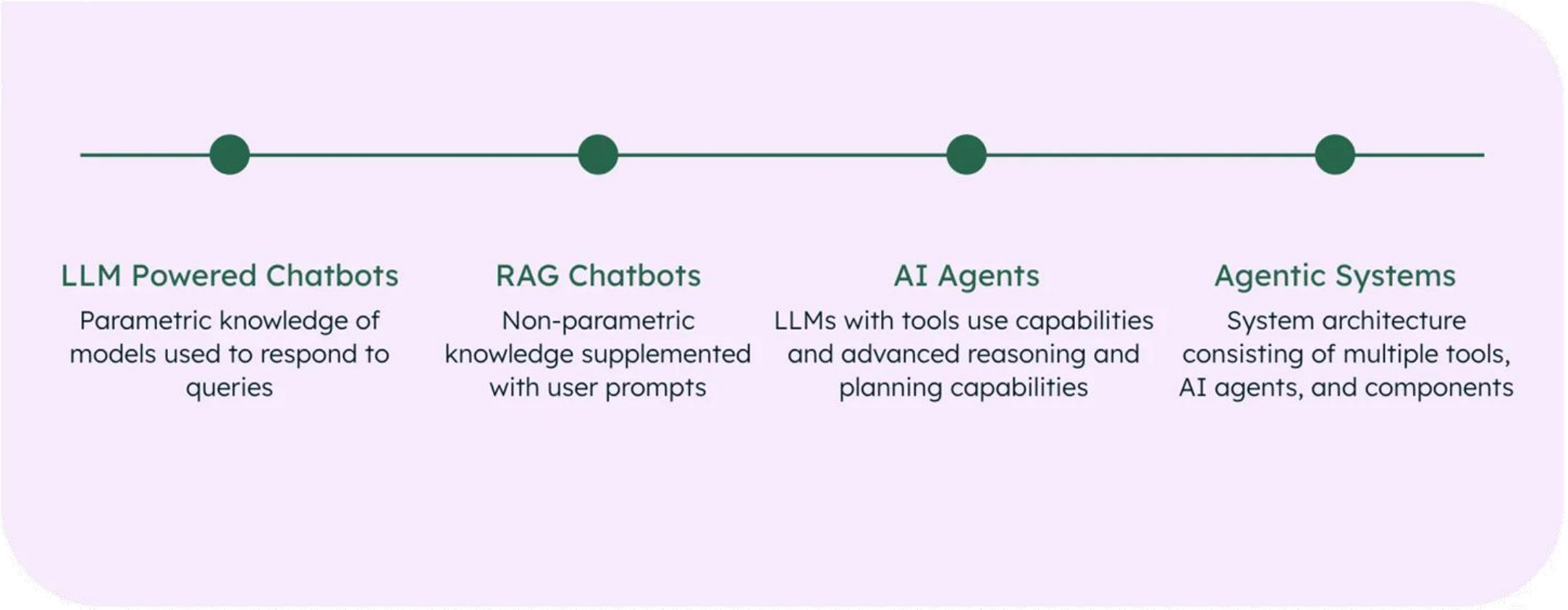
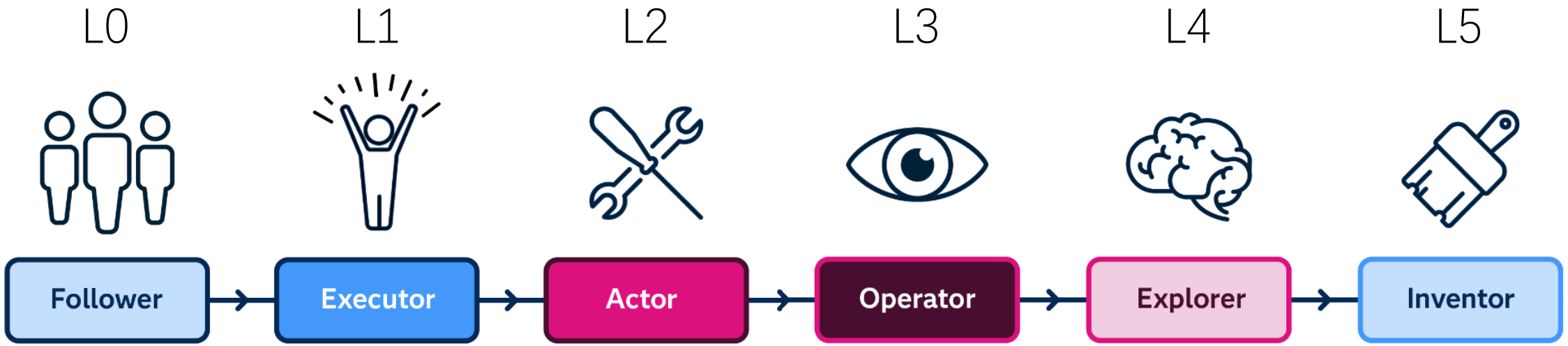
Intelligence Features of SAS Viya Clinical Data Science Platform

