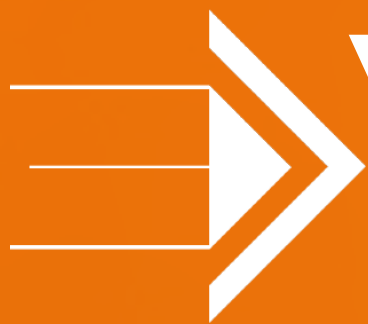




NEYX



WHITEPAPER

CROSS-LINK ORACLES™

**Bridging Real World Assets and Blockchain for Compliance,
Cost-Efficiency, and Universal Access**

MARCH 2024

neyx.io



DISCLAIMER

This Neyx Whitepaper is provided for informational and educational purposes only. It does not constitute an offer to sell or purchase tokens or securities. Neyx does not intend to engage in any token sale or securities offering, nor does it promote or encourage such activities.

Neyx tokens are not being offered to or intended for United States citizens or residents. Any mention of tokens in this whitepaper is for illustrative and descriptive purposes only.

Please note that Neyx tokens are not classified as securities. They are designed for specific use within the Neyx ecosystem and are not intended for speculative investment purposes. The primary purpose of Neyx tokens is to facilitate access and participation within our platform and its services.

Cryptocurrency and blockchain-related projects are subject to complex regulatory environments, and these regulations may vary from one jurisdiction to another. It is essential for potential participants to understand the legal and regulatory requirements specific to their jurisdiction before considering any involvement with Neyx or similar projects.

The information contained in this whitepaper is subject to change without notice and is provided "as is" without any express or implied warranty of any kind. Neyx makes no representations or warranties regarding the accuracy, completeness, or suitability of the information provided herein.

Neyx disclaims any liability for any direct or indirect damages or losses resulting from the use of or reliance on the information contained in this whitepaper.



ARTIFICIAL INTELLIGENCE

Utilization of Artificial Intelligence for Linguistic Accessibility

In our commitment to making the contents of this whitepaper accessible and easily understandable to a broad audience, we have employed the use of OpenAI's ChatGPT for syntax correction and linguistic optimization. This decision was driven by our goal to ensure that the document is clear, concise, and accessible to all, particularly to our stakeholders in English-speaking countries.

The ideas and concepts presented in this document are original and stem from over eight years of deep-seated experience and expertise in blockchain technology. They are further enriched by an extensive understanding of the market and its ecosystem.

Utilization of Midjourney for Visual Content

In the spirit of full transparency and to ensure the highest quality of visual presentation within this document, we have utilized Midjourney for the creation of images.



NEYX



CROSS-LINK ORACLESTM REAL WORLD ASSETS & THE BLOCKCHAIN ECONOMY.

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Cross-Link Oracles: Pioneering the Seamless Integration of Real World Assets into the Blockchain Economy

At the time of writing this white paper, we stand on the brink of what may be one of the most significant adoption cycles in blockchain history, a phase now commonly referred to as *Real Web3*. This surge is driven by the influx of institutional players into the market, a regulatory environment that is increasingly recognizing the existence of digital assets, and the gradual integration of Real World Assets (RWA) into the blockchain economy, from Decentralized Finance (DeFi) to the tokenization of tangible assets.

INTRODUCING NEYX



Bridging Real World Assets and Blockchain for Compliance, Cost-Efficiency, and Universal Access

