



<https://alcyontoken.io>

Alcyon: A Comprehensive Ecosystem for Gold Tokenization

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Abstract

This paper delves into the strategic design and functionalities of the Alcyon (ACY) and Bullion Coin (BC) tokens within the Tesor Network, exploring a novel approach to seamlessly integrate digital and tangible assets. The roadmap for ACY unfolds as a comprehensive strategy to address user concerns, emphasizing enhanced security, improved user experience, transparent communication channels, educational initiatives, community feedback integration, and agile development practices. The BC mobile app is presented as a multifaceted tool, providing users with features such as buying and selling physical gold, savings with APR on BC tokens, micro-financing leveraging BC holdings, exchanging ACY to BC, secure and insured transports to 21 countries, and redemption to physical gold at supported locations globally. Moreover, the Tesor Network's transition to Ethereum's Layer 2, utilizing EIP 4844, is explored for transparency purposes. The paper concludes by underscoring the interconnected relationship between ACY and BC, showcasing a unified ecosystem that leverages ACY as the utility token for various transactions, including gas fees, storage charges, and services within the ecosystem, reinforcing a seamless and transparent financial environment within the Tesor Network.

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1 The Challenges

Owning physical gold has long been synonymous with wealth preservation and stability, yet it comes with its own set of logistical hurdles and risks that often pose challenges for consumers. Among them are:

Security Concerns: One of the foremost issues individuals encounter is the need for robust security measures when safeguarding physical gold. Storing gold at home poses risks of theft or loss, compelling many to seek secure off-site storage options, often incurring additional costs.

Transportation Limitations: Acquiring physical gold involves navigating transportation logistics, especially when purchasing from distant locations. Shipping or personally transporting gold can be cumbersome, costly, and potentially risky due to stringent regulations and security measures.

Illiquidity and Accessibility: Liquidating physical gold for immediate cash needs can be slow and cumbersome, particularly in emergency situations. The process often involves locating reputable buyers, potentially facing delays, and incurring additional costs during the selling process.

Lack of Fractional Ownership: Traditional physical gold ownership lacks the flexibility of fractional ownership, making it challenging for individuals with limited financial resources to invest in smaller increments of gold.

Maintenance and Verification: Verifying the authenticity and purity of physical gold holdings requires expertise and can be time-consuming. Additionally, ensuring proper maintenance and protection against wear and tear or environmental factors remains an ongoing concern for holders.

Regulatory Compliance: Adhering to diverse regulatory frameworks, especially when dealing with cross-border transactions, adds complexity and potential legal implications to managing physical gold holdings.

Navigating these challenges inherent in managing physical gold underscores the need for innovative solutions that bridge the gap between the intrinsic value of gold and the convenience of modern, digitized financial systems. This has paved the way for the emergence of gold tokenization platforms, aiming to mitigate these difficulties and provide consumers with accessible, secure, and efficient alternatives for gold ownership and investment.

2 Our Solution

In addressing the challenges outlined above, we present an innovative solution marked by the introduction of the Alcyon Token (ACY), coupled with its private counterpart, Bullion Coin (BC). Our approach stands as a groundbreaking paradigm shift, poised to revolutionize the landscape by offering a dynamic and comprehensive solution to the complexities faced in the current scenario.

The Alcyon Token emerges as the focal point of this transformative initiative, embodying a novel utility token designed to navigate the challenges inherent in the existing system. It serves as a versatile instrument, seamlessly integrating with the intricacies of the financial ecosystem, and unlocking a myriad of functionalities to enhance user experience, governance, and overall participation within the Alcyon ecosystem.

In tandem with the Alcyon Token, we introduce its private counterpart, the Bullion Coin, representing a tangible link between the digital and physical realms. This innovative pairing provides a secure and transparent bridge, allowing participants to engage in seamless transactions backed by physical bullion assets. The Bullion Coin not only introduces a novel approach to digitizing and representing real-world assets but also addresses challenges related to the valuation and exchange of tangible commodities within a blockchain framework.

Together, Alcyon and Bullion Coin form a symbiotic dual-token system designed to seamlessly integrate the worlds of cryptocurrency and tangible bullion assets. ACY, a publicly traded token, operates on the Binance Smart Chain, embodying a utility token within the broader bullion ecosystem. It will be listed on various cryptocurrency exchanges, where its value is subject to market dynamics driven by the principles of supply and demand. ACY serves a multifaceted role, functioning as a means for governance, voting, and facilitating transactions by covering gas and transaction fees within the ecosystem.

In contrast, Bullion Coin (BC) operates exclusively within the private *Tesor Network*, designed explicitly for physical gold transactions between authorized participants¹. The pricing mechanism for BC is meticulously structured, aligning with the prevailing market price of gold and incorporating an additional premium. This premium acknowledges the inherent value associated with the physical representation of bullion assets, providing a transparent and fair reflection of BC's worth beyond the gold market index.

¹ Refer to Appendix A for market participants

The integration of these two tokens in a dual-token strategy addresses scenarios where real-world bullion assets, tangible and valuable, are intricately tied to competitive market prices. ACY's publicly traded nature allows it to serve as a dynamic representation of the broader market sentiment, while BC, confined within the private Tesor Network, focuses on facilitating secure and transparent physical gold transactions.

This comprehensive ecosystem fosters a balance between the dynamic market forces influencing ACY and the intrinsic value of physical bullion assets represented by BC. Participants in the ecosystem gain exposure to both the fluidity of the cryptocurrency market through ACY and the stability and tangibility of bullion assets facilitated by BC. The result is a robust and responsive platform that caters to the diverse needs of stakeholders seeking to engage in both the digital and physical realms of asset ownership and transactions.

3 Alcyon Token

Alcyon (ACY) stands as a versatile utility token within the broader ecosystem, offering a range of functionalities that contribute to the efficient and seamless operation of the Tesor Network. Beyond its role as a publicly traded asset, ACY holds paramount importance in various aspects of network governance, participation, and transaction facilitation.

Primarily, ACY serves as a crucial instrument for voting within the ecosystem. The token's utility extends to enabling participants to actively engage in decision-making processes, ensuring a decentralized and inclusive governance model. This democratic approach empowers stakeholders, allowing them to have a direct impact on the evolution and development of the Tesor Network.

Moreover, ACY takes on the responsibility of covering gas fees within the Tesor Network. As participants engage in transactions or execute smart contracts, ACY becomes the designated means to facilitate these actions by covering associated gas fees. This strategic utilization not only streamlines transactions but also ensures that participants can seamlessly navigate the network without hindrances related to transaction costs.

Furthermore, ACY serves as the preferred mode of payment for services offered within the Tesor Network. Whether it be accessing specialized features, utilizing network resources, or availing various offerings within the private blockchain,

ACY becomes the unit of value exchange. This integration of ACY as the primary medium of payment enhances the cohesiveness of the Tesor Network, providing a unified and standardized mechanism for participants to access and utilize network services.

