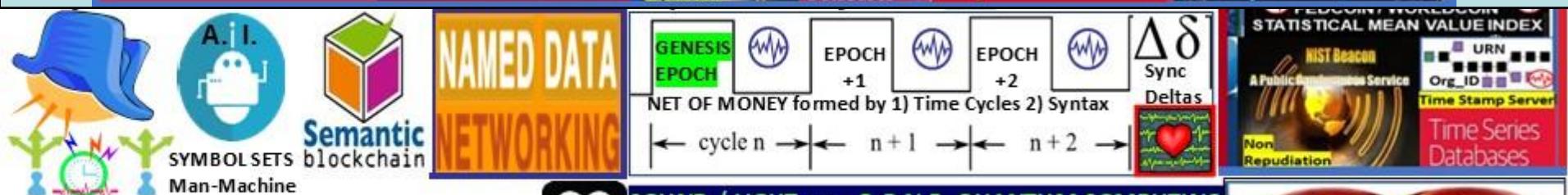


THE **GREAT** RESET



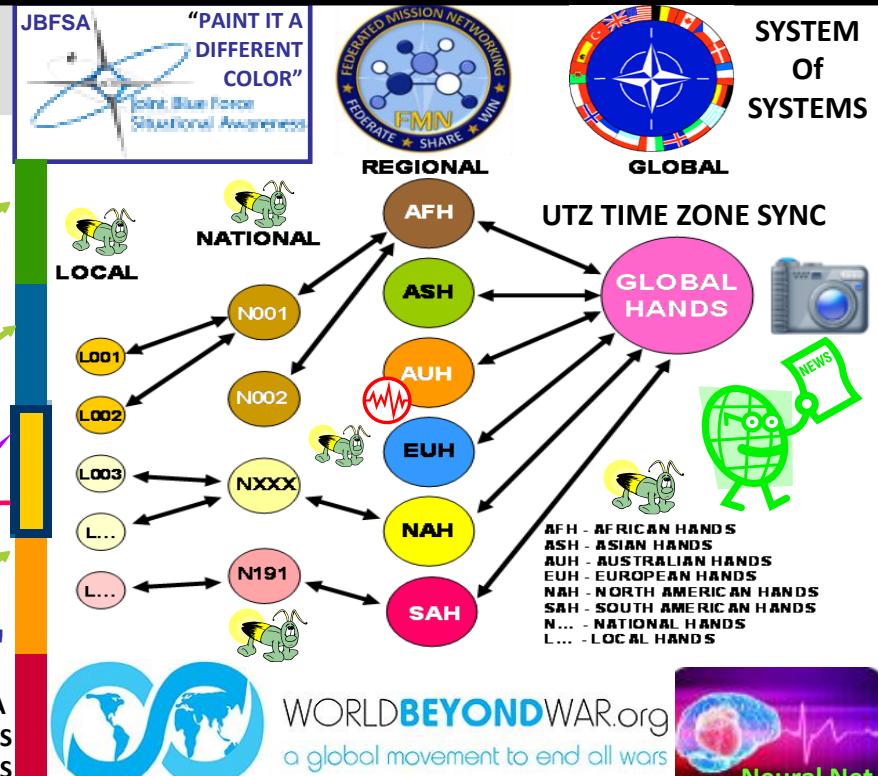
THE WORLD GAME



Syntax lexicon comprised of 300 + Structured data messages, message sets = Comprehensive list of use cases, data elements supporting Internet of Everything IoE net of value. Reference guide, data dictionary international standards support Data elements mapped to SYMBOL SETS

