

RESUME: SAW Simple Wins Concepts LLC / Steven J. McGee Consultant, patent applicant

June 2004 - Simple Always Wins Concepts LLC incorporated – a woman owned micro-business.
Owner's father is Blackfoot Indian. Web Page [LINK http://sawconcepts.com/index](http://sawconcepts.com/index)

United States Army Signal Corps Officer ROTC Full Scholarship Recipient 1982-1993

Masters of Science Information Systems Western International University Phoenix AZ 93 - 96

Defense Contractor for Validity Systems, SAIC International, MITRE, BAE Systems 1993 – 2002

United States Patent and Trademark patent application #13,573,002 2004-17 [LINK](#)

WEB: [LINK http://sawconcepts.com/index](http://sawconcepts.com/index) LINKEDIN: <http://linkedin.com/in/sawconcepts> [LINK](#)

Slideshare / [LINK http://slideshare.net/StevenMcGee2/](http://slideshare.net/StevenMcGee2/)

GITHUB: [LINK](https://github.com/Beacon-Heart/Heart_Beacon): https://github.com/Beacon-Heart/Heart_Beacon

SCRIBD Documents, Slides <https://scribd.com/user/11781571/Steven-McGee> [LINK](#)

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WordPress Page: [LINK](#) / PATREON [LINK: https://patreon.com/beacon_heart](https://patreon.com/beacon_heart)

Climate tipping point, economic collapse... What is the plan? The Heart Beacon Cycle Time —
Space Meter USPTO 13/573,002 is built standing on the shoulders of giants. Milton Friedman
and his K% rule, Admiral “Amazing Grace” Hopper and the world's first computer compiler and
the alpha-numeric brevity codes ideal for today's Internet of Things, Artificial Intelligence A.I.



“A day will come when there will be no battlefields, but markets opening to commerce and
minds opening to ideas”. Victor Hugo



FIGURE 1: FEDCOIN / WORLD COIN ECONOMIC HEARTBEAT

Economic Reset solution: form economic trade federations incentivizing environment friendly business practices leveraging Bitcoin's micro-payment capabilities supporting the TERRA Trade Reference Currency TRC demurrage resource handling charge. SOURCE [LINK: http://www.sawconcepts.com/index/id9.html](http://www.sawconcepts.com/index/id9.html)

Building blocks:

- Firefly-Heartbeat Time – Space Sync neural network emulation algorithm improved by matching firefly async / sync process to closest Operational Tempo OPTEMPO heartbeat time epoch cycle
- TERRA TRC TRADE REFERENCE CURRENCY Commodity (crops etc., backed)
- WAVES: TOKENIZES NATIONAL CURRENCIES
- ECONOMIST MILTON FRIEDMAN'S K% RULE



FIGURE 2: Mediation Gateway: Federations practicing sustainable economics / Off Pagiers [LINK](#)

MEDIATION GATEWAY:

- Between holders of unused resources and unmet needs of impoverished billions
- between centralized / decentralized economic structures, activities, entities
- between entities, organizations, trade federations adhering to rules, laws, consensus metrics, meters and non-conforming entities, organizations, corporate clusters
- Equilibrium algorithm (s) developed by Princeton's John Nash to curb any single entity from absorbing through attrition all other entities holdings
- Consensus algorithm using mathematics, statistical mean Time - Space sampling to arrive at consensus between the 99% and the .01%
- Between individuals joining fair trade federations dedicated to equitable and Ecologically responsible actions, econometrics // short term profit corporate entities, organizations



FIGURE 3: FIREFLY INSPIRED HEARTBEAT SYNCHRONIZATION / World Economic Heartbeat

Firefly - Heartbeat Algorithm:

- 1) Consensus 2) Neural Network emulation
- 3) Stochastic Harmonization 4) Universal Event / Alert Bus