Alcyon (ACY) emerges as a linchpin within the Tesor Network, operating as more than just a publicly traded token. Its role extends to governance, voting, covering gas fees, and acting as the preferred means of payment for services, thereby contributing to the overall efficiency, transparency, and functionality of the Tesor Network ecosystem. The integration of ACY in these multifaceted capacities ensures that participants have a comprehensive and user-friendly experience within the private blockchain network.

4 Bullion Coin

Bullion Coin (BC) embodies a groundbreaking concept by serving as a digital representation of physical gold, establishing a secure and transparent link between the digital and tangible realms of asset ownership. This innovative coin operates on a pegging mechanism, meticulously mapped at a ratio of 1,000 coins for every 1 gram of gold, ensuring a direct correlation between the digital and physical assets.

The minting process of BC is intricately tied to the actual gold holdings in our storage, as well as the insurance value assigned to all gold physically transported. This dual metric not only ensures that BC maintains its intrinsic value based on the quantity of gold but also incorporates a safety net by considering the insurance coverage for gold during transit. This approach enhances the robustness and reliability of BC, establishing it as a secure and trustworthy representation of real-world gold assets.

Importantly, every BC that is minted is accompanied by a safekeeping receipt securely stored in our vault. This receipt serves as a tangible and verifiable proof of ownership, assuring holders that their digital representation in the form of BC is backed by physical gold securely stored in our facilities. The inclusion of safekeeping receipts adds an additional layer of transparency and accountability to the BC ecosystem, reinforcing the trustworthiness of the digital asset.

In essence, Bullion Coin (BC) not only brings the benefits of digital currency to the world of physical commodities but also establishes a unique and secure relationship between the digital representation and the tangible assets it represents. The meticulous pegging, minting process, and the provision of safekeeping receipts collectively contribute to BC's credibility as a reliable and transparent digital asset pegged to the intrinsic value of physical gold.

4.1 Utility of ACY in Tesor Network

Given that ACY is strategically designed as a utility token within the Tesor Network, it serves as the primary means of transaction and settlement for various services within the ecosystem where Bullion Coin (BC) resides. This alignment ensures a seamless and integrated experience for users, allowing them to utilize ACY tokens for various essential functions and services. The scope of services payable in ACY includes:

1. **Gas Fees (21 ACY):** The utilization of the Tesor Network for transactions incurs gas fees, and these fees are seamlessly settled in ACY tokens. With a fixed rate of 21 ACY, users enjoy a standardized and transparent approach to covering the costs associated with network processing, ensuring a smooth and efficient transaction experience.
2. **Storage Charges for BC (Payable in ACY):** In cases where BC is not saved as part of the savings feature, storage charges become applicable. These charges are calculated and payable in ACY, with the value determined based on the quantity and current market value of the gold stored. This approach ensures that users can conveniently cover storage expenses directly with ACY tokens, simplifying the fee structure and enhancing financial transparency.
3. **Transport Services and Taxes (Payable in ACY):** The comprehensive ecosystem extends to include secure and insured transport services, as well as taxes applicable based on the country and its regulations. Both transport services and taxes are settled in ACY tokens, providing users with a universal and standardized currency for these transactions. This approach not only streamlines the payment process but also ensures compliance with varying regulatory frameworks, offering users a hassle-free and consistent experience.

#	Gold Value Stored in Vault	Storage Charges
1	Up to US \$2 million	1.918% per annum
2	Up to US \$5 million	1.218% per annum
3	Up to US \$10 million	1.118% per annum
4	Up to US \$25 million	1.018% per annum
5	Up to US \$50 million	0.920% per annum

Table 1: Gold Storage Charges

By consolidating these essential services under the umbrella of ACY transactions, the Tesor Network establishes a cohesive and user-friendly environment. Users benefit from the simplicity of a single token for payments, creating a seamless and efficient financial ecosystem within which both ACY and BC coexist. This unified approach further reinforces the utility and versatility of ACY as the central currency governing transactions and activities within the Tesor Network.

4.2 Storage Charges

The assessment of storage charges within the Tesor Network is contingent upon the Bullion Coin (BC) values held by users, particularly when BC is not designated for the savings feature. In such instances, storage charges become applicable and are expressly settled in Alcyon Tokens (ACY), introducing a transparent and user-centric approach to managing the costs associated with storing tangible assets.

The calculation of these storage charges is intricately linked to the current market value of the BC holdings. Users are charged in ACY tokens, with the value dynamically determined by the quantity and prevailing market rates of the gold represented by their BC holdings. This ensures that the storage charges remain directly proportional to the real-world value of the physical gold, fostering fairness and accuracy in the fee structure.

This mechanism not only aligns with the inherent transparency of blockchain technology but also emphasizes the utility of ACY as a functional and versatile token within the ecosystem. By tethering storage charges to the BC values and settling them in ACY, the Tesor Network establishes a seamless and standardized method for users to cover the expenses associated with securing and storing their precious metal assets.

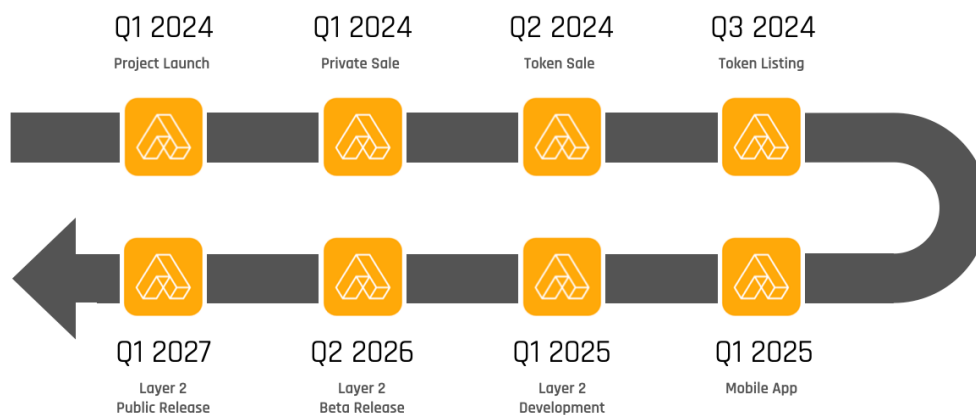


Figure 1: ACY Project Roadmap

5 Project Roadmaps

The project roadmap is intricately designed to surpass the expectations of our user base, introducing a series of developments that cater to diverse and evolving needs within the blockchain ecosystem. It unfolds as a journey of innovation and enhancement, addressing token-specific requirements and ensuring a seamless user experience.

