



PLM Road Map™ & PDT North America 2026

AI in PLM: A Disruptive Opportunity and Challenge

*Turning AI disruption into enterprise value:*

*Strategic insights for the PLM professional*

**CIMdata**

6-7 May 2026

[www.CIMdata.com](http://www.CIMdata.com)

# From the Digital Thread to Agentic AI: Scaling Trusted Intelligence in Manufacturing

## With ChapsVision's Trustworthy Agentic AI Platform

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Head of Innovation, ChapsVision



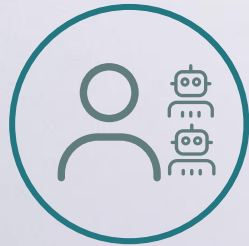
# We're Experiencing an Agentic Revolution

## 1. Pre-agent



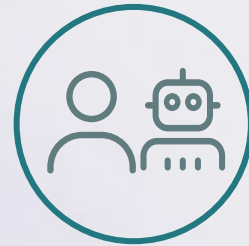
Humans perform all aspects of work

## 2. Agent Adjacent



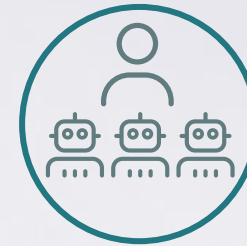
Humans invoke agents for specific tasks

## 3. Agentic Colleagues



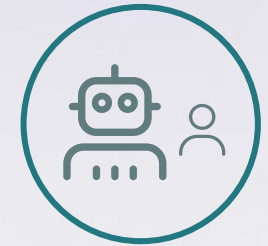
Agents work alongside humans to assist and augment

## 4. Agent-Centric



Humans provide goals and guidance to teams of agents

## 5. Agent-Led



Agents drive the work, and involve humans as needed

Primary role of humans:

*work*

*delegate*

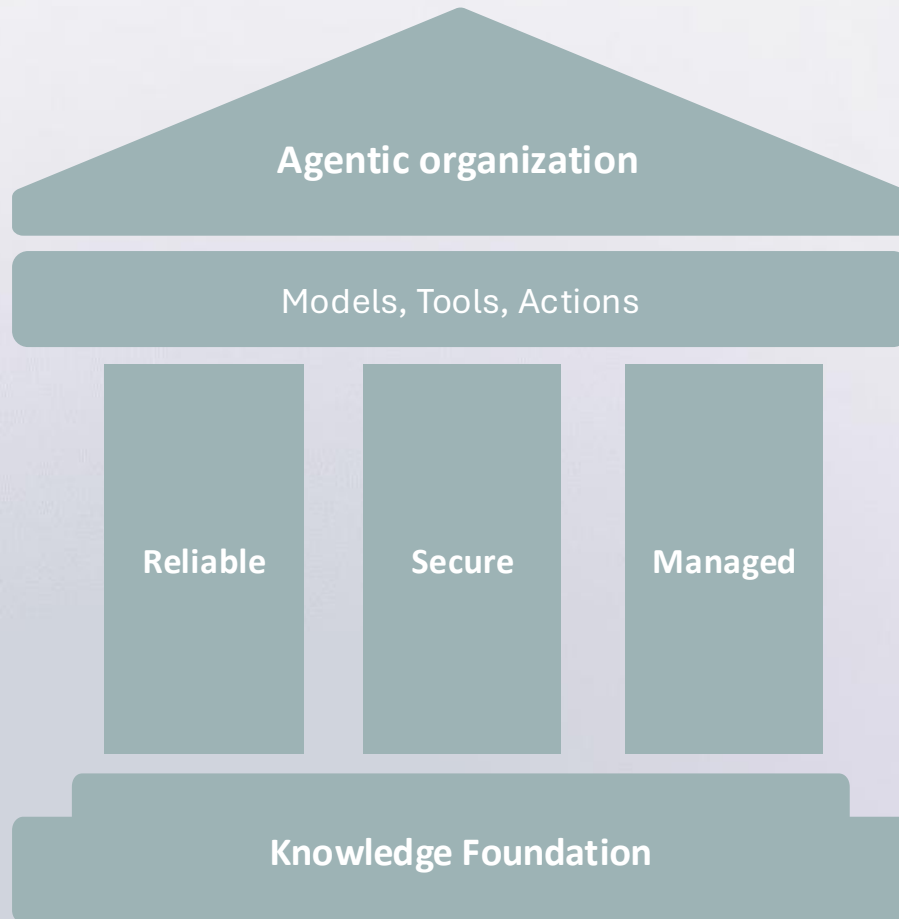
*collaborate*

*supervise*

*steer & assist*



# Successful organizations aren't distracted by the market hype



## Capability

Agentic workflows and job execution  
Multi-agent collaboration  
Multiple tool use and multi-model

*What can you do?*

## Trust

### Reliable

Enterprise agentic AI must deliver accurate results and ensure agents act on verified information every time.

### Secure

Data protection through access control, encryption, secrets management, and audit trails is non-negotiable.