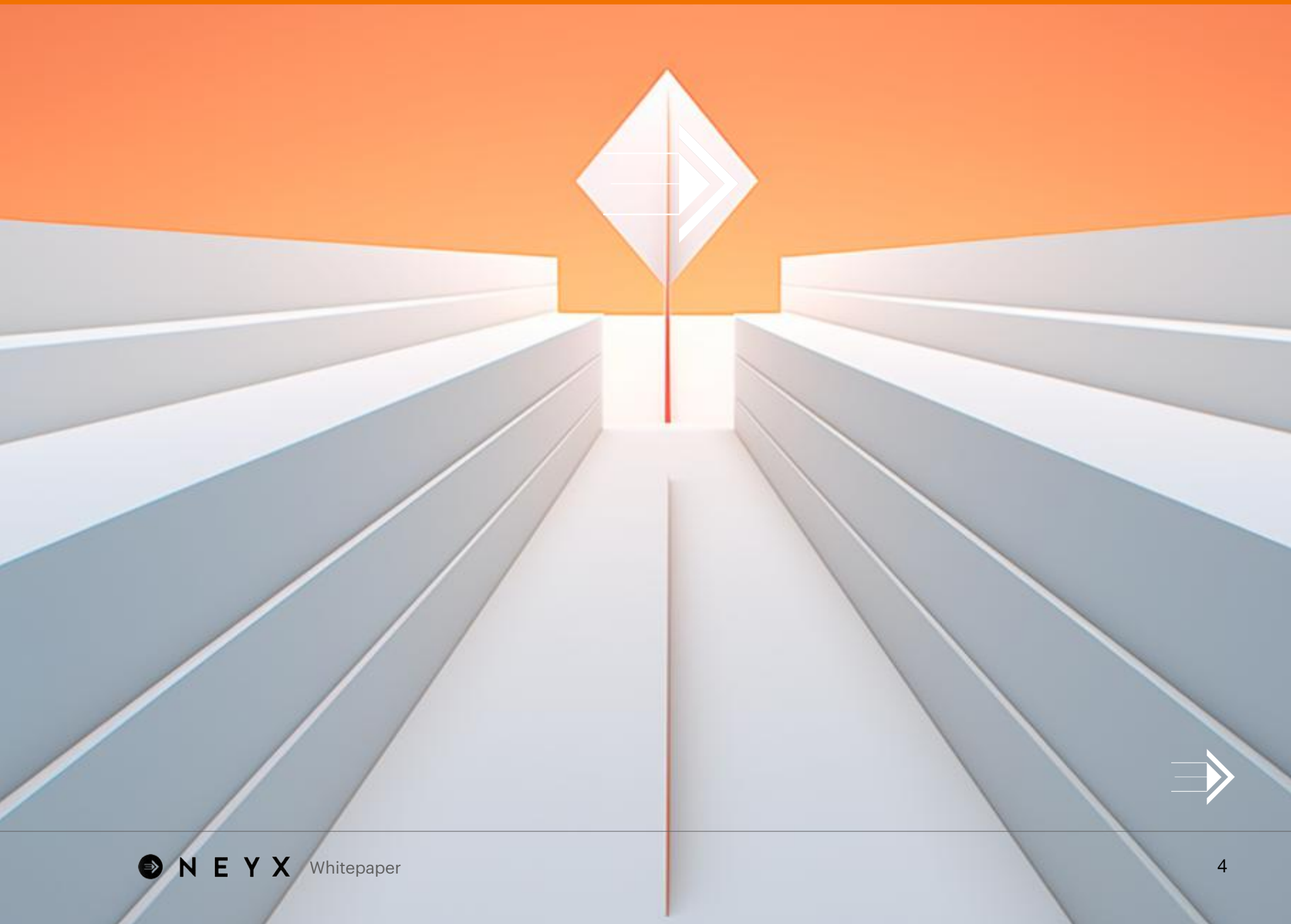
The aim of this white paper is to showcase how a new breed of oracles, which we have named Cross Link Oracles, could facilitate the seamless transition of Real World Assets into the blockchain realm.

We will explore how these oracles serve to:

- Ensure compliance,
- Minimize infrastructure costs,
- Provide interoperability and accessibility to businesses of all scales.

This white paper endeavors to argue that the widespread adoption of this cycle will be made possible through agile oracles, enabling any enterprise, business, or institution to manage its Real World Assets within the blockchain at reduced infrastructure costs and through the use of APIs.

AN UPCOMING REVOLUTION



HISTORY



A Historical Odyssey of Blockchain: Three Revolutions and Beyond

Since the publication of the Bitcoin white paper in 2008, the world of blockchain and cryptocurrencies has witnessed three significant revolutions that have sparked exceptional growth cycles.

The first revolution was marked by the inception of Bitcoin, which introduced the concept of a decentralized, peer-to-peer digital currency. It challenged traditional financial systems, emphasizing transparency and security through its groundbreaking blockchain technology. Bitcoin's emergence set the stage for a surge in interest and investment in the broader crypto space.

The second revolution came with the diversification of cryptocurrencies beyond Bitcoin. Altcoins and various tokens began to emerge, each with unique use cases and features. The Initial Coin Offering (ICO) boom of 2017 exemplified this era, showcasing how blockchain technology could fund innovative projects and businesses in new and unconventional ways.

The third revolution unfolded with the rise of smart contracts and decentralized finance (DeFi). Ethereum, a major player in this evolution, introduced programmable contracts that enabled a wide range of financial applications, including lending, trading, and decentralized exchanges. Additionally, the advent of non-fungible tokens (NFTs) has redefined ownership and provenance in the digital realm, further expanding the blockchain's scope.



The Paradox of Trust and Trustless Systems

In decentralised blockchain systems, the term “trustless” is often used to describe the ability of the system to function without requiring participants to trust one another. Instead, trust is placed in the cryptographic and algorithmic methods that underpin the technology. In traditional centralised systems, trust is often vested in centralised entities or authorities, such as banks, governments, or corporations.

In contrast, in decentralised systems, the algorithm, protocol, and network of participants collectively ensure the integrity and functionality of the system without requiring a trusted third party. The paradox stems mainly from the necessity of trust in the underlying technology, protocols, algorithms, code or governance and the many instances where that trust was breached. In short, regardless of the technological framework, the human element is always involved, whether in development, decision-making, or system updates. Humans can be fallible, biased, or just plain malicious.

Apprehending and methodically addressing the paradox is imperative for efficiently mitigating risk within decentralised systems, particularly given the discernible positive correlation between the valuation of digital assets and the degree of trust conferred upon it by users and ecosystem participants. This correlation not only establishes a foundational basis for understanding asset valuation dynamics but also serves as a critical parameter in devising strategic frameworks for risk management, policy formulation, and technological advancement within decentralised digital asset ecosystems.

