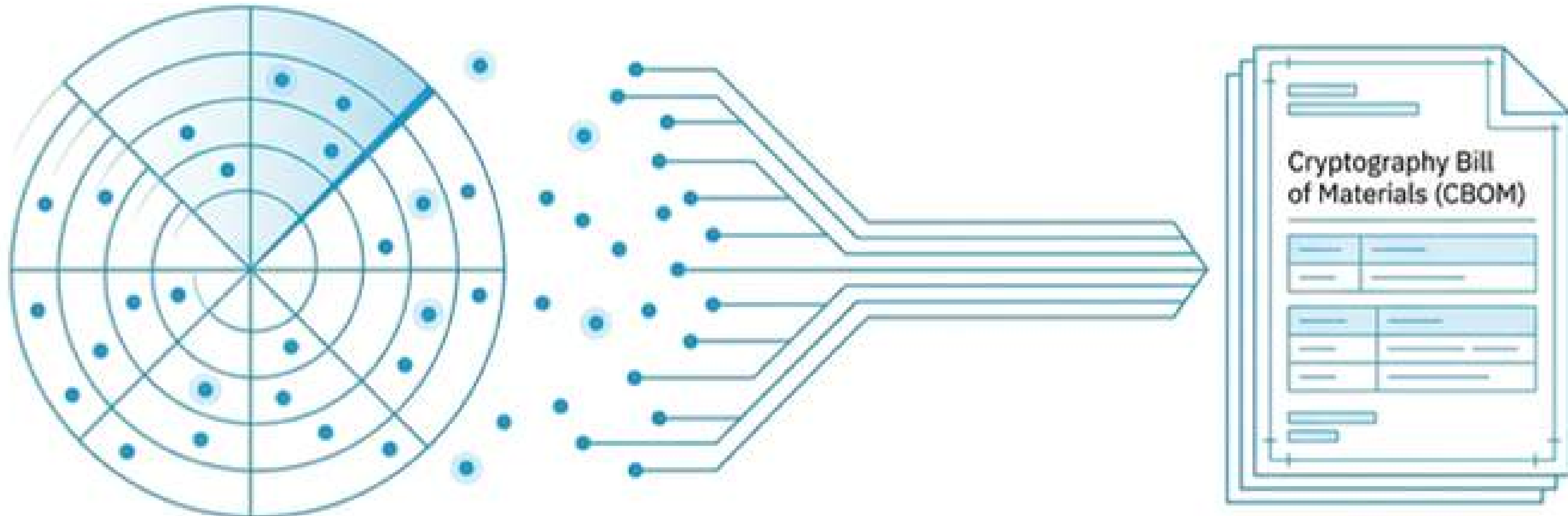
A tooled approach enabling organisations to move from discovery through to full cryptographic transformation.



No quantum computing expertise required to begin.

Stage One: Discover The Unseen

You cannot protect what you cannot see.



Tooling

IBM Quantum Safe Explorer maps cryptographic usage via static scanning and CI/CD pipeline integration.

Deliverable

Generates a complete list of cryptographic assets, algorithms in use, and data protected.

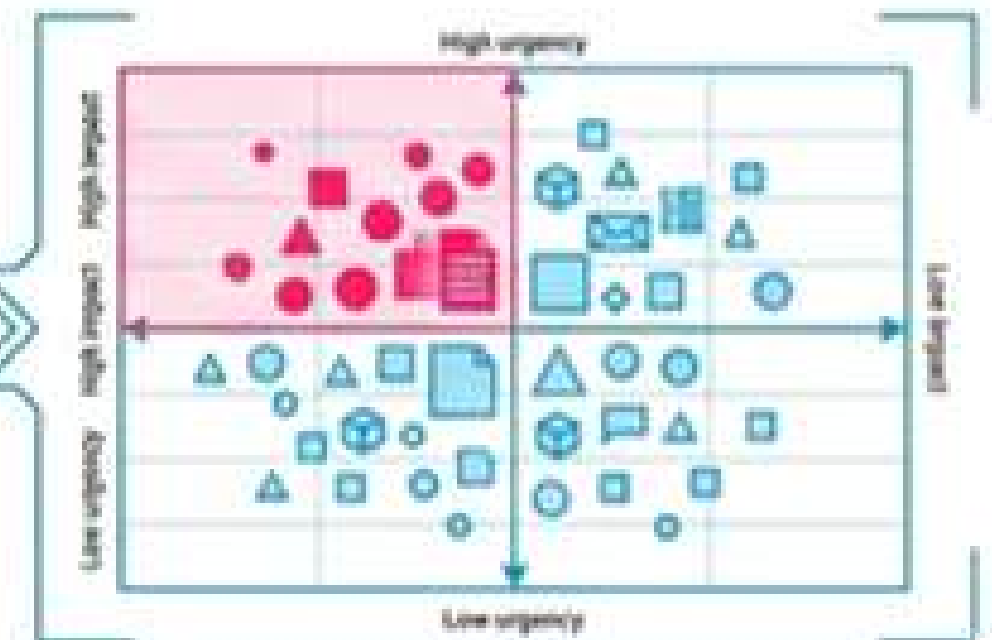
Stage Two: Observe And Prioritise

Discovery is a point-in-time event; cryptographic risk evolves.
Attempting to solve everything at once inundates the business.

