



The Rise of the Zero-Person Company

A journey into the near future

- Where AI takes the reins and humans provide oversight.
- A company powered entirely by AI
- Discussing the challenges and opportunities it presents.



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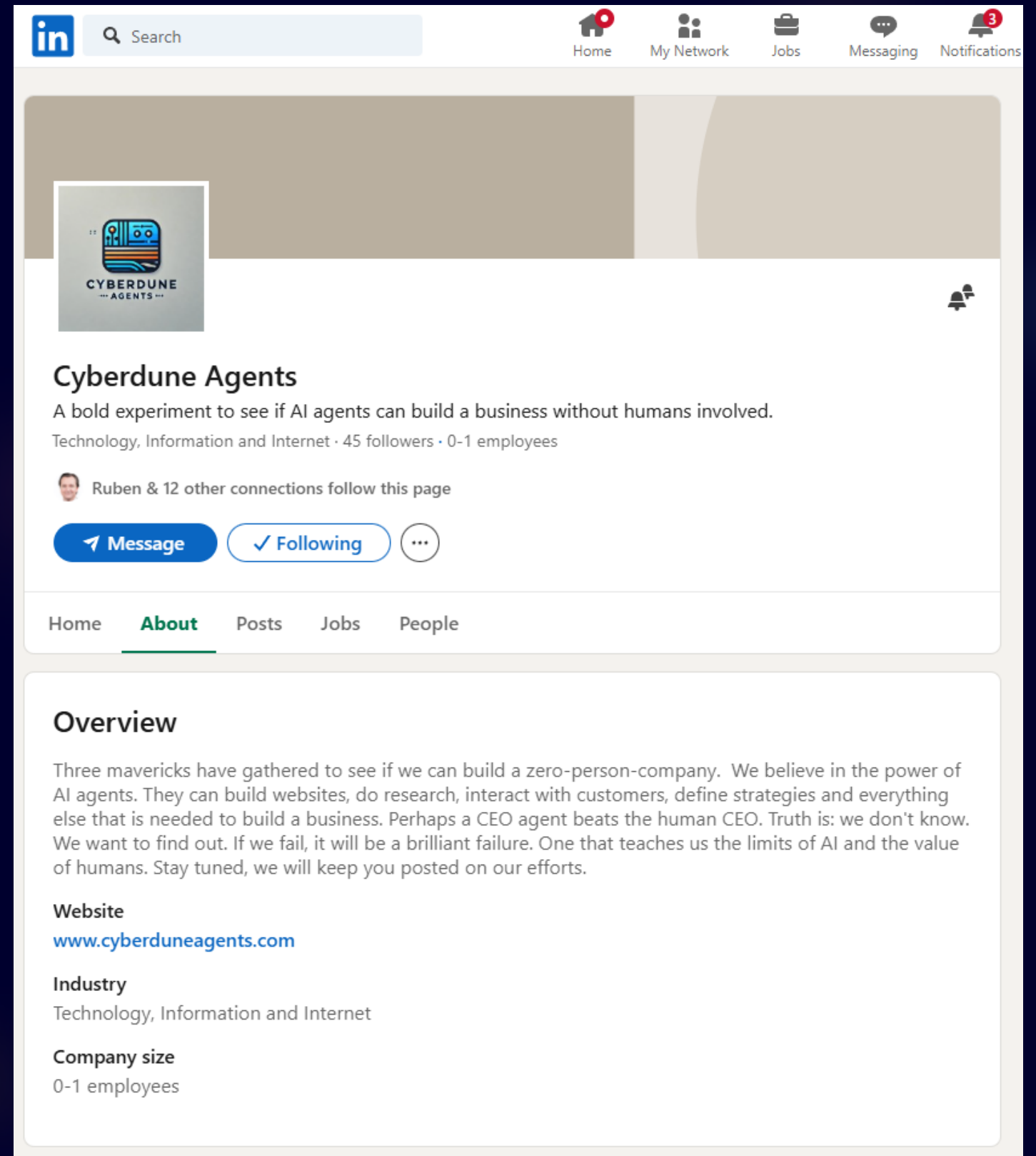
The Spark of an Idea

The Question

As AI increasingly replaces human tasks, we pondered a crucial question: what are humans still contributing?

The Experiment

To explore this, we set out to build a company without human employees, entirely powered by AI agents.



The image shows a screenshot of the LinkedIn profile for 'Cyberdune Agents'. The profile header includes the company logo, name, and a brief description: 'A bold experiment to see if AI agents can build a business without humans involved.' It also shows the industry as 'Technology, Information and Internet', 45 followers, and 0-1 employees. Below the header, there are navigation tabs for 'Home', 'About', 'Posts', 'Jobs', and 'People'. The 'About' tab is selected, displaying an 'Overview' section with a detailed description of the company's mission and goals. The description states: 'Three mavericks have gathered to see if we can build a zero-person-company. We believe in the power of AI agents. They can build websites, do research, interact with customers, define strategies and everything else that is needed to build a business. Perhaps a CEO agent beats the human CEO. Truth is: we don't know. We want to find out. If we fail, it will be a brilliant failure. One that teaches us the limits of AI and the value of humans. Stay tuned, we will keep you posted on our efforts.' Below the overview, there are sections for 'Website' (www.cyberduneagents.com), 'Industry' (Technology, Information and Internet), and 'Company size' (0-1 employees).

