



Transforming Clinical Research with Generative AI in SAS Viya

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Agenda

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01

SAS Co-Pilots and Generative AI

SAS Viya overview, Viya Copilots

02

Specialized Industry Agentic Solutions

Clinical Data Transformation

OMOP Converter

03

Other Related Gen AI Offerings

SAS Viya MCP Server

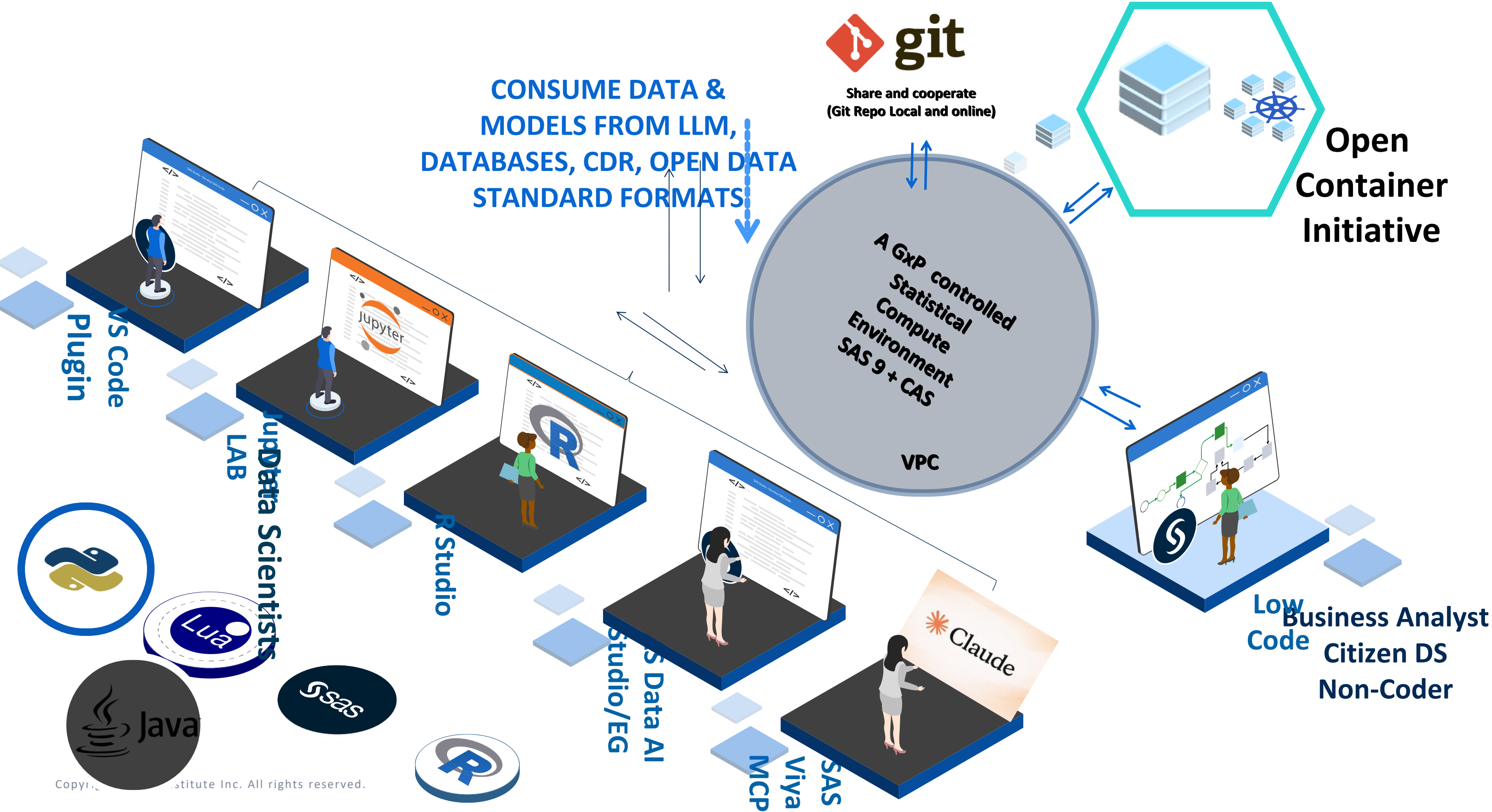
SAS RAM

04

