



Gbit – Genesis Manifesto

Preamble

What is decentralization? What is the goal of decentralization? What is the source or the mytho-genesis that creates the formation of similar ideas by multiple persons in diverse locations; seemingly unconnected other than by the common idea. These ideas transform from nascent notions into actions that can predicate global technological and societal change. These are not idle musings of esoteric mystics but the growing understanding of the science of information and its origins.

There are cosmological myths that seemed to have generated simultaneously across the planet in diverse cultures – perhaps with different emphases but with the same general theme, for instance - a creator God. In just about every culture on the planet, there also developed simultaneously, the centralized acquisition model of wealth and the stratification of societies. With that stratification came the racialization of civilizations. This model of centralization, stratification and racialization persists to this day through centralization and the objectivization of people as a-means-to-an-end.

The feudal systems of the past have been replicated. Today, great wealth is disproportionately aggregated into state systems (through taxation and resource exploitation), corporations through capital markets, and individuals through diverse capital acquisitions. The stratification layers are those that: support these groups, those that support the supporters and those that work from paycheck to paycheck outside of the acquisition channels and finally the racial divides that promote labor arbitrage – paying less for the same value based on race and/or geography.

Anyone can review the history of these evolving cultural developments and recognize that the same structures persisted from tribe to civilization to empire. You will also see the acceleration

of these developments through technological advancement. None more so than the advances in communication and the spread of information.

The telephone brought people closer together through near instant ability to talk to one another, the radio sent information broadcast around the globe, the television shared the images of news, culture and opinion that still unites and divides to the full circle of renewed stratification and tribalism.

The advent of the internet communication started with government and academic interaction and spread to business and then society at large. Soon, as predicted, there would be an acquisition divide of those with access to information and those without. Followed shortly by those that found the information embedded in the data had intrinsic financial value and the divide widened between those who used the data for financial gain and those that simply viewed data as a commodity.

Then, as the price of technology fell, and the spread of innovation increased, the democratization of information began; seemingly for all - but in reality, only for the few. New wealth has been created – for some, in some places.

Just as for financial wealth, information wealth has been aggregated in the hands of the few and the models of the past have subsumed the potential of global democratization of value into the feudal systems of stratification that continue to persist. This is the continuity of the centralization model, regardless of whether by governments, groups or individuals.

However, the same technologies of speech, vision and information sharing have initiated a *genesis* of a new opportunity. ***The democratization of value.***

Enter the blockchain and distributed ledger.

While data is distributed across many locations, its use and exploitation are fundamentally centralized. Google, Amazon, Facebook, Apple etc. have large data pools. Pools created by the exchange of personal user data in exchange for access to new innovations and services. User data, is partitioned for value, sold to multiple bidders with revenues accruing to these monolith data organizers.

Currency has long been valued on the basis of data instead of gold or other hard assets. That data value is held closely and centrally by sovereign nations that issue the currency and the markets that trade it. Crypto currencies are decentralized units of value that trade openly on platforms spread across the globe with software that is developed democratically and shared among processors and owners of the currency. The technology that undergirds these currencies is the blockchain. A chain of immutable records that store each-and-every event associated with transactions.

Beginning with Bitcoin, the underlying value of blockchains and their corresponding cryptocurrencies has evolved from one based on simple payments to one based on smart contracts. The trend is now focused on decentralized services and applications. This evolution continues with each addition and iteration of each new blockchain and crypto initiative.

While the developers and holders of cryptocurrencies (the investment community) have now begun to understand that providing user value in the forms of real-world products and services is the only way to ensure continuous growth. Notwithstanding, most blockchains continue to rely on *proof-of-work* and *proof-of-stake* operator processing incentives to provide value both of which rely on blockchain mining.

The problem with *proof-of-work* and *proof-of-stake* blockchain mining is that they are inefficient as an incentive because they substitute economic and environmentally expensive compute cycles for real value and blockchain is already obsolete as a velocity based technology because of its poor performance – it places a hard cap on the volume and velocity of transactions. This is unacceptable since volume and velocity are critical to the growth of any asset class and fundamental to the measurement of its value.

Genesis Bit – Gbit – Genesis Market Place

Enter Proof-of Value

Arguably, a better solution is to create incentives through the development and use of data products and services of *any* asset class whose present and future value can be measured in monetary terms. This Proof-of-Value allows anyone to use the same mathematics, tools and methods – commonly applied to all other common forms of economic activity to determine for themselves whether or not a blockchain or a cryptocurrency has any real value.

By analyzing data in this way, one comes to understand that the value of the DATA is - its use. This insight is key to establishing the relationship of data to actual money. Therefore, *data and money* may now operate under the same principles. When measured in terms of use (usefulness) stability and fungibility, they are for all intents and purposes, essentially equivalent.

Data is valuable. *Everyone's* data is valuable: companies and governments all vie to own it, control it and benefit from it. With these centralized aggregators of data, no one individual knows or reaps the value of their own data. People have these organizations literally reaching into their pockets for value in exchange for “free” access to innovative services.

Whilst governmental protections for data privacy is increasing it is imperfect and does not ensure the owner's rights to control the use of their own data.

Genesis Market Place

The global democratization of the value chain for individuals monetizing their own data is about to arrive. The guiding principle of the Genesis Market Place is this: there should be *no limitations* on a person or entity's ability to access, store, organize, manage and monetize their own structured and unstructured data. Creators and consumers of data should have the ability to transact in any way they choose.

The very same processes that drive the creation, pricing and arbitrage of both physical and financial products and services can equally drive the creation, pricing and arbitrage of DATA products and services.

