Eco Economic Epochs: Eco sustainable incentives for the programmable Economy - It's about TIME

THESIS: All things internet, internet of programmable money are formed using:

- 1. Time epochs created by oscillating quartz crystal based silicon chips
- 2. Syntax used / not used as programming instructions during epoch time cycles

Time epochs / syntax: two main building blocks in creating the Artificial Intelligence A.I. powered global economic system of systems / Earth Intelligence Network EIN / Web 3.0 and the programmable economy in terms of temporal consistency, interoperability, and consensus.

PROPOSAL: Code Eco sustainable incentives into programmable economic system of systems engineering framework reusing / leveraging NATO systems of systems engineering best practice.

- 1. Reuse OPSCODE brevity codes mapped to message symbol sets enabling Artificial Intelligence / human interaction (i.e., man machine interface).
- 2. Apply lessons learned (bandwidth discipline, interoperability, OPTEMPO sync cycles... intrinsic to NATO SOP swords to plowshares following German military proposal use cases circa 2003.

NATO has invested 30 years of mapping OPSCODE brevity codes to symbology / symbols / symbol sets contained in 300 plus message set / use cases as part of Battlefield digitization, Net Centric Warfare NET Enabled Operations NEO NETOPS. Blockchain, crypto currency developers are recreating, reinventing this decades old, tedious, time intensive, labor intensive, expensive... wheel.

The Heart Beacon Cycle Time - Space Meter USPTO 13/573,002 is an adaptive procedural template / checklist of ideas, methods, processes, procedures, algorithms, tools... used to organize diverse peoples speaking many different languages through the universal language of symbols into Distributed Autonomous groups organized in time - space to achieve common goals.

PROJECT BEACON: Reuse NATO's system of systems syntax lexicon OPSCODE brevity code structured data exchange, heartbeat micro to macro cycle Universal Time Zone UTZ sync to support an EIN Earth Intelligence Network neural net emulation. We have a clear and present opportunity and responsibility to improve temporal, geo-spatial, syntactic - semantic consistency, interoperability among myriad programmable money memes among a federated, distributed system of systems.

The Heart Beacon Cycle Time - Space meter is a distributed system of systems engineering signaling -telemetry temporal, geo-spatial, semantic - syntactic sync and consensus foundation framework. A an adaptive procedural template checklist of tools, algorithms, cryptographic modules, it supports DAAE Distributed Autonomous Automated Economy Eco - Economic Heartbeat.

The Heart Beacon Cycle is an adaptive procedural template checklist of things, processes, tools, building blocks useful to form, maintain Eco-responsible trade federations. Each item in the procedural template checklist links to a detailed treatise.

We can synchronize ourselves, our cities, towns, cyber-communities in time — space for a common purpose: shared, common, ecologically sound, responsible econometrics.

The Heart Beacon Cycle Time - Space meter is a swords to plowshares DAO Distributed Autonomous Organization project using NATO's Situational Awareness system of systems engineering framework, processes, procedures and internet building blocks to establish an Ecologically sustainable Economic Heartbeat, neural network emulation for the EIN Earth Intelligence Network and heartbeat sync pulse for a Universal Time Zone UTZ supporting a one world currency. It's syntax lexicon library of OPSCODE brevity codes used in programmable money, the programmable economy is descriptive of all things internet, internet of money down to the quantum computing, quantum blockchain level.

This course of action in challenging times involves reuse of over 300 NATO cases supported by hundreds of message sets further described in spread sheet row - column format populated by thousands of brevity OPSCODES mapped to symbols essential to artificial intelligence man - machine interface. NATO bases are small cities that transact virtually every good, item, commodity with it's host nation. Why reinvent the syntax lexicon Rosetta Stone wheel? Think of this as a system of systems tool to accelerate an EIN Earth Intelligence Net – see Project #UNRIG for mor information.

The Heart Beacon Cycle Time - Space meter is a signaling, telemetry distributed systems engineering framework improving temporal, geo-spatial, semantic - syntactic sync & consensus among DAAE Distributed Autonomous Automated Economy system of systems reusing Battlefield Digitization, Net Enabled Operations engineering swords to plowshares.

Eco sustainable incentives integral to an Economic system of systems SoS engineering framework used by NATO for decades. Digital Nations need an (Eco sustainable) Economic Heartbeat & a consistent syntax lexicon library. Crypto economics needs a universal syntax lexicon digital base Artificial Intelligence A.I., quantum blockchain heartbeat beacon to synchronize, sample tokenized commodities across a stochastically harmonized UTZ Universal Time Zone supporting an Earth Intelligence Network EIN see Robert David Steele's #UNRIG proposal @ http://robertdavidsteele.com

Economic #RESET is a mathematical certainty. Do we RESET the global system of systems as is or will we re-engineer using NATO system of systems engineering standing on the shoulders of giants?

