









## 8 Must-Haves for a Successful Data Lake Migration

What separates migrations that succeed from those that become technical debt

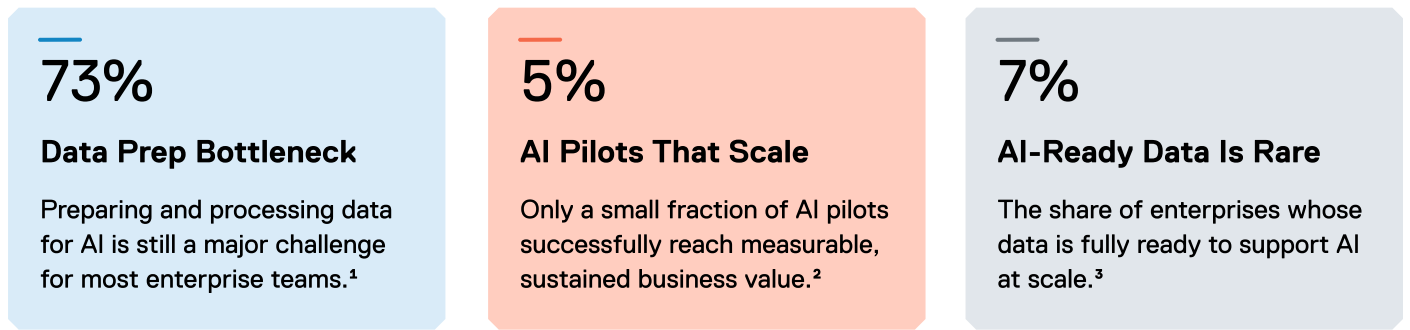
### THE 8 MUST-HAVES

Before your migration begins, make sure your foundation covers these essentials

- 
**Clear Data Ownership**  
 Assign accountable owners for every data domain before migration begins
- 
**AI-Native Architecture**  
 Design for unstructured data, vector processing, and feature reuse from day one
- 
**Governed, Open Formats**  
 Store data in open standards that prevent vendor lock-in and ensure longevity
- 
**Enforcement-First Governance**  
 Access controls, privacy rules, and compliance policies enforced by the platform
- 
**End-to-End Data Lineage**  
 Automatically capture where data comes from, how it moves, and who has changed it
- 
**Modular, Tool-Agnostic Design**  
 Adopt new engines and tools without rebuilding your architecture every time
- 
**Continuous Quality Monitoring**  
 Validate and monitor data quality automatically so issues surface before they reach AI or analytics
- 
**A Plan to Scale, Not Just Migrate**  
 Build for the volume, complexity, and use cases you'll have in 3 years, not just today

Miss any one of these and your migration becomes a new source of technical debt.

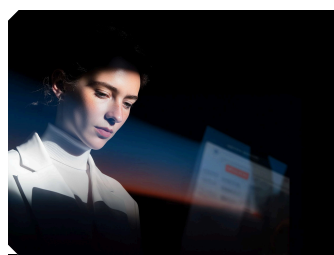
### WHY DATA LAKES FAIL ((AND WHAT IT COSTS YOU))



### THE GAP BETWEEN EXPECTATION AND REALITY

What Companies Think They Built	What Really Happens	The Cost to Your Business
Centralized data in one place	No clear ownership	AI outputs you can't trust
Scalable storage for any volume	No lineage or visibility	Slower decision-making
A "single source of truth"	Inconsistent data quality	Constant rework
	Fragmented pipelines	Growing technical debt
	Policies aren't enforced	Missed opportunities

Data lakes degrade over time unless they are designed correctly.



Learn the five pillars of a future-ready data lake and how to turn your data into a long-term competitive advantage.

[Download the White Paper →](#)

### SOURCES

- <sup>1</sup> Harvard Business Review Analytic Services, 2026
- <sup>2</sup> MIT Sloan Management Review
- <sup>3</sup> Harvard Business Review Analytic Services, 2026