1. **Web3.0 Application for Token-Specific Needs:** To meet the demands of the modern decentralized landscape, the roadmap outlines the development of a cutting-edge Web3.0 application. This platform serves as a centralized hub for users, addressing token-specific needs and providing a comprehensive interface for managing and interacting with the Alcyon Token (ACY) and Bullion Coin (BC). The Web3.0 application incorporates the latest web technologies, ensuring a secure, user-friendly, and feature-rich environment.
2. **Mobile Application for ACY Functionalities:** Recognizing the ubiquity and convenience of mobile devices, a dedicated mobile application is crafted to specifically cater to the functionalities of the Alcyon Token (ACY). This mobile application empowers users with on-the-go access to their ACY holdings, facilitating seamless transactions, governance participation, and other token-specific activities directly from their mobile devices.
3. **Mobile Application for BC Functionalities:** In tandem with the ACY mobile application, a parallel mobile application is developed to cater to the

functionalities of Bullion Coin (BC). This mobile app extends the accessibility of BC, allowing users to manage their gold-related transactions, holdings, and engagements with the Tesor Network, all conveniently accessible through their mobile devices.

4. **Private Blockchain on Tesor Network:** The roadmap includes the establishment of a private blockchain within the Tesor Network. This private blockchain serves as a secure and dedicated environment for gold-related activities, ensuring the confidentiality and integrity of transactions. The Tesor Network’s private blockchain facilitates a tailored experience for users engaging in various gold-related transactions within a controlled and permissioned environment.
5. **Evolution of Tesor Network to Layer 2 Network on Ethereum:** In a strategic evolution, the Tesor Network undergoes a transformation, transitioning to a Layer 2 solution on the Ethereum blockchain. This evolutionary step is designed to amplify scalability, diminish transaction costs, and elevate overall network efficiency. Embracing Layer 2 technology marks a forward-looking approach, empowering the Tesor Network to provide an enhanced, scalable, and cost-effective solution while retaining the security and robustness inherent in the Ethereum blockchain. This evolutionary shift underscores our commitment to continuous improvement and adaptability within the ever-changing landscape of blockchain technology.

It is essential to delve deeper into the rationale behind the transition from the private Tesor Network to the Layer 2 Network on Ethereum, a move driven primarily by a commitment to transparency. This migration leverages the Ethereum Improvement Proposal (EIP) 4844² on the Ethereum Network, emphasizing the need for an open and transparent framework.

EIP 4844 essentially deals with a new transaction format for “blob-carrying transactions” which contain a large amount of data that cannot be accessed by EVM execution, but whose commitment can be accessed. The format is intended to be fully compatible with the format that will be used in full sharding.

By embracing the Layer 2 solution on Ethereum, we aim to enhance the visibility and accessibility of our operations. EIP 4844 provides a standardized approach to achieve greater transparency, aligning with industry best prac-

² More details can be seen at EIP 4844 - Shard Blob Transactions scale data-availability of Ethereum in a simple, forwards-compatible manner.

tices. This move ensures that stakeholders, including users, developers, and the broader community, can readily scrutinize and understand the intricacies of our network.

Transparency serves as a cornerstone in fostering trust within the blockchain ecosystem. The migration to Ethereum's Layer 2 not only aligns our operations with industry standards but also allows for a more comprehensive and open examination of our activities. It establishes a clear and standardized method to communicate our commitment to transparency, reinforcing the integrity of our project within the broader blockchain community.

Furthermore, this migration provides an opportunity to tap into the robust and well-established infrastructure of the Ethereum blockchain. Leveraging Layer 2 solutions enhances the scalability and efficiency of transactions, offering an improved user experience while maintaining the transparency and security that Ethereum is renowned for.

In essence, the decision to migrate to Ethereum's Layer 2, utilizing the EIP 4844, is a strategic move aimed at not only enhancing the technical aspects of our network but also solidifying our commitment to transparency, openness, and alignment with industry standards within the dynamic and ever-evolving landscape of blockchain technology.

Considering the diverse array of requirements our users have, we have meticulously designed a thorough roadmap to effectively tackle and mitigate these challenges. The strategic outline of our project roadmap is as follows:

Q1 2024 - Private Sales: The project kicks off with a strategic Private Sales phase, offering early supporters an exclusive opportunity to participate in the ecosystem. This initial phase lays the foundation for community building, fostering a core group of stakeholders who share a vested interest in the success of the project.

Q2 2024 - ICO, Web3.0 Application: Building on the momentum generated during Private Sales, the project transitions to the Initial Coin Offering (ICO) stage, expanding participation to a broader audience. This phase aims to attract a diverse community of investors and enthusiasts, marking a pivotal step towards achieving widespread adoption and engagement. At the same time, token related Web3.0 functions are to be made available just before the listing of ACY commences.

Q3 2024 - Listing on Exchanges: Following the successful completion of the ICO, the project endeavors to secure listings on prominent cryptocurrency exchanges. This crucial step enhances liquidity, accessibility, and exposure, providing a platform for a wider audience to trade and acquire the Alcyon Token (ACY) and Bullion Coin (BC).

Q1 2025 - Web3.0, Mobile App (ACY, BC), Tesor Network: A major milestone is achieved with the launch of a dedicated native mobile application, facilitating seamless access to both the Alcyon Token (ACY) and Bullion Coin (BC). Concurrently, the Tesor Network takes shape, providing a secure and efficient environment for gold-related transactions within the ecosystem.

Q2 2025 - Development of Layer 2 Tesor Network (EIP 4844): The project focuses on scalability and enhanced performance by initiating the development of Layer 2 solutions for the Tesor Network. Embracing Ethereum Improvement Proposal (EIP) 4844, this phase aims to optimize transaction throughput, reduce latency, and enhance the overall efficiency of the Tesor Network.

Q2 2026 - Beta Release of Tesor Network on Ethereum: A significant leap is made with the Beta Release of the Tesor Network on the Ethereum blockchain. This milestone marks a crucial step towards integrating innovative technologies and features into the network, providing users with an advanced and user-friendly experience.

Q1 2027 - Public Release of Tesor Network: The project reaches its pinnacle with the Public Release of the Tesor Network. This phase signifies the culmination of extensive development efforts, introducing a fully functional and matured blockchain network for gold-related activities. The public release opens the doors to a broader audience, establishing Tesor as a prominent player in the decentralized finance landscape.

This comprehensive roadmap outlines a strategic trajectory for the project, encompassing key milestones, technological advancements, and the progressive development of a robust ecosystem. Each phase is carefully planned to ensure the project's growth, resilience, and alignment with the evolving needs of the blockchain and financial communities.

