ID Digital Bonds

THE FIRST AND LEADING FINANCIAL REAL WORLD ASSETS TOKENIZATION IN INDONESIA

Version 2.0

PT Sejahtera Bersama Nano is a Participant in OJK Sandbox based on Letter No. S-514/IK.01/2024

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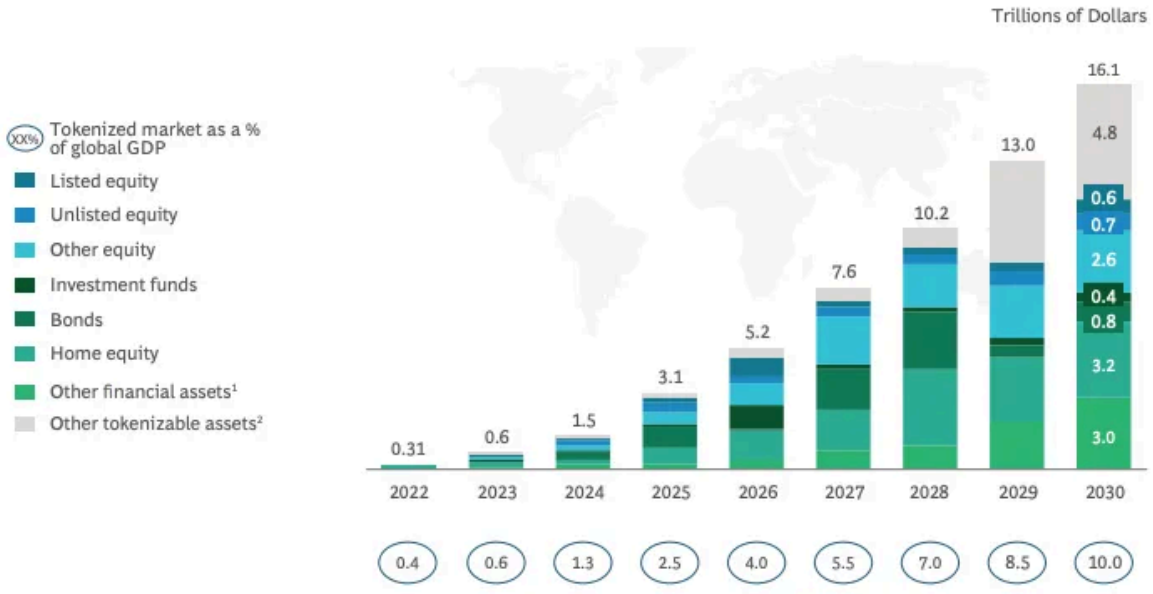
Background: Transforming Indonesia's Financial Market Through Real-World Asset Tokenization

Indonesia's capital market, while vibrant, has long faced structural challenges that limit broad-based participation. One of the key barriers has been the high entry threshold for retail investors to access premium sovereign fixed-income products. These instruments, prized for their stability and predictable yields, have historically been reserved for institutional players and high-net-worth individuals due to substantial minimum investment requirements.

Today, with the rapid acceleration of global digital transformation, Indonesia is poised for a major shift in its financial sector. Blockchain technology, once primarily associated with crypto assets, is evolving through the tokenization of real-world assets (RWA), including government bonds. This advancement has the potential to modernize capital market infrastructure, enhance transparency, and democratize access to traditionally exclusive investment opportunities.