Humanitarian Assistance Networked Donor System

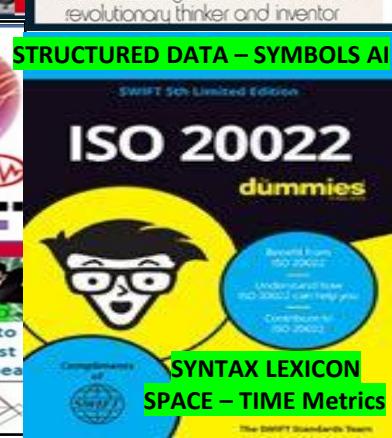
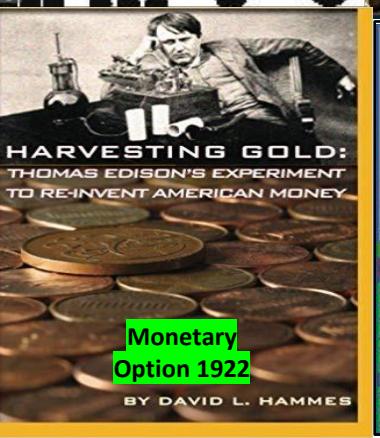
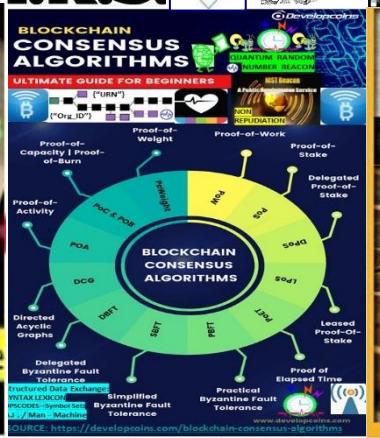
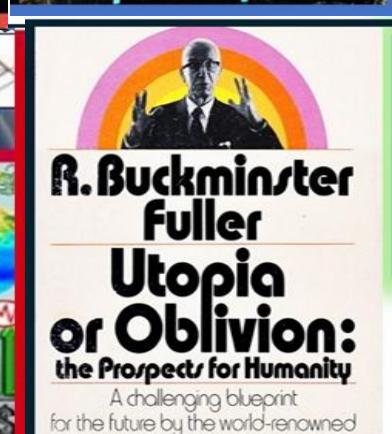
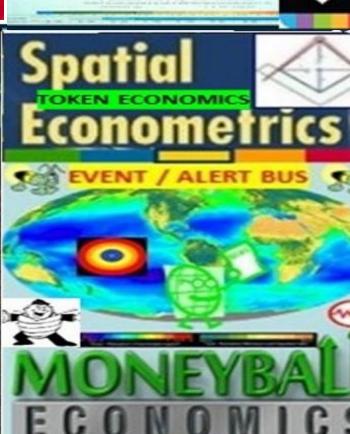
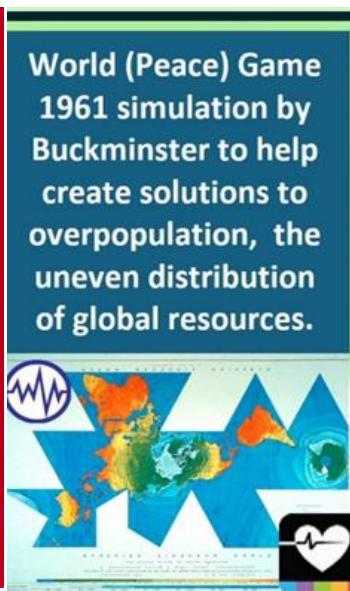
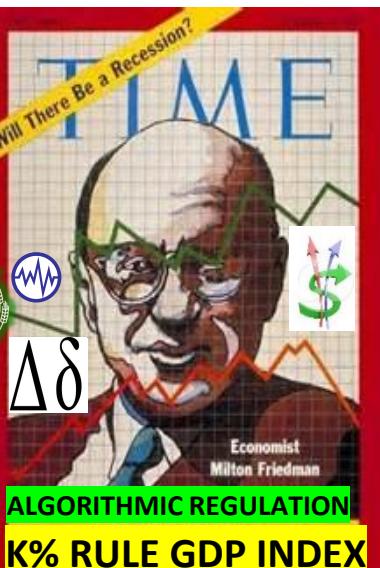
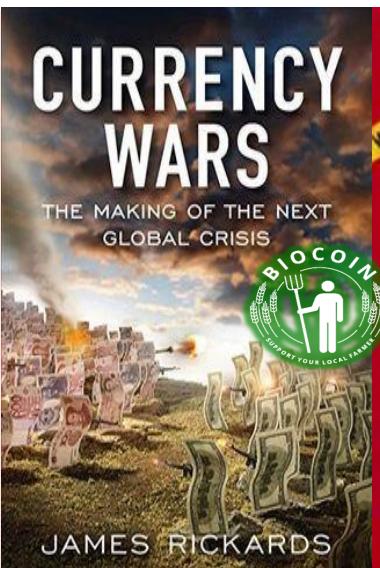
H.A.N.D.S: "Based on the need to speed up the processes of influencing an adversary, new concepts result in the adaptation of military doctrine, organization, training, material, infrastructure, interagency interaction, leadership, personnel and facilities" ... German Bundeswehr concept of "OOTW Operations Other Than WAR or "Vernetzte Operationsführung" circa 2003

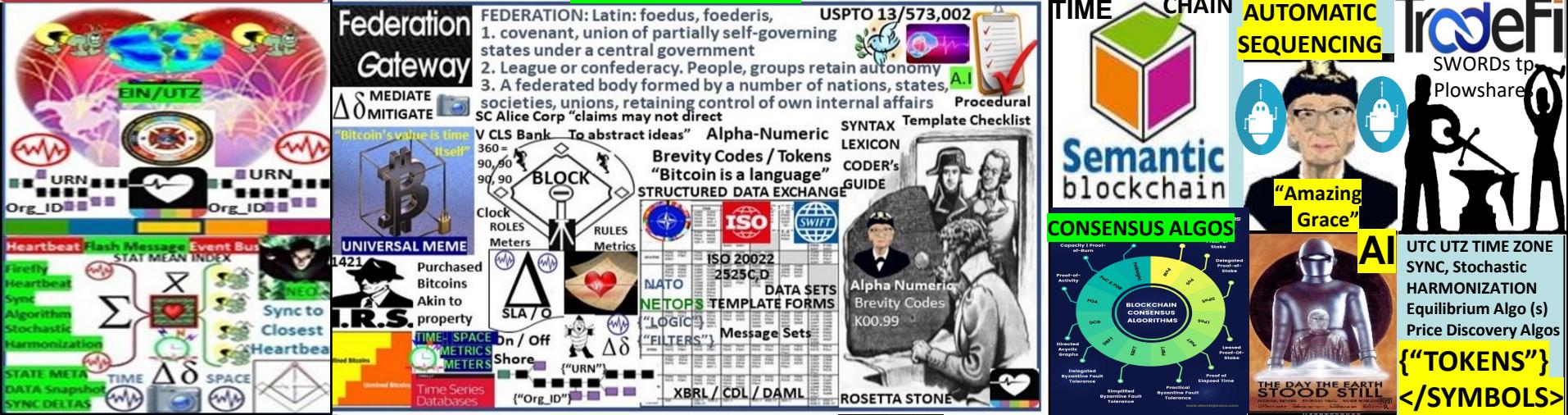
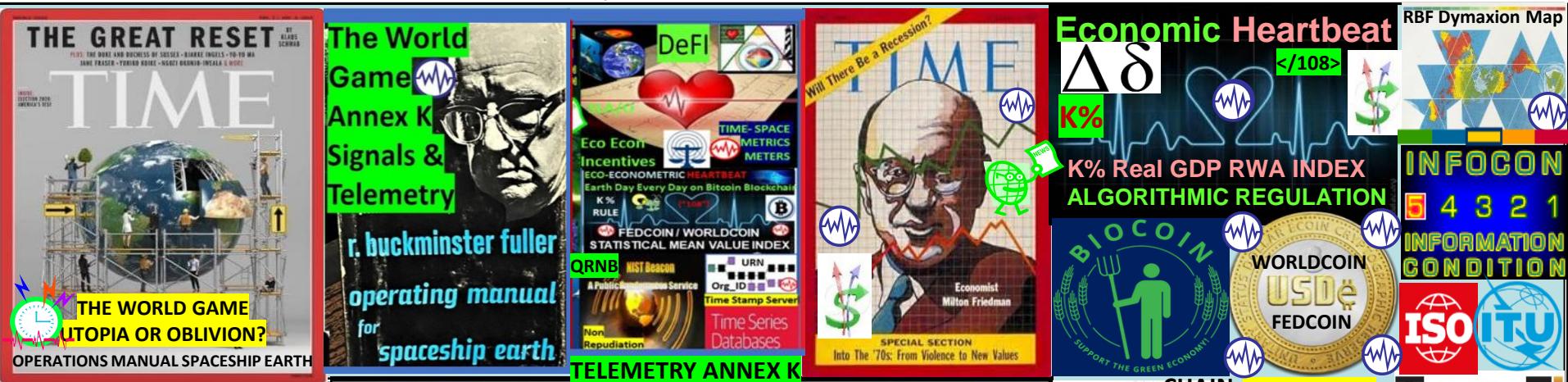


