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June 2003 – Present: Patent applicant USPTO 13/573,002: The Heart Beacon Cycle Time – Space Meter Adaptive Procedural Template (checklist of tools, processes, platforms, protocols... useful to form Distributed Autonomous Groups DAGS synchronized in time – space

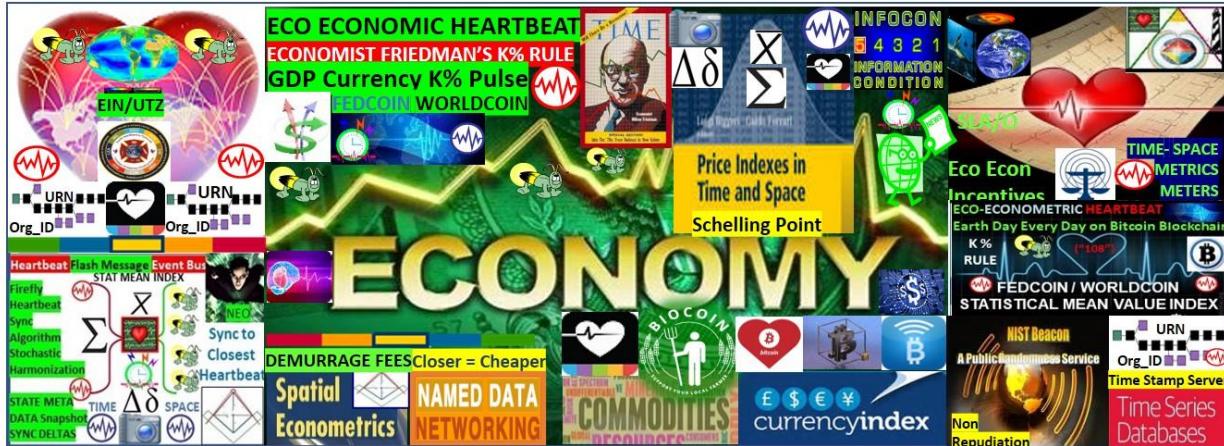
Presented International Conference Complex Systems ICCS New England chapter 2006

Ecologically sustainable Economic Heartbeat for the Programmable Economy - [LINK](#)

Use Case: distributed systems engineering signaling, telemetry OPORD Annex X for the programmable economy & syntax lexicon, engineering system of systems framework

Universal event flash heartbeat message bus supporting geo-spatial, temporal, semantic – syntactic distributed systems synchronization [LINK](https://bit.ly/2s6Fnav) <https://bit.ly/2s6Fnav>

Alice Corp. v. CLS Bank International, 573 U.S. 208 (2014) compliant ruling “claims may not direct towards abstract ideas”. Physical (baseball meme) is the opposite of abstract



Digital Nations need an Eco sustainable Economic Heartbeat with incentives systemically encoded into the programmable economy applying consistent time - space metrics, meters and syntax lexicon library. The German military made this suggestion circa 2003



Figure 1: Eco sustainable Economic Heartbeat / Adaptive Procedural Template (checklist)

The Heart Beacon Cycle Time — Space Meter USPTO 13/573,002 Adaptive Procedural Template: Use Case: Eco Economic Epoch Heartbeats for the programmable economy / money.

PROJECT: Code Eco sustainable incentives into the world's programmable economic system of systems engineering framework reusing / leveraging NATO systems of systems engineering best practice. Reuse OPSCODE brevity codes mapped to message symbol sets essential to Artificial Intelligence / human interaction (i.e., man — machine interface).

Reuse of DARPA - NATO's structured data exchange that maps data element OPSCODES to symbol sets is key to Artificial Intelligence #AI man - machine interface, consensus, consistency among myriad #blockchain programmable #money memes, metaphors...

Given space travel risks, navigation based on consciousness / telepathy (use of symbols not words), a consistent syntax lexicon to communicate with #UFO EBO's that are likely Artificial Intelligence AI powered drones is reuse of DARPA - NATO's structured data exchange that maps data element OPSCODES to symbols with over 300 message sets



FIGURE 2: The Great and Greater Reset (s)... standing on the shoulders of giants

What is your solution framework based on EXISTING systems, code, best practice? Adaptive Procedural Template (checklist): Use case: GDP Index based Economy: Eco Economic Epochs Time-Space Meter Eco incentives, consensus, interoperability for the programmable economy, Earth Intelligence Network EIN / System of systems engineering framework from NATO Battlefield Digitization based on a German military idea to reuse Battlefield Digitization for OOTW Operations Other Than War circa 1993 / USPTO 13/573,002 / Github: <http://github.com/Beacon-Heart>