From LLM to Agentic AI



6 Levels of Agentic AI Behavior



A tiny bit of autonomy

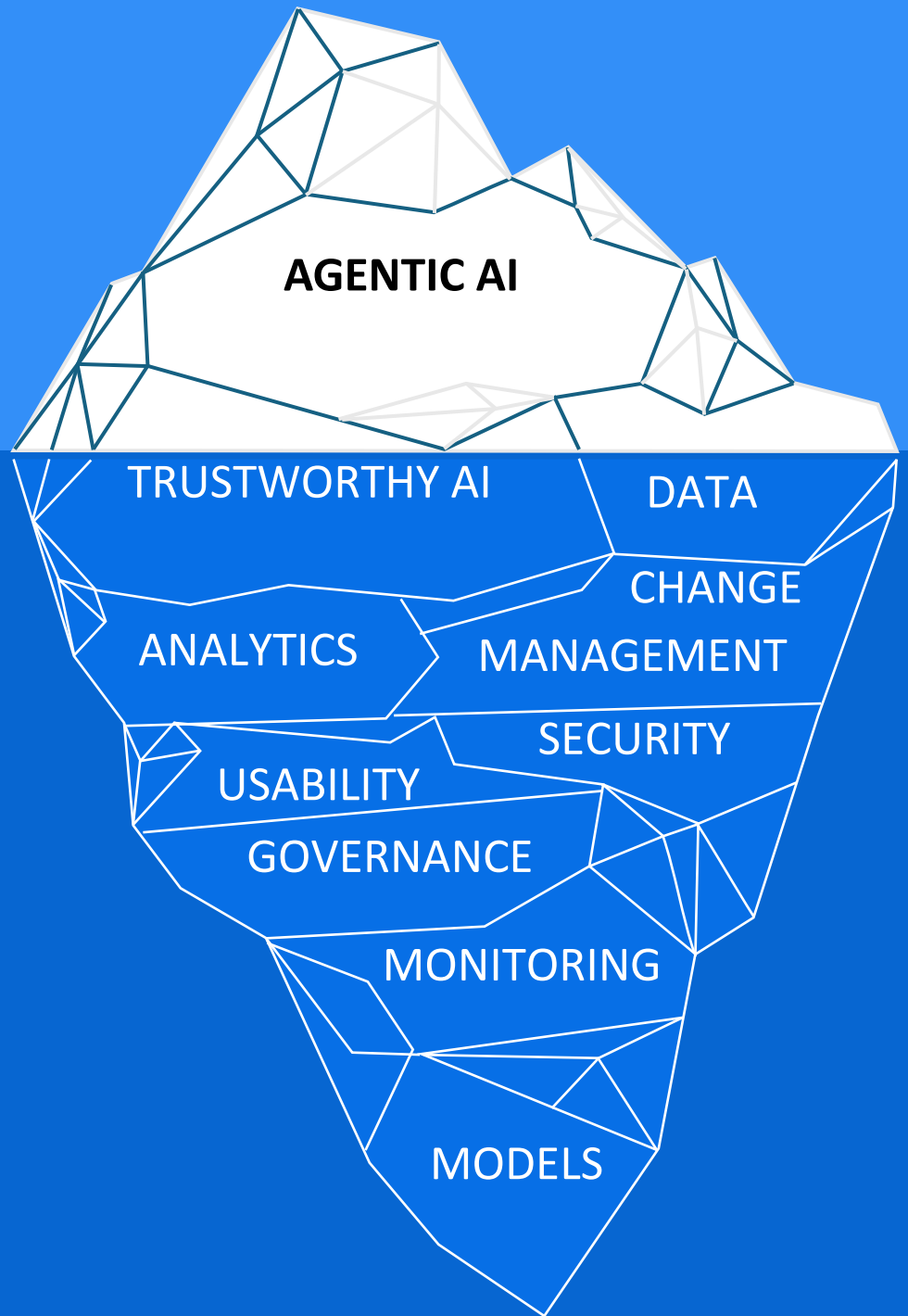
Uses external tools and executes

Evaluates and plans execution

Fully autonomous and behaves like stateful systems

Creates its own logic

https://www.vellum.ai/blog/levels-of-agentic-behavior


AGENTIC AI
TRUSTWORTHY AI
DATA
CHANGE
MANAGEMENT
ANALYTICS
SECURITY
USABILITY
GOVERNANCE
MONITORING
MODELS

Enter RAG:

The Enterprise data: Knowledge base (1 of 2)

Retrieval-Augmented Generation
= search + generate

so outputs are **grounded** in your enterprise knowledge base

Why RAG matters to business:

Factuality & Trust
Model cites the source; reduces hallucinations

Freshness
Pulls latest policies/specs at answer time—no retraining

Governance
Keeps enterprise access controls & auditing in the loop

Flexible
Not locked to a specific AI model

Enter Agents:

The Enterprise Game-Changer (2 of 2)

AI Agents = reason + act

so systems don't just answer – they can decide and act

Why Agents matter to Business:

Autonomy & Action

Move from answering to acting — trigger workflows, updates, or decisions automatically

Personalization

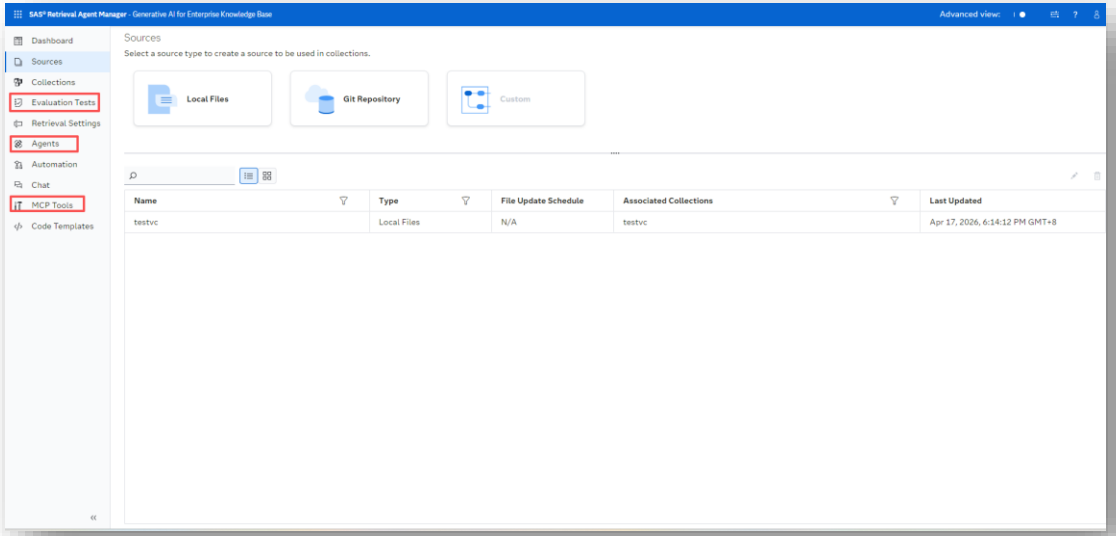
Tailor responses as per Organizational context