IBM Quantum Safe Advisor reintroduces continuous observability via dynamic scanning and cryptographic posture management.

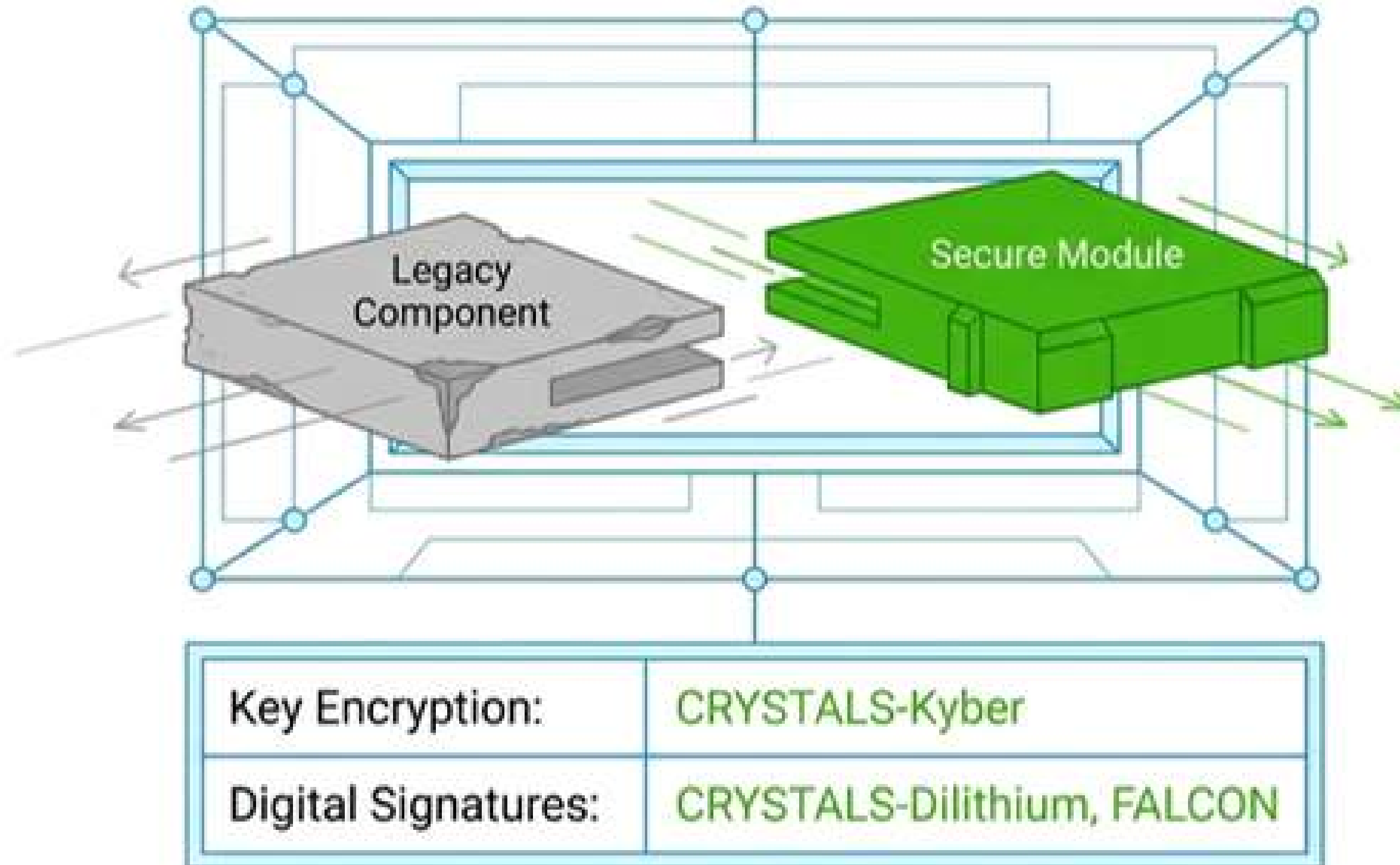


AI-powered risk analysis focuses people and resources on the most at-risk exposures.








Stage Three: Transform And Remediate

IBM Quantum Safe Remediator advances the migration to post-quantum standards while architecting systemic crypto-agility.



