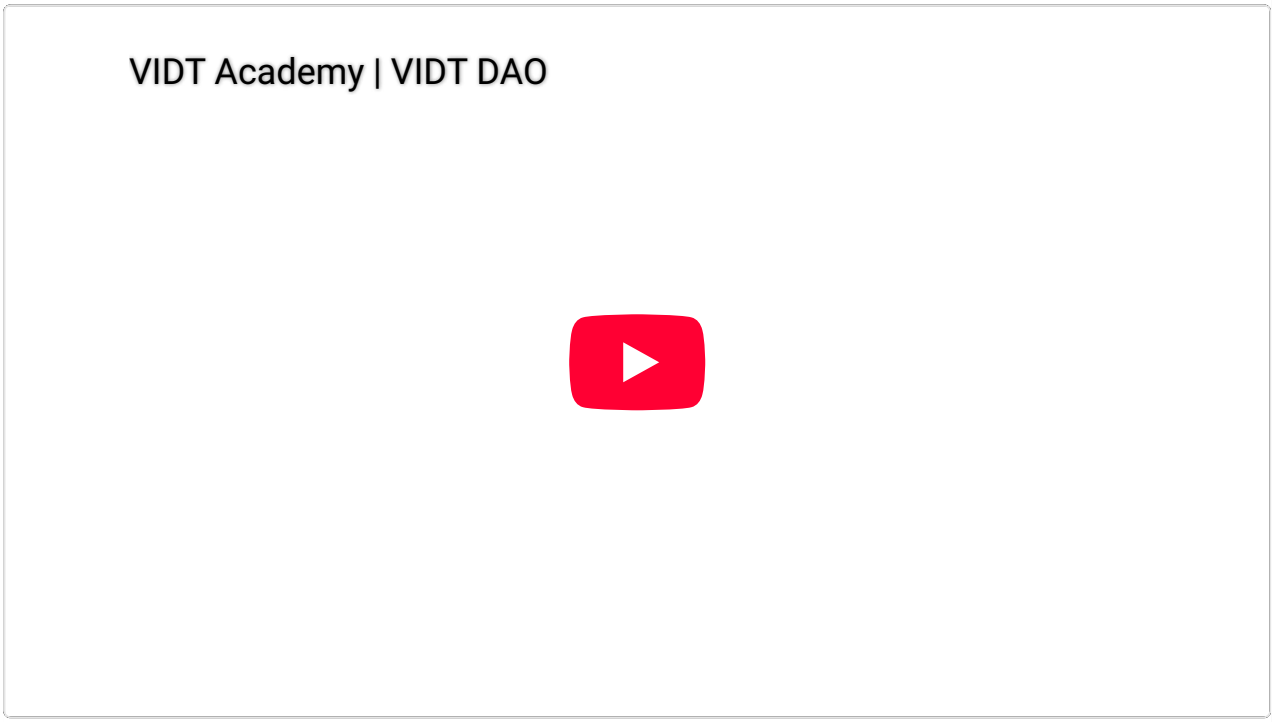
# English

# Welcome to VIDT Academy

Welcome to the VIDT Academy, the community's personal 'Do Your Own Research' platform!




## Let's get started

Are you keen to understand how the VIDT DAO is structured? Or perhaps you're ready to explore its key timestamping technology that verifies the authenticity of documents in a time where AI-generated fakes are prevalent. Or maybe you're excited to understand how this technology is applied by a list of diverse integrators.

No matter your interest, you'll be able to educate yourself by selecting your topic of interest on the left.

And remember, this isn't just a one-way information hub - it's a dialogue. If there's a topic you're curious about or something you'd love to see covered, please reach out through the Google Form below. As we move forward and the ecosystem expands, we'll make sure to update the academy accordingly.

We're always excited to expand the academy based on your suggestions, and we truly appreciate your feedback.

## Feedback

We would love to hear your feedback and thoughts. Do you have new exciting topics that need to be added to this academy? Fill out this form.

# VIDT DAO Ecosystem

# The Ecosystem

Where everything comes together.

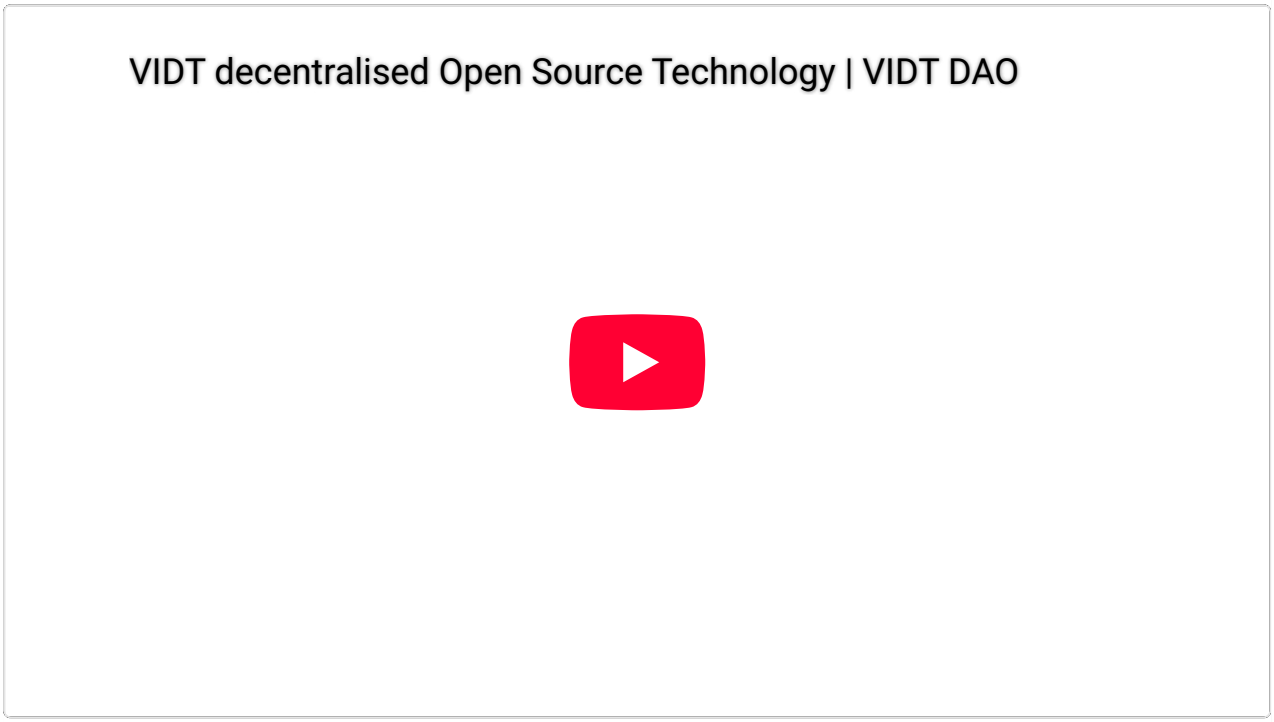

The VIDT DAO Ecosystem

The ecosystem consists of several different aspects. Currently, the biggest pillars of the ecosystem are:

- VIDT DAO
- The Smart Contract
- The integrators
- The Community
- VIDT Academy
- The $VIDT Token

# VIDT DAO

Discover the essence of the VIDT DAO.




## What's VIDT DAO?

The VIDT DAO is an open-source platform that provides a foundation of verifiable trust. It leverages blockchain and timestamping technology to ensure the veracity of data and documents. The native token of the platform is VIDT, which is integral to the data validation process. Each time a file is timestamped, a VIDT transaction is executed, recording all necessary details into the blockchain.

VIDT also plays a crucial role in the governance of the platform, empowering token holders to propose and vote on strategic decisions concerning business, marketing, and technical developments. Each wallet holding a certain amount of VIDT has one vote, thereby democratizing the decision-making process.

## How's VIDT DAO structured?

Several key components work in unison within the VIDT DAO ecosystem. The Incubator Treasury is a tool that allows the community to influence the strategic and commercial path of VIDT DAO. The Audit Committee is in place to perform sanity checks on submitted DAO proposals to ensure compliance with regulations. Finally, the Awareness Team, composed of volunteers, disseminates news about VIDT to foster community engagement.

As of January 2025, the total token supply of VIDT is 1,000,000,000, with a circulating supply of 842,320,913 VIDT, representing approximately 84% of the total supply.

# The $VIDT Token

More than just an altcoin.

Get your $VIDT Utility tokens on Binance, KuCoin or Coinmerce (EU Only).

The VIDT token, native to the VIDT DAO, plays a critical role in an open-source platform that enables verifiable trust. Using open-source blockchain and timestamping technology, data and documents can be made verifiable.

VIDT tokens can be traded on centralized crypto exchanges. Binance is the most popular platform for buying and trading VIDT DAO. Another popular option for trading VIDT is KuCoin.

For those using MetaMask, VIDT DAO (VIDT) can be added to view token holdings, trade on decentralized exchanges, and more.

## Token purpose

One of the key use cases of the VIDT token is in data validation. Whenever a file is timestamped, a VIDT transaction is recorded, which captures all necessary details into several blockchains. The token is thus an integral part of the VIDT DAO validation process, making it possible for any Web3 developer, user, or wallet to use the VIDT DAO timestamp functionality to certify and verify documents.

# Binance Tag

$VIDT has recently been awarded the Layer 1 / Layer 2 tag on Binance, meaning that the project has demonstrated its value within the blockchain ecosystem. In other words, it has shown that it is capable of either supporting the base layer of a blockchain network (Layer 1) or enhancing its functionality and performance through a secondary protocol or framework (Layer 2).

In the case of VIDT, receiving this tag suggests that Binance recognizes the token's role in both these layers, indicating the project's contribution to the blockchain ecosystem. Here's how that might translate to trust and importance.

Find out more about $VIDT on Binance Research.

# The Smart Contract

How does it all work?

Smart contracts are basically programs stored and run on a blockchain that activate when specific conditions are fulfilled. They are commonly used to automate certain agreements, enabling all parties involved to immediately understand the result, without the need for an intermediary's participation or any time delay. This is especially useful for transactions that have measureable conditions, and specific outputs. Once a transaction is complete, the transactions are trackable and irreversible.

Smart contracts can also be used to store specific data. This essentially the fundament of the VIDT DAO timestamping technology; the document fingerprint is stored in the VIDT DAO smart contract.

> Did you know that for every timestamp that is performed in the smart contract, one VIDT token is used.

# The source code

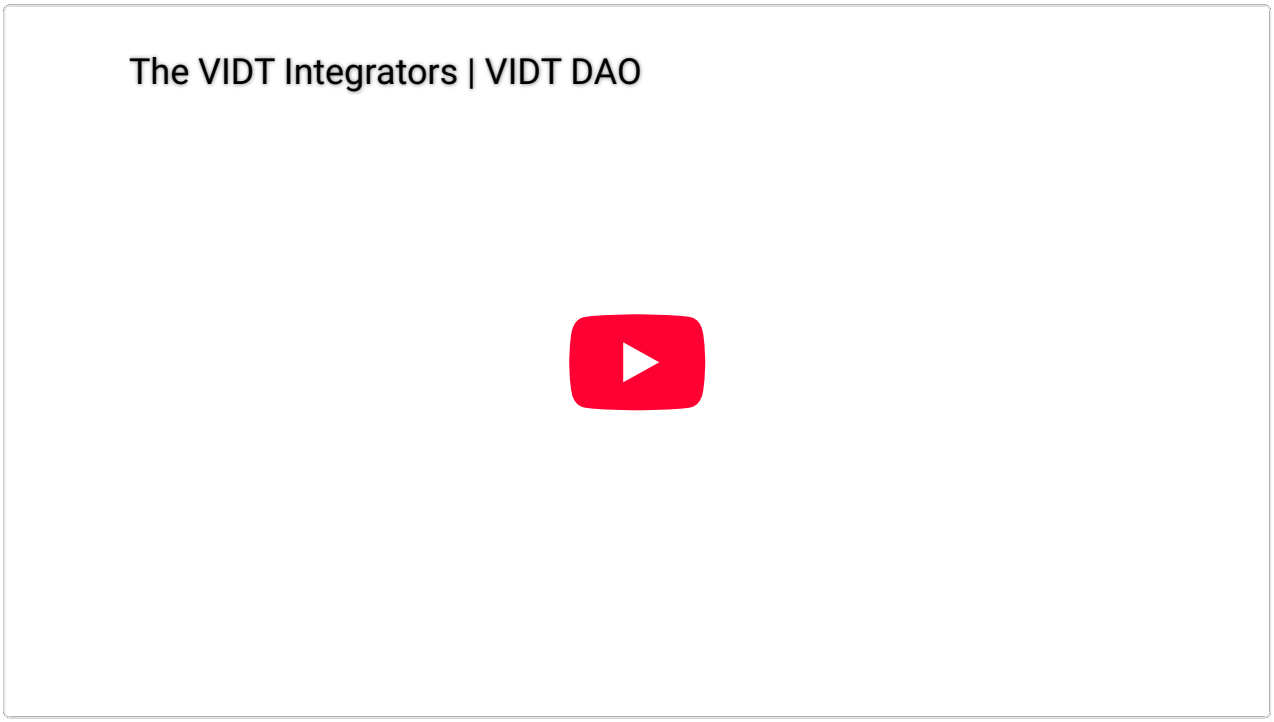
The code for the smart-contract can be be on GitHub. It is open-source so that everybody can integrate the technology into any existing or future systems. You can find the smart-contract on the blockchain here (Ethereum) and here (Binance Smart Chain).

