ARCTIQ

Arctiq A-IQ Services & Enablement Framework

Architecting the Foundation, Flow, and Future of AI

If your organization is investing in data, then AI should be a central part of your strategy, not just a future consideration. Yet many enterprises are still in early stages, exploring tools, experimenting with models, and testing out capabilities without a clear path to scale.

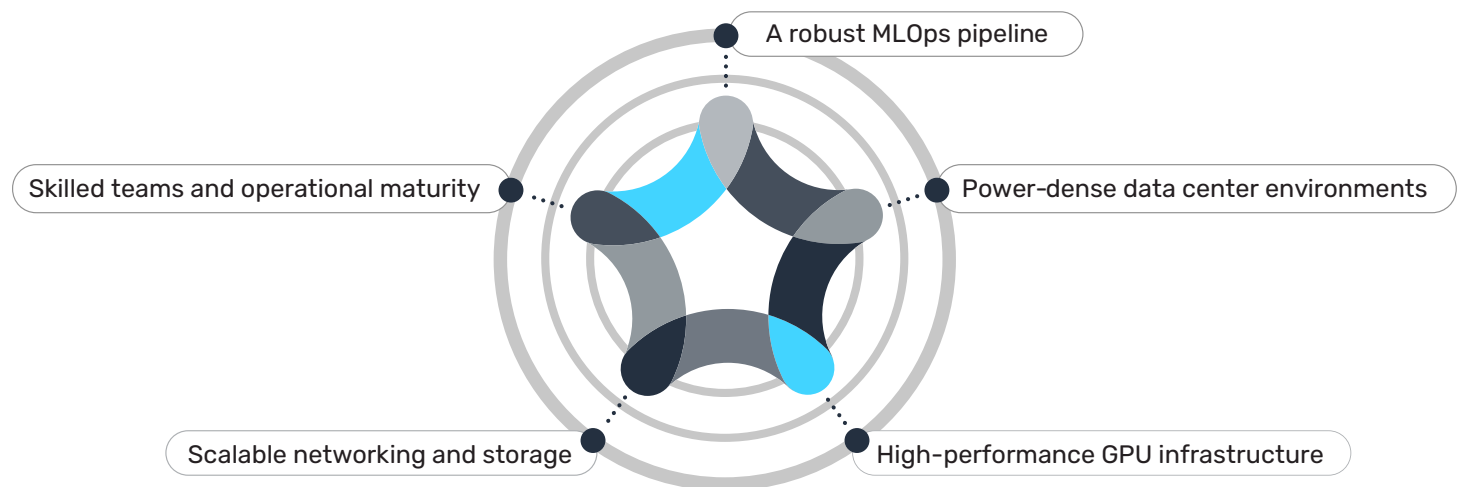At the same time, many leading organizations are building what we call AI factories—purpose-built, production-ready environments that transform data into intelligence and intelligence into business outcomes. These factories are designed to scale, automate, and accelerate AI adoption across the enterprise.

**The question isn't *if* you need an AI factory.
The question is *how* soon can you build one?**

What is an AI Factory?

Think of an AI factory like a traditional manufacturing plant, but instead of assembling goods, it produces intelligence. From data ingestion and model training to inferencing and deployment, the AI factory is a full-stack system purpose-built to develop, scale, and deploy AI workloads reliably and repeatedly.

At its core, an AI factory requires:

- A robust MLOps pipeline
- Power-dense data center environments
- High-performance GPU infrastructure
- Scalable networking and storage
- Skilled teams and operational maturity

Whether you're starting small with a 32-GPU private AI cloud or aiming for hyperscale, Arctiq has the blueprints to get you there faster—with less risk.

Architect Intelligence with AI

A-IQ is Arctiq's end-to-end approach to helping clients adopt, operationalize, and scale AI. We help organizations move beyond experimentation to create real-world value from AI. Whether you're modernizing infrastructure, implementing observability with embedded ML, or deploying Generative AI solutions with enterprise controls, we ensure your AI strategy is secure, scalable, and aligned to outcomes.

