



# Web3 Innovation

**Collective Intelligence and the Vogon Decentralized Cloud  
Leveraging Chat GPT as a technical knowledge discovery accelerator for the Decentralized Cloud**

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Executive Leadership

**"We are at the dawn of a new era of Web 3.0 and Innovation, powered by Collective Intelligence, where the power of the collective can be harnessed to create a more equitable, connected, and intelligent future."."**

— Sean Michael Brehm  
Chairman & CEO, CrowdPoint Technologies

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# Information: The fuel of Innovation.

The world today is powered by the fuel of innovation: information.

Information is the fuel of innovation because it helps us develop new ideas and ways of doing things. Sharing innovation is important because it allows us to learn from each other and progress together. Imagine if you had a great new idea, but this is the first time anyone else has ever heard it! That idea would never have a chance to become a real innovation. Sharing our ideas with each other helps us all become more imaginative and come up with better solutions.

Emerging technologies are positioned to create more semantically relevant information from a distributed data store by using natural language processing (NLP) techniques. NLP is a form of artificial Intelligence that can analyze text and extract meaningful information. Using this technology, NLP can generate more accurate information from a distributed data store in a way anyone can understand. For example, NLP could extract the most crucial information from a text document and present it in a way that would be more understandable for any reader. This could help the reader to better understand the data and gain insights from it that could be used to drive innovation.

Today's centralized information approaches need to evolve to be decentralized and prepared to meet the needs of Web 3, sometimes referred to as the Semantic Web, because they need to be more suited to help us become more imaginative and innovative to come up with better solutions.

Today, centralized information approaches use databases, middleware, and API systems to share data in expensive and inefficient ways. Unfortunately, information is not readily available because the data behind it needs to be better defined and is hampered further because it is locked away in centralized databases. Unfortunately, these centralized databases and systems are prone to cyber-attacks to the tune of trillions of dollars.

CrowdPoint's Vogon Decentralized Cloud is a unique and innovative way to meet the demand for Web 3 today because it generates Collective Intelligence.

## Collective Intelligence: Purpose built

Collective Intelligence is the driving force of Web 3. It creates more efficient forms of innovation than individual information because it allows multiple people to brainstorm ideas and develop a better solution than anyone could have come up with. Instead of relying on just one person's ideas and knowledge, Collective Intelligence allows for the expertise and ideas of many people to be combined to create an even better solution. It's like when you have a group project at school – working together, everyone can come up with a better project than anyone could have.

Collective Intelligence is when people combine their skills and knowledge to solve problems. It is needed for Web 3 to be successful because it will allow us to build better websites and online services to help us make better decisions. By having more people working together, we can ensure that our online knowledge is reliable and that our technology is secure.

Collective Intelligence is essential for Web 3 to grow because it goes beyond the concept of information and more efficiently helps people to share ideas and work together to create new and better ways of doing things. It also allows people to learn from each other so that everyone can get better at what they do. According to a report from MarketsandMarkets, the collective intelligence market is expected to reach \$17.72 billion by 2028, growing at a compound annual growth rate of 16.2%.

# Data is the new oil: Information powers the global economy.

The Information powers today's economy because it can be used to make money, and it is becoming increasingly important in the digital age. The way information is stored on a centralized cloud is like having one giant filing cabinet in a room. Everyone who needs to access the data has to go to the same place to open the same filing cabinet. This is not very efficient because if many people need to access the same data to create information, the filing cabinet can get very crowded, and it takes time for everyone to get what they need.

Web 3 is like having lots of filing cabinets all over the place. Instead of everyone having to go to the same place, now everyone can go to their own filing cabinet and get the data they need. This makes it much easier and faster for everyone to get the data they need because it's not all stored in one place.

Data is the new oil because it has the potential to be valuable, just like oil. Data has to be refined to make it useful information.

The world operates today using databases on centralized systems to store data. What is data for one person can be information for another. That is why companies create databases to store data to generate information from the data they own or provide it to others in exchange for their data or a fee. A database is like a digital filing cabinet containing business information. It helps a business keep track of important information like customer information, sales records, and inventory. By having this information organized and easily accessible, a business can make better decisions, save time and money, and better compete in today's global climate.

Companies create databases to store data to generate information from the data they hold or provide it to others to make information. For example, a business can use the data from its database to analyze it to create information. That is why companies make databases to generate information from the data they own or provide data to others for them to produce information.

What is data to one person in their database may only be data for them, but it can be information for another. Information is data that has been refined to help companies identify customer trends, better predict customer needs, and develop strategies to stay ahead of the competition. Information is precious because it gives us the knowledge to make decisions, learn new things, and succeed.

The world operates today using databases to store data. The problem is that databases could be more efficient ways to create information for various reasons. What is data for one person can be more valuable as information for another.

