

# Agentic Protocol

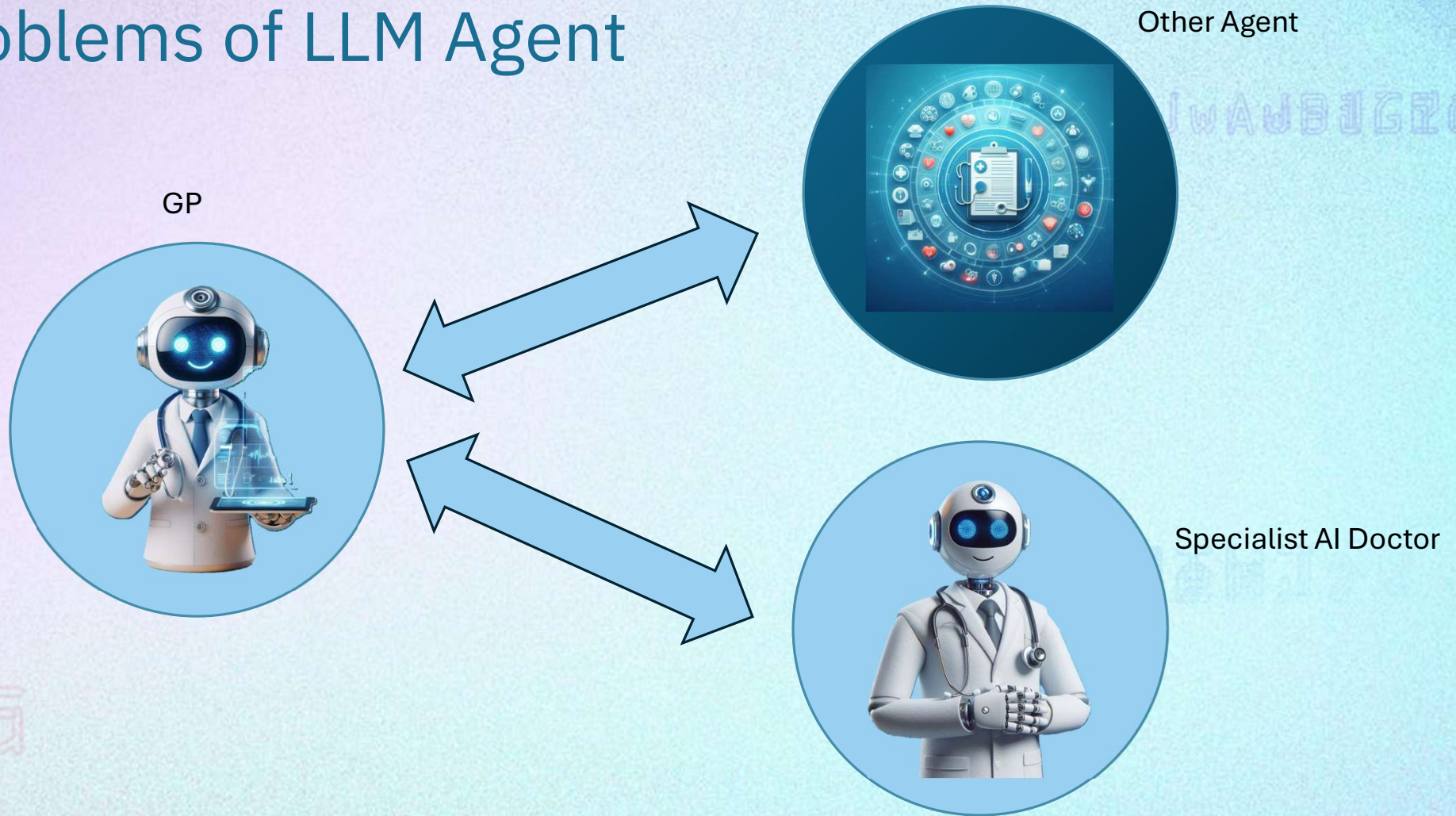
The Internet of Agents for the new AI economy

