DIAL: Local setup

JUNE 2025

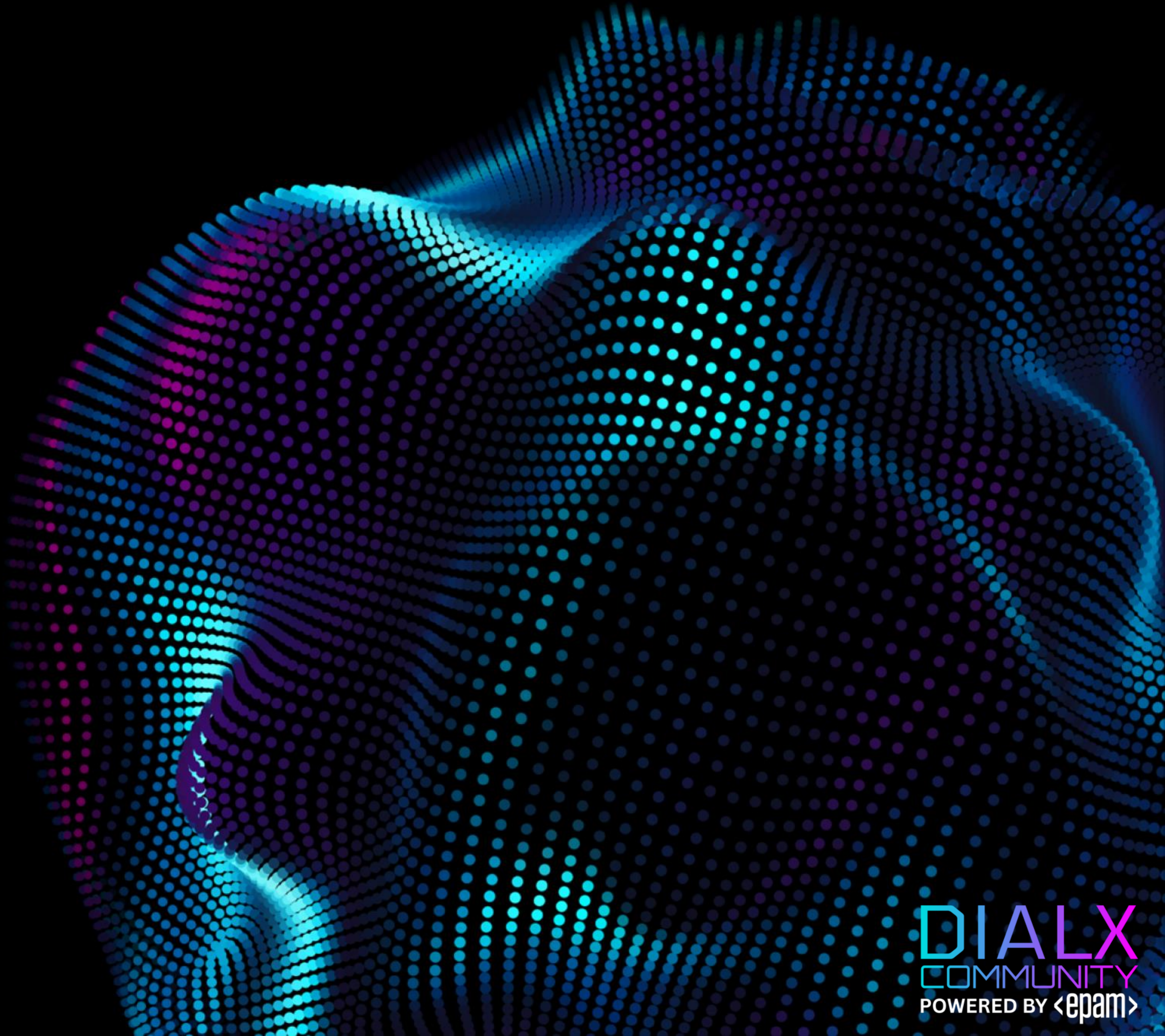
Before we start:

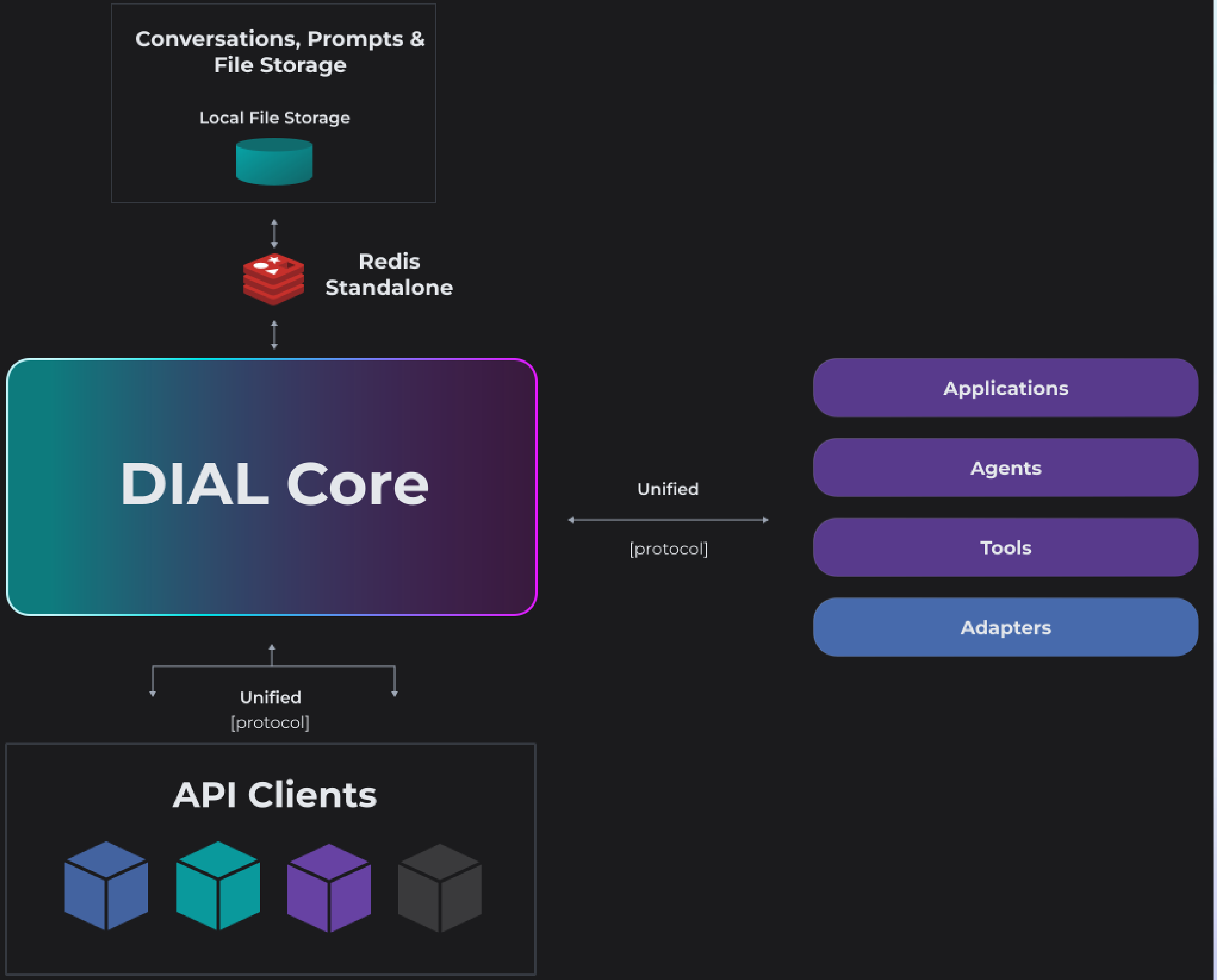
- Raise your hand and ask questions if you have any
- It is better to ask questions when you have
- Also, type them in chat
- We will need DIAL API key for this session

Agenda:

- Presentation:
  - About DIAL Infrastructure
  - DIAL Core configuration
- Workshop:
  - Setup locally DIAL Chat with Core, Redis (to store conversations and files) and Themes for Chat
  - Configure and add Echo application to DIAL Core
  - Configure and add openai, anthropic and gemini models to DIAL Core
  - Setup dial-adapter-dial
  - Write and configure Essay Assistant