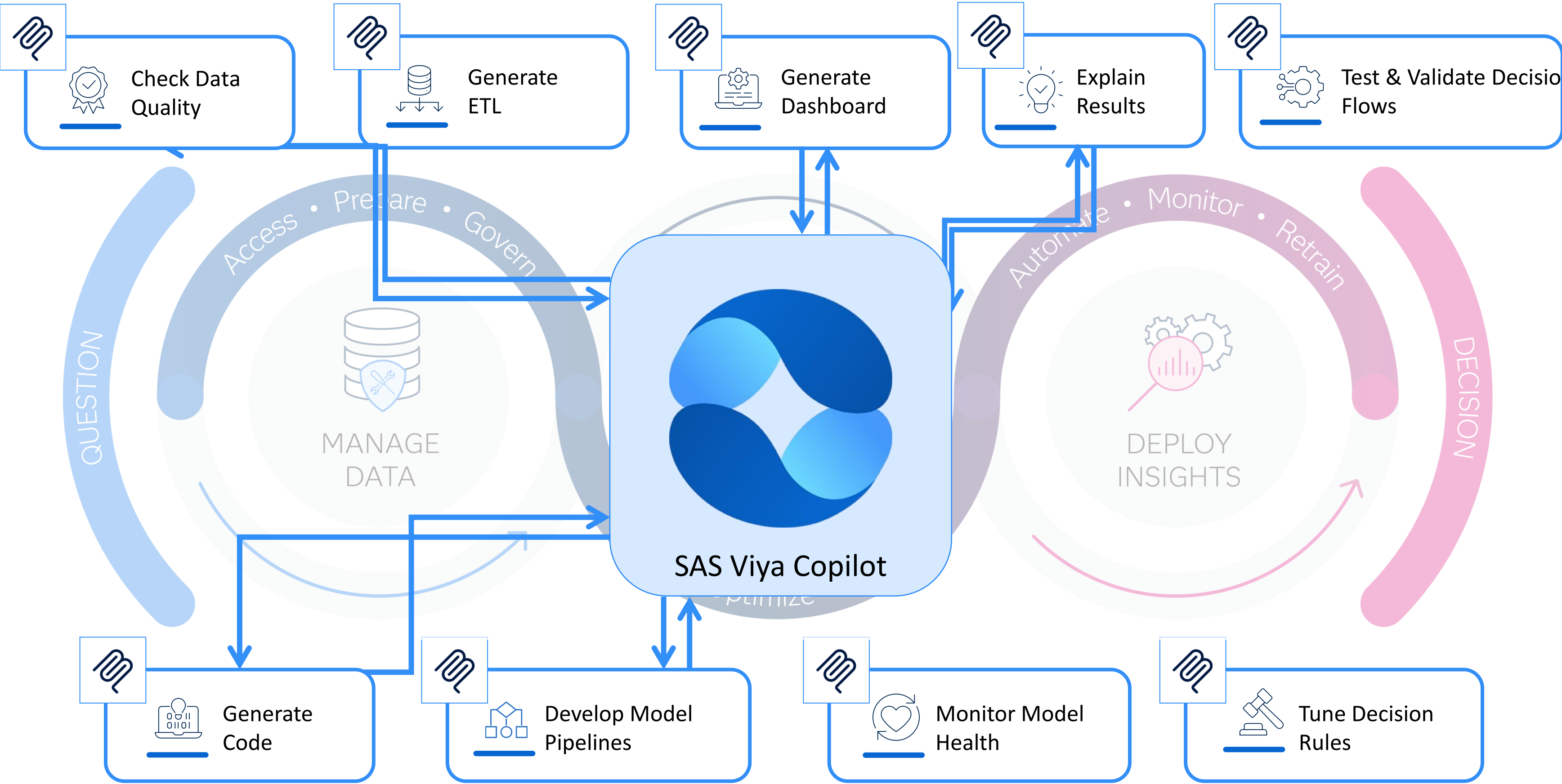
Q&A

SAS Viya: A Modern SCE Platform

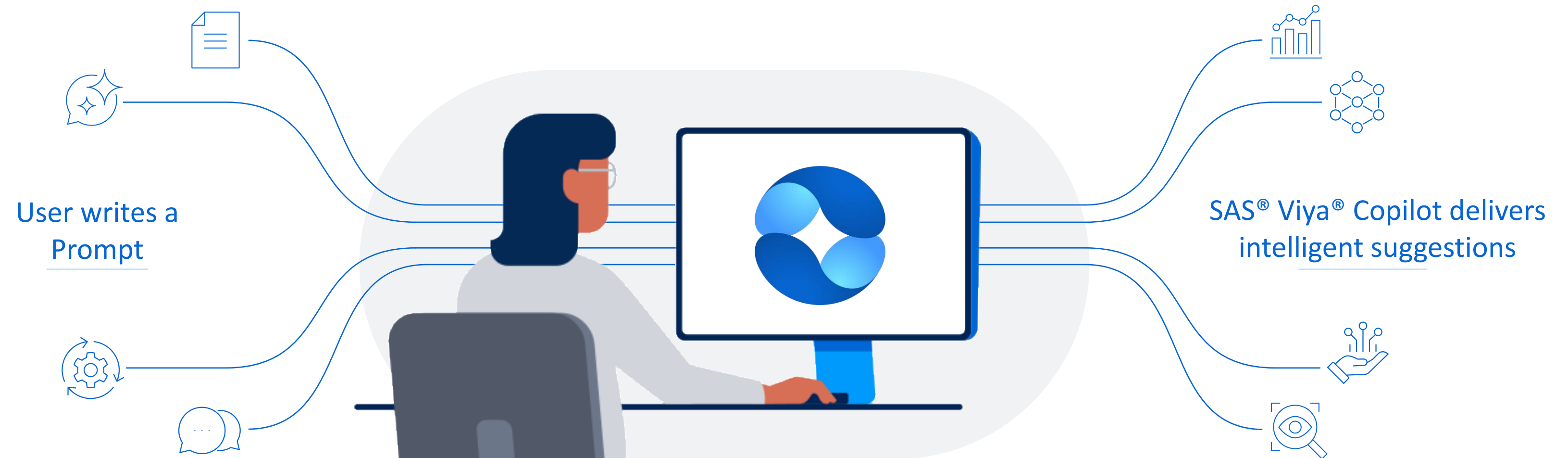
It is your one-stop-shop for all your analytic needs. A suites of product that does things like data engineering, data science, model building, model management and Programming (SAS/R/Python)



SAS Viya Copilot Portfolio



SAS® Viya® Copilot



With the latest GenAI tech

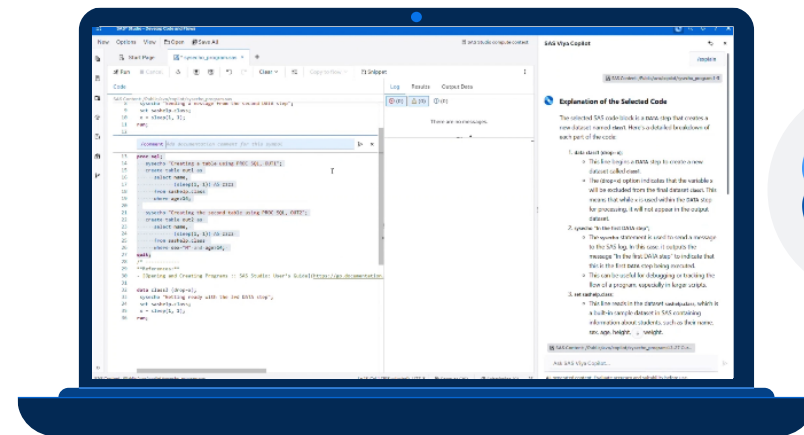
Large Language Model
Microsoft Partnership