AgenticProtocol.ai



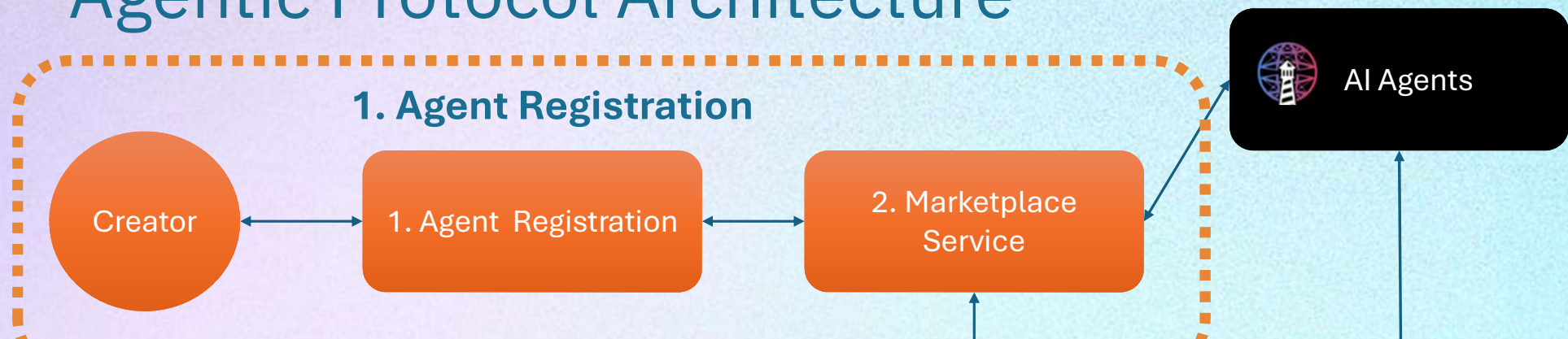


# Problems of LLM Agent

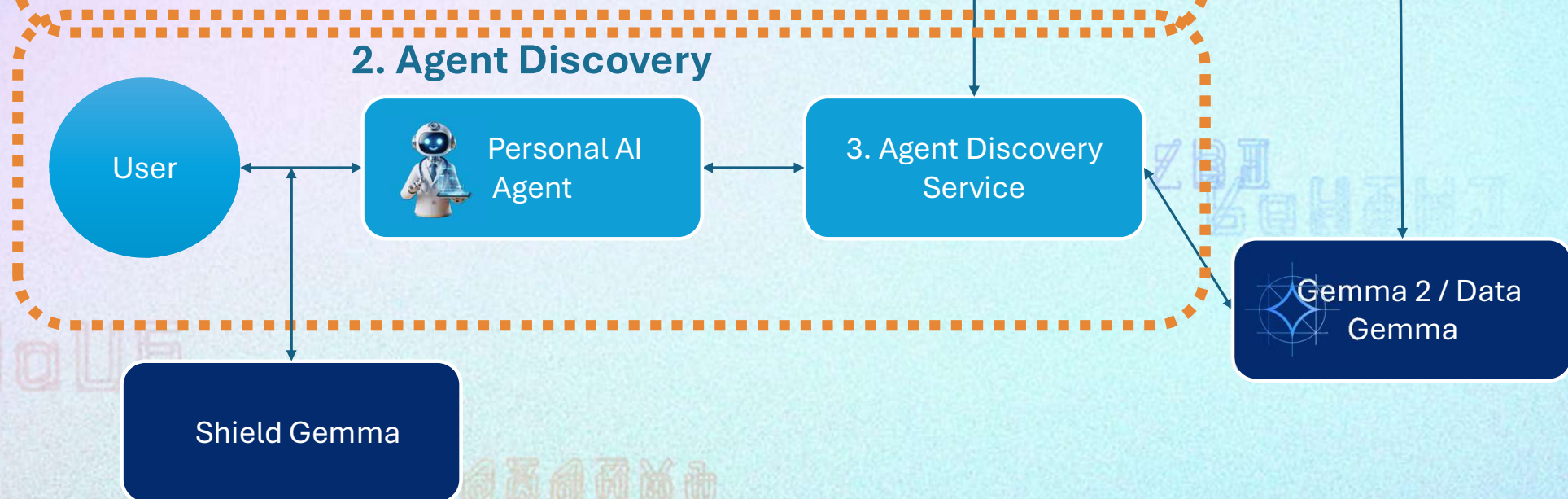


# Agentic Protocol Architecture

## 1. Agent Registration

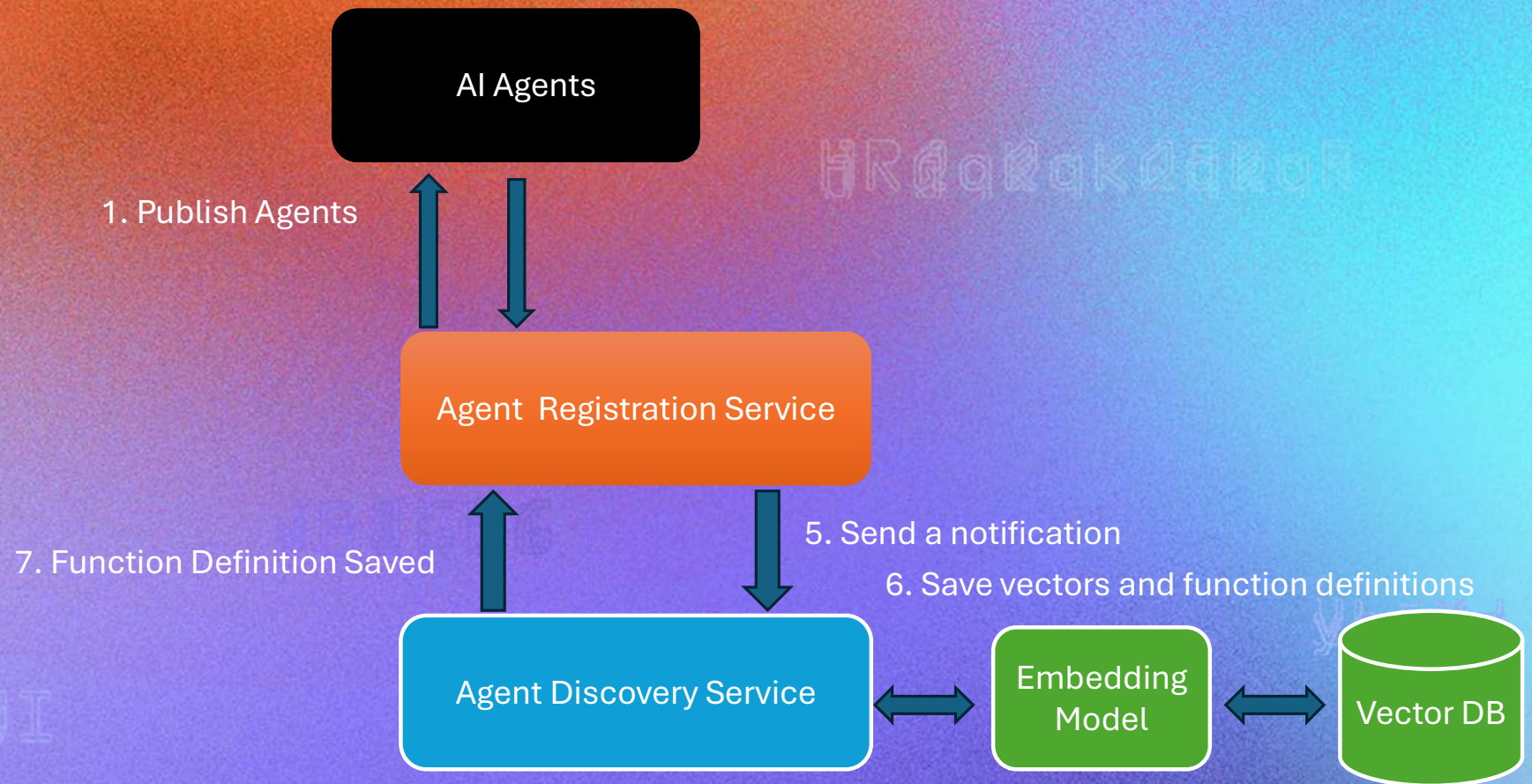