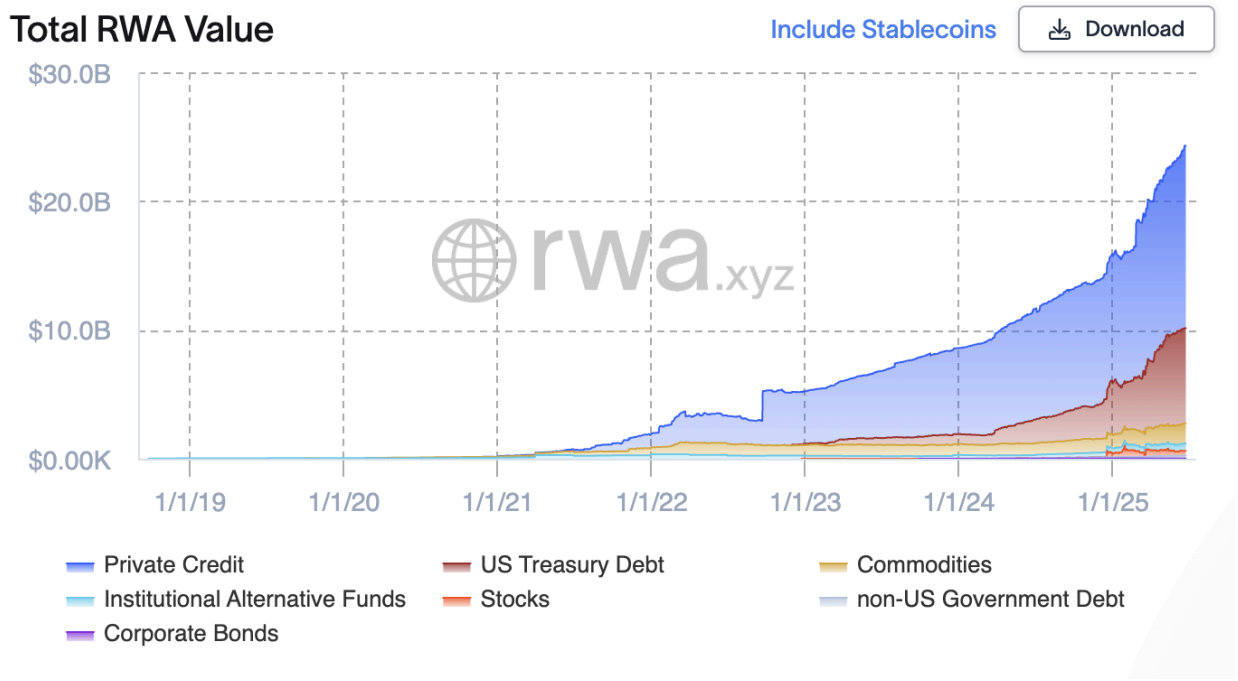
For the Indonesian government, RWA tokenization offers not only a technological upgrade but also a strategic advantage in improving capital efficiency and financial inclusion. According to research by Boston Consulting Group and ADDX, the market for tokenized assets and businesses is projected to reach USD $16 trillion by 2030, equivalent to 10% of global GDP. [1]



As of June 2025, According to rwa.xyz, a site that monitors all existing RWA tokenizations, the total capitalization of RWA has now reached USD $24.3 billion, or approximately Rp 396 trillion. This indicates a strong interest in tokenized assets, which can provide significant benefits to people in Indonesia. [2]

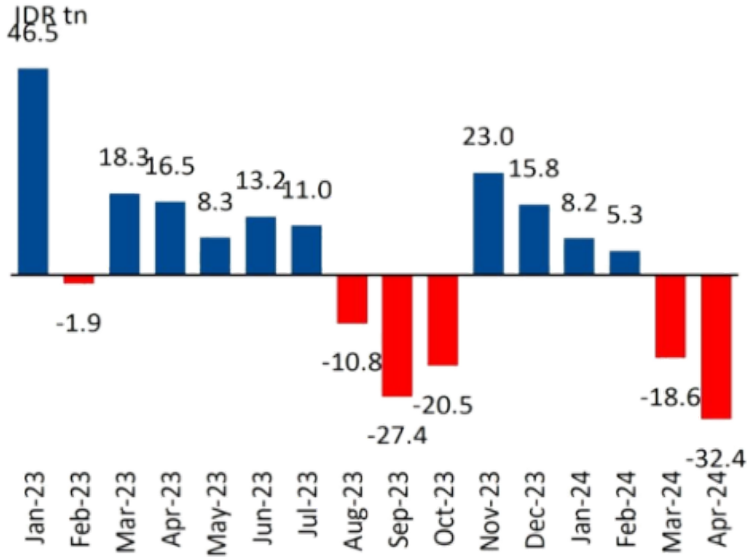
[1] Source: Relevance of on-chain asset tokenization in 'crypto winter', BCG and ADDX, Year: 2022

[2] Source: rwa.xyz



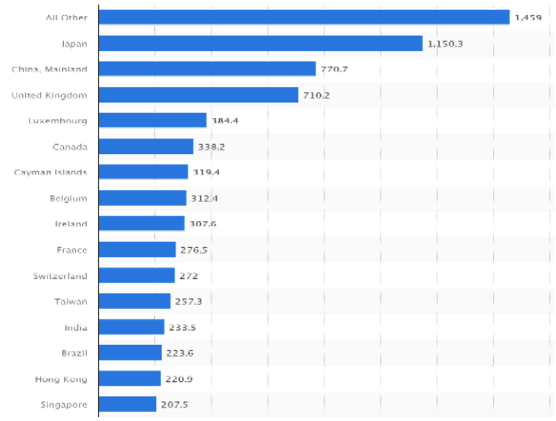
By deliberately positioning itself within this powerful global narrative, IDDB connects a domestic Indonesian innovation to a major international investment thesis, making it relevant to a global audience of investors seeking exposure to the RWA sector.

According to Bloomberg, as of April 2024, capital outflows have reached IDR 32.4 trillion, nearly double the IDR 18.6 trillion recorded in March 2024. This data highlights a significant increase in funds leaving the country for foreign markets, underscoring a notable shift in capital movement. All of these data also consider that Indonesia needs an innovative technology that can accelerate the capital inflow for the country.