Finding a way to mitigate the paradox becomes indispensable in fostering robust, secure, and resilient decentralized systems, thereby ensuring sustainable growth and stability within the burgeoning digital economy



The Dawn of a Transformative Revolution: Confluence of Regulation and Innovation

Now, we stand on the cusp of a new and potentially even more transformative revolution.

The inception of this new revolution is well underway, propelled by the influence of two formidable economic dynamics.

The first centers on regulatory challenges and the emergence of pioneering legal frameworks. This encompasses the establishment of global-level regulations, the formulation of compliance standards, the implementation of KYC (Know Your Customer), and AML (Anti-Money Laundering) procedures within the blockchain realm, in addition to a keen focus on issues related to privacy and anonymization.

The second is rooted in innovation, specifically, the cultivation of value within a multi-chain environment. This extends to the decentralization of the internet itself and the development of scaling and sustainability solutions that are integral for accommodating mass-market adoption.



Trust as the Keystone for Stable Value

The Shield of Trust in Times of Crisis

In times of economic and financial turmoil, the stark contrast between digital and non-digital assets becomes vividly apparent. Digital assets, while celebrated for their flexibility and adjustability, carry a hidden risk – the irreversible collapse of their value. This article sheds light on the significance of trust and transparency, offered by blockchain technology, as the ultimate shield against such adversities.

Contrasting Flexibility and Adjustment Capabilities

Digital assets have long been praised for their adaptability during crises. Traditional assets often grapple with bureaucracy and slow response times, while digital assets can swiftly pivot to meet new demands. However, it is essential to understand that the malleability of digital assets comes at a cost. Value collapse in the digital realm is irreversible, which can lead to substantial financial losses. There are instances where non-compliance with established regulations resulted in severe legal and reputational damages.

The Shield of Trust

Blockchain technology, with its inherent immutability and transparency, can act as a shield of trust during tumultuous times. By instilling practical trust in the ecosystem, blockchain stabilizes and safeguards assets, preventing arbitrary fluctuations. Trust, fostered through blockchain, can potentially mitigate the lightning-fast capital flight and value erosion experienced in the digital asset domain.

In conclusion, the juxtaposition of flexibility and value preservation between digital and non-digital assets serves as a crucial lesson for investors and stakeholders. Blockchain emerges as a powerful tool, enabling trust, transparency, and security. In a world marked by economic uncertainties, this shield of trust can help maintain stability and resilience in the face of financial crises.

CREATE, CERTIFY, EXTRACT VALUE





Governance is necessary, not because
man is naturally bad...but because man
is nature **more individualistic than**
social.

- *Thomas Hobbes*

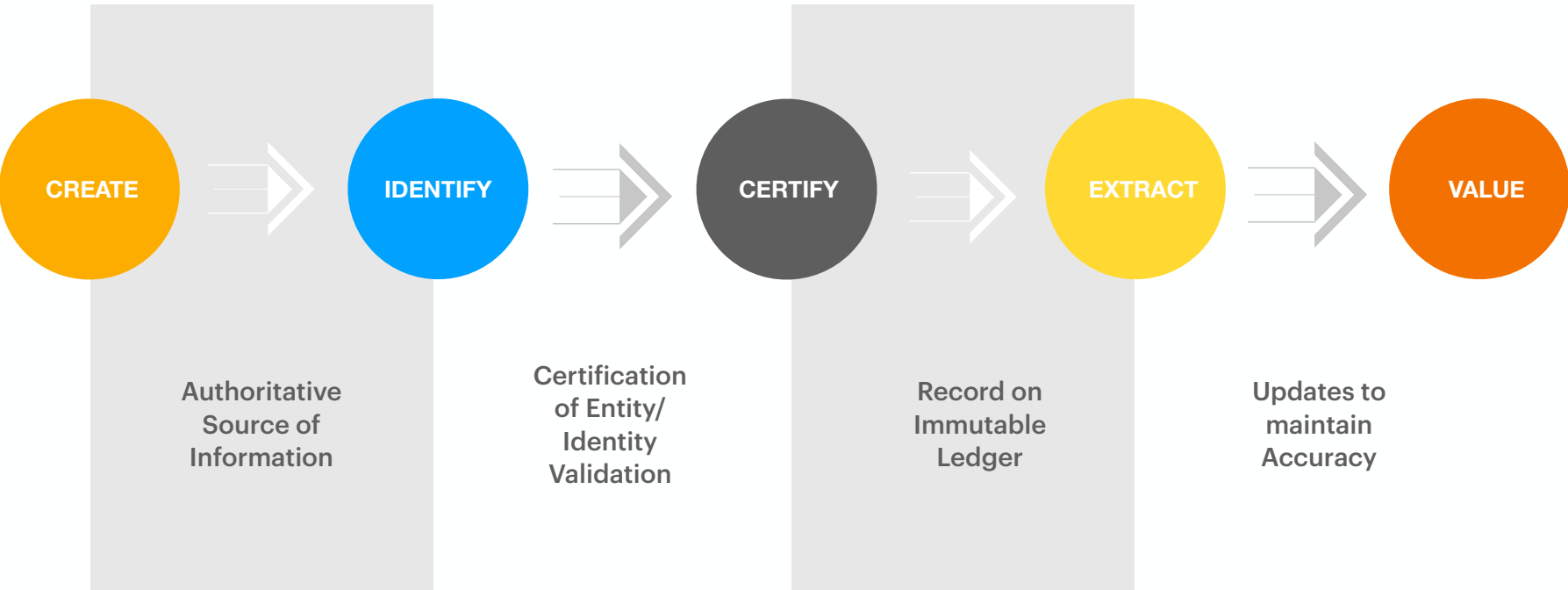


Foundational Module: Understanding Value Creation Through Certifying Oracles and Entity Validation.

