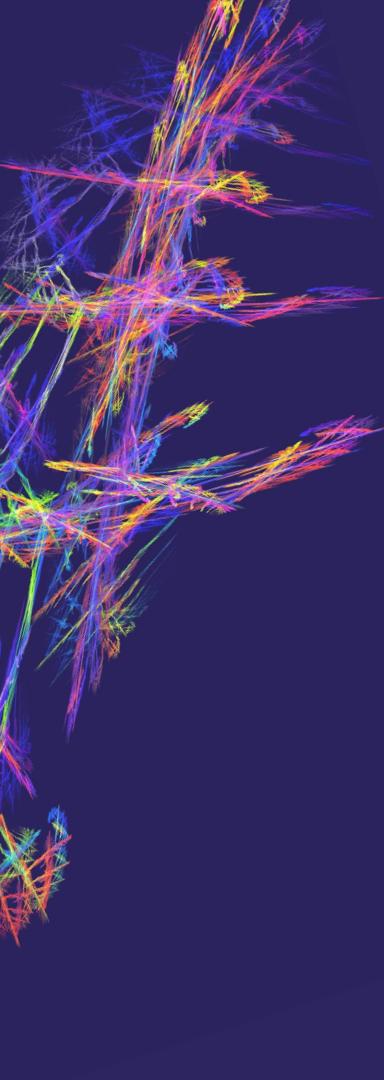


CerebrumDAO

BIO x AI Hackathon 2025

CoreAgent Problem Deep Dive

A complex, colorful network of lines and dots resembling a brain's neural connections, primarily in shades of blue, green, yellow, and red, occupies the left side of the slide.

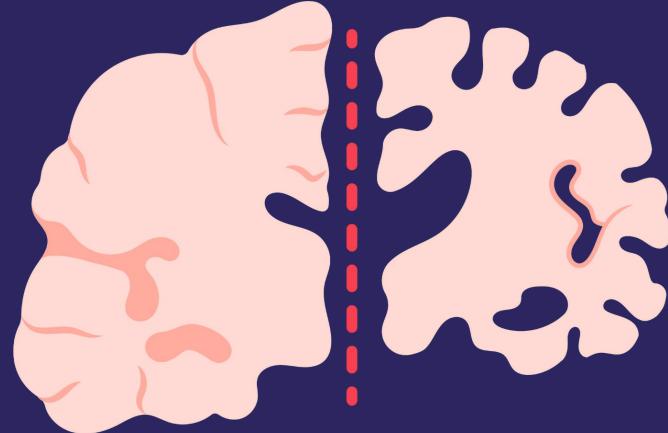
Brains Helping Brains

We are an open global community collectively sourcing, funding, and accelerating solutions to advance brain health and prevent Alzheimer's disease and overall neurodegeneration

