

WEBINAR

Unleash the Power of AI Agents

Building Effective Agent Systems

Wednesday, March 12th 2025: 8 PM CET / 7:00 PM GMT



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If you prefer not to be recorded, you may leave now. A summary of key points will be available afterward.



EuroAI Forum - Our Mission and Vision

OUR MISSION

Inspire and engage Europe in AI development, fostering an open platform for communication and knowledge exchange to drive positive societal and economic impact.



OUR VISION

Become Europe's leading forum for responsible AI development, connecting communities to build a global AI leader focused on ethics, trust, and collaboration.



EuroAI Forum - Our Values and Goals

VALUES

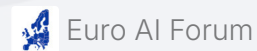
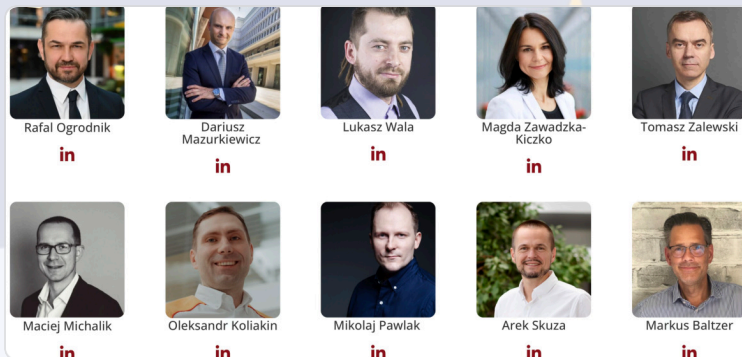
- 1 Collaboration**
- 2 Communication**
- 3 Engagement**
- 4 Inspiration**

GOALS

- 1 Exchange European AI Experiences**
Learn from collective successes and setbacks
- 2 Empower European Workforce**
Cultivate AI proficiency for productivity gains
- 3 Foster Pan-European Cooperation**
Ensure responsible AI adoption across Europe

Our Structure - Program Committee

Meet the experts guiding the EuroAI Forum's vision and direction



Program Committee - Euro AI Forum

EuroAI Forum -- Cooperation for the Future of AI in Europe -- Meet Our Program Committee

How are we different?

AI Implementation Showcase and Toolset

A platform or event for European businesses to showcase successful AI implementations, fostering knowledge sharing and inspiration.

Regulatory Sandbox Partnerships

Collaborative efforts with regulatory bodies to establish "sandbox" environments for safe AI testing within compliant frameworks.

European AI Talent Pipeline

Programs designed to connect skilled AI professionals with European businesses, encouraging talent retention and development within the region.

Sector-Specific Workshops

Specialized forums or events focusing on AI applications in key sectors of the European economy, such as manufacturing, healthcare, and finance.

Our Why

We recognize the **challenging legal and regulatory landscape** that complicates effective navigation.

Challenging Legal Landscape

We recognize the **challenging legal and regulatory landscape** that complicates effective navigation.

Gap in Practical Implementation

We identify a **gap in practical case studies** and implementations that go beyond proof of concept.

Limited Media Attention

We observe **limited media attention** and support for these critical issues.