Reuse adaptive procedural template guides from Battlefield Digitization among a federated systems of systems improving synergy, synchronicity to achieve shared sustainable goals









**SOUND WAVES enable
Different types of
quantum tech to “talk”**

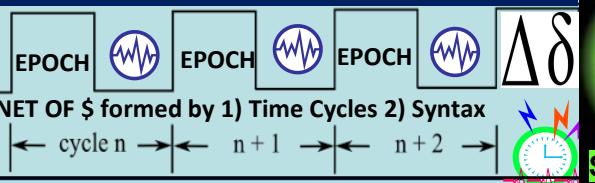
**BITCOIN TRANSACTION AKIN TO LAND
ORG_ID in CLEAR / Person ID encrypted**

**'wave-particle duality'
is simply the quantum
'uncertainty principle'**



TIME EPOCHS & SYNTAX = FOUNDATION TECH

USPTO 13/573,002 The Heart Beacon Cycle Time – Space Meter / Adaptive Template





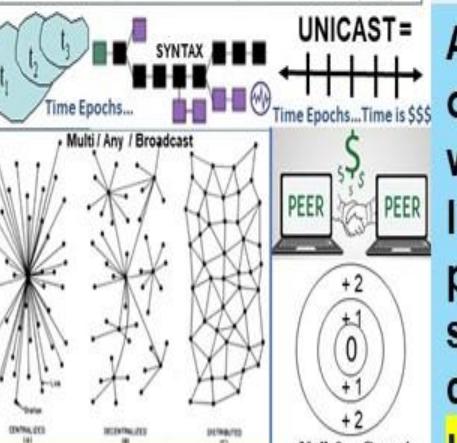
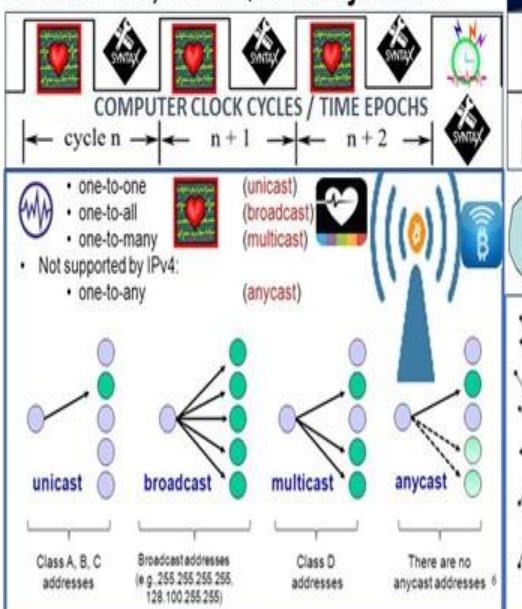
Foundation Technology Trinity:

1. EPOCH (s) = Time intervals, cycles
2. SPACE (land use meme) ex: IRS memo #1421 "Bitcoin transaction akin to land"
3. SYNTAX structured data mapped to symbols for A.I. / man - machine interface

THESIS: All net artifacts, net of \$ are formed with:
 1) Epoch time cycle intervals ex: chip oscillations
 2) Syntax parsed, processed in epoch time intervals

Time Epochs / Syntax:

How the net, net of \$ actually work...

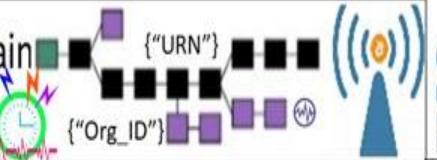


All things internet, programmable net of money are formed using:
 1) Epoch Time Cycles to 2) process (not) syntax as instructions

Epoch Time Cycles / Syntax

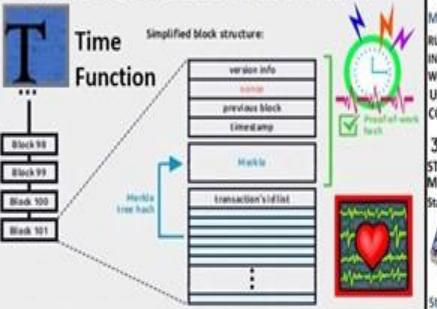
Internet / Internet of Money building blocks

Satoshi Bitcoin Blockchain
Time Stamp Server



TIME Block chain TIME

What does a block look like?