## 2. Agent Discovery

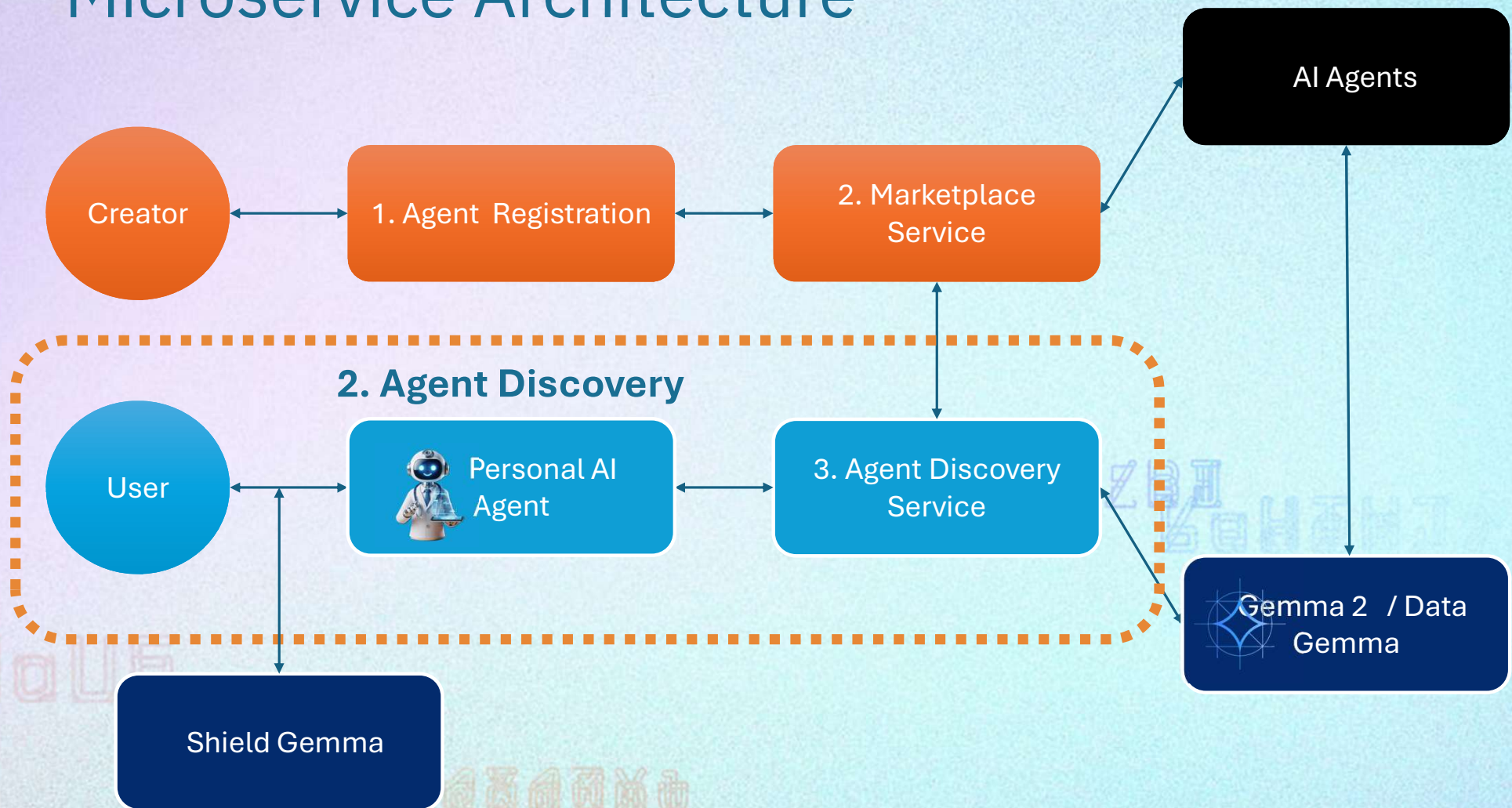




# Agent Registration

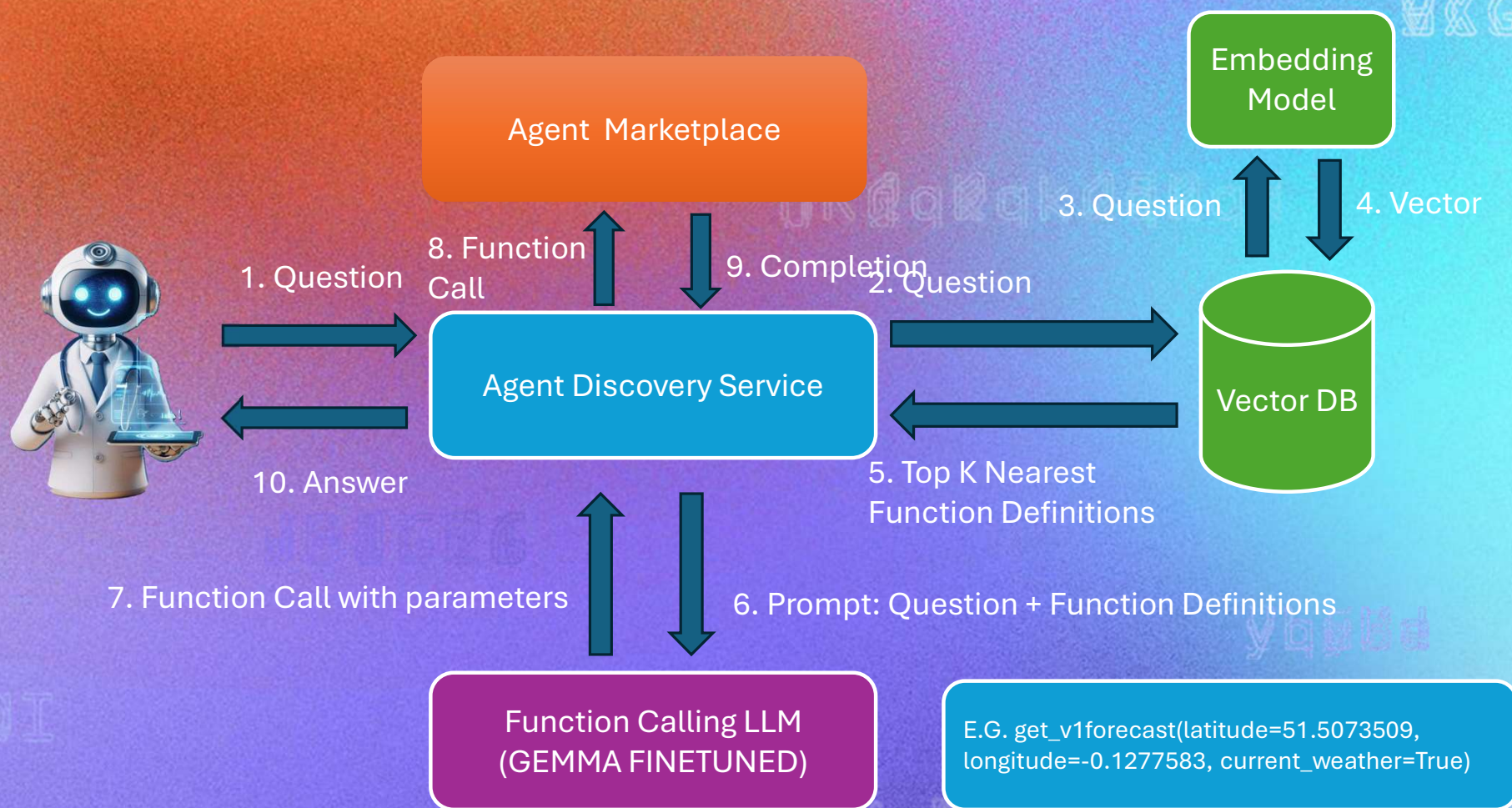


# Microservice Architecture

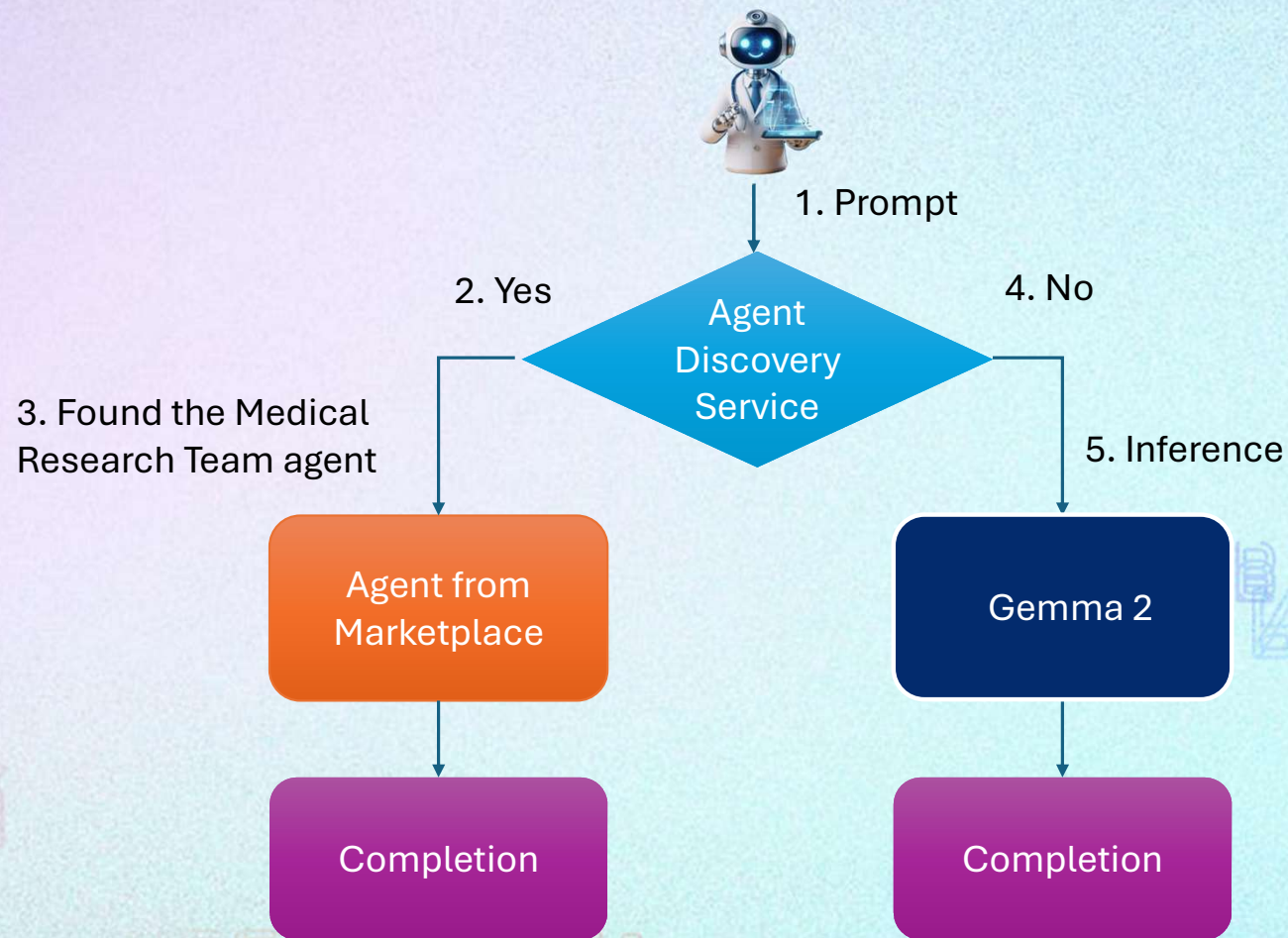




# Agent Discovery Service

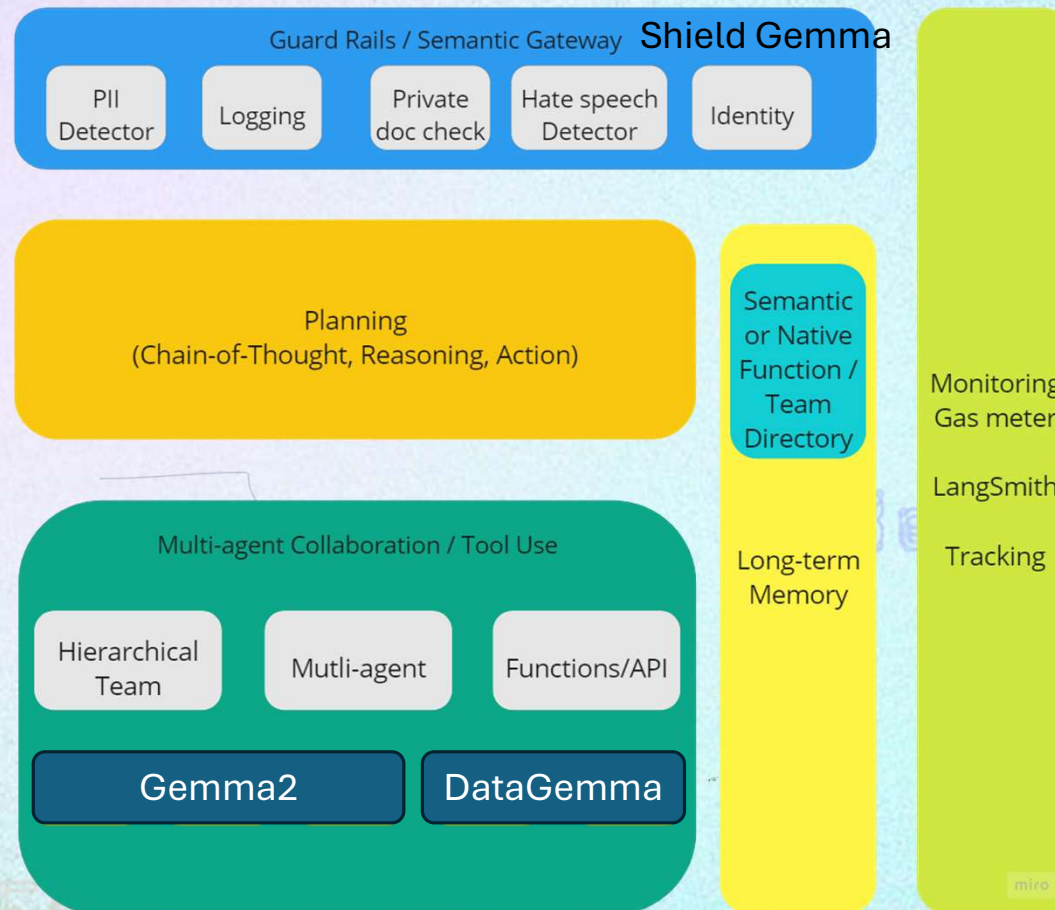