About Infrastructure

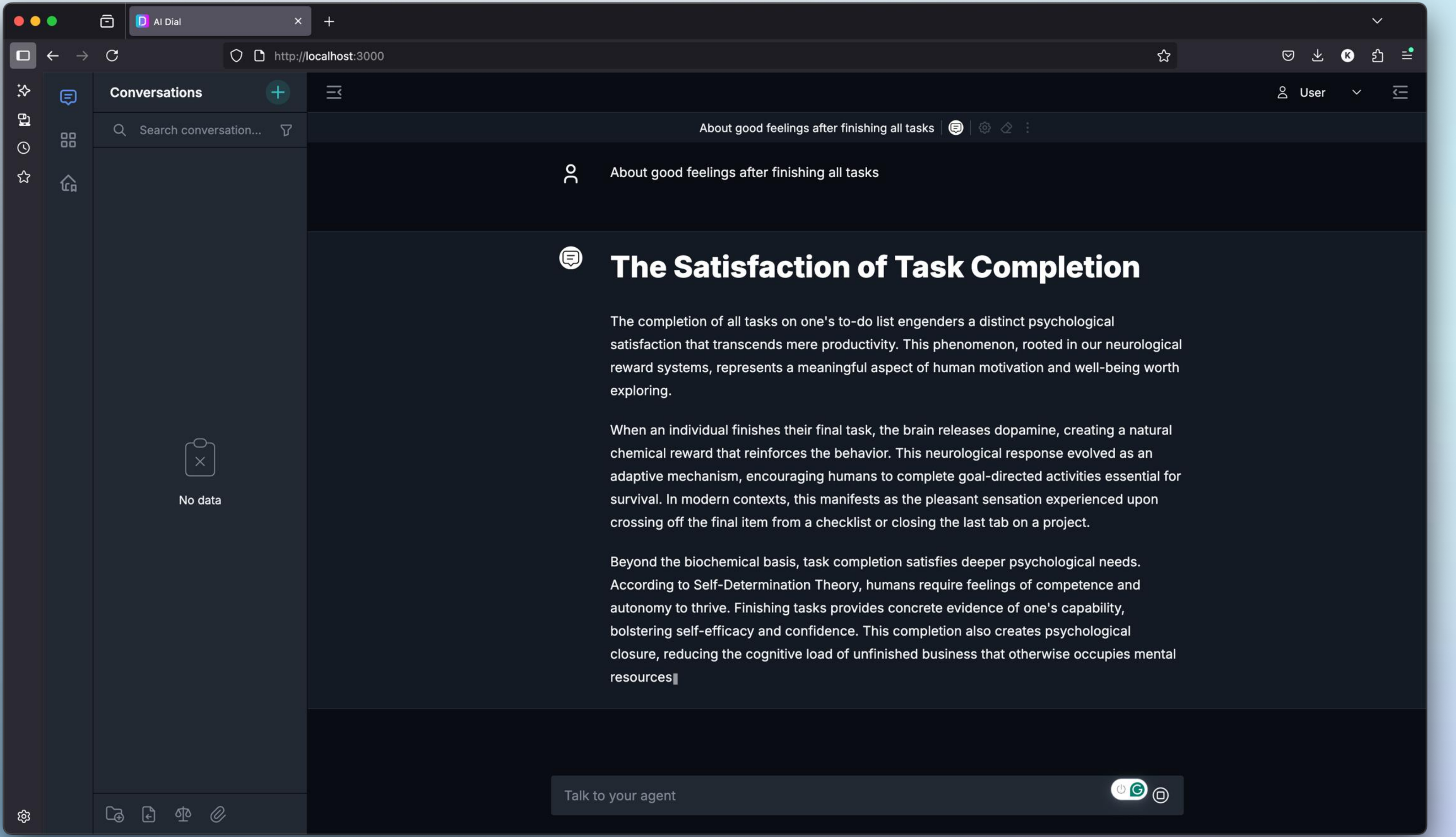




DIAL Core is the main integration hub that uses a Unified Protocol (OpenAI compatible) to enable governed, unified access to all features for internal/external clients, LLM models, and applications.

DIAL provides a single **unified** OpenAI-compatible API for accessing all language models, embeddings, and applications, creating a unification layer that makes models and applications interchangeable for cohesive conversational experiences and future-proof GenAI development. https://dialx.ai/dial_api

DIAL Chat is a customizable enterprise chat application with access control and extensible GenAI functionality. Overlay enables seamless embedding into existing web applications.



