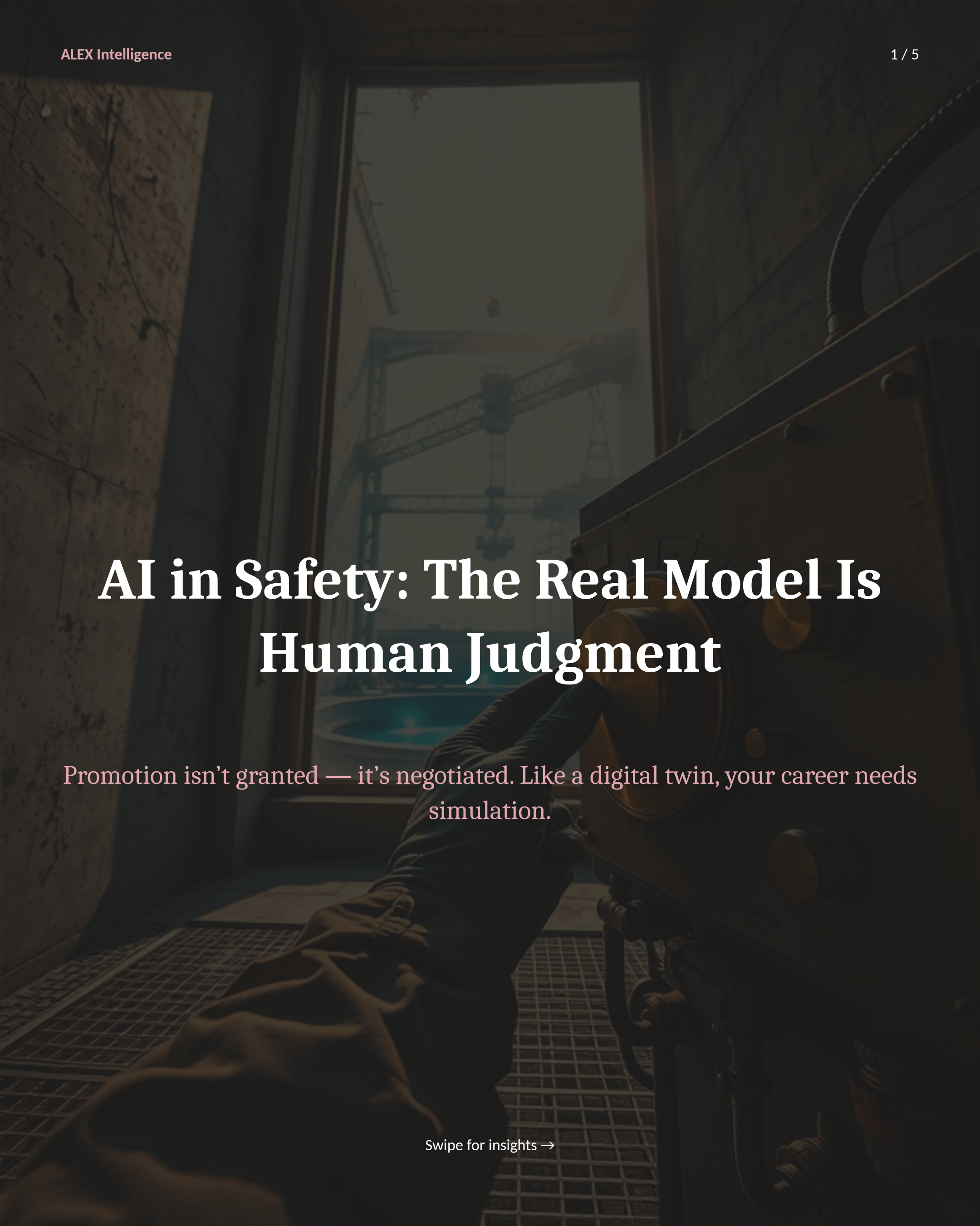


AI in Safety: The Real Model Is Human Judgment

Promotion isn’t granted — it’s negotiated. Like a digital twin, your career needs simulation.