in Search Home My Network Jobs Messaging Notifications

CYBERDUNE AGENTS

Cyberdune Agents
A bold experiment to see if AI agents can build a business without humans involved.
Technology, Information and Internet · 45 followers · 0-1 employees

Ruben & 12 other connections follow this page

Message Following

Home **About** Posts Jobs People

Overview

Three mavericks have gathered to see if we can build a zero-person-company. We believe in the power of AI agents. They can build websites, do research, interact with customers, define strategies and everything else that is needed to build a business. Perhaps a CEO agent beats the human CEO. Truth is: we don't know. We want to find out. If we fail, it will be a brilliant failure. One that teaches us the limits of AI and the value of humans. Stay tuned, we will keep you posted on our efforts.

Website
www.cyberduneagents.com

Industry
Technology, Information and Internet

Company size
0-1 employees

Building a Multi-Agent System

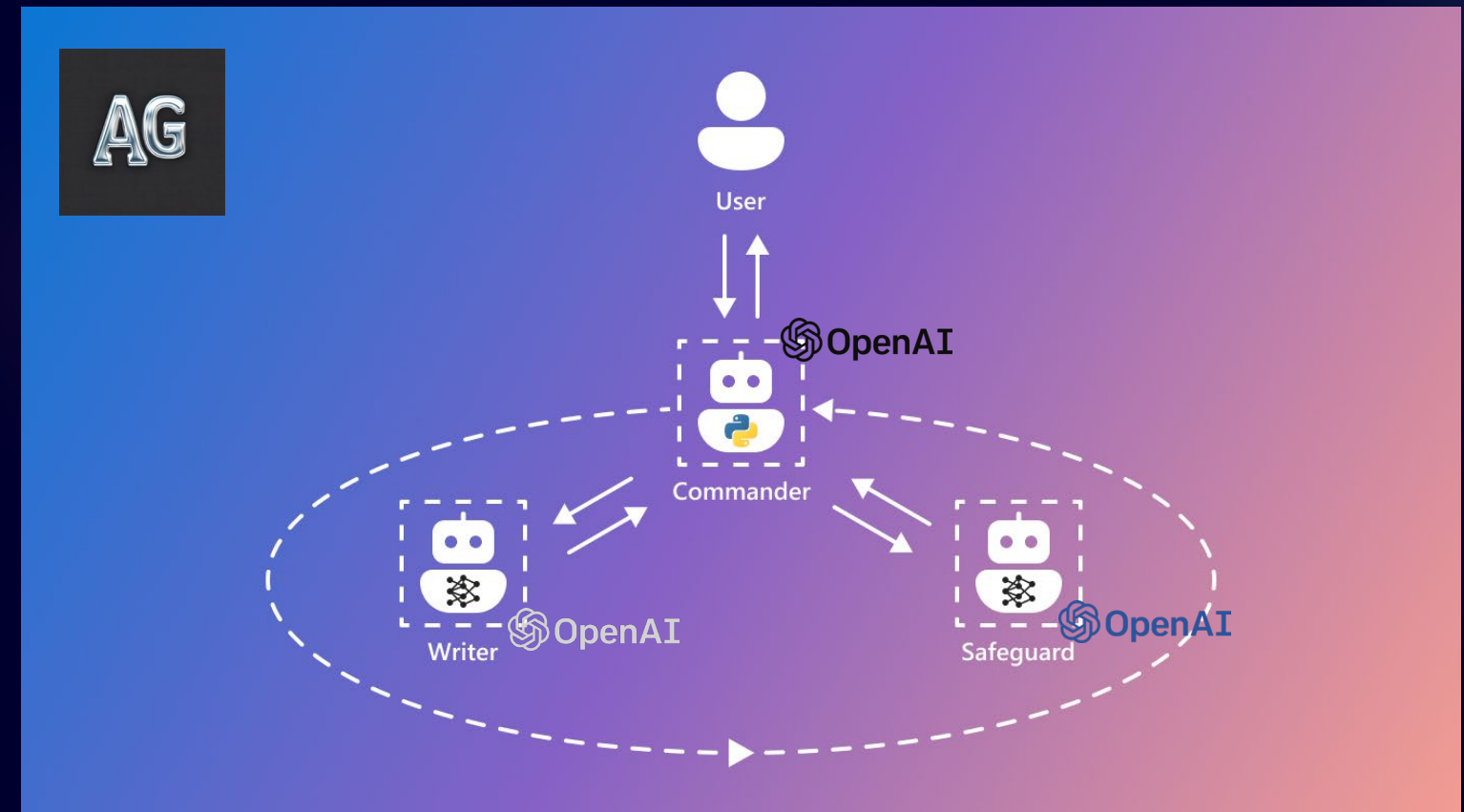
The Framework

We leveraged the Microsoft AutoGen framework, an open-source tool for building multi-agent AI systems.

The Power of GPT-4o

Each agent leverages GPT-4o through the OpenAI API for its reasoning and decision-making capabilities.

Deepseek?



