

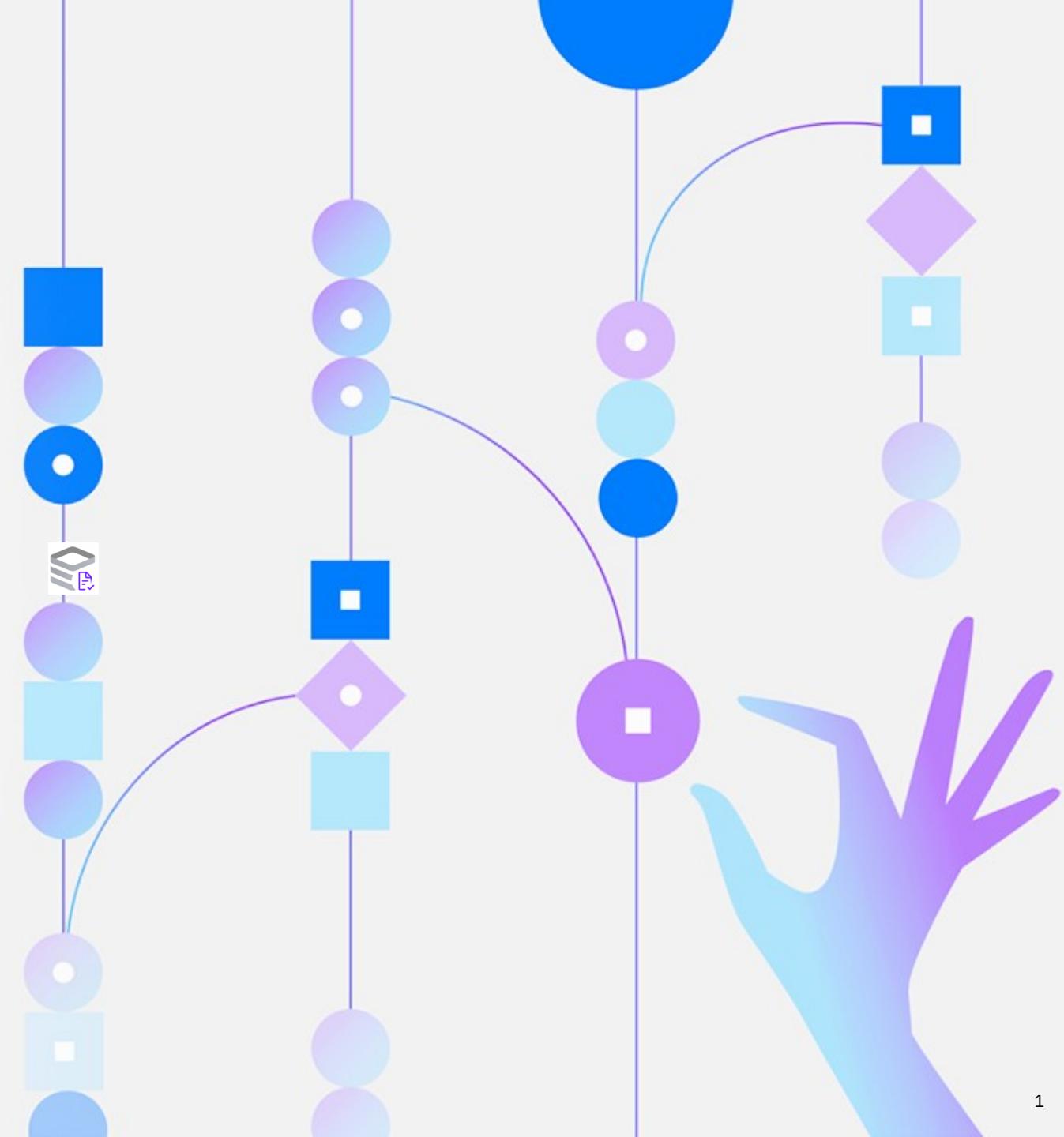


STAR Agentic AI
For HLS

STAR-AI:

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

IBM Consulting, November 2025





AI-Led Business Value

The Tangible Benefits and Value of STAR Agentic AI.