Neurodegeneration Challenges



Structure / Function
Emulation / Enhancement
Neuroimaging Biomarkers

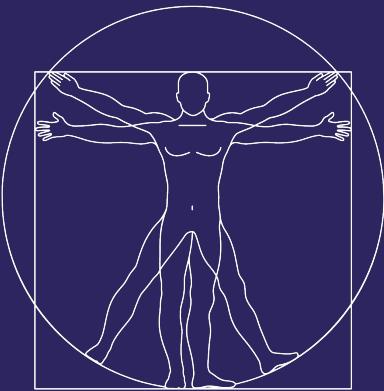


Damage / Degeneration
Disease / Disorders
Interventions / Treatments

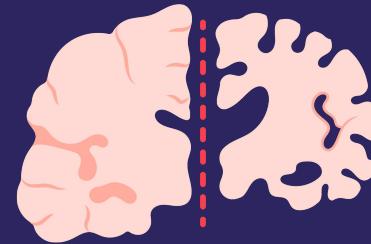
Brain Health Journey



Lifestyle
Factors



“Natural”
Aging

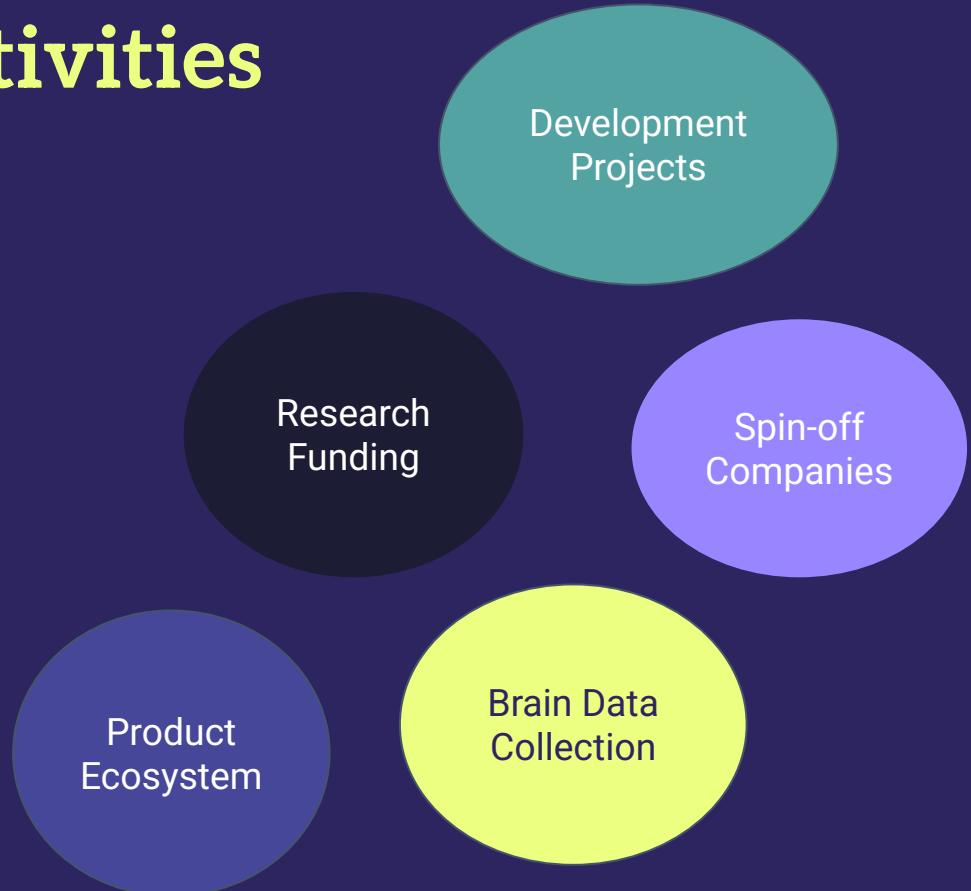
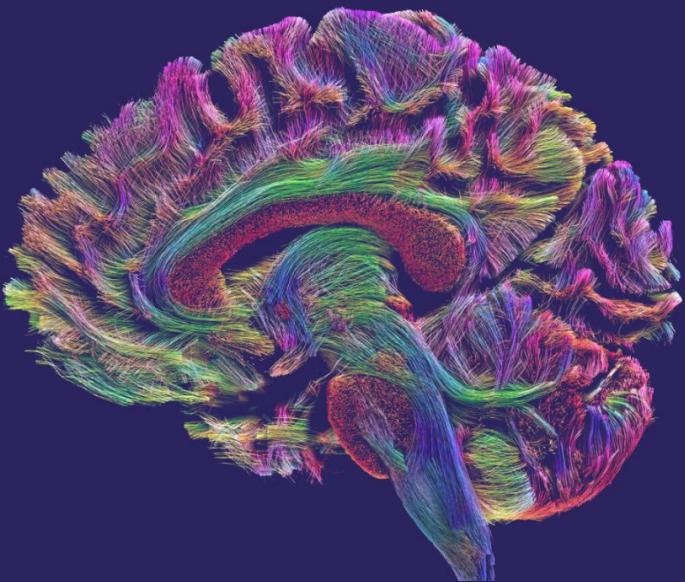