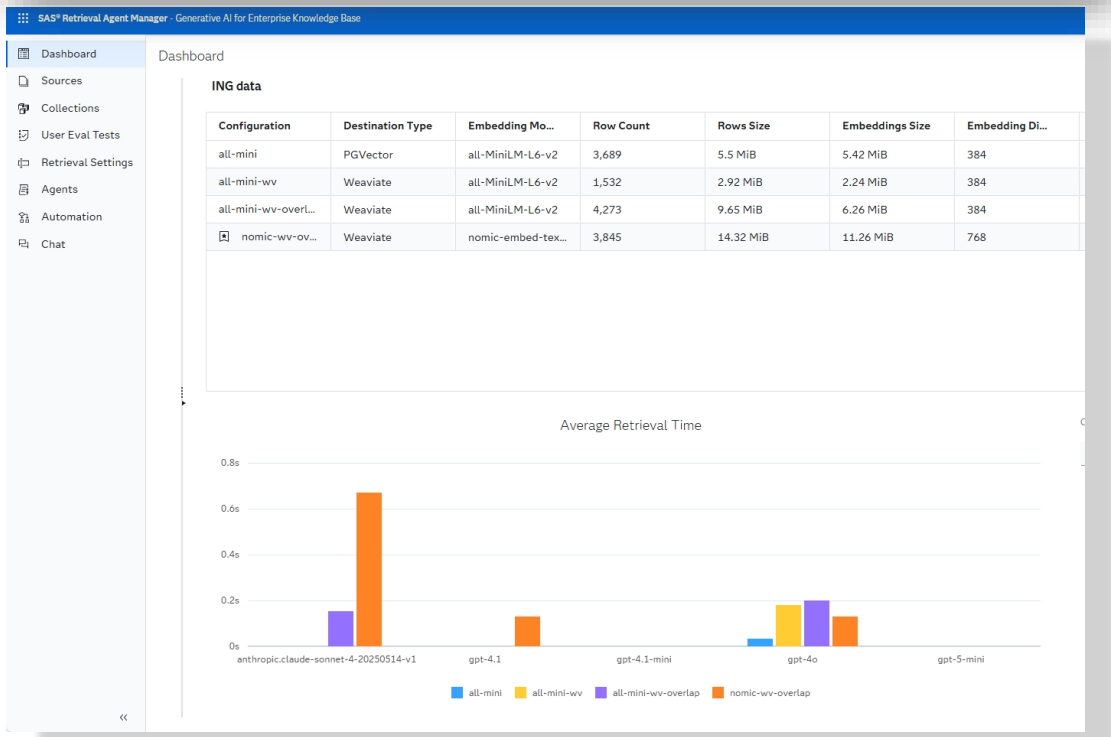
Adaptability

Evaluate results, adjust strategies and improve in dynamic environments

Governance

Keeps enterprise access controls & auditing in the loop





SAS Viya RAM

- RAG
- Agent
- MCP

Key Benefits

Time to value

- No-code Agents with MCP tools
- No-code, Intuitive UX-based RAG

Fit for purpose

- Full support for Chat, APIs, and Agents
- Configurable resource limits
- BYO Gen AI services

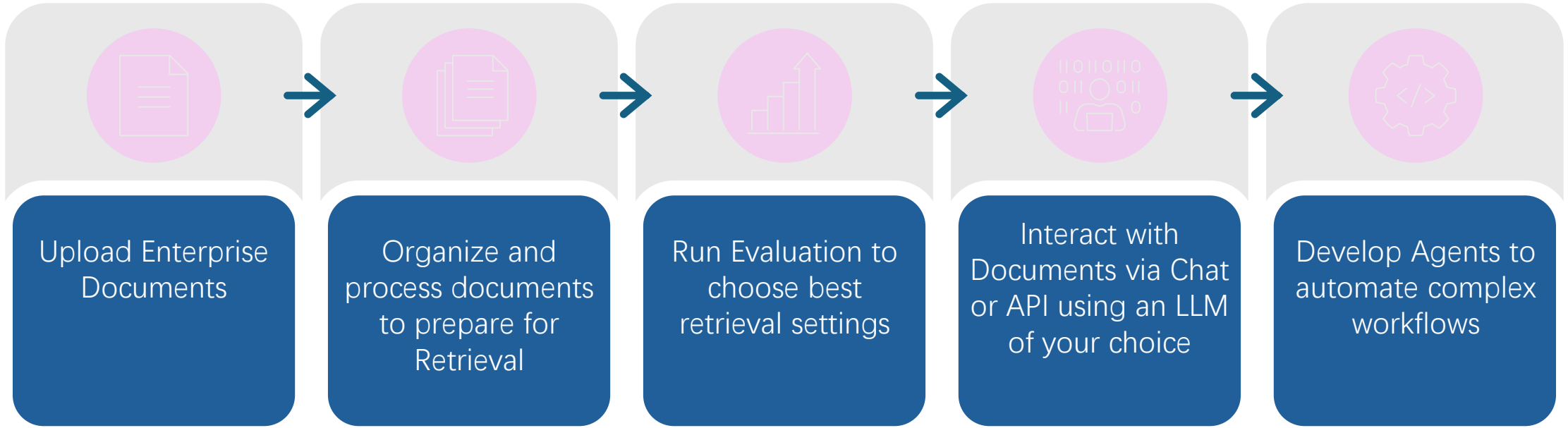
Answers You Can Trust

- Human in the loop workflow
- Agent* and RAG Evaluation
- Citations

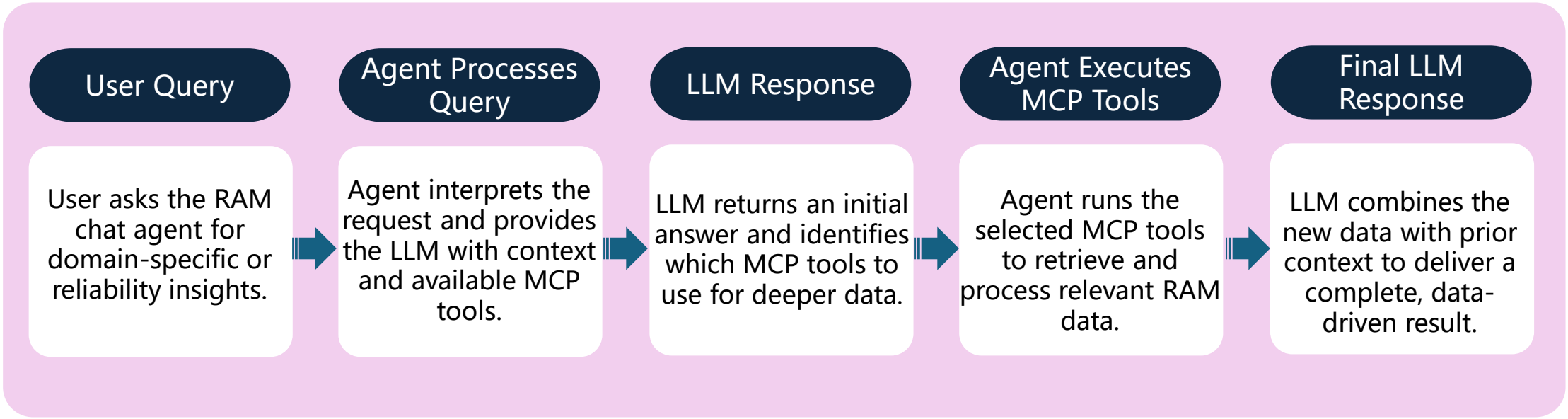
Operational Resiliency

- Agent Control & Observability
- Automated deployments/updates
- Automation for handling new data