### Managed

Effective governance through controls, guardrails, and monitoring is essential to manage agentic risk

*Can I trust you?*

## Knowledge

The success of agentic AI rests on grounding in a comprehensive, secure, and accurate retrieval of your organizational knowledge

*What do you know?*

ChapsVision provides the tools for trustworthy agentic success

# Chapsvision connects the dots

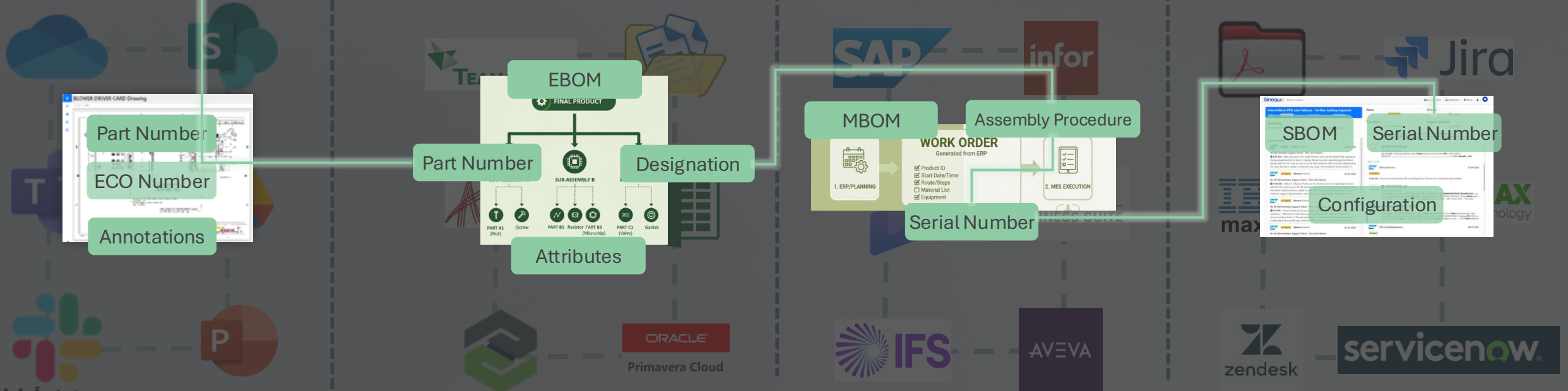


## Collaborative Apps

## Product Development Systems

## Manufacturing and ERP Systems

## Maintenance and Support Systems





## Enterprise AI *agents*

<b>Intelligence</b>	LLMs/FMs
<b>Goal</b>	Prompt
<b>Tools</b>	Tools management
<b>Knowledge</b>	Advanced RAG
<b>Memory</b>	Short- and Long-term

## running in a *harness*

<b>Orchestration</b>	<b>Usage Tracking</b>
<b>Execution</b>	<b>Lifecycle Mgt</b>
<b>Error Handling</b>	<b>Cost Mgt</b>
<b>Validation</b>	<b>etc...</b>

## that must be *managed*

<b>Creation</b>	Specification
<b>Access</b>	AI Agent Library
<b>Publishing</b>	Workflow & approvals
<b>Versioning</b>	Updates
<b>Evaluation</b>	Testing updates

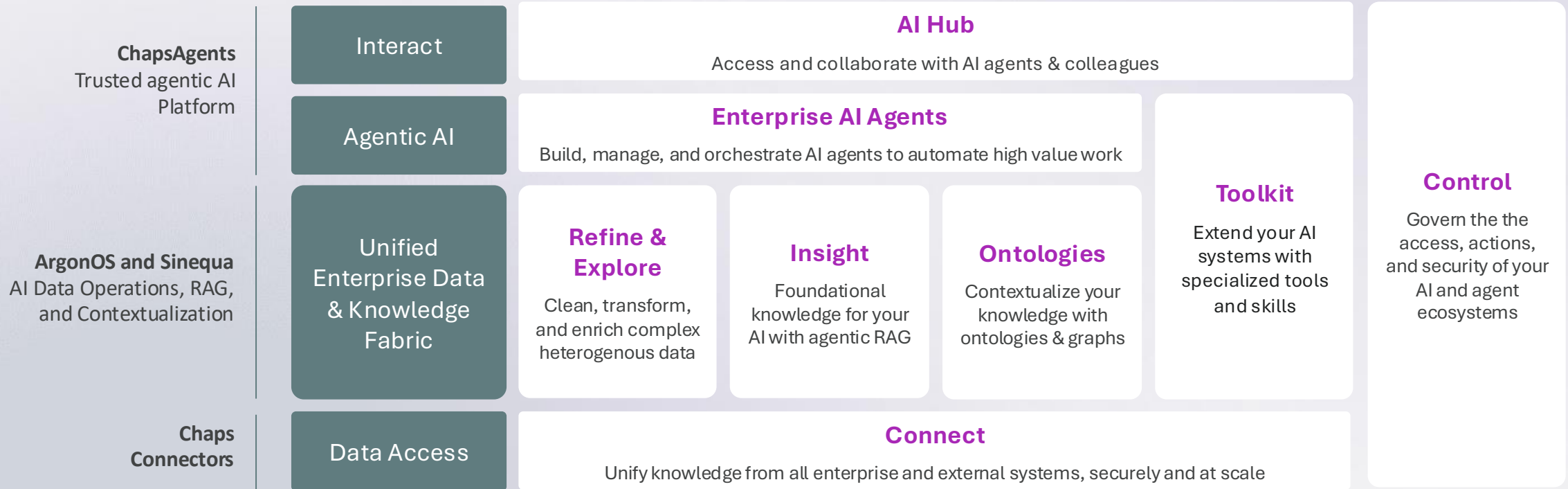
## that is fully *governed*

<b>Data security</b>	<b>Authentication</b>
<b>Guardrails</b>	<b>Authorization</b>
<b>HITL/HOTL</b>	<b>Misuse Mgt</b>
<b>Observability</b>	<b>etc...</b>