Interventions

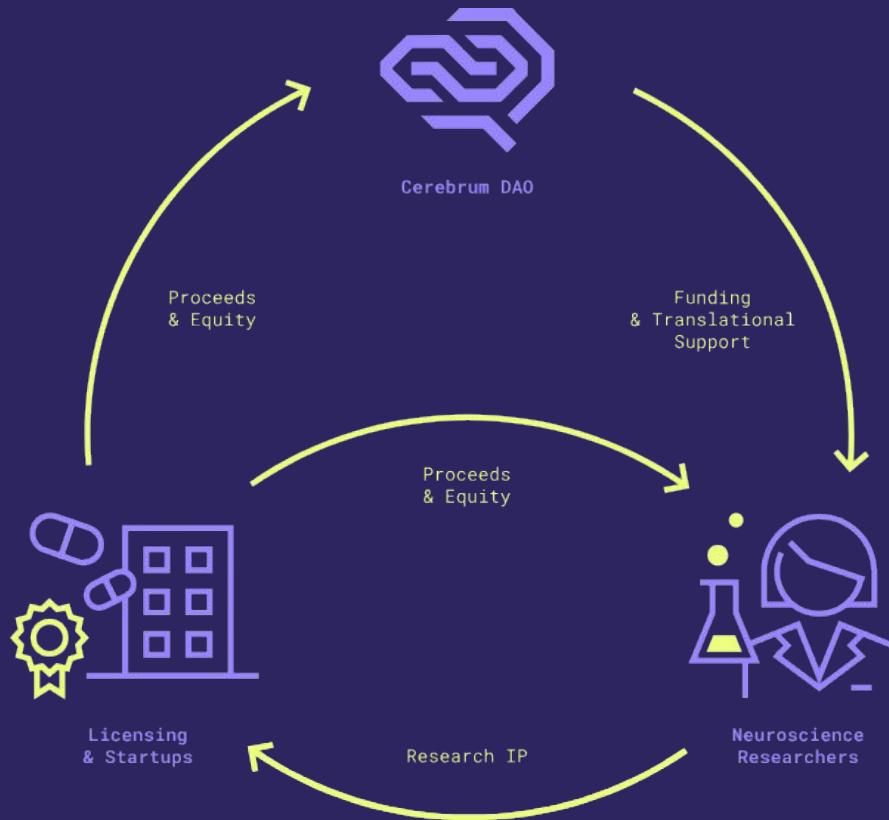


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Cerebrum DAO Activities



Cerebrum DAO Activities



Neuroscience Knowledge

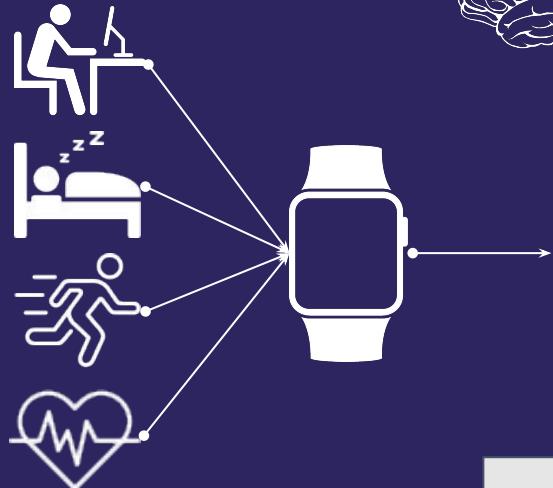
Deal Sourcing

Portfolio Management