SAS® Viya®
Knowledge Base

Trustworthy
and Secure

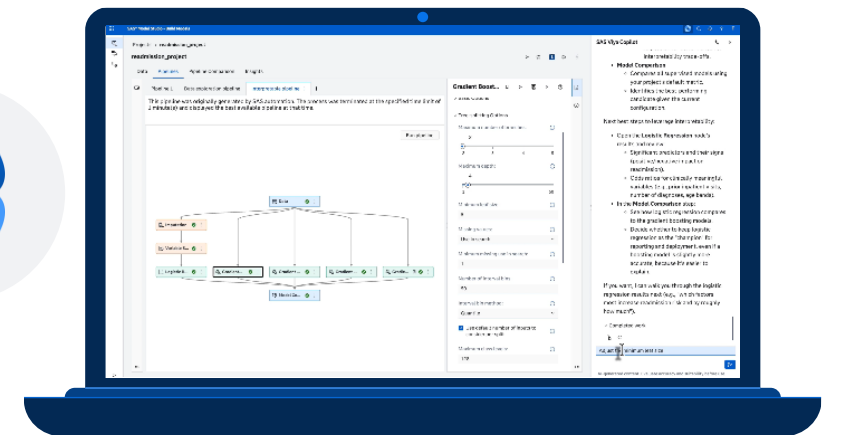
SAS Viya
Platform Experience

SAS® Viya® Copilots



Code generation, explain
comment

Build & deploy models



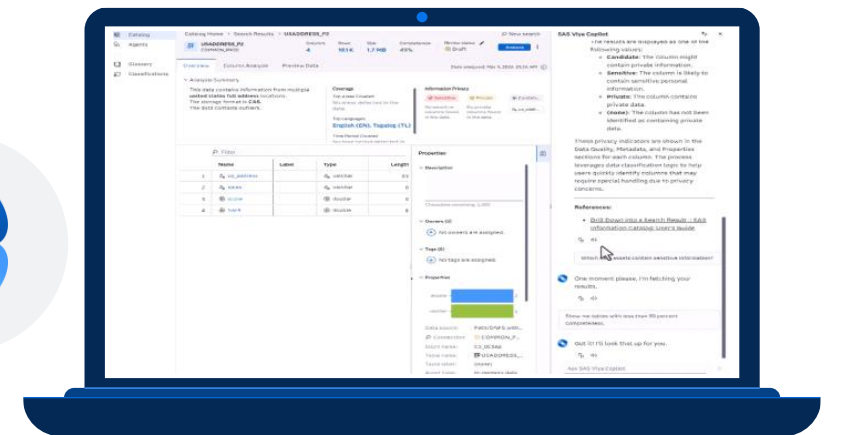
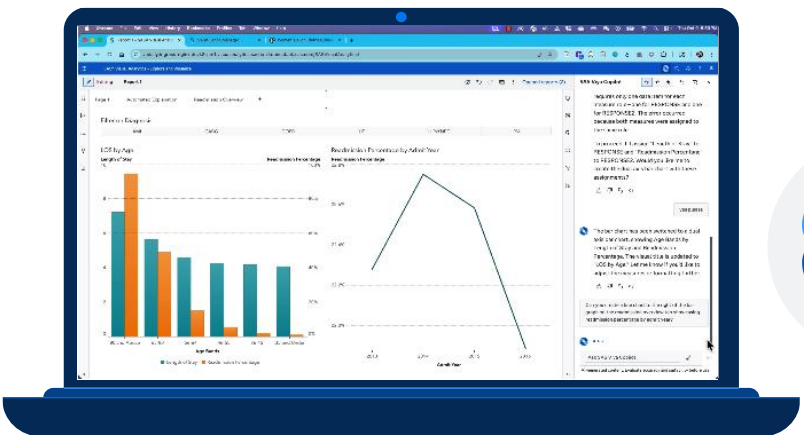
User writes a
Prompt