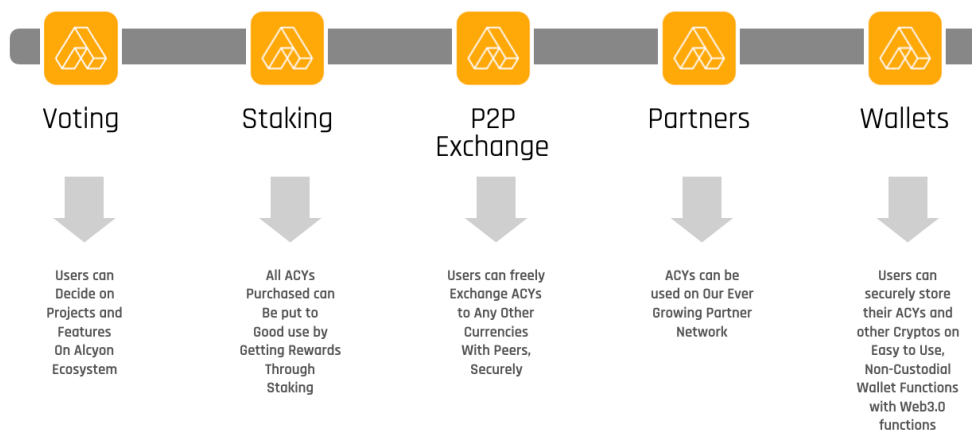


Figure 2: ACY App Functions

6 Mobile App

6.1 ACY Mobile App Functionalities

The mobile app for ACY is designed as a multifaceted and user-centric platform, offering a diverse range of features to empower users within the ACY ecosystem. Here's an in-depth exploration of its key functionalities:

1. **Voting for Ecosystem Improvements:** The mobile app integrates a robust voting system that allows users to actively participate in shaping the future of the ACY ecosystem. Through a user-friendly interface, participants can engage in democratic decision-making processes, voting on proposed improvements, updates, and changes. This inclusive feature ensures that the community has a direct impact on the evolution of ACY, fostering a sense of ownership and involvement.
2. **Staking for Financial Rewards:** Staking functionalities are seamlessly integrated into the app, enabling users to stake their ACY tokens and earn financial rewards in return. This incentivizes users to actively contribute to the stability and security of the network by holding and staking their tokens. The intuitive staking mechanism enhances user engagement while providing a passive income stream for participants.
3. **P2P Exchange for Asset Trading:** The mobile app introduces a peer-to-peer (P2P) exchange feature, empowering users to exchange ACY directly

with stable coins or fiat currencies amongst themselves. This decentralized exchange functionality ensures a seamless and secure trading experience, allowing users to diversify their portfolios or liquidate assets based on their preferences and market conditions.

4. **Ecosystem Partners Integration:** Users can explore and engage with a network of ecosystem partners, including shops, merchants, and services that accept ACY as a form of payment. The app serves as a gateway for users to discover and interact with these partners, promoting a vibrant and interconnected ecosystem. This integration enhances the utility of ACY, fostering real-world use cases and encouraging broader adoption.
5. **Wallet Functionality for Asset Security:** The app includes a comprehensive wallet functionality, providing users with an intuitive and secure means to manage, send, and receive their ACY tokens. The wallet is equipped with advanced security features, including encryption and biometric authentication, ensuring that users have full control over their assets while enjoying a user-friendly experience.

The ACY mobile app is envisioned as a versatile tool that not only facilitates seamless transactions but also empowers users to actively participate in the governance, growth, and diversification of the ACY ecosystem. Through a combination of innovative features, security measures, and ecosystem partnerships, the app aims to provide a holistic and rewarding experience for ACY token holders.

6.2 BC Mobile App Functionalities

The mobile app dedicated to Bullion Coin (BC) is a comprehensive tool designed to provide users with a seamless and versatile experience, bringing the tangible world of physical gold to their fingertips. Here's an in-depth exploration of the key features:

1. **Buy and Sell Physical Gold:** The app allows users to effortlessly buy and sell physical gold directly through their mobile devices. With a user-friendly interface, users can browse, select, and purchase certified gold, offering a secure and convenient means to invest in this precious metal. Conversely, users can sell their physical gold holdings when needed, providing a liquidation option directly from the app.

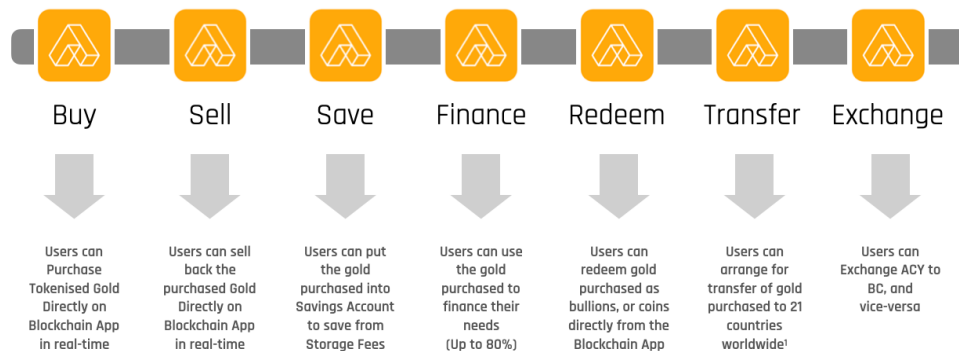


Figure 3: BC App Functions

- 2. Savings with Up to 7% APR on BC Tokens:** The BC mobile app introduces a savings feature that enables users to earn attractive Annual Percentage Rates (APR) on their BC token holdings. By staking or depositing BC tokens into designated savings accounts, users can benefit from interest accrual, encouraging long-term holding and fostering a culture of financial prudence within the BC community.
- 3. Redemption to Physical Gold at Supported Locations Worldwide:** The BC mobile app introduces a convenient redemption feature, allowing users to convert their digital Bullion Coin (BC) holdings into physical gold at supported locations around the world. This seamless redemption process ensures accessibility to physical gold, providing users with the flexibility to choose when and where to redeem their digital assets for tangible precious metal. Supported redemption locations adhere to the highest standards, ensuring a reliable and transparent process for users seeking to convert their digital holdings into physical gold. This feature further enhances the real-world utility of BC, enabling users to enjoy the benefits of both digital and tangible assets with ease and confidence.
- 4. Secure and Insured Transport to 21 Countries Worldwide:** The BC mobile app goes above and beyond by incorporating a secure and insured transport feature for physical gold holdings. Users can leverage this service to have their physical gold securely transported to 21 countries around the world. The transport process is meticulously managed, ensuring the utmost security and adherence to international standards. With comprehensive insurance coverage, users can have peace of mind knowing that their precious metal investments are not only safeguarded but also acces-

sible globally, allowing for a truly borderless and secure gold ownership experience.