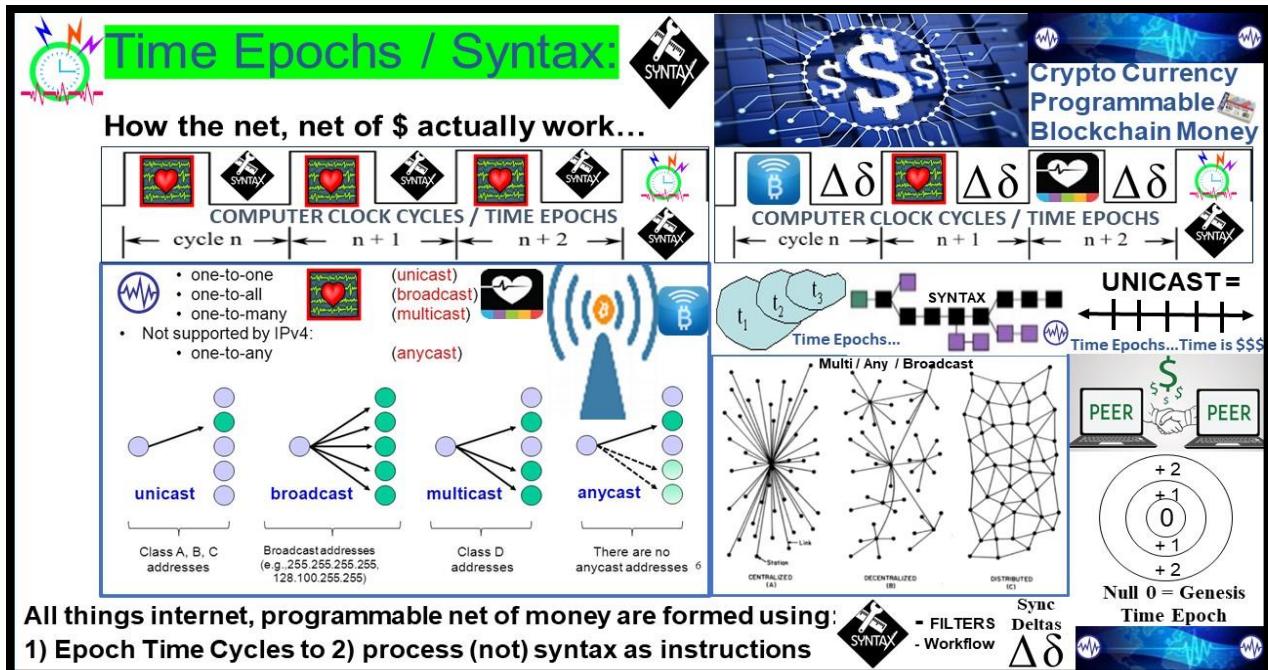


Figure 3: How the programmable internet and internet of money work

The Internet, net of programmable money is formed using 1) Time Cycle epochs used to parse (not) syntax as instructions for workflow and (routing) filters.

This is key to cross meme interoperability and consensus among myriad cryptocurrency, blockchain memes and artificial intelligence systems.

FUNDAMENTAL TRUTH: All things internet, net of money blockchains are formed by unicast, multicast, anycast. Programmable money's improvements are in cryptography.

All things #internet, net of #money #blockchain #cryptocurrencies rely on unicast, multicast—like DoD / NATO's #DAO Distributed Autonomous Organization system of systems—a term coined by the RAND Corporation circa 2000. Programmable money's improvements are in cryptography. The net works the same way for all & everything.

INTERNET BUILDING BLOCKS: Time epochs / syntax are the two main internet, internet of money building blocks in coding the Artificial Intelligence A.I. powered economic system of systems / Earth Intelligence Network EIN / Web 3.0 and the programmable economy in terms of temporal consistency, interoperability, and consensus.



Figure 4: NIST's Quantum Random Number / Time Beacons for programmable \$\$

Programmable #money / #economy... gold, #Bitcoin as "digital gold" — fool's #gold? How will programmable money for the programmable economy be coded? A one world #currency needs a stochastically harmonized, synchronized Universal Time Zone UTZ / event bus

In quantum computing, a **qubit** or **quantum bit** (sometimes **qbit**) is a unit of **quantum information**—the quantum analogue of the classical binary **bit**. A qubit is a **two-state quantum-mechanical system**, such as the **polarization** of a single **photon**: here the two states are vertical polarization and horizontal polarization. In a classical system, a bit would have to be in one state or the other. However, quantum mechanics allows the qubit to be in a **superposition** of both states at the same time, a property that is fundamental to quantum computing. QUBIT: <https://en.wikipedia.org/wiki/Qubit>



Fig 5: NIST Quantum Random Number Beacon / USPTO 13/573,002

The programmable #economy will be anchored by quantum computing NIST's Quantum Random Number Beacon combined with the Heart Beacon Cycle Time – Space Meter Adaptive Procedural Template checklist. Non-repudiation of events / transactions at any time, space, place in the future will be expected and required by end users and governments.