IF / WHEN: Climate Change causes a drop in crop commodity food production by 20–25 % while population continues to grow, THEN it follows that this condition will become a matter of national security. It's TIME to implement an Ecologically Sustainable Economic Heartbeat ELSE face > greater chaos by not leveraging proven system of system structured data exchange methods. An ecologically sustainable economic heartbeat is needed. Why wait until crisis, DEFCON 2 stage?

IF climate change causes a drop in crop commodity by 20–25 % while population grows, **THEN** this condition will become a matter of national security. THEN this will require revisiting Belgian Economist Bernard Lietaer's TRC Trade Reference Currency **ELSE** face >socio economic chaos TERRA Trade Reference Currency by Economist Bernard Lietaer LINK http://lietaer.com/2010/01/terra/

Ecologically sustainable economic transactions need to be incentivized among the world's Ecological and Economic system of systems. The world's systems need to be time-space synchronized, stochastically harmonized across the one world, global UTZ Universal Time Zone via heartbeat messages using universally shared, standards based OPSCODE brevity codes drawn from a universal structured data exchange syntax lexicon with over 300 use case templates e.g., NATO's lexicon library

System of Systems Engineering Framework: Crypto economics needs a universal syntax lexicon digital base Artificial Intelligence A.I., quantum blockchain heartbeat beacon to synchronize, sample tokenized commodities across a stochastically harmonized UTZ Universal Time Zone supporting an Earth Intelligence Network EIN. It is time to build a new economic system of systems framework.

All things internet, net of money blockchain cryptocurrencies are formed by unicast, multicast, anycast. Programmable money's improvements are in cryptography. The term DAO Distributed Autonomous Organization was coined by the RAND Corporation circa 2000.

Nobel Prize winning Economist Milton Friedman's K% rule is an "economic heartbeat". K-Percent Rule DEFINITION: The K-Percent Rule proposal by economist Milton Friedman was the central bank should increase the money supply by a constant percentage every year. The K-Percent Rule proposes to set the money supply growth / reduction at a rate equal to the growth of real GDP each year. K-Percent Rule — Investopedia http://www.investopedia.com/terms/k/k-percent-rule.asp

HEARTBEAT SCOP Administrative Interface as an Internet, net of Money configuration tool. SCOP is a tool that exemplifies how the internet really works. There are no levels, layers, packets, frames, bits, ether gas, hashgraphs, bytes motes, block chain blocks, pings, packets... There are only 1) epoch time intervals, 2) syntax used as if, then, else instructions. Time epoch time cycles used / not used to parse, process syntax as instructions are the only building blocks available to scale the blockchain. Blockchain scaling usually involves a discussion of "layers" when the reality is that parsing, processing syntax (OPSCODE brevity codes, shards, hashes) is passed from the genesis Epoch Time Cycle 1 to a temporal follow on epoch time cycle often involving geo-spatial, temporal separation.

Project Task: form federations of Distributed, Autonomous Organizations DAO communities, states, sovereign nations using an adaptive procedural template checklist promoting synchronization among geo-spatially and temporally dispersed groups using a common syntax – symbol set lexicon. Federated groups activities are synchronized geo-spatially across time - space to achieve synergy, synchronicity of events orchestrated from micro to macro cycles from grassroots to capitals.

Heart Beacon Cycle Time – Space Meter: One method fits many not one size fits all



Fig 1: Eco sustainable Economic Epochs coded into a systems framework



Fig 2: Eco sustainable Economic Epochs coded in an economic framework

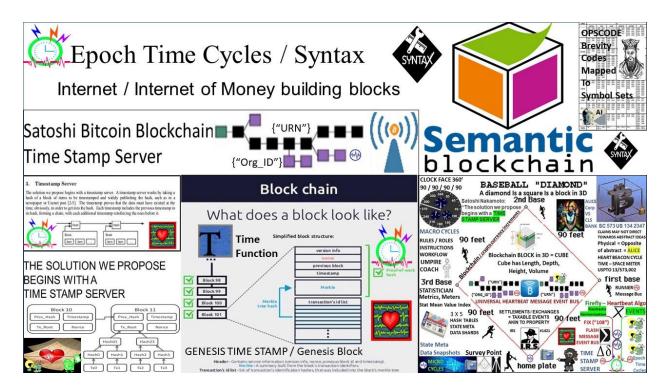


Figure 3: Epoch Time Cycles / Syntax two main building blocks for web, web of \$\$\$

