

The Global State of SupTech

AI reshaping financial markets and supervision

Point Zero Forum Zurich, June 23, 2026

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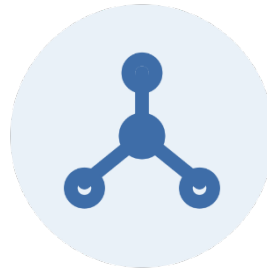
Finance is particularly exposed to AI

Speed, structure, governance — we have to get all three right as the financial system runs on trust.



Speed

AI compresses the timeframes markets rely on. The window to catch an error before it spreads keeps narrowing.



Market structure

A few providers hold the most capable models. One outage or flawed model might no longer be one firm's problem; it could potentially become systemic.



Governance

Accountability cannot be delegated to an algorithm. Decisions have to remain explainable.

Zurich, Switzerland – global hub for AI and finance



Switzerland Global Enterprise, 2026

Switzerland has the highest density of AI talent in Europe

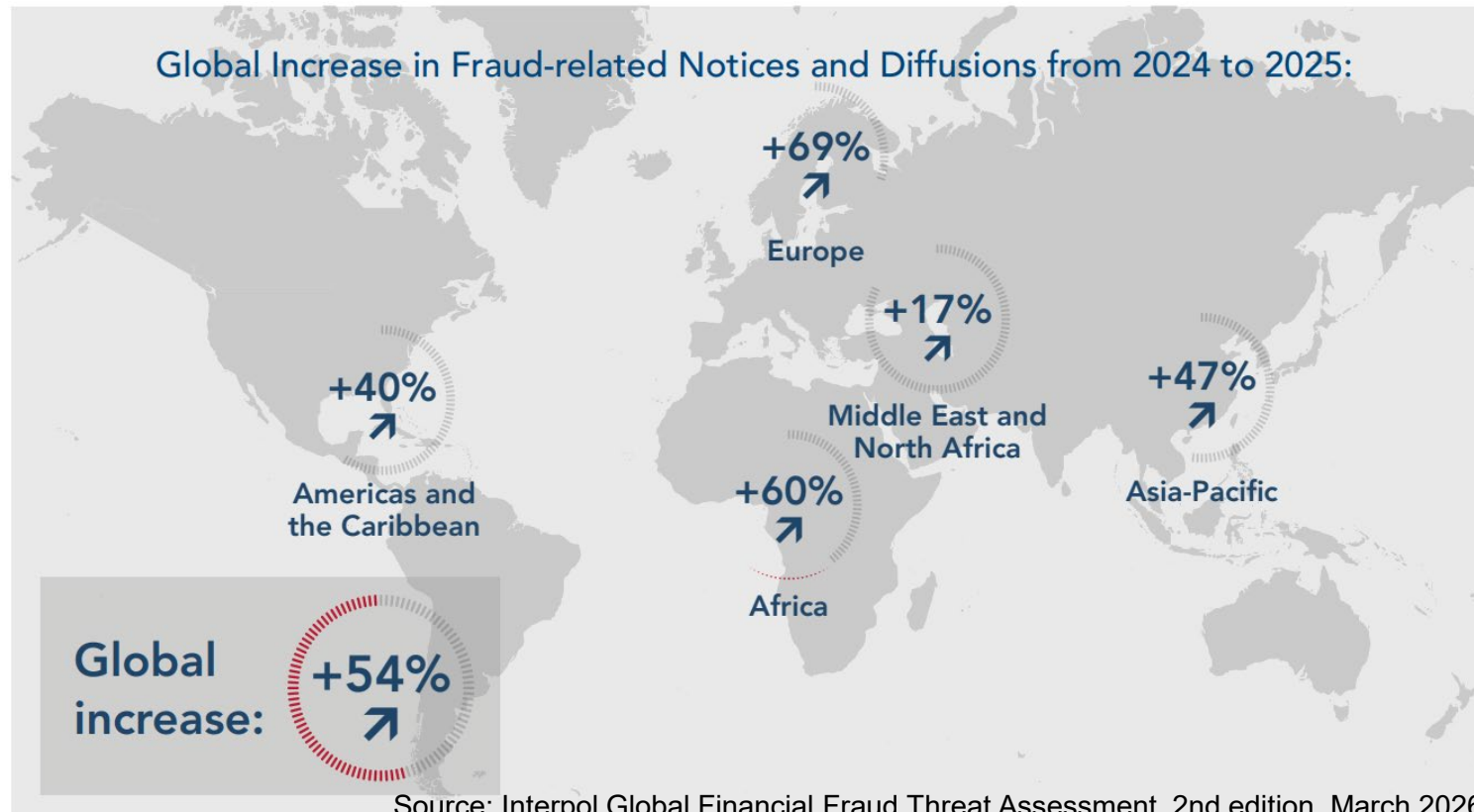
Country	Core AI talents per 10k inhabitants
Switzerland	3.5
Ireland	2.2
Netherlands	2.1
Denmark	2.0
Sweden	1.9
Finland	1.8
United Kingdom	1.5
Norway	1.5
France	1.3
Germany	1.3