Firefly inspired Heartbeat Synchronization: in a paper entitled Firefly-inspired Heartbeat Synchronization in Overlay Networks by the University of Bologna Trento Italy along with the University of Szeged, Hungary: "Heartbeat synchronization strives to have nodes in a distributed system generate periodic, local "heartbeat" events approximately at the same time. The heartbeat synchronization protocol for overlay networks is inspired by mathematical models of flash synchronization in certain species of fire flies. Nodes send flash messages to their neighbors when a local heartbeat triggers. Fireflies adjust the phase of their next heartbeat based on incoming flash messages using an algorithm inspired by mathematical models of fire-fly synchronization. Heartbeat synchronization strives to have nodes in a distributed system generate periodic, local "heartbeat" events approximately at the same time. It differs from classical clock synchronization in that nodes are not interested in counting cycles and agreeing on a ID of a current cycle. There is no requirement regarding the length of a cycle with respect to real time as long as a length is bounded and all nodes agree on it eventually.

[LINK](http://sawconcepts.com/index/id22.html) <http://sawconcepts.com/index/id22.html>

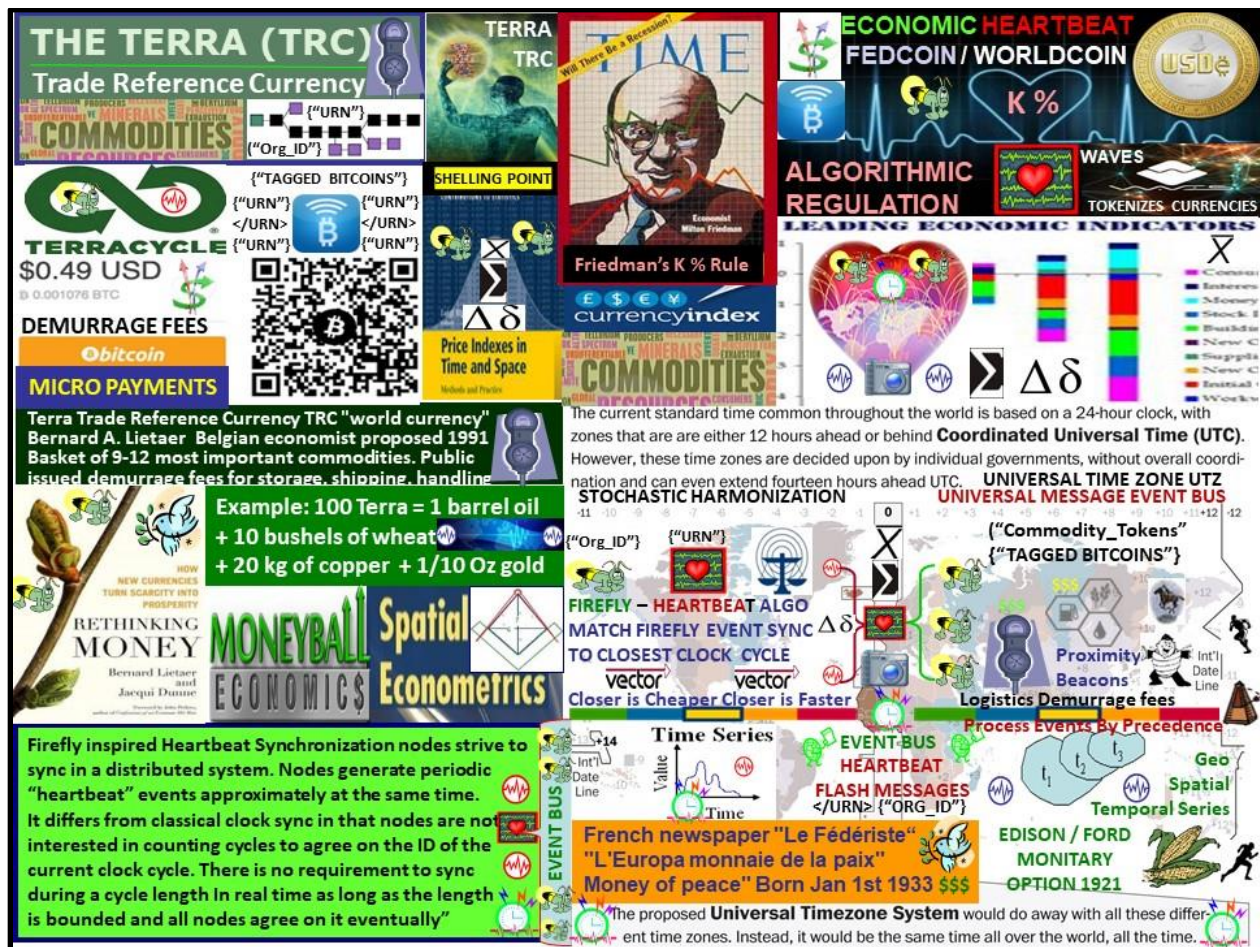


FIGURE 4: TERRA TRADE REFERENCE CURRENCY TRC / BITCOIN MICRO PAYMENTS [LINK](#)

The Terra is a global complementary currency designed to provide an inflation-resistant international standard of value; to stabilize the business cycle on a global level; and to realign stockholder's interests with long-term sustainability. Few know that Edison and Henry Ford recommended a national currency based on a commodity index. Edison thought that crops held their values best over time. Economist Bernard Lietaer's TERRA Trade Reference Currency is ideal given the rise of Bitcoin and the Blockchain's micro-payment capability in concert with the TERRA TRC's demurrage parking, shipping and handling fees. The TERRA Trade Reference Currency: complementary, privately issued, demurrage-charged, backed by inflation-resistant, standardized basket of the dozen most important commodities, services and operates in parallel with national currencies. Terra The Trade Reference Currency, TRC "world currency". Proposed by Belgian economist and expert on monetary systems Bernard A. Lietaer in 2001, based on a similar proposal from the 1930s. The currency is meant to be based on a basket of the 9-12 most important commodities (according to their importance in world wide trade). Terra = reference unit defined as standardized basket of key internationally traded