5. **Micro-Financing of Up to 80% from BC Tokens Held:** Recognizing the potential for BC tokens as collateral, the app offers a micro-financing feature that allows users to leverage their BC token holdings for loans. Users can secure loans of up to 80% of the value of their BC tokens, providing a flexible and accessible avenue for users to unlock liquidity without parting with their precious metal assets.

6. **Exchange of ACY Tokens to BC:** The app facilitates a seamless exchange process, allowing users to convert their Alcyon Tokens (ACY) to Bullion Coin (BC) directly within the mobile interface. This feature offers users the flexibility to diversify their holdings, shifting between digital assets (ACY) and tangible assets (BC) based on market conditions, investment preferences, or financial goals.

7 Tokenomics

Tokenomics for our ecosystem is intricately designed, leveraging the intrinsic value of gold, insurance coverage, and a meticulous multiplication factor. The foundation of our tokenomics revolves around three key components: the gold stored in our vault, the gold bars for immediate fulfillment of physical trades, and the insurance coverage in USD.

Starting with the gold in our vault, which amounts to 4 tons, we can tokenize this substantial reserve. Additionally, we have 500 kilograms of gold bars dedicated to promptly satisfying physical trades. Adding the USD 50 million insurance coverage into the mix, and considering the current gold price of USD 65.05 per gram, we calculate a total gold equivalent of 5,268,639.51 grams.

Each gram of gold becomes the foundation for our utility token, ACY. With a pegging ratio of 1,000 ACY per gram of gold, we arrive at a total supply of 5,268,639,508.07 ACY. To further enhance the dynamics of our ecosystem, we introduce a multiplication factor of 4x, resulting in a final ACY token total supply of 21,074,558,032.28.

#	Description	Value	Unit
1	Insurance Value	50,000,000.00	USD
2	Converted to Grams of Gold	768,639.51	Grams
3	Gold in Safekeeping	4,000,000.00	Grams
4	Gold in Physical Trades	500,000.00	Grams
5	Total Physical Gold	5,268,639.51	Grams
6	ACY units per gram	1,000.00	ACY
7	Calculated ACY	5,268,639,508.07	ACY
8	Multiplication Factor	4	Times
9	ACY Total Supply	21,074,558,032.28	ACY

Table 2: Gold-Backed ACY Token Formula

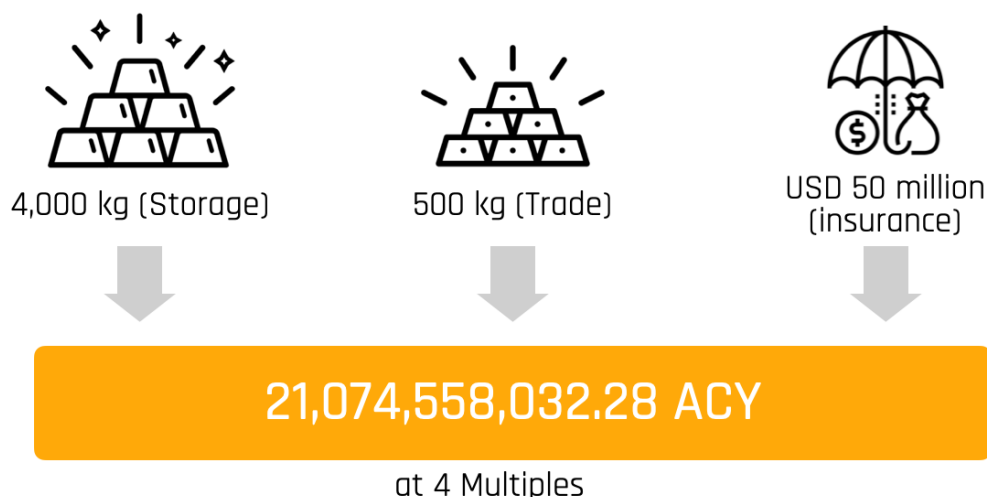


Figure 4: ACY Token Formula

The 4X multiplication factor is a deliberate and strategic decision influenced by several key factors, each contributing to the overall robustness and appeal of our ecosystem. These factors encompass a liquidity premium, convenience factor, fractional ownership impact, and the essential role of governance.

Firstly, the liquidity premium is a crucial element that stems from the increased ease with which participants can buy, sell, and trade the ACY token. By incorporating a multiplication factor, we enhance the token's liquidity, making it more attractive to a wider range of investors. This liquidity premium not only facilitates seamless transactions but also contributes to a more dynamic and responsive market for ACY.

The convenience factor is equally paramount, reflecting the user-friendly nature of the ACY token within the ecosystem. A higher token supply, achieved through the multiplication factor, ensures that ACY becomes more accessible and manageable for participants. This convenience fosters broader adoption and usage, creating a more inclusive and engaging environment within the ecosystem.

Fractional ownership impact plays a pivotal role in democratizing access to valuable assets. The multiplication factor enables fractional ownership of gold through ACY, allowing even smaller investors to participate in the ownership of significant gold reserves. This democratization promotes financial inclusivity and widens the participation base, aligning with the principles of decentralized finance.

Governance, as a fundamental aspect of the tokenomics structure, is also influenced by the multiplication factor. With an increased token supply, there is a proportional increase in voting power for token holders within the governance framework. This ensures a more distributed and participatory decision-making process, reinforcing the democratic principles embedded in the governance structure of the ecosystem.

The 4X multiplication factor is a comprehensive approach that goes beyond mere token supply adjustment. It incorporates a liquidity premium, enhances convenience, promotes fractional ownership, and amplifies the impact of governance. These elements collectively contribute to the resilience, accessibility, and participatory nature of the ACY token within our ecosystem, fostering a dynamic and inclusive financial landscape.

This robust tokenomics structure ensures that the ACY token is not only backed by the intrinsic value of physical gold but also incorporates additional security through insurance coverage. The availability of gold for both tokenization and immediate fulfillment of physical trades establishes a tangible and secure foundation for the ACY token, fostering confidence among participants in the ecosystem.

As we navigate the intricate landscape of tokenomics, this comprehensive approach aligns the digital representation of value with real-world assets, providing a solid and transparent foundation for the ACY token within our ecosystem. The multiplication factor introduces a dynamic element, ensuring adaptability to market conditions and enhancing the overall stability and attractiveness of ACY as a utility token.



Figure 5: ACY Token Sale

7.1 Token Distribution

The token distribution plan is meticulously structured to ensure a balanced and strategic allocation of ACY tokens across various phases and stakeholders within our ecosystem. The breakdown involves the allocation of 3 billion tokens for three distinct series of private sales, creating an initial opportunity for early investors to participate in the growth of the ACY ecosystem.