# Power Agentic AI You Can Trust

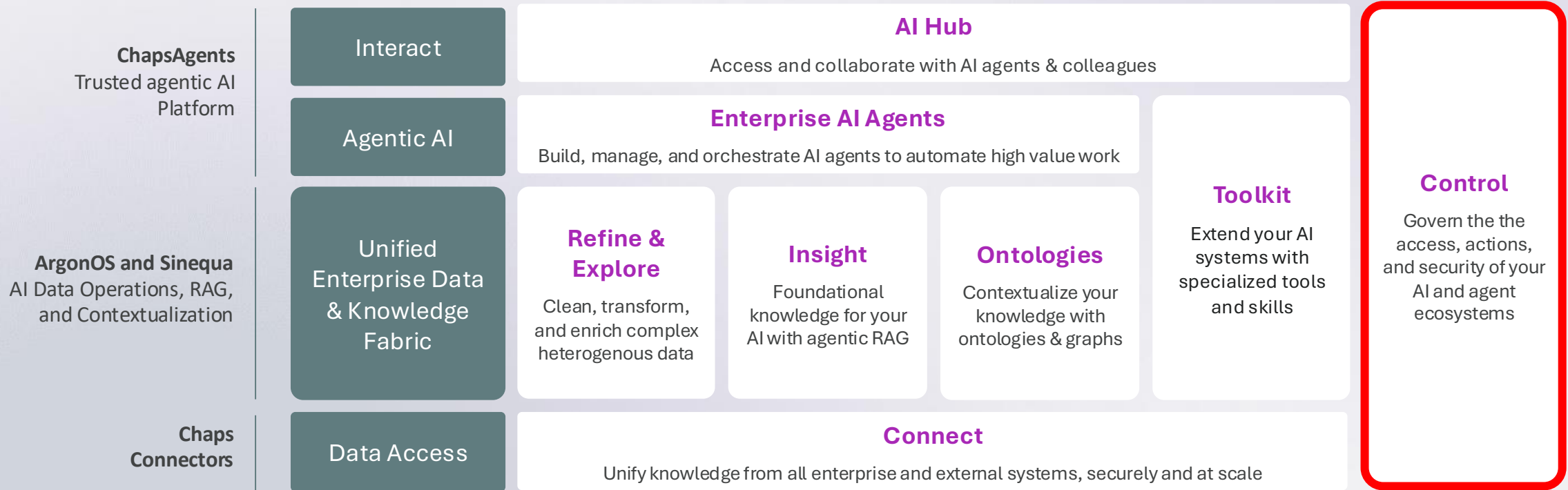
## The ChapsVision Enterprise Agentic AI Platform





