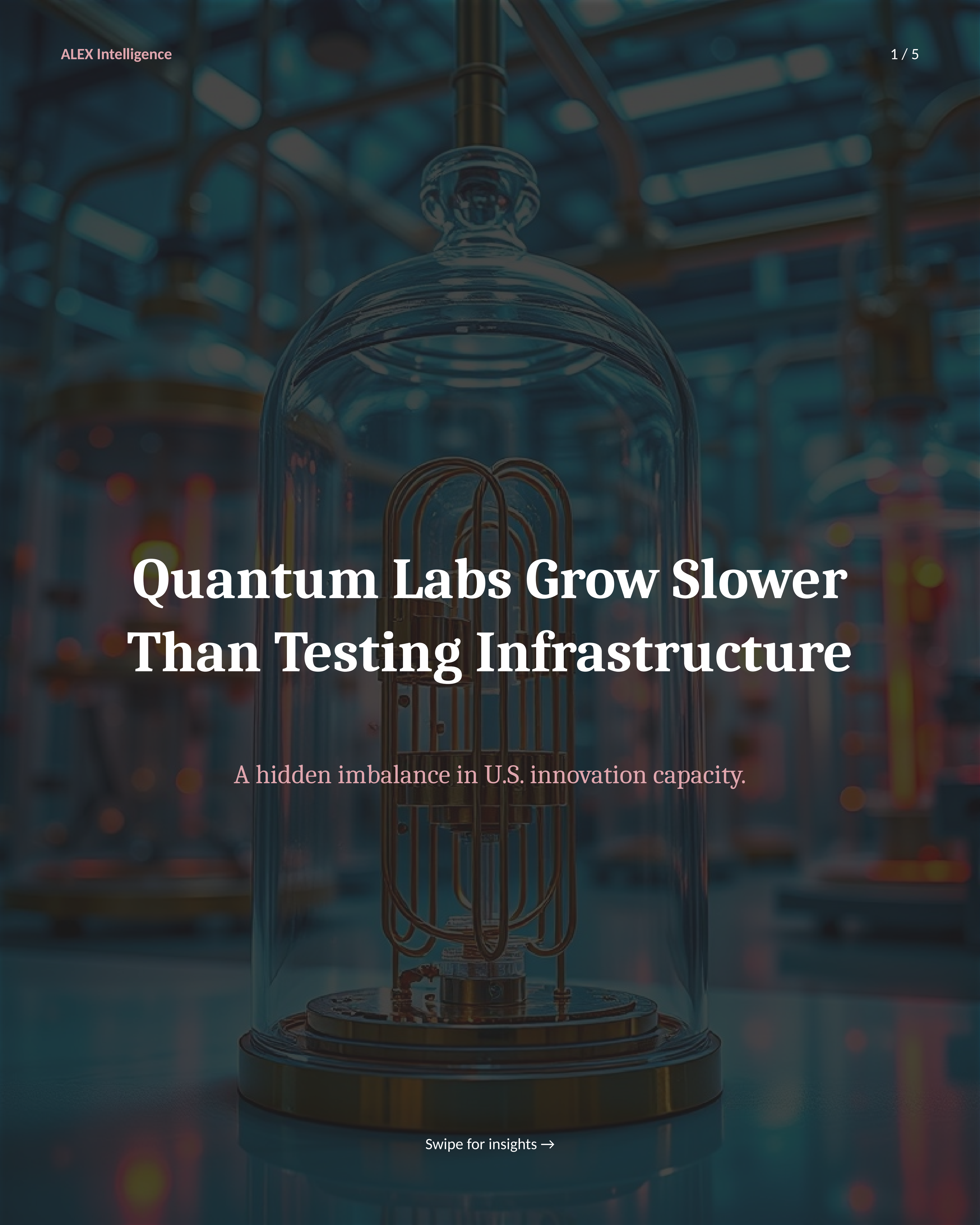


Quantum Labs Grow Slower Than Testing Infrastructure

A hidden imbalance in U.S. innovation capacity.