GitHub - VIDT-DAO/smart-contracts: All VIDT DAO smart contracts for ERC20 and BEP20, including the swap contracts for legacy tokens

GitHub

# Integrators

Companies, individuals, or tools that have incorporated VIDT DAO timestamping technology into their systems.




Explore our Integrators: How is VIDT's Timestamping Technology Applied.

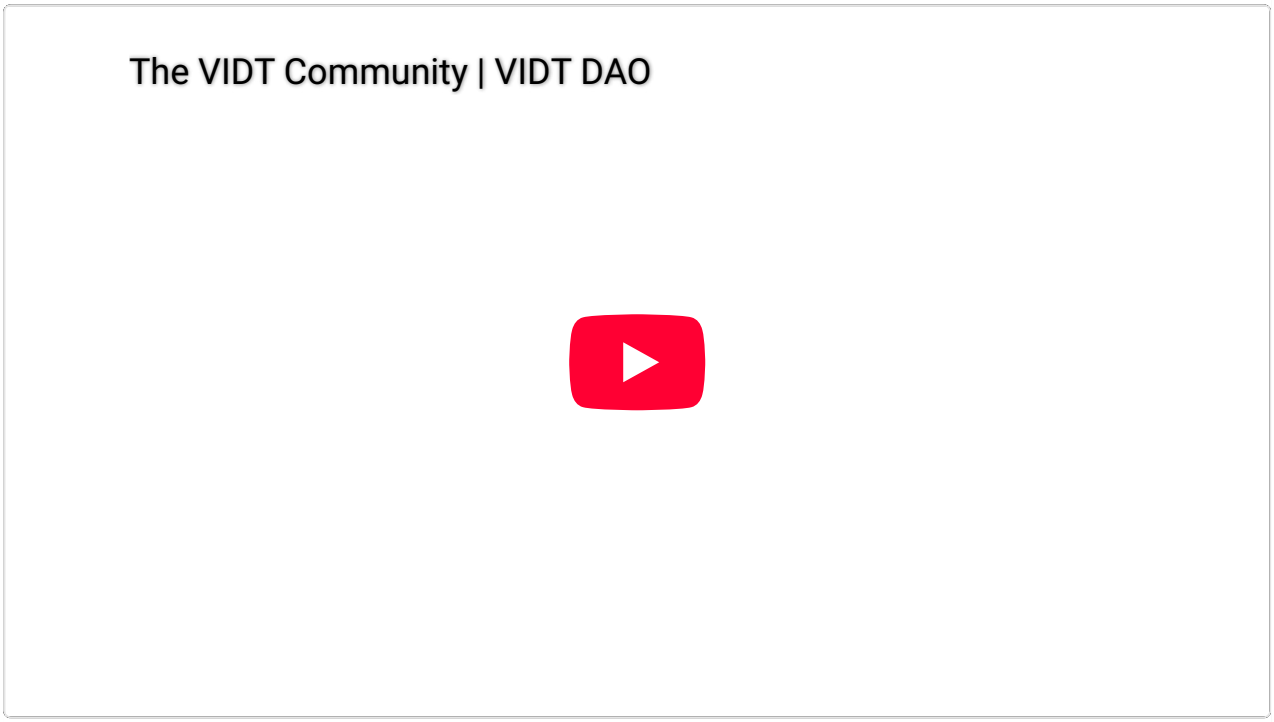
Given VIDT's history, several major integrators have been utilizing the VIDT DAO smart contract for multiple years. Notable examples include AmSpec, VerifyAllDocuments, and Procentec. Additionally, many smaller but equally intriguing integrators, such as 11-fifteen, also exist.

New integrators continue to emerge within the ecosystem, with the latest being FileValidator. This tool aims to enable anyone holding VIDT tokens to timestamp their tokens easily.

Explore how VIDT DAO timestamping technology was used by various Integrators into their businesses.

# VIDT DAO Community

VIDT wouldn't exist without it's loyal communitymembers.




There are numerous Telegram channels, Twitter accounts, and other platforms within the community. Some of the most prominent Twitter accounts include the VIDT DAO Awareness Team, VIDT DAO Community, and VIDT DAOWL.

## VIDT DAO Awareness Team

The VIDT DAO Awareness Team (@VIDT_DAO), composed of volunteers who are enthusiasts of the VIDT DAO Technology, was established years ago by the Awareness Board with the goal of introducing more use cases to the ecosystem. This team, however, does not have any say in the strategic or technical developments of VIDT DAO.

As the VIDT technology transitioned to being open-source and its governance shifted to a DAO, the Awareness Team broadened its focus. Today, they also work tirelessly to share impartial information about the ecosystem's developments and news about VIDT to engage the community. This includes various activities such as launching the VIDT Academy, a free platform

designed to provide comprehensive knowledge about VIDT DAO, and promoting the importance of data integrity in the digital world, emphasizing how VIDT technology can be a reliable solution.

## VIDT Community Twitter Channel


The VIDT Community Twitter Channel (@VIDT_Community) was created by enthusiasts to support the ecosystem's growth under its DAO structure. This Twitter channel serves as a hub for discussions and conversations among community members. It provides updates, hosts discussions, and promotes VIDT DAO-related news and events.

Meanwhile, VIDT DAOWL emerged as a mascot for the VIDT DAO ecosystem and is described as an AI-Evangelist with a sweet spot for crypto, Elon Musk, and birds.

Explore a list of VIDT Community socials here.

# VIDT Academy

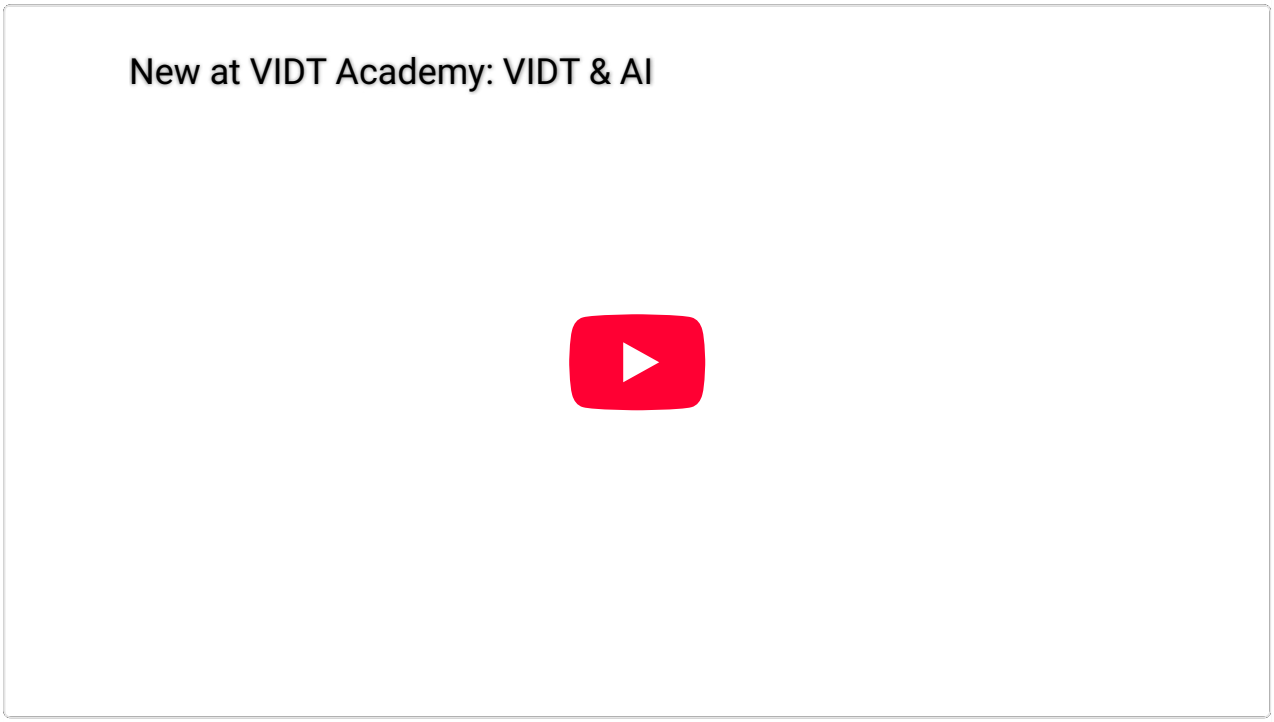
You're here now!


The VIDT Academy is a 'Do Your Own Research' platform created for the community around VIDT. It's designed to be a hub of learning where users, whether new or seasoned, can delve deeper into the realm of VIDT. The Academy provides information about the structure of VIDT DAO, its key timestamping technology that verifies the authenticity of documents, and how this technology is applied by a list of diverse integrators.

The platform is designed to cater to a variety of interests, allowing users to select their topics of interest and self-educate. Importantly, the VIDT Academy is not just a one-way information hub - it's intended to be a dialogue. Users can provide feedback and suggest topics through a Google Form, which the team uses to expand and update the academy accordingly.

# AI & VIDT (new!)

VIDT and AI: Unlocking the Future of Web3




Welcome to the latest expansion of VIDT Academy, where we are thrilled to introduce four groundbreaking chapters dedicated to the intersection of VIDT and Artificial Intelligence (AI). As the world rapidly evolves with advancements in AI and blockchain technologies, VIDT DAO is at the forefront, integrating these innovations to enhance the reliability and security of blockchain timestamping.

**Why AI and VIDT?**

Artificial Intelligence is revolutionizing various sectors, and its integration with blockchain technology is opening up new horizons in the web3 space. VIDT DAO is pioneering this convergence, developing tools and platforms that leverage AI to provide verifiable truth and secure data interactions. By understanding and utilizing these technologies, you can significantly enhance your impact in the digital landscape.

**What You Will Learn**

Our new AI module, developed in collaboration with the renowned AI experts at Connecting Knowledge, aims to equip you with a deep understanding of AI's role within the VIDT DAO ecosystem. The module consists of four comprehensive chapters, each designed to take you from the fundamentals to advanced applications:

Chapter 1: Introduction to AI

Chapter 2: Data Security and AI

Chapter 3: Blockchain and AI

Chapter 4: Compliance and AI

Let's get started by selecting one of our new chapters. As always, we are more than open for feedback and suggestions!

The VIDT Community

# Introduction to AI

AI & VIDT DAO - Navigating the Future Together

## Introduction to AI in the VIDT DAO Ecosystem

AI Basics & The AI-Validator Introduction: We're starting off with the ABCs of AI, including machine learning and deep learning, and how VIDT DAO is stepping up its game with the AI-Validator. This tool isn't just another tech gimmick; it's here to revolutionize the way we timestamp and verify facts, making sure that AI tools like GPT don't just tell us what they think we want to hear.

Welcome to the dawn of a new era in the VIDT DAO ecosystem, where Artificial Intelligence (AI) is not just a buzzword but a foundational element reshaping the future of data validation and security. As we embark on this journey together, let's unravel the mysteries of AI, from its core principles to its advanced applications, and introduce an innovative tool that stands at the forefront of this revolution: AI-Validator.

## Understanding the ABCs of AI

Artificial Intelligence, in its essence, is the simulation of human intelligence processes by machines, especially computer systems. These processes include learning (the acquisition of information and rules for using the information), reasoning (using rules to reach approximate or definite conclusions), and self-correction. The field of AI encompasses machine

learning and deep learning, which are pivotal in enabling machines to learn from data, identify patterns, and make decisions with minimal human intervention.

Machine Learning (ML) is an application of AI that provides systems the ability to automatically learn and improve from experience without being explicitly programmed. It focuses on the development of computer programs that can access data and use it to learn for themselves.

Deep Learning, a subset of ML, involves neural networks with many layers. These neural networks attempt to simulate the behavior of the human brain—albeit a very, very simplified model—allowing the machine to learn from large amounts of data. Deep learning drives many of the most advanced AI applications, including voice recognition systems, image recognition, and even self-driving cars.

## Stepping Up with AI-Validator

In the midst of the AI boom, VIDT DAO introduces AI-Validator, a cutting-edge tool designed not just to ride the wave of technological innovation but to redefine it. The AI-Validator leverages the power of AI to timestamp and verify facts, ensuring the integrity and reliability of data. But why is this important?

In a world increasingly dependent on digital information, the authenticity of data has never been more crucial. Traditional data verification methods often fall short in the face of sophisticated cyber threats and the sheer volume of data. Enter AI-Validator, which employs advanced algorithms to analyze, validate, and timestamp data, creating an immutable record that stands the test of time.