Untapped AI Potential

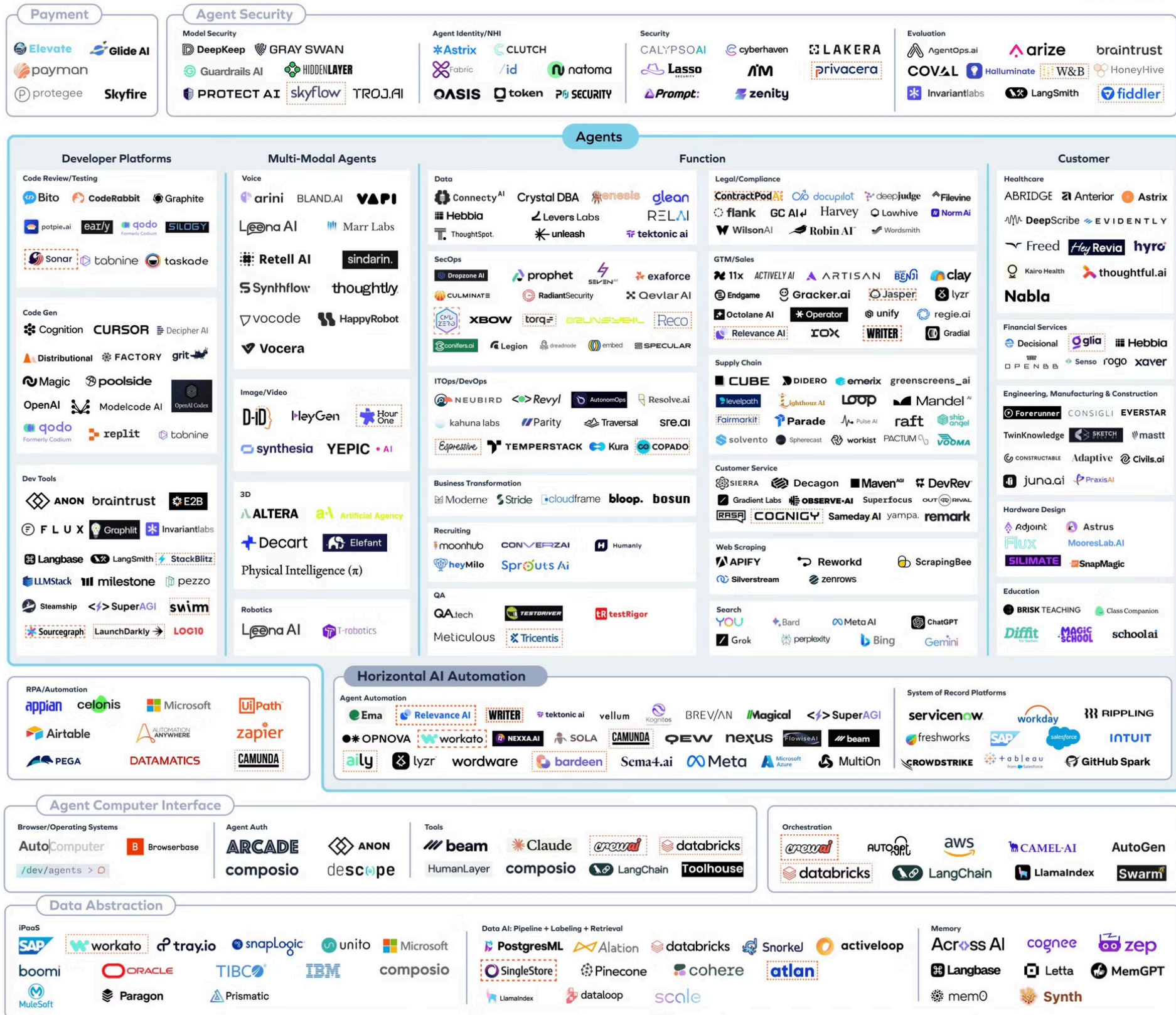
We acknowledge **limited opportunities for AI development** but see significant potential in adopting tools from American companies.

Let's start AI Agents part.

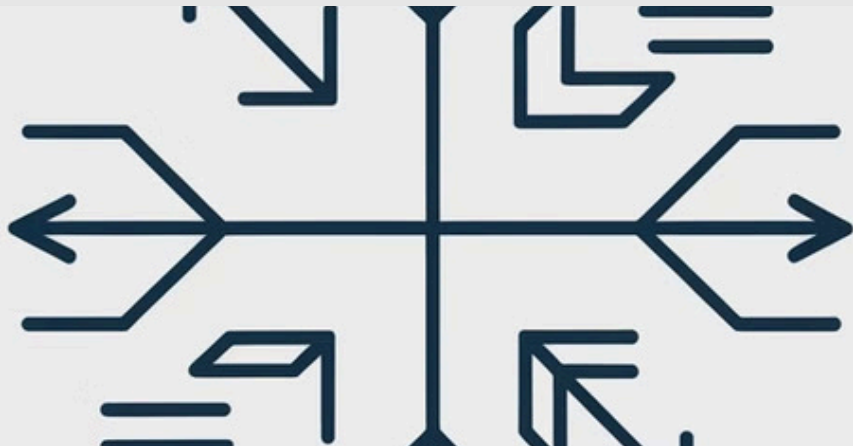


AI Automation & Agents Market Map

INSIGHT
PARTNERS



Insight Partners investment



What Are Agents?