Semantic blockchain



Artificial intelligence (AI) syntax refers to the set of rules, principles governing the arrangement of words and phrases in a programming language. In the context of AI and natural language processing, syntax ensures that language is structured in a systematic way, for effective communication and comprehension.

Understanding syntax is essential for developers to write readable, maintainable, and scalable code

OPSCODE
Brevity
Codes
Mapped
To
Symbol Sets
AI



Net of \$\$\$ formed with:

1 EPOCH TIME CYCLES

2 {"Syntax"} "The Word"

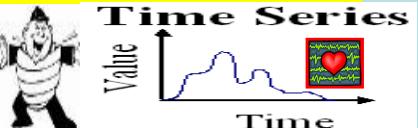
"In the Beginning" Genesis Block

"All things internet, Internet of money are formed using time epoch cycles to process, parse, syntax as instructions"

"A blockchain is a consensus-based system. It only works if all nodes reach an identical state"

"A smart contract is a piece of code stored on a blockchain, triggered by blockchain transaction reads / writes data in the blockchain's Dbase"

NAMED DATA NETWORKING



"Blockchain consortiums are working less on distributed ledgers and more on Contract Description Languages CDL, DAML Digital Asset Modeling Language" Coindesk Article



SYNTAX LEXICON Library

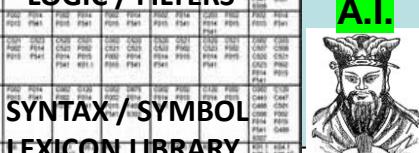
1st Compiler



STRUCTURED DATA EXCHANGE TEMPLATE FORMS

300+ USE CASES

LOGIC / FILTERS



Alpha Numeric Brevity Codes

Coder Guide Rosetta Stone



"BITCOIN MAKES MONEY PROGRAMMABLE. MONEY IS SIMPLY DATA"

"BITCOIN'S VALUE = TIME ITSELF"

"Time is specified in units of block transaction confirmation times"



ALICE CORP VS CLS BANK

"claims may not be directed towards an abstract idea"

US SC 573 US 134 2347



BITCOIN BLOCKCHAIN BLOCKS, AGENTS, MOTES, BOTS, PACKETS, FRAMES, HEARTBEAT, PINGS, HOPS, BEACONS ARE METAPHORS / MEMES

USPTO 13/573,002 BASEBALL MEME PHYSICAL = OPPOSITE OF ABSTRACT



CLOCK FACE 360°
90 / 90 / 90 / 90



MACRO CYCLES

RULES / ROLES

INSTRUCTIONS

WORKFLOW

UMPIRE

COACH

3rd Base

STATISTICIAN

Metrics, Meters

Stat Mean Value Index

3 X 5 HASH TABLES

STATE META DATA SHARDS

SETTLEMENTS / EXCHANGES

= TAXABLE EVENTS

AKIN TO PROPERTY

IRS #1421

State Meta Data Snapshots

Survey Point

MICRO CYCLES

BASEBALL "DIAMOND"
A diamond Is a square Is a block in 3D
2nd Base

Satoshi Nakamoto:
"The solution we propose begins with a TIME STAMP SERVER"

90 feet

Blockchain / crypto currency increments

90 feet

Blockchain BLOCK in 3D = CUBE

Cube has Length, Depth,

Height, Volume

90 feet

SETTLEMENTS / EXCHANGES

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Cube has Length, Depth,

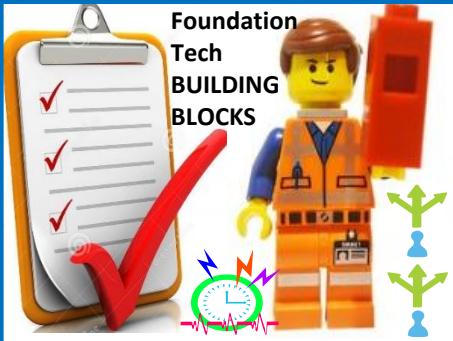
Height, Volume

90 feet

SETTLEMENTS / EXCHANGES

= TAXABLE EVENTS

AKIN TO PROPERTY



HEART BEACON CYCLE {"RWA"}
Series of systemic actions to achieve goals ex: form, maintain ECO sustainable

PROCEDURAL TEMPLATE
List Items point / refer to detailed treatises



Trade Federations i.e., closer = < fuel, CO₂



A continuous action, operation, or series of changes, sync deltas i.e., price indexes

Universal Event Bus Algorithm

Process Events by Precedence

Flash Heartbeat

</108> messages



Sync geo-spatial temporal Eco econometrics across space-time



MINIMUM LIST OF COMPONENTS / BUILDING BLOCKS, PROCESSES, PROCEDURES... AGREED ON BY TRADE FEDERATIONS TO ACHIEVE DAO DISTRIBUTED AUTONOMOUS ORGANIZATIONS CONSENSUS

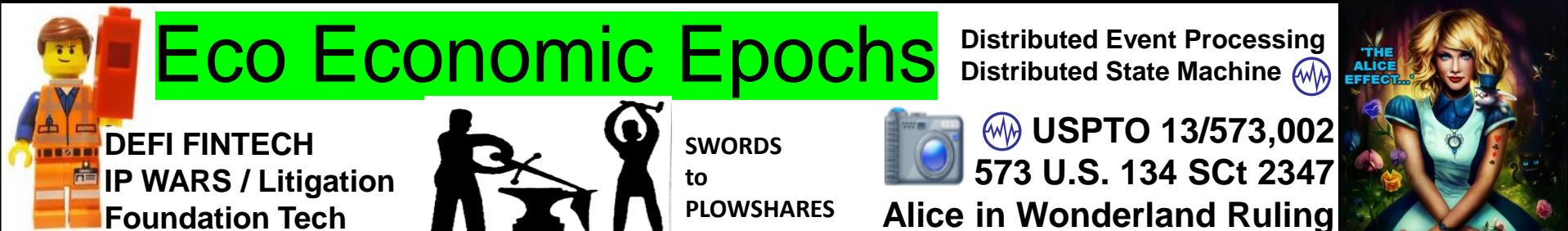
DAO's in FEDERATIONS AGREE TO USE COMMON COMPONENTS, SHARED PROCESSES, METHODS, SIGNALING - TELEMETRY SCHEDULE & METRICS IN SMART CONTRACTS, SERVICE LEVEL AGREEMENTS

