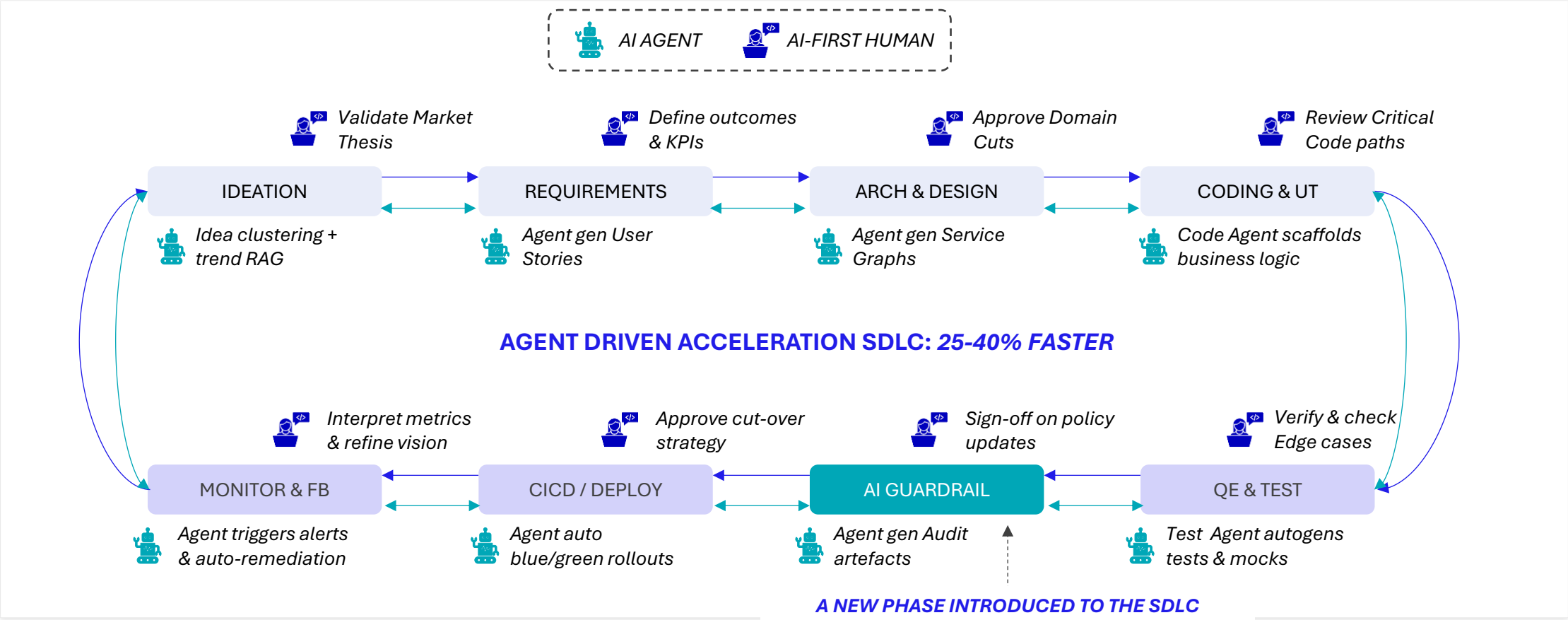


# AI-First Engineering approach

EVERY SDLC PHASE SHIFTS FROM A LINEAR RELAY TO A CONTINUOUS, CIRCULAR FLYWHEEL

The AI agents and AI-enabled human, create a mastery of intelligent, intuitive & well-governed deliverance



# App Engineering: AI-first Execution Approach



Agentic Task



Manual intervention

## Migration Workbench

- Legacy code assessment and discovery
- Code reverse engineer agents

- Code Migration Plan
- Migrating VBScript to REST API code
- Unit test case generator

- UI code generation
- Unit test case generator

- Integration testing
- Functional workflow testing
- Defect fixing agent

- CI/CD Agent
- IaC creation agent
- Monitoring agent

### Legacy Code Discovery Agent



Automatically scans Classic ASP files, extracts VBScript functions, Typescript files, database calls, and business logic patterns



Maps business logic, data flows, and generates comprehensive code inventory for migration planning



Reviews discovered patterns for accuracy and provides domain-specific context about business rules

### Classic ASP (VBScript) Migration



Dependency analysis



Creates RESTful controllers, DTOs, and service classes from VBScript logic



Reviews API design for consistency with existing architecture and approves endpoint structure



Review compliance with healthcare security Standard

### Client-side Code Migration



Generates React components with TypeScript from HTML forms and JavaScript



AI-Agent driven code/test case generation for:

- UI screens
- Code optimization
- State management and security features
- Unit test case generation
- Functional Test case creation and automation script generation



Classification of test cases between functional and regression testing



Review UI design, State management and compliance with security standards

### Validation and Testing



Execute Automated Regression Tests



Execute UAT



Document and Report Findings



Validates migration quality, performance benchmarks, and healthcare compliance requirements

### Deployment Agent



Set up CI/CD pipelines for automated build, test, and deployment



Define infrastructure using code (Terraform, Ansible, etc.)



Automate environment provisioning and configuration



Manages environment configurations, secrets, etc



Monitor deployments based on feature flaf and ensure rollback mechanisms

### AI Enablement - Foundation



Automation patterns identification



LLM finalization



Evangelization of Agents



Agent creation based on patterns



Contextualization of agents