Swiss Deep Tech Report, 2025

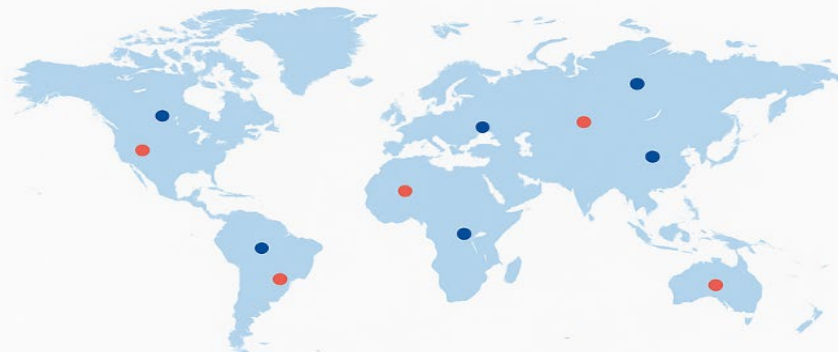
Technology as «dual use»

“The industrialisation of fraud” ...

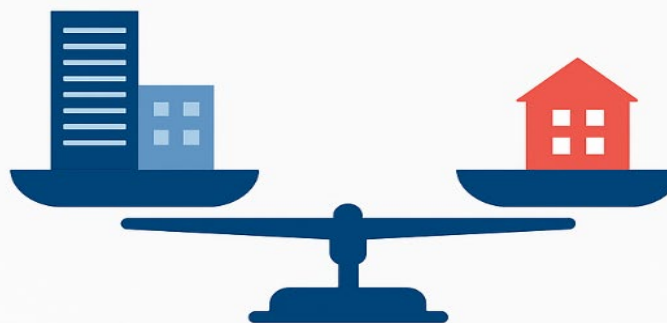
“AI-enhanced fraud is 4.5 times more profitable than traditional methods” (Interpol)