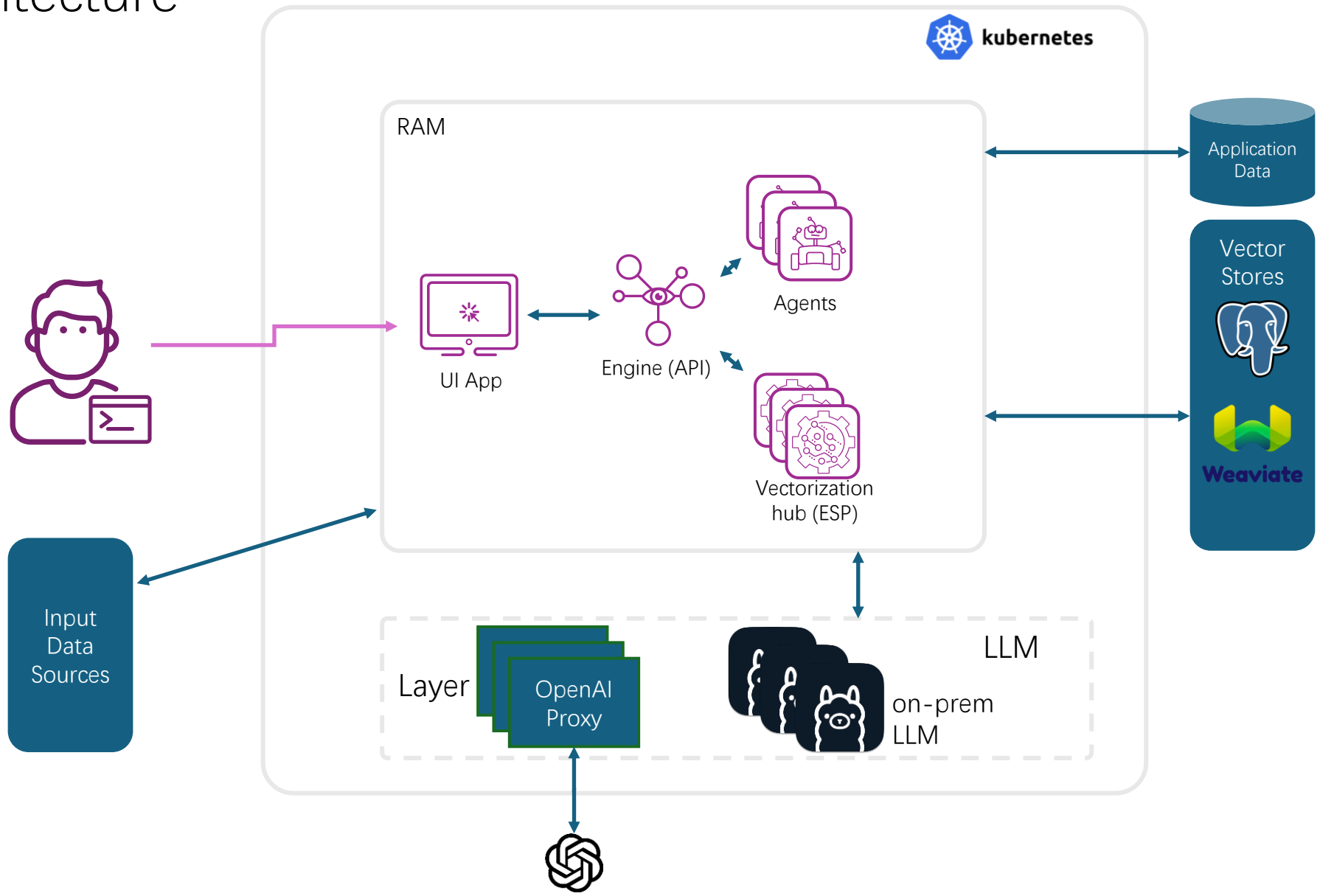
RAM:
Workflow



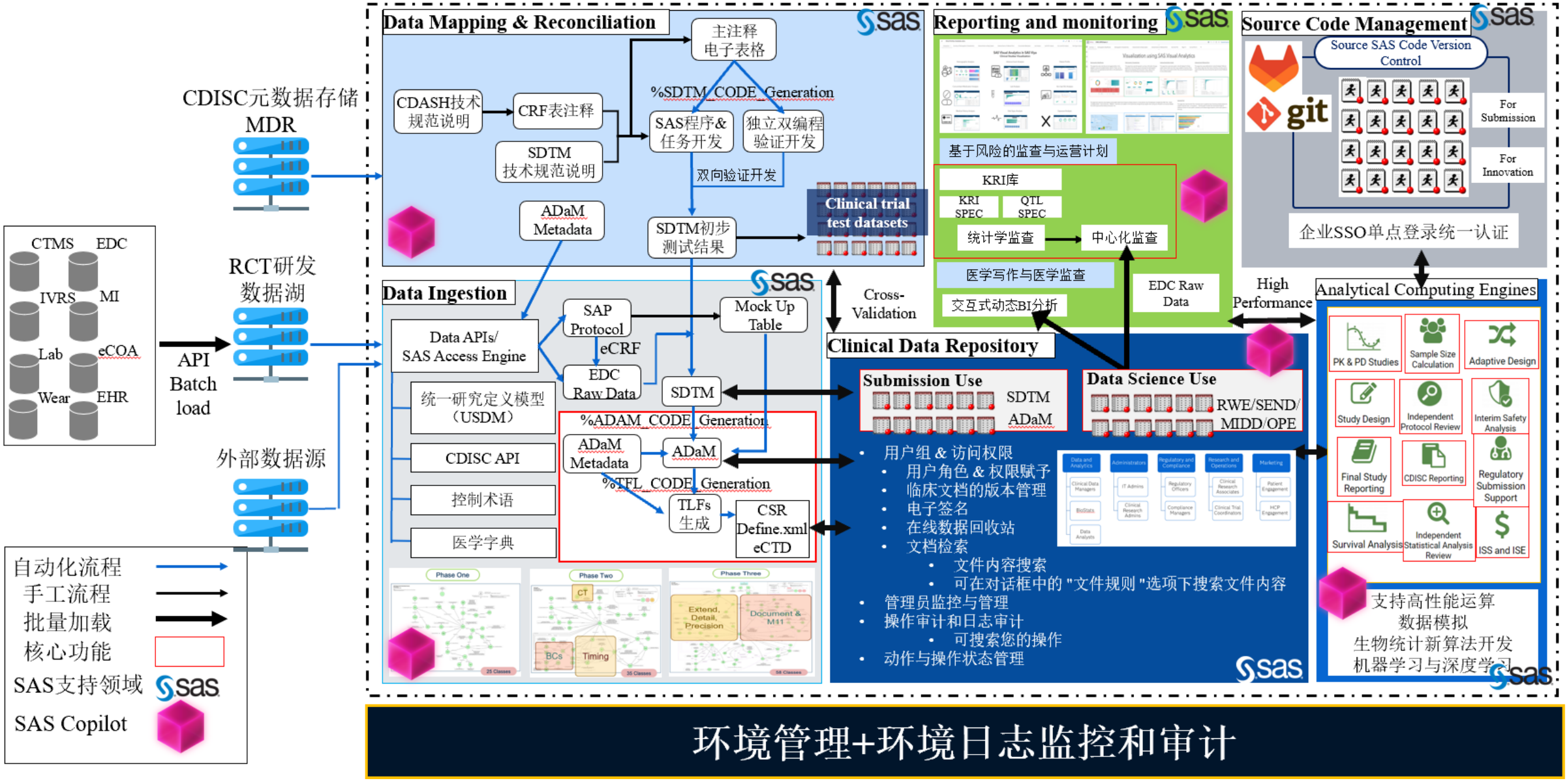
Agent workflow with MCP Integration



RAM: Architecture



现代化临床试验数据科学平台功能架构



User Benefits

Access to any data

Enterprise wide governed data access to leading cloud data platforms, relational and non-relational databases and popular file formats

Powerful data flows

Powerful reliable and transparent data pipelines for a single pane of glass view. ELT/ETL type of processing.