# Power Agentic AI You Can Trust

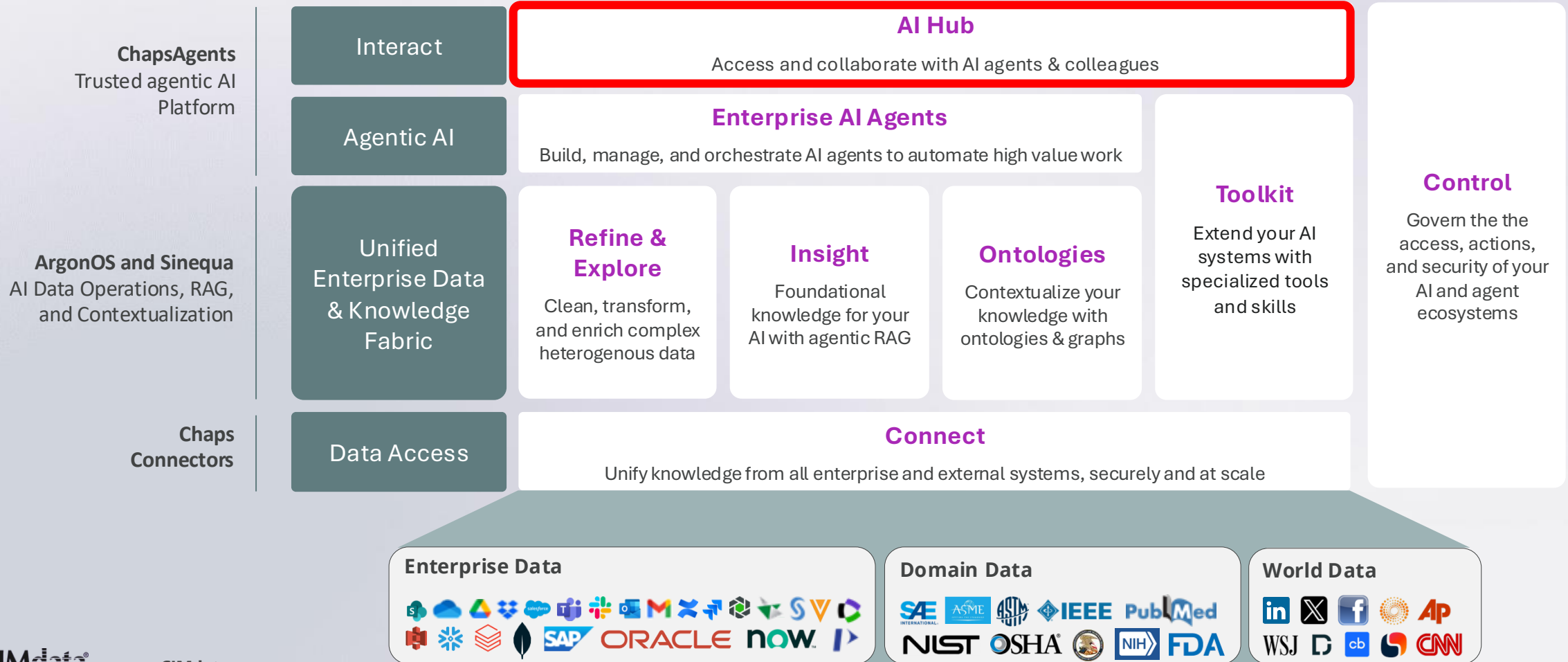
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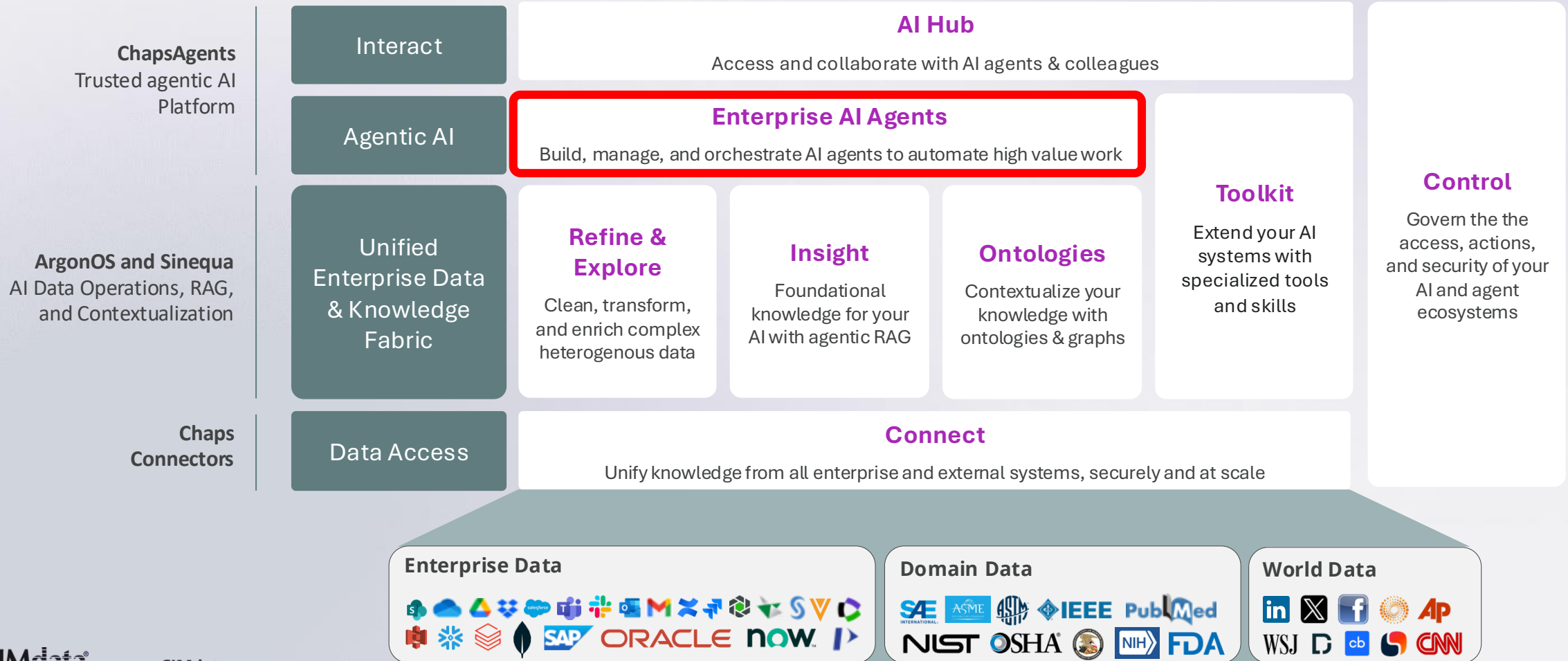
The ChapsVision Enterprise Agentic AI Platform