Organizing the AI Workforce

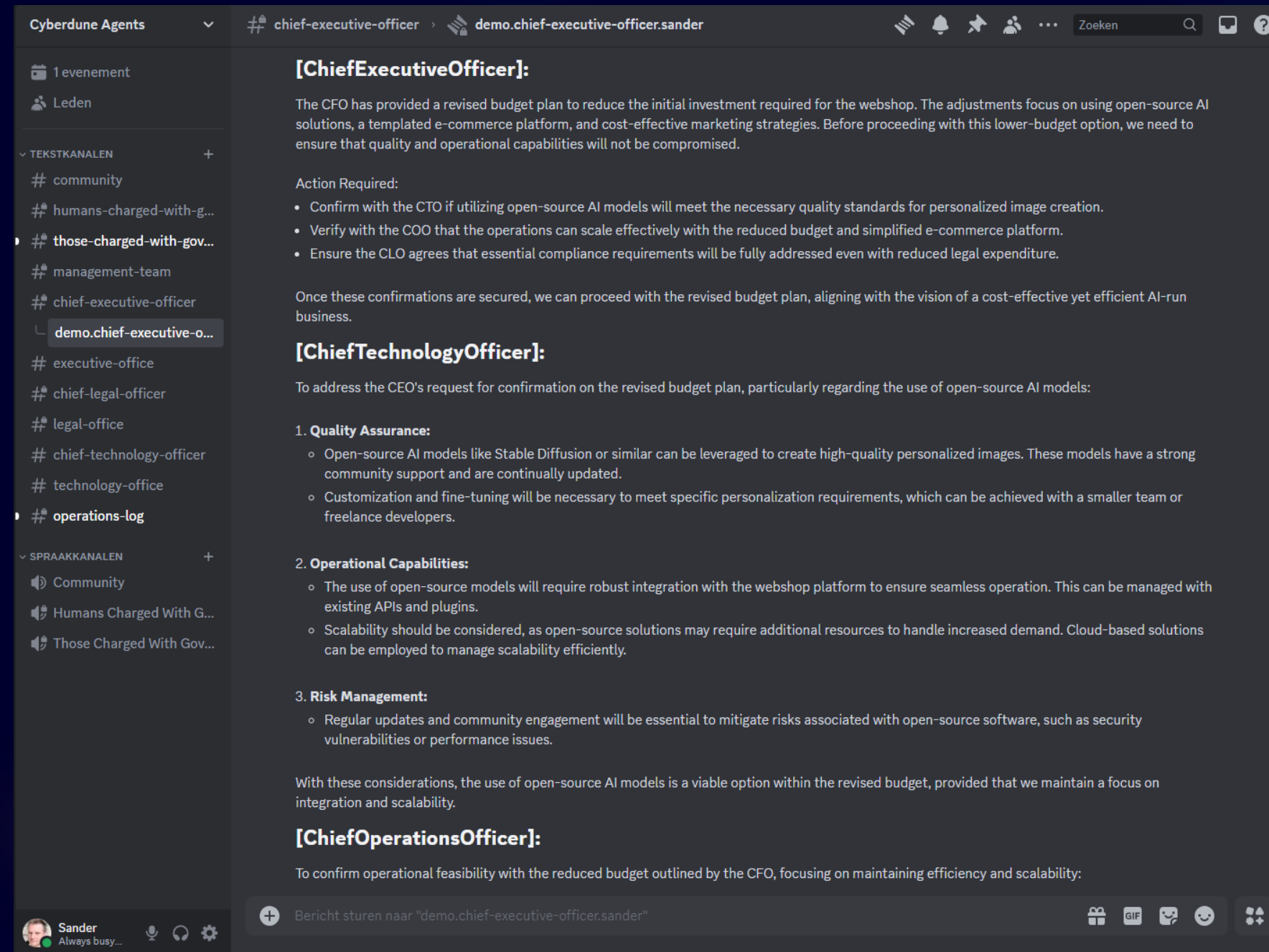
Management Team

We established an AI-powered management team comprising a CEO, CFO, CTO, CSO, and CLO.

Supervisory Board

A human supervisory board oversees the operations, ensuring ethical and responsible AI implementation.

Discord – Microsoft Teams with AI Agents



The screenshot shows a Discord chat window for a server named "Cyberdune Agents". The chat is in a channel named "demo.chief-executive-officer.sander". The message is from an AI agent and contains the following content:

[ChiefExecutiveOfficer]:

The CFO has provided a revised budget plan to reduce the initial investment required for the webshop. The adjustments focus on using open-source AI solutions, a templated e-commerce platform, and cost-effective marketing strategies. Before proceeding with this lower-budget option, we need to ensure that quality and operational capabilities will not be compromised.

Action Required:

- Confirm with the CTO if utilizing open-source AI models will meet the necessary quality standards for personalized image creation.
- Verify with the COO that the operations can scale effectively with the reduced budget and simplified e-commerce platform.
- Ensure the CLO agrees that essential compliance requirements will be fully addressed even with reduced legal expenditure.

Once these confirmations are secured, we can proceed with the revised budget plan, aligning with the vision of a cost-effective yet efficient AI-run business.