AI Strategy

- **AI Strategy & Use Case Development**
  InsightIQ workshops to help you map value and identify where AI can create real productivity and accelerate your business and define a proof-of-value strategy

- **AI Governance & Compliance**
  Third-party risk assessment of AI tools, regulatory and business compliance mapping, and governance design for data loss protection, privacy, classification, and safety

AI Enablement

Foundational capabilities that support the data, compute, and network demands of AI.

- **Modern Data Platforms**
  Data Lakes, Lakehouses, Warehousing (e.g., Databricks, Snowflake), DataOps pipelines, transformation frameworks

- **Cloud & Infrastructure Readiness**
  Hybrid cloud architecture, landing zones, infrastructure-as-code (Terraform, Ansible), scalable storage and compute

- **AI-Native Networking**
  Intelligent, self-healing networks that adapt in real time to workload demands (Juniper Mist AI, Cisco IBN, SD-WAN with AI, AIOps-driven assurance)

- **Security Architecture**
  Data Security Posture Management (DSPM), Zero Trust, Identity & Access Management, encrypted traffic inspection

AI Integration

Embedding AI into tools, workflows, and services to deliver insights and automation.

- **AI-Driven Observability**
  Dynatrace, Google SecOps, Splunk – with ML for anomaly detection, root cause analysis, and automation

- **Copilot Readiness & Enablement**
  Microsoft Copilot, GitHub Copilot, Security Copilot JumpStart programs to accelerate AI-assisted productivity

- **AI-Augmented Managed Services**
  MXDR, Attack Surface Management, Dark Web Monitoring – all enriched with AI for faster threat detection and contextual analysis

- **AI-Native Wireless & Wired Networking**
  Predictive analytics, client behavior insights, and self-optimizing networks driven by Mist AI or Cisco DNA Center

AI Operations

Managing, securing, and scaling AI and ML across the enterprise.

- **AI/ML Ops**
  GitOps driven CI/CD automation for every stage of the AI/ML development lifecycle: model deployment, platform feature engineering, prompt evaluation, and feature engineering

- **AI/ML Observability**
  Observe and understand AI queries and responses and integrate feedback into everything from reinforcement learning to safety and security design

- **AI Threat Engineering**
  Red-team planning and engagement to validate and improve AI security and safety guardrails

AI-Enhanced Experience

Optimizing the digital and developer experience through AI.

- **Developer Platforms & Experience Engineering**
  Self-service portals, automated pipelines, platform-as-a-product, frictionless onboarding
- **Application Modernization**
  Refactoring legacy apps to be cloud-native and AI-ready
- **Digital Workspace**
  VDI, UCaaS, and secure remote access enhanced by AI-powered performance and experience analytics

AI Infrastructure

Powering performance and scale for AI-driven innovation.

Delivering the compute, storage, and networking foundation to support modern AI workloads.

- **High-Performance Compute & GPU Infrastructure**
  NVIDIA-powered systems, including DGX and SuperPOD architectures, to accelerate AI training and inference at scale
- **AI-Optimized Storage Solutions**
  Scalable, high-throughput data platforms from Dell, HPE, WEKA, Hammerspace, and more to handle massive, distributed AI workloads with speed and efficiency
- **Data Mobility & Multi-Cloud Readiness**
  Seamless access to data across on-prem and cloud environments through unified data orchestration and global namespaces
- **Modern Data Center Architecture**
  Reference architectures and deployments designed for dense compute, low latency, and energy efficiency to support AI and ML operations

Start Your AI Journey with Arctiq

Let's talk about how Arctiq can help you move from AI exploration to AI execution — faster, smarter, and with a foundation that scales. Contact us today for a complimentary consultation.

▶ Ready to transform your business with AI? Contact Arctiq today and let's build the future together.

Book a Consultation