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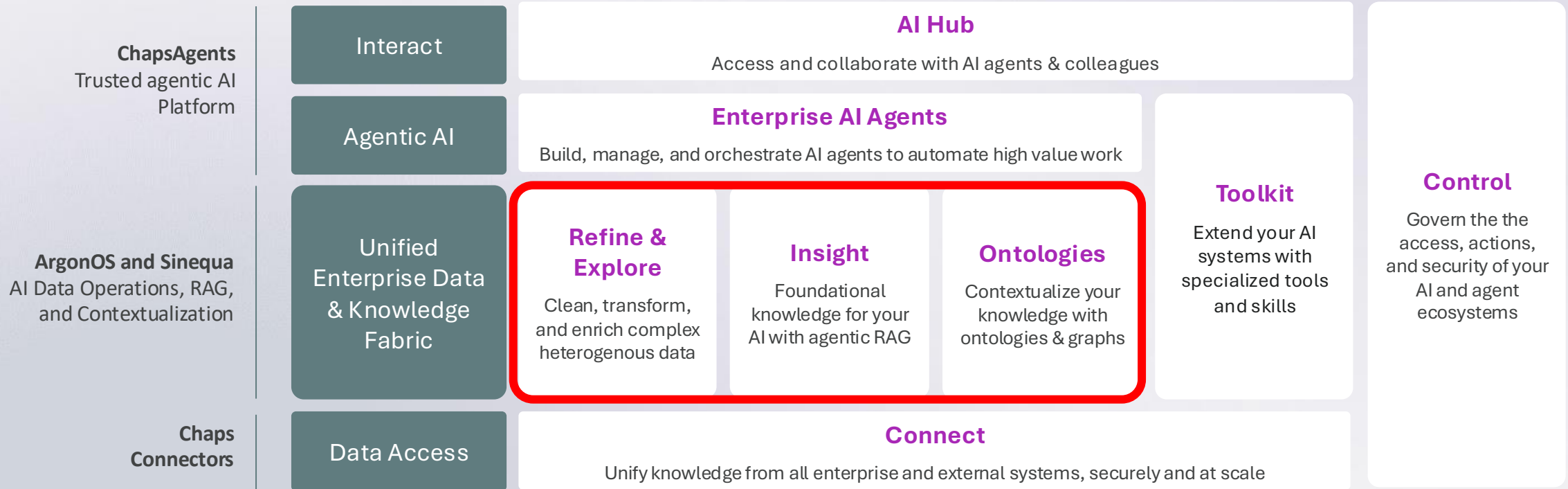
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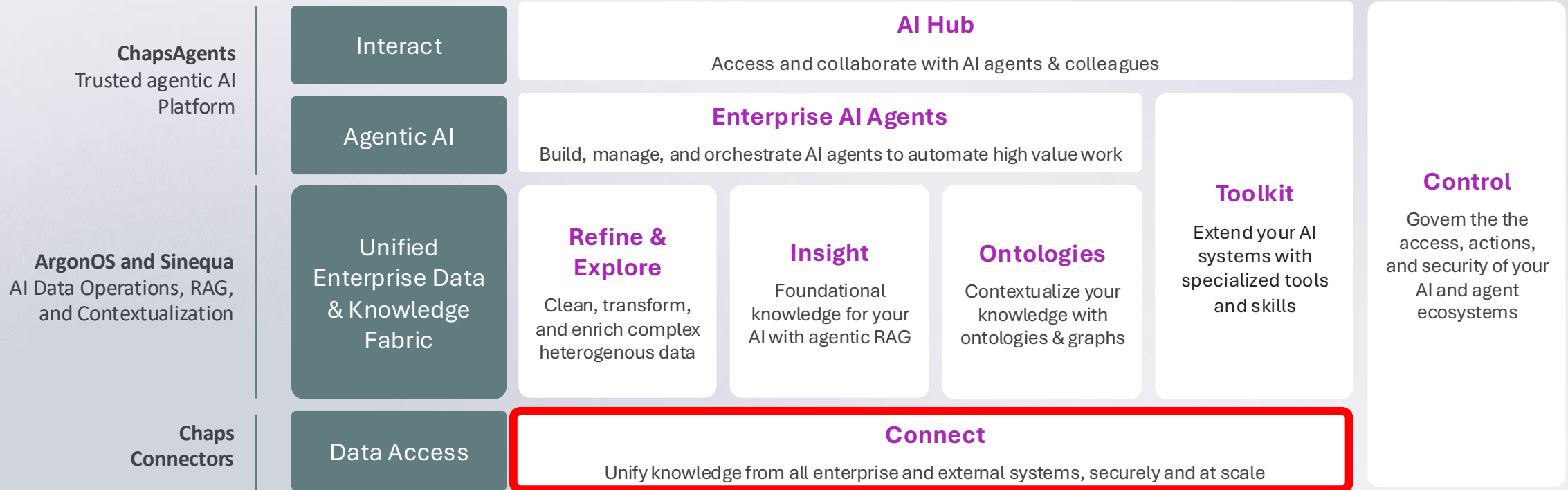
## The ChapsVision Enterprise Agentic AI Platform