# Agent Discovery Demo Flowchart





# Node Logical Architecture Diagram





# Function Calling(finetuned on GEMMA) with RAG

## Define functions

Function:

```
get_v1forecast(latitude: float,  
longitude: float,...) -> Dict[str,  
Any]  
"""
```

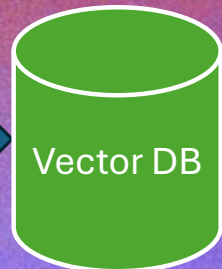
Requires the latitude and longitude.  
Set current\_weather to True to get the weather.  
Set hourly or daily based on preference.  
"""

Function:

```
def give_joke(category : str):  
"""
```

Joke categories. Supports: Any, Misc, Programming, Dark, Pun, Spooky, Christmas.  
"""

User Query: **Hey how is the current weather and windspeed in London?**<human\_end>



Vector DB

Vector Search

Prompt

LLM

## Results

```
get_v1forecast(latitude=51.5073509,  
longitude=-0.1277583,  
current_weather=True)
```

# Chat UI

 [app.prosperchain.co.uk](http://app.prosperchain.co.uk) 

 **AgenticProtocol**

Enter your question here:

Where is the city of Italy

Submit

Where is the city of Italy 

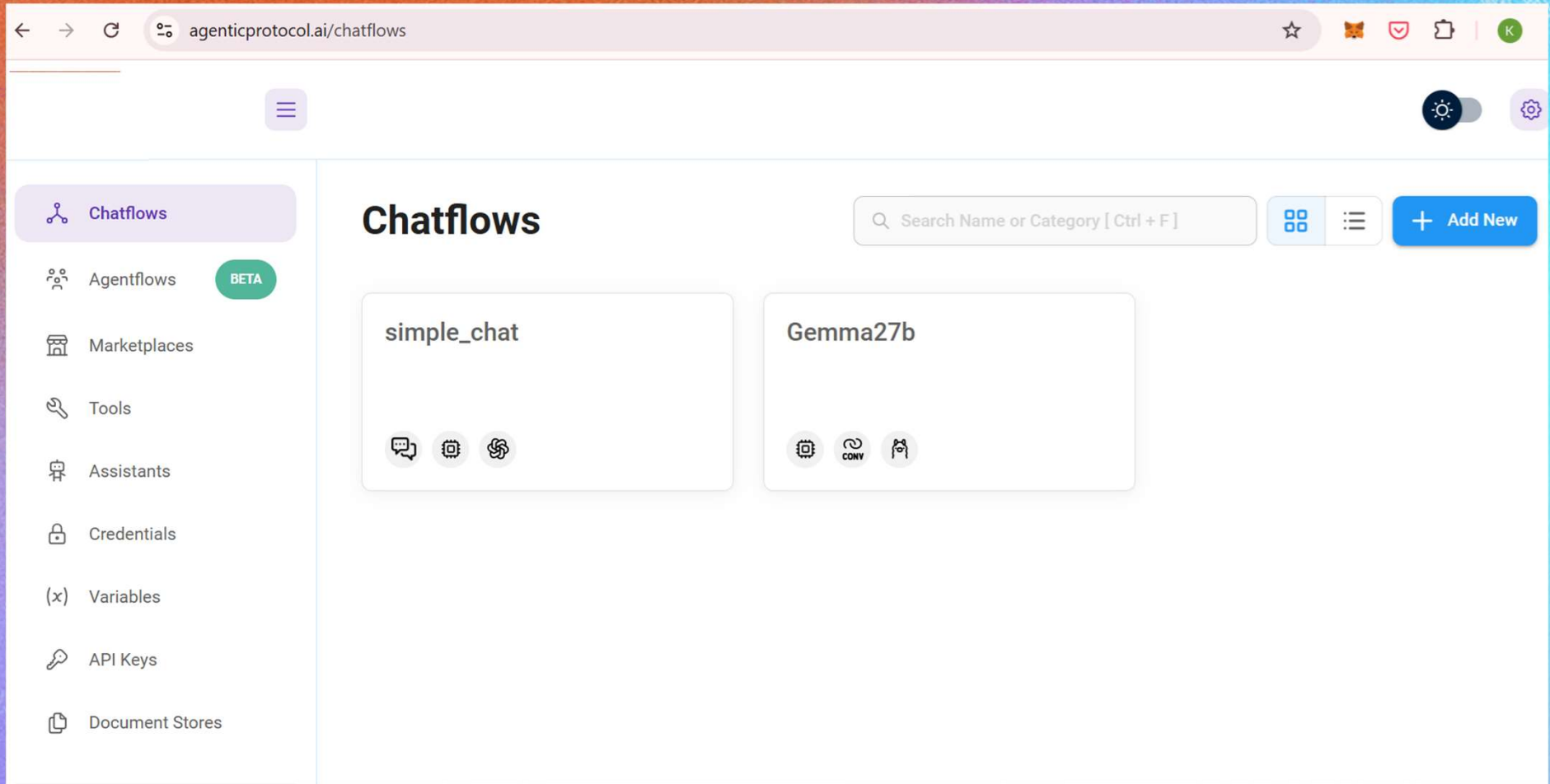
 That's a bit tricky!