This tool is particularly significant in the context of generative AI tools, like GPT. While these tools can produce content that is remarkably human-like, they rely heavily on the data fed to them. AI-Validator ensures that this data is accurate and reliable, preventing the spread of misinformation and enhancing the credibility of AI-generated content.

AI-Validator: Where AI meets truth

## The Road Ahead

As we move forward, the integration of AI within the VIDT DAO ecosystem promises not just enhanced security and reliability but a transformation in how we manage and validate data. AI-Validator is just the beginning. By embracing these technologies, VIDT DAO is not just keeping pace with the AI revolution but is actively shaping its direction, ensuring a future where data is not only secure but also trustworthy.

Stay tuned as we delve deeper into how VIDT DAO is enhancing data security and validation through AI in our next chapter. Together, we're not just witnessing the future; we're building it.

# Data Security & AI

Reinforcing Data Security with AI

Data is the lifeblood of the digital economy, driving decisions and innovations across every sector. But as our reliance on data grows, so too does the importance of robust data protection. This chapter examines how Artificial Intelligence (AI), particularly through Machine Learning (ML), plays a crucial role in fortifying data security within the VIDT DAO ecosystem.

**The Imperative of Data Security**

In the digital age, data breaches can jeopardize not just individual privacy but also the very integrity of businesses and institutions. The protection of data is therefore not just a technical necessity but a fundamental aspect of digital trust. Data security entails safeguarding digital information from unauthorized access, corruption, or theft throughout its entire lifecycle.

**Machine Learning: Beyond Analysis**

Machine learning is redefining the scope of what's possible in data security. Unlike traditional software, ML algorithms can learn from data, identify trends, and anticipate threats, thereby transforming raw data into actionable insights. Within the VIDT DAO framework, ML is the powerhouse that propels intelligent, automated data analysis and decision-making. It's an indispensable tool for identifying potential security threats and ensuring that data—whether it be

personal information, transactional records, or sensitive documents—remains uncompromised.

**AI's Role in Data Integrity**

The role of AI in data security is multidimensional. It encompasses the detection of unusual patterns that could signal a cyber threat, the authentication of digital identities to prevent fraud, and the validation of the integrity of data through rigorous analysis. AI technologies can adapt and evolve with the threat landscape, unlike static, rule-based systems that become outdated almost as soon as they are created.

In the context of VIDT DAO, AI isn't just about technology; it's about a strategic approach to data integrity. AI-driven tools like the AI Validator provide a more nuanced, intelligent way to verify data. By analyzing the data's authenticity and ensuring its integrity, AI acts as a custodian of trust in the ecosystem.

**Bridging the Gap**

Integrating AI and ML into data security practices signifies a paradigm shift from reactive to proactive defense mechanisms. It's a transition from waiting for alerts to anticipating and mitigating risks preemptively. VIDT DAO's use of AI

in data security illustrates how these advanced technologies are integrated into the very fabric of digital interactions, enhancing trust and reliability.

As we venture further into an interconnected world, understanding the role of AI in data security becomes critical. It's essential to educate stakeholders on the value of AI in protecting data, the mechanisms it employs, and the benefits it brings to the table. In doing so, we can foster a more informed and secure digital environment.

In the following chapters, we will continue to explore the intersection of AI, blockchain technology, and data security, shedding light on how these technologies collectively work to secure the digital landscapes of the future.

# Blockchain & AI

VIDT DAO's Dynamic Duo

Welcome to the heart of innovation within the VIDT DAO ecosystem, where Artificial Intelligence (AI) and blockchain technology merge to create a formidable partnership. This section explores the symbiotic relationship between these technologies, showcasing how they collectively forge groundbreaking solutions that are crucial for the digital era.

**Better Together: AI & Blockchain**

Within VIDT DAO, the collaboration of AI and blockchain is akin to the classic combinations in history, where the sum is greater than its parts. AI contributes its extraordinary capabilities in processing and analyzing vast datasets, learning from trends, and making predictive decisions. Blockchain brings its strengths in providing a secure, transparent, and immutable ledger, ensuring the integrity and verifiability of data and transactions.

Together, these technologies transcend their individual applications, creating a sophisticated ecosystem of solutions. This partnership enhances data validation, security, and efficiency—previously unreachable—ushering in smarter, more secure, and reliable systems.

**VIDT DAO's Cutting-Edge Combo**

At the forefront of technological integration, VIDT DAO exemplifies how to effectively combine AI and blockchain. This goes beyond the superficial use of buzzwords to a profound implementation that genuinely enhances operational efficiency and solution development.

A prime example of this integration is how VIDT DAO employs AI to analyze and authenticate data before securely logging it on the blockchain. This approach not only safeguards the data's authenticity and integrity but also streamlines the validation process. Additionally, blockchain-driven smart contracts automate various operations, from data validation to agreement execution, all while maintaining unparalleled security and transparency.

**Bridging Tomorrow**

The alliance of AI and blockchain in VIDT DAO represents more than just a technological advance; it is a model for the future. As we continue to push the boundaries of possibility, the combination of these technologies will undoubtedly be central in shaping our digital landscape.

The potential is vast—from enhancing cybersecurity to enabling more transparent and equitable business practices. By championing this integration, VIDT DAO is not only positioning itself as a leader in the tech space but is also paving the way for a more secure, efficient, and trustworthy digital future.

Stay tuned for the next chapter, where we delve into the ethical considerations and compliance challenges at the intersection of AI, blockchain, and data validation within the VIDT DAO ecosystem. As we navigate this digital frontier, understanding the ethical and legal ramifications becomes essential to ensuring that innovation continues to benefit society at large.

# Compliance & AI

Ethical AI and Compliance in the Realm of VIDT DAO

In the rapidly evolving fields of Artificial Intelligence (AI) and Blockchain, technological advancement must be accompanied by ethical considerations and adherence to regulatory frameworks. This article delves into the importance of ethical AI and compliance within the VIDT DAO ecosystem.

**The Ethics of AI: Doing It Right**

At the core of VIDT DAO's mission is a dedication to ethical AI. This entails more than just enhancing machine intelligence—it involves ensuring that advancements are made responsibly and ethically. But what does this mean in practice?

For VIDT DAO, ethical AI involves several key principles:

- Transparency: Ensuring that AI algorithms and data handling processes are transparent, fostering accountability and trust.
- Privacy and Data Protection: Upholding rigorous standards of privacy, handling personal data with care, and ensuring ethical and legal usage.
- Fairness and Non-Discrimination: Guaranteeing that AI systems do not perpetuate bias or discrimination, actively working to eliminate biases in algorithms and datasets.

Addressing these ethical considerations requires ongoing vigilance, thorough testing, and a commitment to refining AI systems in response to emerging challenges.

**Navigating the Regulatory Maze**

In addition to ethical concerns, compliance with regulatory standards is paramount in deploying AI and Blockchain technologies. The regulatory landscape governing these technologies is intricate and swiftly evolving, with varied rules and guidelines across jurisdictions.

VIDT DAO adopts a proactive approach to navigating this regulatory environment. Rather than simply adhering to existing regulations, VIDT DAO actively engages in discussions surrounding AI and Blockchain regulation. This approach involves:

1. Staying Ahead of Compliance: Vigilantly monitoring regulatory changes to ensure current operations comply with laws and anticipate future requirements.

2. Engagement and Advocacy: Collaborating with policymakers, regulators, and industry bodies to advocate for balanced regulations that encourage innovation while safeguarding individual rights and privacy.

By assuming a leadership role in regulatory discussions, VIDT DAO aims to contribute to the development of regulations conducive to the ethical use of AI and Blockchain, facilitating the continued evolution of these technologies for societal benefit.

**Commitment to Ethical and Legal Standards**

For VIDT DAO, commitment to ethical AI and regulatory compliance is not merely an external obligation but a reflection of core values. As they progress, ethical AI principles and proactive regulatory engagement will remain central to their strategy, ensuring responsible deployment of technologies aligned with societal interests.

In the forthcoming chapter, we will explore emerging AI trends and how VIDT DAO plans to leverage these advancements while upholding ethical principles and regulatory compliance.

# Timestamping

# Introduction to Blockchain and Timestamping

Begin your journey into the transformative world of blockchain and timestamping.

Don't like reading? Watch Video: Timestamping On The Blockchain

## The Blockchain?

Blockchain is the underpinning technology behind cryptocurrencies such as Bitcoin. But the power of blockchain extends beyond digital currencies. It's a decentralized, digital ledger that records transactions across a network of computers. The decentralization aspect of blockchain ensures that no single entity holds power or control. Instead, it promotes collaboration and transparency, making it an efficient and secure way to track transactions without needing a central authority.

## Timestamping

A timestamp is a crucial digital record that precisely pinpoints the exact moment when a specific event occurred. This could be any number of things,

from a user login request or the creation of a document to the moment a photo was captured.

Timestamping is a fundamental aspect of digital applications, serving as a verifiable trail of when and how these events transpired. This ability to 'go back in time' and reference a timestamp as irrefutable proof of an event's occurrence is a powerful tool in today's increasingly digital world.

Documents, in particular, are subject to multiple timestamping events. This begins with the primary timestamp at the moment of creation and extends to subsequent timestamps marking edits, access by different parties, and even deletion.

## The value of blockchain

Each interaction with the document is faithfully recorded, providing a comprehensive timeline of its history. In essence, timestamps function as the digital world's heartbeat, providing a rhythm and sequence to events and actions.

An essential consideration for timestamps is trustworthiness. Can we rely on a timestamp to be genuine? Did the event truly take place, or was the timestamp falsified? To create a trustworthy record, blockchain technology is employed.

Given its immutability, transparency, and security features, blockchain is ideally suited for recording timestamps. This is exactly why VIDT employs the Ethereum and Binance Smart Chain blockchains for its timestamping use case.

> Explore how VIDT has helped various Integrators implement VIDT timestamping technology into their businesses.

# How does Timestamping work?

Let's break down the general process of timestamping into three easy-to-understand steps.


1. **Creating a Unique Digital Fingerprint**:
   The first step in timestamping is creating a unique digital signature for the item being timestamped. This unique fingerprint, often referred to as a hash, is generated using a cryptographic algorithm. This hash is unique to the data in the item - even a small change to the data will result in a completely different hash. This means each item has a unique identifier that can't be replicated or forged

Find out more: What is a hash?

1. **Recording the Time and Additional Information**:
   The next step in the process is to record the precise time the item was created or modified, along with any other relevant data. This can include information about who created or modified the item, the location where it was created, or any other details that might be relevant. This data is then combined with the unique hash from the first step to create the timestamp.
2. **Verifying the Timestamp**:
   The final step is to verify the timestamp. This is typically done by comparing the hash of the timestamped item with the original hash. If the two hashes match, this confirms that the item has not been altered since it was timestamped. The timestamp serves as proof of when the item was created or last modified and can be used to resolve disputes, establish ownership, or confirm the authenticity of the item.

In essence, timestamping is a process that helps to create a secure and verifiable record of when and how digital data was created or modified. This process is crucial in today's digital world, where data integrity and authenticity are of paramount importance.

# What is a hash?

The technology used by VIDT is built around something called a hash. A hash is like a unique digital fingerprint for a file. This fingerprint is calculated using the digital information, the 1s and 0s, that make up a file.

> When VIDT creates a timestamp, it records the file's hash - its unique fingerprint - and not the file itself.

Here's the special thing about a hash: if you have the same file, you will always get the same hash. But, if you change even the smallest thing in the file, you'll get a completely different hash.

# Privacy

Another important thing about a hash is that you can't use it to figure out what the original file was. It's a one-way thing. You can create a hash from a file, but you can't create a file from a hash.

This is why the VIDT timestamp is so valuable. When VIDT creates a timestamp, it records the file's hash - its unique fingerprint - and not the file itself. This hash is proof that the file existed at a specific point in time. This method is both efficient and good for privacy. It gives you a way to prove that a document existed, without having to share the document itself.

# Why use blockchain?

What makes the blockchain technology particularly useful?

Blockchain technology is chosen for many reasons, but its key features of being unchangeable (immutable), open (transparent), and secure are the most important when it comes to timestamping. When you have a timestamp and you want to store it somewhere, it's crucial that it can't be messed with.

If you used a normal database, you'd have to trust the person who owns the database not to change anything. But with a blockchain, things are different - once something is recorded on the blockchain, it can't be changed. Every transaction is kept on the chain forever, and this includes timestamps.

## Web3

Trust isn't the only reason why VIDT DAO uses blockchain technology for timestamping. Web3 offers a lot of advantages when it comes to integration. It's like open-source software, meaning anyone can easily add it to their existing systems without needing special customizations.

The way you interact with the blockchain, like getting a timestamp, is well-defined and the same for anyone who wants to integrate it. This means it's a very versatile and accessible technology for a variety of applications.

# The Benefits of Blockchain Timestamping

Blockchain timestamping offers a host of benefits that greatly improve the way businesses operate.