IOSCO SupTech Survey covering 75% of global markets



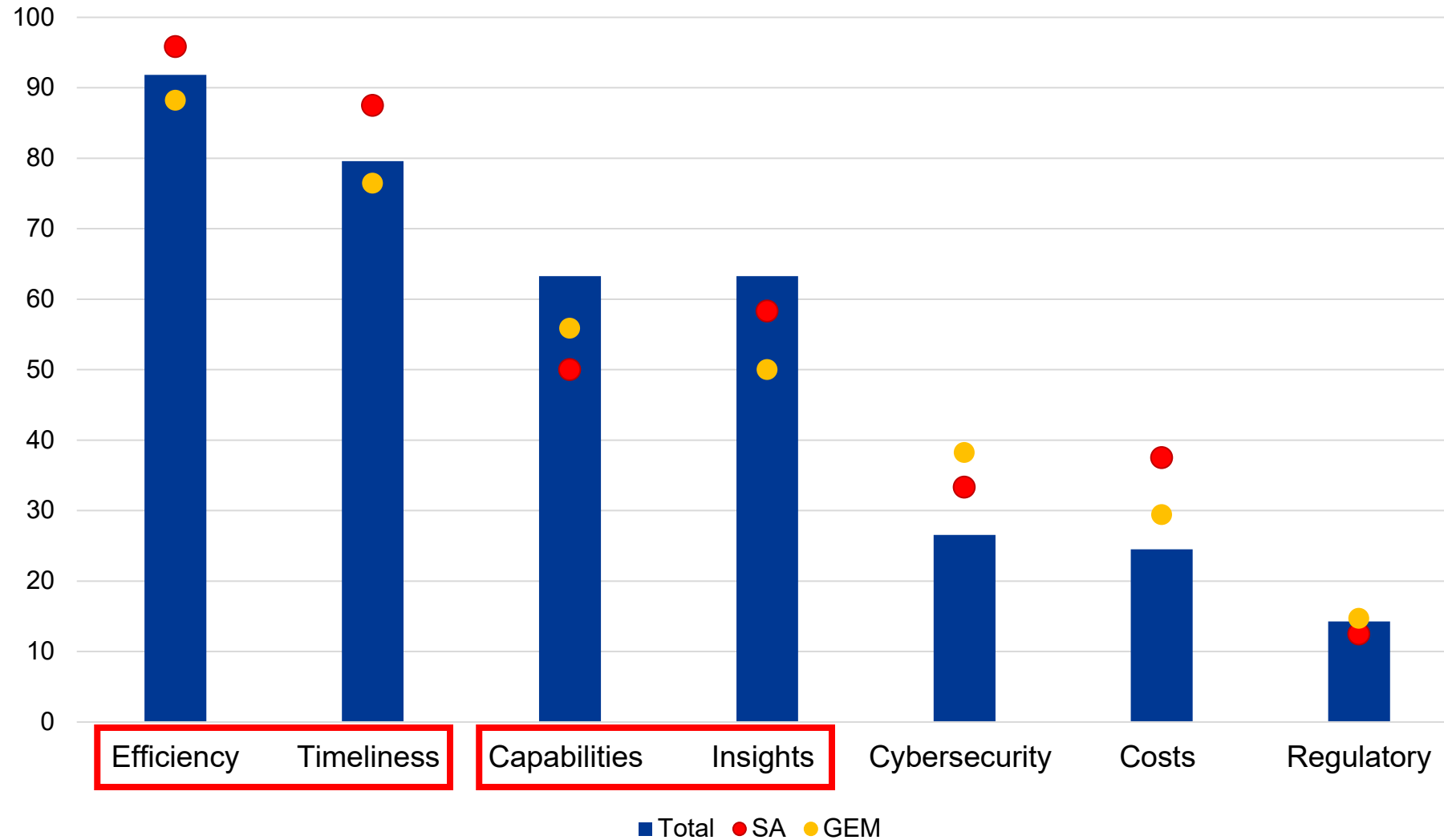
SupTech is truly global — spanning all
IOSCO regions and diverse market structures



Rather than widening gaps, pragmatic
SupTech helps level the playing field

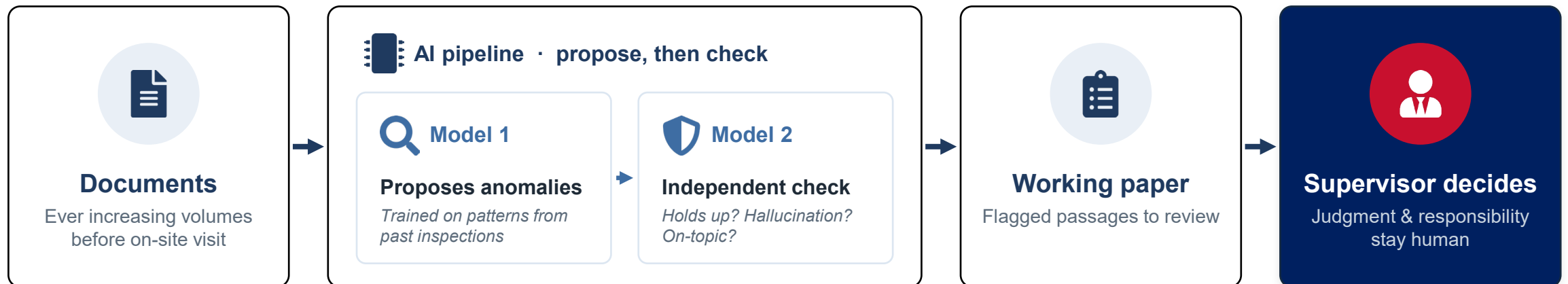
Smaller and emerging-market authorities
see it as a chance to boost capacity