About good feelings after finishing all tasks

The Satisfaction of Task Completion

The completion of all tasks on one's to-do list engenders a distinct psychological satisfaction that transcends mere productivity. This phenomenon, rooted in our neurological reward systems, represents a meaningful aspect of human motivation and well-being worth exploring.

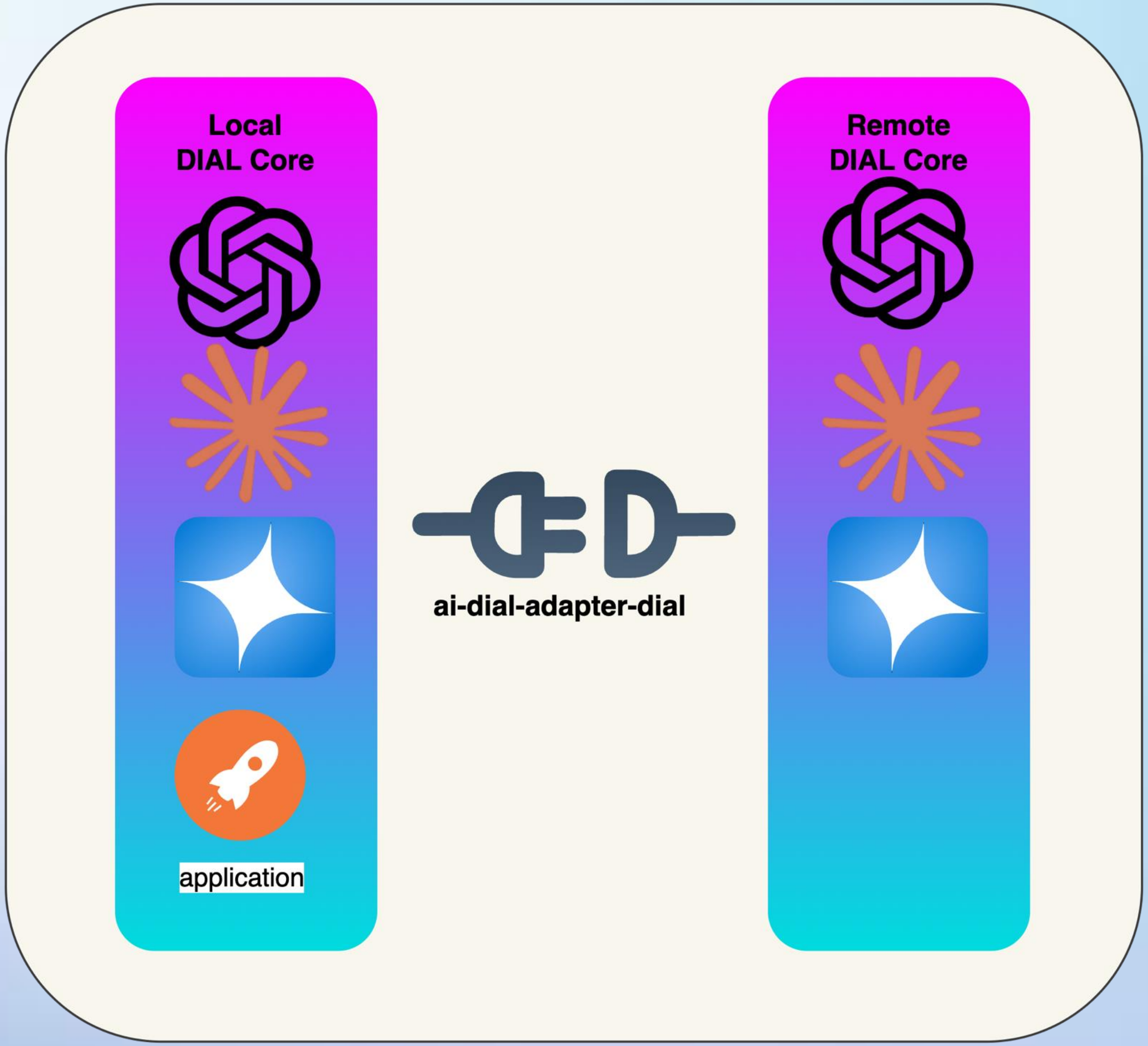
When an individual finishes their final task, the brain releases dopamine, creating a natural chemical reward that reinforces the behavior. This neurological response evolved as an adaptive mechanism, encouraging humans to complete goal-directed activities essential for survival. In modern contexts, this manifests as the pleasant sensation experienced upon crossing off the final item from a checklist or closing the last tab on a project.