FUNDAMENTAL TRUTH: All things internet, net of money blockchains are formed by unicast, multicast, anycast. Programmable money's improvements are in cryptography.

The NIST Randomness Beacon Broadcasts a randomness pulse every 60 seconds Each pulse commits to a fresh 512-bit random string Each pulse is time-stamped and signed. Beacon periodically outputs a pulse containing 512 fresh random bits, time-stamped, signed and hash-chained. For example, each pulse also pre-commits to the randomness to be released in the next pulse. The latter enables users to securely combine randomness from different beacons. The Beacon protocol also specifies the interface for users to interact with the Beacon to obtain information about past pulses. A randomness beacon produces timed outputs randomness.

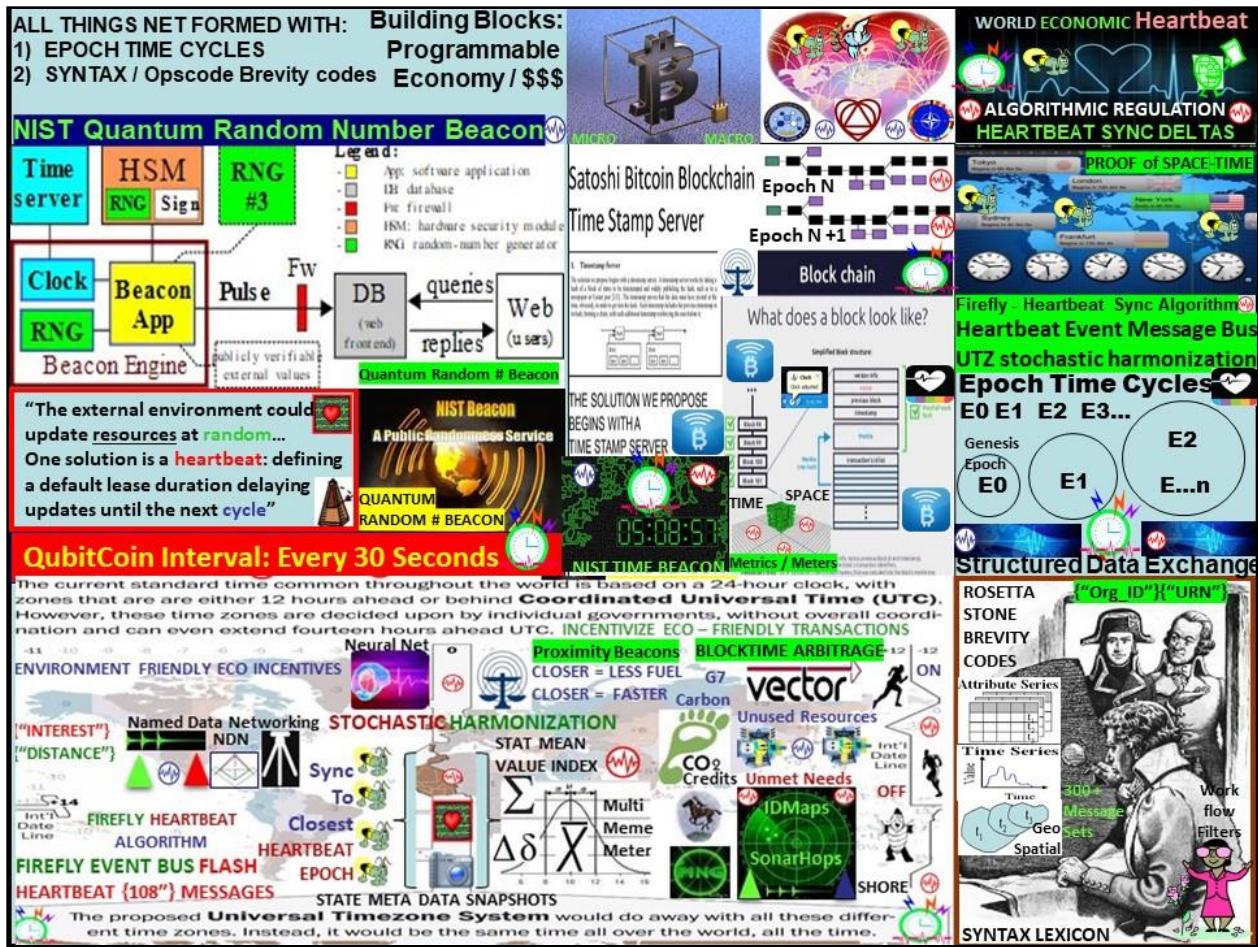


Figure 6: NIST Quantum Random # Beacon / USPTO 13/573,002 Heart Beacon Time-Space meter