Why supervisors turn to SupTech: efficiency and effectiveness



Efficiency – as an example: AI-assisted anomaly detection in documents for on-site inspections

A generative AI pipeline flags passages that may warrant a closer look — before an inspection begins.



The principle

The tool reads and suggests — it never decides and never acts.
The judgment, and the responsibility, remain firmly with our supervisors.

Effectiveness – as an example: detecting insider trading with AI

Detection is painstaking: was the information likely to move a price — what we call **price sensitivity** — and **who knew whom, and when?** We now use AI on both fronts.



Pattern recognition

Identify suspicious trading patterns from a trove of transaction data in the period prior to a significant price move.



Personal network analysis

Extracts personal data from documents held at FINMA and maps the relationships between those involved — making potential channels for inside information visible on a single screen.

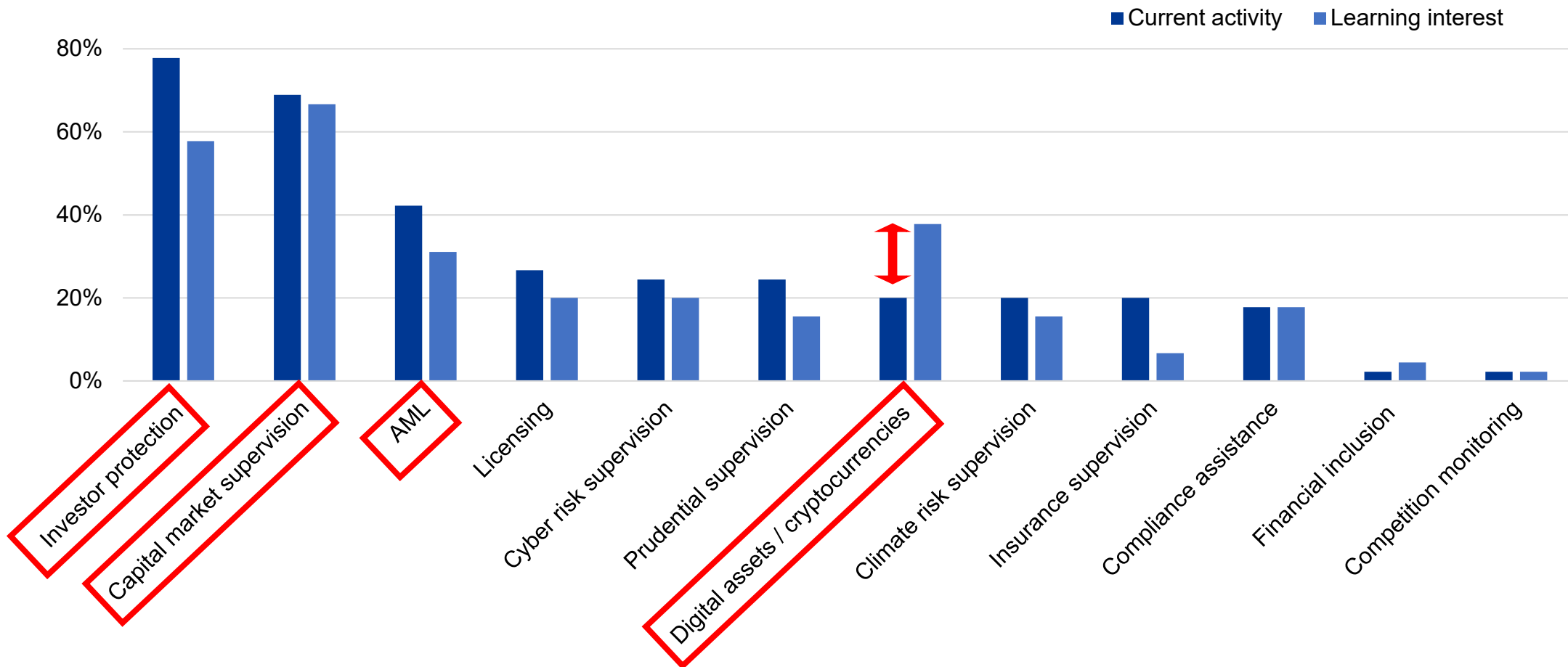


From automation to insight

Connections that might take a team weeks to piece together — or be missed entirely — surface and can be examined. SupTech lets supervisors see what was previously invisible.

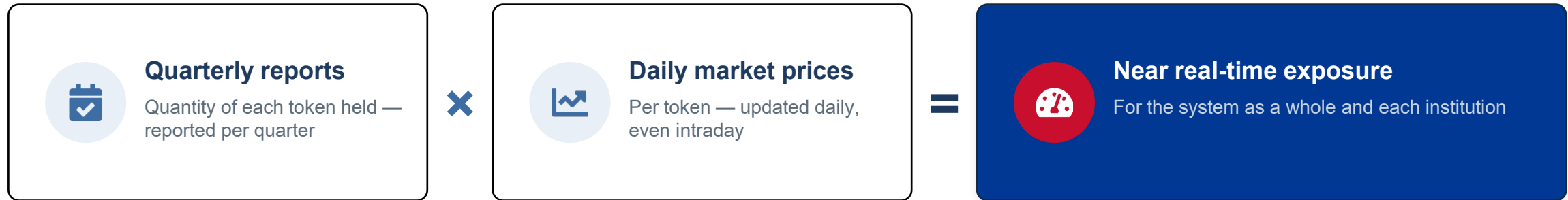
Use cases are **broad**, with the main focus on **protecting markets and investors ...**

...digital assets stand out: interest outpaces activity





Digital assets – as an example: near real-time monitoring of crypto exposures

Quarterly reporting tells us what banks hold; token prices move daily. A dashboard closes that gap.






 Matched token by token via the **Digital Token Identifier (DTI)** — the “crypto equivalent” of the ISIN