SAS® Viya® Copilot delivers
intelligent suggestions

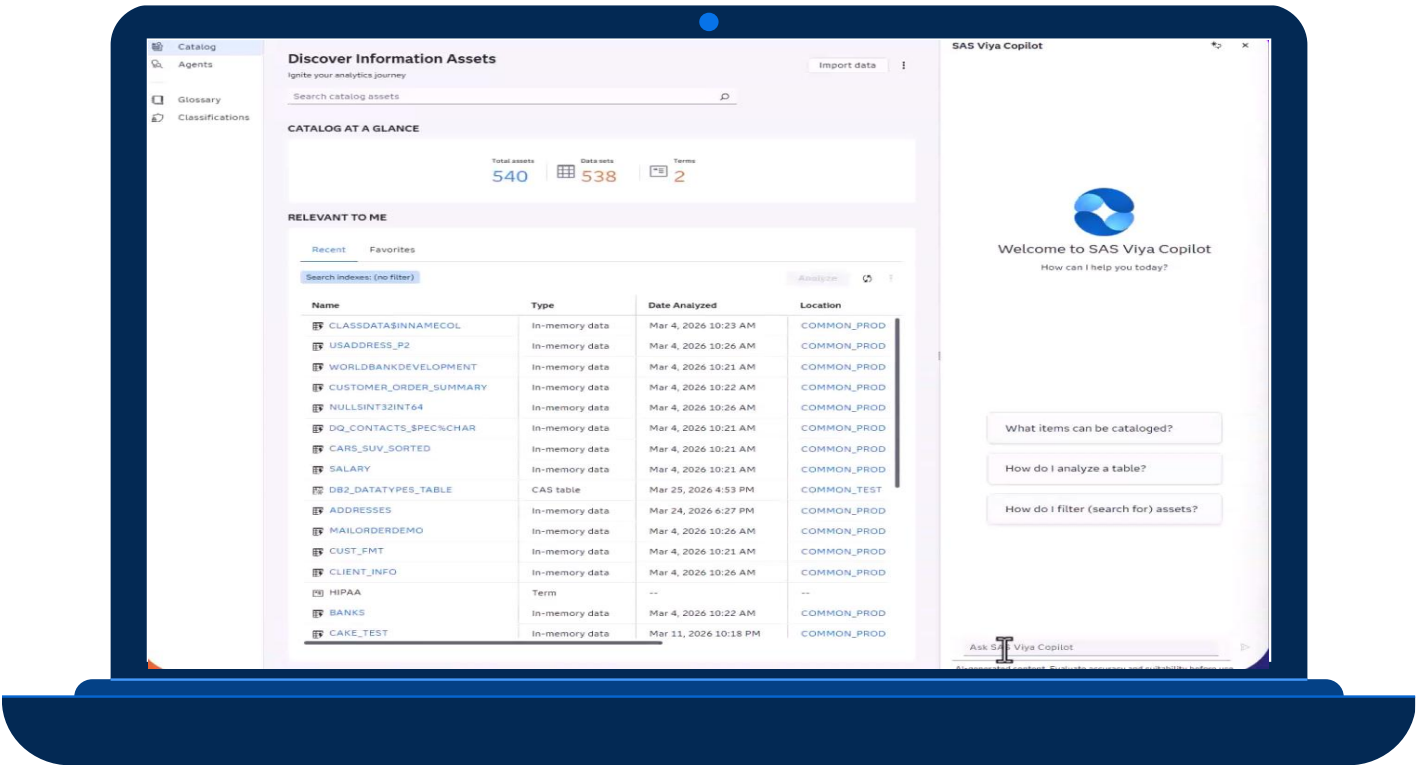
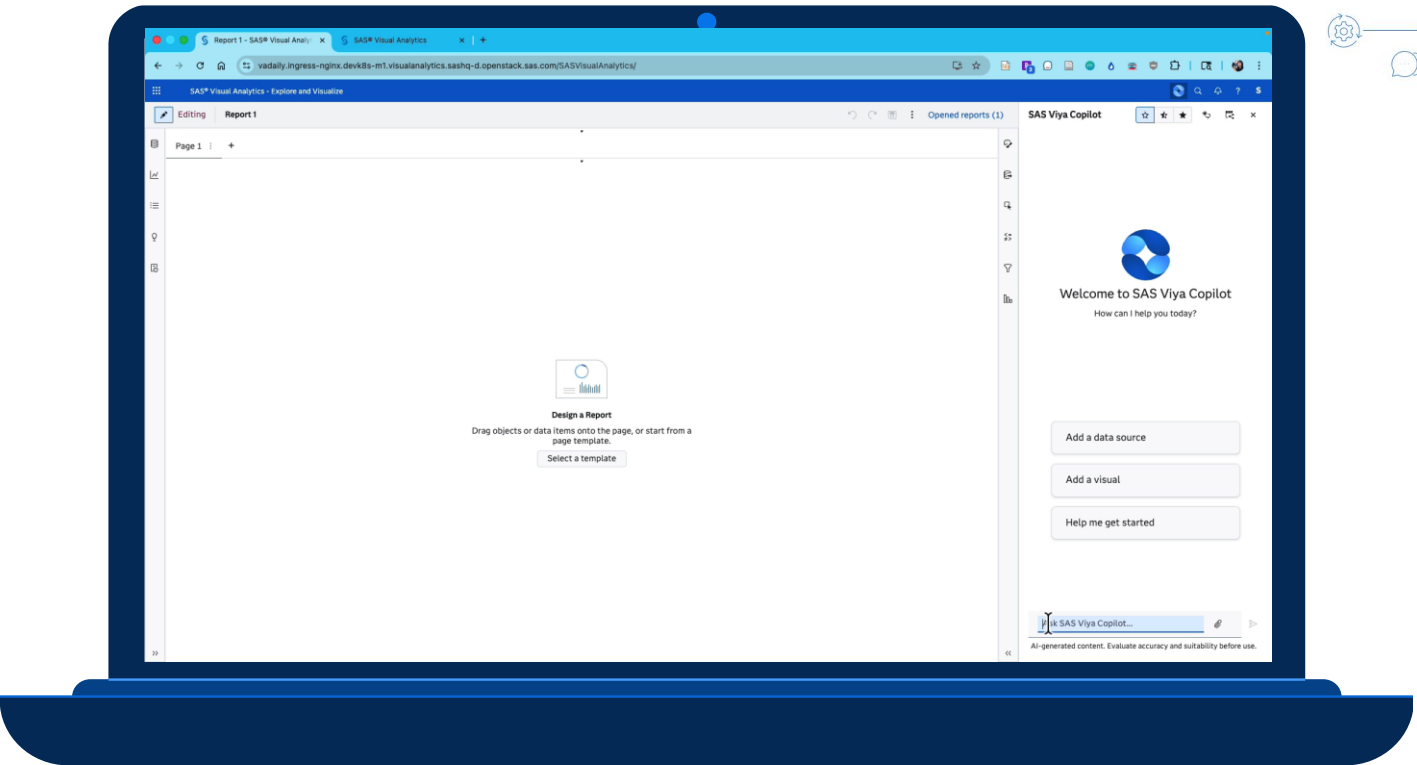