This IEEE article makes the case for cryptocurrencies to be based on quantum computing (Quantum Random Number Generator) rather than being “quantum computing resistant” or designed in the blind of quantum computing: “Shor’s algorithm could be deployed to render Bitcoin insecure with just a few thousand error-corrected logical qubits.” LINK: <https://spectrum.ieee.org/tech-talk/computing/hardware/quantum-computer-error-correction-is-getting-practical>

The Department of Commerce funding NIST QRNB Quantum Random Number Beacon in Boulder Colorado's purpose: provide a non-repudiation service of events / transactions at any place, time in the future. This is an absolute must have for any digital currency in my opinion. The late Bernard Lietaer of Belgium's TRC Trade Reference Currency featuring tangible commodities (like Thomas Edison's crop commodity based monetary option of 1921) should be the models that benefit from quantum computing and the QRNB. LINK: <https://www.nist.gov/news-events/news/2018/04/nists-new-quantum-method-generates-really-random-numbers>

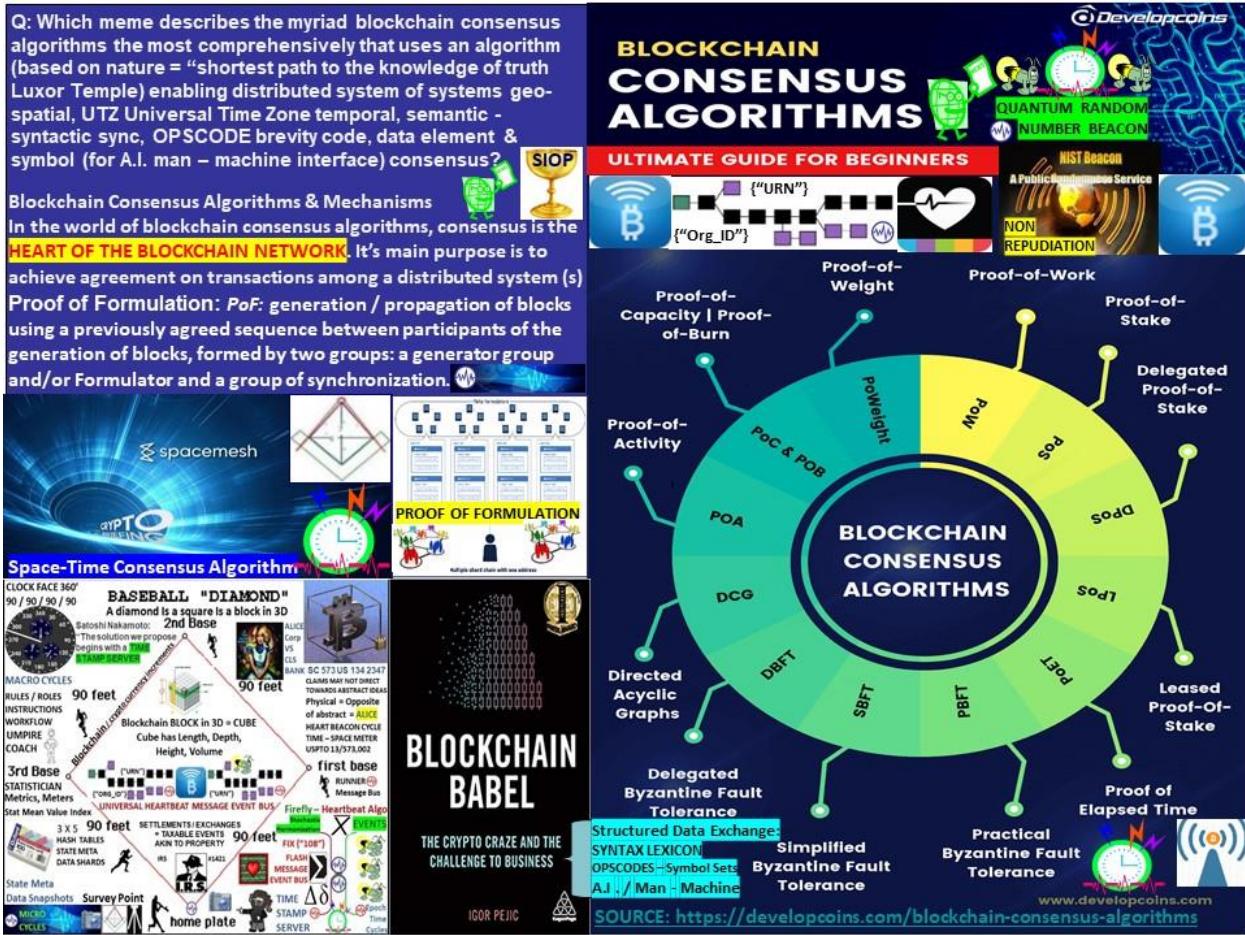


FIG 7: Which meme / metaphor addresses the myriad blockchain algorithm memes / metaphors?