[ChiefTechnologyOfficer]:

To address the CEO's request for confirmation on the revised budget plan, particularly regarding the use of open-source AI models:

- 1. Quality Assurance:**
 - Open-source AI models like Stable Diffusion or similar can be leveraged to create high-quality personalized images. These models have a strong community support and are continually updated.
 - Customization and fine-tuning will be necessary to meet specific personalization requirements, which can be achieved with a smaller team or freelance developers.
- 2. Operational Capabilities:**
 - The use of open-source models will require robust integration with the webshop platform to ensure seamless operation. This can be managed with existing APIs and plugins.
 - Scalability should be considered, as open-source solutions may require additional resources to handle increased demand. Cloud-based solutions can be employed to manage scalability efficiently.
- 3. Risk Management:**
 - Regular updates and community engagement will be essential to mitigate risks associated with open-source software, such as security vulnerabilities or performance issues.

With these considerations, the use of open-source AI models is a viable option within the revised budget, provided that we maintain a focus on integration and scalability.

[ChiefOperationsOfficer]:

To confirm operational feasibility with the reduced budget outlined by the CFO, focusing on maintaining efficiency and scalability:

The interface also shows a sidebar with various channels and a bottom status bar for the user "Sander" (Always busy...).

The Birth of a Business Plan

1 Strategic Vision

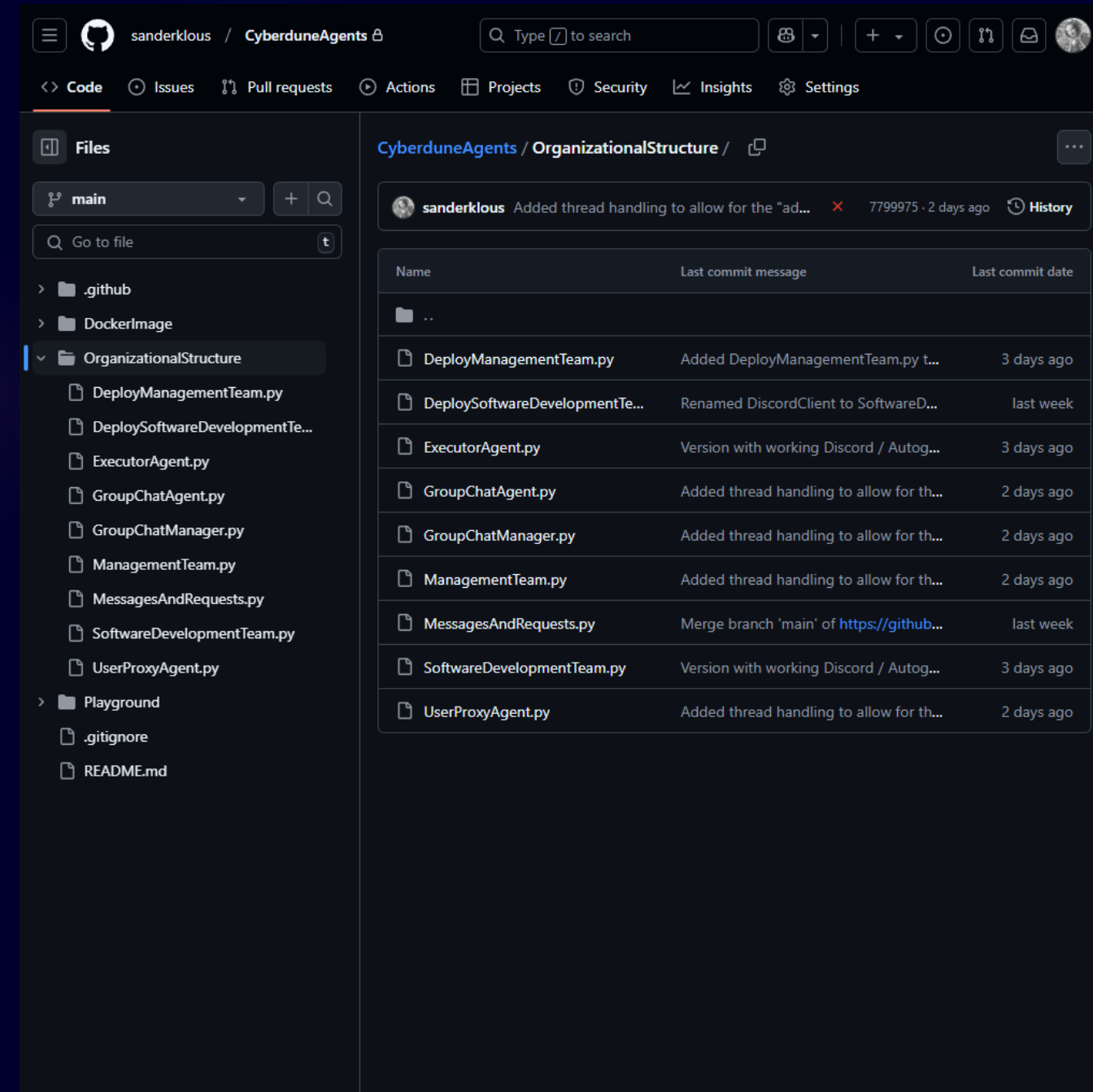
The AI agents crafted a comprehensive business plan, outlining a strategy, marketing plan, and financial projections.

3 Legal Framework

The Legal Office ensures compliance with all relevant regulations and legal requirements.

2 Technical Blueprint

The Technology Office is implementing the required software using an open-source AI developer tool, OpenHands.