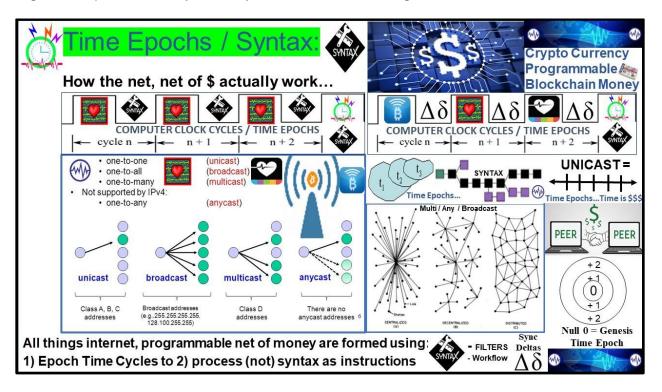


Figure 4:Time Epochs / Syntax: how the internet actually works: Unicast / Multicast IP

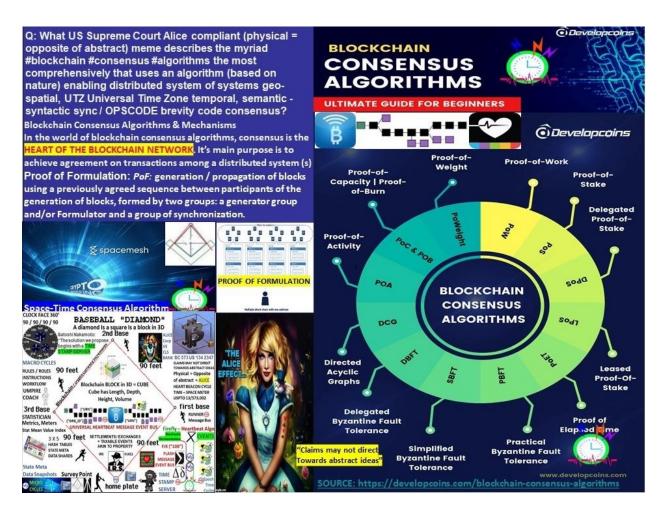


Figure 5: Heart of the cryptocurrency / blockchain world: consensus algorithms



Figure 6: Eco Economic Epochs building blocks of adaptive procedural checklist



Fig 7: Syntax Lexicon library 300 + message sets / data elements mapped to symbols

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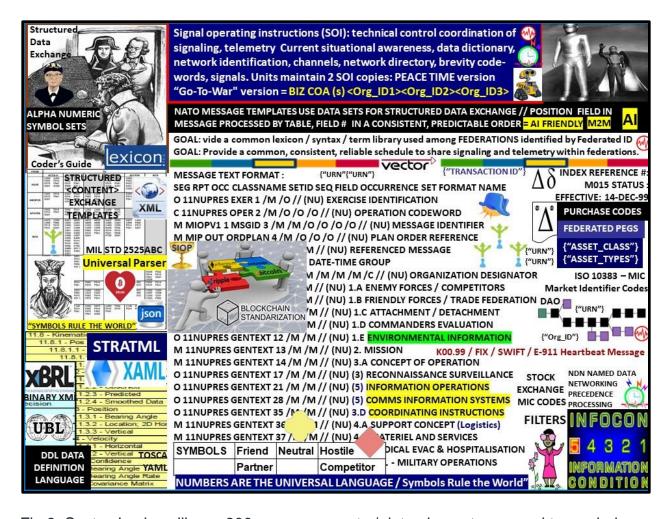


Fig 8: Syntax Lexicon library 300 + message sets / data elements mapped to symbols

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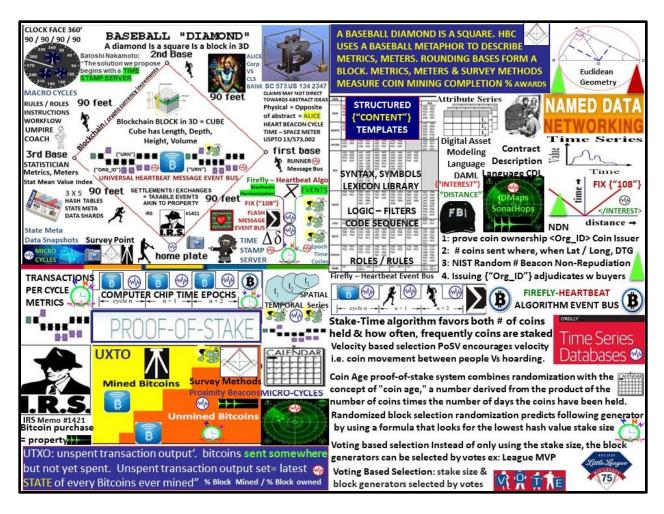


Figure 9: Proof of Stake / Eco Economic Epoch Heartbeat Cycles Time – Space Meter

Proof of stake is a type of consensus algorithm by which a cryptocurrency blockchain network aims to achieve distributed consensus. In PoS-based cryptocurrencies the creator of the next block is chosen via various combinations of random selection and wealth or age.