Source: <https://www.developcoins.com/blockchain-consensus-algorithms>

Bitcoin blockchain blocks, agents, motes, bots, heartbeat, beacon are metaphors for intervals, time cycles available to process / not process SYNTAX. The internet is coded, programmed using time cycles to process instructions, commands etc. It follows that the key to achieving consistency, interoperability among myriad memes and establishing a consistent, systemic one world economic system of systems is to focus on two main common building blocks—time cycles and syntax parsed as instructions.

Given crypto #blockchain myriad memes, metaphors "hashgraph" "Ether gas", we are creating new data elements in new syntax lexicons. DoD / NATO's structured data exchange (mapped to symbol sets for A.I - man - machine interface) took decades to achieve consensus -why reinvent the wheel?

[http://en.wikipedia.org/wiki/SIMPLE_\(military_communications_protocol\)](http://en.wikipedia.org/wiki/SIMPLE_(military_communications_protocol))

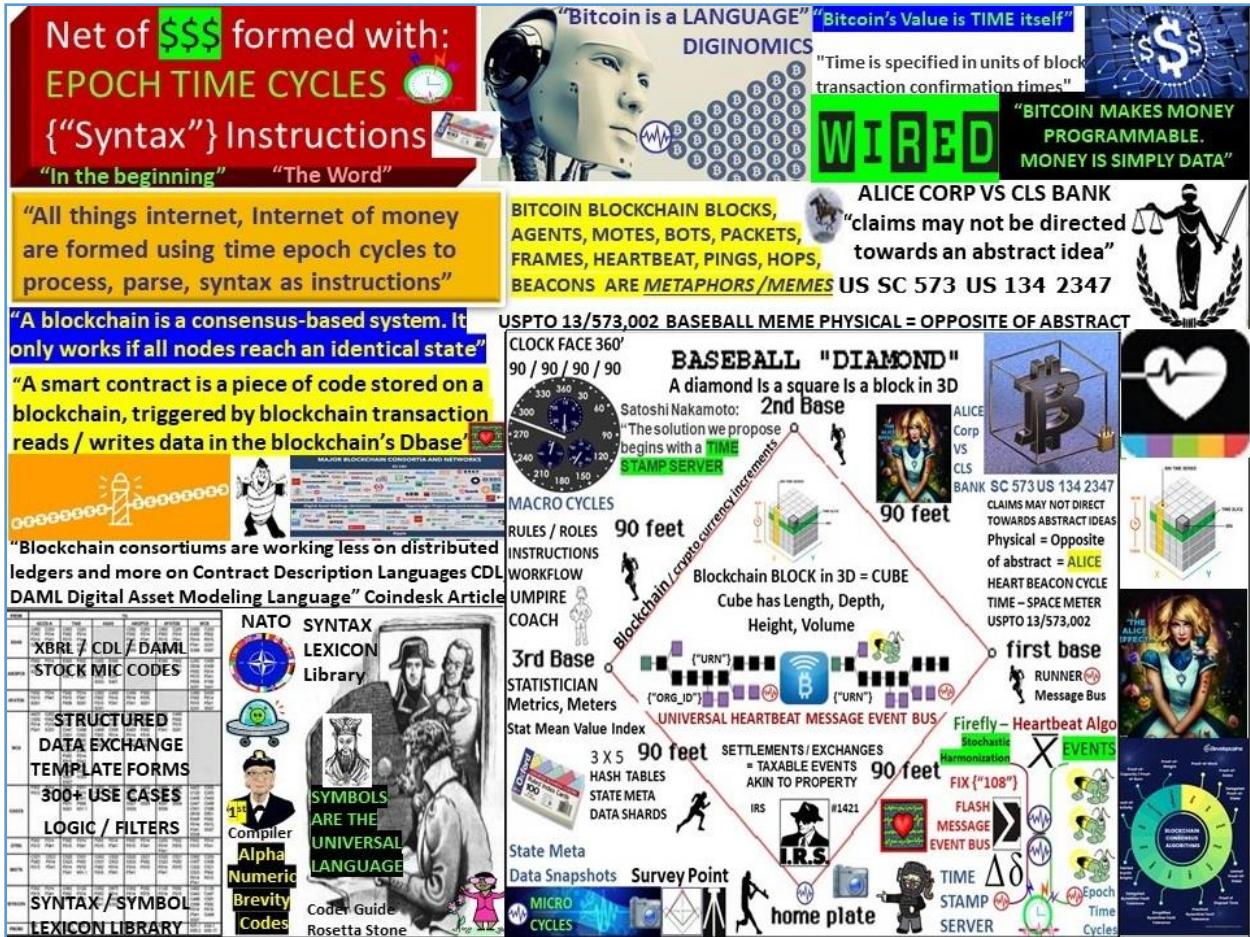


FIGURE 8: Supreme Court Alice Corp Vs CLS Bank “claims may not direct towards Abstract ideas” [LINK](#)

