CLAIMS

1. A method for configuring at least one smart contract on a distributed ledger to manage a plurality of asset-class backed tokens, the method comprising:

receiving, by a tokenization platform, a token configuration indicating a plurality of assets, wherein the plurality of assets includes at least two different types of assets, wherein at least one of the types of assets comprises a revenue-generating asset;

configuring, by a tokenization platform, at least one smart contract on the distributed ledger to mint and manage a plurality of asset-class backed tokens that are backed by the plurality of assets, wherein the at least one smart contract is configured to:

authorize token transfers from a first distributed ledger account to a second distributed ledger account in accordance with one or more governance rules, wherein the governance rules are configured to prohibit transfer to the second distributed ledger account if the second distributed ledger account does not meet qualifications specified by the one or more governance rules;

monitor a distributed ledger oracle for one or more asset-related events;

receive revenue related to the plurality of assets; and

distribute the received revenue to current owners of the asset-class backed tokens; responsive to one or more purchase requests received by the tokenization platform, initiating, by the tokenization platform, minting of the plurality of asset-class backed tokens and assignment of each minted asset-class backed token to a blockchain address of a purchasing user; and

causing, by the tokenization platform, the smart contract to distribute the received revenue to the blockchain addresses of current owners of the plurality of asset-class backed tokens, wherein the distribution is responsive to the one or more asset-related events.

2. The method of claim 1, wherein the one or more asset-related events comprise at least one of:

a new purchase or license of at least one of the plurality of assets;

a change in recurring revenue for a revenue-generating asset;

a revenue-generating asset starting operation;

a revenue-generating asset stopping operation; or

a receipt of revenue related to an asset.

3. The method of claim 1, wherein the plurality of assets comprises intellectual property rights, wherein the distributed ledger oracle is configured to maintain a list of licensees of intellectual property rights, and wherein the tokenization platform configures the at least one smart contract to enforce collection of revenues from the licensees of the intellectual property rights.

4. The method of claim 3, wherein the at least one smart contract is configured to execute a breach workflow against a licensee that does not transfer revenues to the at least one smart contract.

5. The method of claim 3, wherein owners of the plurality of asset-class backed tokens are entitled to sublicense at least a portion of the intellectual property rights.

6. The method of claim 1, wherein the plurality of assets comprises property rights, wherein the distributed ledger oracle is configured to maintain a list of lessees of the property, and wherein the tokenization platform configures the at least one smart contract to enforce collection of revenues from the lessees of the property.

7. The method of claim 1, wherein each asset-class backed token is redeemable for a portion of the plurality of assets.

8. The method of claim 1, wherein the token configuration is received from a token strategy engine configured to generate the token configuration based on a plurality of asset performance attributes provided by a minting party.

9. The method of claim 1, wherein the plurality of assets comprises at least one of:

ownership of land and usage rights to the land,

ownership of of productive asset and an income stream from the productive asset,

derivate asset corresponding to a first set of assets and a derivate asset corresponding to a second set of assets, and

a digital twin of a revenue generating facility.

10. The method of claim 1, wherein each of the plurality of asset-class backed tokens are backed by a first asset of the plurality of assets and a second asset of the plurality of assets, wherein the first asset is a first type of asset and the second asset is a second type of asset, wherein each asset-class backed token comprises a plurality of attributes including a first asset identifier attribute that identifies the first asset, a first asset amount attribute that identifies a portion of the first asset, a second asset identifier attribute that identifies the second asset, and a second asset amount attribute that identifies a portion of the second asset.

11. The method of claim 10, wherein the plurality of attributes further include:

at least one of an availability trigger that specifies when the first asset becomes available for redemption or an expiration trigger that specifies when the first asset is no longer available for redemption, or

one or more of token redemption rules or token governance rules.

12. The method of claim 1, further comprising:

generating a minting schedule based on the token configuration; and

after a time period specified by the minting schedule, generating additional asset-class backed non- fungible tokens backed by the plurality of assets.

13. The method of claim 1, further comprising:

generating, using a token simulator system, an estimated value of the plurality of assets;

determining, based on the estimated value of the plurality of assets, an estimated value of each token of the plurality of asset-class backed tokens; and

transmitting, to a marketplace system, an indication of the estimated value of each token of the plurality of asset-class backed tokens.

14. The method of claim 13, wherein the marketplace system sets a minimum price of each of the plurality of asset-class backed tokens based on the estimated value of each token of the plurality of asset-class backed tokens.

15. The method of claim 13, wherein the estimated value of plurality of assets includes an estimated income produced by an income stream asset.