Early warning — two risks in focus

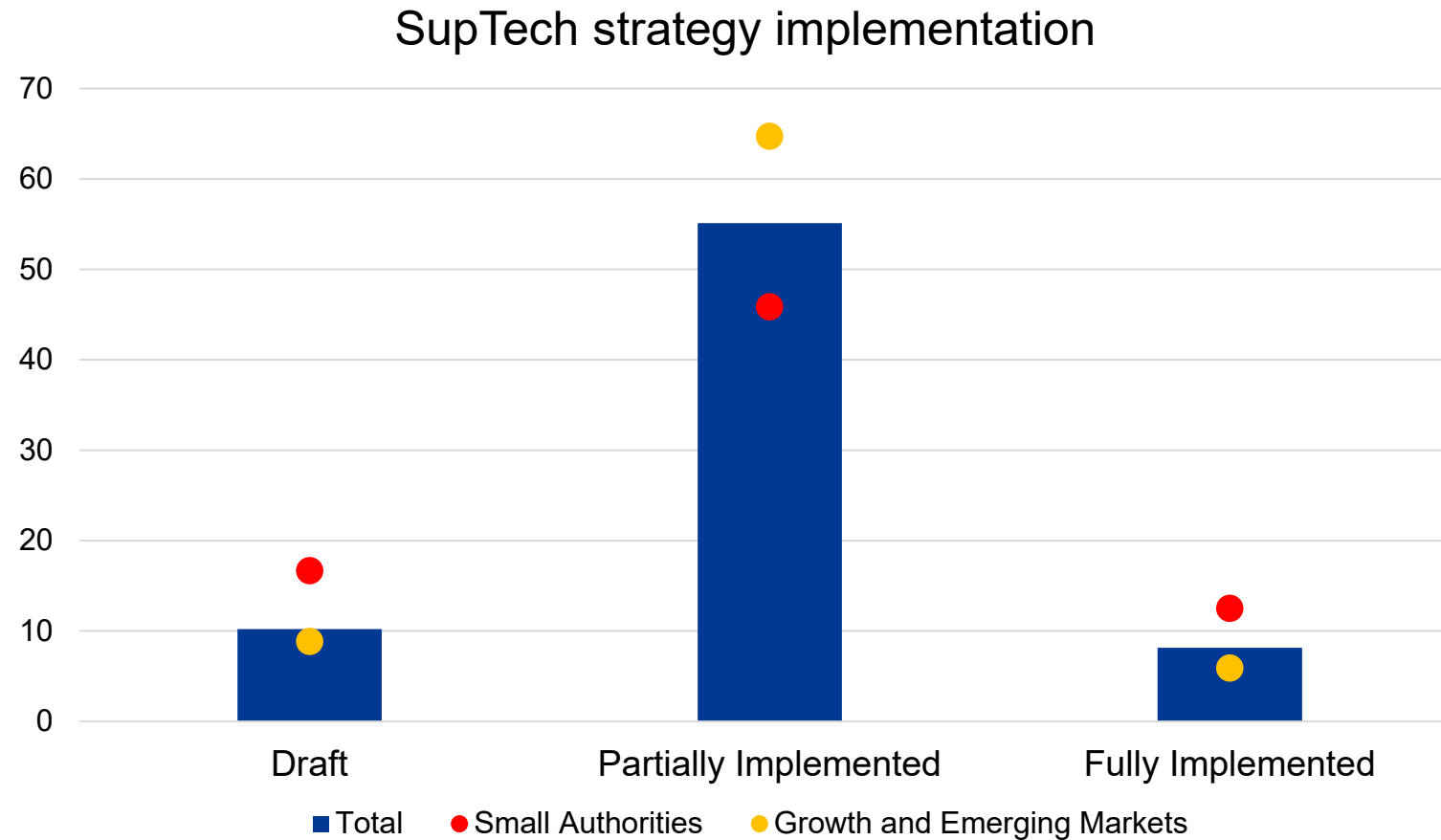
-  **Concentration risk** at a single institution
-  **Operational risk** of tokens on a single blockchain