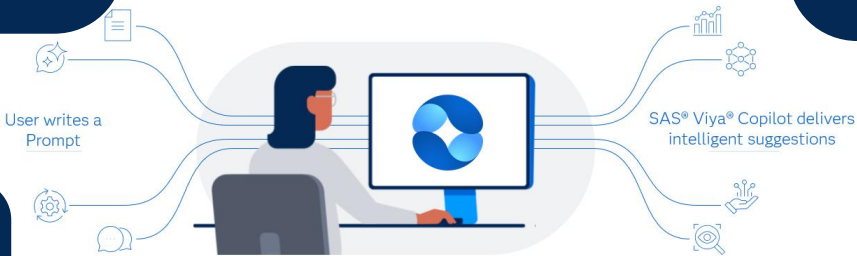
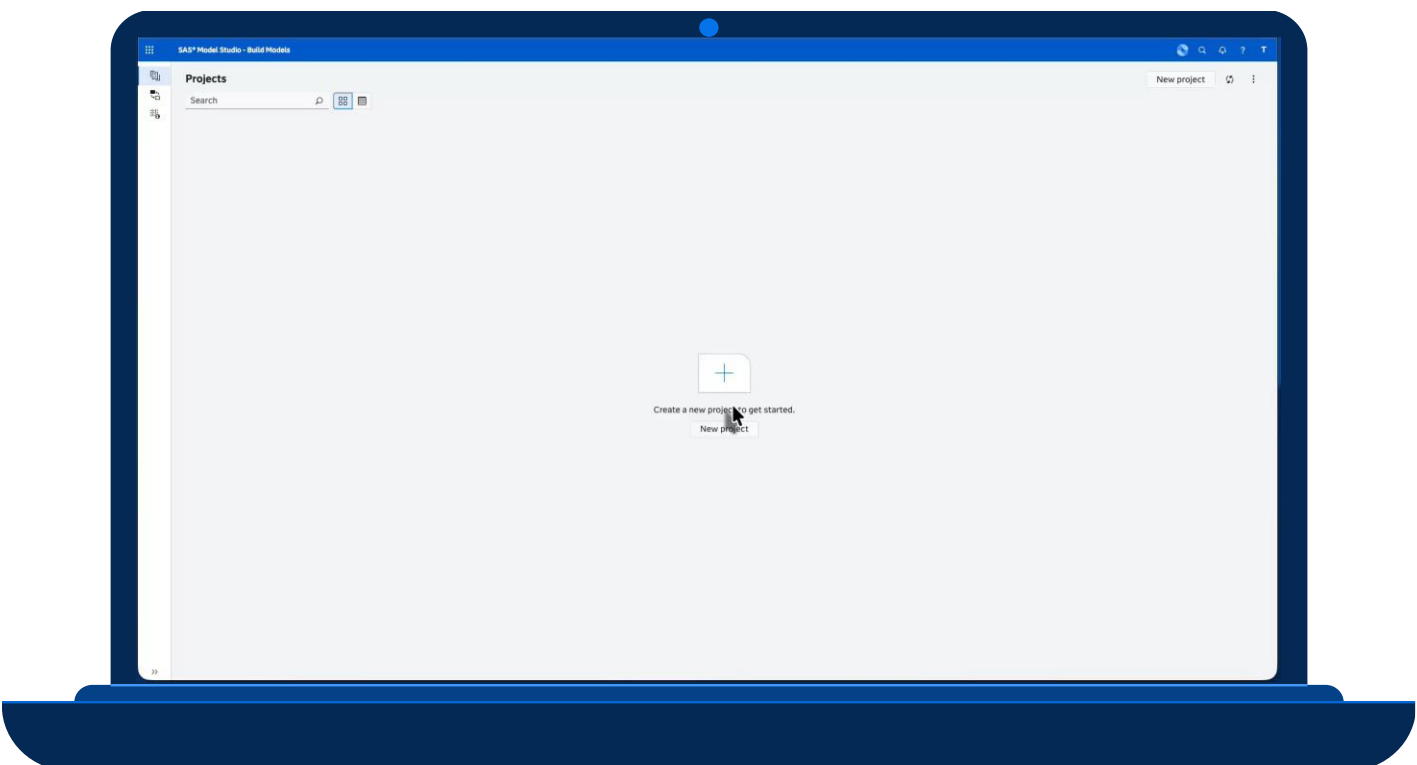
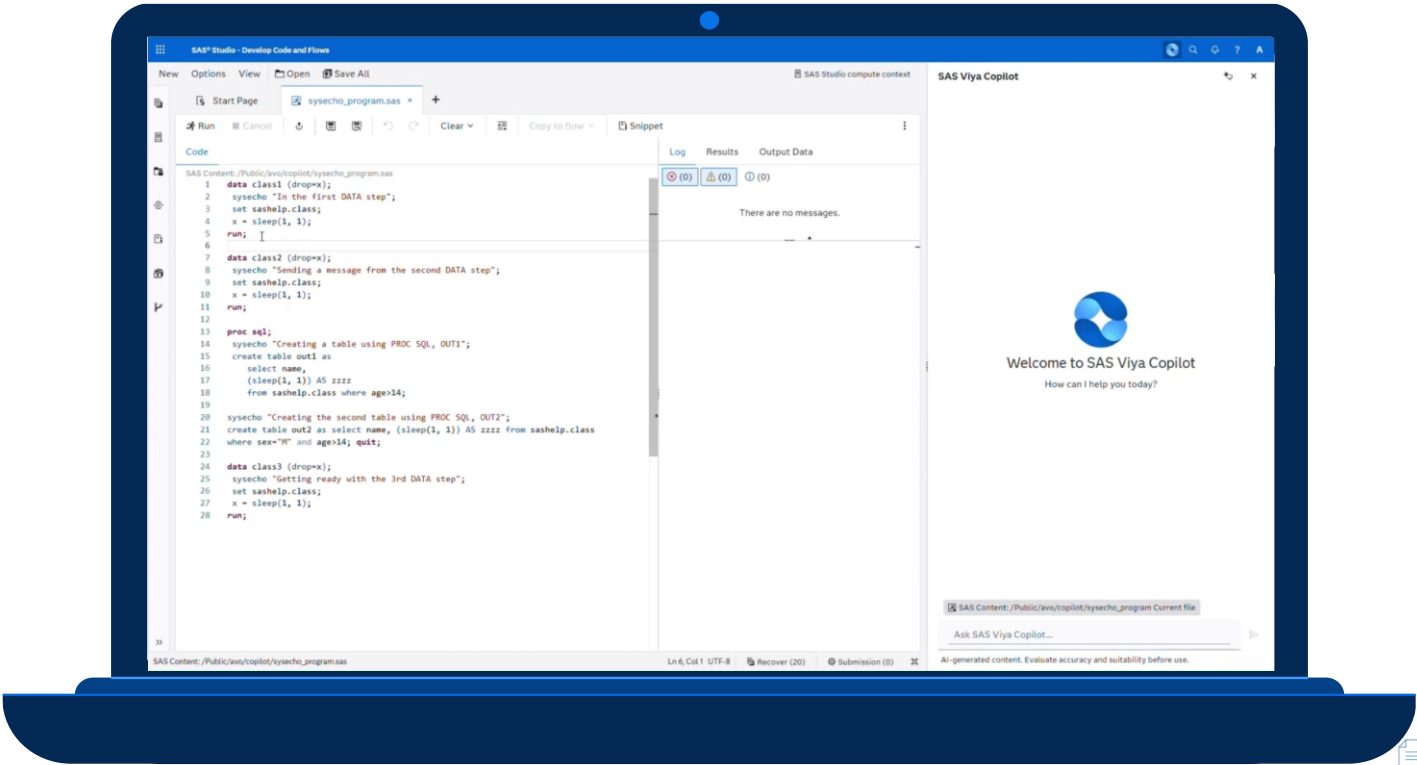