Subsequently, the distribution plan includes a substantial allocation of 6 billion tokens for three series of Initial Coin Offerings (ICOs). This phase aims to engage a broader audience, allowing a diverse range of investors to partake in the acquisition of ACY tokens during the ICO events. This approach not only fosters inclusivity but also provides a platform for a widespread and diverse community to participate in the development and success of the ACY project.

A prudent allocation of 4 billion tokens is reserved for the founders, recognizing their pivotal role in the inception and advancement of the project. This allocation serves as a means to incentivize and align the interests of the founding team with the long-term success of the ACY ecosystem. It reflects a commitment to rewarding those who contribute significantly to the project's vision, development, and strategic direction.

The remaining tokens are designated for the Treasury and future projects, offering flexibility and adaptability to the evolving needs of the ecosystem. This reserve pool serves as a valuable resource for funding ongoing operations, community initiatives, and innovative projects that enhance the overall functionality and sustainability of the ACY ecosystem.

In essence, this comprehensive token distribution plan not only ensures a fair and inclusive token sale process but also strategically allocates tokens to key stakeholders, fostering a sense of ownership and alignment of interests. The reserved tokens for the Treasury and future projects underscore a forward-

#	Description	Units	Min. Price	Date
1	Private Sale 1	1,000,000,000	\$0.001	Jan 2024
2	Private Sale 2	1,000,000,000	\$0.002	Feb 2024
3	Private Sale 3	1,000,000,000	\$0.003	Mar 2024
4	Coin Offering 1	2,000,000,000	\$0.005	Apr 2024
5	Coin Offering 2	2,000,000,000	\$0.007	May 2024
6	Coin Offering 3	2,000,000,000	\$0.009	June 2024

Table 3: ACY Token Price Schedule

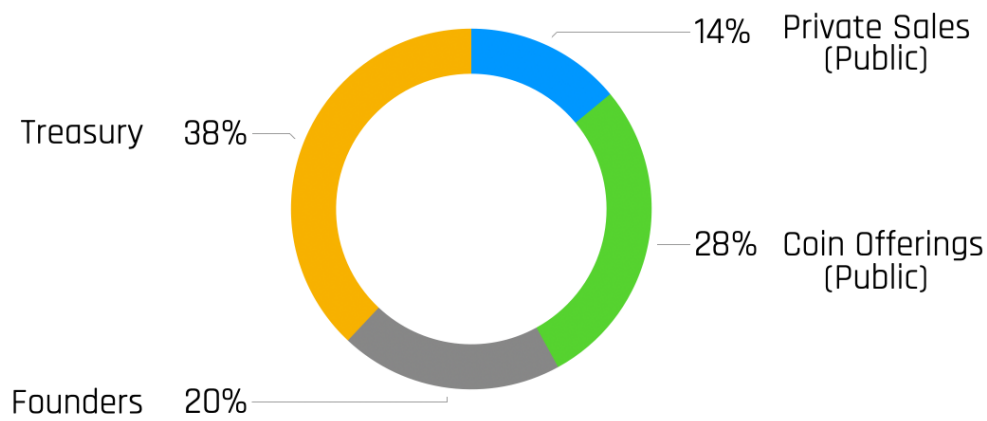


Figure 6: ACY Token Distributions

thinking approach, providing the necessary resources to navigate the dynamic landscape of blockchain technology and decentralized finance.

Tokens acquired through private sales and the Initial Coin Offering (ICO) stages undergo distinct lock-up periods, enhancing the stability and integrity of the ACY ecosystem.

In the case of ACY obtained through private sales, a strategic decision has been made to implement a lock-up period of one year. This measure serves multiple purposes, including instilling confidence among early investors, preventing rapid token circulation that might impact market stability, and fostering a long-term commitment from participants. By locking ACY tokens for a year after private sales, we aim to align the interests of early backers with the sustained growth and development of the ACY ecosystem, encouraging a collective focus on its long-term success.

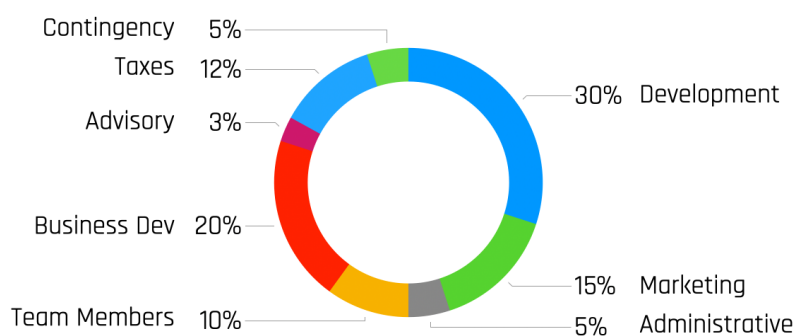


Figure 7: ACY Fund Utilizations

Conversely, ACY acquired through the ICO phase carries a shorter lock-up period of three (3) months. This shorter duration is designed to strike a balance, allowing ICO participants to gain relatively quicker access to their tokens while still mitigating the potential for immediate and excessive market volatility. The three-month lock-up period after ICOs aims to provide a smoother transition for participants from the fundraising phase to active participation in the ecosystem, supporting a healthy and controlled token circulation.

These lock-up periods reflect our commitment to responsible token distribution and market dynamics. By implementing differentiated lock-up periods, we seek to create an ecosystem where both early and later-stage investors contribute to the growth and stability of ACY, fostering a sustainable and vibrant blockchain community.

8 Token Sale Allocations

The distribution of tokens from public sales, encompassing both private sales and Initial Coin Offerings (ICOs), is a crucial aspect of our strategic planning. The allocation of tokens across various categories is meticulously designed to support the comprehensive development and sustained growth of the ACY ecosystem.

Development (30%): The largest portion of the token allocation is dedicated to development efforts. These funds play a pivotal role in enhancing the core infrastructure, implementing technological advancements, and ensuring the continuous improvement and innovation of the ACY platform. This allocation fosters the creation of a robust and feature-rich ecosystem.

Marketing (15%): A significant portion is earmarked for marketing initiatives to promote awareness, adoption, and engagement within the community. These funds are strategically utilized for marketing campaigns, partnerships, and community-building activities, ensuring the widespread recognition and acceptance of ACY in the market.

Administrative (5%): Administrative functions are essential for the smooth operation of any project. This allocation covers operational expenses, legal compliance, and day-to-day administrative requirements, providing a solid foundation for the overall governance and management of the ACY ecosystem.

Team (10%): Acknowledging the key role played by the team, a portion is allocated to incentivize and retain top talent. This serves as a motivational factor for the team members who contribute significantly to the project's success, aligning their interests with the long-term goals of the ACY ecosystem.

Business Development (20%): A substantial allocation is dedicated to business development efforts. These funds are utilized to explore strategic partnerships, collaborations, and market expansion initiatives, ensuring the sustained growth and relevance of ACY within the broader blockchain and financial ecosystem.

