Claims

1. A knowledge distribution system for controlling rights related to digital knowledge, the system comprising:

an input system configured to receive and validate an instance of digital knowledge from a user, wherein validation includes verification using a digital signature or cryptographic key;

a tokenization system configured to tokenize the digital knowledge such that the instance of digital knowledge can be manipulated as a token;

a ledger management system configured to:

create and manage a distributed ledger;

store the tokenized digital knowledge via the distributed ledger; and

provide provable access to the digital knowledge, wherein providing provable access comprises recording an access transaction in the distributed ledger; and

a smart contract system in communication with the distributed ledger, the smart contract system configured to:

implement a smart contract via the distributed ledger, wherein the smart contract comprises tokenized digital knowledge, and a triggering event;

perform a smart contract action with respect to the tokenized digital knowledge in response to an occurrence of the triggering event;

manage the smart contract action in response to the triggering event, process commitments of a plurality of parties to the smart contract; and

manage rights of control of and access to the tokenized digital knowledge according to the smart contract.

2. The knowledge distribution system of claim 1, wherein the smart contract further comprises:

a smart contract wrapper configured to add intellectual property to an aggregate stack of intellectual property, or

a smart contract wrapper configured to:

perform an operation on the distributed ledger to add intellectual property;

commit parties in the distributed ledger to an apportionment of royalties for the added intellectual property; and

process a commitment of a party to a contract term on the distributed ledger.

3. The knowledge distribution system of claim 1, further comprising:

an account management system in communication with the distributed ledger, the account management system configured to facilitate creation and management of a plurality of user accounts corresponding to a plurality of users of the knowledge distribution system, or

a user interface system in communication with the distributed ledger, the user interface system configured to present a user interface to a user of the knowledge distribution system, wherein the user interface enables the user to view data related to an instance of the digital knowledge.

4. The knowledge distribution system of claim 1, further comprising a marketplace system in communication with the distributed ledger, the marketplace system configured to:

establish and maintain a digital marketplace; and

visually present data corresponding to an instance of the digital knowledge to a user of the knowledge distribution system.

5. The knowledge distribution system of claim 1, further comprising:

a knowledge datastore in communication with the distributed ledger, the knowledge datastore configured to store data related to the digital knowledge,

a client datastore in communication with the distributed ledger, wherein the client datastore is configured to store data related to a plurality of users of the knowledge distribution system, or

a smart contract datastore in communication with the distributed ledger, wherein the smart contract datastore is configured to store data related to the smart contract.

6. The knowledge distribution system of claim 1, further comprising a reporting system in communication with the distributed ledger, the reporting system configured to:

analyze the tokenized digital knowledge, resulting in an analytic result; and

report the analytic result.

7. The knowledge distribution system of claim 1, wherein implementing the smart contract comprises using a parameterizable smart contract template to generate the smart contract.

8. The knowledge distribution system of claim 7, wherein the smart contract comprises a parameter based on a type of the digital knowledge to be tokenized.

9. A computer-implemented method for controlling rights related to digital knowledge, the computer-implemented method comprising:

creating and managing a distributed ledger, wherein the distributed ledger comprises a plurality of blocks linked via cryptography distributed over a plurality of nodes of a network;

tokenizing the digital knowledge;

storing the tokenized digital knowledge via the distributed ledger;

implementing and managing a smart contract, wherein the smart contract comprises a triggering event, the tokenized knowledge, and a corresponding smart contract action and is stored in the distributed ledger;

receiving and validating an instance of the digital knowledge, wherein validation includes verification using a digital signature or cryptographic key;

processing commitments of a plurality of parties to the smart contract;

managing, according to the smart contract, rights of control of and access to the tokenized digital knowledge;

performing, in response to an occurrence of the triggering event, the corresponding smart contract action with respect to the tokenized digital knowledge; and

managing the smart contract action in response to the triggering event.

10. The computer-implemented method of claim 9, further comprising:

crowdsourcing information regarding an element of the instance of the digital knowledge; and

updating the smart contract in response to the crowdsourced information.

11. The computer-implemented method of claim 10, wherein the crowdsourced information comprises information regarding: a knowledge provider, or a knowledge recipient.

12. The computer-implemented method of claim 9, further comprising:

adding intellectual property to the distributed ledger;

committing parties to an apportionment of royalties for the added intellectual property; and

processing a commitment of a party to a contract term.

13. The computer-implemented method of claim 9, further comprising:

creating a user account;

receiving a request from a user account to display data related to an instance of the digital knowledge;

confirming access to the instance of the digital knowledge allowed for the user account; and

presenting a user interface configured to display the data related to an instance of the digital knowledge.

14. The computer-implemented method of claim 13, further comprising:

creating a user account; and

issuing a public access key and a private access key to the user account, wherein the access keys correspond to a respective level of access.

15. The computer-implemented method of claim 9, further comprising:

buying or selling the digital knowledge, or

creating and issuing a currency token associated with the distributed ledger.