CHECKLIST: TRADE FEDERATION ECONOMIC FRAMEWORK EX:

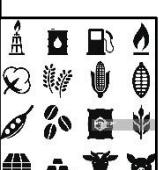
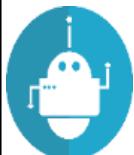
- 1) Organize with Organization Identifiers {"Org_ID"}
- 2) Track RWA Real World Assets / Commodities by </URN>
- 3) DISTRIBUTED STATE MACHINE SNAPSHOTS @ 15 / N min
- 4) Honor Satoshi's intent for Crypto to be paired w markets
- 5) Use NIST Quantum Random Number Beacon QRNB

USPTO 13/573,002 = Spaceship Earth's Signals & Telemetry Annex





Symbols
Rule
The World
OPSCODE
BREVITY
CODES
Mapped
To symbols
2525A,C D

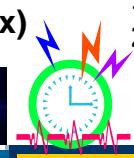


SYNC DELTA
DATA SNAPSHOTS

INFOCON
5 4 3 2 1
INFORMATION
CONDITION

Federation
Gateway

In the beginning (of time)..
There was the word (syntax)



HFT START, STOP, Time to LIVE



USPTO 13/573,002
573 U.S. 134 SCt 2347

Alice in Wonderland Ruling



E \$ € ¥ currency index



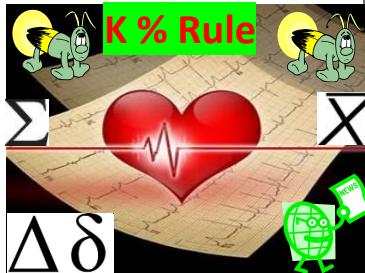
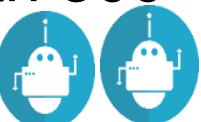
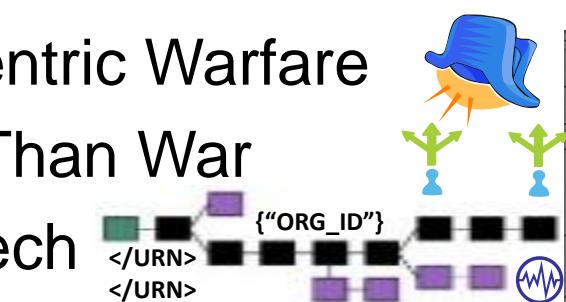
COMMODITIES



MEMO #1421



I.R.S.



$$\Delta\delta$$

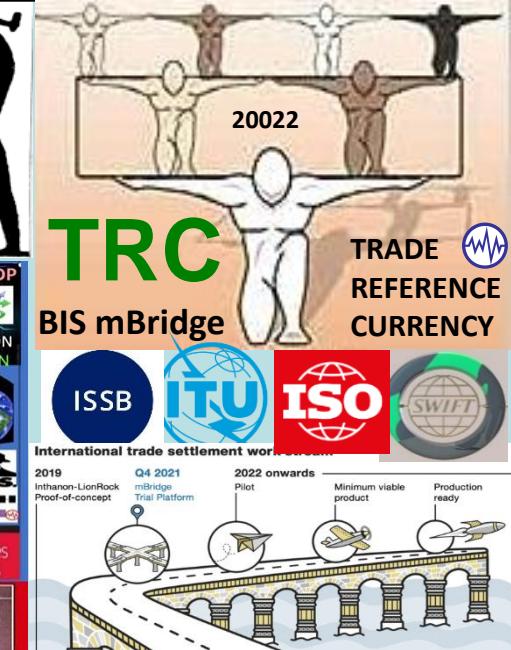


Net, Net of \$\$\$ money consists:

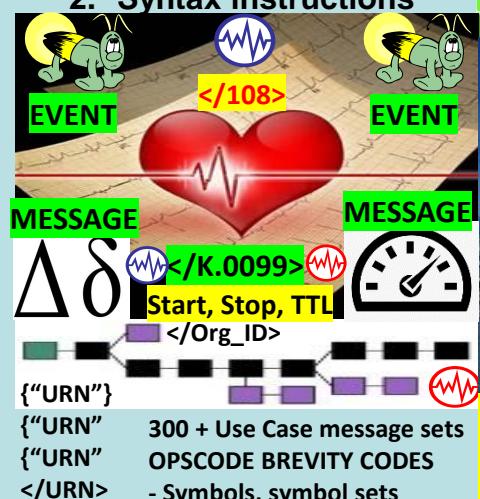
- 1) Epoch Time Cycles
- 2) Syntax used / not in epochs

World Game Annex K

Signals & Telemetry



“Build a new model”
Standing on the shoulders of giants



Eco Economic Epochs
For Programmable \$\$\$
Programmable Economy
Eco Economic Epochs
Symbol / Message Sets A.I.
FIREFLY Inspired Heartbeat Algorithm