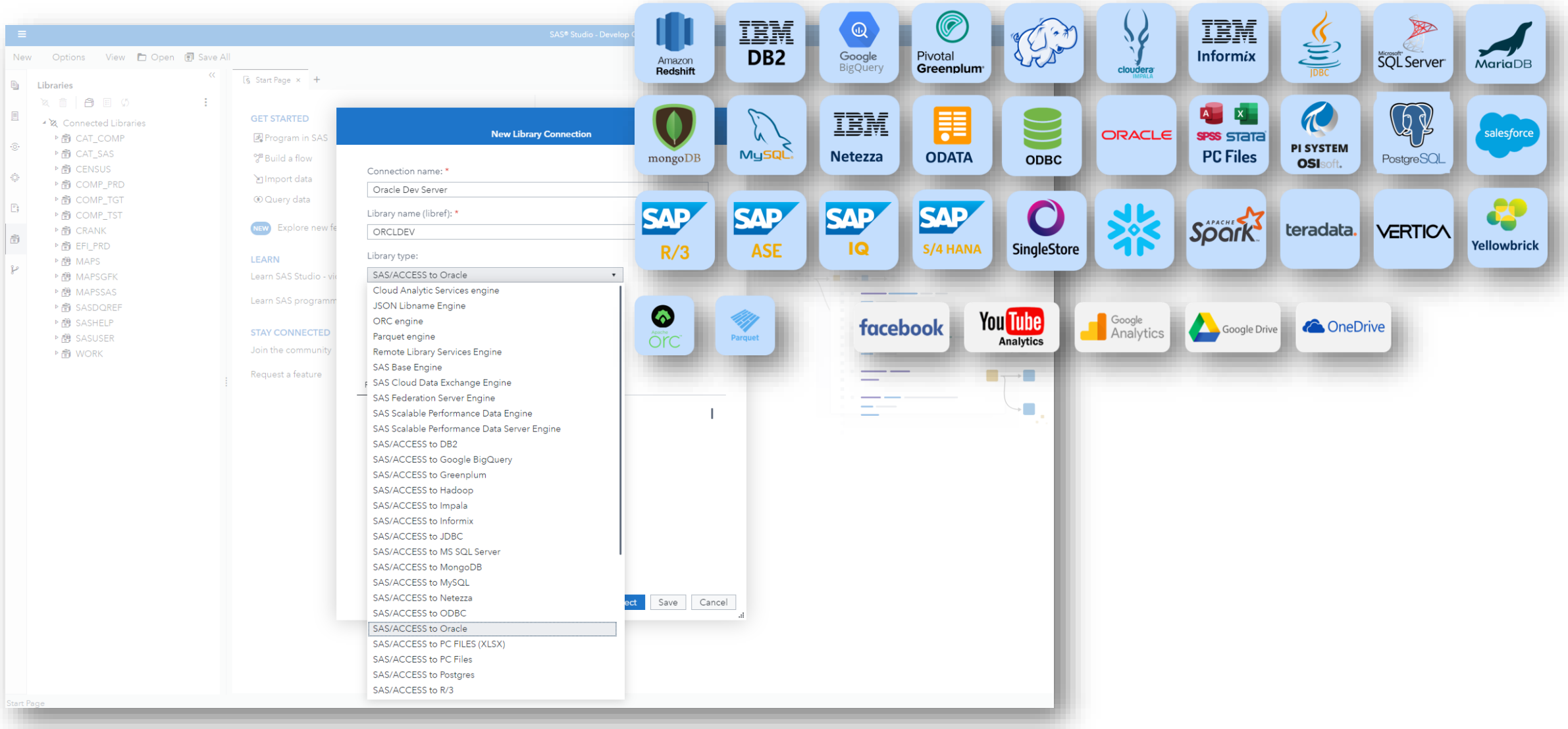
Open-Source Integration

Bring Python code assets in governed enterprise workflows. Wrap up siloed utilities in reusable and shareable visual steps.

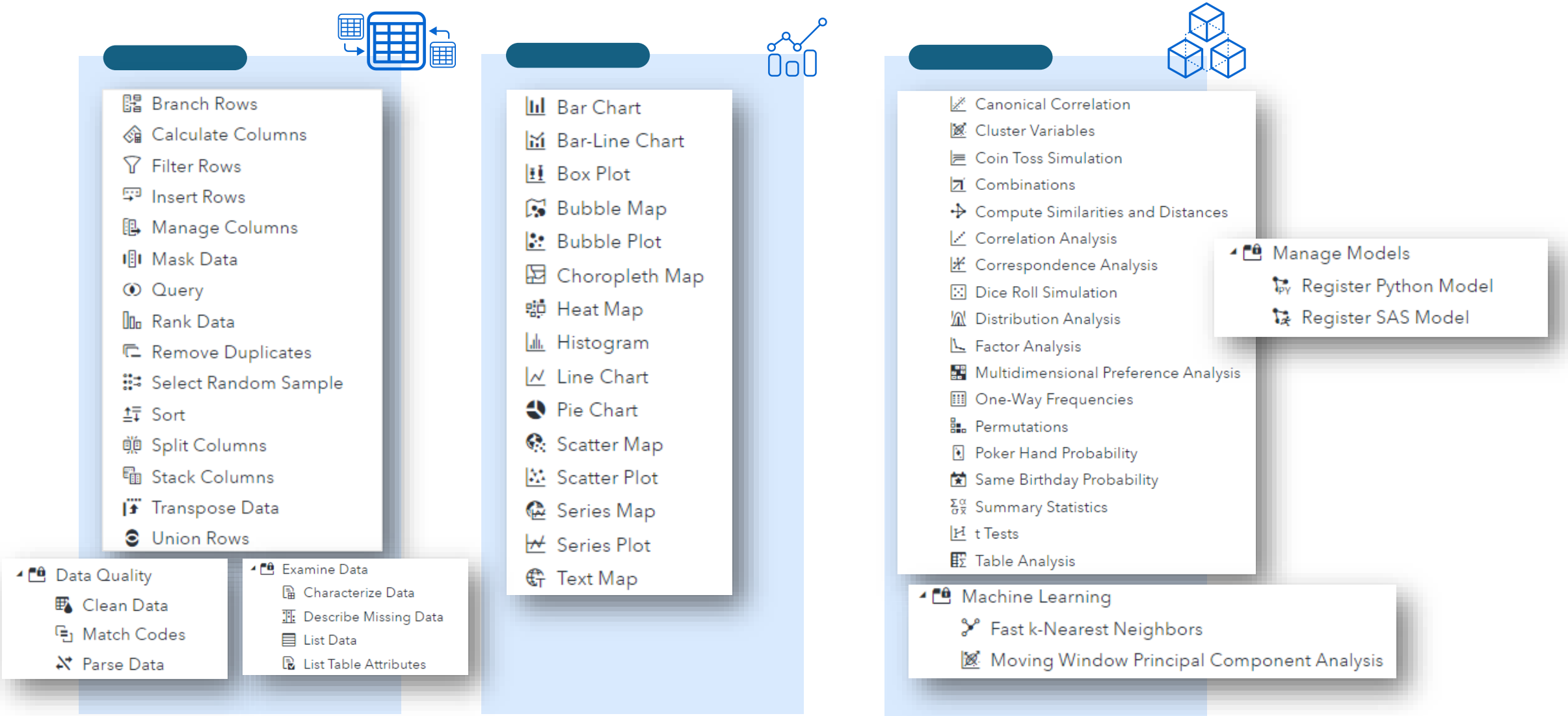
Seamless collaboration

Efficiently manage and orchestrate your project assets by using advanced Git integration.