As observed among Indonesians living abroad, many prefer to invest in U.S. Treasury bills. According to them, these instruments are perceived as lower risk due to their denomination in U.S. Dollars (USD), which offer greater stability compared to Rupiah-based investments. The Indonesian Rupiah (IDR) has experienced a depreciation of approximately 15% against the USD over the past five years, further reinforcing their preference to hedge against currency risk.





According to Statista, as of January 2024, total global holdings of U.S. Treasury Bills (T-Bills) reached USD 8 trillion, with Singapore alone holding USD 207.5 billion. As incomes rise and cross-border transactions become more common, an increasing number of investors are expected to gravitate toward U.S. T-Bills in search of stability and reliable returns.

In response to similar investor preferences and to address the country's USD-denominated debt obligations, the Indonesian government, through the Ministry of Finance, has issued USD-denominated sovereign bonds known as the INDON series. These bonds aim to attract capital inflows, particularly from Indonesian investors living abroad, by offering a secure, government-backed investment denominated in U.S. Dollars. The issuance reflects a strategic effort to tap into global investor interest while strengthening Indonesia's external financing framework.

Benefit of Real World Assets Tokenization

RWA tokenization is the process of creating digital tokens on a blockchain that represent verifiable ownership of tangible, off-chain assets. These assets can range from financial instruments like stocks and bonds to physical assets like real estate and precious metals. This process leverages the inherent benefits of blockchain, transparency, efficiency, and fractional ownership, to unlock liquidity and broaden access to previously illiquid markets.

a. **Enhanced Liquidity:** One of the most significant advantages of tokenization is the ability to unlock liquidity for historically illiquid assets. By fractionalizing ownership and enabling trading on secondary markets that can operate 24/7, tokenization makes it easier to buy and sell these assets, thereby increasing their liquidity.

b. **Fractional Ownership and Democratized Access:** Tokenization breaks down high-value assets into smaller, more affordable fractions. This allows a broader range of investors to participate in markets that were previously the exclusive domain of institutional investors and high-net-worth individuals. For example, instead of needing millions to invest in a commercial building, an individual could purchase a token representing a small fraction of that property, gaining exposure to its potential returns. This democratization of access opens up new avenues for wealth creation and portfolio diversification for the average investor.

c. **Increased Transparency and Security:** The use of blockchain technology provides an immutable and transparent record of ownership and transaction history. Every transaction is cryptographically signed and linked to the previous one, creating a tamper-proof audit trail. This inherent transparency can reduce the risk of fraud and disputes, as all participants on the network have access to the same single source of truth.

d. **Reduced Transaction Costs and Faster Settlements:** Traditional asset transactions often involve a host of intermediaries, such as brokers, lawyers, and custodians, each adding to the overall cost and complexity. Smart contracts, which are self-executing contracts with the terms of the agreement directly written into code, can automate many of the manual processes involved in asset transfer, from compliance checks to dividend payments. This automation significantly reduces administrative burdens and the need for intermediaries, leading to lower transaction fees and faster, near-instantaneous settlement times.

e. **Greater Efficiency and Programmability:** Tokenization allows for the embedding of specific rights, restrictions, and functionalities directly into the token itself through smart contracts. This "programmability" can automate complex processes such as dividend distribution, interest payments, and compliance with regulatory requirements. For instance, a token representing a share in a rental property could be programmed to automatically distribute monthly rental income to token holders.

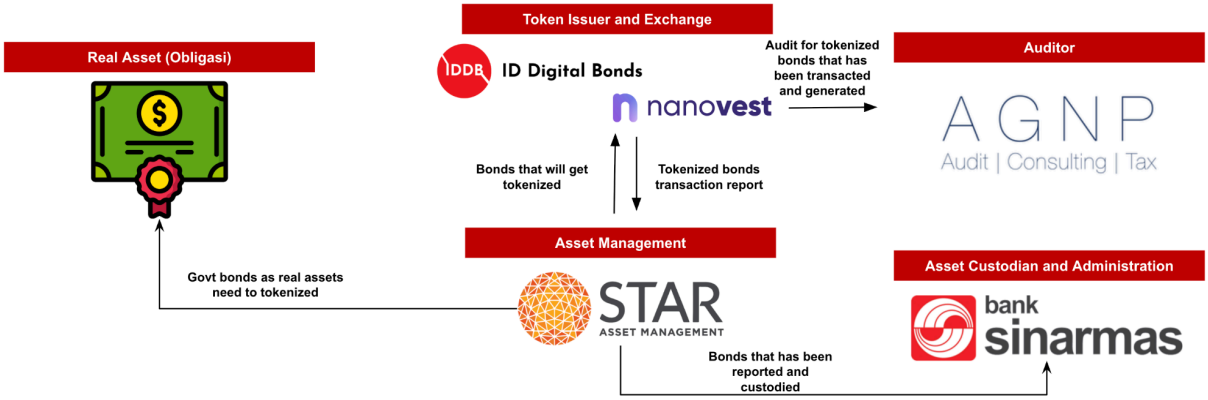
f. **Expanded Market Reach:** By existing on a digital, borderless ledger, tokenized assets can be made available to a global pool of investors. This removes geographical barriers and opens up new sources of capital for asset owners and issuers, fostering a more interconnected and efficient global market.