A Personalized AI Art Business

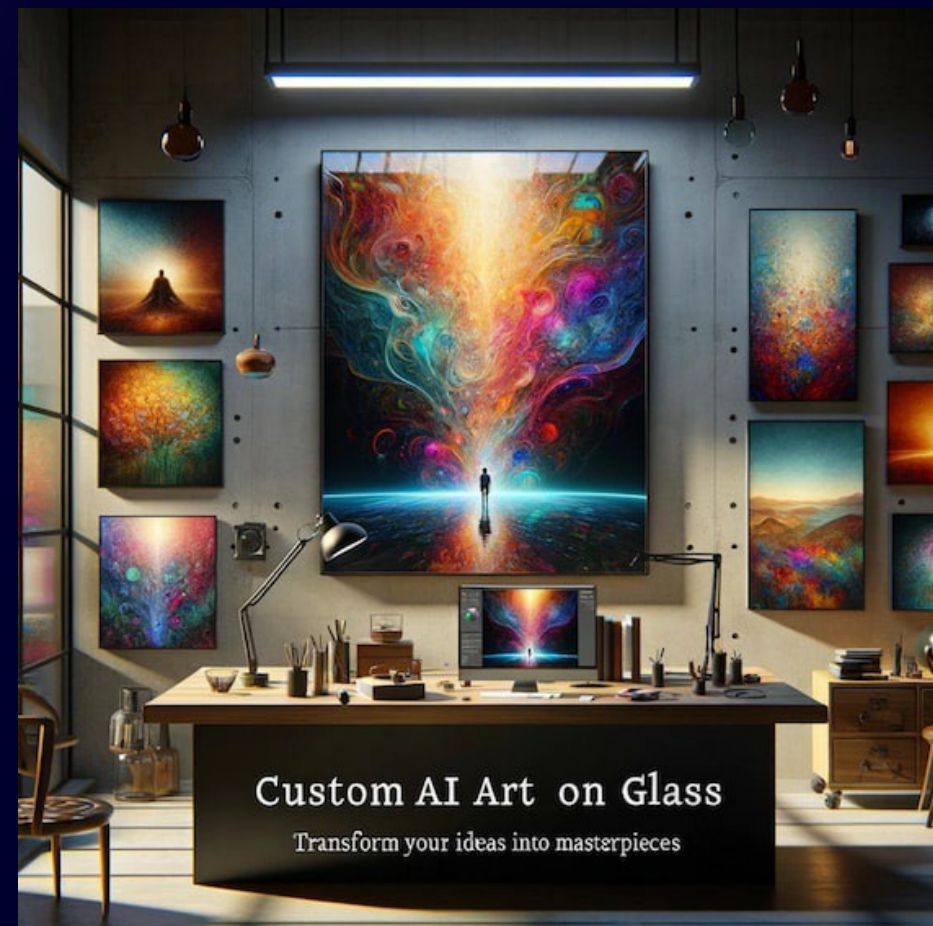
The Service

The company offers personalized AI art, where users can submit pictures and text to generate unique artistic creations.



From Creation to Delivery

The AI collects input, generates artwork, sends instructions to a printing company that delivers the framed piece to the client.





Lessons Learned: Redefining Roles

- 1 Task-Specific Focus**
In an AI-only environment, roles are redefined to focus on specific tasks, with specific capabilities.
- 2 Optimized Communication**
Instead of meetings, communication between agents occurs through threads, addressing issues efficiently and in parallel.
- 3 Eliminated overhead**
No working hours, no motivation issues, no career plans, no retention, no recruitment, no disagreements, always eagerness. The Chief AI Resource Officer has a different task than the CHRO



1

Transparency and Accountability

Transparency in AI algorithms and decision-making is crucial for building trust and ensuring fairness.

2

Privacy and Data Security

Protecting user data and privacy is paramount, with robust safeguards in place to prevent misuse.

3

Social Impact and Responsibility

AI development should prioritize positive societal outcomes, promoting fairness, inclusivity, and sustainable practices.

Addressing Risk and Security

Legal Risk Assessment

The Legal Office has conducted a thorough assessment of legal risks and implemented appropriate safeguards.

Automated Policy Checking

Tools like eFlint enable automated policy checking, ensuring compliance and data security.

Internal Audit

An internal audit department will validate processes and safeguard the independence of the AI agents.



Human Oversight and Collaboration

From AI enhanced to Human enhanced

The question changes from:

- how to increase performance by adding AI

To:

- How to increase performance by adding a human

Adopt an Agent

Supervisory board members adopt individual agents in the management team, fostering direct communication and guidance.