Commodities Index Basket / FIAT PRICE Discovery Algo / MEDIATION



ALGORITHMIC STABLE COIN EQUILIBRIUM ALGORITHMS
COMMODITY INDEX BASKET PRICE DISCOVERY ALGOS

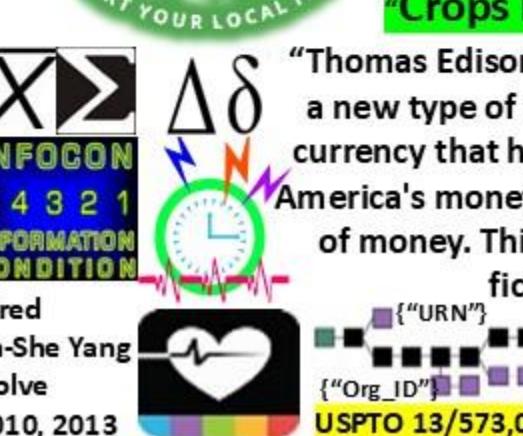


COMMODITY FUTURES TRADING COMMISSION



SLA Service Level Agreement
CLOSER = CHEAPER = CLOSER

FIREFLY – HEARTBEAT ALGORITHM CHINA: nature-inspired metaheuristic optimization algorithm developed by Xin-She Yang flashing behavior of fireflies (Yang, 2008), adapted to solve continuous optimization problems (Lukasik and Źak) 2010, 2013

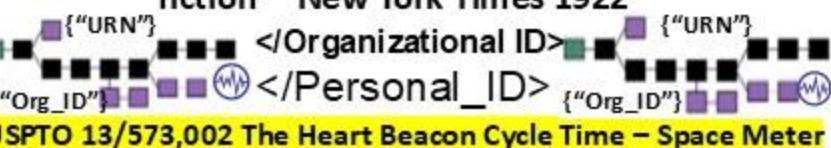


Edison's Monetary Option
Cambridge University Press 2009

"Crops hold their value best over time"

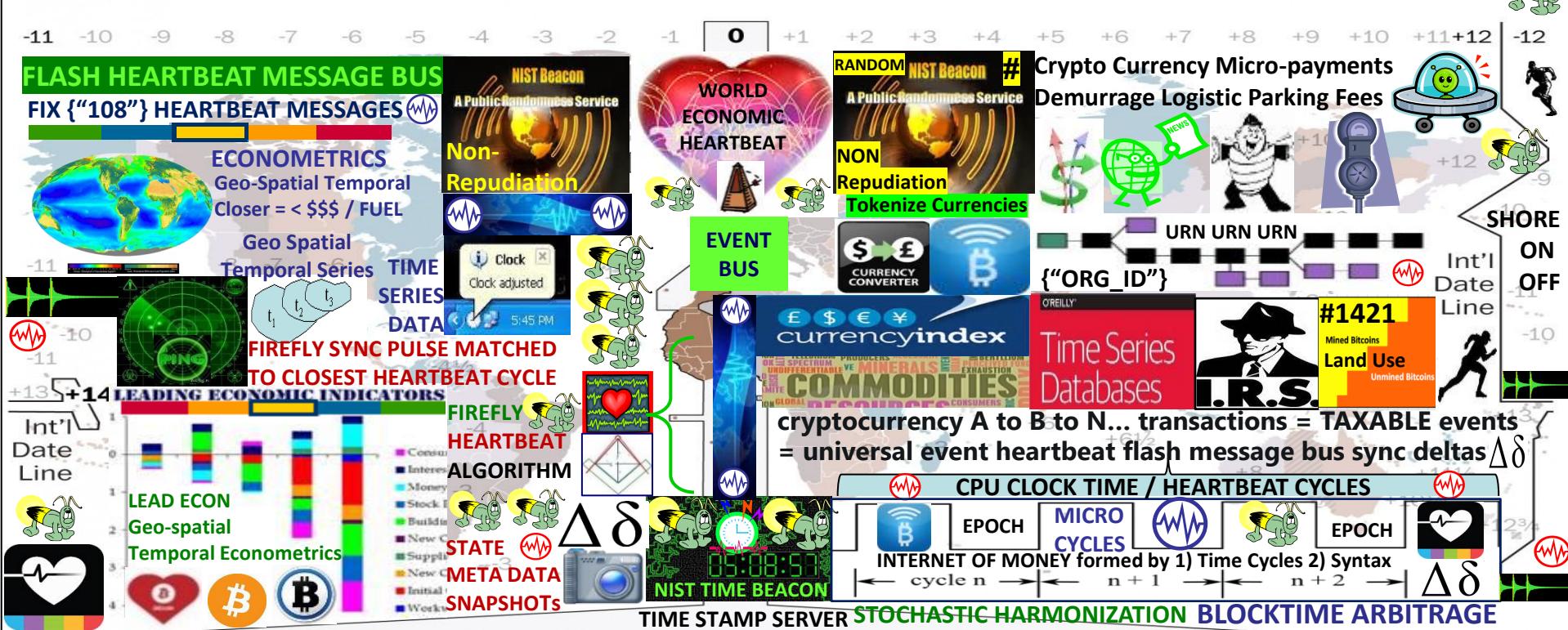
"Thomas Edison publicly introduced his latest invention: a new type of money, a crop index commodity-backed currency that he believed was the long-term solution to America's monetary woes. "I want to cast the variable out of money. This gold money is not good enough. It's a fiction" "New York Times 1922

USPTO 13/573,002 The Heart Beacon Cycle Time – Space Meter





The current standard time common throughout the world is based on a 24-hour clock, with zones that are either 12 hours ahead or behind **Coordinated Universal Time (UTC)**. However, these time zones are decided upon by individual governments, without overall coordination and can even extend fourteen hours ahead UTC. **UTZ TIME ZONE SYNC STOCHASTIC HARMONIZATION**



The proposed **Universal Timezone System** would do away with all these different time zones. Instead, it would be the same time all over the world, all the time.