Generate visualizations
manipulate data

Investigate data sources



SAS® Viya® Copilots*

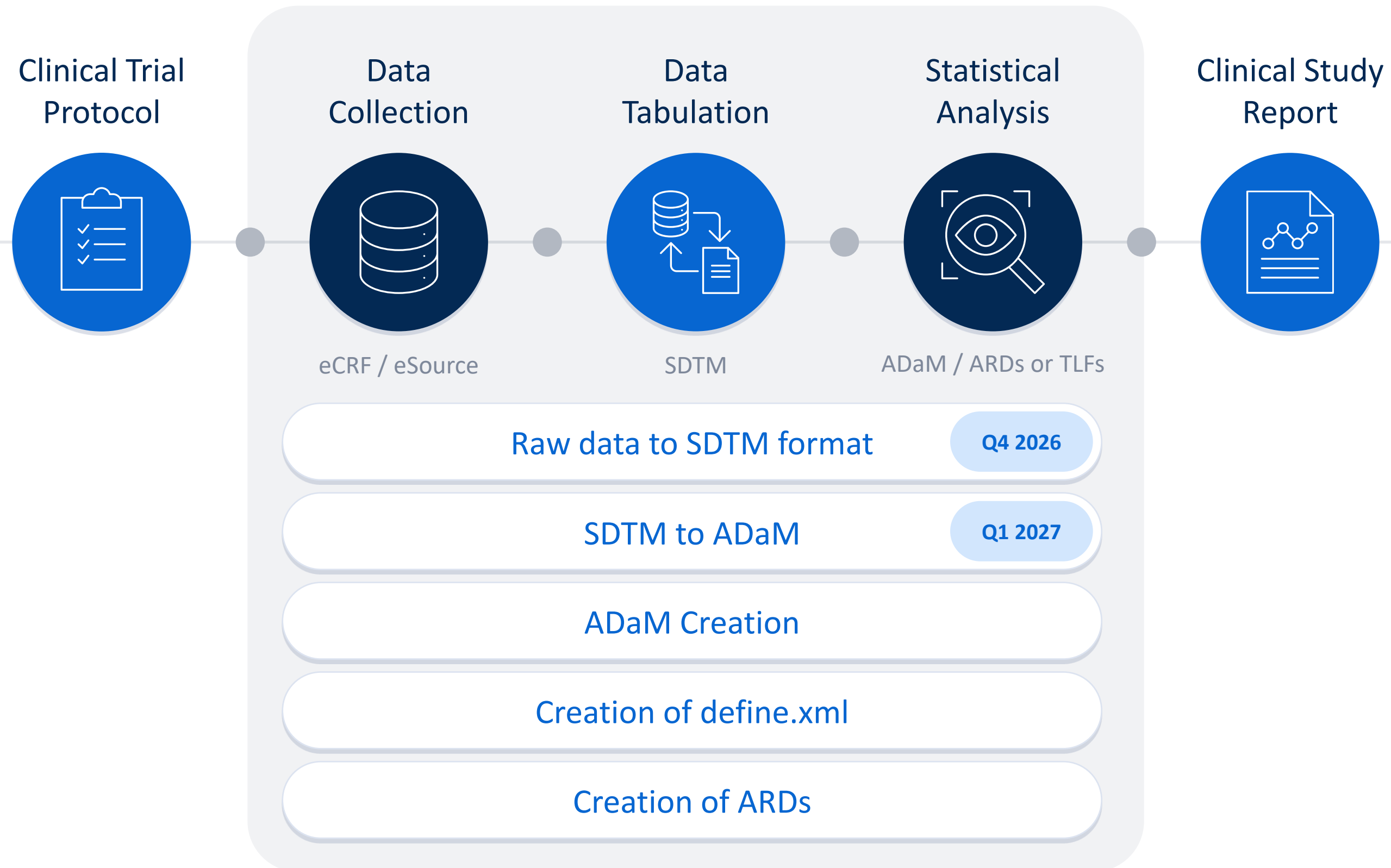


SAS Viya HLS Agentic Solutions

Clinical Data Transformation

in Solutions

Clinical Data Transformation



SAS Viya Copilot®

Industry Solutions CDT



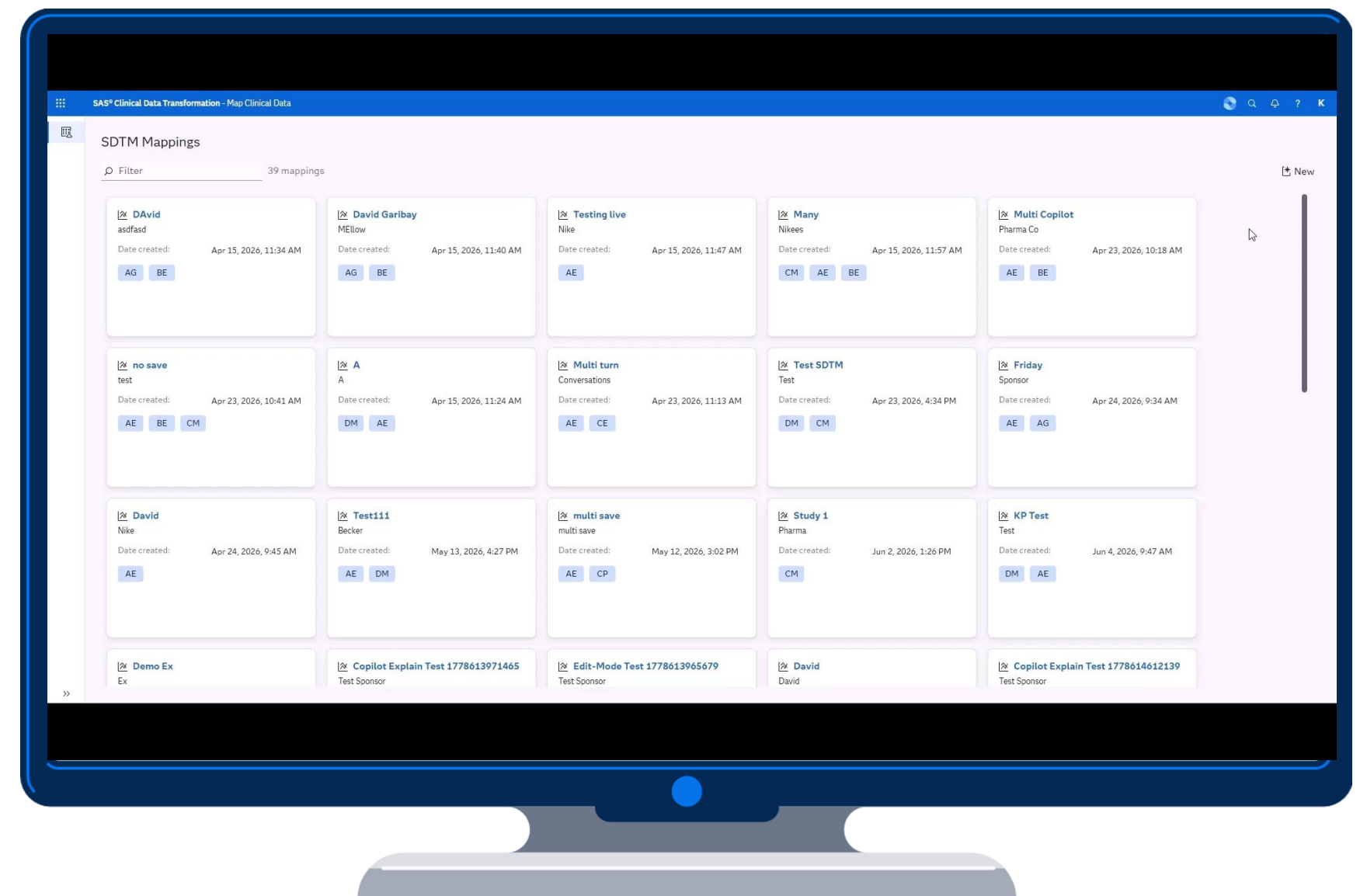
Agentic Tools to create mapping specifications.