g. **Improved Portfolio Diversification:** For investors, tokenization offers the opportunity to easily diversify their portfolios across a wider range of asset classes. The ability to invest in small fractions of various assets allows for a more granular and customized approach to risk management and investment strategy.

In conclusion, the tokenization of real-world assets represents a paradigm shift in how we interact with and perceive value. By leveraging the power of blockchain technology, it offers a more liquid, accessible, transparent, and efficient model for asset ownership and transfer. While regulatory frameworks are still evolving to fully accommodate this innovation, the transformative potential of asset tokenization to unlock new investment opportunities and reshape the financial landscape is undeniable.

ID Digital Bonds (IDDB), The Leading Financial Assets Tokenization

Inspired by the BlackRock's BUIDL ecosystem, we would like to introduce the first and leading financial real world assets tokenization ecosystem called ID Digital Bonds with the code ticker IDDB-USD001.



ID Digital Bonds (IDDB) is the first project in Indonesia to adopt the tokenization of a financial asset in the form of Bonds. This IDDB project is the result of development and collaboration between Nanovest, a crypto exchange licensed by the OJK (Financial Services Authority); PT Sejahtera Bersama Nano (SBN) as the RWA (Real-World Asset) token issuer; STAR Asset Management as the asset management partner; and Bank Sinarmas as the Custodian Bank that stores the underlying Bond assets. Furthermore, this project is also supported by AGNP, a public accounting firm that serves as the independent auditing institution to ensure that transactions are recorded properly and accurately.

Introducing ID Digital Bonds (IDDB) Ecosystems

ID Digital Bonds (IDDB) - PT Sejahtera Bersama Nano (SBN) as Token Issuer

ID Digital Bonds

In the Real World Asset (RWA) tokenization ecosystem, PT Sejahtera Bersama Nano acts as the entity developing blockchain technology and promoting the adoption of RWA tokenization. PT SBN will explore the use of smart contracts to facilitate the tokenization of real-world assets, thereby making them more liquid and easily accessible to investors. These will be known as ID Digital Bonds (IDDB) tokens.

Nanovest as Tokenized Assets Exchange

Nanovest is the crypto exchange licensed and supervised by Otoritas Jasa Keuangan (OJK) with no. No. S-8/D.07/2025 on 01 February 2025 work as the platform provider that will facilitate the trading of RWA tokens for customers, wherein Nanovest will assist customers with account registration on the Nanovest platform, identity verification/KYC (know your customer), as well as the trading (buying and selling) of IDDB token assets.

STAR Asset Management as Investment and Asset Management

STAR Asset Management is an investment management company registered with the Financial Services Authority (OJK) under license No. KEP-09 / PM / MI / 2004, dated October 4, 2004, formerly issued by BAPEPAM LK (the predecessor to the OJK).

In these ecosystems, STAR Asset Management serves as the investment manager that oversees the financial assets to be tokenized by the token issuer (SBN). The value of the tokenized financial assets must correspond to the amount of financial assets held by SBN through a KPD (Discretionary Fund Management Contract) product at STAR Asset Management.

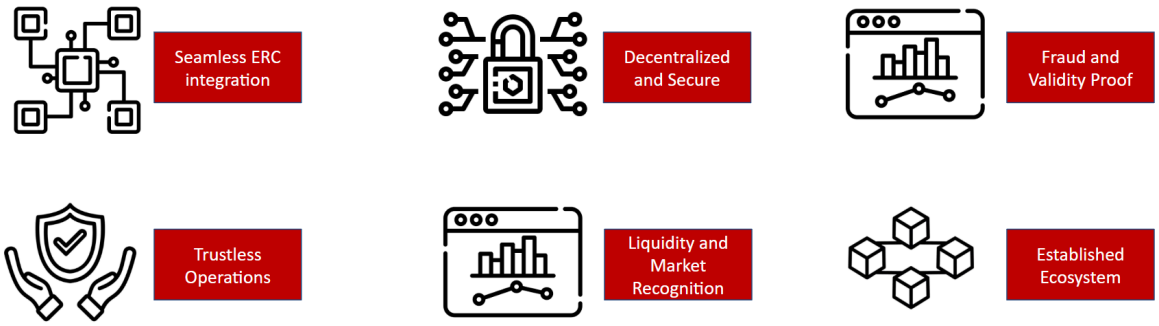
Bank Sinarmas as Custodian Bank

Bank Sinarmas is a banking company that began operations in 1989 and has been operating as a Custodian in accordance with the decision of the Chairman of the Capital Market and Financial Institutions Supervisory Agency (Bapepam-LK) Number KEP-21/BL/2012, dated January 30, 2012, concerning the Approval of Commercial Banks as Custodians in the Capital Market.