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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. Closer is cheaper, less fuel, < CO2 carbon emission in smart contract Service Level Agreements



FIGURE 9: FIREFLY INSPIRED HEARTBEAT SYNCHRONIZATION / World Economic Heartbeat

Firefly Inspired Heartbeat Synchronization Algorithm:

- 1) Consensus
- 2) Neural Network emulation
- 3) Event Bus for Bitcoin transactions as taxable events
- 4) Stochastic Harmonization
- 4) Collect stock exchange events for MMID Dark pool limits

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 10: TERRA Trade Reference Currency / Crypto Micropayments – Demurrage fees

Nobel Prize winning Economist Milton Friedman's K% rule is what I call an "economic heartbeat" K-Percent Rule. DEFINITION of 'K-Percent Rule'. The K-Percent Rule was a proposal by economist Milton Friedman that 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 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>

#Economic #RESET is a mathematical certainty. Do we #RESET the global system of systems as is or do we re-engineer our world using NATO / DARPA / DOD system of systems engineering framework standing on the shoulders of giants to convert swords to plowshares? #blockchain #econometrics

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 chaos by not leveraging proven system of systems & tactics



FIGURE 11: ECONOMIST MILTON FRIEDMAN's K % RULE / Algorithmic Economic Regulation

Satoshi Nakamoto's Bitcoin key building block is a time stamp server. **Satoshi Nakamoto:** "Bitcoin is intended to be paired with the market place" "the blockchain stores references to market indexes"

Demurrage: term used in currency trading to denote cost of currency ownership and/or storage. cost of carrying money... considered superior to interest payments, as it stimulates currency circulation and economic growth. "In a physical sense, demurrage represents a delay that occurs during the transportation of goods via truck. When this happens, the trucking firm delivering the product can opt to pay a flat fee to the receiver to cover any loss incurred as a result of the delay. This fee can be assessed on an hourly basis. Or in the case of gold, demurrage is simply the costs associated with storage of bouillon.

[LINK https://investopedia.com/terms/d/demurrage.asp](https://investopedia.com/terms/d/demurrage.asp)

Thomas Edison's Monetary Option: [LINK](#):

<https://www.supermoney.com/2014/06/thomas-edisons-view-money/>

Economist Milton Friedman predicted the rise of a computer capable of automatically adjusting the inflation rate of money. 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. No

money system we have seen to date can claim it is chronologically regulated. The universal construct of time is the backbone of the cryptocurrency digital economy. Investopedia K % Rule [Source](https://investopedia.com/terms/k/k-percent-rule.asp): <https://investopedia.com/terms/k/k-percent-rule.asp>