FIGURE 5: ECONOMIST MILTON FRIEDMAN's K % RULE / Algorithmic Economic Regulation

Economist Milton Friedman predicted the rise of a computer capable of automatically adjusting the inflation rate of money, and this is precisely what we see in the case of bitcoin, as a regulatory algorithm intelligently adjusts the mining difficulty to make the issuance of blocks more or less easy depending on the demand for network hashing power. The computerized function of the bitcoin system boasts intrinsic value which will continue to grow as more users join the fold and the network becomes more valuable for every participant. No money system we have seen to date can claim it is chronologically regulated. The universal construct of time is the backing of the bitcoin digital economy. Satoshi Nakamoto's Bitcoin key building block is a time stamp server.

Using crypto currency and the firefly – heartbeat process, a FEDCOIN / World Coin statistical mean commodity / currency composite price index can be derived. This process is needed to adjust for the myriad Bitcoin variations i.e., fork splits, coin counts, proof of work Vs proof of stake age, velocity, voting assignment methods, coins pegged to precious metals, or to a currency index of 22 other currencies (VEN) that pose an issue to Bitcoin's fungibility 1 to 1 substitution among coins. A coin pegged to a commodity basket index would follow in Thomas Edison's 1921 footsteps. A composite Bitcoin price is published by many different sources daily. A service based on a method to valuate Bitcoin types among a variety of metaphors / memes is needed. A baseball tournament metaphor is a simple method to describe metrics, meters and survey methods accounting for the Internal Revenue Service Bitcoin as property stance. [SOURCE](#)



FIGURE 6: Swords to plowshares: Battlefield digitization Distributed Autonomous Organization process to form Trade Federations for equitable, eco-sustainable economics, econometrics

The term DAO Distributed Autonomous Organization was coined by military think tank RAND in 2001. German military advocated using Battlefield Digitization for OOTW Operations Other Than War in 2004