Where we are

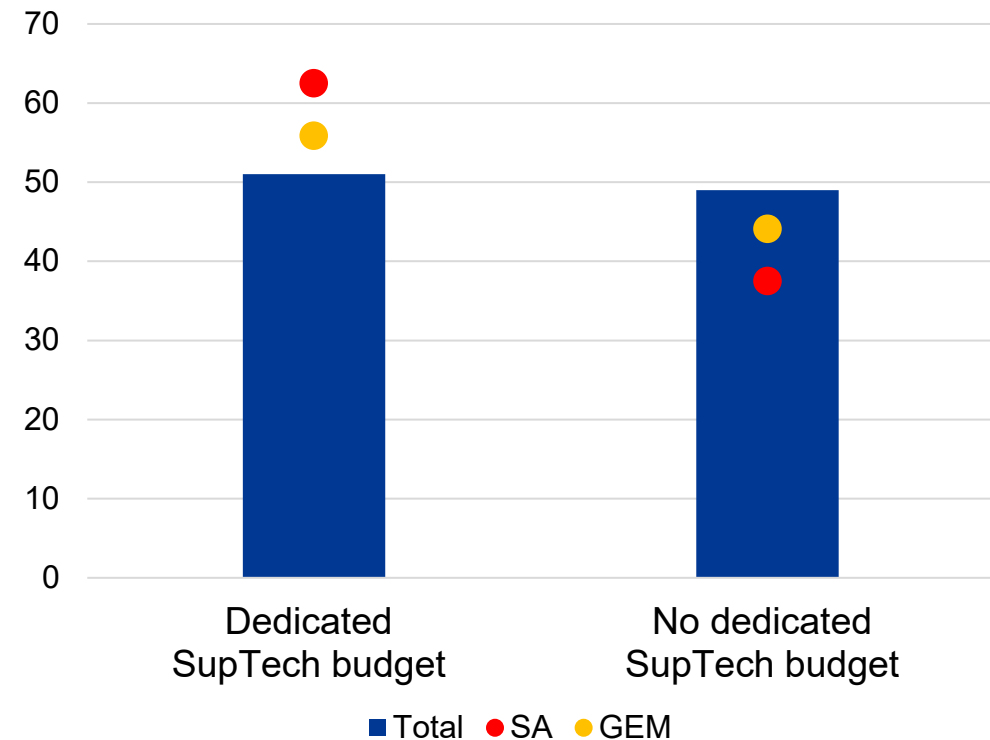
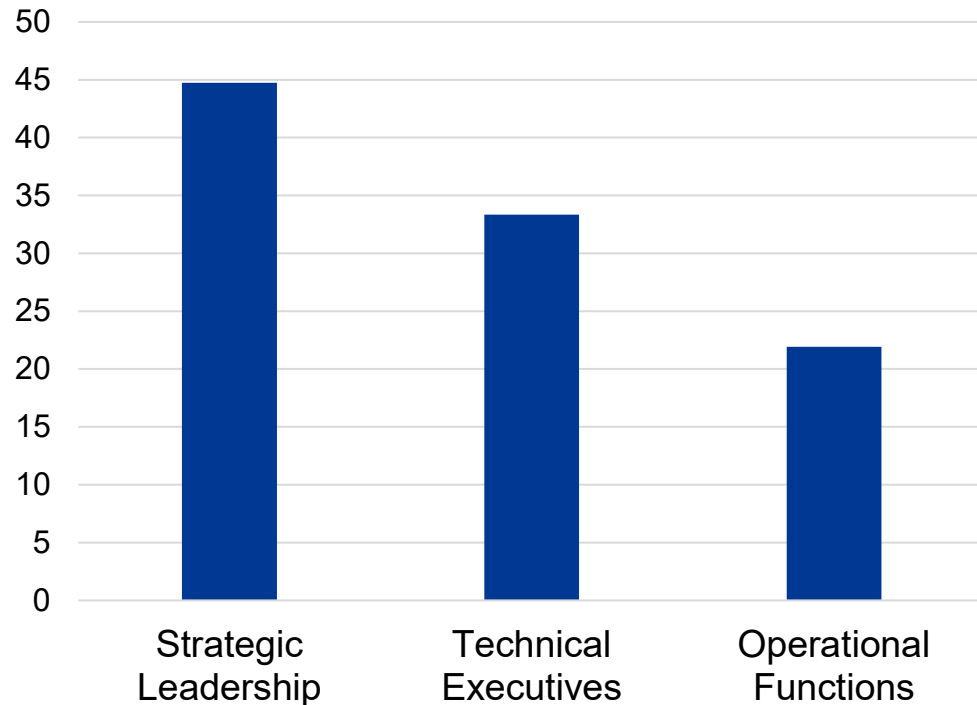
-  **First version already running**
-  Bring it fully into production
-  Extend to all licence types

Finding 1: Still early days in SupTech ...