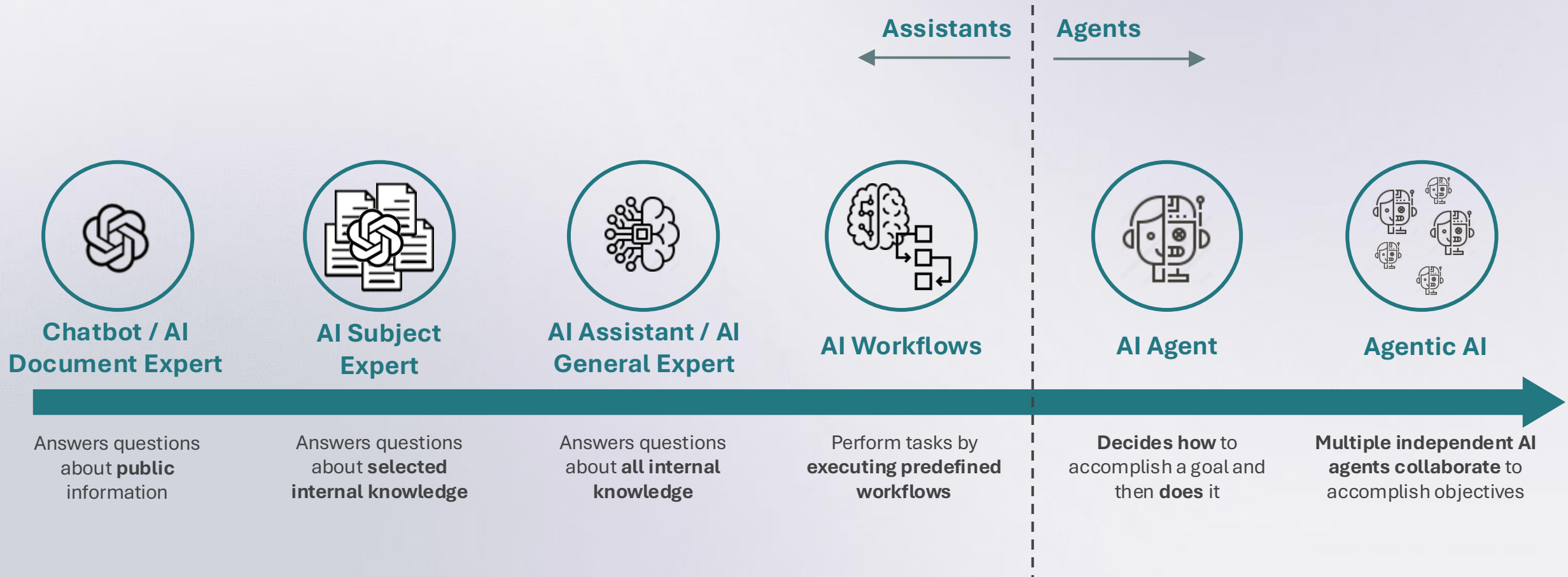
# Power Agentic AI You Can Trust

## The ChapsVision Enterprise Agentic AI Platform





# Many Kinds of Digital Workers



The OpenAI logo is a trademark of OpenAI

An aerial photograph of a modern, multi-story building with a glass facade. The building is surrounded by green grass and a paved walkway. A large glass panel on the building features the Cummins logo. The sky is clear and blue.

# Fueled by history. Driven by vision.

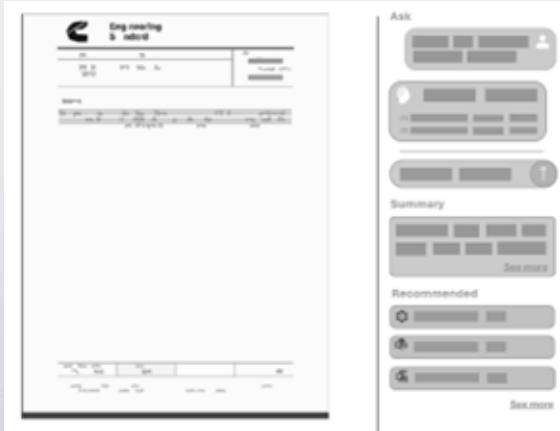
**100+ years of solutions at scale**

At Cummins, we aren't afraid of a challenge. Together, we're developing new ways to power essential industries that support our planet and the people we serve.