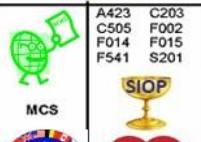
FROM		ALPHA-NUMERIC BREVITY CODES										CODE GUIDE		Information Elements Roles															
GCCS-A		C002 C203			C002 C203			C002			ATDS		MCS		• COI Determination Org Interaction														
ASAS		C002	C203		C002	C203		C002	C203		C203	C002	C203		• Search and Discovery														
		F002	F014		F014	F002		F014	F002		F014	F002	F002		• Ontologies STANDARDS														
		F015	F541		F541	F015		F541	F015		F541	F015	F541		• Taxonomies REFERENCE														
		S201	S309		S309	S201		S309	S201		S309	S201	S309		• Metadata Attributes / Filters														
		USMTF / XML MTF FORMATTED MESSAGE CATALOG = 300 + messages info exchange sets using common, CONSENSUS Message Text Formats MTFs. MTFs specify </CONTENT> / info agreed by group consensus presenting information in a logical, well specified unambiguous layout resulting in a highly efficient info payload to overhead ratio										{"Org_ID"} {"URN"}		FILTERS															
		A423	C203	Rosetta Stone	C400	A423	C203	Rosetta Stone	C400	A423	C203	Rosetta Stone	C400	FFUDN: Field Format Unit Designator #															
		C505	F002	apple	C505	F002	F014	bitcoin	F015	F541	S201	F014	F541	FFIRN Field Format Index Reference #															
		F014	F015	blockchain	F014	F015	F541	M2M	F541	S201				Structured military messaging ID's messages, message sets, data element, symbol fields															
		F541	S201	standardization	S201			Coder's Guide						BY Form Field Position & NUMBER															
														SYMBOLS RULE THE WORLD															
														HEARTBEAT															
														MESSAGE = K00.99															
MESSAGE CATALOG 300 + Use Cases																PROCESS MESSAGE BY PRECEDENCE													
Data Elements: entity, attribute, relationship equivalents																UNIVERSAL EVENT / ALERT MESSAGE BUS													
Object Categories		Information Categories and Examples														OPERATIONAL NODES / ACTIVITIES													
OOB		Examples	Location	Movement	Identify	Status	Activity	Intent	DATA SYSTEM FUNCTIONS														PERFORMANCE						
		SYNTAX LEXICON	STRUCTURED DATA	EXCHANGE	Message Sets	COA	11.4 - Classification														11.8 - Kinematics								
			lat/long	spd/hdg	country / alliance, type/class	readiness	targeting, recentering	{"Java JS"}	11.4.1 - Category														11.8.1 - Pos / Vel / Acc (PVA)						
									11.4.1.1 - Confidence Level														11.8.1.1 - Angular						
									11.4.1.2 - Estimate Type														11.8.1.2 - Linear						
									11.4.1.2.1 - Alternative														1.2.1 - Estimate Type						
									11.4.1.2.2 - Evaluated D														PURCHASE						
									11.4.1.3 - Value														1.2.2 - Observed						
									11.4.1.3 - Value														1.2.3 - Predicted						
									11.4.1.4 - Code														1.2.4 - Spaced						
SYMBOL		Friend	Neutral	CODES														Hostile											
2525C		Partner	Neutral	SYMBOL														Competitor											
				11.4.1.1 - Confidence Level														1. Velocity											
				11.4.1.2 - Linear														1.4.1 - Horizontal											
				11.4.1.3 - Surface														1.4.2 - Vertical											
				11.4.1.4 - Specific Type														1.4.3 - Confidence											
				11.4.1.5 - Unit														1. Bearing Angle											
				11.4.1.6 - Type Modifier														2. Bearing Angle Rate											
				11.4.1.7 - Covariance Matrix														3. Covariance Matrix											

Figure 12: Syntax Lexicon Library Rosetta Stone adapted swords to plowshare from NATO

Common syntax library of various Message Text Formats MTF to enable universal signaling / telemetry among a system of systems is ESSENTIAL. Decades of research at the taxpayer's expense into structured messaging / structured data exchange where the location, type of data identified by table number will help accelerate the process of organizing syntax into categories from disparate systems into data set reference repositories. Many semantic, syntax tags will be reusable. The rules, roles and logic developed by years of research involving of thousands of subject matter experts solving real world issues is the value to be extracted from the 300+ message sets. NATO stays synchronized across many languages and cultures so why reinvent the wheel?

MESSAGE CATALOG: The USMTF message library has over 300 messages to choose from to facilitate information exchange requirements. MTFs presenting data in a logical, well specified and unambiguous layout. MTFs are transmission medium neutral. The content of the Message Catalogue has been developed by military operators over the last 20 years. Messages are regularly maintained to keep pace with the latest tactics and doctrine.

Military brevity codes and stock exchange codes are similar. security Identifier used in financial markets are: SYMBOL, CUSIP, ISIN, SEDOL, RIC Code, Security Identify Syntax Lexicon Library



Fig 13: Heart Beacon Cycle Time — Space Meter USPTO 13/573,002 is an Adaptive Procedural Template: Use Case: Eco Economic Epoch Heartbeats for the programmable economy.

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. Bitcoin cryptocurrencies as programmable money and the internet's heartbeat, heartbeat messages timed to harvest data during micro economic cycles then aggregated into a composite economic heartbeat pulse which is a clear and present opportunity to realize the purpose of Economist Milton Friedman's K% rule / Heart Beacon Cycle Ecologically Sustainable Economic Epochs for trade equity, ecologic sustainability, economic stability.



Figure 14: UTZ TIME ZONE STOCHASTIC HARMONIZATION / SYNCHRONIZATION

Universal Time Zone (UTZ) Proposed Clock: At the United Nations on May 20, 2003, President George W. Bush, announced a proposal to unify all the world's time zones into a single Universal Time Zone (UTZ)

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

UNIVERSAL TIME - SPACE SYNCHRONIZATION: The Heart Beacon Cycle Time - Space Meter is intended to bridge humanity from our present condition to a higher consciousness described by Extra Terrestrial Groups and organizations like the Law of Time dot org with the Noosphere concept

"One people, one Earth, one Time": "The times we are living in require higher thinking. There has never in the history of the Earth been a time like this. We are now participating in what is called the biosphere-noosphere transition: When life on Earth evolves into an awakened planetary mind (noosphere)". See The Law of Time . Org