Agentic Systems

At Anthropic, we categorize all variations as **agentic systems**, but draw an important architectural distinction between workflows and agents.

Workflows

Systems where LLMs and tools are orchestrated through predefined code paths.

Agents

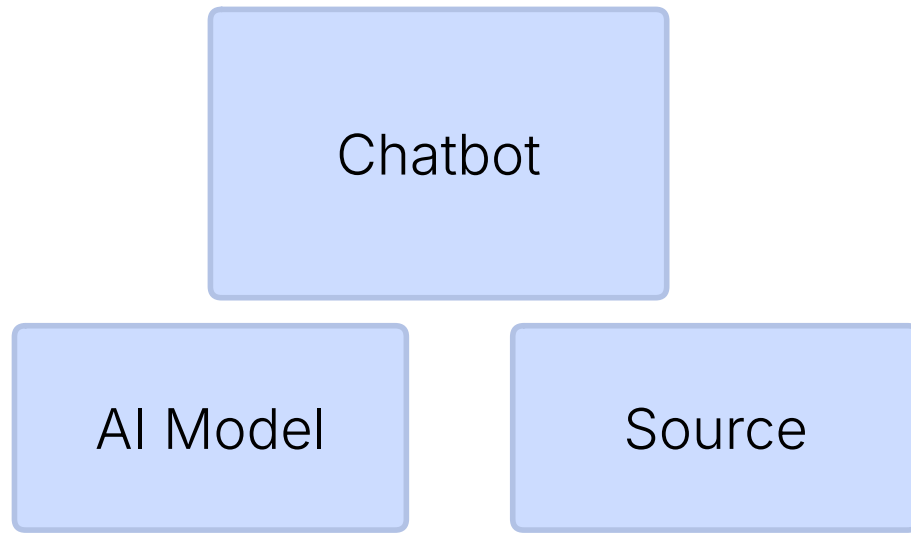
Systems where LLMs dynamically direct their own processes and tool usage, maintaining control over how they accomplish tasks.

When To Use Agents

Chatbots

Chatbots use a source of knowledge or a single AI model.

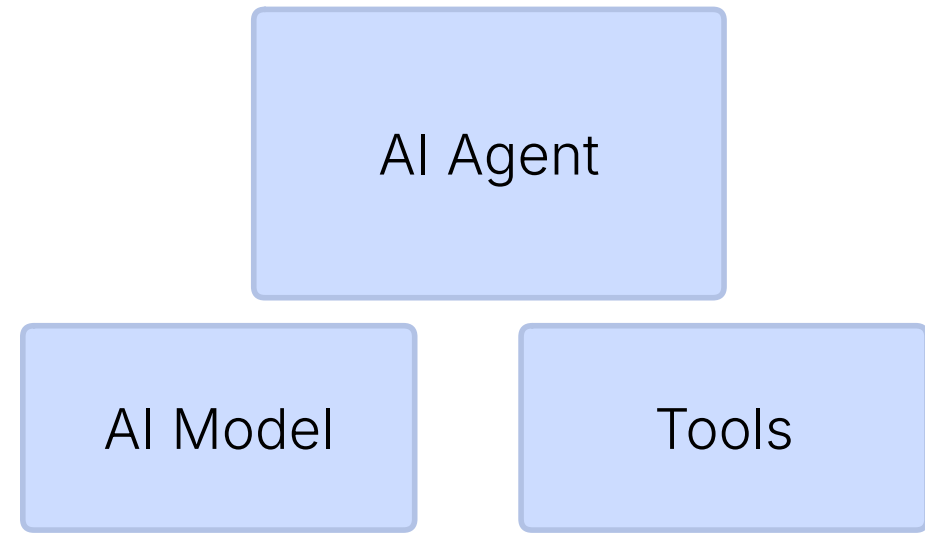
- Best for simple Q&A.
- Lack complex problem-solving skills.