Swipe for insights →

THE DATA

5 years

Time to First Promotion

The average engineer waits five years before asking for a promotion — a delay that mirrors outdated reactor safety protocols.

This delay isn't just about timing; it's a systemic failure in visibility. Just as nuclear monitoring systems require real-time data feeds, career advancement requires active self-advocacy. Without a documented record of impact, even critical work remains invisible to decision-makers — much like an unmonitored sensor in a reactor core.

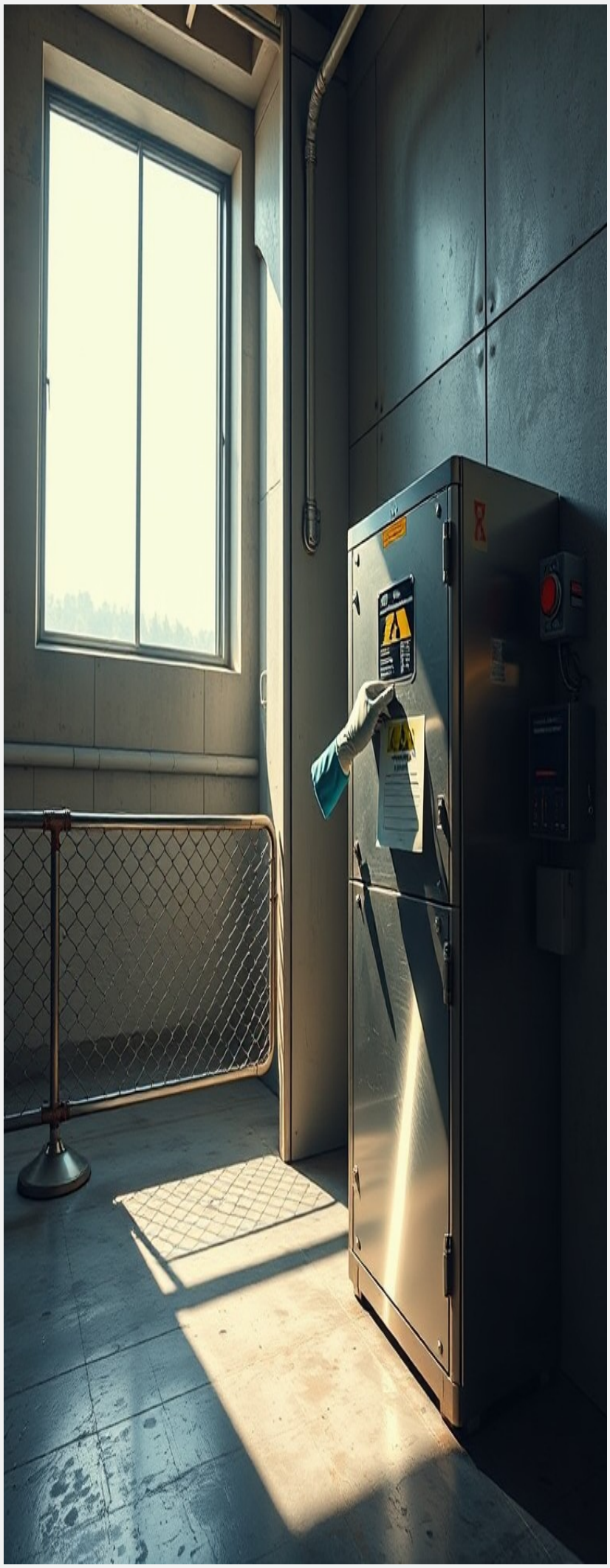


Source: IEEE Spectrum · Published November 07, 2026
https://spectrum.ieee.org/how-to-get-a-promotion

01

Visibility Is the First Line of Defense

Just as predictive maintenance algorithms rely on historical sensor data, career advancement algorithms depend on documented evidence of value. Without it, even the most rigorous safety culture fails to scale.



02

The Safety Case Requires Active Advocacy

When an engineer finally asks for a promotion, they’re not requesting favor — they’re presenting a formal case, complete with evidence, just like a licensing application. The delay in making that case is a risk to the organization’s talent pipeline, just as a delayed alarm is a risk to reactor integrity.

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