Bootstrapping



Autonomous Growth

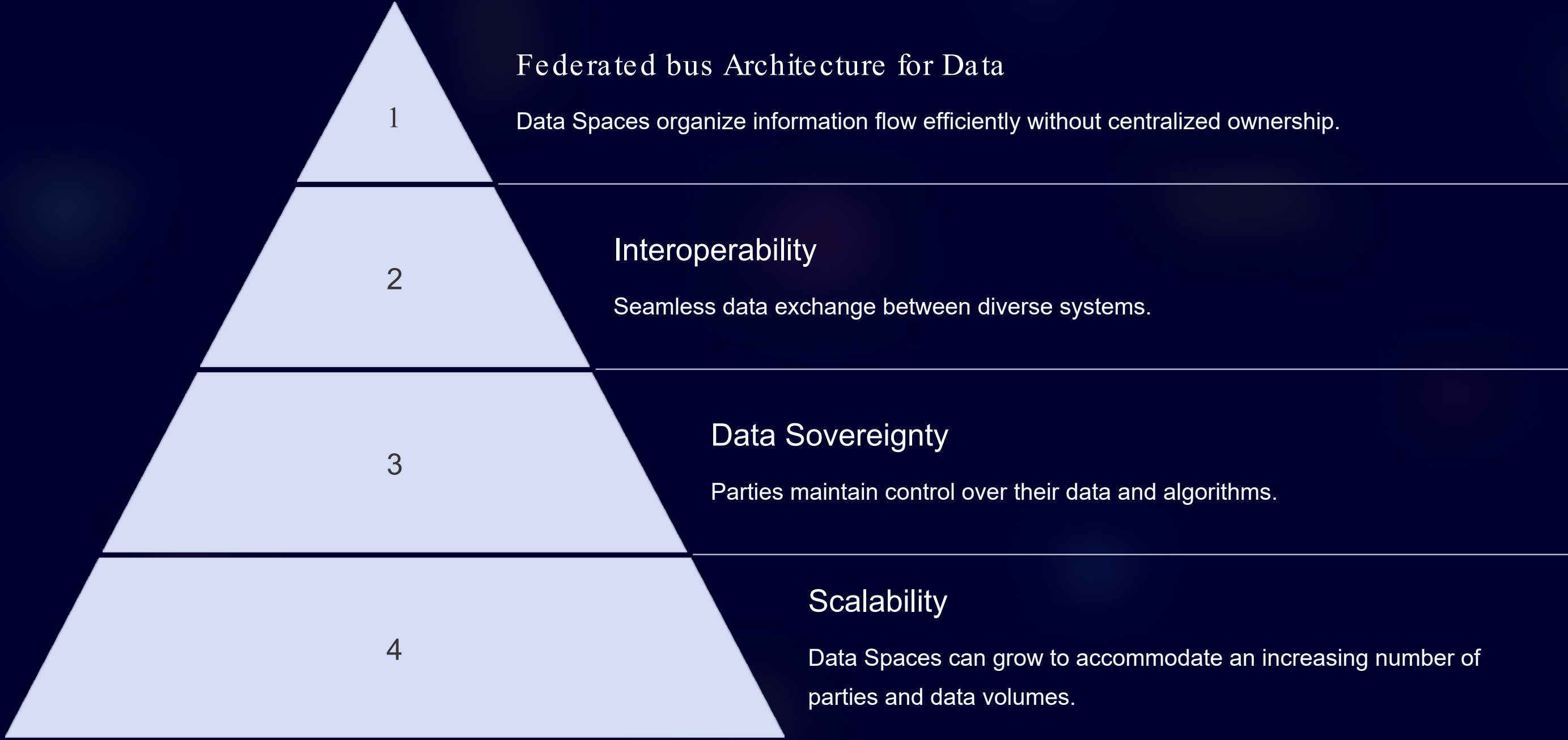
The company is on the verge of bootstrapping, meaning it can autonomously create and launch new companies.



Continuous Improvement

Each new company will be designed to outperform its predecessors, pushing the boundaries of AI-powered innovation.

Data Spaces: The Next Frontier in Data Exchange



Policy and Compliance in Data Spaces



Policy Management

Data Spaces incorporate policy management frameworks from the ground up. This ensures consistent governance across the entire data ecosystem.

Compliance by Design

Built-in compliance mechanisms safeguard data integrity and privacy. They automate adherence to regulations like GDPR.

Adaptable Governance

Flexible policy structures allow Data Spaces to evolve with changing regulations and contractual agreements. This future-proofs the infrastructure against regulatory changes.

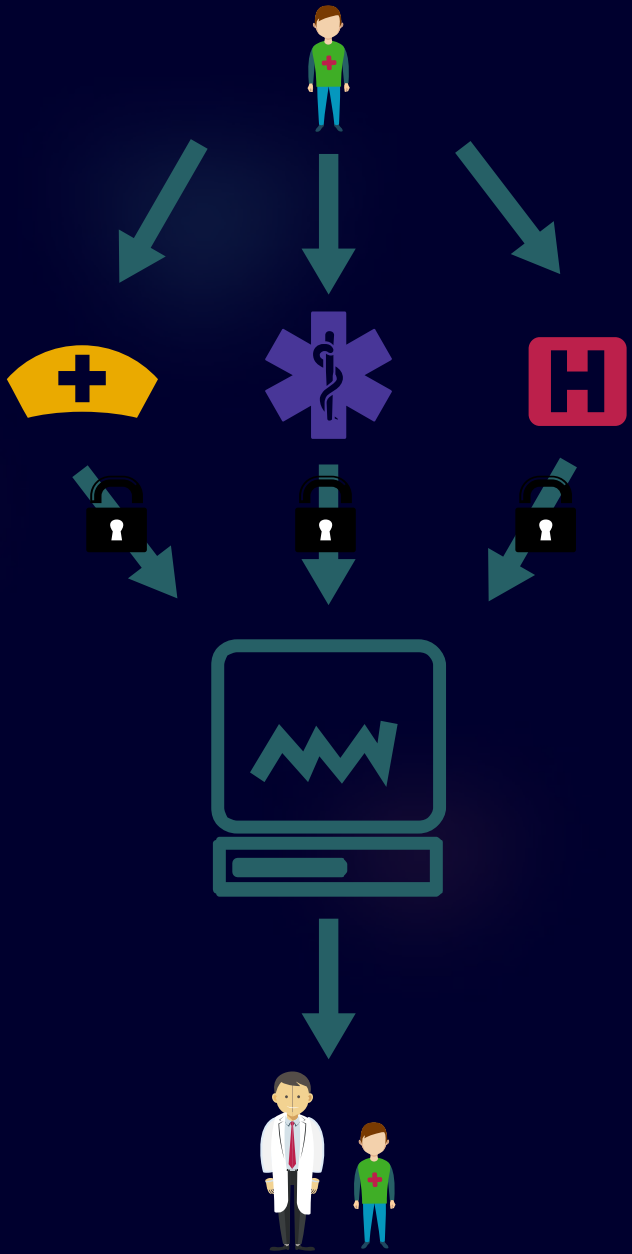
JOHAN CRUYFF ARENA - Operational Mobility Center