To understand how value creation occurs in our model, it is important to elucidate how a certifying oracle functions, particularly with the added specificity of entity validation.

CERTIFYING ORACLE

DATA COLLECT CERTIFYING RECORDING UPDATING



This model can be regarded as the foundational module from which all the use cases we will describe stem.

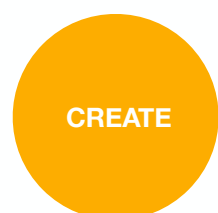
CREATE VALUE



Value Creation Framework.

This foundational process serves as the linchpin for all subsequent use cases we will expound upon, elucidating how our model's versatility and efficacy translate into real-world applications.

Description of the Creation of Value



1. Authoritative Source of Information: At the top of the diagram is the "Authoritative Source of Information," which signifies that the data originates from a trusted and authoritative entity. This source is highly reliable and carries authority over the data.



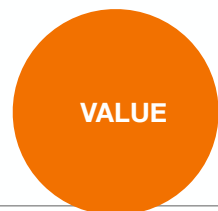
2. Certification and Identity Validation: Data from the authoritative source of information is directed to the "Certification and Identity Validation" process. This step is crucial to ensure the reliability of information and to validate the identity of the source or user submitting the data. Various authentication methods are used, such as biometric authentication, multi-factor authentication, or validation of a private digital key.



3. Recording: Once the data is certified as accurate and the identity is validated, it is recorded on a blockchain or an immutable ledger. This ensures transparency and traceability of the certified information.



4. Trigger Events: The oracle can be configured to trigger "Events" based on certified data and validated identity. For example, it can activate smart contracts or specific actions when an authenticated identity from an authoritative source submits particular data.



5. Update: Certifying oracles need regular updates to maintain data accuracy and the security of validated identities. Updates may include verification of new data or enhanced authentication procedures.

With the addition of the authoritative source of information, the diagram illustrates how a certifying oracle, with identity validation, operates in a highly secure and trusted environment, where the data source carries significant authority over the data. This is crucial for applications where data integrity and authenticity are paramount.



Regulatory challenges and legal frameworks: The imperative of compliance.

The world of blockchain and cryptocurrencies has reached a pivotal moment in its evolution. This juncture is characterized by the confluence of two powerful forces: regulation and innovation. These forces are reshaping the blockchain landscape, promising a transformative revolution of unprecedented scale.

On one hand, the imperative of regulation has gained prominence. Governments and international bodies are acknowledging the need for a structured regulatory framework. The focus is on establishing standards for compliance, Know Your Customer (KYC), Anti-Money Laundering (AML) procedures, and addressing concerns related to privacy and anonymization. This regulatory drive seeks to balance the inherent qualities of blockchain with the necessity of maintaining trust and security within the ecosystem.

On the other hand, innovation continues to thrive within the blockchain space. The creation of value within a multi-chain environment, the decentralization of the internet itself, and the development of scaling and sustainability solutions are pushing the boundaries of what is achievable. These innovations are poised to usher in a new era of blockchain adoption on a mass scale.

The dawn of this revolution is marked by a dynamic interplay between regulation and innovation. It promises to redefine the landscape of blockchain, leading to exciting opportunities and new challenges for the future.



Enabling the concept of secure environments, containing only certified and trusted assets and users

Regulatory compliance has emerged as a pivotal component of value creation. Success now hinges on those who embed regulatory adherence into their business models, thereby enriching the process of value creation. NEYX introduces a pioneering paradigm where compliance isn't just seamlessly integrated into the value generation process, but also extends its impact to participating companies, enterprises, and professionals.

Those engaged in this certification model not only ensure the integrity of transactions and operations within the blockchain but are also rewarded, partaking in a share of the value they contribute to creating.

NEYX's proposed model goes far beyond the financial industry and DeFi (Decentralized Finance). It is universal and adaptable to all industries that require reliable validation and certification. Whether in agriculture, healthcare, construction, automotive, retail, or any other sector where authenticity, compliance, and transparency are essential, the NEYX model can be deployed to enhance trust, improve quality, and create value.



Simplifying Gatekeeping and Asset Certification

What makes this model truly unique is that the certifying entities are incentivized to carry out the certification. This means that stakeholders, whether service providers, professionals, or businesses, are motivated by tangible benefits to ensure and certify compliance. This incentive for certification strengthens the commitment to rigorous standards while fostering ongoing collaboration and validation, which is beneficial for the entire industry.

