

Infrastructure for the New Data Economy

Data is becoming the world's most valuable asset—but most systems aren't built to treat it that way. Today, data is siloed, slow, and insecure. Organizations spend billions dealing with inefficiencies, breaches, and unreliable information. At the same time, AI adoption and looming quantum-era threats make the need for real-time, secure, and intelligent data infrastructure more urgent than ever.

Vannadium provides the foundation for the new data economy: ultra-fast, resilient, and programmable infrastructure that gives organizations true control of their data.

Why current Systems Fail

Most organizations rely on data to drive critical decisions, yet the systems that manage it are outdated and fragmented. Information is locked in silos, security is fragile, and access controls are inconsistent, especially in AI-driven environments.

The result is that data is slow, unreliable, and often unsafe, holding back enterprise innovation and exposing governments and businesses to costly risks.

- Global productivity losses: \$7.8T annually due to latency and outdated systems (Gallup)
- Healthcare waste: \$30B lost each year to interoperability failures (Health Affairs)
- Poor data quality: \$3.1T annual cost to the U.S. economy (IBM); \$15M per company on average, \$1B+ for Fortune 500 (MIT Sloan)
- Rising security risks: Centralized data is an easy target for ransomware, fraud, and AI-driven attacks
- AI adoption bottlenecks: No reliable way to validate data sources or enforce access policies, limiting the move from AI pilots to enterprise-wide adoption
- Lack of ownership and flexibility: Most organizations don't truly control their data or how it's used

The result: data is **chaotic, leaky, and underutilized**—costing money, time, and lives.

Poor data quality costs organizations an average of **\$15 Million** per year.

For Fortune 500's the average is over **\$1 Billion** per year

The Solution: Vannadium's Data Infrastructure Platform