Beyond the biochemical basis, task completion satisfies deeper psychological needs. According to Self-Determination Theory, humans require feelings of competence and autonomy to thrive. Finishing tasks provides concrete evidence of one's capability, bolstering self-efficacy and confidence. This completion also creates psychological closure, reducing the cognitive load of unfinished business that otherwise occupies mental resources

DIAL Adapter:

The DIAL adapter simplifies DIAL application development and local deployment by enabling communication between two DIAL Core instances, eliminating manual LLM model setup and providing access to any remote DIAL Core model within your API key scope.

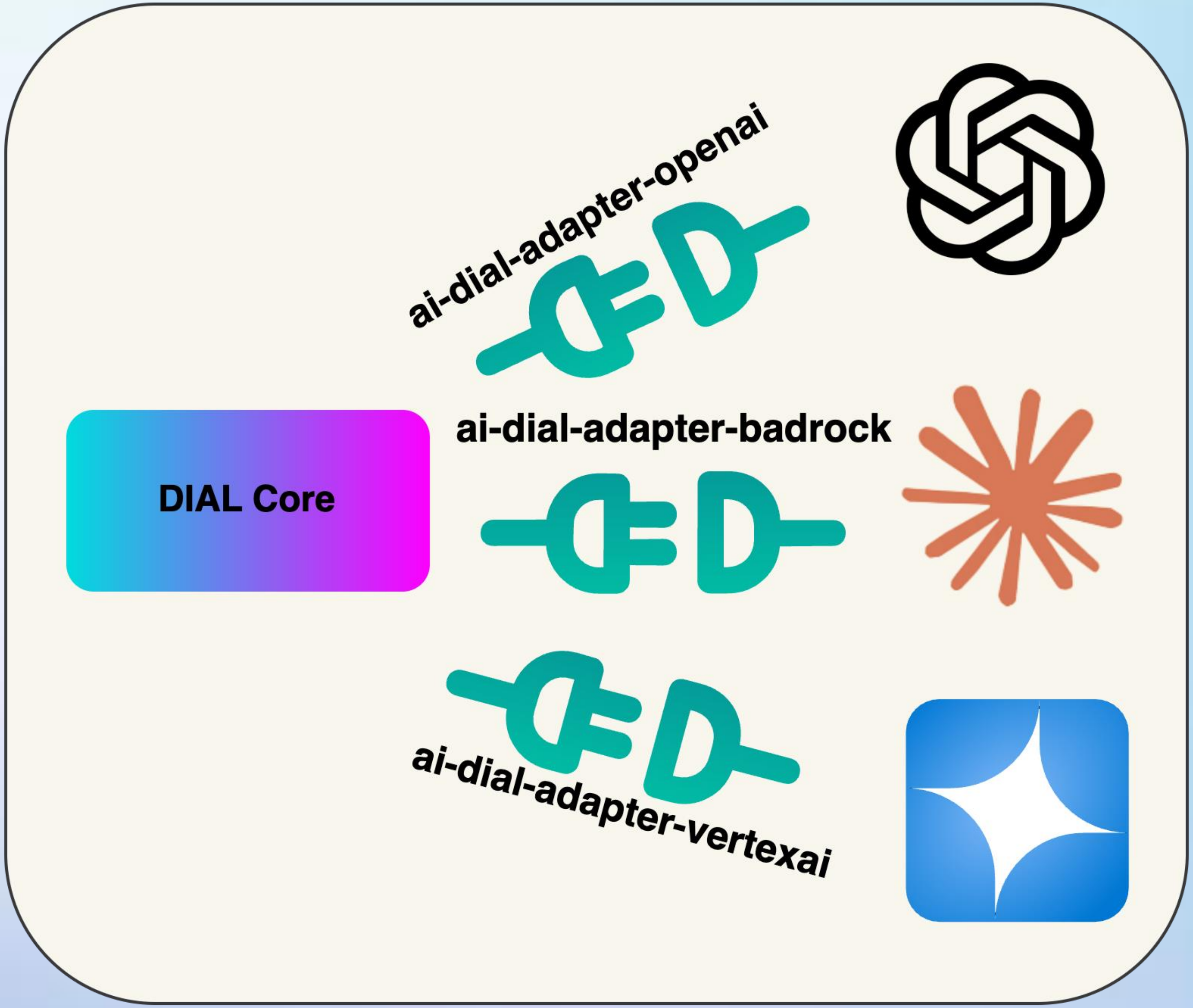
The ai-dial-adapter-dial is created for local development. With this adapter we configure map of connections from local environment to remote one.



