

Supervising AI in Finance



From Policy Principles to Practical Controls

Strengthening trust, control and accountability in financial AI

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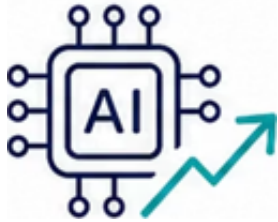
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AI Is No Longer a Future Issue in Finance

AI is already embedded in financial operations — making trust, control and accountability central to supervision.

AI is already inside your institution



75% of financial firms are already using or testing AI

AI is no longer in the lab — it is already influencing credit decisions, fraud detection, compliance monitoring and customer interactions.

The risks are real — and governance is still catching up



Only **12%** of firms have formal AI risk governance frameworks in place

AI risk is widening — from explainability and bias to data quality, cyber exposure and third-party dependency.

Supervisors are raising the bar — fast



Global expectations are moving toward stronger AI governance, resilience and accountability.

The shift is clear: from AI principles to evidenced governance, testing, monitoring and accountability.



Supervisory Shift



AI experimentation



AI adoption



AI operational dependency

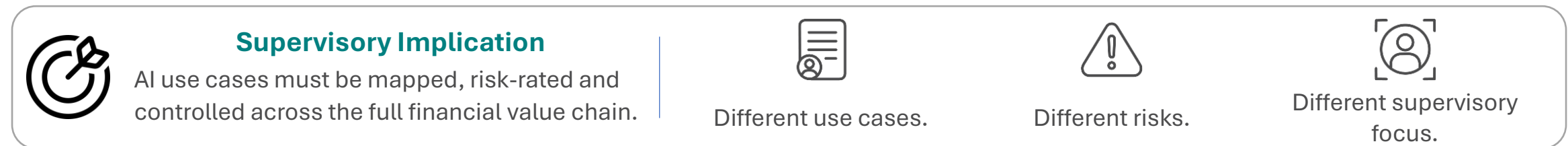
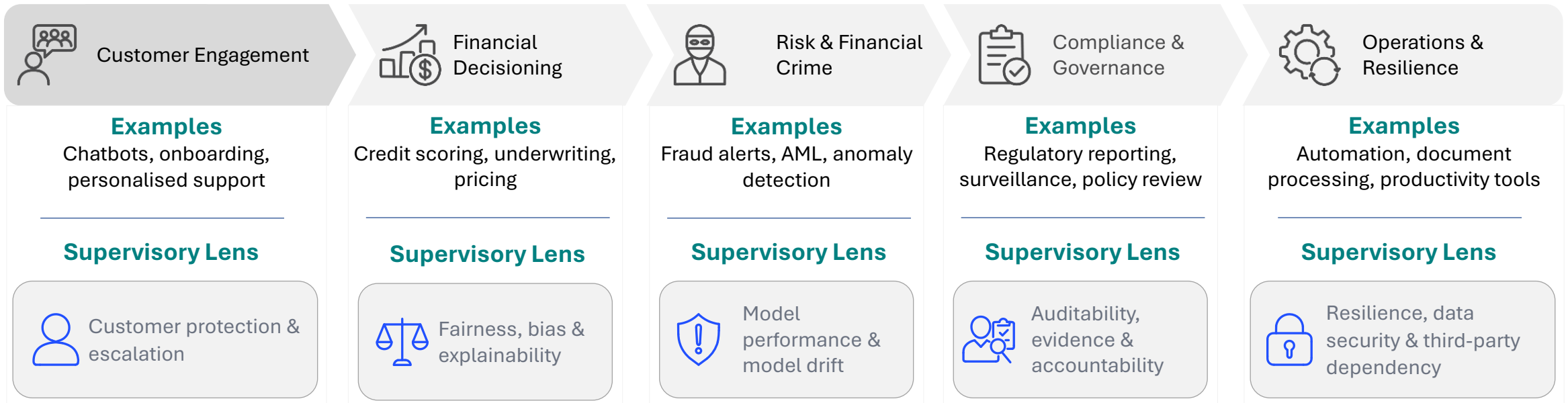


AI supervision

Reference context: OECD | FSB | BIS | EU AI Act | ACA Group / NSCP 2024 AI Benchmarking Survey







AI Is Moving Across the Financial Value Chain



AI is becoming embedded across customer engagement, decisioning, risk controls and operations



The Risk Is Not the AI — It Is What the AI Influences

Supervision should be proportionate to the level of decision influence, customer impact, control dependency and accountability risk.

 AI Influences	Supervisory Questions
 Customer outcomes	→ Could the AI mislead, exclude or unfairly treat customers?
 Financial decisions	→ Can the decision be explained, challenged and overridden?
 Risk controls	→ Is the model accurate, monitored and resilient to drift?
 Regulatory evidence	→ Can the institution prove what happened, why and who approved it?
 Operational dependency	→ Who is accountable if the AI, data pipeline or third-party provider fails?