AI Agents

AI agents use multiple AI models and tools.

- Better at dynamic tasks.
- Can achieve complex goals.



When To Use Agents

1 Find the Simplest Solution

When building applications with LLMs, we recommend finding the simplest solution possible, and only increasing complexity when needed (Source: Anthropic guide)

2 Consider the Tradeoffs

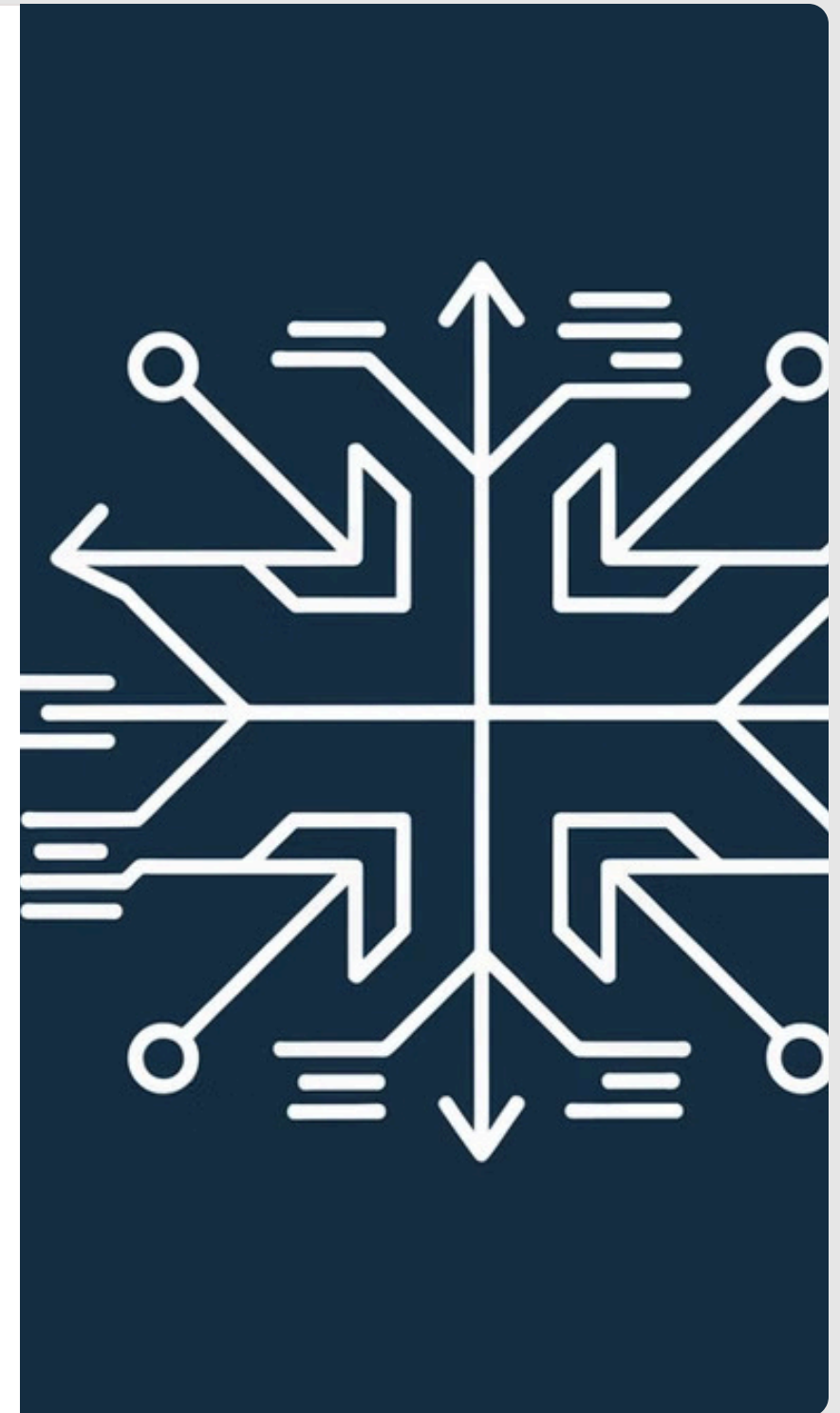
Agentic systems often trade latency and cost for better task performance, and you should consider when this tradeoff makes sense.