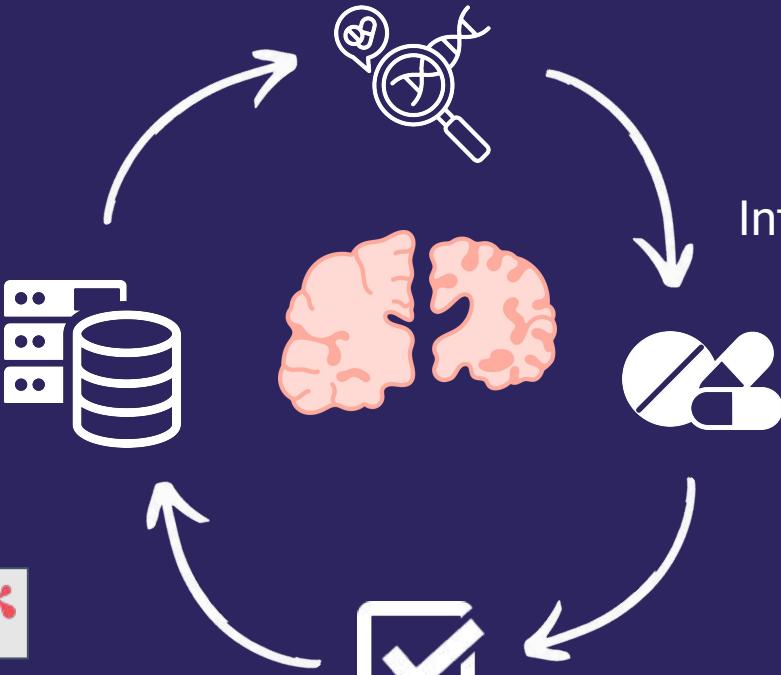
Research Study

Cerebrum DAO Activities

Brain Assessment



Biomarkers

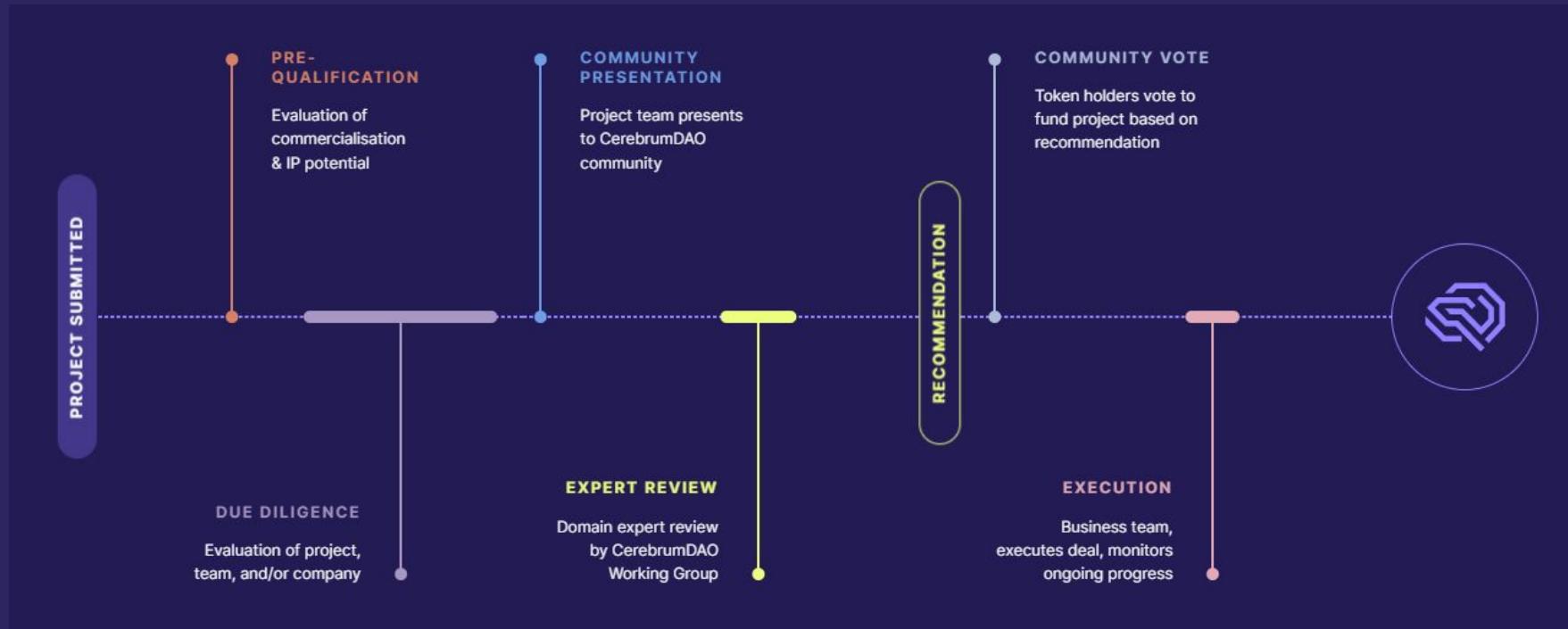


Interventions

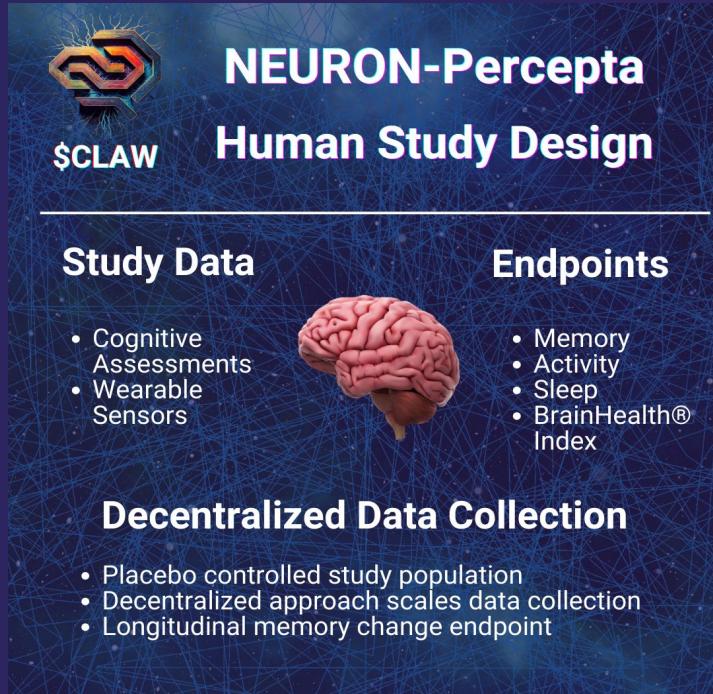
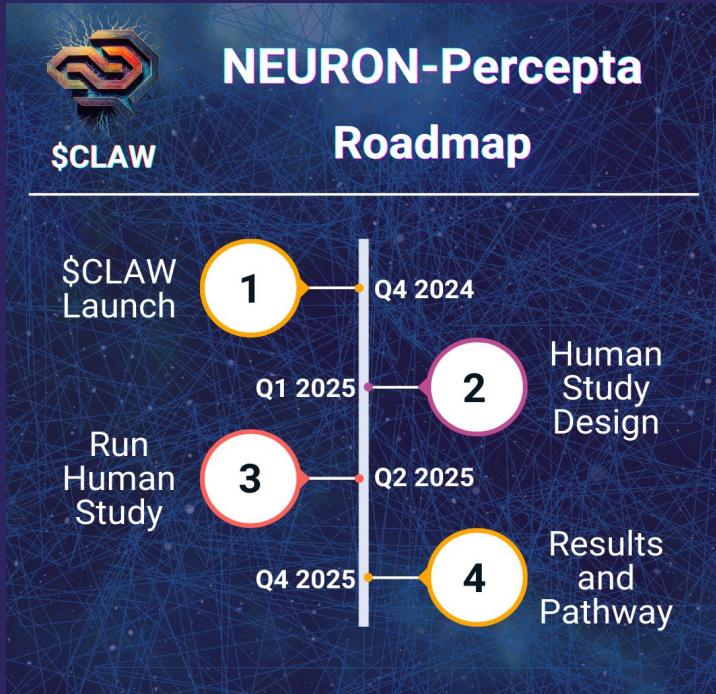