 <p>Supervision should follow impact – NOT hype</p>	 <p>Supervisory Implication The higher the customer impact, decision influence or control dependency, the stronger the governance and evidence required</p>
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Seven Practical Challenges for AI Supervision

Effective supervision requires looking beyond the algorithm — into data, controls, monitoring, third parties and accountability.

OUTCOME RISK

1



Explainability

Can the outcome be explained?

2



Bias & Fairness

Could customers be unfairly treated?

3



Data Quality & Lineage

Is the data trusted and traceable?

4



Model Risk & Drift

Is performance monitored over time?

5



Cybersecurity & Misuse

Can the AI or data pipeline be manipulated?

6



Third-Party Dependency

Who controls the model and platform

7



Accountability & Governance

Who owns the decision and the failure?

- Clear ownership of AI outcomes
- Approval of changes and models
- Response and remediation when something goes wrong



Supervisory implication: AI supervision must test evidence across the full lifecycle – from design and data to deployment, monitoring, change and accountability.

Case Study: GenAI Customer Assistant in Finance

A simple-looking customer tool can become a supervisory risk point when it touches data, decisions, vendors and customer outcomes.

Scenario

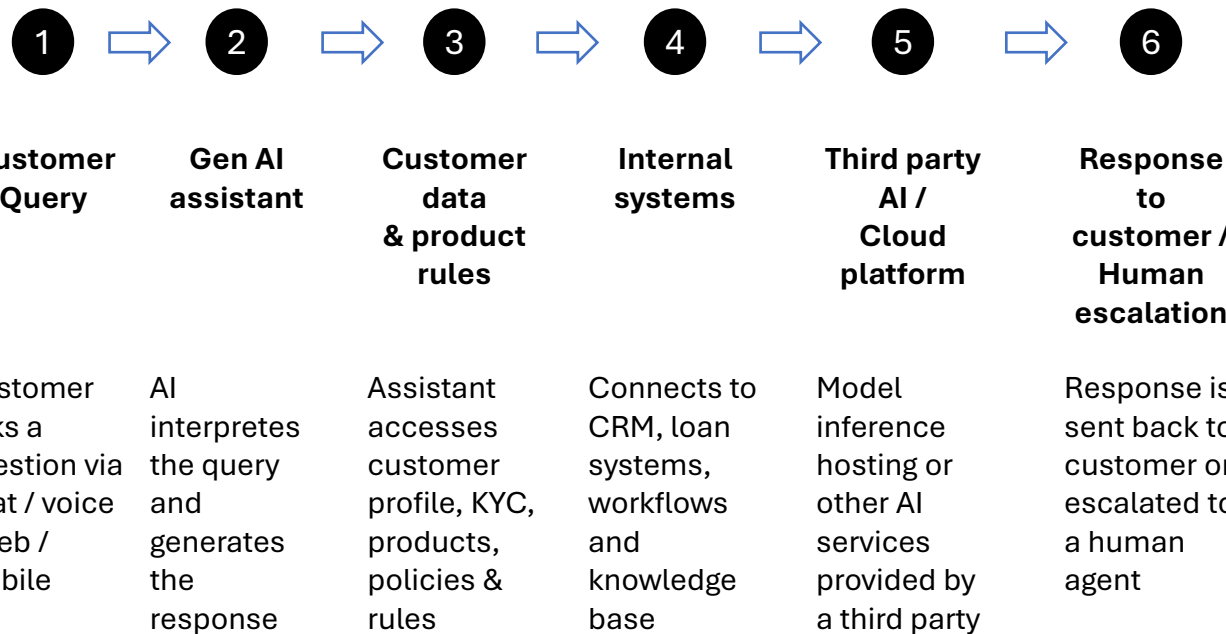


A financial institution deploys a GenAI-powered assistant to support customer onboarding, product questions and loan eligibility guidance.



The assistant connects to customer data, product rules, internal workflow systems and a third-party AI/cloud platform.

How The Assistant Works



Pre-Go-Live Challenge: What Must Be Proven?

Customer protection

Could the response mislead or unfairly treat the customer?

Data governance

What data is accessed, stored or shared?

Auditability

Are prompts, responses and decisions logged?

Human oversight

When does the AI escalate to a human?

Accountability

Who is accountable if something goes wrong?



Supervisory implication: Customer-facing GenAI requires controls over data, outputs, escalation, auditability, vendors and accountability before deployment.

From AI Use Case to Go-Live Readiness

High-impact AI should not go live until key controls are evidenced.

AI Use Case

Go-Live Readiness Gates

Go / No-Go

1 Purpose & Risk Classification

What is the AI used for and how material is the impact?