Let's break down these benefits:

1. **Security**: Blockchain timestamping enhances security by producing transaction records that cannot be tampered with. This feature is crucial as it protects businesses from unauthorized alterations or fraudulent activities that could potentially harm their operations.
2. **Transparency**: Every transaction recorded on the blockchain is visible to everyone, promoting transparency. For businesses, this transparency is invaluable, especially during audits or legal proceedings, where a clear record of transactions is required.
3. **Fraud Prevention**: Blockchain timestamping is an effective mechanism to combat fraud. It provides a detailed trail of transactions, enabling businesses to trace and verify their transaction history. This process can help identify and prevent fraudulent activities, ensuring the data's authenticity and integrity.
4. **Cost Efficiency**: Blockchain timestamping can lead to significant cost savings. Traditional transactions often involve intermediaries like banks or other service providers, adding to the overall cost and complexity. In contrast, blockchain timestamping cuts out these middlemen, directly recording transactions on the blockchain. This reduction in costs can result in considerable savings for businesses over time.

5. **Time Efficiency**: Besides cost savings, blockchain timestamping also speeds up the transaction process. As transactions are directly recorded on the blockchain, without the need for intermediaries, the process is faster and more streamlined. This efficiency can lead to improved business operations.

In essence, blockchain timestamping offers businesses a secure, transparent, and efficient way to record and validate transactions. By leveraging this technology, businesses can enhance their operational efficiency, mitigate fraud risks, and foster a climate of trust and transparency.

Explore how various Integrators have integrated VIDT Timestamping Technology.

# The value of timestamping

Why is it so useful?

## Timestamping usefulness

Timestamping is a useful tool that can be used in many ways. But why is it so valuable? Well, it depends on how you're using it and what you're using it for. Let's say you take a selfie, or you have a contract from an important client. Both these things can be timestamped, but the contract probably has more value than the selfie.

At its most basic, timestamping is like putting a digital "lock" on a file at a specific moment in time. This is really useful for digital things that are shared a lot or that need to prove they're the real deal.

## Proof of existence

One great thing about timestamping, especially with the tech used by VIDT DAO, is that the timestamp itself doesn't hold any info except the proof that the content existed at a certain time. This is good for privacy and makes it possible to use timestamping for things involving sensitive data. The term used for this mechanic is Proof-of-existence.

In the end, how much a timestamp is worth depends on who's using the timestamping process and who's receiving the timestamped documents. Its importance can change depending on the situation and how it's being used.

For more on this, check out our list of Integrators here.

# What is the context in a timestamp?

The concept of 'context' when it comes to a timestamp refers to the particular situation or environment in which an event happens and gets recorded. Understanding this context is crucial for accurately interpreting the importance of the timestamp and the event it's tied to.

The context could include things like the kind of data that's being timestamped, who's involved, and the purpose of the timestamp, among other things.

## The importance of a context

Grasping the context is key for the process of timestamping because it helps make sure that the timestamp is fitting, dependable, and relevant. For example, let's say you're timestamping a legal document. The context for this might include who's involved in the agreement, where the document is being used, and any specific legal rules that apply to the process of timestamping.

On the other hand, if you're timestamping a piece of creative work to protect intellectual property, the context could include what kind of work it is, who created it, when it was created, and the laws about intellectual property that apply.

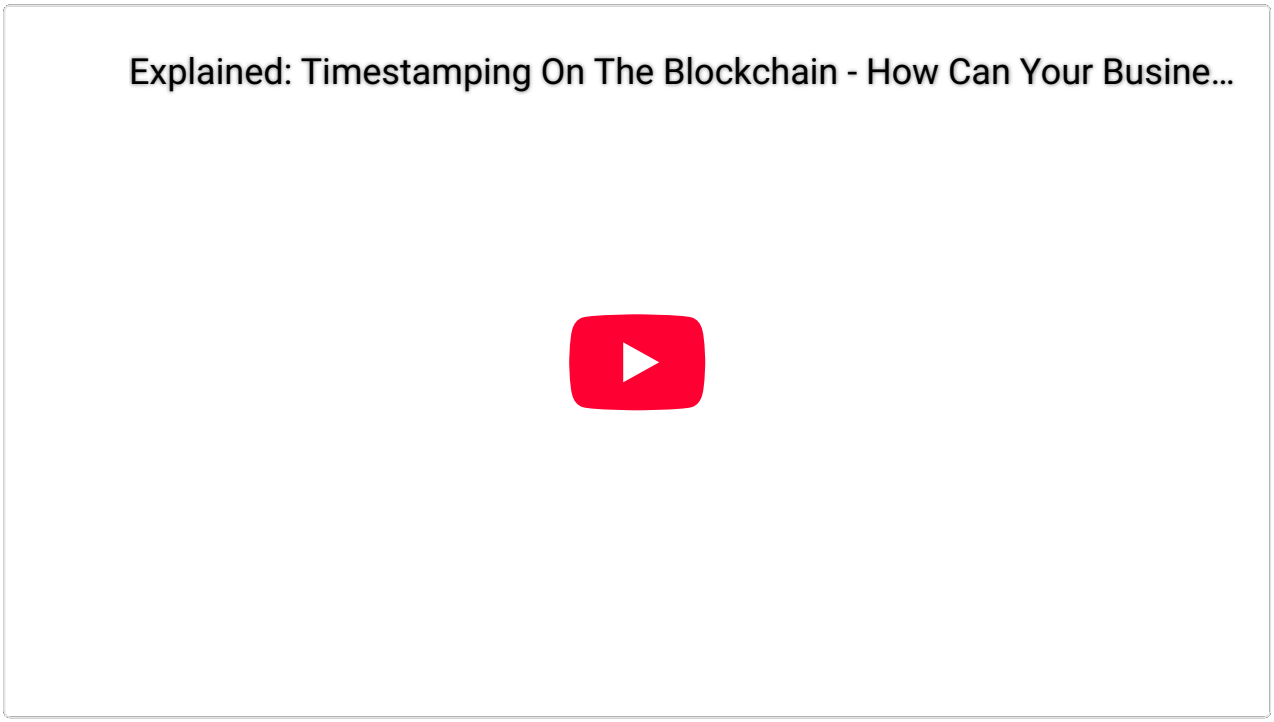
# Dynamic context

By taking the context into account, the process of timestamping can be customized to suit the specific needs of the situation. This ensures that the timestamp fulfills its intended role and provides useful evidence when it's needed.

Each use-case is different and the context is what makes it unique in different situations. The context can be used to describe what is happening; and thus what the timestamp represents.

# Video: Timestamping On The Blockchain

Learn more about Timestamping On The Blockchain.




Powered By Connecting Knowledge

# Integrators

# AI-Validator

With AI-Validator, facts and statements can be timestamped as truth by individuals and organisations.


As one of our latest integrators, AI Validator is a tool that's will change the game when it comes to making sure data from AI is the real deal. Thanks to $VIDT technology, this tool uses blockchain to check and mark data with a timestamp, guaranteeing it's accuracy and originality.

We're living in a time where data is everywhere, and knowing what's reliable has never been more important. AI Validator is here to bring trust to the AI space, using the power of $VIDT technology to verify data accuracy and originality. This new tool allows anyone to timestamp data on the blockchain, locking it in as a source of truth.

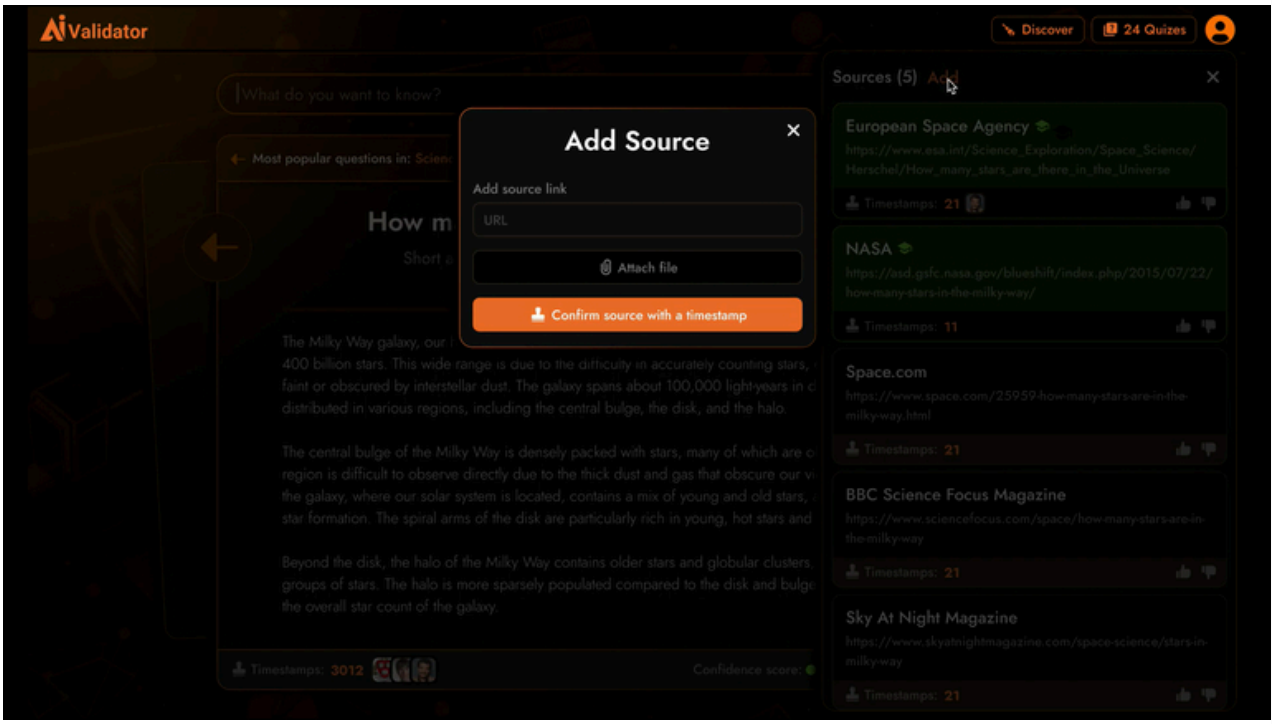
Check out ai-validator.io and join the waiting list to stay in the loop!

https://youtu.be/rFjqMad7N-M
youtu.be

**Why AI Validator?**

With AI and machine learning becoming a bigger part of our daily lives, it's key to ensure the information they use is correct. That's where AI Validator steps in. It's designed for people and organizations alike, making it easy to validate and timestamp facts, statements, and insights. With this simple tool, every verified

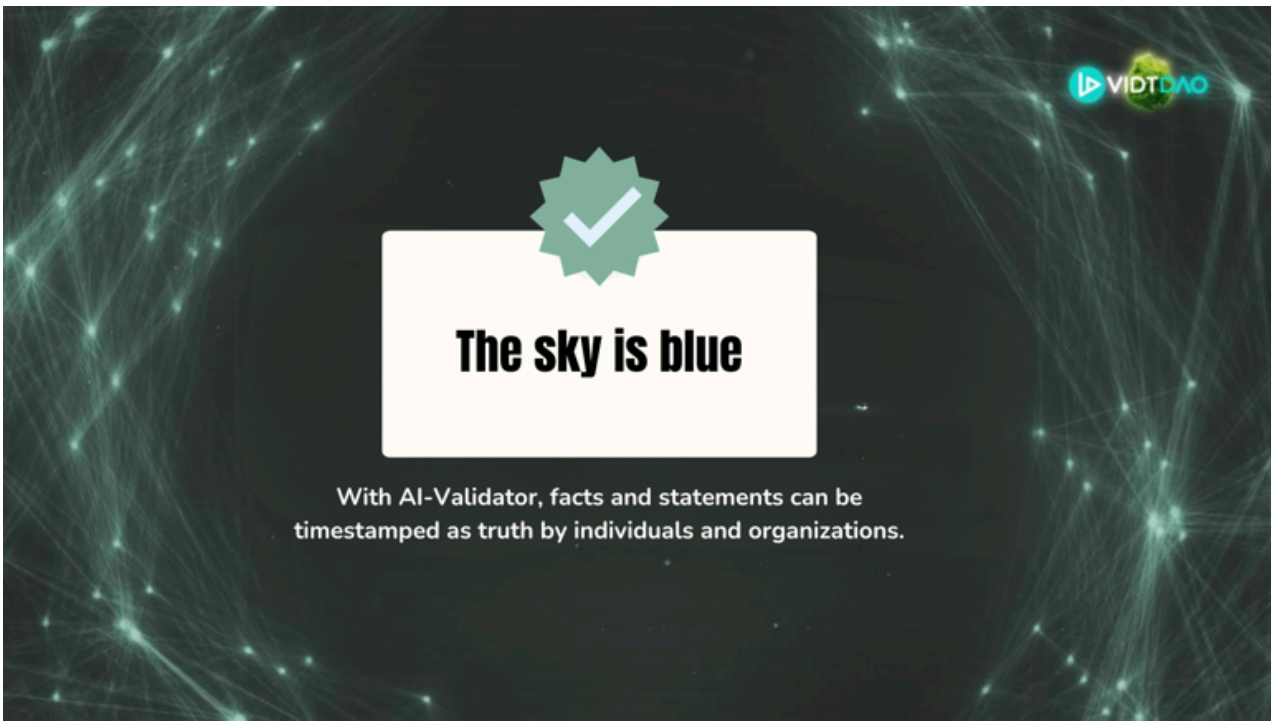
piece of information is securely recorded on the blockchain, so you know it's legit.