xponetiq

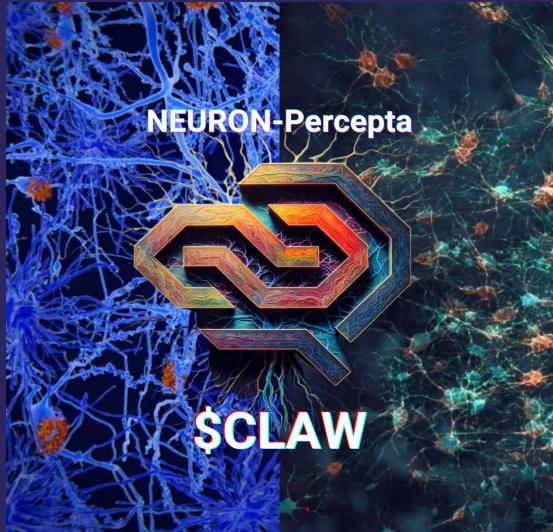
Deal Flow Process



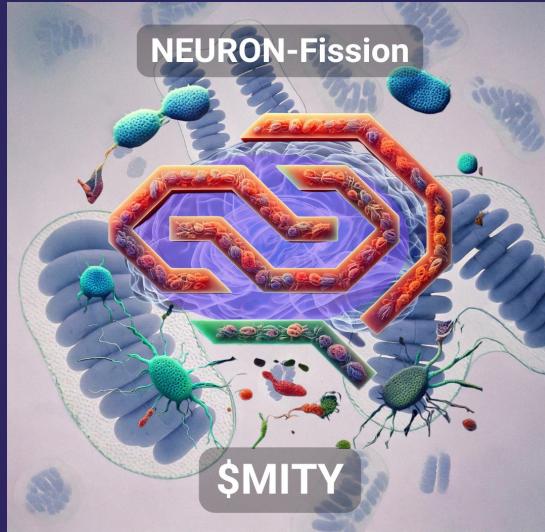
IPT Project Execution



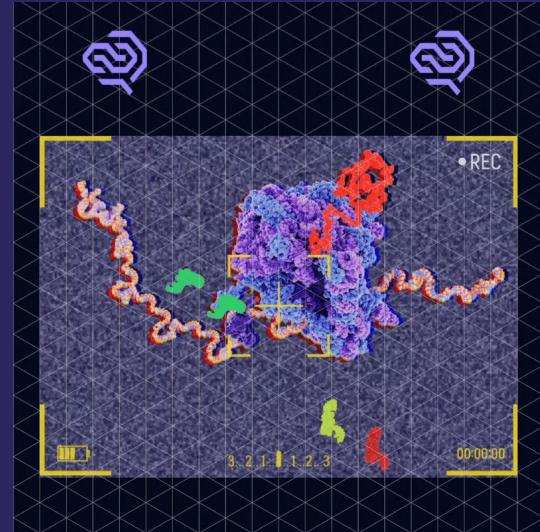
IPT-NFT Projects



Tao plaques and tangles reduction



Mitochondrial dysfunction



Protein stability preventing aggregates

Core Team

Translational Neuroscience

Products

Community Growth

Governance and Operations

Neuroscience Research

Translational Science

User Research

Product Requirements

Community Management

Awareness

Governance Mechanics

CDP Process

Awareness

Deal Sourcing

Product Design

Product Sourcing