Evidence: Inventory, risk rating, business owner

2 Governance & Approval

Who approved the use case and under what risk appetite?

Evidence: Approval record, governance forum, policy alignment

3 Data Controls

What data is used, where is it processed and is it authorised?

Evidence: Lineage, legal basis, access and retention controls

4 Model Testing & Validation

Has AI been tested for performance, bias, drift, and explainability?

Evidence: Validation, test results, bias assessment, thresholds

5 Cyber & Third-Party Risk

Could the AI environment be compromised?

Evidence: Security review, vendor due diligence, contractual safeguards, incident plan

6 Human Oversight & Escalation

When does a human review, challenge or override the output?

Evidence: Escalation rules, override process, exception handling

7 Auditability & Accountability

Is there a clear audit trail and owner?

Evidence: Logs, audit trail, ownership matrix, remediation



Go-live principle: No high-impact AI use case should go live without clear ownership, tested controls, audit evidence and escalation mechanisms.

From Approval to Continuous AI Control

AI governance must operate as a lifecycle control system — with clear ownership, evidence, monitoring and remediation.

5

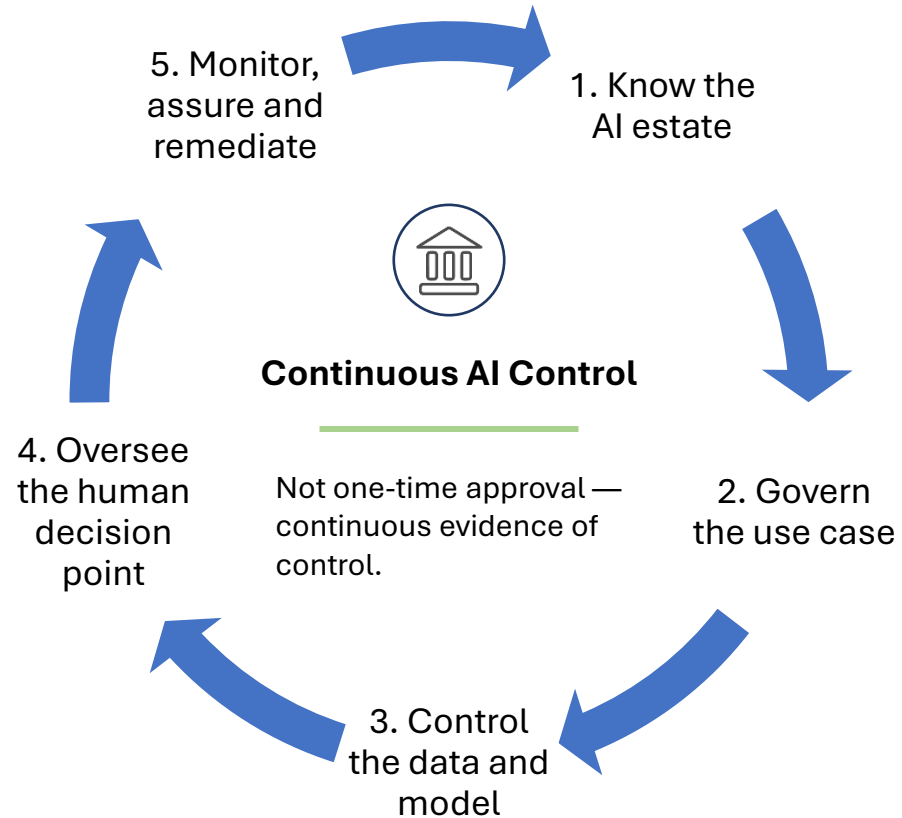
Does the institution detect issues and fix them over time?

Evidence: Monitoring dashboards, audit logs, incidents, remediation plan

4

When do humans review, challenge or override AI outputs?

Evidence: Human-in-the-loop rules, escalation paths, exception handling



1

Where is AI being used and how material is the risk?

Evidence: AI inventory, risk tiering, business owner, purpose

2

Who approved it and under what risk appetite?

Evidence: Governance forum, approval record, RACI, policy alignment

3

Are data, model performance, fairness and explainability tested?

Evidence: Data lineage, validation, bias testing, drift thresholds



Supervisory implication: The control question is not only “was the AI approved?” — it is “does the institution remain in control after deployment?”

AI Accountability Must Be Enterprise-Wide

Supervision should test whether accountability is clear across the Board, management, business, risk, technology and third-party providers.