Furthermore, it holds an approval letter from the Financial Services Authority (OJK) to carry out Custodian activities, as stated in letter number S-628/PM.223/2022, dated August 22, 2022. Within the IDDB ecosystem, Bank Sinarmas functions as the custodian and administrator of the financial assets.

Technology Behind ID Digital Bonds

The foundation of ID Digital Bonds (IDDB) lies in the strategic use of smart contracts to tokenize real world assets, specifically government bonds in our first token IDDB-USD001. These contracts are deployed on the Ethereum network, leveraging the ERC-20 token standard to ensure compatibility, interoperability, and seamless integration within the broader blockchain ecosystem.



To ensure full alignment with Indonesia's regulatory framework, the standard ERC-20 protocol has been enhanced with custom functionalities that address local compliance requirements. This tailored implementation enables IDDB to operate within the legal and operational boundaries defined by Indonesian authorities, ensuring both innovation and regulatory integrity.

The inaugural token, IDDB-USD001, is backed by the Indonesian government bond INDON-34. Traditionally, INDON-34 required a minimum investment of $200,000. With IDDB-USD001, however, each token unit has a minimum purchase amount of just $100, effectively offering a fractional representation of the full bond. This structure provides a clear and stable valuation foundation, allowing investors to easily understand the token's linkage to its underlying asset.

The token's market value is designed to mirror the price fluctuations of INDON-34 on the secondary market, allowing holders to capitalize on any appreciation of the underlying asset. Furthermore, the coupon payments from INDON-34 are directly integrated into the token's price structure, enhancing its value and strengthening its attractiveness as a yield-generating digital asset.

Features

	IDDB-USD001	INDON34
Min. Purchase	USD 100	USD 200,000
Coupon Effect	Daily	6 months
Available In	nanovest	**TradFi**

The price movement of the IDDB-USD001 token will mirror its underlying asset, which is INDON34. The token price will be influenced by both the INDON34 price and its associated coupon.

Portfolio Composition

Government Bonds (INDON34)	**98%**
Cash or Cash Equivalent	**2%**

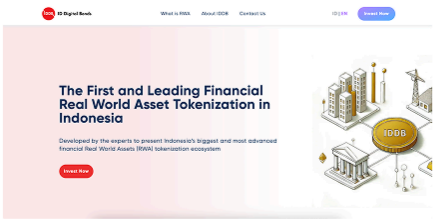
Benefits

- Lower barrier to entry
- Professionally managed
- Fully transparent
- The first Real World Asset (RWA) tokenization project participate at OJK Sandbox

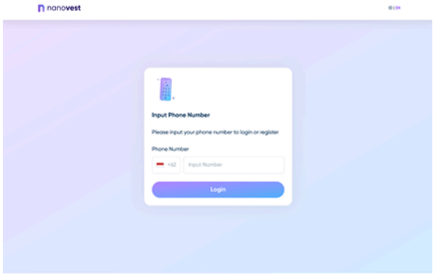
ID Digital Bonds Platform Flow

Registration Process from Web Platform

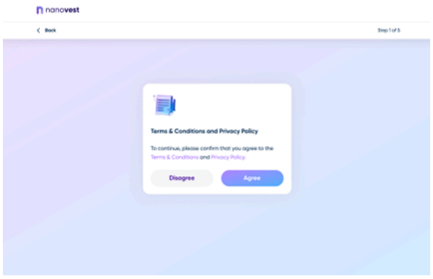
1. Visit **https://www.iddb.finance/id** and Click the **Invest Now** button



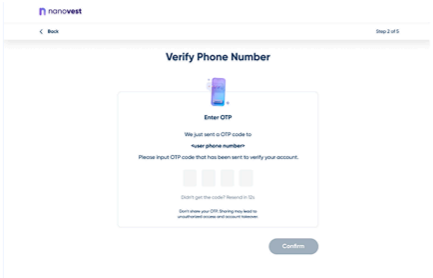
2. Enter phone number and tap **Login**



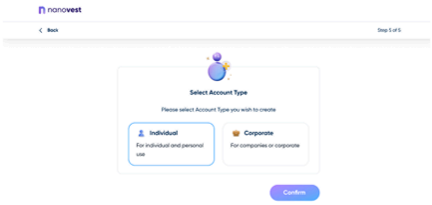
3. Agree to the **Terms & Conditions and Privacy Policy**