With AI Validator, facts and statements are timestamped and provided with reliable sources at all times.

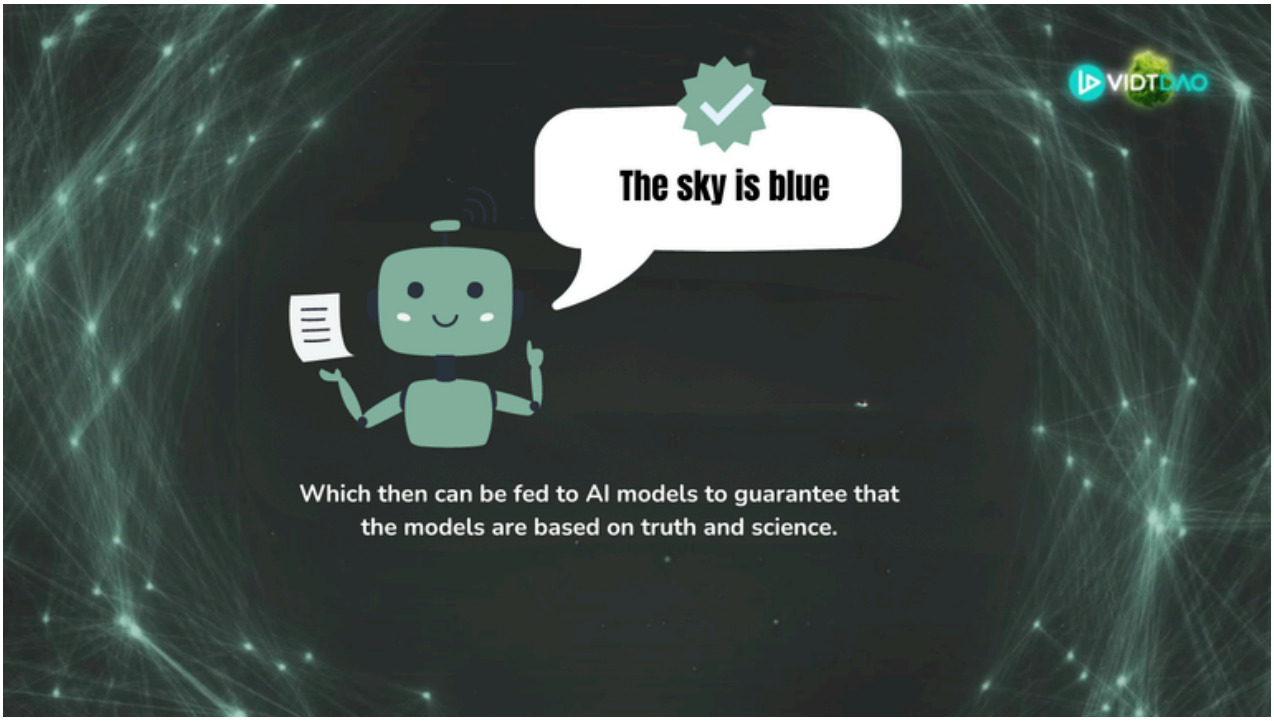
**How does that work?**

Easy! With AI-Validator, facts and statements can be timestamped as truth by individuals and organisations.




AI-Validator timestamps facts and statements as truth.

These facts and statements can later be fed to AI models, such as ChatGPT, to guarantee that the models are providing answers to user generated prompts based on truth and science.

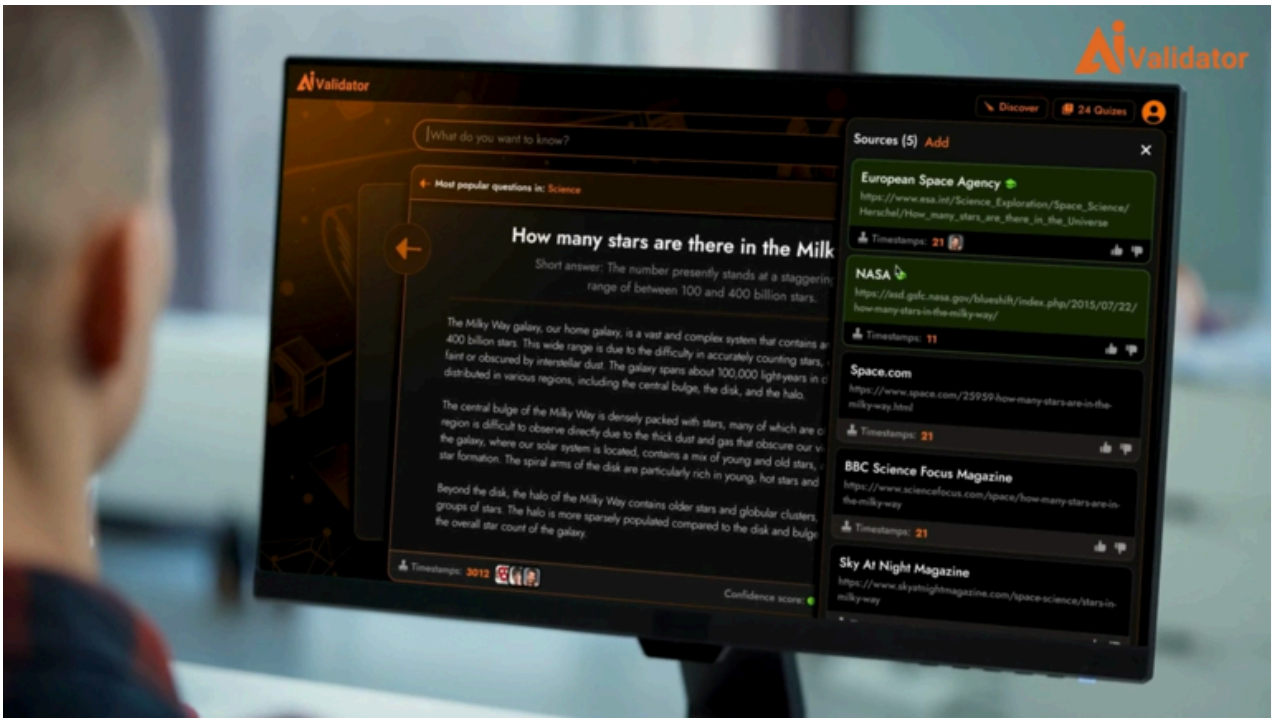



AI-Validator uses timestamped facts and statements to generate truth-based answers on user-generated prompts.

The goal is simple: to build a strong base of verified info that AI can rely on to deliver reliable responses every time.

In short, here's is what AI Validator will do:

- **Timestamped Validation:** Quickly timestamp and store facts, making them permanently available on the blockchain.
- **Reliable API Access:** AI systems and applications can connect to this verified data through an API, so they can easily integrate reliable information across different use cases.




AI Validator offers easy API integration for third party AI Tools and Use-cases.

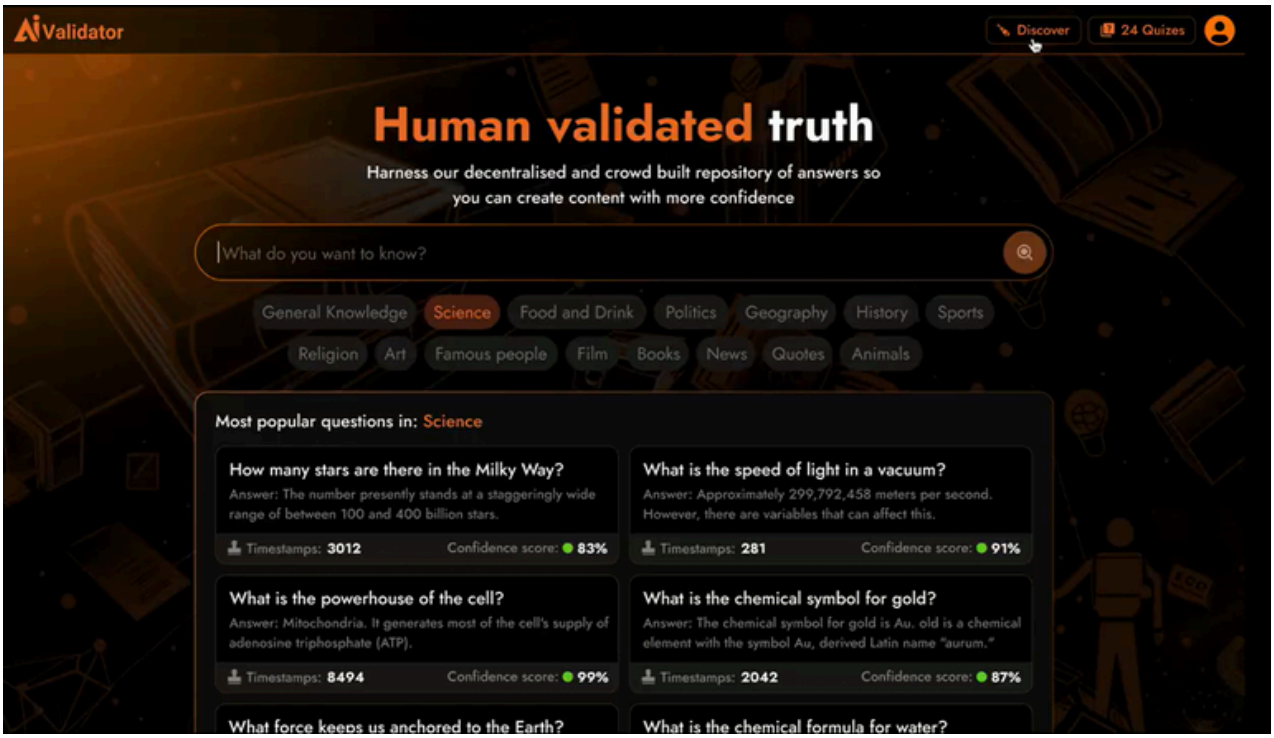
**The Big Picture for AI**

AI Validator is all about trust. By verifying each piece of data on the blockchain, it's taking a stand against misinformation and helping AI tools become more dependable in crucial areas like news, health, and education. This way, AI Validator ensures every data point is secure and helps create a digital environment where wrong info has no place.

**Helping Innovators Build with Confidence**

AI Validator isn't just for stopping fake data—it's a solid foundation for creators, developers, and innovators. By anchoring every fact in blockchain, it gives

them the confidence to make the most out of their projects without second-guessing their data sources.




Homepageo of AI Validator's Dashboard, a crowd built repository of answers, factchecked and timestamped.

**Get Involved with AI Validator**

Explore the potential of AI Validator on ai-validator.io, where you can join the waiting list for the latest updates. The concept packed with features to make fact-checking simple and fun:

- **Easy Dashboard:** Search for and verify facts on a wide range of topics.
- **API for Verified Data:** Enables AI systems to pull trustworthy, fact-checked data with ease.
- **Educational Tools:** Test your knowledge with interactive quizzes and explore fact-based learning.

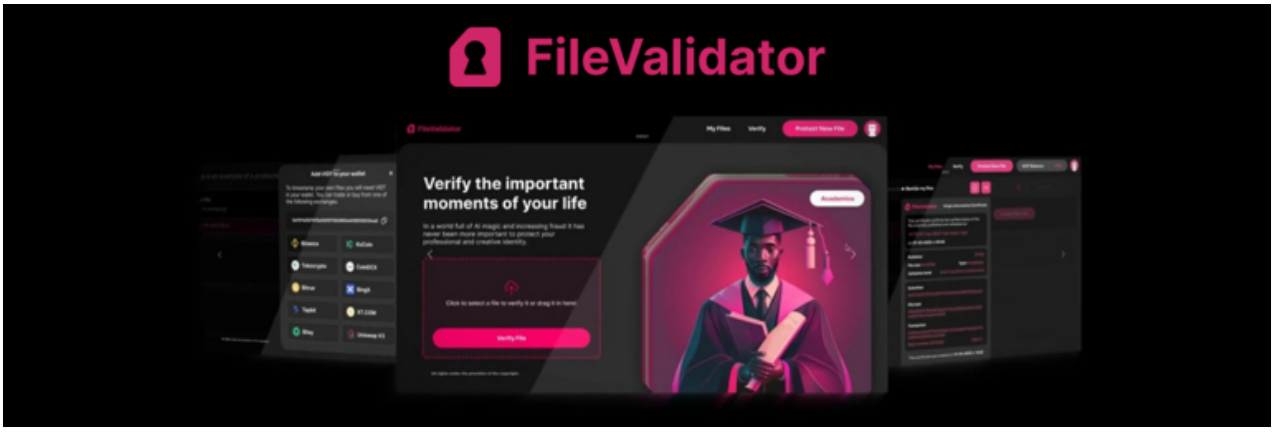
**Our Vision: Making Truth Accessible for Everyone**

AI Validator isn't just a database; it's an educational platform that brings verified information to anyone who needs it. For AI systems, marketers, researchers, and everyday users, it's a go-to solution for sourcing accurate data. With AI Validator, VIDT DAO is committed to empowering everyone to make better, fact-based decisions in a world where data accuracy is essential.