Advisory (3%): Advisory services are critical for gaining insights and expertise. This allocation is directed towards compensating advisors who provide valuable guidance and contribute to the strategic decision-making processes of the project.

Taxes (12%): A prudent allocation is set aside to meet tax obligations associated with the project's operations. This ensures compliance with regulatory requirements and financial transparency.

Contingency (5%): A contingency fund is allocated to address unforeseen circumstances or emerging opportunities. This flexible fund provides the project with the agility to adapt to evolving market conditions or unforeseen challenges.

This comprehensive token allocation plan reflects our commitment to responsible financial management and sustainable growth. Each category is strategically aligned to support the diverse needs of the ACY ecosystem, fostering a balanced and resilient foundation for long-term success.

Appendix A

A The Bullion Industry

The global bullion market, a cornerstone of the precious metals industry, exhibits a remarkable geographical dispersion, with prominent hubs strategically positioned in key financial centers such as London, Zurich, New York, and Dubai. Each of these hubs plays a pivotal role in shaping the dynamics of the market, serving as conduits for the trade, storage, and valuation of precious metals. The significance of these hubs extends beyond mere geographical locations; they represent interconnected nodes in a complex web of global economic activity.

In London, the historic heart of the bullion trade, the London Bullion Market Association (LBMA) oversees standards and practices, facilitating an environment conducive to transparent and efficient trading. Zurich, with its long-standing tradition of financial stability, has emerged as a hub for secure storage and private wealth management in the bullion market. Meanwhile, New York, as a major financial center, is instrumental in shaping futures and derivatives markets, adding layers of sophistication to bullion transactions. Dubai, strategically positioned at the crossroads of Asia, Europe, and Africa, has positioned itself as a burgeoning hub, catering to the growing demand for precious metals in the Middle East and beyond.

A.1 Regulatory Variances

The bullion market, being a global entity, operates within a framework of diverse regulatory landscapes that significantly impact how precious metals are stored, traded, and taxed across various jurisdictions. The regulatory variances from country to country introduce a layer of complexity that market participants must navigate with diligence and expertise.

Regulations governing the bullion market encompass a spectrum of considerations, ranging from purity standards and authentication procedures to trade reporting and taxation. In London, adherence to the LBMA's Good Delivery standards is paramount, ensuring the integrity of gold and silver bars traded on the market. In contrast, New York's regulatory environment places emphasis on transparency in futures and options trading through oversight by the Commodity Futures Trading Commission (CFTC).

The nuanced regulatory frameworks extend beyond trading practices to encompass storage arrangements. Zurich, for instance, leverages its reputation for financial stability to provide secure storage options, while Dubai's regulatory approach aligns with its role as a growing global trade hub.

A.2 Market Size

The bullion industry, encompassing physical gold and other precious metals, reflects a dynamic landscape characterized by substantial market size, robust annual trade volumes, diverse revenue streams, significant market capitalization, and compelling investment value.

Market Size: The physical gold market, estimated at nearly US\$5 trillion by the World Gold Council, signifies its dominance with approximately 82,200 tonnes, constituting 39% of total above-ground gold stocks. The broader precious metals market, covering gold, silver, platinum, and palladium, boasts a considerable size projected to reach US\$40 billion by 2032, as estimated by Market Research Future.

Annual Trade Volume: The London Bullion Market Association (LBMA), the world's largest wholesale market, facilitates the daily trade of about 20 million ounces of gold (over US\$36 billion) and 200 million ounces of silver (more than US\$4 billion), underscoring its pivotal role in global bullion transactions.

Revenue: Physical retailers and dealers within the bullion industry witness revenue fluctuations based on individual sales volumes and profit margins, exhibiting the sector's inherent variability.

Total Market Capitalization: Gold-backed Exchange-Traded Funds (ETFs), trading on stock exchanges and holding physical gold, collectively boast a market capitalization exceeding US\$300 billion as of January 2024.

Investment Value: The allure of gold as an investment is underscored by the total estimated value of above-ground gold, reaching approximately US\$12 trillion according to the World Gold Council, emphasizing its enduring appeal and intrinsic value in the investment landscape.

A.3 Bullion Ecosystem

The global bullion market is spread across numerous countries, with major hubs in London, Zurich, New York, and Dubai. Regulations vary by country and can affect how bullion is stored, traded, and taxed.

The ecosystem of the physical bullion business is complex and multi-faceted, involving a range of participants playing different roles, namely Producers, Suppliers, Investors and Collectors, Supporting Services, and Market Regulation.

A.3.1 Producers

Gold producers are entities or companies engaged in the extraction and refinement of gold from mining operations or other sources. These entities play a crucial role in the supply chain of the precious metal, overseeing processes such as exploration, excavation, processing, and ultimately producing refined gold.

Miners: Miners stand as the vanguards of bullion production, undertaking the formidable task of extracting gold and silver from the Earth. Employing a range of techniques, from traditional methods to state-of-the-art technologies, miners navigate subterranean realms, demonstrating not only physical prowess but also a profound understanding of geological intricacies. Their role in the initial phase of the bullion supply chain is indispensable, setting the foundation for the subsequent refinement and distribution processes.

Refineries: Refineries serve as the refining artisans in the bullion production journey. Armed with advanced metallurgical processes, these facilities meticulously process raw gold and silver, removing impurities and shaping them into standardized bullion bars and coins. The refined products, varying in size and type, reflect the pinnacle of quality and authenticity. Refineries act as the critical intermediaries, ensuring that the precious metals reaching the market meet stringent purity standards, thereby shaping the integrity of the entire bullion industry.

Governments: Governments, exemplified by countries such as Australia and South Africa, actively participate in gold and silver production through

state-owned mining companies. This direct involvement establishes a vital link between national economies and the precious metals industry. Governments contribute to the overall bullion supply, influencing market dynamics and economic indicators. Beyond economic considerations, their participation often aligns with strategic interests, contributing to national reserves and fostering economic stability. The multifaceted role of governments adds complexity to the bullion industry, where geopolitical factors intertwine with the extraction and distribution of these valuable resources.

A.3.2 Suppliers

Within the intricate landscape of the bullion market, wholesalers, retailers, and dealers stand as pivotal players, each contributing distinctively to the distribution network that connects precious metals with end consumers.

Wholesalers: At the forefront, wholesalers play a crucial role by procuring bullion in substantial quantities from producers and refineries. These entities leverage their position to negotiate bulk purchases, ensuring a steady supply of precious metals. Once secured, wholesalers distribute these bullion holdings to retailers and dealers, fostering a bridge between production hubs and the wider market.

