

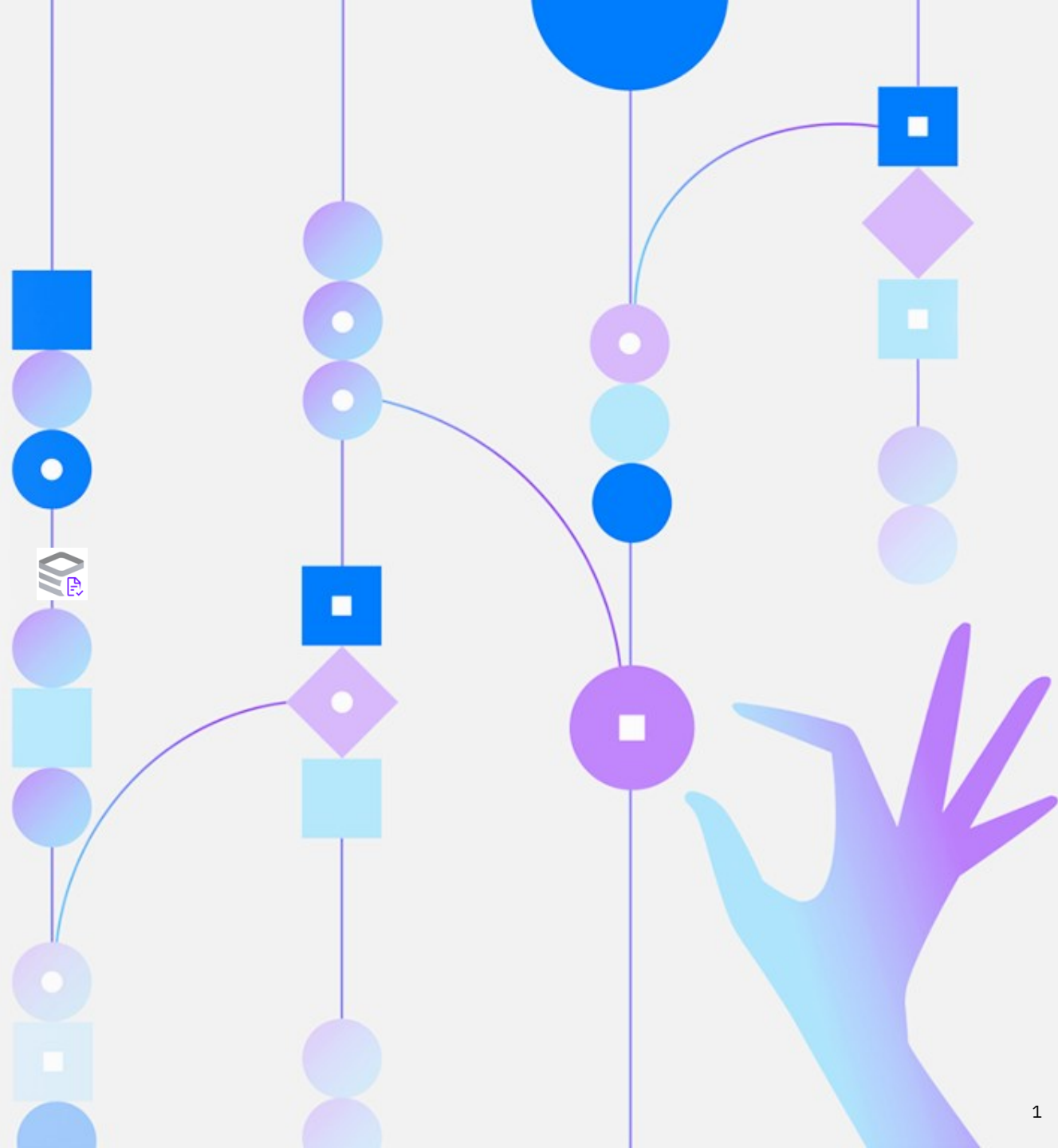


STAR Agentic AI For HLS

STAR-AI:

A Multi-Agent AI Platform Driving
Compliance Innovation in Healthcare
& Life Sciences