3 Choose Workflows for Predictability

Workflows offer predictability and consistency for well-defined tasks.

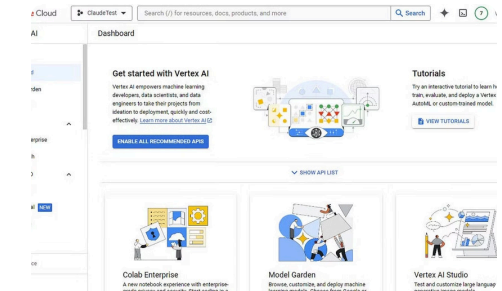
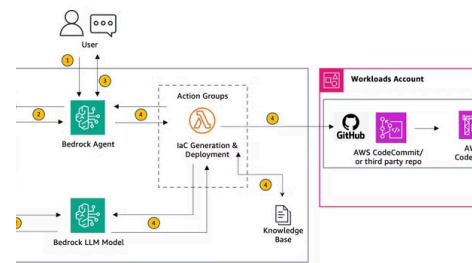
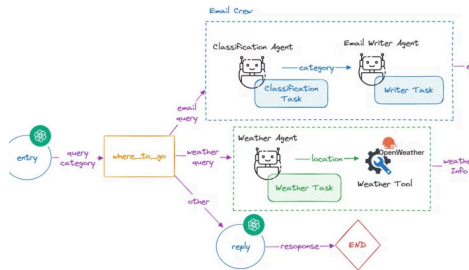
4 Choose Agents for Flexibility

Agents are the better option when flexibility and model-driven decision-making are needed at scale.



Frameworks: When and How to Use Them

Frameworks simplify agent development but come with trade-offs between ease of use and complexity.



LangGraph (LangChain)

Popular framework that simplifies standard low-level tasks like calling LLMs and chaining calls together.

Amazon Bedrock

Cloud-based AI Agent framework that streamlines development while potentially adding layers of abstraction.

CrewAI

Framework for streamlining workflows across industries with powerful AI agents on any LLM and cloud platform.

Google Vertex

Enterprise AI platform with agent capabilities that simplifies deployment but may obscure underlying prompts and responses.

While these frameworks make it easy to get started, they often create extra layers of abstraction that can obscure the underlying prompts and responses, making them harder to debug. They can also make it tempting to add complexity when a simpler setup would suffice.

Building Block: The Augmented LLM



Retrieval

Enhances the LLM with the ability to access and retrieve information from external knowledge bases.



Tools

Allows the LLM to interact with external systems and APIs to perform specific actions.



Memory

Enables the LLM to retain information across multiple interactions or sessions.

The basic building block of agentic systems is an LLM enhanced with augmentations such as retrieval, tools, and memory. Our current models can actively use these capabilities—generating their own search queries, selecting appropriate tools, and determining what information to retain.



Case study: Manus

Autonomous Operation

Manus operates independently to execute complex tasks.

Multi-Modal Capabilities


The agent uses a variety of inputs.

Tool Integration

It integrates with web browsers and database managers.

Adaptive Learning

Manus continuously learns and improves its performance.

**manus**

Podcast Audio 2-Minute Highlight Reel Instructions

Waiting for terminal 60 seconds

Continuing to transcribe the podcast audio to identify key quotes for the highlight reel.