Swipe for insights →

THE DATA

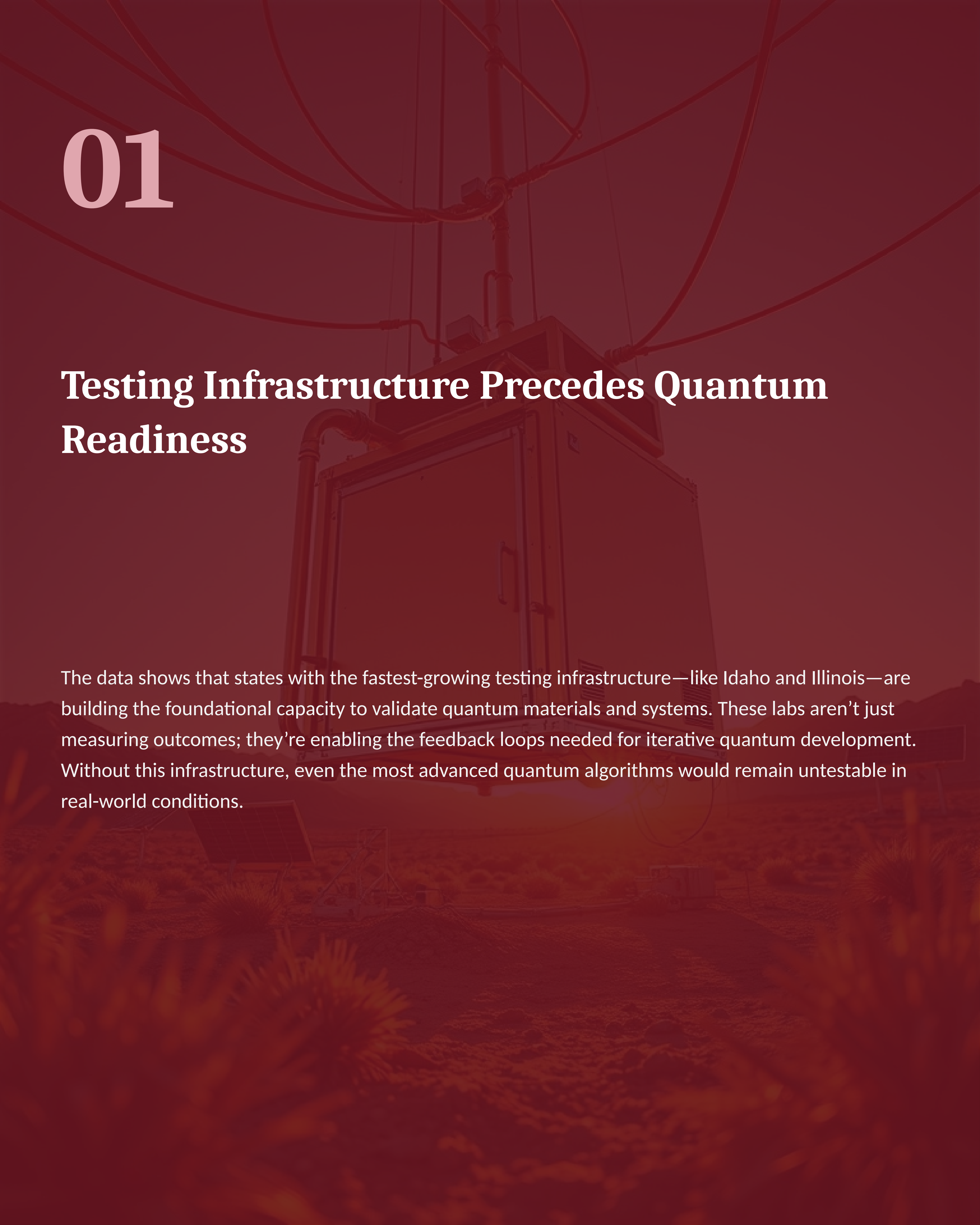
14.7%

Spread Between the Fastest and Slowest Growth in Testing Laboratories

The gap between Idaho’s 26.3% and Rhode Island’s 11.1% growth in testing laboratories.

This 14.7% spread reveals a stark divergence in where America’s technical infrastructure is expanding. Idaho leads with a 26.3% surge in testing labs—driven by advanced biotech and materials science clusters—while Rhode Island, despite strong academic foundations, lags at 11.1%. The disparity isn’t just about volume; it reflects a deeper misalignment between lab expansion and quantum readiness.

Source: U.S. Census Bureau, County Business Patterns 2019 and 2022, NAICS 541380 (Testing laboratories) · Published September 16, 2026
https://alex-companies.com/data/2026-09-16-ai-quantum-dive-541380-state



01

Testing Infrastructure Precedes Quantum Readiness

The data shows that states with the fastest-growing testing infrastructure—like Idaho and Illinois—are building the foundational capacity to validate quantum materials and systems. These labs aren’t just measuring outcomes; they’re enabling the feedback loops needed for iterative quantum development. Without this infrastructure, even the most advanced quantum algorithms would remain untestable in real-world conditions.

02

The Risk of Over-Investment in Quantum Without Lab Capacity

States with high quantum R&D funding but low testing lab growth—such as those in the Northeast—face a structural bottleneck. Even with top-tier research talent and AI-driven modeling, real-world validation requires physical testing infrastructure. A quantum breakthrough in a lab with no validation capacity is an academic exercise, not an industrial one. The 14.7% gap is a warning sign of an innovation bottleneck.

MIT, Nvidia, Google & IBM-Trained. Cross Domain-Expert: Quantum, AI, Ethics, Sovereignty, Intelligence, Philanthropy. Solepoint Planning. VUI AI Cloud Architect. AI Certifications Development. Quant/AI Instructor. Castor Venture Club Member. Associate Broker.

George Arnold Alexander III, MPA

Partner, ALEX Companies

Associate Broker, Alexander Tiffany Southwest, LLC dba ALEX.realestate, et.al.

Texas License #574878-B · Broker License #565194-BB

Broker, ALEX Real Estate · North Carolina License #367733

Independent Broker, ALEX Real Estate · Colorado License #II.100112456

george@alex.realestate · +1 713.918.9951

ALEX

ALEX Intelligence
deep intelligence

ALEX Real Estate
genius real estate

ALEX Advisory
uncontested strategy

ALEX Cares
purposeful philanthropy