IBM Consulting, November 2025



Personas



Regulatory
Change Manager



Compliance
Office

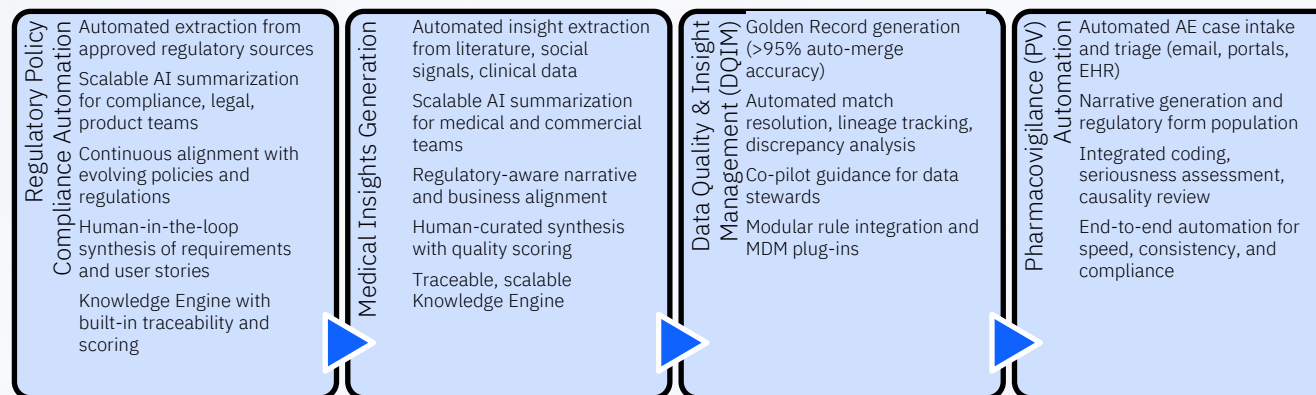


Corporate Policy
Consul



Compliance
Product Owner

Use Case Portfolio



Narrative Drafting Speed
Reduced from 6 weeks → 8 minutes



Audit & Regulatory Readiness
Embedded explainability, lineage, and quality scoring

Benefits & Value

50-70%

Faster cycle time in case and compliance handling

↓ 40%

Fewer manual match errors

95%+

Merge confidence

30-50%

Reduction in operational costs across safety, quality, and data workflows

Data Steward Efficiency

STAR AI Core Accelerator

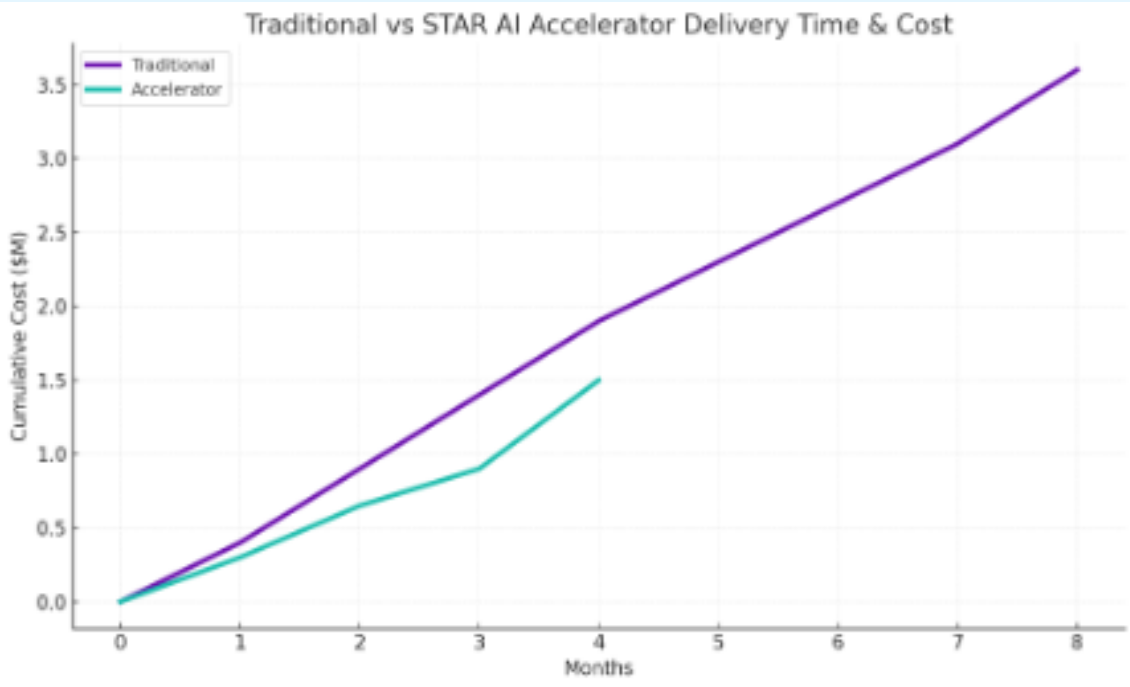


Figure: Delivery Time (Months) & Cost (\$M) of Traditional & STAR AI Accelerators.