In 1921, Edison / Ford proposed a crop index based currency. Now there's the internet, the internet of money #Bitcoin Blockchain & Spatial Econometrics The Terra is a global complementary currency designed to provide an inflation-resistant international standard of value; to stabilize the business cycle on a global level; and to realign stockholder's interests with long-term sustainability. From a legal viewpoint, the Terra is standardized "countertrade" (international barter), which is routinely used for over one trillion dollars worth of transactions per year. Legislation on countertrade exists in about two hundred countries, including all the major trading nations. Introducing the Terra would therefore not require new international governmental agreements. Bitcoin blockchain micro payments pair perfectly with the TERRA TRC's demurrage charges to offset costs for temporary storage and transfer of goods. The TERRA Trade Reference Currency: complementary, privately issued, demurrage-charged, backed by inflation-resistant, standardized basket of the dozen most important commodities, services and operates in parallel with national currencies. Terra The Trade Reference Currency, TRC "world currency". Proposed by Belgian economist and expert on monetary systems Bernard A. Lietaer in 2001, the currency is meant to be based on a basket of the 9-12 most important commodities (according to their importance in world wide trade). Terra = reference unit defined as standardized basket of lead economic indicators / commodities SOURCE [LINK](http://sawconcepts.com/index/id36.html) <http://sawconcepts.com/index/id36.html>



Figure 7: Federate and Graduate [LINK http://sawconcepts.com/index/id5.html](http://sawconcepts.com/index/id5.html)

SWORDS TO PLOWSHARE PROJECT: FEDERATION Net Centric Warfare trade federations

FEDERATION: from Latin: foedus, gen.: foederis, covenant characterized by a union of partially self-governing states or regions under a central (federal) government. In a federation, the self-governing status of the component states, as well as the division of power between them and the central government, are typically constitutionally entrenched and may not be altered by a unilateral decision of either party, the states or the federal political body. Individuals, organizations retain AUTONOMY to act on their own behalf.

Reuse of military funded System of Systems research, best practice as a procedural template framework is key to forming and maintaining sustainable Trade Federations as Distributed Autonomous Organizations DAO's / DAC's Corporation. Military's do one thing very well -- organize individuals into organizations <OrgID> and Organizational Units <OU><OU><OU>as widely dispersed autonomous groups working towards collective, synchronized goals following cyclical, iterative procedures. Federation involves fusion between #Bitcoin / military net centric operations both use term DAO Distributed Autonomous Organization DAO term first used by RAND military think tank in 2001 - now used by blockchain community [LINK](#)



FIGURE 9: Earth Day every day on the Bitcoin Blockchain [LINK http://sawconcepts.com/index/id56.htm](http://sawconcepts.com/index/id56.htm)

RBF "the secret to change is build a new model that makes the old model obsolete"

RBF "Earth is a spaceship that cannot be resupplied" = pledge our fealty to Spaceship Earth ?

WHAT IF EVERYDAY IS SPACESHIP EARTH DAY? What if we formed economic trade federations incentivizing environment friendly business practices leveraging Bitcoin's micro-payment capabilities supporting the TERRA Trade Reference Currency TRC demurrage resource handling charges supporting the TERRA Trade Reference Currency TRC by economist Lietaer? For example, closer = cheaper, closer = less fuel used?

Satoshi Nakamoto: "#Bitcoin is intended to be paired with a market place" "the blockchain stores references to market indexes" Globalization involves multi-national corporate entities vying for control of regional resources. It follows that a proven strategy to identify, track, and monitor resources regionally within the global economic matrix is needed. Thomas Edison and Henry Ford proposed a currency based on a commodity basket index circa 1921. Now there is Bitcoin programmable money and the internet's heartbeat, heartbeat messages. All things internet are formed by code formed by time cycles used / not used to process, parse {"syntax"}. Therefore, time cycles and a Rosetta Stone syntax lexicon library are the two main building blocks for Governance 2.0. [LINK: https://supermoney.com/2014/06/thomas-edisons-view-money/](https://supermoney.com/2014/06/thomas-edisons-view-money/)



FIGURE 11: HFT CIRCUIT BREAKER / Blockchain transaction speed algorithmic regulation [LINK](#)