ISO Technical Committee TC68

Financial Services

SC2 Security	SC4 Securities	SC7 Banking
-----------------	-------------------	----------------

RMG members nominated by P-member countries and A- liaison organisations

TSG & SEG members nominated by all member countries and liaison organisations

ISO 20022 LV v66

symbol (for A.I. man – machine interface) consensus? Blockchain Consensus Algorithms & Mechanisms In the world of blockchain consensus algorithms, consensus is the **HEART OF THE BLOCKCHAIN NETWORK**. It's main purpose is to achieve agreement on transactions among a distributed system (s). Proof of Formulation: PoF: generation / propagation of blocks using a previously agreed sequence between participants of the generation of blocks, formed by two groups: a generator group and/or Formulators and a group of synchronizers.

The slide features the Spacemesh logo at the top left, which includes a stylized geometric diamond shape and the word "spacemesh". To the right of the logo is a section titled "PROOF OF FORMULATION" in yellow, accompanied by a small green circular icon with a clock face. Below these elements is a blue rectangular box containing several smaller icons related to data storage and network nodes.

MACRO CYCLES
RULES / ROLES
INSTRUCTIONS
WORKFLOW
UMPIRE
COACH

90 feet

Blockchain BLOCK in 3D = CUBE
Cube has Length, Depth,
Height, Volume

90 feet

BANK #57316 1342247
GLAHM MAY NOT DIRECT
TO THE POINT
Physical = Opposite
of abstract + **AUSC**

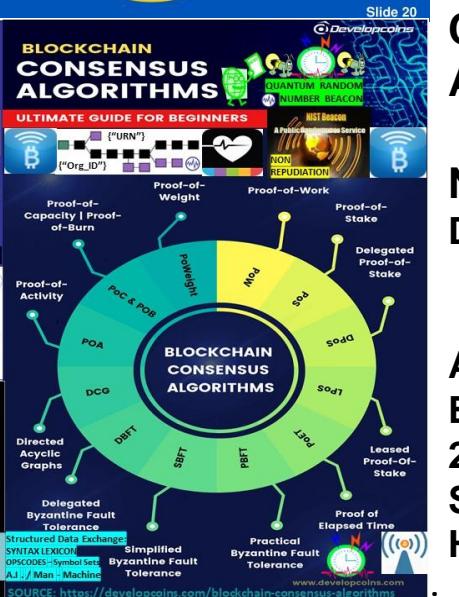
3rd Base

HEART BEACON CYCLE
TIME = SPACE METER
URL 13/573,002

first base

BLOCKCHAIN

WORLD OFFICIAL STANDARD



FOUNDATION STANDARDS TECHNOLOGY

- # ISO 20022 MIL STD Structured Data Exchange eDoD System of systems engineering

CONSENSUS ALGORITHMS

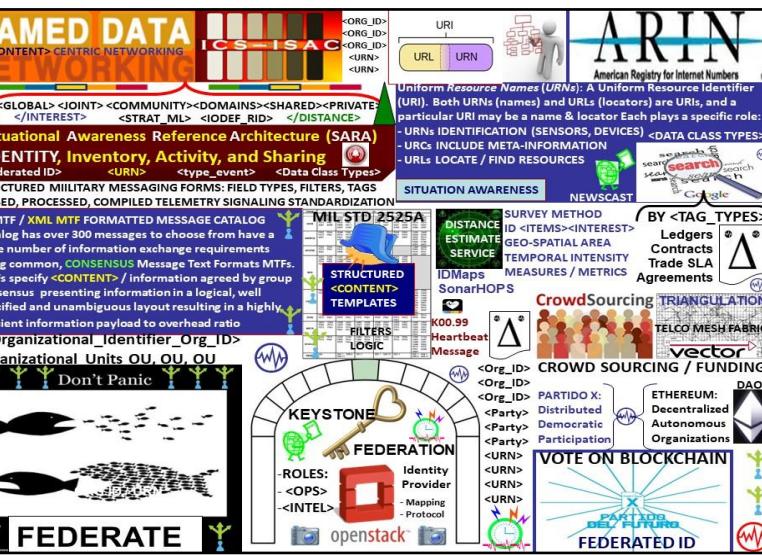
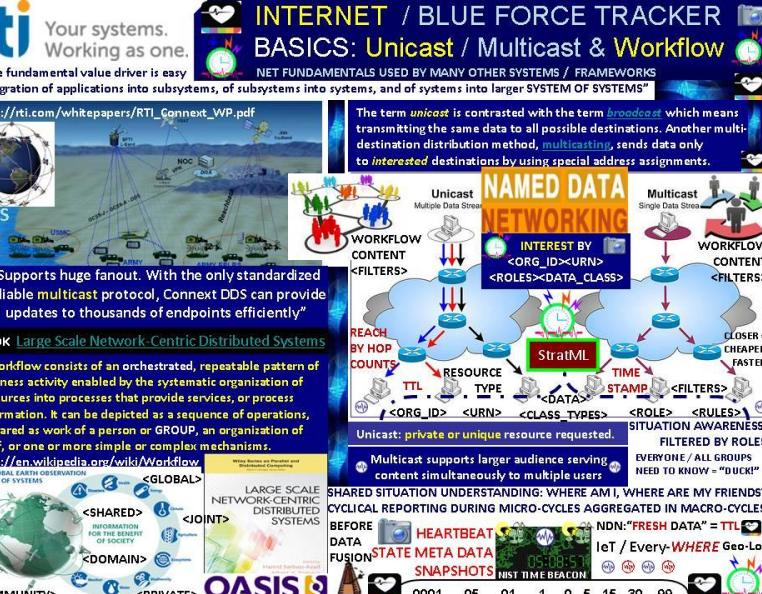
NDN: Named Data Networking

RIN, ASN-1 Binary XML 525 A,B,C,D Symbol Sets for Human – A.I.