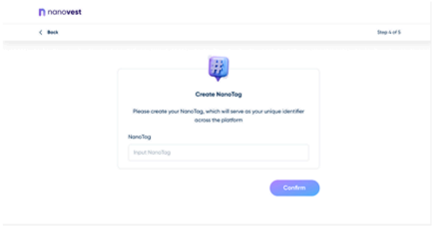
4. Enter **OTP** sent to registered **phone number**



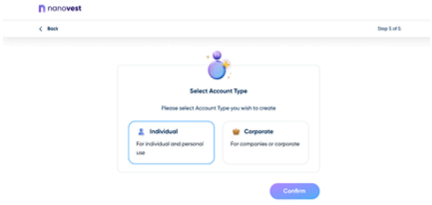
5. Create and confirm **password**
   - Minimum 8 characters, including at least 1 lowercase letter, 1 uppercase letter, and 1 number
   - Only these special characters are allowed: !@#$%^



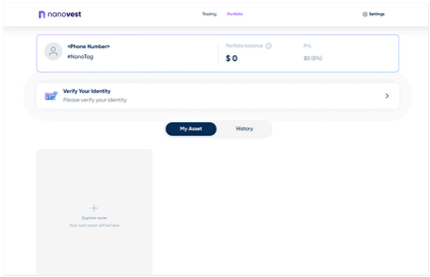
6. Create **Nanotag**



7. Select account type: **Individual** or **Corporate**

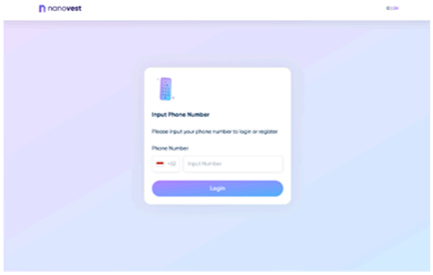


8. User is redirected to **Dashboard** upon successful registration

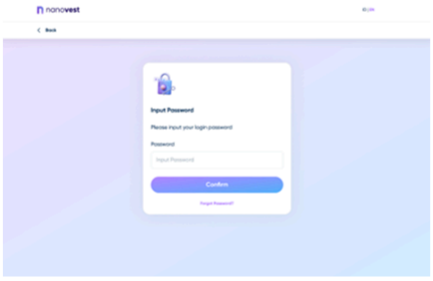


Login Process from Web Platform

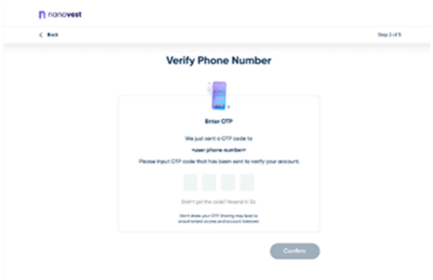
1. Log in using registered **phone number.**



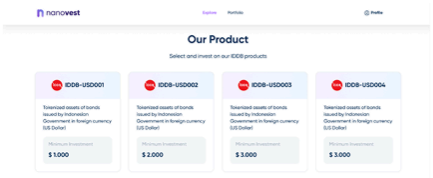
2. System checks registration status If registered, prompt to enter password.



3. Enter **OTP** sent to the registered phone number

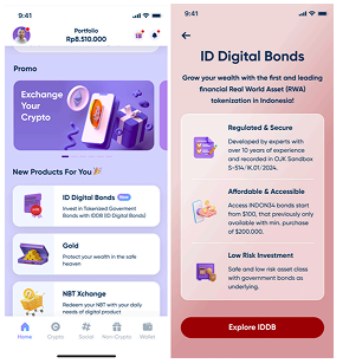


4. Upon successful login, redirected to **Dashboard**



Register and Login Process from Nanovest Mobile App

1. login to nanovest apps account and access **ID Digital Bonds**

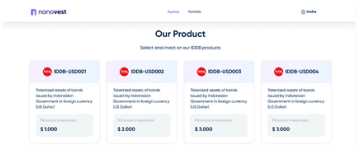


2. connect **IDDB account** to **Nanovest account**.

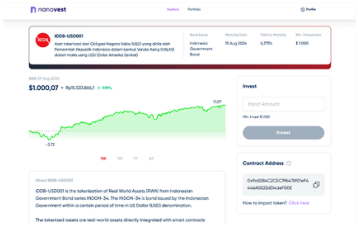


Investment using Centralized Wallet

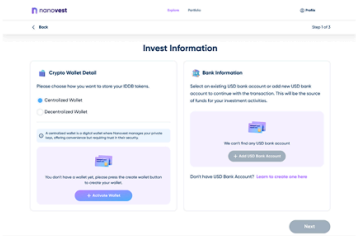
1. Log in and go to the Explore page. Then select a digital asset to purchase.