With AI Validator, VIDT DAO is making trust in AI a reality—empowering users to navigate the digital world with confidence in the reliability of their data.

# FileValidator

Using the power of VIDT DAO technology, FileValidator lets anybody timestamp and verify any file's authenticity.



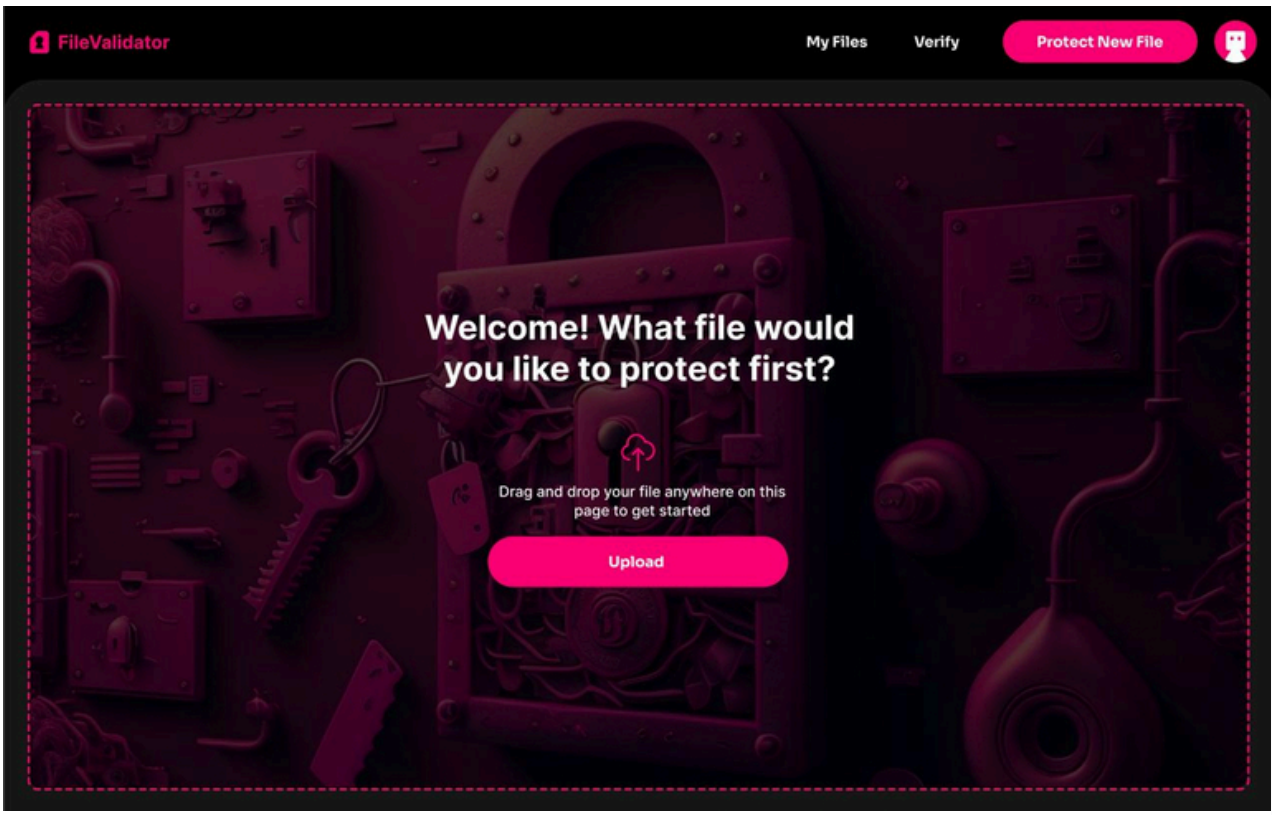

FileValidator V1 - Release Date yet to be announced.

FileValidator V1 is currently in development. FileValidator Open Beta is available here.

# FileValidator

Tailored to meet the needs of the average user, FileValidator lets anybody timestamp any document they'd like using the state-of-the-art VIDT DAO timestamping technology. This platform safeguards the authenticity of a variety of content, ranging from documents and innovative ideas to artwork and music. It allows users to confidently showcase their work's originality to the world.

The fundamental offering of FileValidator lies in its robust timestamping feature. By harnessing the formidable VIDT DAO technology, it enables users to swiftly timestamp and authenticate any file within seconds.




First images of FileValidator V1 UI/UX design.

For a record of ownership that's secure, transparent, and immune to tampering, FileValidator utilizes the advanced smart contract capability of VIDT DAO. This feature registers and timestamps the unique digital fingerprint of any piece of work on a public blockchain. With this advanced technology, FileValidator ensures that user data remains unaltered and indisputable, providing an irrefutable and unchangeable record of the work's originality.

Click here to learn more about timestamping!

# Find out more:

- https://www.filevalidator.com/
- https://twitter.com/FileValidator

# FileValidator Explained

FileValidator explained in three simple steps.

The timestamping process of FileValidator can essentially be divided in 3 steps:

1. **Making a Unique Digital Fingerprint**:
   Think of FileValidator as a tool that creates a unique digital fingerprint for your work. Just like every human fingerprint is unique, every file you create gets a unique digital fingerprint. This fingerprint is made using a method called a cryptographic hashing algorithm. What's cool about this is that even a small change in your file will create a completely different fingerprint. So, your work will always have a unique fingerprint that can't be faked.
2. **Recording the Creation Time and More**:
   FileValidator does more than just create a digital fingerprint. It also records when the file was created and other information like who created it and a brief description of the work. This information helps prove who made the work and when it was first created. FileValidator can then take this digital fingerprint and other information and put it on a public blockchain. Why is this important? Because a blockchain is like a public record that can't be changed or deleted. This means your work's history is safe and can't be tampered with.
3. **Checking Ownership**:

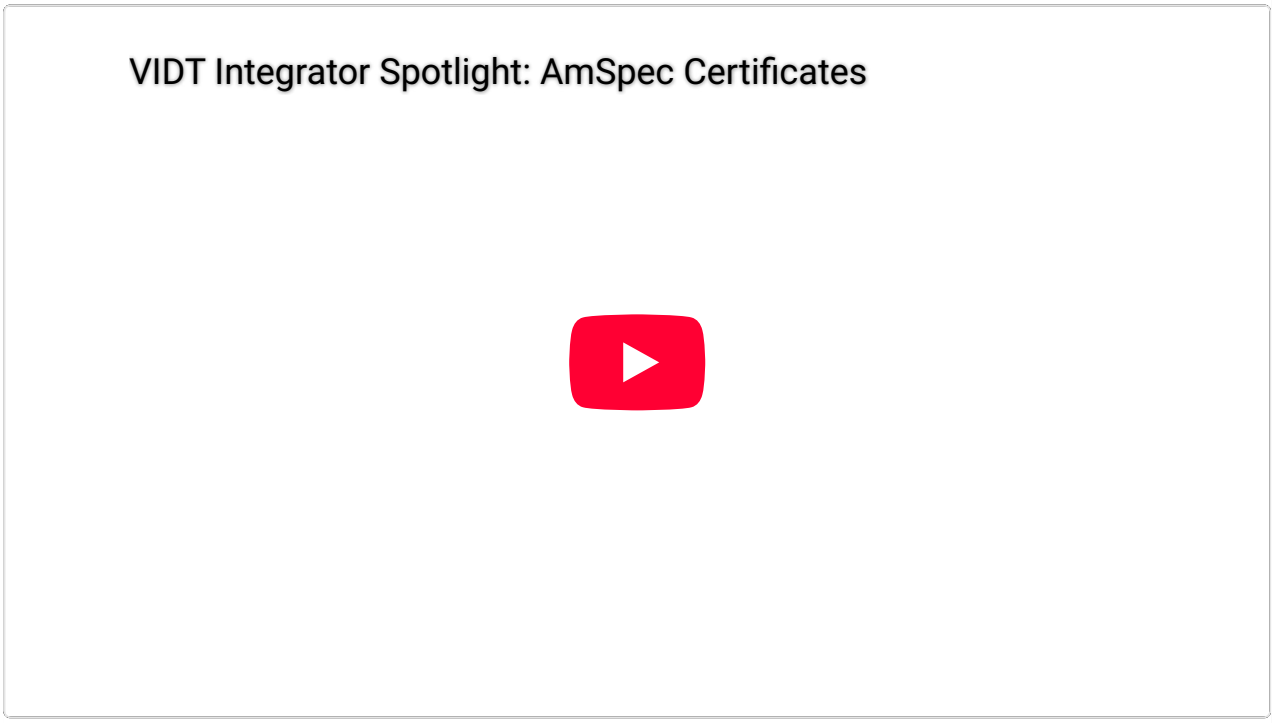
   Let's say someone tries to claim your work as their own or uses it without asking you. FileValidator can help you prove that the work is yours. How? By comparing digital fingerprints. If the fingerprints match, it's strong evidence that the work is indeed yours. This can help you settle disputes, discuss terms if someone wants to use your work, or even take legal action if you need to.

So, in simple terms, FileValidator helps you create a unique mark for your work and documents, records when and by whom it was created, and helps you prove your ownership if someone tries to use it without your permission. It's like having a security guard for your files!

# AmSpec

Using the power of VIDT DAO technology, AmSpec timestamps measurement reports in the oild & gas industry.

Any business can become an integrator by integrating VIDT DAO's timestamping technology into its services.




# AmSpec

For numerous decades, the AmSpec Group has built a trusted reputation in the Testing, Inspection, and Certification (TIC) industry. Continually providing independent, precise analyses and inspections across a variety of commodities, AmSpec has emerged as a relied-upon service provider.

The significance of AmSpec's reports and analysis certificates extends far beyond mere documentation. They are a cornerstone of daily operations in the global petroleum trading and refining sector. These reports contain sensitive and vital data so immutability is of utmost importance.

# Authenticity

To ensure a report remains authentic, AmSpec is one of the few companies in its sector to offer the ability to sensibly apply state-of-the-art blockchain technology. VIDT DAO timestamping technology provides the capability to protect the AmSpec values against falsified reports – allowing reports to be verified on whether it's an original or a copy.

Click here to learn more about timestamping!

# Find out more:

- https://www.amspecgroup.com/verify/

# ValidatedReality

The ValidatedReality (VR) project utilizes VIDT Technology to anchor personal VR memories into the blockchain.

In a time when immersive experiences are in high demand, the ValidatedReality (VR) project seeks to transform the way we record, share, and revisit our most valued memories. Utilizing state-of-the-art VR technology, such as the Apple Vision Pro, we're establishing a workflow and technical foundation designed for creating vivid, realistic virtual reality memories.

Drawing inspiration from immersive experiences such as the Alicia Keys private concert, the High-lining adventure, and other immersive videos published on Apple TV, our goal is to create a platform where anyone can record and share their favorite locations and memories in mesmerizing detail.

## Objective

Our project aims to develop a successful prototype that demonstrates the capability to record, edit, and view immersive VR memories. Post prototype

development, we plan to release several VR memories online as a showcase of the potential of this technology. The ultimate goal is to scale the project, enabling users worldwide to create and share their VR memories, thus building a global community of shared experiences.

## Technical Setup and Workflow Development

**Hardware and Software Requirements:** Identify and acquire state-of-the-art VR recording equipment compatible with the Apple Vision Pro and other VR-headsets. Develop software for the editing and rendering of captured footage into VR compatible formats.

**Capture Methodology:** Establish a standardized process for capturing high-quality VR footage, focusing on 180-degree video capture, spatial audio recording, and environmental metadata collection.