WHAT THEY OWN

SUPERVISORY QUESTION

1	Board / Board Risk Committee Sets risk appetite, oversees high-impact AI use cases and holds management to account.	Is the Board informed of material AI risks and comfortable with the risk appetite?
2	Executive Management Owns AI strategy, operating model and cross-functional governance.	Who is accountable for AI outcomes across the institution?
3	Business Owner Owns the AI use case, customer impact and business decision logic.	Does the AI support the intended business outcome safely and fairly?
4	Risk, Compliance & Legal Challenges risk classification, fairness, regulatory impact and evidence.	Are controls sufficient and regulatory obligations met?
5	Technology, Data & Cybersecurity Controls architecture, data, model environment, access, security and monitoring.	Is the AI environment secure, reliable and monitored?
6	Third Parties / Vendors Provide model, cloud or platform services under controlled arrangements.	Are vendor risks contractually and operationally controlled?



Key shift:

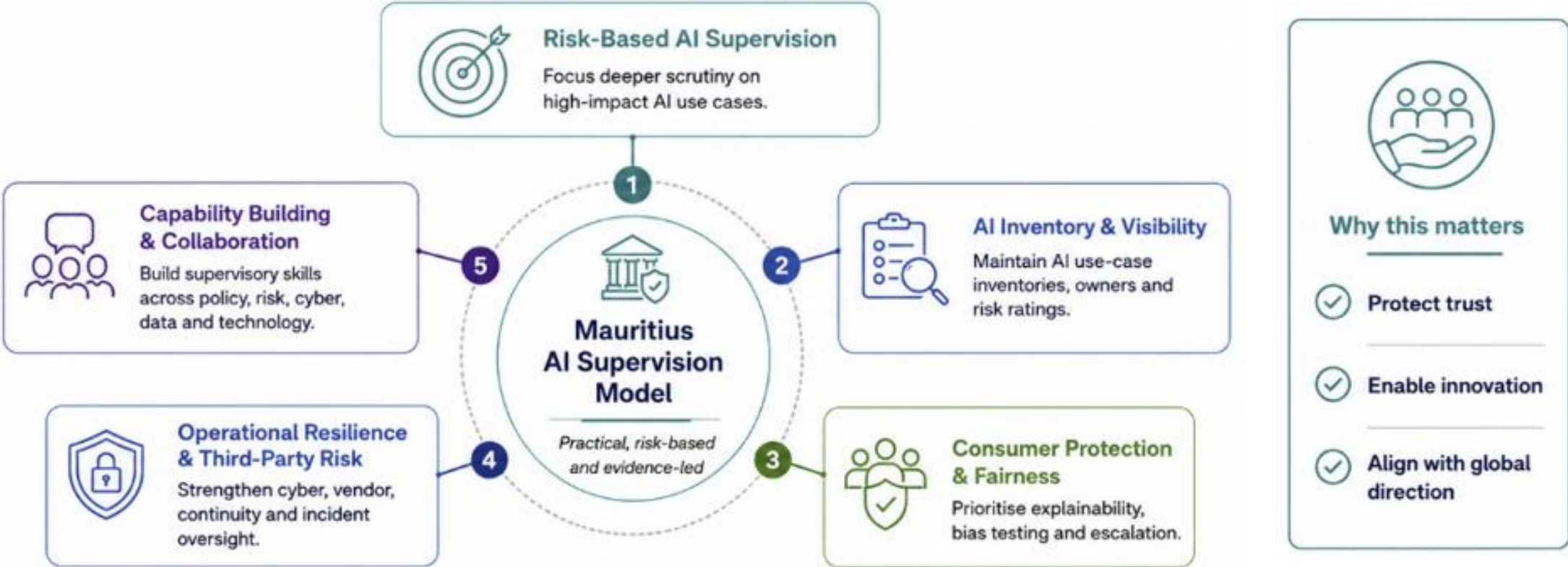
AI governance is not an IT control; it is an enterprise accountability model.



Supervisory implication: Accountability cannot be outsourced to the model, the vendor or the technology team — ownership must be explicit, senior and evidenced.

Mauritius: Practical, Proportionate AI Supervision

Enabling responsible AI adoption through risk-based oversight, control evidence and ecosystem readiness.



Supervisory Implication: Mauritius has an opportunity to protect trust without slowing innovation — through practical, proportionate and evidence-led AI supervision.

Trust Is the Licence to Scale AI

In finance, AI will only scale when institutions can prove it is governed, controlled, monitored and accountable.

1



Supervision follows impact

The deeper AI influences customers, decisions and controls, the stronger the scrutiny should be.

2



Evidence replaces intention

Institutions must demonstrate governance, testing, monitoring, auditability and accountability — not only declare responsible AI principles.

3



Trust enables scale

Practical, proportionate supervision protects confidence while allowing responsible AI adoption to grow.



The objective is not to slow AI down — it is to make AI safe enough, trusted enough and accountable enough to scale



Let's Continue the Conversation

We would be pleased to engage further on practical, trusted and responsible AI adoption in financial services.

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