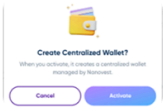
2. Review product details, input **investment amount**, then click **Invest.**



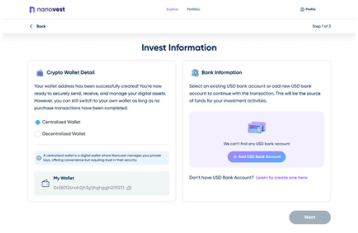
3. Choose **Centralized Wallet**, then click **Activate Wallet** to generate centralized wallet.



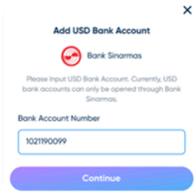
4. Click **Activate** to confirm wallet creation.



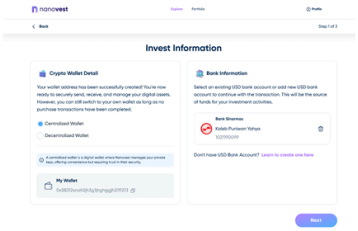
5. Add USD Sinarmas Bank Account by clicking Add USD Bank Account.



6. Enter **USD Sinarmas account number** in the popup.

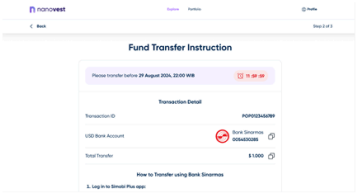


7. Click **Continue**
If account is valid → system displays bank details
If not → re-enter correct account number

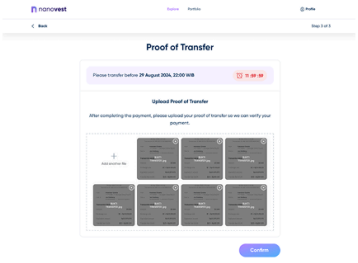


8. Click **Next** to proceed.

9. Transfer the required funds according to the instructions on the **Fund Transfer Instruction page**



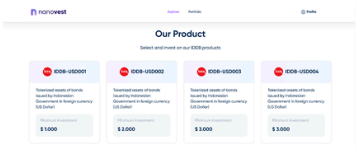
10. Upload proof of transfer on the **Proof of Transfer page.**



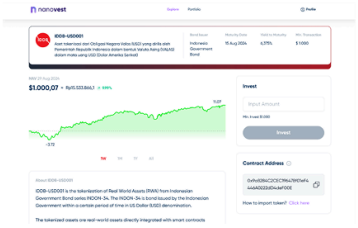
11. Your transaction is complete.

Investment Process using Decentralized Wallet

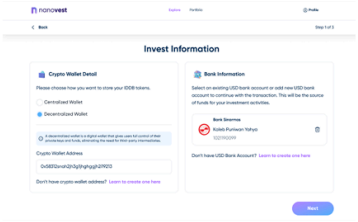
1. Log in and go to the Explore page. Then select a digital asset to purchase.



2. Review product details, input **investment amount**, then click **Invest.**



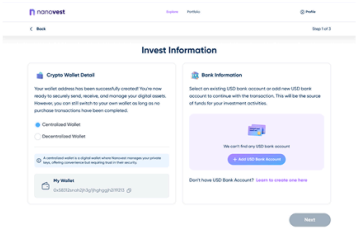
3. Select **Decentralized Wallet** to use existing decentralized wallet.



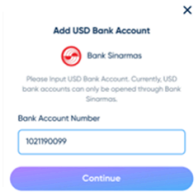
*Tip: Click **Learn how to create one here** for a step-by-step guide.*

4. Copy **wallet address** and enter it into the **Crypto Wallet Address** field.

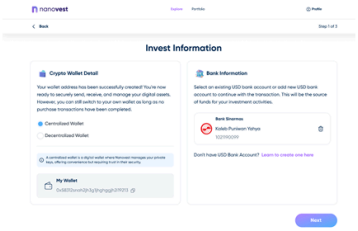
5. Add USD Sinarmas Bank Account by clicking Add USD Bank Account.