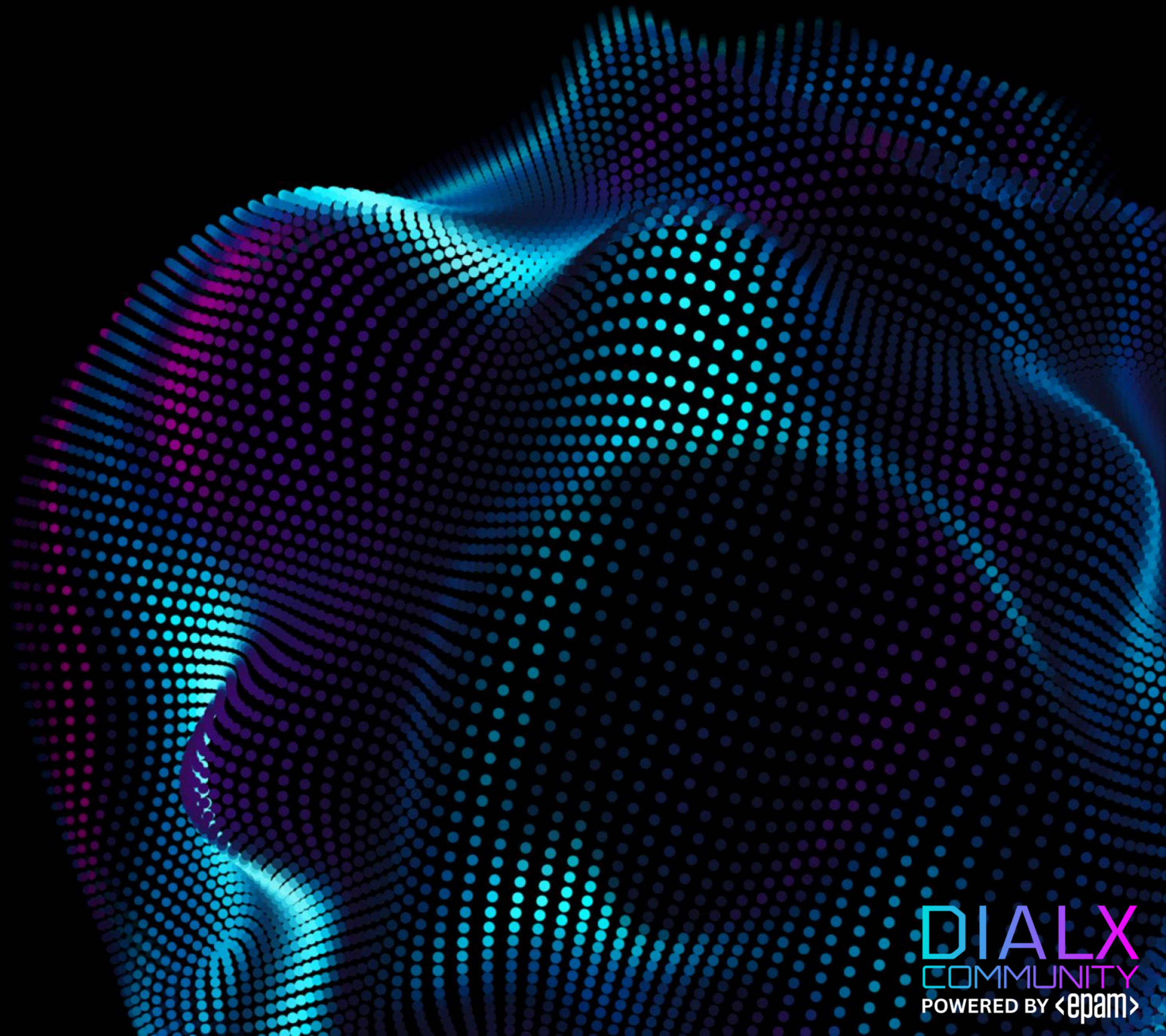
DIAL Adapter:

ai-dial-adapter-openai allow applications and models from DIAL Core to connect *openai* models that are within and not within DIAL Core