# 5 Design patterns

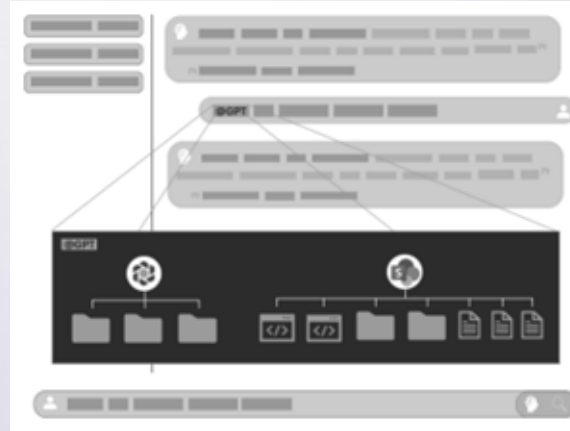
## AI Document Expert

Chatbot + Document



## AI Subject Expert

Domain-Specific SubGPTs



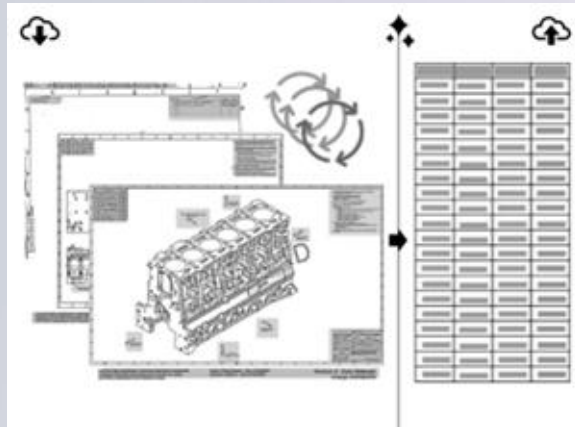
## AI Assistant

Unifying Knowledge Search + AI



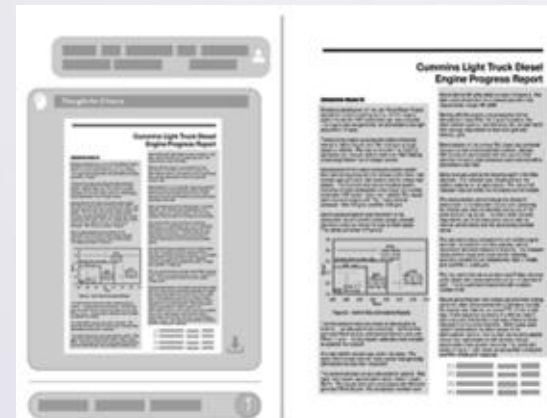
## AI Workflows

Task Automation



## AI Agent

Deep Internal Research





# Many Kinds of Digital Workers



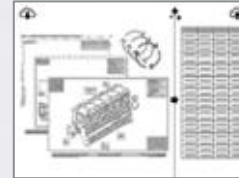
**AI Document Expert**



**AI Subject Expert**



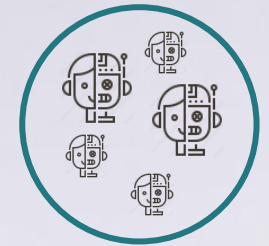
**AI Assistant**



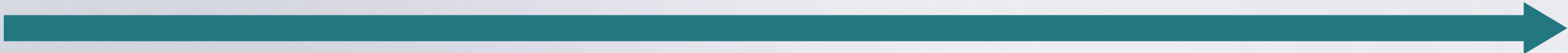
**AI Workflows**



**AI Agent**



**Agentic AI**



Answers questions about **public** information

Answers questions about **selected internal knowledge**

Answers questions about **all internal knowledge**

Perform tasks by **executing predefined workflows**

**Decides** how to accomplish a goal and then **does** it

**Multiple independent AI agents collaborate** to accomplish objectives



# Initial Round of Agents

## Drawing Compliance Agent

*Does the drawing meet all our standards?  
standards?*

**Change Impact Assessment**  
PB560 Blower Driver Harness — Connector Substitution

Controlled Requirement (Phase 22-01-2085 / System Spec)

#	Parameter	Controlled Requirement (Phase 22-01-2085 / System Spec)	Replacement Value (IC-8085-V16)	Match
1	Contact positions	8	8	Yes
2	Contact pitch	4.20 mm	4.20 mm	Yes
3	PCB mounting type	Through-hole, vertical	Through-hole, vertical	Yes
4	Wire gauge compatibility	AWG 24 (HWYUB25)	AWG 24-18	Yes
5	Mating contacts	58-50-0332 (K5-series comp)	K5-series comp contacts, AWG 24-18	Yes
6	Flammability rating	UL94 V-0 (PC-AE10 Class 3, Dec 10096315)	UL94 V-0 (IC-8085-V16)	Yes
7	Storage temperature lower bound	+40°C (HWYUB16)	+40°C	Yes
8	Storage temperature upper bound	+70°C (HWYUB16)	+155°C	Yes
9	Housing material compound	Molded qualified Nylon 66 compound (controlled via qualified supplier)	IC-8085-V16 compound (proprietary compound, unqualified)	No

- Identifies applicable standards
- Analyzes the drawing against each standard
- Identifies non-compliance
- Creates a compliance report
- Recommends resolutions

## Design Review Agent

*Compile and organize all the supporting evidence for the upcoming review.*

**Recommended Next Steps**

Here's what I'd do, based on how I've run these engagements before:

1. **Email Markus Hoffmann directly** (mailto:markus.hoffmann@interconnect.com) with a technical requirements brief. Based on my history with him, expect a feasibility response within 48 hours. Copy Frank Schwaner (frank.schwaner@interconnect.com) on the quality side.
2. **Ask for two things in that first message:**
  - Full IC-8085 material statement and flammability test report (these are "available on request" per their own datasheet — call that out and request them formally).
  - Plus any creep or migration data they have at 65-70°C.
3. **Coordinate timing** (e.g. elevated ambient temperature up to 70°C) for the motor phase contacts.
4. **If IC-8085 data is insufficient or unavailable**, request a compound change to a standard commercial 30% GF Nylon 66 with a published datasheet. Budget 8 weeks for first article samples. If it needs for qualification testing, 2-3 weeks for ECU acceptance. Plan for 30-35 weeks total.
5. **Negotiate cost now, before committing.** The 2019 change carried an ~\$6 unit cost premium for 50k. Module grade compounds vary, but get pricing early to procurement (ask supplier). If it can't offer a volume forecast commitment (like we did in 2019), there's a realizable chance their prices today look good.
6. **Specify the needed mating line** when you issue the request for samples. Full lot traceability and (customer packaging, if no additional ASE in my experience). For a blower motor control connector, that's non-negotiable.
7. **Obtain supplier qualification reports** (reference SQR-2018-088, SQR-2018-142, SQR-2021-067 — those are in the SQE database and will give whoever picks this up the full formal history).