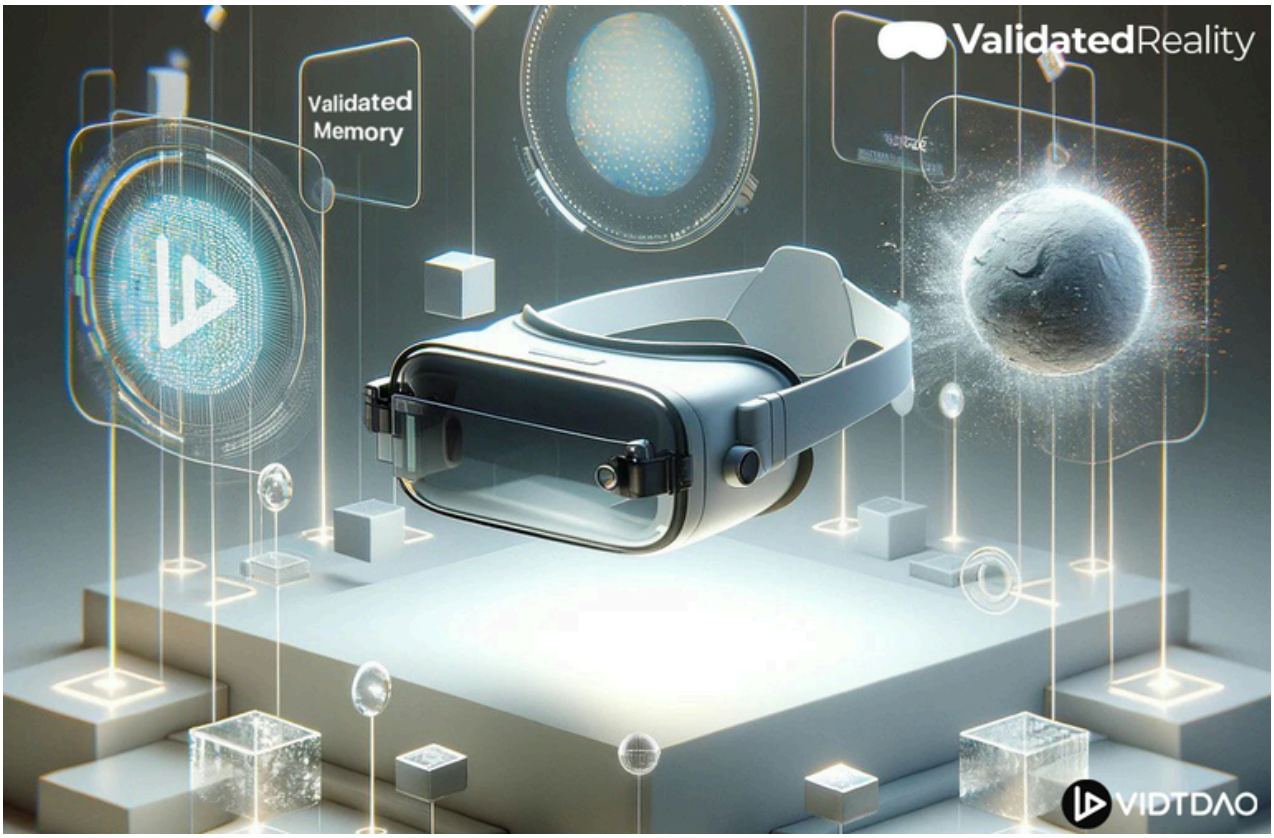
**Post-Production Workflow:** Create an intuitive suite of tools for editing VR content, including stitching together 180-degree footage, optimizing audio for spatial playback, and integrating metadata for a more immersive experience.

## Guaranteed Authenticity

What sets this project apart is its unique feature that ensures the authenticity of these VR memories. Utilizing the secure and efficient VIDT DAO blockchain, the ValidatedReality project implements a straightforward but effective process to guarantee that every virtual reality memory is genuine and tamper-proof. This added layer of verification not only enhances the integrity of the memories we cherish but also pioneers a new standard in the digital preservation of our experiences.

- **Digital Fingerprinting:** Each VR memory is given a unique digital fingerprint when created.

- **Blockchain Timestamping:** This fingerprint is then time-stamped and recorded on the VIDT DAO blockchain, ensuring it's immutable—forever unchanged and tamper-proof.
- **Verification:** Anyone can verify a VR memory's authenticity by comparing its current fingerprint with the one stored on the blockchain. A match means the memory is genuine and unchanged.
- **Decentralized Trust:** This blockchain integration ensures that the verification process is transparent and independent, fostering trust in the digital preservation of memories.




In essence, the VIDT DAO blockchain acts as a notary for digital memories, certifying their originality and protecting them against alterations, thereby ensuring that cherished moments are preserved authentically and securely.

# Prototype & Testing

First step of this project is prototype development, R&D, testing / feedback, hardware / software acquisition, initial content creation and showcase launch

on VR platforms like DEO VR and on our main socials. The ValidatedReality project stands at the convergence of technology and human experience, offering a revolutionary way to capture and share our world.

By creating a scalable prototype for VR memory creation and sharing, we aim to unlock a new dimension of storytelling and connection, bringing people closer to the moments that matter most. With your support, we can make this vision a reality, transforming the way we relive our memories forever.


## Online Showcase and Community Engagement

**Online Platform Development:** Use an online platform for sharing and discovering VR memories, incorporating user feedback mechanisms and social sharing features.

**Showcase Launch:** Release the initial series of VR memories on a VR platform, promoting them through social media and VR communities to generate interest and engagement.

**Community Building:** Encourage users to create and share their own VR memories, providing tutorials, best practices, and support to foster a vibrant community.

# Possible Future Steps: Expansion and Collaboration

**Open Platform Development:** Develop tools and APIs that allow users to upload and share their VR memories easily, ensuring compatibility with various VR devices.

**Partnerships and Collaborations:** Seek partnerships with content creators, tourism boards, and educational institutions to expand the range of available VR memories.

**Continuous Improvement:** Implement a feedback loop with the community to continuously refine the platform, introduce new features, and enhance the user experience.

For additional details, delve into our tech initiatives by exploring https://twitter.com/ValidatedRlty . For a deeper engagement with our decentralization efforts, connect with our DAO partners at https://vidt-dao.com .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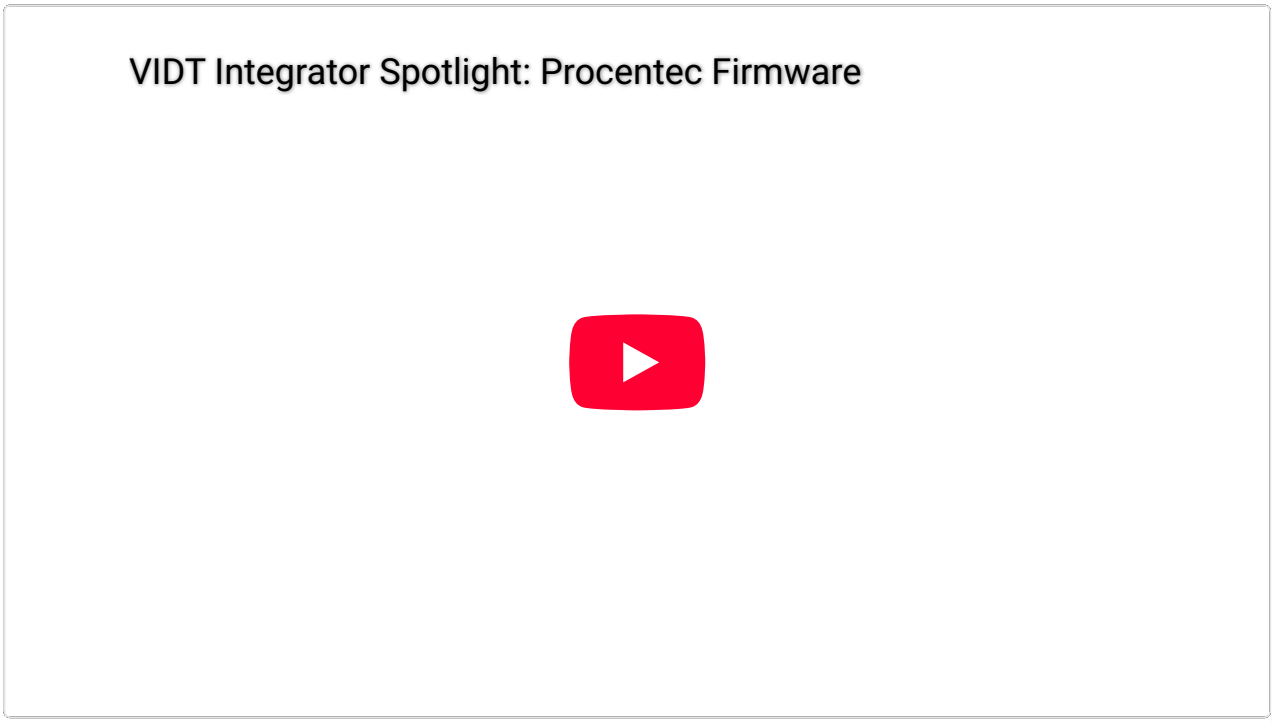
# Procentec

Using the power of VIDT DAO technology, Procentec protects important firmware using their Lockbox platform.

Any business can become an integrator by integrating VIDT DAO's timestamping technology into its services.




# Procentec

As we swiftly navigate towards a digitized world, the protection of production infrastructure against cyber threats has become critical in ensuring uninterrupted operation. Procentec stands at the vanguard of the industry, combating these challenges with innovative, state-of-the-art solutions.

The first stage of their ambitious mission involves the implementation of the Verification Terminal. This tool leverages the power of VIDT DAO timestamping technology to safeguard the authenticity of your firmware. Consequently, the authenticity of each file can be verified within a mere five seconds using the Verification Terminal.

# Lockbox

Procentec has also introduced Lockbox - a robust platform designed to ensure the safety of all current and future firmware installed on the factory floor. This groundbreaking approach fundamentally transforms the way facilities achieve 100% data integrity, employing VIDT DAO timestamping technology to its full potential. With Procentec and Lockbox, revolutionize your facility's data integrity and security.

Click here to learn more about timestamping!

# Find out more:

- https://procentec.com/security/

# VerifyAllDocuments.com

Using the power of VIDT DAO technology, VerifyAllDocuments.com has developed a timestamping platform.

> Any business can become an integrator by integrating VIDT DAO's timestamping technology into its services.

## VerifyAllDocuments.com

Verifyalldocuments.com is a bespoke software development platform that has made its mission to safely certify & secure all digital assets, so fraud & errors no longer hold back society's innovations in digitalization, or in short “Risk-Free Business”.

They offer a comprehensive Certification & Verification service, which harnesses the power of VIDT DAO’s revolutionary blockchain technology. This technology aims to integrate robust security within business processes by making data integrity verifiable. With the services provided by Verifyalldocuments.com, businesses can confidently secure their digital assets, enabling innovation to thrive without constraint.

> Click here to learn more about timestamping!

## Find out more:

- https://www.verifyalldocuments.com/

# Amsterdam Vintage Watches

Using the power of VIDT DAO technology, Amsterdam Vintage Watches timestamps the authenticity of luxury watches.

Any business can become an integrator by integrating VIDT DAO's timestamping technology into its services.

## Amsterdam Vintage Watches (AVW)

Amsterdam Vintage Watches is a family-run watch business, established in 1987, in a historical building in the heart of Amsterdam. Over the last decades, Amsterdam Vintage Watches has proven itself worthy of the trust of countless customers from around the globe.

Powered by VIDT DAO technology, Amsterdam Vintage Watches offers its customers certificates to verify authenticity, and includes photos of the watches' unique features and markings that are impossible to duplicate.

This use case was developed in partnership with WordProof. For each watch, WordProof has timestamped the product description, photos, and specifications on the blockchain. Amsterdam Vintage Watches customers can verify when and how the information changed.

The information about the watch and the watch itself is timestamped on the blockchain. Now and in the future: customers can verify the information and are able to hold Amsterdam

Click here to learn more about timestamping!

# Find out more:

- https://amsterdamvintagewatches.com/
- https://wordproof.com/

# IBM (Internet of Environments)

IBM, VIDT, and Factory Lab - a leading company in data sensors, have come together to develop a Corona Safety Indicator sensor.

> Any business can become an integrator by integrating VIDT DAO's timestamping technology into its services.

IBM is a key partner for VIDT, working together on several innovative projects within the Internet of Things (IoT) space. A notable initiative where IBM and VIDT have collaborated is the "Internet of Environments" project. This project seeks to create healthier cities by monitoring environmental factors such as micro-dust, humidity, CO2 levels, and temperature. Sensors are placed in strategic locations, like rooftops of buildings, to gather air quality data and detect pollutants. The first such sensor was installed on the roof of IBM's headquarters in the Netherlands.

These sensors regularly send data through VIDT's infrastructure, where it's securely stored on the IBM Hyperledger, Ethereum, and Binance Smart Chain blockchains. This process ensures the data remains untouched and free from any potential manipulation, providing an accurate and trustworthy dataset for analysis.

## Indoor air quality

During the global pandemic, this partnership has taken on additional significance. IBM, VIDT, and Factory Lab, a leading company in data sensors for buildings, have come together to develop a Corona Safety Indicator sensor. These sensors, designed for indoor spaces, measure the air quality in a room and provide indications about its ventilation quality, crucial in the fight against Covid-19.

The data from these sensors is processed through VIDT's cloud, where it's authenticity is securily stored on the blockchain to ensure data integrity. It's then forwarded to IBM's supercomputer, Watson, for analysis. This collaborative

effort between VIDT and IBM showcases the transformative potential of blockchain and IoT in addressing real-world challenges, making our environments safer, and enhancing the quality of life.

To learn more about this initiative and the collaboration between IBM and VIDT, you can visit the original article here.

# Douwes Fine Art (Rembrandt on Chain)

The first ever Rembrandt etching was timestamped on the blockchain in a collaboration between CMS, Douwes Fine Art and VIDT.

A seventeenth-century etching by Rembrandt has been immortalized using multiple blockchains. CMS was involved in the project to notarize the process. The goal of this worldwide premiere: better protection against art fraud.

The validation of Rembrandt's etching The Virgin and Child in the Clouds took place at Douwes Fine Art gallery in Amsterdam. By validating artworks through blockchain, they are better protected against art fraud and authenticity can be established more easily and quickly.

