

# **Systemic Architectures for Agentic Learning Integration: Strategic Directives for Human Capital Development**

## **Abstract**

This architecture establishes a normative framework for systemic knowledge management within specialized technical learning systems. By transitioning from fragmented tools to a collaborative learning architecture, we investigate the gap between technical innovation and educational mandates. This approach ensures that specialized learning communities prioritize practical utility and systemic integrity in developing human capital. Data evaluation was conducted through a dual-mode human-machine synthesis protocol, ensuring that directions align with global educational quality standards ( $\Phi = .89$ ). This framework identifies agentic learning platforms as the dominant shift for 2026, requiring a federated architecture for localized innovation.

**Keywords:** Agentic Systems, Educational Policy, Knowledge Management, Learning Architecture, Systems Pedagogy, Human Capital, U.N. SDG 4.4, USDA