6. Enter **USD Sinarmas account number** in the popup.

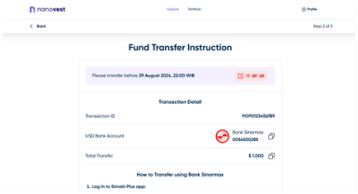


7. Click **Continue**
If account is valid → system displays bank details
If not → re-enter correct account number

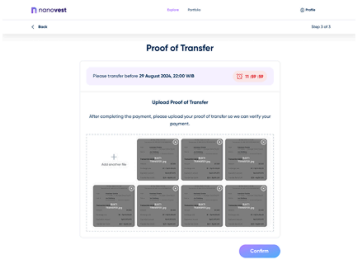


8. Click **Next** to proceed.

9. Transfer the required funds according to the instructions on the **Fund Transfer Instruction page.**



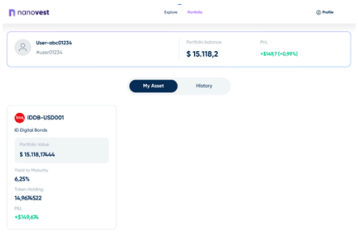
10. Upload your transfer receipt on the **Proof of Transfer page.**



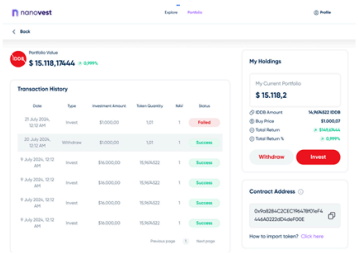
11. Your transaction is complete.

Withdraw Process using Centralized Wallet

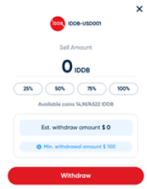
1. Log in and go to the **Portfolio** tab, then select the **portfolio** to withdraw from



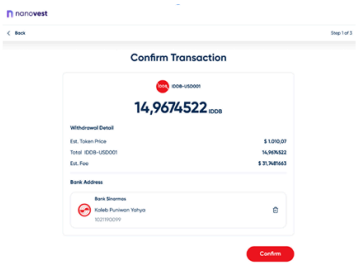
2. Redirected to the **portfolio detail page**. Click **Withdraw** to initiate the withdrawal.



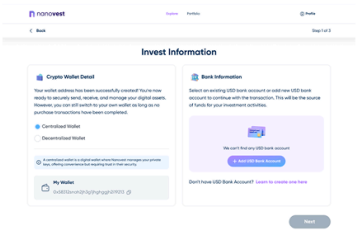
3. Enter **amount of IDDB tokens** to withdraw, then click **Withdraw**.



4. On **Confirm Transaction page**, user selects destination bank account and clicks **Confirm**



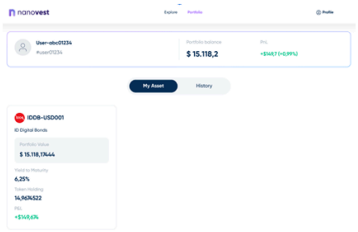
5. System transfers **IDDB tokens** automatically to **Nanovest wallet address**



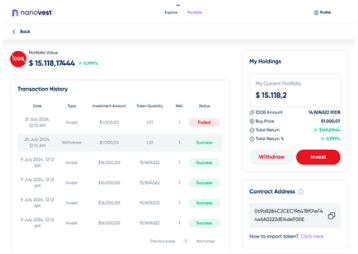
6. Your transaction is complete.

Withdrawal Process using Decentralized Wallet

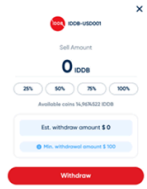
1. Log in and go to the **Portfolio** tab, then select the **portfolio** to withdraw from



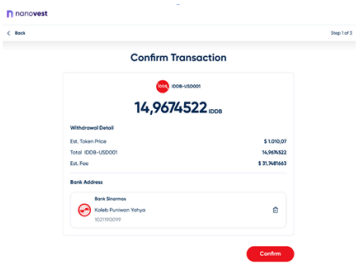
2. Redirected to the **portfolio detail page**. Click **Withdraw** to initiate the withdrawal.



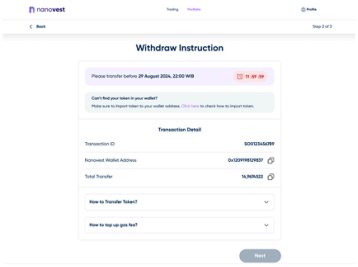
3. Enter **amount of IDDB tokens** to withdraw, then click **Withdraw**.



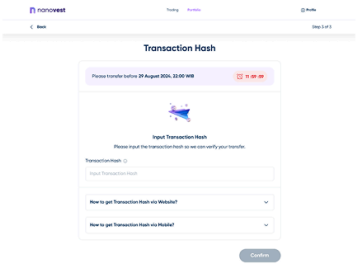
4. On **Confirm Transaction page**, user selects destination bank account and clicks **Confirm**



5. Send the IDDB tokens from **decentralized wallet** to the **Nanovest wallet address** shown in the Withdraw Instruction.



6. Copy the **transaction hash** from decentralized wallet and paste it into the **Transaction Hash** field.



7. Your transaction is complete.

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