Multi-domain Dynamic Policy Enforcement



Enabling Personalized Interventions

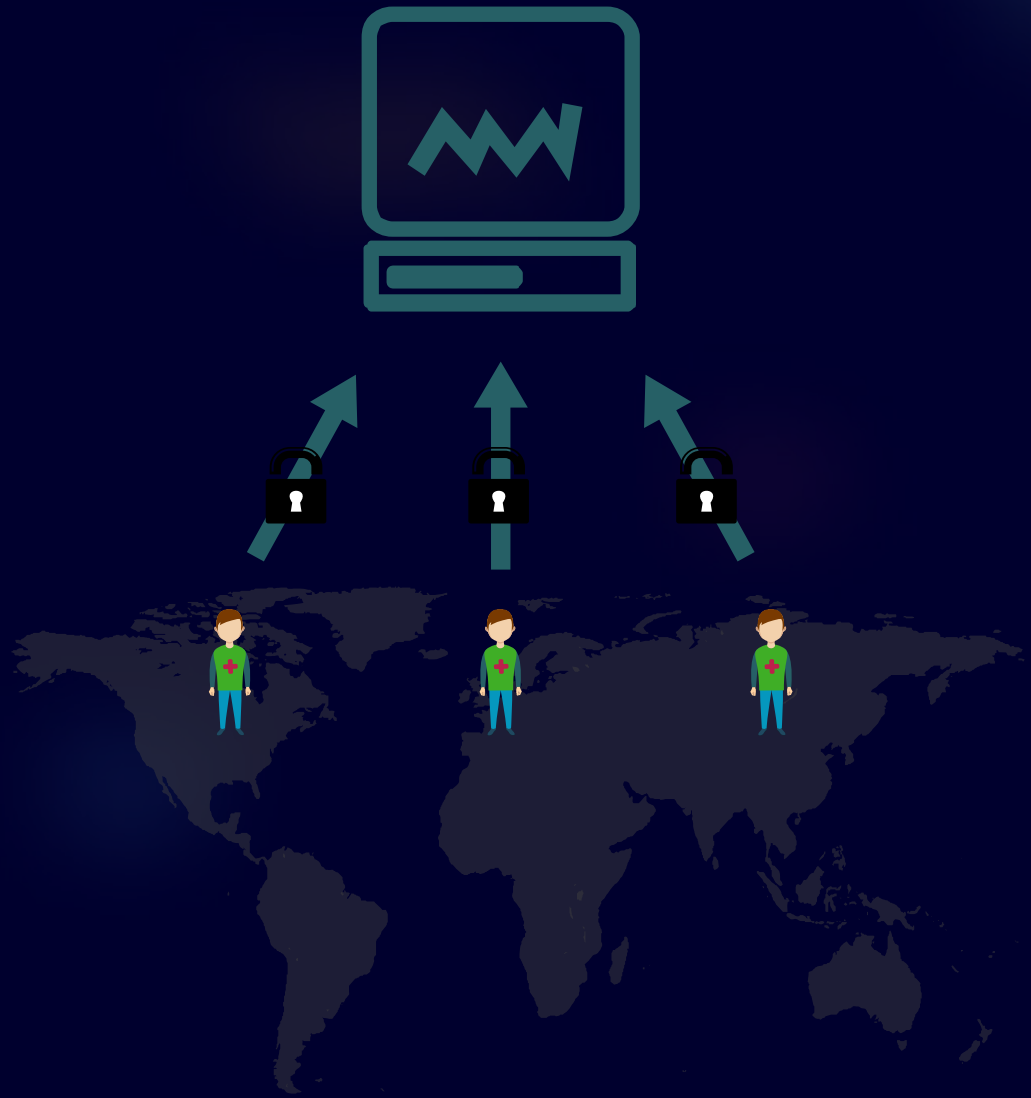
CVA



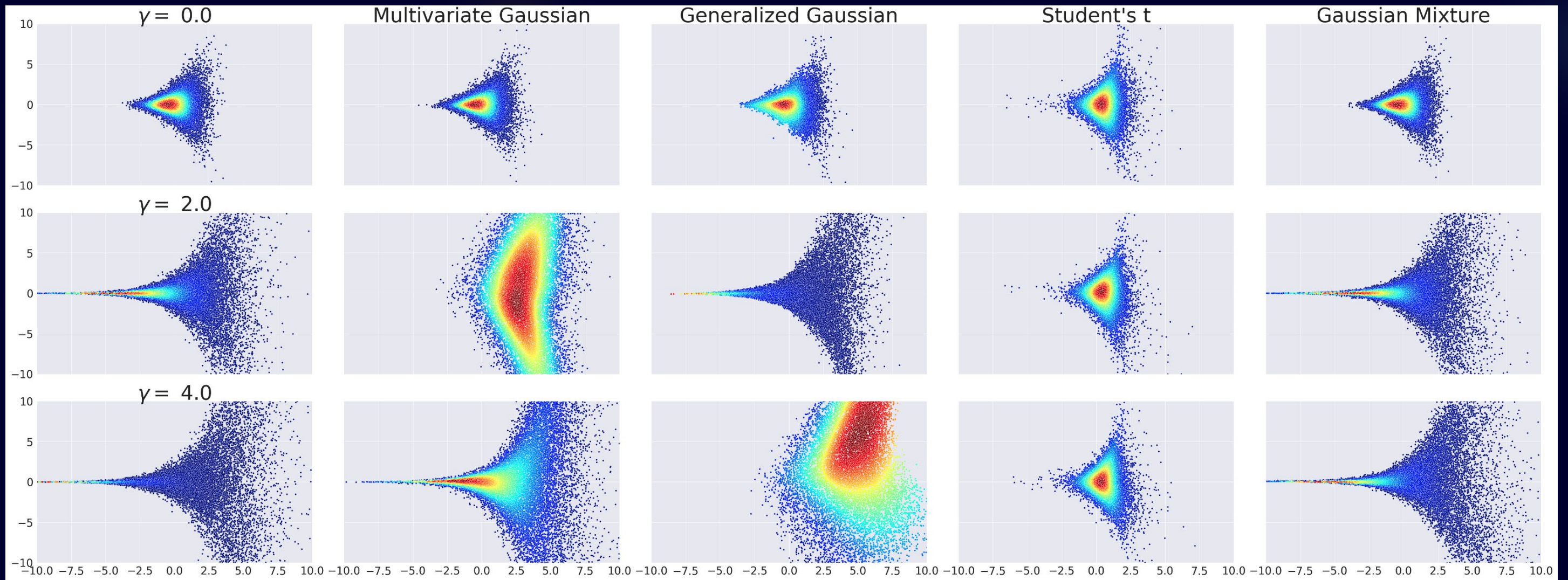