A use case of the firefly inspired heartbeat synchronization algorithm in stock and currency exchanges is algorithmic regulation. For example, improving temporal trade parity between Bitcoin Blockchain & conventional stock exchanges by using the firefly-heartbeat algorithm to take trade speed samples among trade populations across time zones to determine an optimal trade speed / frequency as a statistical mean. Trading velocity far exceeds Bitcoin's current transaction rates estimated to be between 3 - 7 transactions per second and far exceed non-HFT trading capacity. A method is needed to establish temporal trade parity and account for on floor / off floor trading disparity -- enter STAAS Space - Time As A Service using a novel stochastic harmonization algorithm based on the mating behavior of certain species of fireflies that strive to sync during mating activity matched to the closest Operational Tempo OPTEMPO heartbeat cycle. LINK: https://en.wikipedia.org/wiki/Friedman's_k-percent_rule

#dow20k Time for algorithmic regulation, World Economic Forum's HFT Trade circuit breaker / High Frequency Trade / #blockchain speed parity [LINK](#) <http://sawconcepts.com/index/id18>



FIGURE 12: ETHEREUM – CASPER / Heart Beacon Cycle 13/573,002 [LINK](#)

Quote from @DCCCertified @InsideBitcoins "Build mental models that help people wrap their heads around Bitcoin w/o having to understand it". A baseball diamond is a square, is a block. A block is awarded using age (time) or vectors (time / direction / velocity) or voting (tournament league board). A baseball tournament is played on baseball diamonds that are as physical and tangible as it gets -- in every town in America. US Supreme Court Ruling Alice Corp V CLS Bank: "claims ineligible for patent protection under 35 U. S. C. §101 "directed to an abstract idea" ALICE CORP v CLS BANK <http://1.usa.gov/1V91pQe> LINK The Heart Beacon Cycle patent application 13,573,002 is described using a physical baseball league tournament. Physical is the opposite of abstract and therefore, is Alice V CLS Bank compliant.