The Genesis Market Place is an open environment. It enables a data value chain that provides equal opportunity to every participant regardless of whether they are a first, -second, or -third party provider or consumer of data and created data products. Genesis Market Place is designed to enable primary, secondary and tertiary markets.

The augmented data value

To establish a primary market for data assets, the ability to exchange and augment existing data must be present. Base data by itself has limited value. Data augmentation, the creation of new data from existing data provides an almost unlimited potential for the creation of new value. This new value is created through the addition to the market of new data products and services that themselves may be augmented to create more new products. Genesis provides the means where the enabled primary, secondary and tertiary markets can co-exist and flourish. This is enabled within and even outside the Genesis Market Place through the addition of base data and its augmentation through, analytics, machine learning, smart contracts, and distributed applications (dApps). These include business applications, consumer applications, web services and even general purpose applications. *Data augmentation enables the data value chain.*

Data as currency

As is the case with any asset class, using data as the basis for currency requires data/value augmentation, velocity and volume information. Genesis uses its NOMAD software (networks of meaning) to monitor the relationships between people, the things they interact with and the velocity with which they interact as a measure of value. To address the velocity and volume problem, the full expression of the value proposition requires the replacement of the blockchain clock with a high performance, low latency, first in first out (FIFO) transaction processing system.

The resulting wealth of transactional data requires analytics engine(s) capable of both capturing and describing in detail, the system's monetary value as measured by the data's use at any point in time and then continuously over time. All this at the speed of thousands of completed transactions per second.

Blockchain Migration

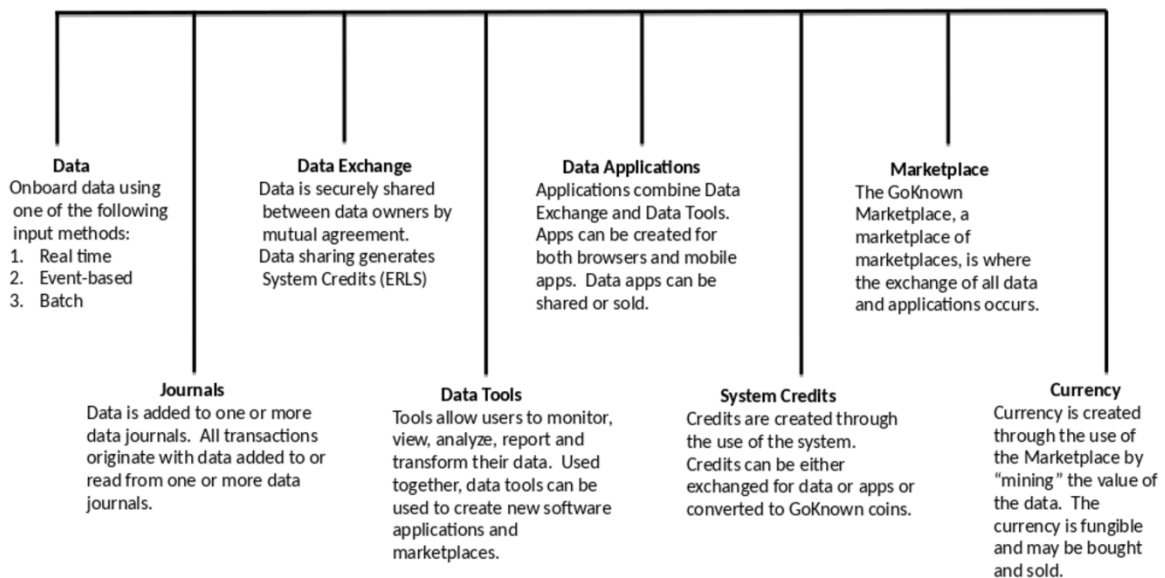
The Genesis Market Place achieves all this through alternate immutable records management. But an equally important goal is to make this high throughput, data-valued solution available to the existing blockchain and cryptocurrency community as a migration strategy. A process that enables a relatively painless wholesale movement away from *proof-of-work* and *proof-of-stake* solutions to a fully distributed – decentralized computing environment with all the benefits of blockchain and *none* of its drawbacks – especially transaction processing.

The result. Genesis Market Place will provide a platform able to support the development of any software application, any cryptocurrency and business model and any form of data and cryptocurrency exchange whether private or public - regional or global.

The basis of blockchain replacement

All implementations whether public or private, maintain: *proof-of value*, *-proof-of-sequence*, and *proof-of-record*. Proof of sequence means that every transaction entering the Genesis Distributed Ledger is processed immediately in the order that it was received. Proof-of-record uses identity, data security, concurrency control and both data and transaction immutability to guarantee the integrity of each transaction.

Genesis Market Place



The primary design goals of the Genesis Market Place are:

- to maintain the ownership and privacy of its user's data
- to enable data transactions of any type
- to provide operator incentives based on proof-of-value
- to enforce mutually agreed upon contractual relationships for each transaction
- to record detailed analytics data for each transaction
- to create an agile development platform that requires little or no programming
- to support interoperability with existing data stores and applications
- to maximize the value – volume – and velocity of data assets, products and applications

The new paradigm

The decentralization enabled by the Genesis Market Place creates the basis for the decentralization and democratization of data. It breaks down the barriers of stratification, racialization and exploitation of user's data for the few and frees it for wealth creation for the many. Gbit Genesis Bit is the manifestation of the first digital, crypto currency designed to propagate a new generation of fast moving, transactional based value chain coins and alternate digital assets.