- First, they are centralized. Centralized systems limit the amount of information that can be shared, meaning that it's only possible to get one perspective on a particular topic. Data silos are assemblies isolated from other sources, meaning it's difficult to get a complete picture of a situation. Expensive API integration means that accessing data from other sources can be costly, making it difficult to get a comprehensive view of a topic. Databases are designed to store data from a single person or organization's semantic view. Because it is centralized, this creates a stovepipe of potential information that requires people to find relevance.
- Second, they create limited information. Centralized systems are focused more on hoarding and storing data and building expensive solutions to generate knowledge. They use this to compete in the market or sell their information to others to help them compete.
- Third, databases are becoming increasingly risky because of cybercrime. Like oil, data can be stolen, and cybercrime is a way for criminals to make money by stealing data to create information. Unfortunately, since information is so valuable, people try to steal it. Cyber threats mean a risk of malicious actors gaining access to sensitive data, which can lead to privacy issues and breaches.

Cybercrime is so high because criminals know that information is the fuel for the global economy and is valuable. Cybercriminals know that they can make money by stealing it. It is also easy because data can be stolen remotely without the victim knowing.

Cybercrime is when criminals use computers, the internet, and other digital technologies to steal money or data, spread malicious software, or even cause physical damage. The cost of cybercrime today is very high because criminals can use the internet to target thousands of people at once and cause much damage.

- For example, a hacker could steal credit card numbers from hundreds of people in a single attack. Businesses and individuals must spend a lot of money to protect their data and recover from the attack.
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- It also means that criminals can make a lot of money quickly, encouraging them to keep committing cybercrimes.

According to the 2019 Norton Cyber Security Insights Report, cybercrime costs businesses an estimated \$2.2 trillion globally in 2018, \$6 trillion. The World Economic Forum estimated that the cost of cybercrime was \$8 trillion in 2022.

These 3 factors, among others, make it difficult for the vision behind Web3 to grow, as it is hard to access the data needed to make informed decisions



# Vogon: Making Web3 a reality.

For Web 3 to become a reality, the world must transition to a more efficient sharing of data and information. It is time for the rise of a decentralized cloud powered by a decentralized database and ledger capability that allows everyone to contribute based on their ability and to get what they need. It's like having a team of experts working together to get the job done instead of just relying on one person's knowledge. That way, we can all work together to create a Collective Intelligence that helps us succeed.

Collective Intelligence is when a group comes together to share their knowledge, ideas, and experiences to solve problems. This can help reduce costs, improve profits, and expand financial inclusion by allowing everyone to access the necessary resources. For example, suppose a 16-year-old wants to start a business. In that case, they can use Collective Intelligence to get advice and support from other people who have started businesses before. This can help them save money on resources they may have yet to learn about and avoid making mistakes. Collective Intelligence can also help expand financial inclusion by making it easier for people to access resources and information they wouldn't usually have access to. This can help people make better financial decisions and save money in the long run.

A decentralized cloud is a type of cloud computing that stores and processes data across a network of computers instead of relying on a single centralized server. This means that data is shared and stored across multiple computers, which makes it more secure and resilient. It also means that the data is not owned by any person or organization, making it less vulnerable to cyber-attacks. Decentralized cloud computing is the future because it offers more security and reliability than traditional cloud computing.

## The Backbone of Web3

As the backbone of Web 3, the Vogon Decentralized Cloud reduces the cost of manual monitoring and enforcement and eliminates any duplication of effort. Its use of microservices and APIs working in concert with a polyglot Virtual Machine that powers a decentralized cloud makes computing significantly more efficient by allowing different types of programming languages (polyglot) to communicate and work together seamlessly (interoperability).

## Shattering compatibility issues

Users can access services and applications from multiple sources without worrying about compatibility issues between existing user experiences (UX/UI) or databases deployed. This makes using computing services faster, smoother, and more efficient for everyone, no matter their technical or programming knowledge.

## Distributed Document Store Database

A distributed document store database is designed to store and manage large amounts of documents distributed across numerous locations. This type of database is valuable because it allows for efficiently storing large amounts of data in an easy-to-read format. When a decentralized cloud includes a shared global database composed of a distributed document store, it makes for a solid foundation to generate Collective Intelligence that is shared across multiple computers among businesses and individuals.

A decentralized cloud with an embedded distributed document store using a digital rights management strategy would create orders of magnitude that are more efficient and profitable for companies. This combination makes it desirable because it would streamline the tracking, verifying, and enforcing of digital rights.

## Digital Rights through Compaction Technology

The decentralized cloud would also create a single source of truth for all digital rights, allowing businesses to identify any potential infringements quickly and accurately. Additionally, it would provide a platform for companies to collaborate and share best practices, allowing them to quickly identify and address any potential issues. Finally, its use of compaction technology not only ensure digital rights by storing data securely and requires permission-based access it creates a level playing field for all businesses, allowing them to compete more equally.