Executable SAS (in future R/Python) code generation



Human oversight at every step. No turnkey solution. Gen AI as assistant.



SAS Viya HLS Agentic Solutions

RWD to OMOP standards

in Solutions

OMOP

From Community Standards to Regulatory Requirement



544

DATA SOURCES IN 54
COUNTRIES ALREADY
MAPPED TO OMOP CDM,
COVERING ROUGHLY 974
MILLION PATIENT RECORDS



~250M

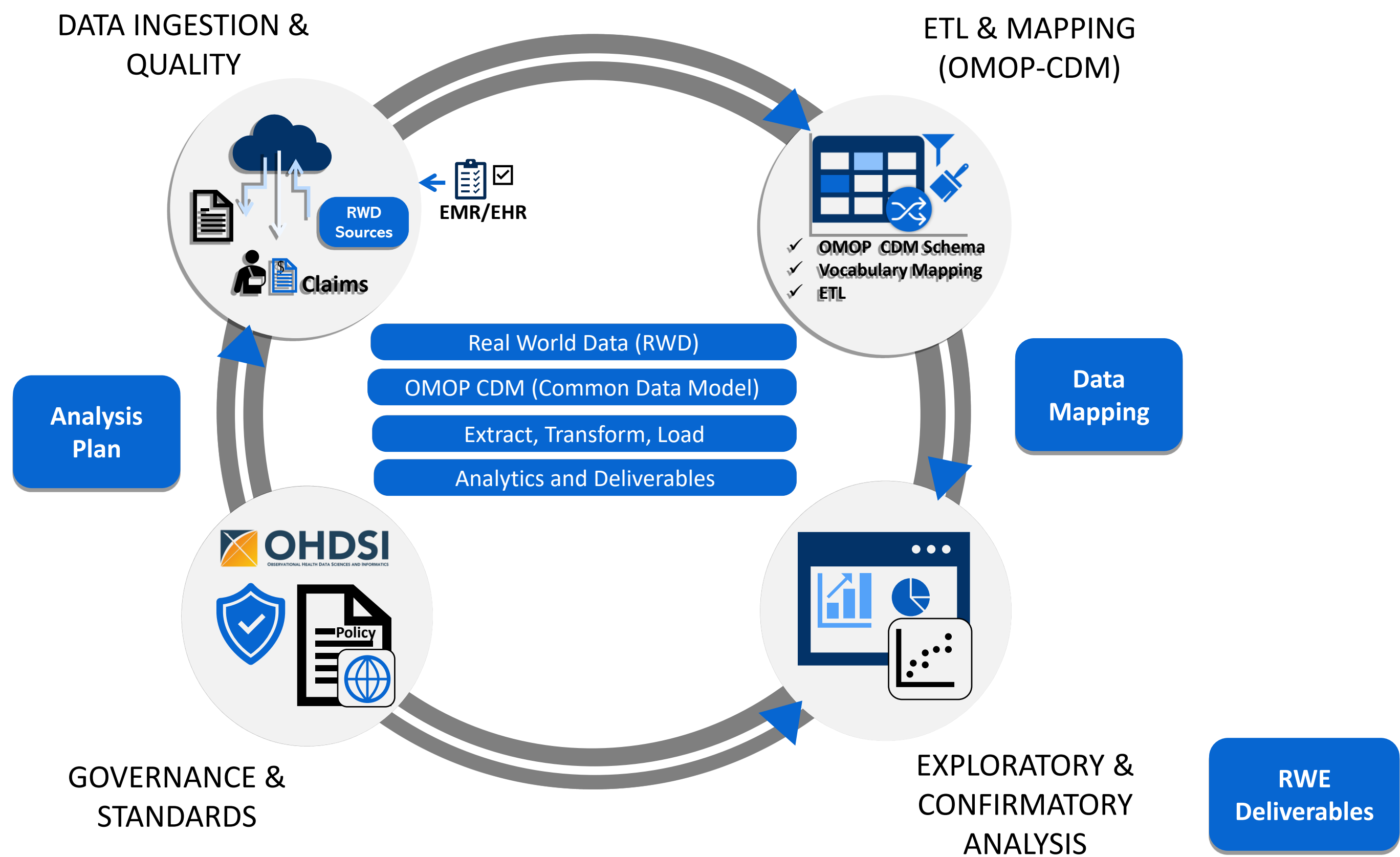
PATIENTS REACHABLE
THROUGH EMA'S DARWIN
EU, WHICH REQUIRES DATA
PARTNERS TO STANDARDIZE
TO OMOP



~110

DARWIN EU STUDIES
DELIVERED SINCE 2022 TO
SUPPORT EU REGULATORY
DECISION MAKING

End to End RWD – OMOP Flow



Industry Solutions – OMOP Converter Prototype



Embedded Analytics – Parquet,
Iceberg with Duck DB.



Gen AI to generate mappings, code



Cost effective ‘governed’ pipeline.

**Connect And Review
RWD source**



SAS Viya add Ons

SAS Viya MCP Server

SAS RAM

What is SAS Viya MCP Server?



Open-source Project

<https://github.com/sassoftware/sas-mcp-server>



92 tools across 10 selectable tiers



Client agnostic – Claude, VS Code, Cursor, Github Copilot etc.

github.com/sassoftware/sas-mcp-server

README Contributing Apache-2.0 license Security

subset — handy for keeping a client's tool list small and focused, or hiding capabilities a deployment shouldn't offer. Accepts ranges and comma lists (e.g. `MCP_TIERS=0-4` or `MCP_TIERS=0,1,6,7`); unset means all tiers.