Discover how our platform delivers significant improvements in efficiency, compliance, and cost savings across HLS operations.

Personas



Regulatory
Change Manager



Compliance
Office



Corporate Policy
Consul



Compliance
Product Owner

Use Case Portfolio

Regulatory Policy Automation
Automated extraction from approved regulatory sources
Scalable AI summarization for compliance, legal, product teams
Continuous alignment with evolving policies and regulations
Human-in-the-loop synthesis of requirements and user stories
Knowledge Engine with built-in traceability and scoring

Medical Insights Generation

Automated insight extraction from literature, social signals, clinical data
Scalable AI summarization for medical and commercial teams
Regulatory-aware narrative and business alignment
Human-curated synthesis with quality scoring
Traceable, scalable Knowledge Engine

Data Quality & Insight Management (DQIM)
Golden Record generation (>95% auto-merge accuracy)
Automated match resolution, lineage tracking, discrepancy analysis
Co-pilot guidance for data stewards
Modular rule integration and MDM plug-ins

Pharmacovigilance (PV) Automation
Automated AE case intake and triage (email, portals, EHR)
Narrative generation and regulatory form population
Integrated coding, seriousness assessment, causality review
End-to-end automation for speed, consistency, and compliance



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

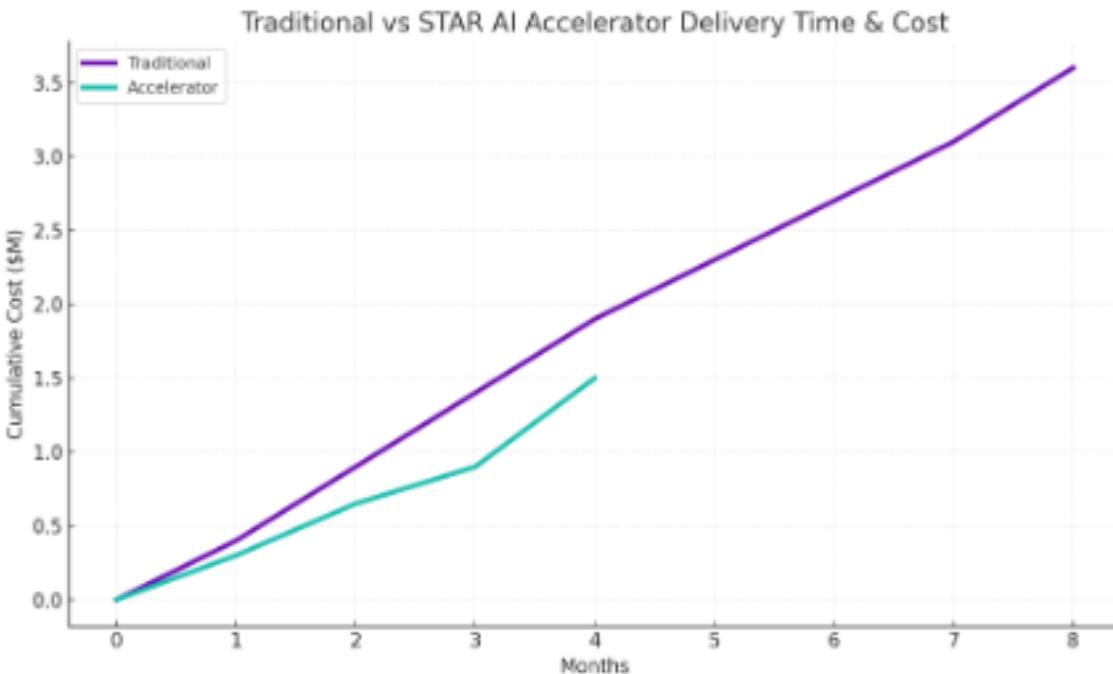


Figure: Delivery Time (Months) & Cost (\$M) of Traditional & STAR AI Accelerators.