Within our model, four key components are intricately linked to certification:

- 1 - The existence of a certifying domain name, from which we derive the names of brands, certifying entities, labels, and external sources within the blockchain. This name serves as an umbrella, enabling the designation of underlying addresses. All addresses associated with this name are effectively linked to it.
- 2 - The introduction of the identity of the certifying entity, be it a legal entity or an individual, through AML or KYC data. The certificate is then anonymously and cryptographically transmitted on the blockchain.
- 3 - A certifying oracle that validates and certifies the participants in the blockchain as well as their transactions.
- 4 - A value redistribution module that ensures rewards are distributed among the ecosystem's participants who have contributed to the certification process.

EXTRACT VALUE



To grasp how value is generated, consider the example of a KYC (Know Your Customer) provider who will now create a certificate on the blockchain confirming that an address has been verified and that the individual associated with that address indeed exists. In the model we present, the KYC verifier will now be incentivized each time a KYC is recorded on the blockchain or when a verification is conducted within the chain.

The extraction of value generated by the certifier occurs within the chain through an integrated redistribution module. This redistribution module plays a vital role in enabling the fair and transparent distribution of value created by the certifier among the stakeholders of the chain. It plays a critical role in ensuring fairness and trust within the ecosystem by guaranteeing that the generated value is allocated fairly and in accordance with the rules and contracts established within the chain.

SOLUTION AND USE CASES



SOLUTION



Once providing a comprehensive description of our solution, we can proceed to delineate the specific use cases within the realm of certified oracles. It's worth noting that the versatility and applicability of certified oracles are such that they have the potential to be advantageous across a wide spectrum of industries within the traditional economy. In fact, it is our belief that nearly every sector of the traditional economy stands to gain from the integration of certified oracles and the synergistic token economy that accompanies them.

These technologies offer a unique and robust framework for enhancing trust, transparency, and automation in various business processes. They also have the capacity to streamline complex transactions and decision-making while reducing the need for intermediaries. Nonetheless, in the interest of brevity and clarity in presenting these use cases, we may selectively omit certain industries. This is not indicative of their lack of relevance but rather an acknowledgment of the vast scope of potential applications. Our intention is to offer a focused examination of use cases that hold the greatest promise and potential for significant impact.

USE CASES



ACCOUNTING & FINANCIAL MANAGEMENT

Automated Audit and Financial Reporting:

- **Use Case:** Certified oracles can automate the auditing process by validating financial data and transactions.
- **Impact:** This ensures the accuracy and transparency of financial reporting, reduces the risk of errors or fraud, and streamlines the auditing process.

Real-Time Transaction Verification:

- **Use Case:** Certified oracles can verify financial transactions in real-time, ensuring compliance with accounting standards and regulations.
- **Impact:** This provides instant validation of financial transactions, reduces the risk of fraudulent activities, and helps in maintaining financial transparency.

Smart Contract-Based Accounting and Payments:

- **Use Case:** Certified oracles can be integrated into smart contracts to automate accounting processes, such as payroll, invoicing, and expense tracking.
- **Impact:** This reduces the administrative burden of accounting tasks, ensures accuracy, and enables transparent, automated financial management.

USE CASES

LABELS & CERTIFICATIONS



Product Certification Verification:

- **Use Case:** Certified oracles can verify and validate product certifications, such as organic, Fair Trade, or energy efficiency labels.
- **Impact:** This ensures that products bearing these certifications truly meet the specified standards, promoting consumer trust and informed purchasing decisions.

Food Safety and Origin Verification:

- **Use Case:** Certified oracles can verify the safety and origin of food products, particularly for organic, non-GMO, or region-specific labels.
- **Impact:** This enhances food safety and traceability, assuring consumers that products align with their desired labels and certifications.

Green Building and Energy Efficiency Certification:

- **Use Case:** Certified oracles can validate the green building and energy efficiency certifications of properties or buildings.
- **Impact:** This ensures the accuracy of certification claims, supports sustainability goals, and allows buyers or renters to make eco-conscious choices.

USE CASES

SOCIAL MEDIA

Content Verification and Authenticity:

- **Use Case:** Certified oracles can be used to verify the authenticity of content, including images, videos, and articles shared on social media platforms.
- **Impact:** This helps in combatting the spread of fake news and deepfake content by providing users with a trust indicator for the content they encounter. It enhances the credibility and reliability of the platform.

User Identity and Verification:

- **Use Case:** Certified oracles can verify user identities, ensuring that profiles are genuine and belong to real individuals or entities.
- **Impact:** This reduces the prevalence of fake or impersonated accounts on social media, enhancing user trust and security while mitigating issues related to online identity theft.

Advertising and Influencer Campaign Validation:

- **Use Case:** Certified oracles can validate the accuracy and performance of advertisements and influencer marketing campaigns.
- **Impact:** This ensures that advertisers and brands receive accurate data on the reach, engagement, and effectiveness of their campaigns, contributing to transparency and accountability in the social media advertising space.