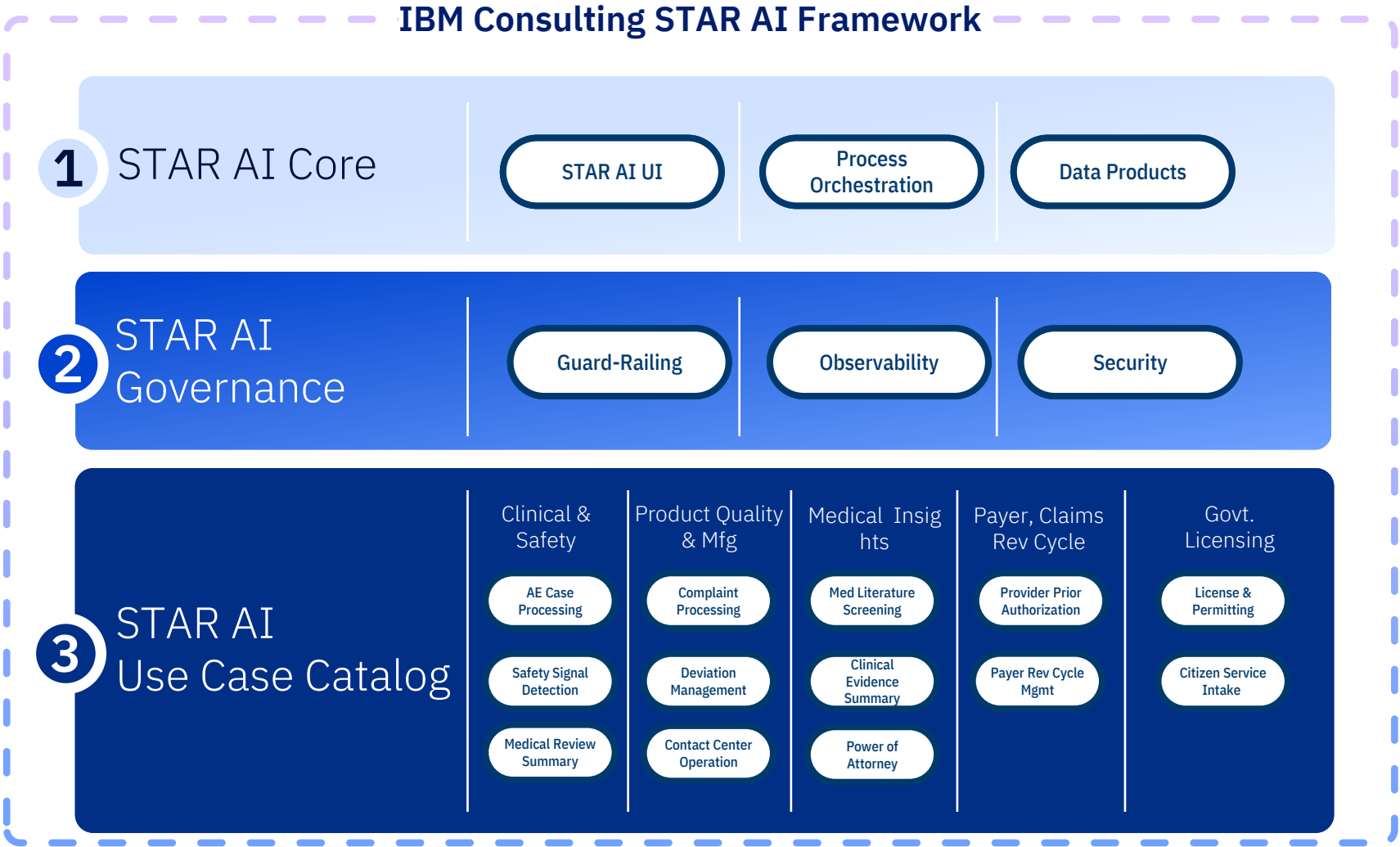
AI Core Accelerator Capabilities

STAR AI User Interface	• Unified, intuitive workspace enabling fast, confident case navigation and analysis.
Agentic AI Automation	• AI copilot that recommends actions, summarizes cases, and automates workflows for faster decisions.
Domain Intelligence	• Specialized models extract entities, detect risk, and deliver safety, quality, and compliance insights.
Document Intelligence	• Converts unstructured documents into structured, actionable data via OCR, extraction, and summarization.
Data Synchronization	• Real-time updates across systems ensure accuracy for both AI and human inputs.
Governance & Compliance	• Built-in explainability, auditability, and permissions for traceable, regulatory-ready AI operations.
Admin & Composer	• Low-code tools to configure workflows, manage users, and orchestrate automation—no coding required.
Case Intake, Processing & Management	• Automated ingestion, de-duplication, translation, and routing to accelerate case lifecycle.

**64 Core Features Out of the Box*

STAR AI Core Component Model

- Composable architecture separates core services from domain modules, enabling rapid extension and reuse.
- Governance framework integrates with enterprise security, observability, and compliance tooling to ensure safe AI operations.
- Use case modules plug directly into the STAR AI Core, leveraging shared orchestration, UI, and data products.
- Cloud-native foundation ensures scalability, integration flexibility, and performance across regulated environments.



HLS STAR

Agentic AI: Logical Architecture