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.

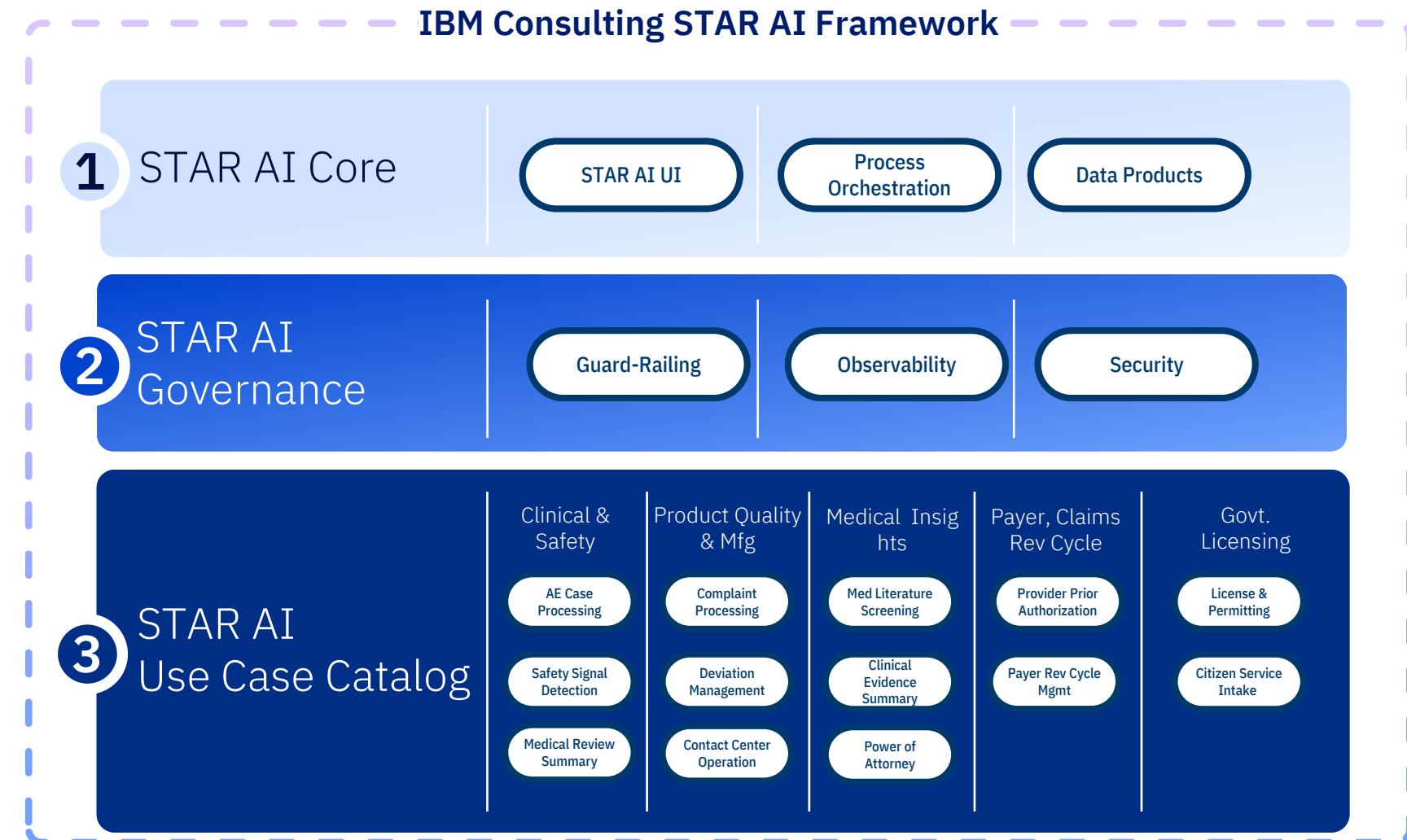
Case Intake, Processing & Management

- 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