Social Media

Events

Governance Discussion

Legal Framework

Relationship Management

Deal Evaluation

Podcasts

Market Marketing

Finances

Payroll

Relationship Building

Deal Execution

KOL Relationships

Merch

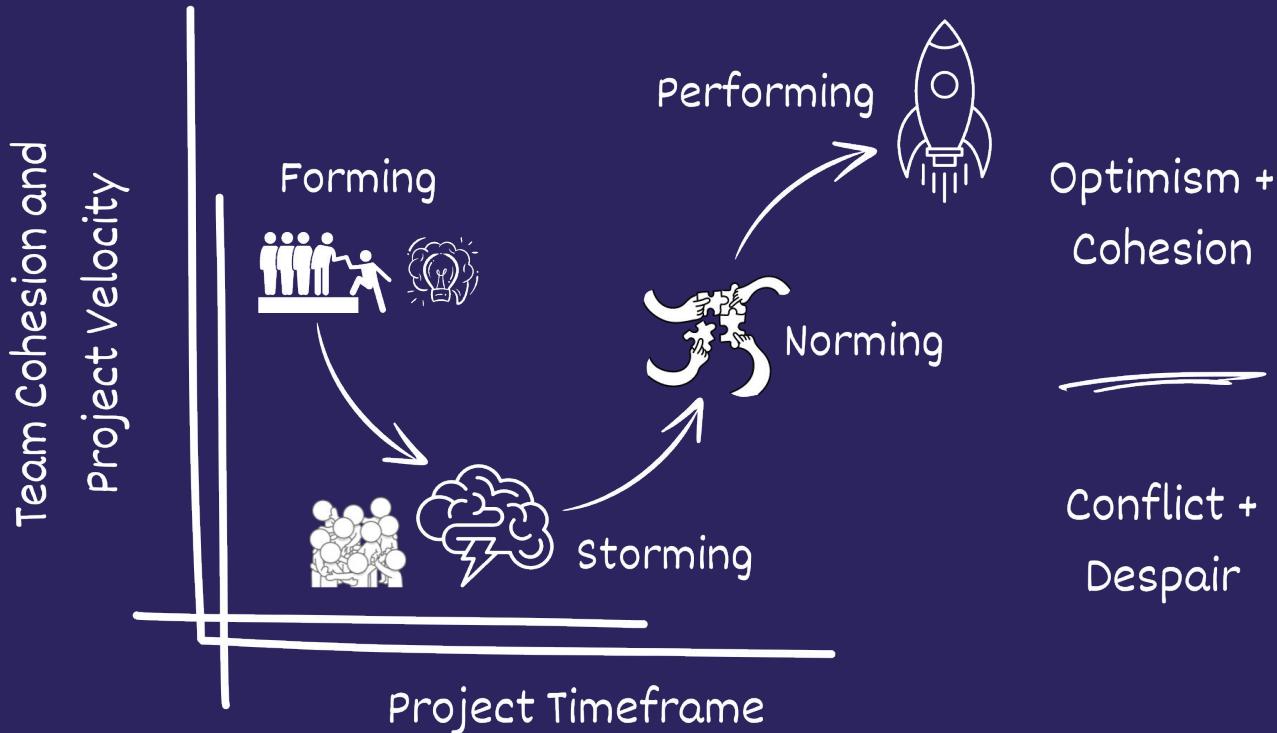
Knowledge / Task

Token Management



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Team Dynamics





Agent Core Systems

Research

Deal Evaluation

IPT Projects



Brain Health

Product Sourcing

Track research and build the Cerebrum Knowledge Graph

Validate mission, vision, and impact fit

Engage the community and share project knowledge

