

IKEcoin:

A decentralized token economy empowering humans with
controlling ownership of their own social media data

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June 2021



Abstract

IKEcoin is a social sign-on protocol that allows individual consumers to trade their data for personal profit. This whitepaper describes the motivation and need for this new data marketplace, an overview of the system design and token economy, and a roadmap for creating the first version of IKEcoin.

1 Motivation

The purpose of this project is to disrupt the data market by giving individual consumers controlling ownership over their own personal social media data. Data is commonly referred to as the new oil because it is one of the most valuable assets in today's economy. Organizations use data to drive decision making, automate complex processes, and curate personalized experiences for their customers. Although companies view this data as hugely valuable asset to drive their business, individual consumers are not directly compensated when their personal data is collected or used.

Humans should own their own data as a personal asset. They should be given the choice to either sell it for profit, or keep it private. The marketplace for these data transactions should be clear and easy to use so all humans can fairly engage in the data market.

IKEcoin is a decentralized authorization protocol that supports fair data transactions. The IKEcoin auth is a social login method that allows users to log into websites with a single username and password. This single login authorizes organizations to access the user's data from all social media accounts the user has linked to their IKEcoin. As a result IKEcoin creates a new marketplace where data is the gold-standard for the value of the tokens traded.

2 System Design

Coming soon...

3 Token Economics

Coming soon...

4 Marketplace

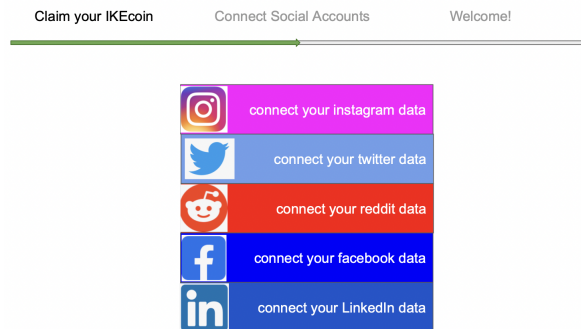
Economic Agents

- *User*—An individual consumer who has established ownership over their data by claiming their IKEcoin and connecting their social media accounts to their token.
- *Customer*—A company seeking to obtain access and legal authorization to the User's data.
- *Data Creator*—A social media platform that generates User's data.

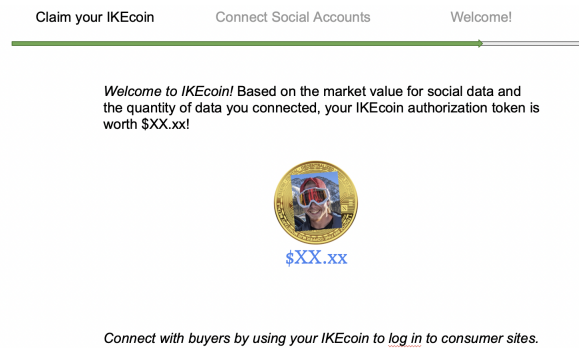
Data Transaction Example

There are several steps in a successful IKEcoin transaction between the User and Customer. Consider this example where Isaac is an avid social media user with a passion for skiing, and he is connecting his data with an e-commerce company specialized in selling ski equipment. The steps in the transaction are;

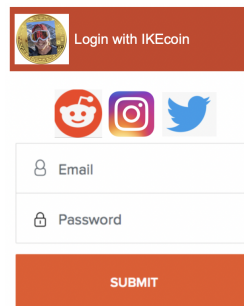
1. Isaac sets up his IKEcoin account by claiming his IKEcoin at ikecoin.com. He connects his social media accounts to his IKEcoin auth protocol.



2. The value of his IKEcoin is based on the fair market value for the data, the number of accounts linked, and the size of the data he connected
3. An e-commerce company focused on selling ski equipment has enabled IKEcoin auth at login. They have written a clear terms of service



agreement detailing how they will use data obtained through IKEcoin auth. Isaac accepts this agreement and uses his IKEcoin auth to log in to the website



4. The e-commerce site pays Isaac for access to his data in IKEtokens
5. The e-commerce website uses Isaac's social media data to improve their machine learning algorithm that automatically produces personalized product recommendations
6. Isaac buys the new set of ski boots recommended to him by the machine learning algorithm

Benefit to the User

- The User indirectly profit from the sale of their data
- The User chooses who they sell their data to

Benefit to the Customer

- The customer easily collect large amounts of data on their users to enhance their data-driven projects
- The customer obtains direct legal authorization from the user to access and use their data
- The data for a single user is already joined across multiple social accounts so the customer can create a experience for their users and easily manage their user's profiles
- By allowing users to log in with IKEcoin auth instead of a single social login such as facebook or Instagram, the customer is able to collect data from multiple social media accounts instead of one per user

Benefit to the Data Curation

- IKEcoin creates an incentive for Users to create more social median accounts to connect to their IKEcoin
- IKEcoin creates an incentive for Users to use each social media platform more as a method to generate more data

5 Roadmap/MVP definition

The first version of IKEcoin requires the following components of functionality:

Website : the IKEcoin website where users can claim and manage their IKEcoin.

Software : a Software Development Kit(SDK)for developers to use to easily integrate IKEcoin auth onto their websites.

Token : the decentralized IKEcoin token.

The first version of IKEcoin will support a limited list of social accounts. We will continue to add new sources of data as we continue to build out IKEcoin. The social accounts we will focus on in the MVP are determined based on the quality of data and popularity of the platform.

- Facebook
- Instagram
- LinkedIn
- Reddit
- Twitter

6 Risks

There are a few main risks identified for this project. Most risks involve the Data Creator's willingness to allow the user sell their own personal data.

- ◇ The Data Creators may choose to shut down user's access to their own data through the APIs.
- ◇ The Data Creators may start directly selling the users data to compete with the users in new market.
- ◇ The Customers may not be willing to pay the users for the data.