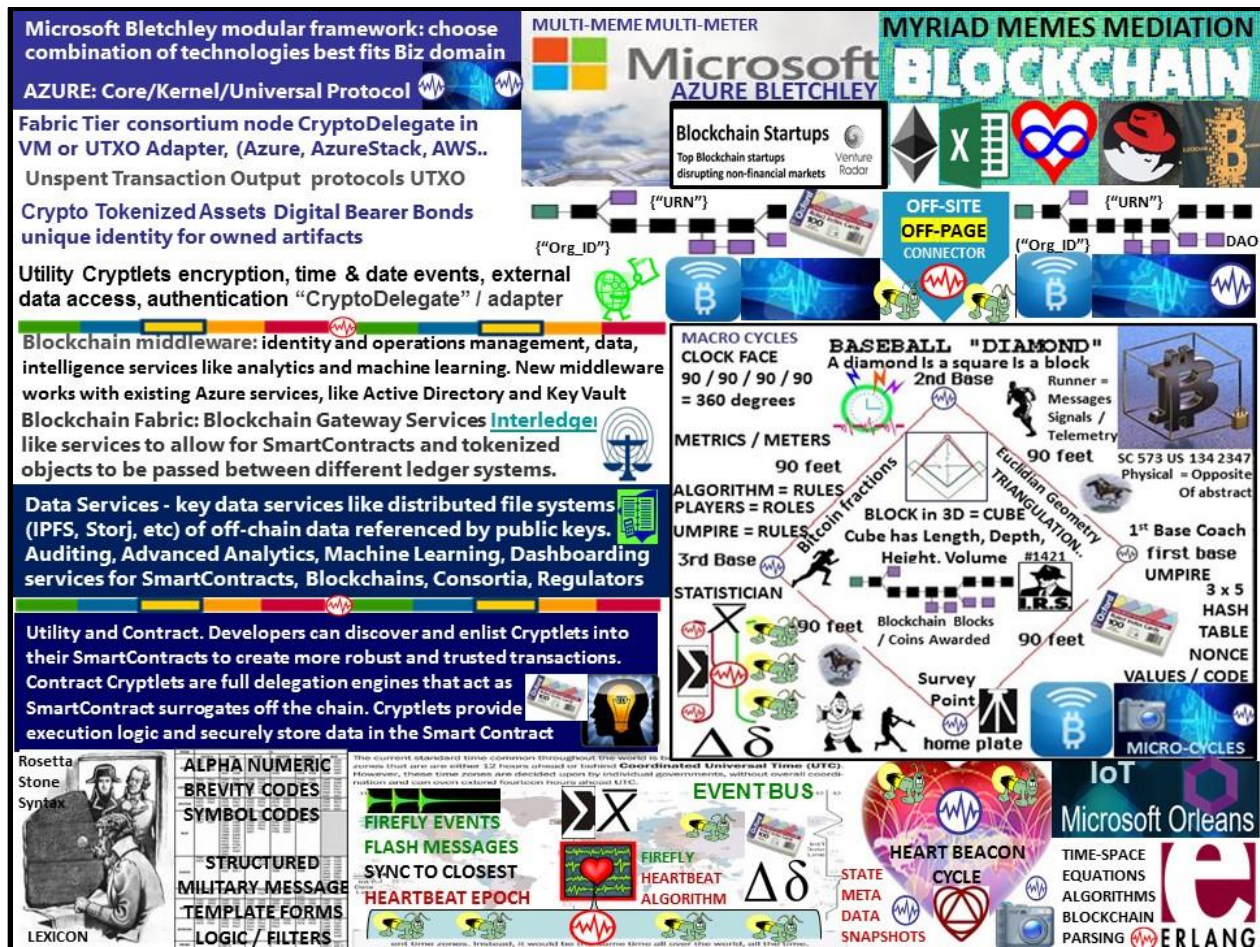


FIG 13: MICROSOFT BLETCHLEY BLOCKCHAIN AS A SERVICE BAAS / HEART BEACON CYCLE [LINK](#)

Quote from @DCCertified @InsideBitcoins "Build mental models that help people wrap their heads around Bitcoin w/o having to understand it". A baseball diamond is a square, is a block. A baseball tournament is played on baseball diamonds are physical and tangible -- in every town in America. The opposite of abstract is physical.

US Supreme Court Alice Corp V CLS Bank: "claims ineligible for patent protection under 35 U. S. C. §101 "directed to an abstract idea" ALICE CORP v CLS BANK <http://1.usa.gov/1V91pQe> [LINK](#)
 Patent application 13,573,002 is described using a baseball league tournament. [LINK](#)
<http://slideshare.net/StevenMcGee2/13573002-the-heart-beacon-cycle-patent-application>