USE CASES

GAMING



Gaming NFT Verification:

- **Use Case:** Certified oracles can verify the rarity and uniqueness of gaming non-fungible tokens (NFTs), which represent collectible in-game items.
- **Impact:** This builds trust among collectors and investors, ensuring that NFTs are authentic and rare, thereby increasing their value in the gaming NFT marketplace.

In-Game Asset Authentication and Ownership:

- **Use Case:** Certified oracles can verify the authenticity and ownership of in-game assets, such as skins, weapons, and virtual real estate.
- **Impact:** This ensures that players have legitimate ownership of their in-game items, reduces fraud, and provides a secure marketplace for buying, selling, and trading virtual assets.

Esports Match Result Validation:

- **Use Case:** Certified oracles can validate the results of esports matches, including scores, winners, and game statistics.
- **Impact:** This prevents match-fixing and ensures fair competition by providing tamper-proof results, enhancing the integrity of esports tournaments and betting platforms.

USE CASES

DEFI



Remittances and Cross-Border Payments:

- **Use Case:** Certified oracles can be used to validate cross-border remittances and payments, ensuring transparency and compliance with local regulations.
- **Impact:** This can reduce the cost and time associated with cross-border transactions, improving financial inclusion and access to remittances for individuals and businesses in developing countries.

Agricultural Finance and Supply Chain Funding:

- **Use Case:** Certified oracles can facilitate the disbursement of loans and financing for smallholder farmers in developing countries, automating fund release based on crop performance.
- **Impact:** This promotes sustainable agriculture and economic development by providing farmers with access to much-needed capital for their operations.

Decentralized Microfinance and Savings:

- **Use Case:** Certified oracles can support decentralized microfinance and savings platforms, automating the distribution of loans and interest payments.
- **Impact:** This enables individuals in underserved areas to access microloans, build savings, and participate in economic development and financial inclusion.

USE CASES

ARTIFICIAL INTELLIGENCE



Data Quality Verification:

- **Use Case:** Certified oracles can be employed to verify the quality and accuracy of training data used for machine learning models.
- **Impact:** This ensures that AI models are trained on reliable and high-quality data, reducing biases and errors and improving the performance and fairness of AI.

AI Model Audit and Certification:

- **Use Case:** Certified oracles can audit and certify AI models for specific tasks or industries, ensuring they meet predefined standards or regulations.
- **Impact:** This provides third-party validation of AI model performance, ethics, and compliance, increasing trust in AI solutions and facilitating their adoption.

Intellectual Property Protection:

- **Use Case:** Certified oracles can be used to validate the ownership and intellectual property rights associated with AI algorithms and innovations.
- **Impact:** This safeguards AI developers' rights and intellectual property, encouraging innovation and providing a secure environment for AI research and development.

USE CASES

INSURANCE

These examples demonstrate how certified oracles can enhance data verification and automation in the insurance industry, leading to more accurate and transparent claims processing, personalized policies, and innovative insurance products.

Weather-Indexed Insurance Policies:

- **Use Case:** Certified oracles collect and verify weather data, such as rainfall levels or temperature, from trusted sources.
- **Impact:** Insurers can offer weather-indexed insurance policies for agriculture or travel. When the weather conditions specified in the policy trigger, the insured receives automatic compensation. Certified oracles ensure the accuracy of weather-related claims.

Blockchain-Based Parametric Insurance:

- **Use Case:** Certified oracles monitor external data sources, such as earthquake sensors or hurricane tracking systems.
- **Impact:** In parametric insurance, predefined events trigger automatic payouts. Certified oracles validate these events, ensuring transparent and trustless claims processing in cases of natural disasters or other covered incidents.

Usage-Based Insurance for Vehicles:

- **Use Case:** Certified oracles collect data from telematics devices installed in insured vehicles, verifying factors like speed, location, and driving behavior.
- **Impact:** Insurers can offer usage-based auto insurance where premiums are adjusted based on real-time driving data. Certified oracles ensure the integrity of this data, encouraging safer driving practices and fair pricing for policyholders.

USE CASES

REAL ESTATE



Validation of Property and Transactions:

- **Use Case:** Certified oracles can be used to validate property ownership and related transactions, such as sales or rentals.
- **Impact:** This enhances trust and transparency in real estate transactions. Buyers, sellers, and real estate agents can access verified data about property and transactions.

Management of Rentals and Lease Agreements:

- **Use Case:** Certified oracles can be used to manage lease agreements and ensure that lease terms are adhered to.
- **Impact:** This facilitates automated management of lease agreements, including rent payments and security deposit handling, while reducing disputes and offering transparent traceability.

Real Estate Investment Trusts (REITs):

- **Use Case:** Certified oracles validate rental income and property performance data, such as occupancy rates and lease agreements.
- **Impact:** Investors in REITs can rely on trusted data to make investment decisions. Automating dividend distributions and investment terms using smart contracts backed

USE CASES

ENERGY



Renewable Energy Production Monitoring:

- Use Case: Certified oracles aggregate and validate real estate data from various sources, including property sales, local market trends, and assessment data.
- Impact: Real estate professionals and property buyers can use this validated data for property valuations, appraisals, and market analysis. It helps in making informed decisions about property purchases, sales, or investments.