## Macro photos

To make sure the Certificate of Authenticity published by Douwes Fine Art can actually be used to verify the authenticity of the etching, macro photos were taken. With these photos, every unique and identifying characteristic of the etching is recorded and stored in the certificate so that anybody can use the document to make sure the etching is authentic.

## Timestamping

VIDT DAO timestamping technology was used to make sure the Certificate of Authenticity can always be verified. Anybody who has received a copy of the document can use the technology to make sure it is the original document published by Douwes Fine Art, and not a fake refering to a different etching.

## Find out more:

- https://cms.law/

# Resources

# FAQ

Any questions?

### You only exist in two major exchanges. Binance and Kucoin. Why are you not listed on other exchanges?

Our presence on major exchanges like Binance and KuCoin is certainly a significant milestone for the VIDT DAO, but we do understand the appeal and convenience of being listed on additional exchanges, such as Coinbase.

Listing a new DAO on platforms like Coinbase is a process that requires careful navigation and substantial time. We want to assure you that we are actively exploring this avenue, although at this stage we can't make any firm commitments.

We want the community to know that we are devoted to these endeavors and are investing considerable effort into them. Please bear with us as we continue to work towards these goals, and rest assured that we'll keep you updated on our progress.

### Who makes up the Awareness Team for VIDT?

The VIDT Awareness Team is made up of volunteers who are excited about VIDT. They donate their time and skills to let more people know about VIDT.

Find out more at VIDT DAO Community

### What is the core function of VIDT?

The core functionality of VIDT DAO is timestamping. A timestamp is a digital record that indicates the time an event occurred. The VIDT DAO technology lets integrators make a document's authenticity

verifiable. This means that the technology can be used to provide trust and security for all documents.

Found out more about timestamping at Timestamping

Are the VIDT delisting rumors on Twitter true?

The rumors about VIDT being delisted are not true. In fact, VIDT has recently been acknowledged with the prestigious Layer 1 / Layer 2 tag by Binance, one of the largest cryptocurrency exchanges in the world.

This distinction not only highlights the immense potential of VIDT but also the trust and stability it has established within the blockchain community. Essentially, VIDT has moved up to another league with this recognition, underlining that delisting is not on the horizon.

The VIDT to VIDT DAO transition didn't result in a proportional increase in supply when the price dropped. The supply was increased by a lot more. What happened here?

During the transition from VIDT to VIDT DAO, it's crucial to understand that such processes do not usually align with a one-to-one price correlation. Around the same period, an unfortunate event, the bankruptcy of FTX, led to a significant drop in the value of many coins, including $VIDT, and the overall crypto market.

Additionally, as we understand it, as part of kickstarting the new VIDT DAO ecosystem, a treasury was established, which resulted in an increase in supply. It's important to remember that this action was taken not to harm investors, but rather to stimulate and support the long-term growth of the VIDT DAO, with the ultimate aim of delivering value to all community members.

What's in store for the near future?

The Team behind FileValidator recently announced the development for the V1 update on Twitter. FileValidator aims to integrate the VIDT DAO smart contract and bring it to consumers with a super easy-to-use UI/UX, enabling everyone to timestamp their files, ranging from essential contracts to creative work. We think FileValidator has huge potential to expand the VIDT DAO and are eager to see how their launch plays out.

It is an excellent showcase for the potential of VIDT DAO and we encourage everyone to use it.

More information on FileValidator can be found on Twitter via @filevalidator and at www.filevalidator.com

# Feedback

We would love to hear your feedback and thoughts. Do you have new exciting topics that need to be added to this academy? Fill out this form.

# Lightpaper

All information in one place.

The VIDT DAO ecosystem has seen multiple master- and lightpapers throughout its existence. The latest lightpaper includes information about the VIDT DAO and the ecosystem in general.

You can find the latest version here:

lightpaper/VIDT-DAO-lightpaper.pdf at main · VIDT-DAO/lightpaper

GitHub

# VIDT DAO token swap

Going from VIDT Datalink (OLD) to VIDT DAO (NEW) tokens

In line with the evolution from VIDT Datalink to the newly established VIDT DAO decentralized ecosystem, a new utility token has been introduced. This new token, known as VIDT DAO ($VIDT), has been listed on several exchanges, including prominent ones like Binance and KuCoin.

Holders of the old VIDT Datalink token have the opportunity to exchange it for the new VIDT DAO token at a ratio of 1:10. This means that for each VIDT Datalink token you exchange, you will receive 10 VIDT DAO tokens in return.

This page provides a step-by-step guide to assist you in the token swapping process.

> The VIDT Academy, as a team of VIDT DAO enthusiasts, operates independently and is not associated with the developers who have released the swap smart contract, the original VIDT Datalink token contract, and the new VIDT DAO token contract. Our dedication to supporting the community has led us to create this guide, aimed at assisting members who still possess the old VIDT Datalink tokens. Please note that the VIDT Academy is not liable for any potential losses incurred during the swapping process.

## General information

> Throughout each step of this process, it's crucial to ensure that you're interacting exclusively with the smart contracts and tokens specified below. Exercise extreme caution: authorizing a different smart contract could lead to the theft of your tokens. Always double-check the contract details to safeguard your assets.

**VIDT Datalink smart contract:**
https://etherscan.io/token/0xfeF4185594457050cC9c23980d301908FE057Bb1

**VIDT Datalink to DAO Swap smart contract:**
https://etherscan.io/address/0xfba915a2765dfc34dc0e19c0d63ff715264d36d3

## The swapping process

Before we get started with performing the actual steps, this is what the process looks like:

### Allowance:

To execute the swap, you will be utilizing the transaction functionality on Etherscan. For this process, you'll need a wallet that can connect to Etherscan and holds your VIDT Datalink tokens, along with Ether to cover the transaction fees. Metamask, particularly with its browser plugin, is the most user-friendly wallet for this purpose.

The swapping mechanism involves a smart contract that exchanges your VIDT Datalink tokens for VIDT DAO tokens at a 1:10 ratio. For security purposes, this smart contract requires specific permission from you before it can access your VIDT Datalink tokens. This permission is termed an 'allowance,' which essentially means granting the smart contract the authority to handle your tokens on your behalf. For a more detailed understanding of what an 'allowance' entails, you can find additional information here.

### The swap:

The swap is facilitated by the 'VIDT Datalink to DAO Swap' smart contract. This contract is designed to automatically exchange all the VIDT Datalink tokens in your transacting wallet, sending back VIDT DAO tokens at a 1:10 ratio. It's a straightforward process where the smart contract manages the exchange seamlessly.

> Please be aware that this transaction is designed to exchange all your tokens in a single operation. Consequently, if the allowance you set doesn't cover the entirety of your tokens, the transaction will fail, resulting in an error. In such a case, your VIDT Datalink tokens will remain unswapped and stay in your possession.

# Performing the swap

## Step 1: Getting started

For this guide, we recommend using a MetaMask wallet due to its seamless integration with Etherscan, which is essential for completing the swap process.

However, you can also use other wallets that support WalletConnect. Some well-known compatible wallets include Zerion, Ledger, and Fireblocks. To confirm if your wallet is compatible, please check the WalletConnect explorer page.

The initial step in this process is to verify your ownership of VIDT Datalink tokens. It's crucial that these tokens originate from the specific smart contract viewable here. To ensure this, you can add the token to your wallet using its contract address: 0xfeF4185594457050cC9c23980d301908FE057Bb1.

Please be aware that within MetaMask, the token name 'VIDT DAO' may incorrectly appear, but this actually refers to VIDT Datalink. This inconsistency appears to be a bug in MetaMask and does not always occur. In some cases, the tokens are correctly identified as 'VIDT OLD' or 'VIDT DATALINK.' It's important to recognize this discrepancy to avoid any confusion during the swapping process.

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## Step 2: Allowance

Ensuring the correct allowance is critical, as an incorrect allowance will lead to a transaction failure. Even a failed transaction will cost transaction fees. It's essential to set the allowance for the entirety of your tokens (100%) and not just a partial amount.

To do this, navigate to the VIDT Datalink smart contract on Etherscan at https://etherscan.io/token/0xfeF4185594457050cC9c23980d301908FE057Bb1.

Once there, select the ‘Contract’ tab, followed by the ‘Write Contract’ subtab. This is where you'll adjust the allowance for your tokens.

## Connecting your wallet

Next, you'll need to connect your wallet to Etherscan to authenticate and verify the transaction. This can be done easily by clicking on the ‘Connect to Web3’ button, which is available on the same page. By doing so, Etherscan will establish a secure connection with your wallet, allowing you to proceed with the transaction and set the necessary allowances.

Once you've successfully connected your wallet, the button will turn green, indicating a successful connection.

## The Allowance transaction

Next, you'll need to carry out the "Allowance" transaction. This involves using the **'IncreaseAllowance function'** (number 9). To access this function, simply click on it. It requires two inputs: ***spender (address)*** and ***addedValue (uint256)***.

- The ***spender (address)*** input refers to the wallet or smart contract address authorized to manage your tokens. For this process, it will be the Swap smart contract, with the specific address: 0xfba915a2765dfc34dc0e19c0d63ff715264d36d3.
- The ***addedValue (uint256)*** refers to the maximum number of tokens the spender is permitted to transact on your behalf. Here, it should be the amount of your VIDT Datalink tokens. Remember, you need to append 18 zeros to this number, as VIDT Datalink tokens are based on 18 decimal places. To do this, input your token amount first, then click on the '+' next to ***addedValue (uint256)***, and finally select '$10^{18}$' to automatically add the necessary zeros.

> Make sure that you are using the wallet that holds your VIDT Datalink tokens to perform the Allowance transaction.

For the purpose of this guide we are using 100 VIDT Datalink tokens which will result in these settings being used:

Now click on ‘Write’ and complete the transaction through the wallet interface. For MetaMask it will look something like this:

You can see the transaction by clicking on the ‘View your transaction’ button that has now appeared on the Etherscan page.

## Confirming the allowance

To confirm that you've correctly completed the Allowance step, you can use the Ethereum Token Approval tool. Here's what to do:

1. Visit the Ethereum Token Approval tool.
2. Enter the address of your personal wallet that contains your VIDT Datalink tokens.
3. The tool will display the number of tokens you own. Note that this figure will be shown without the 18 decimal places.

This verification step is a useful way to ensure that your transaction settings have been accurately applied, reflecting the correct number of tokens in your possession. It will look something like this:

Please be aware that there might be a delay before your transaction is visible, as Etherscan needs time to index it. Additionally, you can verify your Allowance directly through the VIDT Datalink smart contract:

1. Navigate to the ‘Contract’ tab on the VIDT Datalink page.
2. Select the ‘Read Contract’ subtab.
3. Access the ‘allowance’ function (option 1).

Note that for this verification, connecting your wallet is not necessary.

- In the ‘owner’ field, enter your personal wallet address.
- For the ‘spender’ field, use the Swap contract's address: 0xfba915a2765dfc34dc0e19c0d63ff715264d36d3.

After filling these in, click on 'query'. The information displayed will confirm the Allowance setup for your transaction. It will look something like this:

## Step 3: Swap transaction

Having granted the VIDT Datalink to DAO Swap smart contract the necessary permission to handle your VIDT Datalink tokens, the next step is to execute the swap:

1. Visit the VIDT Datalink to DAO Swap smart contract page.
2. Navigate to the ‘Contract’ tab.
3. Select the ‘Write Contract’ subtab.

To proceed with the swap process, you'll need to use the 'swap' function (number 7). If your wallet is not currently connected, reconnect it following the same steps as before. there are no additional settings to configure for the 'swap' function.

To execute the swap function, simply click the ‘Write’ button. Upon clicking 'Write', a popup should appear in your wallet prompting you to confirm the transaction. This confirmation step is crucial for finalizing the swap. The popup will typically display details of the transaction for your review and approval.

If you encounter errors related to gas price estimation, or if there's an error message concerning the smart contract during the swap process, it's advisable to revisit the Allowance setup. Often, these types of issues stem from an incorrect allowance configuration. Here's what you should do:

1. Double-check the Allowance: Ensure that the allowance you've set for the VIDT Datalink to DAO Swap smart contract correctly reflects the number of VIDT Datalink tokens you wish to swap.
2. Verify the Allowance Setup: Use the Ethereum Token Approval tool or the VIDT Datalink smart contract's 'allowance' function to confirm that your personal wallet and the Swap contract's address are correctly registered.

Correctly setting up the allowance is a crucial step for the swap transaction to proceed smoothly, so it's important to ensure that this has been done properly.

Similar to the other transactions done in this guide, you can monitor the status of your swap transaction:

1. Click on the ‘view your transaction’ button. This will redirect you to the transaction status page on Etherscan.
2. Check the transaction Status: If it's marked as ‘Success’, it indicates that the transaction has been executed successfully.

Upon a successful transaction, you will have successfully exchanged your VIDT Datalink tokens for VIDT DAO tokens. This means you are now the proud owner of VIDT DAO tokens, having completed the swap process.

Well done!