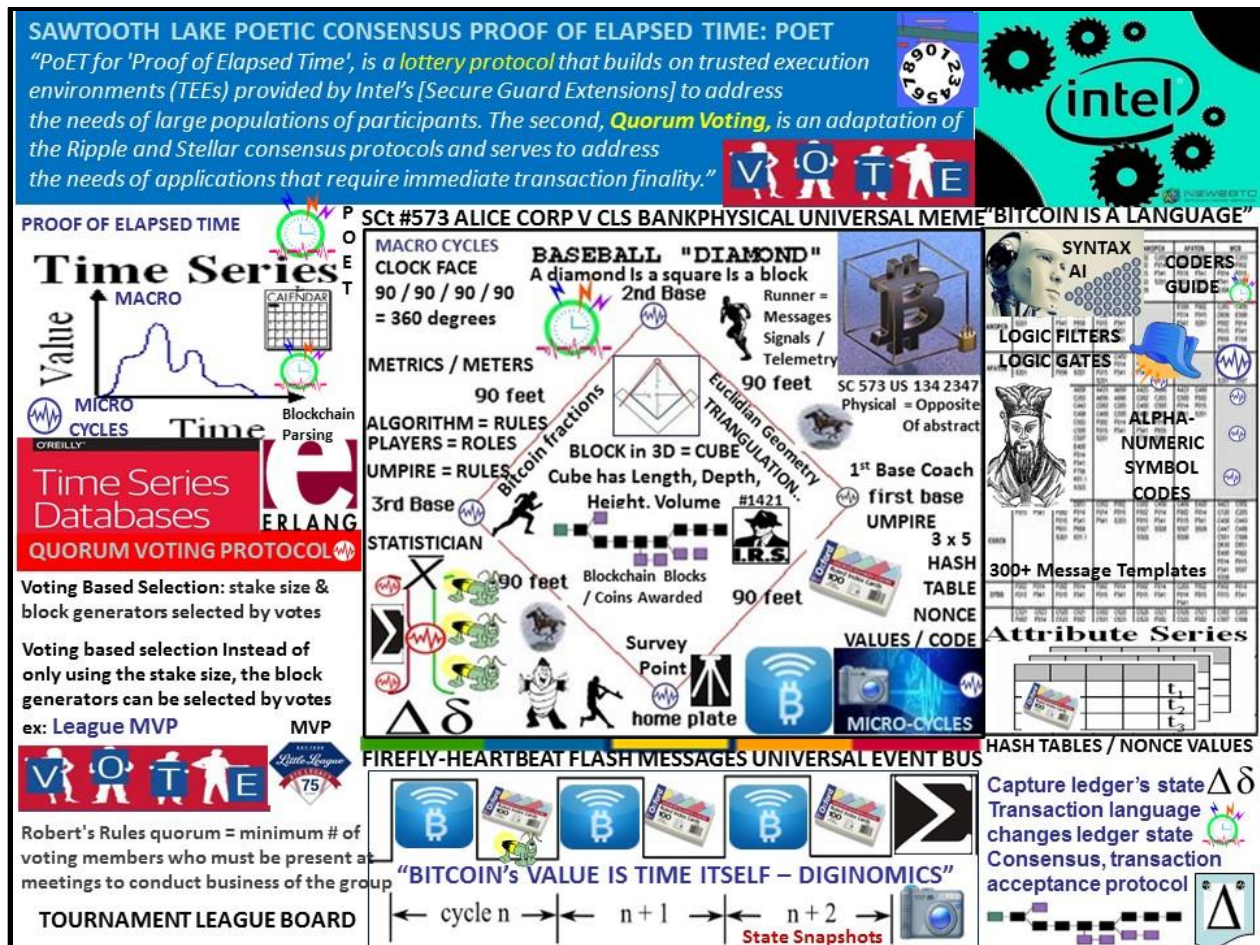


Figure 14 Bitcoin Blockchain PROOF OF ELAPSED TIME POET / QUORUM VOTING INTEL

Web Page: <http://sawconcepts.com/index/id49.html>

Quote from @DCCCertified @InsideBitcoins "Build mental models that help people wrap their heads around Bitcoin w/o having to understand it". A baseball diamond is a square, is a block. A block is awarded using age (time) or vectors (time / direction / velocity) or voting (tournament league board). A baseball tournament is played on baseball diamonds that are as physical and tangible as it gets -- in every town in America.

US Supreme Court Ruling Alice Corp V CLS Bank: "claims ineligible for patent protection under 35 U. S. C. §101 "directed to an abstract idea" ALICE CORP v CLS BANK <http://1.usa.gov/1V91pQe> LINK

The Heart Beacon Cycle patent application 13,573,002 is described using a baseball league tournament. A land use meme and internet survey techniques to define geo-spatial temporal areas in time – space will be helpful in determining the percentage of a coin bought or sold and who, where, when, how much, of a Bitcoin was transacted in context with I.R.S memo 1421 on Bitcoin that deems it property when purchased by a client.

Reference: Patent application # 13,573,002 Heart Beacon Cycle Time - Space Meter:
LINK <http://www.slideshare.net/StevenMcGee2/13573002-the-heart-beacon-cycle-patent-application>