Manus

I'm making progress on creating your 2-minute highlight reel. I've installed the necessary audio tools and started transcribing the podcast to identify key quotes. The transcription is ongoing, and I've already captured several interesting segments.

Based on the transcription so far, I can see this podcast discusses DeepSeek's R1 model with fascinating points about AI capabilities, self-awareness, and performance metrics. I'll continue processing the audio to identify the most compelling quotes for your highlight reel.

Let me modify my approach to be more efficient with the transcription and selection process.

Updating plan

Manus is replaying the session...

Skip to results

Manus's Computer

Manus is using Terminal


Waiting for terminal 60 seconds

run, transcription


```
ubuntu@ubuntu:~$ cd /home/ubuntu && python3 /home/ubuntu/podcast_project/transcribe_audio.py
Loading audio file: /home/ubuntu/upload/DeepSeek-R1-Podcast.wav
Audio duration: 1804.32 seconds
Processing segment 1: 0.00s to 30.00s
Transcribed: we're diving into something pretty incredible this...
Processing segment 2: 25.00s to 55.00s
Transcribed: these models are fascinating they completely chang...
Processing segment 3: 50.00s to 80.00s
```


HQ DL

Manus is working: Identify key quotes from transcript 000 Updating plan

 YouTube

Manus



 00:30

Case study Anything LLM



01. Type of building to be equipped (e.g., school, office, residential)
02. Location of the building
03. Planned heating/cooling area (in m²)
04. Type of heating installation planned or existing
05. Whether domestic hot water will be prepared only by the heat pump
06. Estimated heat load of the building (in kW)
07. Whether the building requires cooling and the estimated cooling capacity
08. Type of air-solar collectors planned for regeneration
09. Information about additional heat sources and preferred system operation mode
10. Preferred type of energy storage (ice tank)
11. Requirements for the hydraulic module with intelligent installation management

The document shows a questionnaire format where these details are collected to provide accurate cost estimates for components like heat pumps, gas boilers, ice storage tanks, and control systems.



Show Citations >

@agent - the default agent for this workspace.

rag-search | web-scraping | web-browsing | save-file-to-browser | list-documents
summarize-document | chart-generation

custom agents are coming soon!



Anything LLM

Everything great about AI in one desktop application.

Chat with docs, use AI Agents, and more - full locally and offline.