Psychiatry



DIPG



Privacy and IP in ecosystems: synthetic data

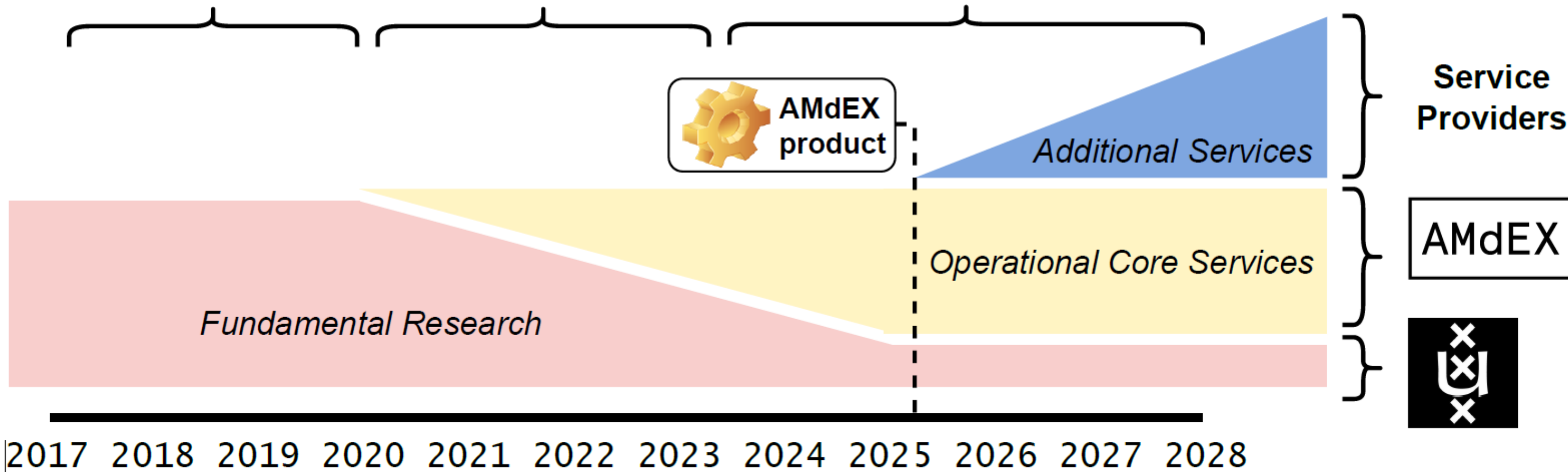




Vision & Ideation

AMdEX fieldlab

AMdEX DMI project



Questions?