Figure 15: FEDCOIN / WORLD COIN

One world currency for the one world government will require financial events stochastic-ally synchronized, harmonized across the world's time zones and will need to represent a value index of the world's GDP Gross Domestic Product

Course of Action: Use Thomas Edison's commodity backed index recommendation 1921, Milton Friedman's K % rule, Economist Bernard Lietaer's TERRA TRC Trade Reference Currency concepts in concert with the firefly-heartbeat algorithm developed by the University of Bologna, University of Hungary = ECONOMIC HEARTBEAT FEDCOIN / WORLDCOIN

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. Closer is cheaper, less fuel, less C02 carbon emissions. Main building blocks: WAVES: TOKENIZES NATIONAL CURRENCIES

TITLE: Adaptive Procedural Template: Use Case: GDP Index Economy / Eco Economic Epoch Heartbeats for the programmable economy

USPTO 13/573,002: The Heart Beacon Cycle Time - Space Meter Adaptive Procedural Template (checklist).

We have a clear and present opportunity to improve temporal, geo-spatial, syntactic - semantic consistency, interoperability among myriad programmable money memes among a federated, distributed system of systems supporting a distributed, equitable, Eco-sustainable, and programmable global Economic framework.

We can synchronize ourselves in time-space for common goals e.g., code an equitable, distributed programmable economy among trade federations (attributed to Law of Time . Org)

Use Cases: Eco #Economic Epochs Time-Space Meter #ecology Eco incentives, consensus, interoperability, sync, stochastic UTZ harmonization for programmable money, economy

Use Case: Ecologically sustainable economic incentives coded into the programmable economy based on a tokenized economy - It's about Time - Space, syntax symbol set lexicon library supporting the Earth Intelligence Network / Noosphere. Main use case: GDP Gross Domestic Product Index based Economy / National - Global currency

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

FUNDAMENTAL TRUTH: blockchains are formed by unicast, multicast,anycast and workflow filters. Programmable money's improvements are in cryptography. Internet 3.0 and the new web will be based on the original structure described by Stanford University. There are no packets, frames, blocks, Satoshi's traversing the net, stored in a blockchain cube.

INTERNET BUILDING BLOCKS: Time epochs / syntax are the two main internet, internet of money building blocks in coding the Artificial Intelligence A.I. powered economic system of systems / Earth Intelligence Network EIN / Web 3.0 and the programmable economy in terms of temporal consistency, interoperability, and consensus.

A timely solution for the "Great RESET" of 2021: Given: "Great #Economic RESET" of 2021 looming, consider a tangible, commodity backed currency unit of value, trade

where closer = cheaper given less fuel is consumed: GDP Index Economy powered by #Ericsson #Erlang time algorithms / time equations / NIST QRNB Quantum Random Number Beacon

Nobel Prize winning economist Milton Friedman's K% rule is a GDP Gross Domestic Product economic heartbeat, a GDP pulse. Add a crypto coin index to commodity index and QRNB for non repudiation at any location / time in the future = basis for a one world economic system of systems unit of value

WorldCoin <https://twitter.com/i/status/1315621638579388418>

SUMMARY: GDP INDEX ECONOMY: Thomas Edison and Henry Ford proposed a currency based on a basket of crop commodities because Edison felt that crops held their value over time - enter climate change reality and the merits of this view are self evident. Later in the 1990's, Belgian Economist Bernard Lietaer proposed a commodity based TRC Trade Reference Currency based on demurrage charges to support logistics of goods moved from supplier to consumer called the TERRA TRC. Prior to his passing, Nobel Prize winning economist Milton Friedman described an "economic heartbeat" in his K% rule where the Treasury increases the money supply increases and decreases pegged to the GDP index. Nations / the world's economy would be managed as a composite value index similar to for example, Vanguard's index funds, commodity index funds. A snapshot or sync delta value taken at a predetermined time interval (micro-cycle to macro cycle) to determine the statistical mean value of the goods, commodities that comprise a GDP index is performed and used as the value of the organization's / nation's / world's unit of value as the basis for currency exchange. This process reuses DARPA / NATO's Battlefield Digitization, Net Enabled Operations NEO procedures that have supported the Pentagon's / NATO's digital dashboards since the 1990's.

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. Beacon Communities supported by an open source Earth Intelligence Network EIN powered by a quantum random number beacon blockchain - it's about time (space, syntax lexicon, econometrics..) Code Eco sustainable incentives into the programmable economic system of systems engineering framework reusing / leveraging NATO systems of systems engineering best practice. Reuse OPSCODE brevity codes mapped to message symbol sets essential to Artificial Intelligence / human interaction (i.e., man — machine interface). Github: <http://github.com/Beacon-Heart>