The same story with vertex and bedrock adapters for Gemini and Anthropic



DIAL Core Configuration



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Core config:

To add new custom application, you need to add configuration to “applications”.

“endpoint” is URL within DIAL Core for application

Pay attention that key (*echo*) should be the same as in endpoint, otherwise you will get 404 on access this app or model

```
{
 "routes": {},
 "applications": {
  "echo": {
    "displayName": "My Echo App",
    "description": "Simple application that repeats user's message",
    "endpoint": "http://host.docker.internal:5022/openai/deployments/echo/chat/completions"
  }
 },
 "models": {},
 "keys": {
  "dial_api_key": {
   "project": "TEST-PROJECT",
   "role": "default"
  }
 },
 "roles": {
  "default": {
   "limits": {}
  }
 }
}
```

DIAL Adapter:

To add a new model, you need to add configuration to “models”.

“endpoint” is URL within DIAL Core for model

In “upstreams” you configure endpoint to model.
Don’t forget to add your API Key

```
{
 "routes": {},
 "applications": {},
 "models": {
  "gpt-4o": {
    "displayName": "GPT 4o",
    "endpoint": "http://adapter-dial:5000/openai/deployments/gpt-4o/chat/completions",
   "iconUrl": "http://localhost:3001/gpt4.svg",
    "type": "chat",
    "upstreams": [
     {
      "endpoint": "https://ai-proxy.lab.epam.com/openai/deployments/gpt-4o/chat/completions",
      "key": "{REPLACE_WITH_YOUR_API_KEY}"
     }
    ]
  }},
 "keys": {
  "dial_api_key": {
   "project": "TEST-PROJECT",
   "role": "default"
  }
 },
 "roles": {
  "default": {
   "limits": {}
  }
 }
}
```

DIAL Adapter:

In “keys” you can set up api keys for DIAL Core and their roles.
By default we are using *dial_api_key* as a key, if you change it for local usage – don’t forget to change the env variable for local DIAL Chat

```
{
 "routes": {},
 "applications": {},
 "models": {
  "gpt-4o": {
   "displayName": "GPT 4o",
   "endpoint": "http://adapter-dial:5000/openai/deployments/gpt-4o/chat/completions",
   "iconUrl": "http://localhost:3001/gpt4.svg",
   "type": "chat",
   "upstreams": [
    {
     "endpoint": "https://ai-proxy.lab.epam.com/openai/deployments/gpt-4o/chat/completions",
     "key": "{REPLACE_WITH_YOUR_API_KEY}"
    }
   ]
  } },
 "keys": {
  "dial_api_key": {
   "project": "TEST-PROJECT",
   "role": "default"
  }
 },
 "roles": {
  "default": {
   "limits": {}
  }
 }
}
```

DIAL Adapter:

Additionally you can set up limits for model usage. You can set up restrictions of how many tokens one user can use for some duration time.

Pay attention that it works for models, for applications it will be ignored.

```
{
 "models": {
   "gpt-4o": {
     "displayName": "GPT 4o",
     "endpoint": "http://adapter-dial:5000/openai/deployments/gpt-4o/chat/completions",
     "iconUrl": "http://localhost:3001/gpt4.svg",
     "type": "chat",
     "upstreams": [
       {
         "endpoint": "https://ai-proxy.lab.epam.com/openai/deployments/gpt-4o/chat/completions",
         "key": "{REPLACE_WITH_YOUR_API_KEY}"
       }
     ]
   }
  },
  "keys": {
   "dial_api_key": {
     "project": "TEST-PROJECT",
     "role": "default"
   }
  },
  "roles": {
   "default": {
     "limits": {
          "gpt-4o": {
               "minute": 100,
               "month": 1000000,
          }
     }
   }
  }
}
```

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Thank you!