... and smaller and GEM market authorities lead

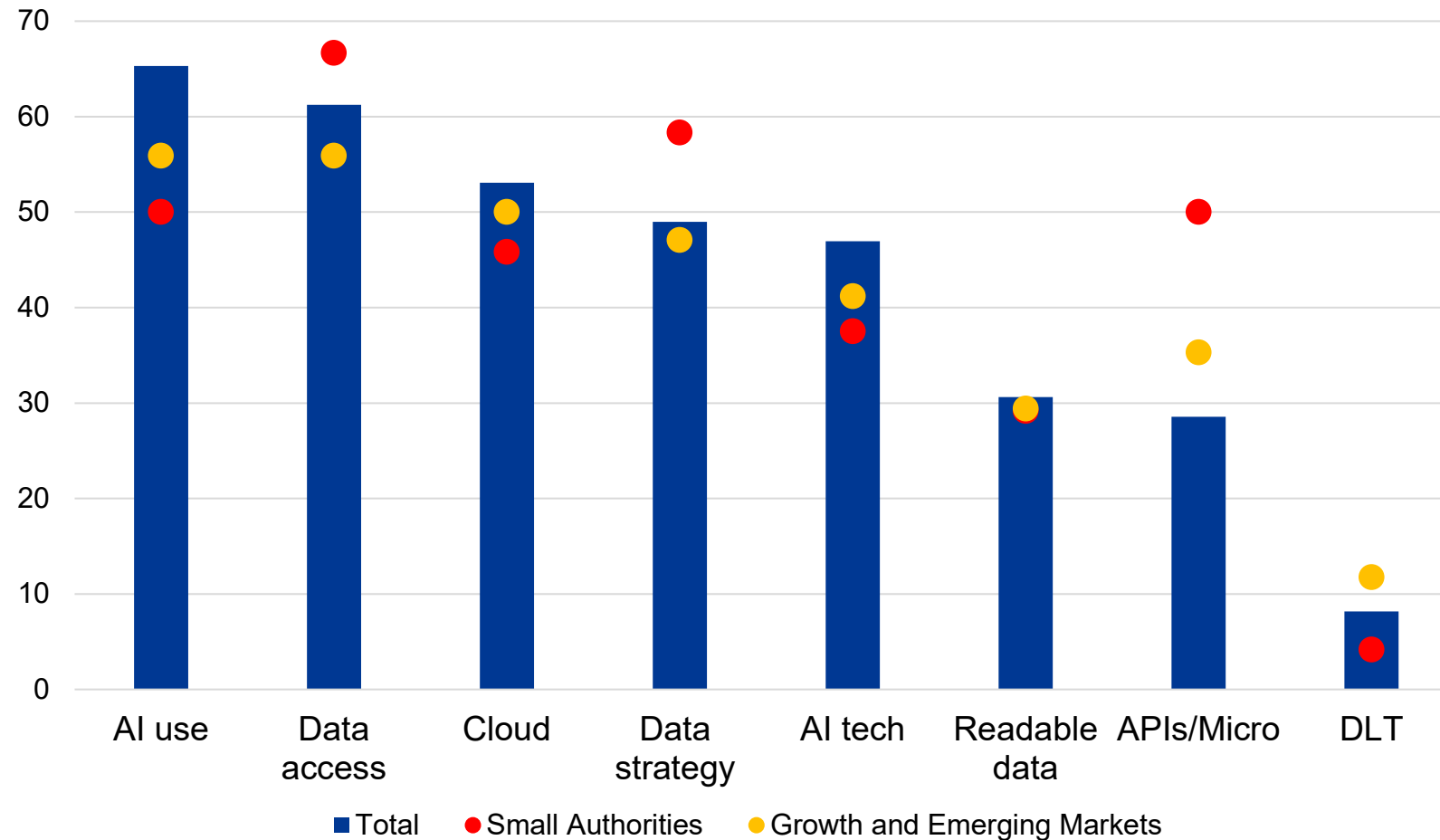


Finding 2: From experiment to strategy — from lab to boardroom



- *Strategic leadership = Chair / CEO / Executive Office and Supervision department*
- *Technical executives = Chief Data Officer / Data Analytics department and Chief Technology Officer / IT department*
- *Operational functions = Operations department, Research / Statistics department and other*

Finding 3: AI as the leading enabler, ahead of data access ...



Finding 3: ... with cyber and data security as the main risks