Support personalized brain health knowledge and interventions



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Agent Roadmap

Prototyping

- Requirements analysis
- LLM fine-tuning
- Agent flow MVPs

Agent App Releases

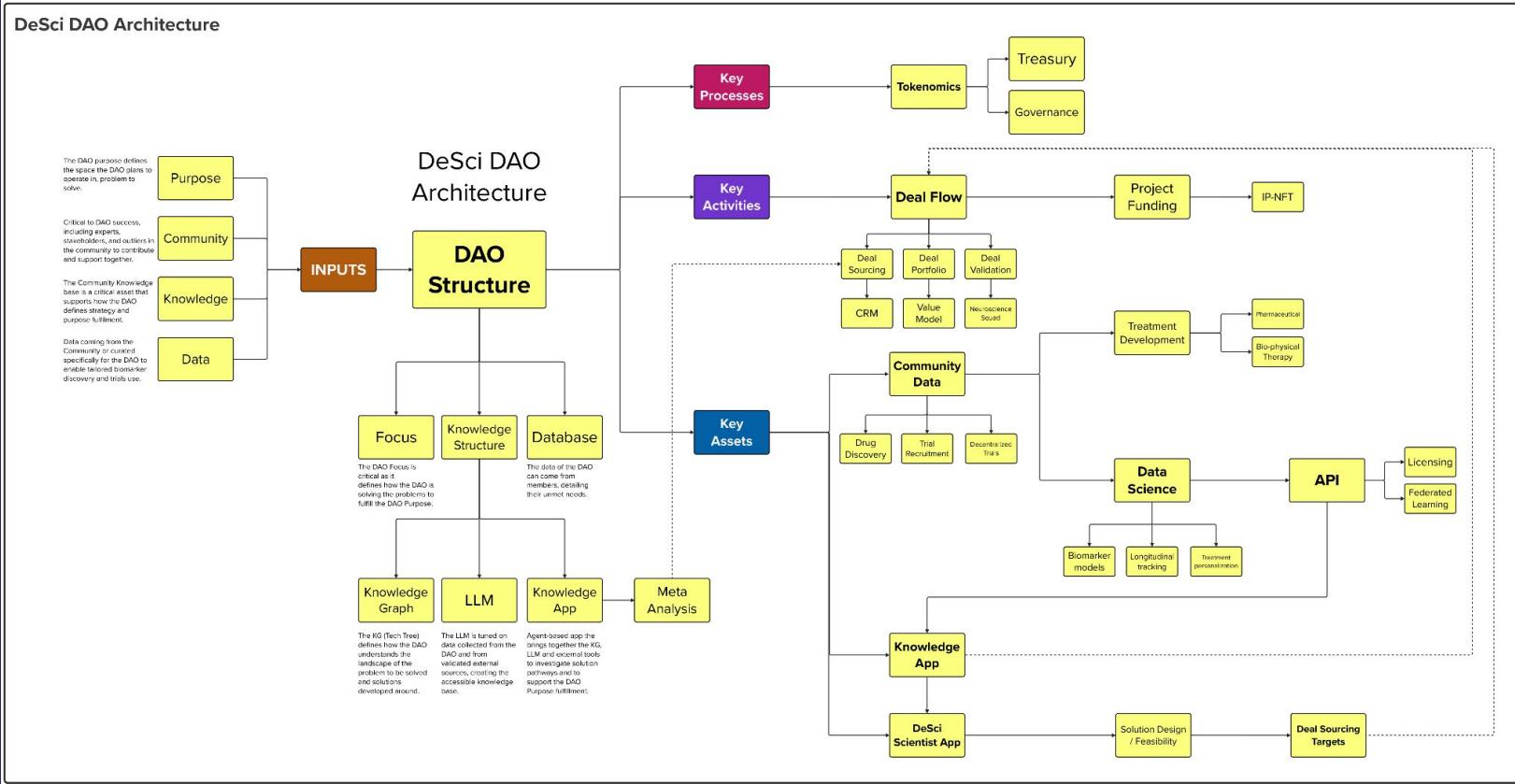
- Brain Health Assistant
- Cerebrum Research Agent
- Product Sourcing Agent
- IPT Agent Identities (\$CLAW)

Advanced Agents

- Cerebrum Knowledge Graph
- Dealflow
- Brain Health Personalization

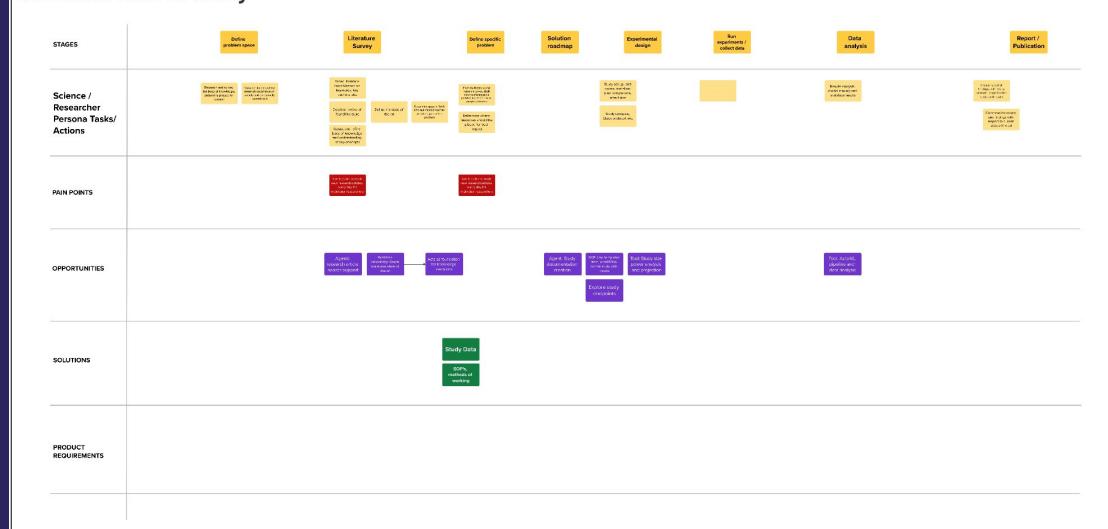


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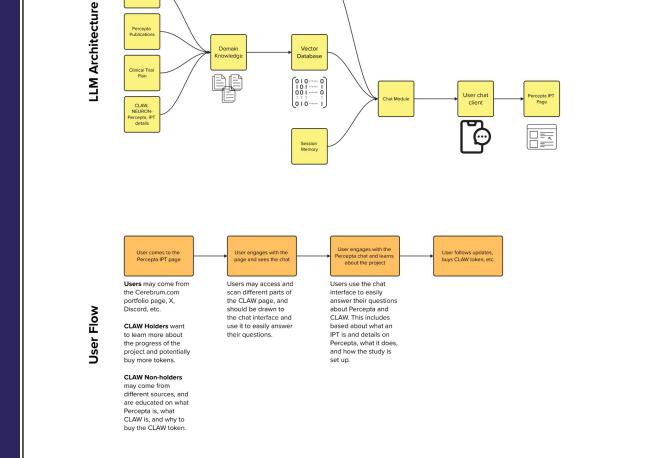