Energy Grid Management:

- Use Case: Certified oracles provide real-time data on energy grid conditions, including load, supply, and transmission line statuses.
- Impact: Grid operators can make data-driven decisions to balance supply and demand, improve grid reliability, and prevent blackouts. This enhances the efficiency and stability of the energy grid.

Smart Contracts for Energy Trading:

- Use Case: Certified oracles validate energy transactions between producers and consumers in peer-to-peer energy trading platforms.
- Impact: Smart contracts execute automatically when certified oracles confirm the completion of energy transactions. This promotes decentralized energy trading and allows individuals and businesses to buy and sell clean energy directly.

USE CASES

NON PROFITS

Donation Verification and Transparency:

- **Use Case:** Certified oracles can verify and validate donations made to non-profit organizations, ensuring that the funds reach their intended destinations.
- **Impact:** This enhances donor trust by providing transparency in the allocation of funds, reducing the risk of mismanagement, and increasing accountability in the non-profit sector.

Impact Measurement and Reporting:

- **Use Case:** Certified oracles can be used to track and validate the real-world impact of non-profit initiatives and projects.
- **Impact:** This enables accurate measurement and reporting of the outcomes achieved by non-profit organizations, enhancing their ability to showcase their positive contributions and attract more support.

Supply Chain and Aid Distribution Verification:

- **Use Case:** Certified oracles can validate the authenticity and transparency of supply chain operations in humanitarian efforts, including the distribution of aid and resources.
- **Impact:** This helps prevent fraud, corruption, and inefficiencies in the distribution of aid, ensuring that resources effectively reach those in need.

A MODULAR & SCALABLE ECONOMY





A NEW ERA OF ECONOMICS

As mentioned in the first section of our white paper, we stand on the threshold of a new era. Emerging regulations surrounding crypto-assets and the imperative to authenticate both entities and transactions have now taken on critical significance. In this context, an economy built around certified oracles emerges as the solution to the growing demand for transaction reliability and certification. We find ourselves on the cusp of a future where validation is not only desirable but also the standard.

Certainly, here's an updated version that includes the modularity and scalability of the token economy based on the number of certifying actors, the number of users per actor, and the number of certifications performed by oracles:

Token Economy at the Core of Value Creation

A fundamental principle of our Token Economy is that the entire value-building process within the chain revolves around certified oracles.

In most blockchain ecosystems, inflation and chain turnover are distributed among validators and chain stakers. However, in reality, actors contributing to the chain are not adequately rewarded.

In our unique and entirely original model, it is the certifying actors who receive rewards. Here's how it works: Inflation is distributed not only among validators and stakers but also among all certifying dApps and certified oracles.

This uniqueness sets our chain apart as one of the very few where the token economy incentivizes actors to engage in more certification, enhance transparency, and increase validation and transaction compliance.

Moreover, our token economy is highly modular and scalable, adapting to the number of certifying actors, the quantity of users per actor, and the volume of certifications performed by oracles. This adaptability ensures that our ecosystem can expand and evolve in response to changing demands, making it a robust and future-proof solution for the blockchain space.

This approach redefines the dynamics of value creation within the blockchain space, placing certification, transparency, and compliance at the forefront of our ecosystem's growth and success.



Description of the Model

Compensation for Certified Oracles:

In the Neyx ecosystem, certified oracles play a crucial role in data verification and certification. To encourage their participation and ensure the quality of services, they are fairly compensated. Compensation is based on a dynamic model that takes into account the number of users and network activity. Here's how it works:

1. Certification Pricing: Whenever a certified oracle performs data certification, they receive compensation in Neyx. This pricing is based on the complexity of the certification, the volume of data to be verified, and the required level of accuracy.

2. Incentives for User Engagement: Certified oracles are encouraged to promote the use of the Neyx ecosystem. The more active users requesting certifications, the more opportunities certified oracles have to generate income. They receive additional incentives based on the number of active users and certification demand.

3. Transaction Fee Sharing: When certification is performed, a portion of the transaction fees associated with that certification is allocated to the involved certified oracles. This serves as an additional source of income for active validators.

4. Staking and Rewards: Certified oracles can also participate in staking by using their Neyx to secure the network. In return for their commitment and validation services, they receive rewards in Neyx.

The goal of this compensation model is to create strong incentives for certified oracles to maintain high certification standards and promote the adoption of the Neyx ecosystem. As the number of users and certification requests increases, certified oracles have more opportunities to generate income, thereby encouraging their active participation in the ecosystem. Ultimately, this contributes to maintaining the quality and reliability of certification services within the Neyx ecosystem.

A more detailed version of this compensation model will be described in a dedicated white paper, providing a comprehensive overview of the mechanisms and incentives within the Neyx ecosystem.

ARCHITECTURE & TECHNOLOGY





Cosmos and Beyond.