Retailers: On the consumer-facing front, retailers serve as the direct link between individual investors and the world of precious metals. Operating through physical stores, online platforms, or mail-order services, retailers curate diverse selections of bullion products. Their accessibility to individual buyers facilitates the democratization of precious metal ownership, enabling investors and collectors to acquire gold and silver in various forms, from coins to bars.

Dealers: Dealers operate with a unique focus, engaging in the buying and selling of bullion, not only with individual investors but also amongst themselves. Often specializing in specific types of bullion or market niches, dealers bring depth to the market by providing a platform for diverse transactions. Their expertise and specialization contribute to the market's vibrancy, catering to the nuanced preferences of both seasoned collectors and new entrants.

A.3.3 Investors and Collectors

The bullion market attracts a diverse array of participants, each with unique motivations and strategies.

Individual investors: Individual investors engage in the bullion market as a strategic avenue for investment. These individuals buy and sell bullion with the primary goal of capitalizing on price fluctuations. Gold and silver, regarded as tangible and enduring assets, serve as a hedge against economic uncertainties, making them an attractive investment choice. Individual investors actively monitor market trends, aiming to seize opportunities that arise from the dynamic nature of precious metal prices.

Collectors: Collectors, driven by a passion for the aesthetic and historical aspects of bullion, accumulate precious metals for their numismatic value, rarity, or historical significance. Beyond the intrinsic value of the metal itself, collectors appreciate the unique stories and craftsmanship associated with specific bullion pieces. Rare coins, limited editions, and historically significant items often find a place in the collections of these enthusiasts, transforming bullion into cherished artifacts beyond its monetary worth.

Institutional investors: On a grander scale, institutional investors, encompassing large investment firms, banks, and other financial institutions, strategically include bullion in their portfolios as part of a broader asset diversification strategy. These entities recognize the role of precious metals in providing stability and a counterbalance to traditional financial assets. Institutional investors contribute to the significant trading volumes in the bullion market, shaping its liquidity and influencing market trends on a global scale.

A.3.4 Supporting Services

The robust functioning of the bullion industry relies on a network of key entities that provide specialized services, ensuring the integrity, security, and value assessment of precious metals.

Security companies: At the forefront, security companies play a pivotal role by providing secure storage and transportation solutions for bullion. Catering

to the needs of producers, traders, and investors, these entities implement state-of-the-art security measures to safeguard valuable assets during transit and storage. Their services are paramount in maintaining the trust and confidence of market participants.

Assayers: Assayers contribute to the credibility of the bullion market by meticulously verifying the purity and authenticity of bullion bars and coins. Employing advanced analytical techniques, these professionals ensure that the precious metals meet industry standards, providing a crucial layer of assurance for buyers and sellers in the market.

Grading companies: In the world of collectible coins, grading companies play a vital role. These entities assess the condition and rarity of coins, providing a standardized and universally recognized grading system. This service is invaluable for collectors and investors, offering a transparent and objective evaluation of the quality and historical significance of numismatic pieces.

Financial institutions: Financial institutions add a layer of sophistication to the bullion industry by offering specialized banking and investment services tailored for bullion holders. This includes storage facilities, investment products, and financial instruments designed to meet the unique needs of those engaged in the buying, selling, and holding of precious metals.

A.4 Market Regulation

In the intricate realm of the bullion market, the synergy between governments, regulatory bodies, and industry associations plays a crucial role in upholding market integrity and safeguarding the interests of all stakeholders.

Governments and Regulatory Bodies: Governments, along with regulatory bodies, serve as custodians of ethical conduct and market stability in the bullion industry. Through the establishment and enforcement of comprehensive rules and regulations, they create a regulatory framework that governs the sale and trade of bullion. These measures not only protect consumers from malpractices but also ensure fair trading practices,

adherence to purity standards, and the prevention of financial crimes. Entities like the U.S. Commodity Futures Trading Commission (CFTC) and the Financial Conduct Authority (FCA) in the UK play pivotal roles in maintaining transparency and accountability, contributing to the overall health of the bullion market.

Industry Associations: On another front, industry associations act as advocates for bullion businesses, representing their interests and promoting fair and efficient markets. Organizations such as the London Bullion Market Association (LBMA) and the World Gold Council serve as collaborative platforms where industry participants can collectively address challenges, establish best practices, and foster a sense of unity. By promoting responsible business conduct and disseminating industry standards, these associations contribute to the creation of an environment where bullion businesses can thrive while maintaining the highest levels of professionalism and ethical conduct.

The ecosystem is interconnected, with each player relying on others to function effectively. Prices are influenced by supply and demand from all participants, creating a dynamic market environment. Technology is also playing an increasingly important role, with online platforms facilitating trade and allowing investors to access a wider range of bullion products.

Appendix B

PLEASE READ THIS ENTIRE SECTION CAREFULLY. IF YOU ARE IN ANY DOUBT, PLEASE CONSULT YOUR LEGAL, FINANCIAL, ACCOUNTING, TAX OR OTHER PROFESSIONAL ADVISOR(S).

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This Whitepaper has been approved by the Program Executors and they collectively and individually accept full responsibility for the accuracy of the information given and confirm that, after having made all reasonable enquiries, and to the best of their knowledge, information and belief, there are no false or misleading statements or other material facts the omission of which would make any statement in this Whitepaper false or misleading.

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 - ii. it is lawful for the recipient to receive this Whitepaper and/or to purchase the ACY Tokens under all jurisdictions to which the recipient is subject;
 - iii. the recipient has complied with all applicable laws in connection with the receipt of this Whitepaper and/or the purchase of the ACY Tokens;
 - iv. Program Executors, The Promoter and their respective directors, officers, employees and professional advisers are not and will not be in breach of the laws of any jurisdiction to which the recipient

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- v. it is aware that the ACY Tokens can only be offered, sold, transferred or otherwise disposed of directly or indirectly in accordance with the relevant selling restrictions and all applicable laws;
- vi. it has sufficient knowledge and experience in financial and business matters to be capable of evaluating the merits and risks of purchasing the ACY Tokens, and is able and is prepared to bear the economic and financial risks of purchasing and/or holding the ACY Tokens,
- vii. it is purchasing the ACY Tokens for its own account.
- viii. it agrees and acknowledges that the ACY Tokens are not to be construed, interpreted, classified or treated as:
 - A. any kind of currency other than cryptocurrency;
 - B. debentures, stocks or shares issued by any person or entity;
 - C. rights, options or derivatives in respect of such debentures, stocks or shares;
 - D. rights to secure a profit or avoid a loss;
 - E. units in any type of investment scheme;
 - F. units in any type of trust;
 - G. any form of derivatives; or
 - H. any other security or class of securities.
 - I. it is aware that the information contained in this Whitepaper may not be complete;
 - J. it is fully knowledgeable and aware of all matters concerning the purchasing, selling and holding of ACY Tokens which

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