Compaction technology shrinks, secures, and speeds up data transmission. The process significantly reduces the data size of a file and includes built-in ultralight security, thus reducing the size of files stored in a decentralized database. It does this by taking a large file (like a JSON file), shrinking it, and securing it into a smaller size. This technique helps reduce the amount of space the file takes up, making it easier to store and transfer between database nodes. Compaction helps speed up the sending and receiving of data, making it faster to use. Compaction technology is instrumental in decentralized databases, as it only allows the user to access information if they have the code book.

## Decentralized Ledger

Combining a decentralized ledger as part of this decentralized cloud approach is essential because it ensures a digital record of all the transactions that have taken place between two or more people. This record is shared among all the people involved in the transaction and is not stored in a single location. This makes it difficult for anyone to tamper with or manipulate the data.

A decentralized ledger embedded within a decentralized cloud is essential because it ensures that all the transactions are secure and transparent. This means that if someone tries to change the records, it will be immediately noticed by everyone in the system. This makes it harder for people to commit fraud or other illegal activities. It also makes it easier for companies to track their financials, essential for staying organized and on top of finances.

## A high-performance virtual machine

Vogon A high-performance virtual machine is a crucial component to supporting Web 3. A virtual machine is a computer program that acts like a real computer. It runs its own operating system and can be used to run different kinds of software. This revolutionized cloud computing because it allowed people to use their own computers to access and run applications stored in the decentralized cloud. It made cloud computing more accessible and convenient for everyone, especially for people who don't have the technical skills or resources to set up their own servers.

A VM for Web 3 must be able to run programs written in different languages like Java, JavaScript, and Python. A company needs to use this kind of VM because it helps make their applications run faster, saving them time and money. It also makes it easier for developers to write code that can be used on multiple platforms, which can help a company save money on development costs. Finally, a VM can help a company improve the security of its applications by providing better protection against malicious code.

## An embedded metadata tagging solution

Using a metadata tagging system, technology can work with a distributed document store to provide context for each record. This system would allow users to assign tags to each record, providing additional information about the record and its context. For example, tags could include the author's name, the date the document was created, the document's category, or the document's purpose. This additional information would allow users to quickly and easily search and find the documents they need.

## Fusion: A new kind of decentralized cloud

Merging all these capabilities into a decentralized cloud enables technologies like chat GPT to surface Collective Intelligence faster without much development time for a company. With a distributed document store database, data is stored in multiple locations making the analytic results more secure than traditional databases because it is spread across various locations, making them difficult to access or compromise. This is because it allows storage of the JSON files in a compacted state, ensuring that the data is secure, easily accessed, and understood by those with digital rights to allow Chat GPT to surface Collective Intelligence in a way that is accessible to users of all ages.

# Vogon and Chat GPT: Accelerating Discovery

GPT stands for Generative Pre-trained Transformer. It is a type of artificial intelligence that can take some text as an input and generate new text that is related to it. For example, if you give GPT access to JSON texts within a decentralized document store for dog breeds, it will generate new text about dogs, like a description of what the breeds looks like, what they likes to do, and what kind of personality each breed has. GPT works by taking in a lot of text that has already been written and using that to help it figure out how to generate new text. It looks at the words and phrases that are used in the text and tries to figure out how to use them to create something new.

The Chat GPT API is a RESTful API is connected to the Vogon Decentralized Cloud. It allows developers to integrate natural language processing into their applications through the JSON store in the decentralized cloud containing a database stored in cubes with a ledger. Transactions are paid in crwdunits based on the number of requests you make per month, with different tiers available for different usage levels.

Integration with Chat GPT enables context for each JSON housed in the cube-based distributed document store by analyzing the contents of the JSON files and then using natural language processing (NLP) to generate a summary of the group of records. This summary can then provide context for each document in the store. For example, anyone can now analyze the JSON files' contents and generate a summary that explains the key points and relationships between the records. This summary can then provide context for each record in the store, allowing users to quickly understand the contents of the documents and the relationships between them.

Collective Intelligence now becomes readily available as people and organizations can build interfaces connected to the JSON-distributed document store using natural language processing (NLP) to analyze the data stored in the tables. Specifically, they can use techniques like text mining, semantic analysis, and natural language querying to extract meaningful insights from the data. Additionally, sentiment analysis helps identify topics in the text, determine sentiment around those topics, and generate insights into how people feel about various products, services, and issues. Combining these methods with machine learning algorithms, Collective Intelligence can help provide valuable insights into the data stored in the Vogon Decentralized Cloud.



## Banks, Vogon and Chat GPT: Enhanced Services

For Example, CrowdPoint's Banking partners can benefit from a GPT (Generative Pre-trained Transformer) technology connected to its Vogon Decentralized Cloud in various ways. First, the integration provides an efficient and cost-effective way to handle customer service issues without additional human resources. Through natural language processing, customers can ask questions and receive automated responses tailored to their queries, eliminating potential wait times, and ensuring a more engaging customer experience.

# Chat GPT



## References:

Listed below are the references sourced to substantiate assertions in this document..

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