The Cosmos Software Development Kit (SDK) plays a pivotal role in advancing secure certification technology within the ever-expanding blockchain landscape. Its modularity and flexibility enable developers to tailor custom blockchains for specific certification needs, fostering highly specialized and interconnected systems. Security is paramount in certification, and Cosmos's robust security model ensures tamper-resistant solutions. Furthermore, Cosmos's interoperability capabilities facilitate multi-chain certification, streamlining data validation across diverse blockchain networks. This white paper explores why the Cosmos SDK is the optimal choice for creating advanced certification technology, emphasizing its unique advantages and pertinence in the dynamic blockchain ecosystem.

COSMOS SDK

Interoperability

Inter-Blockchain Communication (IBC): Cosmos is designed with a focus on interoperability. The IBC protocol allows different blockchains to communicate and transfer assets among each other. It also enables easy cross-chain functionalities like a giant API ready to be natively tapped in from any COSMOS project.

Speed and Energy Efficiency

Delegated Proof of Stake (DPoS)

- **Quick Finality:** DPoS allows for faster block times and transaction finality. Validators are chosen by NEYX token holders to create blocks, and due to a smaller set of validators, consensus can be achieved more quickly.
- **Energy Efficiency:** DPoS is also more energy-efficient than PoW, ensuring that only a fraction of the computational power is expended in the process of achieving consensus.



Certification: Harnessing Immutability, Transparency, and Verifiability through Blockchain

These elements represent fundamental requisites safeguarding the integrity, authenticity, and reliability of any certification process, irrespective of the asset's nature – digital or otherwise. They also define some of the core technological breakthroughs of blockchain technology making this technology an irrefutable choice.

For the certification of assets across a multitude of sectors, from tangible realms like real estate or equity to intangible domains of intellectual properties and licenses. Blockchain technology is not merely a choice but, more pertinently, a crucial step in protecting the reliability and trust of the certification process in a world that increasingly depends on being able to verify authenticity, both digitally and physically.

Interoperability, Innovation, Adaptability and Modularity

"Interoperability" and "Innovation" operate as critical facilitators.

Interoperability bridges technological advancements with seamless functionality across diverse platforms and ecosystems. A universal certification system needs to be interoperable to facilitate seamless transactions, promote assets transferability and integrate cross chains functionalities.

Innovation paves the Path for Future-Ready Solutions with the creation of bespoke blockchain solutions to address specific challenges or requirements within the certification process, such as ensuring compliance, managing different asset types, or facilitating different transaction models.

Adaptability is key as the technological and regulatory landscape evolves, innovative practices enable the blockchain certification process to adapt and align with emerging trends, standards, and user needs, ensuring sustained relevance and compliance.

Modularity is essential when considering the scope of use cases for certification processes where each vertical or sector can be addressed with a specific sets of rules while sharing some common grounds with other processes.

TECHNOLOGY



Customisable Blockchains

- **Optimized Performance:** Cosmos allows for the creation of customized blockchains using the Cosmos SDK. This means that a blockchain can be specifically optimized for a particular use case, ensuring that it operates as efficiently as possible and providing faster transaction processing for specific needs.
- **Customisation**

Blockchain are custom-tailored to specific use cases, potentially providing better performance and a more user-friendly experience.

Since the functionalities are native to the blockchain, they can be more optimized and efficient compared to implementing similar functionality through smart contracts.
- **Ease of Upgradability**

The Cosmos SDK provides mechanisms for facilitating smooth upgrades, allowing developers to update the blockchain's protocol without undertaking network forks, which can be complex and risky.
- **Smart contracts enabled**

Flexibility in Development:

Developers can write smart contracts using high-level programming languages like Rust, offering a robust and secure development framework.

It allows the combination of custom blockchain functionality and smart contract capabilities, providing versatility in application design and deployment.

Rust's focus on memory safety and zero-cost abstractions makes it a suitable choice for developing secure and efficient smart contracts on the Cosmos platform.
- **Vibrant Ecosystem**

Cosmos has a vibrant and resilient ecosystem with hundreds of projects across the entire blockchain landscape.. This network can be a valuable asset when looking for collaboration and integration opportunities. It also possesses one of the largest developers community among other blockchains making team building an easier process than other blockchains as cosmos SDK is also easier to access and with more dedicated developers.

TECHNOLOGY



Modularity

The modularity offered by Cosmos SDK represents a powerful mechanism for developing a universal certification process that can be applied across various sectors. By utilising or creating different modules for each vertical or sector, it creates a structured approach that can address the specific needs and regulatory requirements inherent to each domain.

Modular Design

- Each sector or vertical may have its unique requirements, and the modular design of Cosmos allows developers to create bespoke solutions tailored to those specific needs.

Industry-Specific Modules

- **Finance Module**
Compliance: Ensure that financial transactions and entities adhere to regulatory standards, AML, and KYC procedures.
- zkWallet to maintain financial privacy for ecosystem participants
- **Education Module**
Credential Verification and Institution Authenticity
- **Healthcare Module**
Professional accreditation or research verification
- **Supply Chain Module**
Sustainability Certification by validating the sustainability practices and credentials of entities within the supply chain.
- **Energy Module**
Energy Usage Certification, audit energy consumption and sourcing practices of entities.
- **AI Checking Module**
Facts checking, reputation score, financial scoring, asset certification

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