Agent Design Approach

Research User Journey



Percepta IPT Chat/Agent



Problems / Needs



Neuroscience Research
Knowledge Graph Curation
Senior Review
Deal Flow
Product Sourcing
Drug Development

Problems / Needs

Neuroscience Research

Knowledge Graph Curation

Senior Review

Dealflow

Product Sourcing

Drug Development

Agent 1: Neuroscience Research

🎯 Goals

- Mine neuroscience advancements
- Evaluate novelty & impact of literature findings
- Integrate “approved” research into DAO knowledge base

🤖 Sub Agents

- Web scraper
- Preliminary analysis screener
- Paper (in depth) evaluator
- Report generator
- Knowledge integrator

Potential Integration with YNE reviewer agent

🧐 Agent Identity

- Automates literature mining, filters, evaluates, and reports on novel neuroscience studies.

🧠 Available Data

- Cerebrum Portfolio, Mission & Vision
- Evaluated papers
- Cases approved or rejected

Problems / Needs



Neuroscience Research

Knowledge Graph Curation

Senior Review

Dealflow

Product Sourcing

Drug Development

Agent 2: Knowledge Graph Curation

🎯 Goals

- Curate the knowledge base with high quality data for the knowledge graph

🤖 Sub Agents

- Preliminary screener (from Neuroscience Research)
- Knowledge integrator (from Neuroscience Research)

🧐 Agent Identity

- Create a high quality knowledge graph

🧠 Available Data

- CerebrumDAO approved & rejected cases

Problems / Needs



Neuroscience Research
Knowledge Graph Curation

Senior Review

Dealfow
Product Sourcing
Drug Development

Agent 3: Senior Review

🎯 Goals

- Review incoming dealflow/research
- Assess its scientific merit
- Generate report for human reviewers

🤖 Sub Agents

- Scientific methodology checker
- Research/paper logic reviewer
- Literature analyzer
- Report generator

Potential Integration with YNE reviewer agent

🧐 Agent Identity

- Reviews scientific aspect of incoming dealflow and identified promising research
- Talks with Dealflow agent

🧠 Available Data

- CerebrumDAO deal criteria & thesis
- Past human Senior Review meeting minutes
- Human Senior Review methodology

Problems / Needs



Neuroscience Research
Knowledge Graph Curation
Senior Review

Dealfow

Product Sourcing
Drug Development

Agent 4: Dealflow

🎯 Goals

- Automate the matching and evaluation of incoming opportunities against thesis, mission and past deals
- Shorten due diligence time.

🤖 Sub Agents

- Deal thesis evaluator
- Business & market analyzer
- Team due diligence researcher
- Email communicator (Optional)
- Report Generator

Can get inspiration from [No Cap's](#) AI Angel Investor Agent

🧐 Agent Identity

- Assists in identifying, evaluating, and reporting new research or IP deals.
- Talks with Senior Review agent

🧠 Available Data

- Cerebrum portfolio documents
- Cerebrum mission & vision
- Past deal decisions, meeting minutes and rationale

Problems / Needs



Neuroscience Research
Knowledge Graph Curation

Senior Review

Dealflow

Product Sourcing

Drug Development

Agent 5: Product Sourcing

🎯 Goals

- Assist in identifying and sourcing products that align with the DAO's strategic objectives.
- Establish reliable partnerships with suppliers and distributors.
- Provide insights into market trends, supplier reliability, and product performance.

🧐 Agent Identity

- Automates the search and evaluation of potential products, their suppliers, and partnership opportunities.

🤖 Sub Agents

- Web searcher
- Supplier evaluator
- Product & market performance analyzer
- Proposal creator
- Outreach email drafter

🧠 Available Data

- List of currently identified suppliers
- CerebrumDAO product sourcing criteria
- Selected companies decision rationale

Problems / Needs



Neuroscience Research
Knowledge Graph Curation
Senior Review
Dealflow
Product Sourcing
Drug Development

Agent 6: Drug Development

🎯 Goals

- Search and evaluate potential drug targets
- Identify research collaboration opportunities
- Compound targeting
- Perform literature & data review

🤖 Sub Agents

- Literature researcher
- Genetic studies analyzer
- Drug target evaluator
- Collaboration outreach assistant
- Compound identifier

🧐 Agent Identity

- Automates neurodegenerative drug target discovery using literature, genetics, and biomarkers.

🧠 Available Data

- Compound databases
- Collaborators & partners information
- CerebrumDAO mission & vision & research focus