Agents in Practice: Real-World Applications

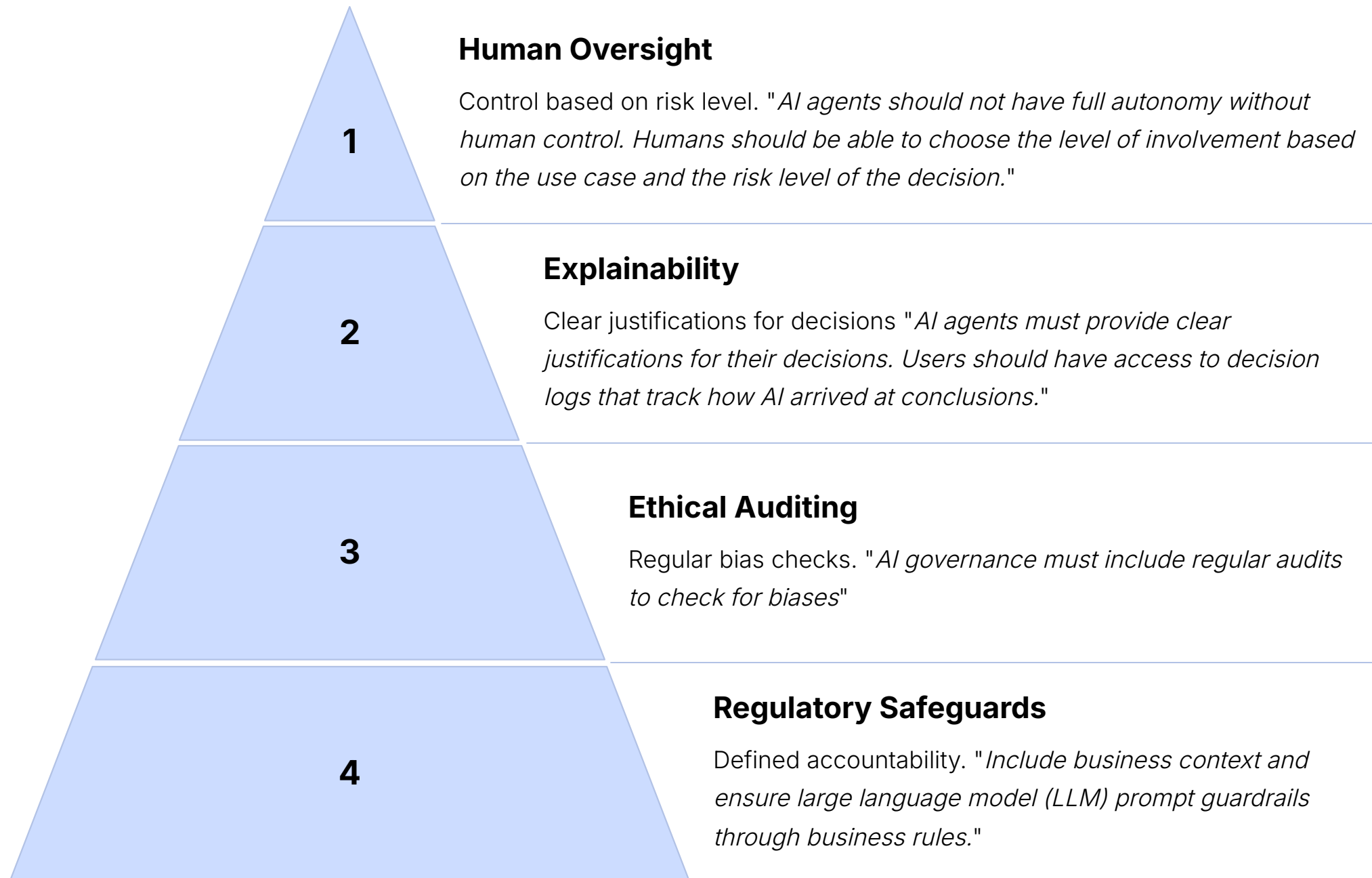
Customer Support (Salesforce)

- Combines familiar chatbot interfaces with enhanced capabilities through tool integration
- Support interactions naturally follow a conversation flow while requiring access to external information and actions
- Tools can be integrated to pull customer data, order history, and knowledge base articles
- Actions such as issuing refunds or updating tickets can be handled programmatically
- Success can be clearly measured through user-defined resolutions

Coding Agents (Zencoder)

- Software development space has shown remarkable potential for LLM features
- Code solutions are verifiable through automated tests
- Agents can iterate on solutions using test results as feedback
- The problem space is well-defined and structured
- Output quality can be measured objectively
- Agents can now solve real GitHub issues in the SWE-bench Verified benchmark

Pillars of AI Agent Governance



¹ Source: SAS ([link](#))