80+ Connectors



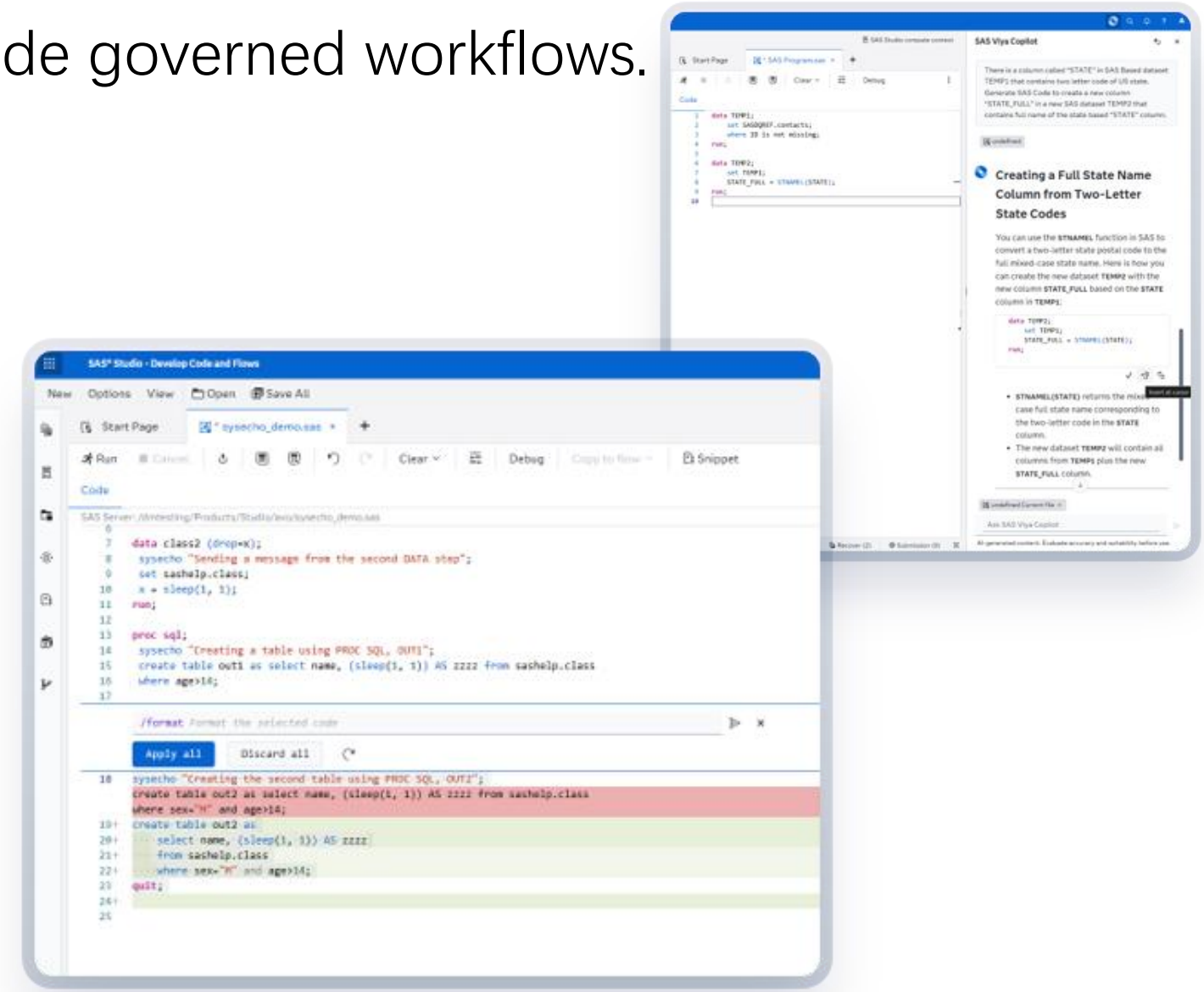
Wide collection of Flow steps



SAS Viya Copilot in SAS Studio

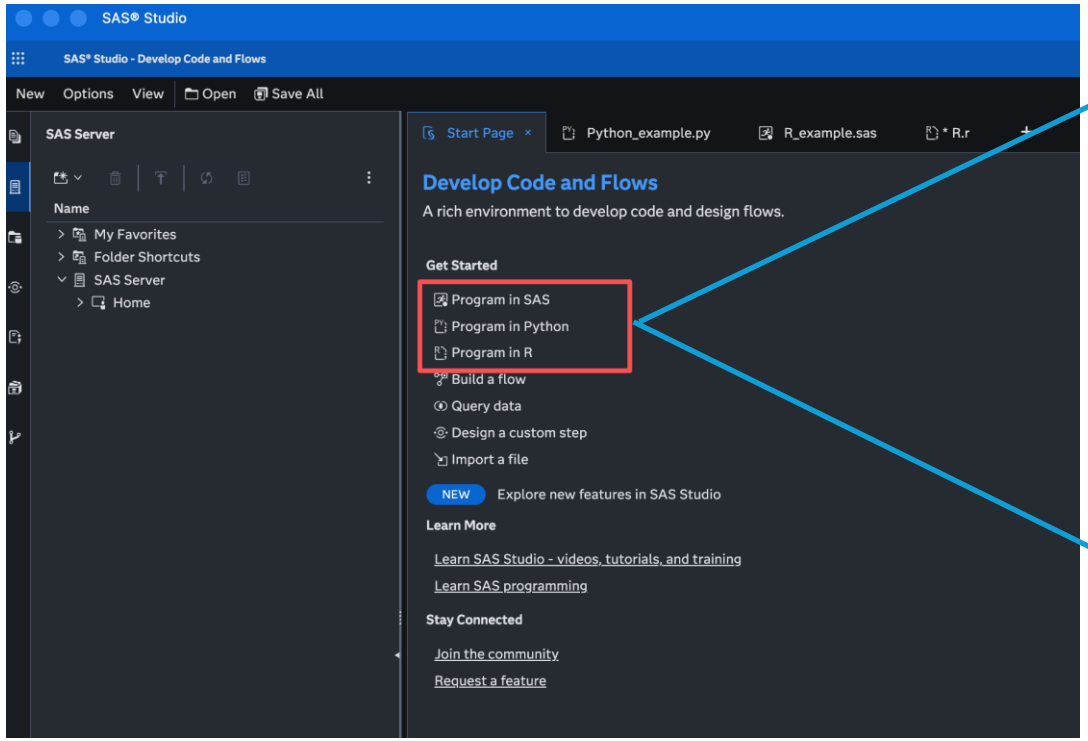
Embedding productivity inside governed workflows.