The Business Impact: Quantum-Safe Champions Vs. Laggards

	The Laggard	The Quantum-Safe Champion 
Approach	Reactive catch-up	Proactive operational blueprint 
Security Posture	Fragmented	Systemic discipline 
Resilience	Baseline vulnerability	Overall resilience close to 3x greater 
Talent	Status quo	Prioritises new talent at twice the rate 

Strategic Action Matrix: Where To Start Today

Governance & Talent

- **Bring to the board level:** Frame as strategic business continuity and competitive positioning, not IT housekeeping.
- **Invest in talent:** Establish an internal quantum-safe centre of excellence.

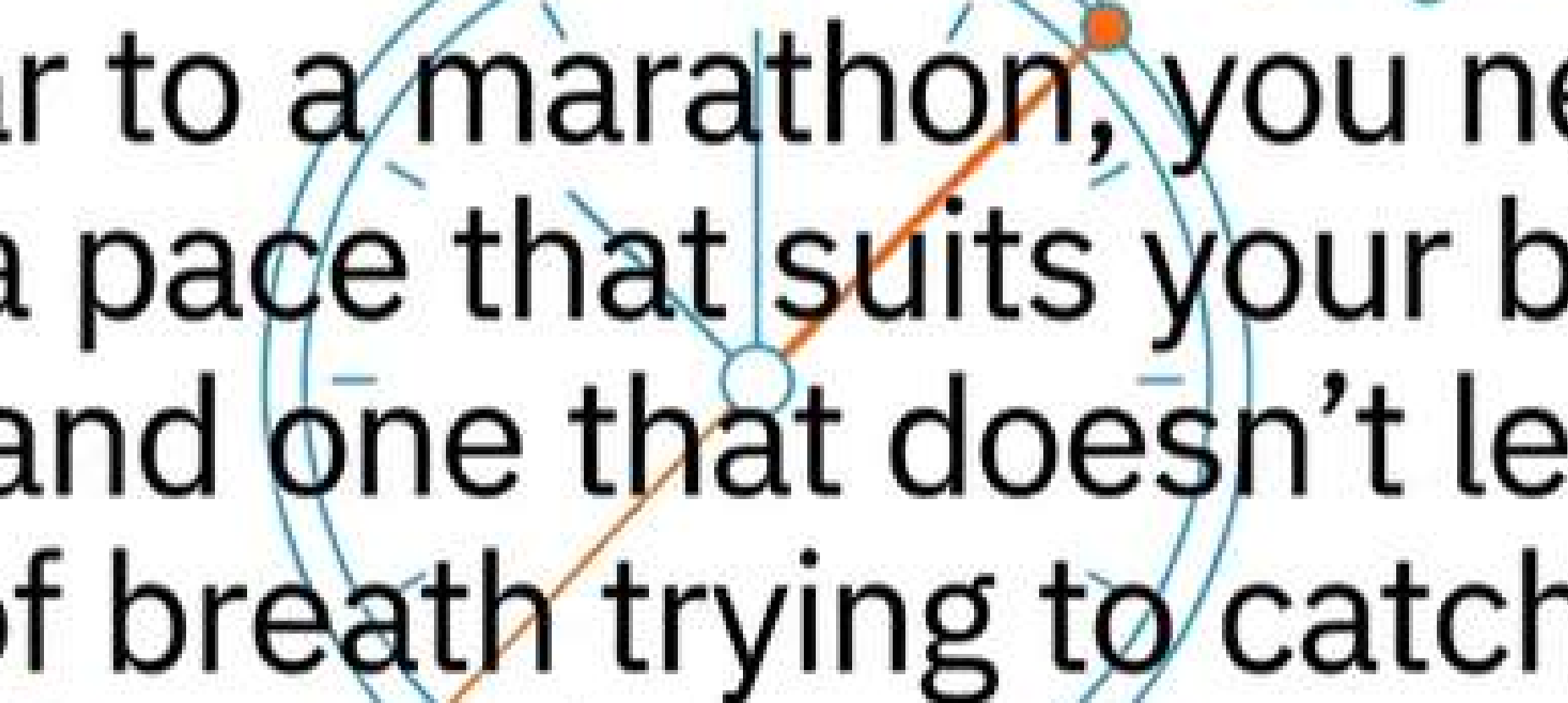
Technology & Data

- **Hire a discovery exercise:** Generate a CBOM to understand current exposure.
- **Assess temporal value:** Prioritise data needing 10 to 25 years of secrecy.
- Establish a crypto-agility plan.

Ecosystem

- **Involve the supply chain:** Security is only as strong as the weakest link. Demand quantum-safe roadmaps from major vendors and partners.

The Quantum Clock Is Ticking



“Similar to a marathon, you need to choose a pace that suits your business goals — and one that doesn’t leave you out of breath trying to catch up.”

IBM Quantum Safe offers the tools, expertise, and roadmap to help make the journey manageable. A bit of preparation today secures your cryptographic future tomorrow.