**Share your AI Agent
journey and let us
know your learning
goals.**

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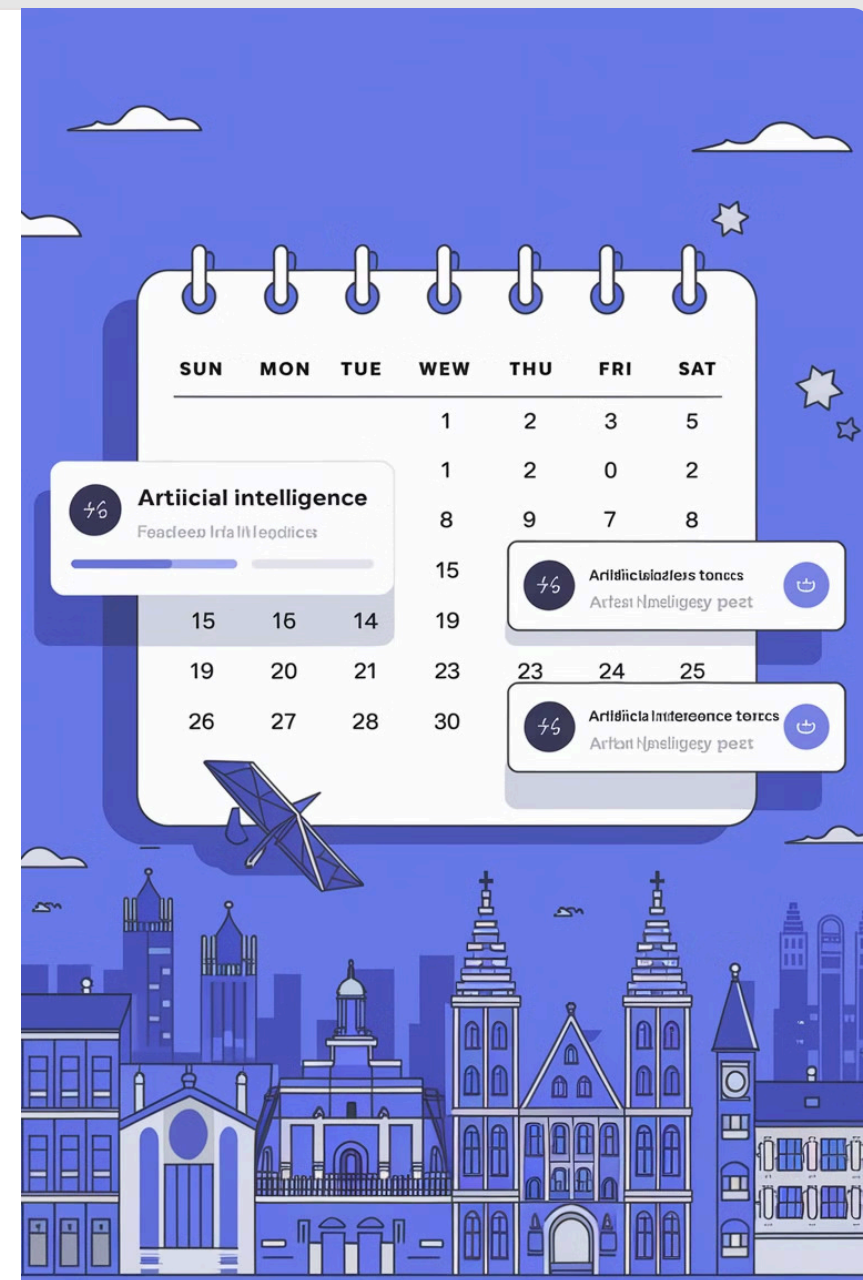
Get alerts for events matching your specific AI interests.

Visit [calendar](#) to access our full calendar of AI innovation.



Upcoming Events

Join AI implementation workshops and regulatory discussions across Europe.



Our next webinar

Navigating Legal Aspects of AI in Europe (May 2025)

Join us for our upcoming webinar exploring the complex legal landscape of AI development and implementation across Europe. Legal experts will discuss regulatory frameworks, compliance challenges, and practical guidance for businesses.

Don't miss this opportunity to stay ahead of the evolving legal requirements in the AI space.



Register

Learn more and register at euroaiforum.eu

Key Takeaways

Our journey through AI agents has explored governance, frameworks, and real-world applications.

- AI Agent Governance**
Human oversight, explainability, ethical auditing, and regulatory safeguards form the foundation.
- Practical Applications**
Case studies like Manus and Anything LLM demonstrate real-world implementation success.
- Community Engagement**
Connect through upcoming events, webinars, and our personalized calendar system.
- Next Steps**
Share your AI agent journey and help build Europe's leading AI platform.



Join us to build a platform for leading AI companies and organizations in Europe.



Become a Volunteer

Contribute your time and skills to help advance AI initiatives across Europe.



Become a Member

Access exclusive benefits and join a network of AI professionals shaping Europe's future.



Be With Us on LinkedIn

Stay connected with our community and the latest European AI developments.