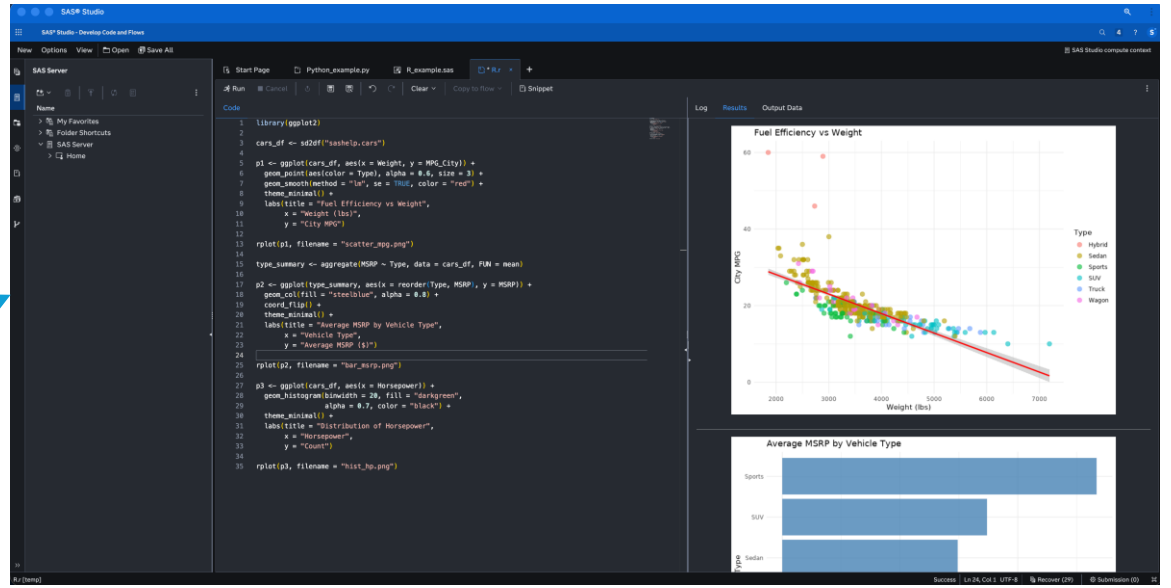
- **Context-aware by design—not generic code generation**: Understands the active program, flow, and session context to provide relevant, reviewable suggestions
- **Built for enterprise governance from the start:** Operates within SAS Viya security, permissions, and policy controls—no bypassing guardrails
- **Accelerates everyday developer workflows:** Reduces time spent interpreting legacy code, drafting boilerplate logic, and iterating safely