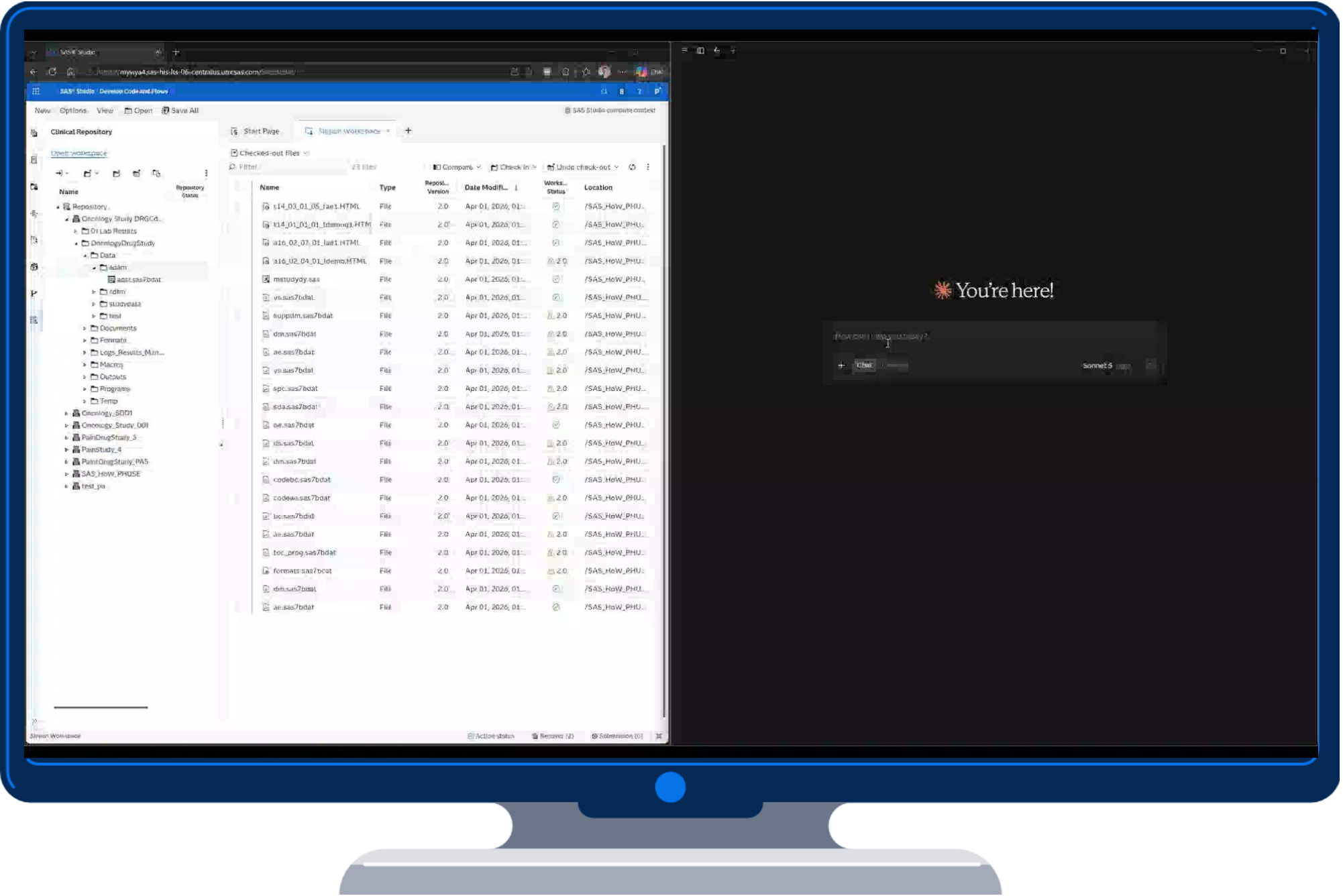
Tier	Group
0	Compute Contexts & Code Execution
1	Data Discovery
2	Data Operations & Files
3	Reports & Visualization
4	Batch Jobs & Async Execution
5	Automated Machine Learning
6	Model Management & Scoring
7	Decisioning (SAS Intelligent Decisioning)
8	Workbench (Execute Code Only)
9	Business Glossary (SAS Data Governance)

```
# Example: expose only compute/discovery/data-ops and reporting
MCP_TIERS=0-3 uv run app
```

How to use SAS Viya MCP Server?

Claude Config File

```
{
  "mcpServers": {
    "sas-viya-mcp-server": {
      "command": "npx",
      "args": [
        "mcp-remote",
        "https://[redacted]/mcp"
      ],
      "env": {
        "NODE_OPTIONS": "--use-system-ca",
        "NODE_EXTRA_CA_CERTS": "C:\\\\Users\\sinpan\\OneDrive - SAS\\HLS Work\\Viya Certs\\Cer"
      }
    },
    "deploymentMode": "3p",
    "coworkUserFilesPath": "C:\\\\Users\\sinpan\\Claude",
    "preferences": {
      "menuBarEnabled": false,
      "launchPreviewPersistedWorkspaces": [],
    }
  }
}
```



SAS Retrieval Agent Manager (RAM)

A Central Hub
for

**Launching, Orchestrating & Managing
Intelligent Agents**

delivering fast, accurate and context
aware Agentic AI responses transforming
enterprise data into

**Actionable
Insights**

**Smarter
Decisions**

**Automated
Actions**

Key Capabilities

- **Agentic workflows with semantic layer:** Seamlessly handle unstructured data with built-in RAG pipeline and structured data via MCP tool calling
- **Transparent and Trustworthy AI:** Citation backed responses, built in evaluation tools, and human in the loop oversight
- **No-code to pro-code flexibility:** Empower business users to build workflows effortlessly, while enabling developers to extend with custom data sources, tools, and agents.
- **Bring Your Own GenAI:** Easily integrate with your preferred GenAI services
- **Deploy Your Way:** Run on-premises or in the cloud with full flexibility

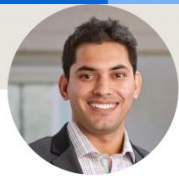
Trustworthy AI in clinical research

Balance autonomy with trust. Governance makes that balance reviewable.

Governance control	Evidence to retain
Define scope and risk	Intended use, accountable owner and applicable requirements
Validate and document	Risk-based tests, source lineage and reproducible versions
Keep human approval	Source-checked outputs, execution records and approval decisions
Monitor and control change	Drift monitoring, vendor/model changes and revalidation

SAS Viya supports the workflow. Sponsors remain accountable for validation and compliance.

Informed by FDA draft AI credibility guidance (Jan 2025). Apply requirements by use case



Pankaj Attri
Solutions Architect at SAS



Q&A