**Italy itself is a country**, not a city.

Do you mean a specific city *in* Italy? If so, could you please tell me the name of the city you're looking for? 😊



# Agent Building Tool



# Agent APIs

The screenshot displays the Postman API client interface. The top navigation bar includes 'Home', 'Workspaces', and 'API Network'. The main workspace is titled 'Agentic Protocol Workspace' and shows a list of collections under 'Agentic Protocol'. The selected collection is 'POST Create\_Agent - Software Team'. The main panel shows the configuration for a POST request to 'http://localhost:8080/api/v1/agent'. The 'Query Params' section is empty. The 'Response' section shows a placeholder image of an astronaut and the text 'Click Send to get a response'. A notification at the bottom left states 'You've made new changes. Post an update to inform others.'

Agentic Protocol Workspace

POST Create\_Agent - Software Team

POST http://localhost:8080/api/v1/agent

Params Authorization Headers (9) Body Scripts Tests Settings Cookies

Query Params

| Key | Value | Description |
|-----|-------|-------------|
| Key | Value | Description |

Response History

You've made new changes. Post an update to inform others.

Click Send to get a response



## Core Principles of Agentic Protocol

- **Purposeful**: Defined goals, policies, behaviors, ethics.
- **Accountable**: Governed by responsible owners.
- **Trustworthy**: Safe, secure, compliant.
- **Independent**: Autonomous decision-making.
- **Intelligent**: Cognitive abilities to plan, reason, learn.
- **Collaborative**: Share information and resources.

## Ecosystem Principles:

- **Discoverability:** Mechanisms for finding agents.
- **Observability:** Monitor and audit behavior.
- **Interoperability:** Communicate across technologies.
- **Certifiability:** Ensure trustworthiness and ethics.
- **Operability:** Stable, reliable infrastructure.
- **Economic Vitality:** Incentivize valuable agents.



# The Agentic Protocol Ecosystem:

- **Marketplace:** Discover and engage with agents.
- **Registry:** Central repository for agent metadata.
- **DNS:** Locate agents with human-readable names.

# The Democratization and Decentralization of AI

- **AI Accessibility:** Making AI tools and technologies available to a broader audience.
- **Empowerment:** Enabling individuals and organizations to leverage AI without requiring deep technical expertise.



## **Key Aspects:**

- **Open Source Tools**
- **Low-Code/No-Code Platforms:**

# Thank you for your support!

- **Lablab.ai**
- **Google**

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