Proof of Stake (PoS) concept states that a person can mine or validate block transactions according to how many coins he or she holds. This means that the more Bitcoin or altcoin owned by a miner, the more mining power he or she has.

Bitcoin miners mine or validate block transactions based on the amount of coins a miner holds. When a transaction is initiated, the transaction data is fit into a block with a maximum capacity of 1 megabyte, and then duplicated across multiple computers or nodes on the network. The nodes are the administrative body of the blockchain and verify the legitimacy of the transactions in each block.

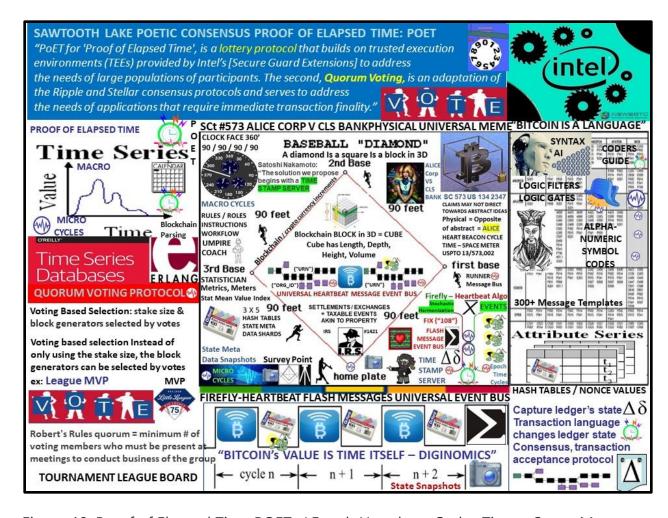


Figure 10: Proof of Elapsed Time POET / Epoch Heartbeat Cycles Time – Space Meter

Proof of elapsed time (POET) is a <u>blockchain</u> network consensus mechanism algorithm that prevents high resource utilization and high energy consumption and keeps the process more efficient by following a fair lottery system. Based on the principle of a fair lottery system where every single node is equally likely to be a winner, the POET mechanism is based on spreading the chances of winning fairly across the largest possible number of network participants.

POET algorithm working mechanism: Each node in the network is required to wait for a randomly chosen time period. The first one to complete the designated waiting time wins the new block. Each node in the blockchain network generates a random wait time and goes to sleep for that specified duration. The one to wake up first – that is, the one with the shortest wait time – wakes up and commits a new block to the blockchain, broadcasting the necessary information to the whole peer network The process repeats for next block discovery.



Business card

We can synchronize ourselves, our cities, towns, cyber-communities in time — space for a common purpose: shared, common, ecologically sound, responsible econometrics.

REFERENCES / LINKS

GITHUB Documents: <u>LINK https://github.com/Beacon-Heart</u>

MEDIUM ARTICLE: "The blockchain needs a killer use case" (climate change / population increase)

LINK: https://medium.com/coinmonks/blockchain-needs-a-killer-use-case-2f4def841883

MEDIUM ARTICLE: Digital Nations need an Ecologically sustainable Economic Heartbeat

LINK: https://medium.com/@heart.beacon.cycle/eco-sustainable-economic-heartbeat-43e4e30246da

MEDIUM ARTICLE: Deep Thought pondering the crypto blockchain through Alice's Looking Glass: <u>LINK https://medium.com/@heart.beacon.cycle/deep-thought-pondering-the-bitcoin-blockchain-f20ad6112d7</u>

MEDIUM ARTICLE: "Delusional Bitcoin Vs Fool's Gold":

LINK: https://medium.com/@heart.beacon.cycle/delusional-bitcoin-vs-fools-gold-e4bea26afba8

PIN INTEREST: https://pinterest.com/mcgee3077/eco-economic-heartbeat/

Angel List: https://angel.co/heart_beacon

Patreon: https://www.patreon.com/beacon heart

FACEBOOK: https://www.facebook.com/beaconheart

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TWITTER: @Heart_Beacon https://twitter.com/Heart_Beacon

PAYPAL: PayPal.Me/EcoEconHeartbeat

#internet #money #blockchain #cryptocurrencies #economics #sustainable #ecology #sustainability #climate change #econometrics #time-space meter, #metrics, #geospatial temporal #intensity



Business Card / Eco Economic Epochs

"One method fits many - not one size fits all"

"A day will come when the only fields of battle will be markets opening up to trade and minds opening up to ideas". Victor Hugo