Based on everything in my files, I'd recommend we hold this PO until the compound change is negotiated and confirmed with InterConnect. This is a solvable problem — we've solved it twice with this supplier already — but the PO can't slip on the current IC-8085 spec. I can readily procurement to place it on hold right now — would you like me to go ahead?

**Notify Procurement**

Done - PO #4473 is on hold in SAP and procurement has been notified with the full context, including the specific qualification gaps, the two supporting ECU precedents, and Markus Hoffmann's contact information so you understand why this is a fail and not a disruption.

The last message I made sure was in that notification this is a negotiation, not a question. InterConnect has done this for us before. With a clean requirements brief to Markus, you could have a feasibility response by end of week and a qualified part in hand by Q3 — assuming you move quickly.

- For each element of the design review:
- Identifies the appropriate format
  - Scours all content for proof of work
  - Compiles proof into design review
  - Identifies where evidence is lacking

## Test Plan Agent

*Create a thorough and efficient test plan plan.*

**Motor control wires**

Part 1025: The electrical interface of the blower that consists of 8 wires of 165mm (+/-5mm) length (AWG 24 including the connector (Molex 22-01-2085, it contacts 18-50-0332). This includes the hardware for motor control and Hall Effect sensor.

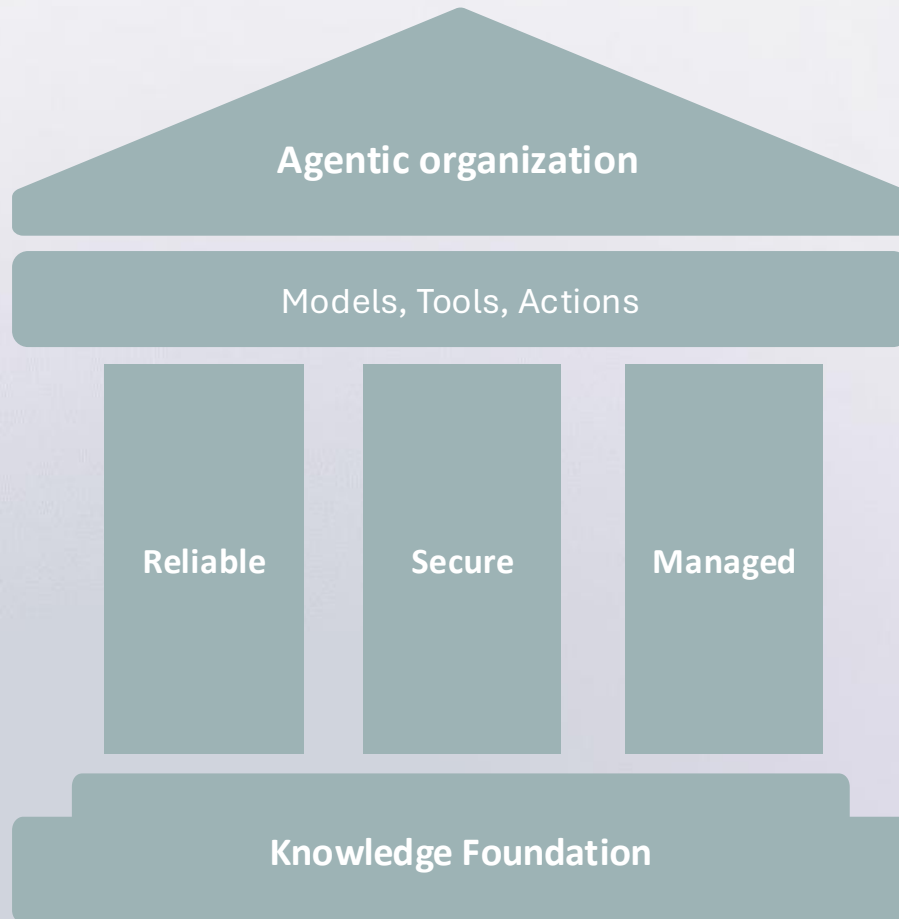
Pin Number	Signal Name	Wire Color
1	Phase 1	Brown
2	Phase 2	Black
3	Phase 3	Orange
4	Sensor Supply	Yellow
5	GND	Green
6	PH1 Sensor	Blue
7	PH2 Sensor	Black
8	PH3 Sensor	Grey

**Timing relationships between the motor phases and the hall sensors:**

- Identifies applicable requirements
- Analyzes prior test efforts for similar situations
- Specifies test steps to meet all requirements
- Lists unnecessary or redundant protocols



# ChapsVision enables Agentic Success



Capability

*What can you do?*

Trust

*Can I trust you?*

Knowledge

*What do you know?*

Thank you!