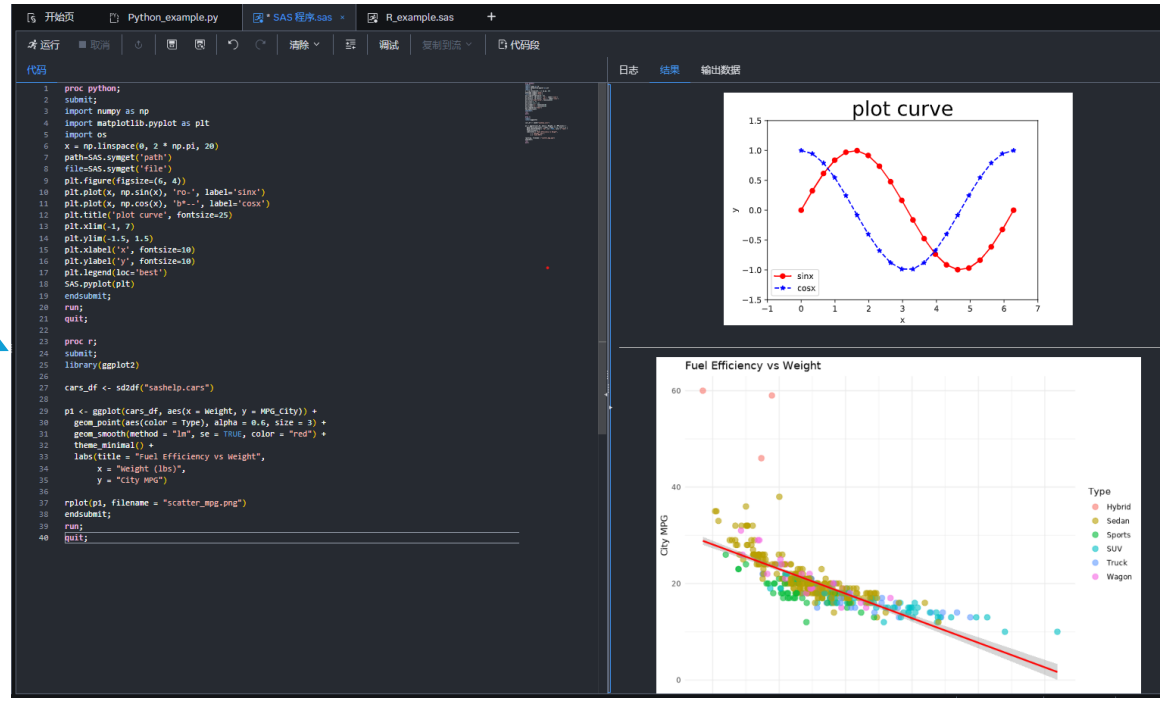


SAS & Python & R integration

Python & R Code Editor

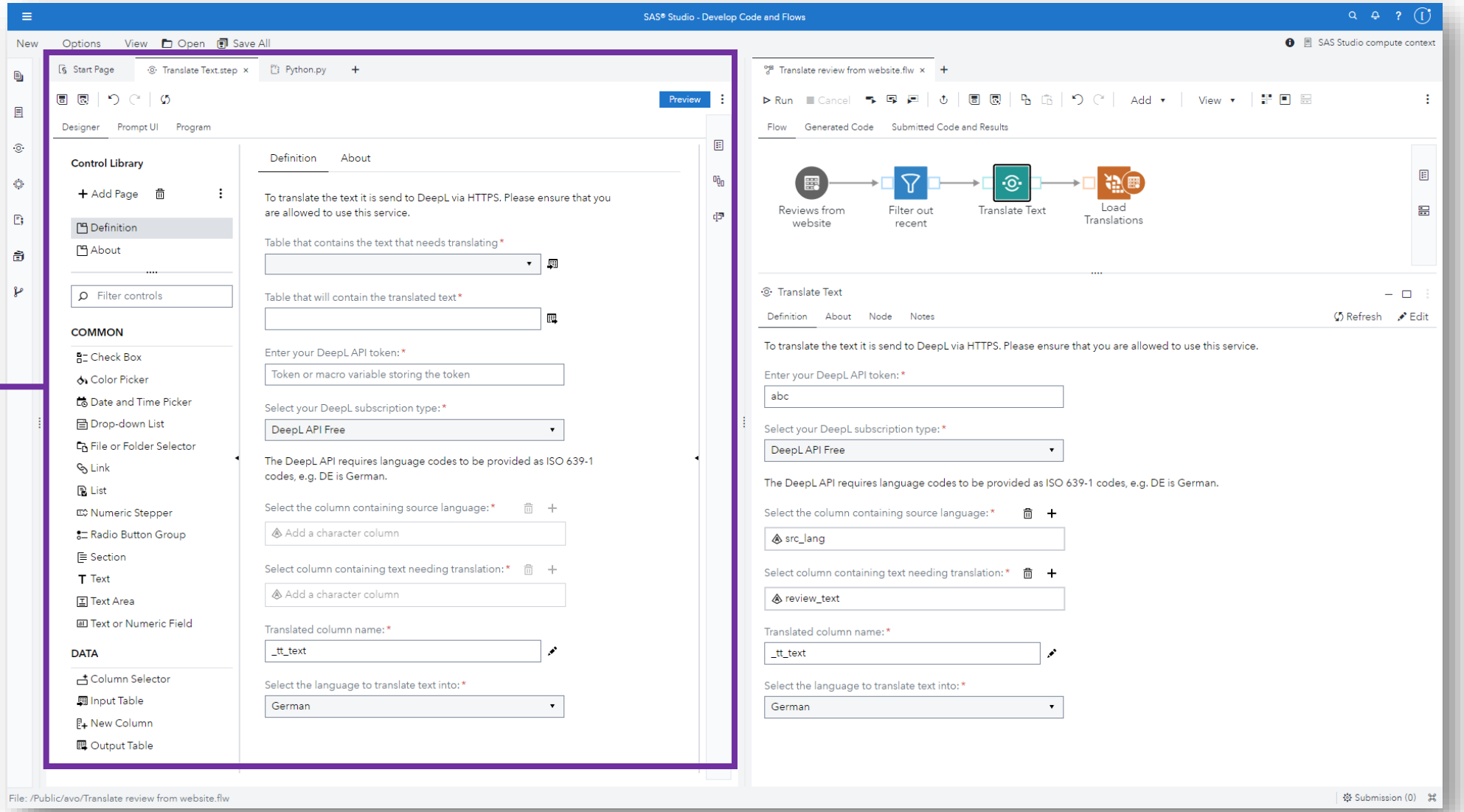






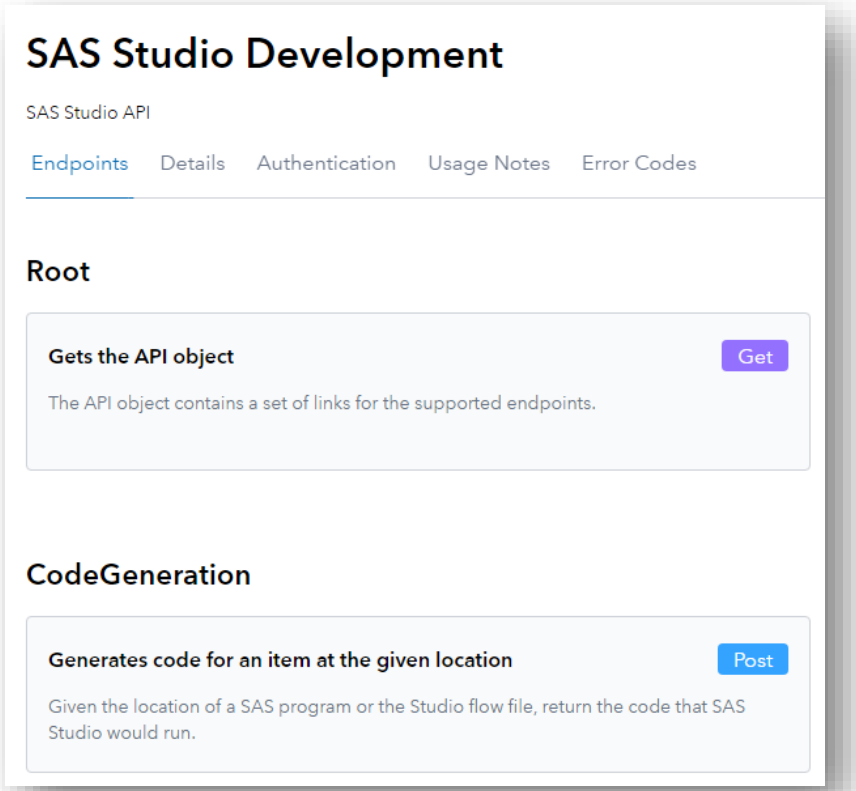
Custom steps

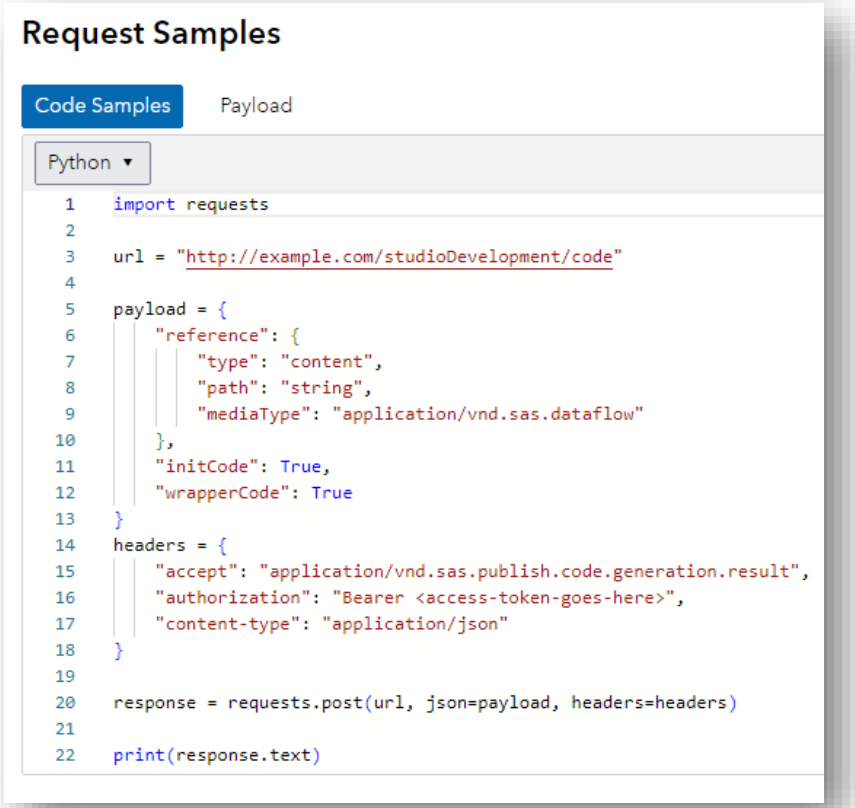
Design



APIs

Open API for Code Generation for Flows and Programs





Thank You