Final Standard prepared by ISO Technical Committee TC68 Financial Services. It

Issues in ASN.1 Abstract Syntax Notation: A single standardization approach

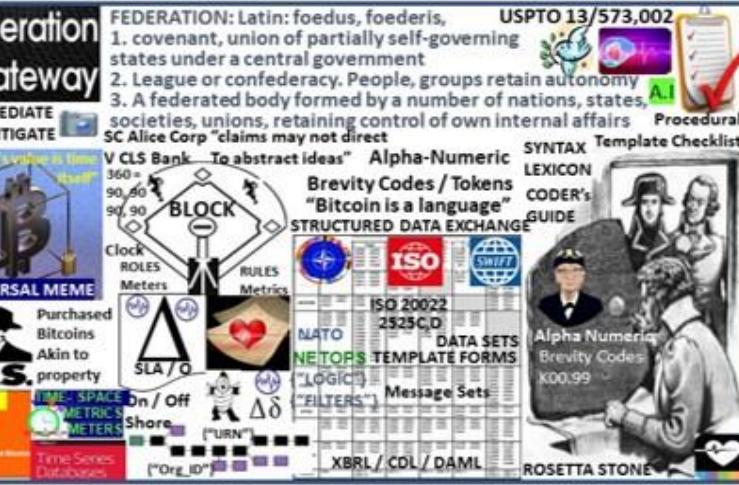
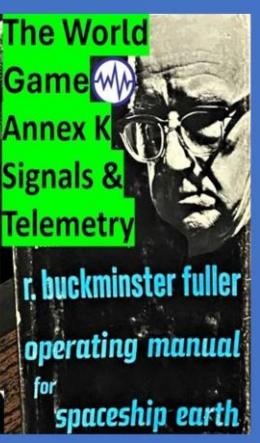
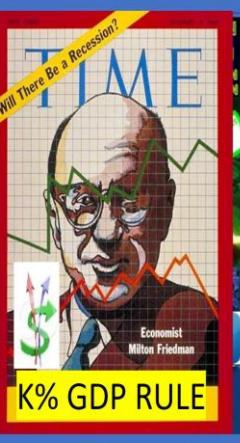
- standards initiatives. common platform for the development of messages using:
it way financial business areas, business transactions and message flows
communications
models into XML or ASN.1 schemas, whenever the use of the ISO 20022 XML or
www.iso.org/about-iso-20022

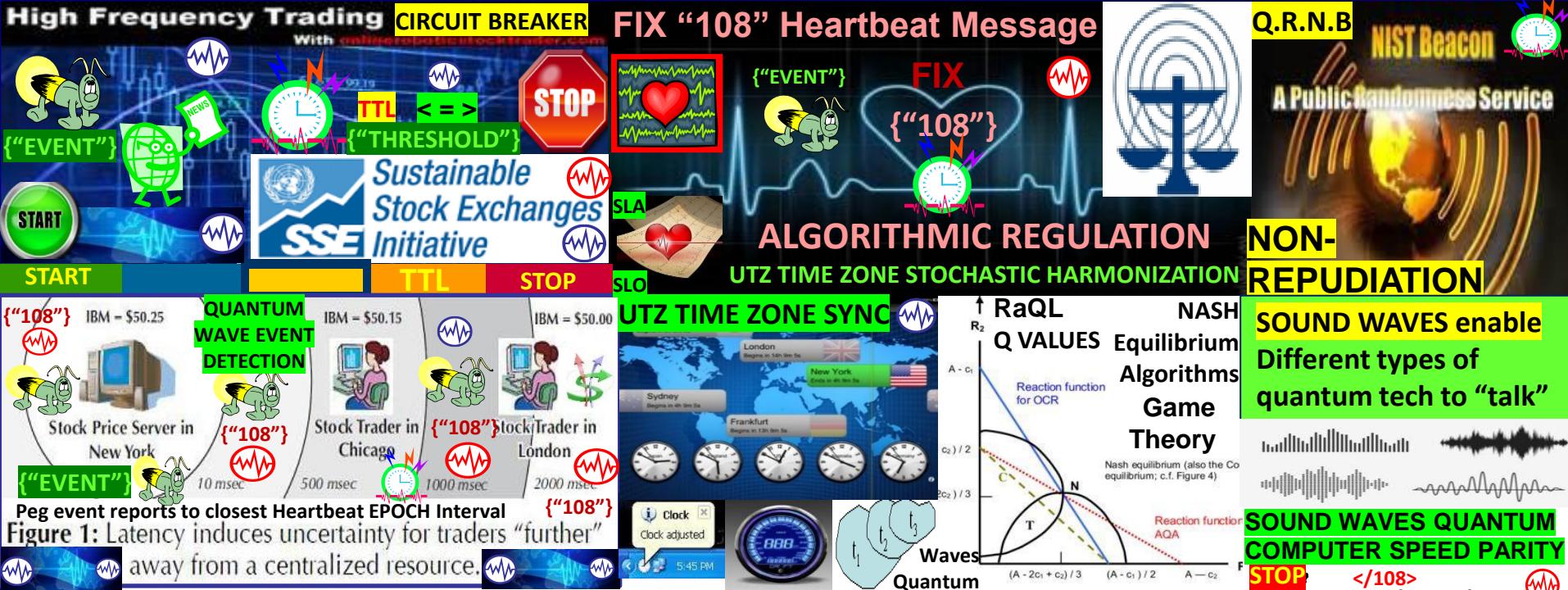


RBF's World Game

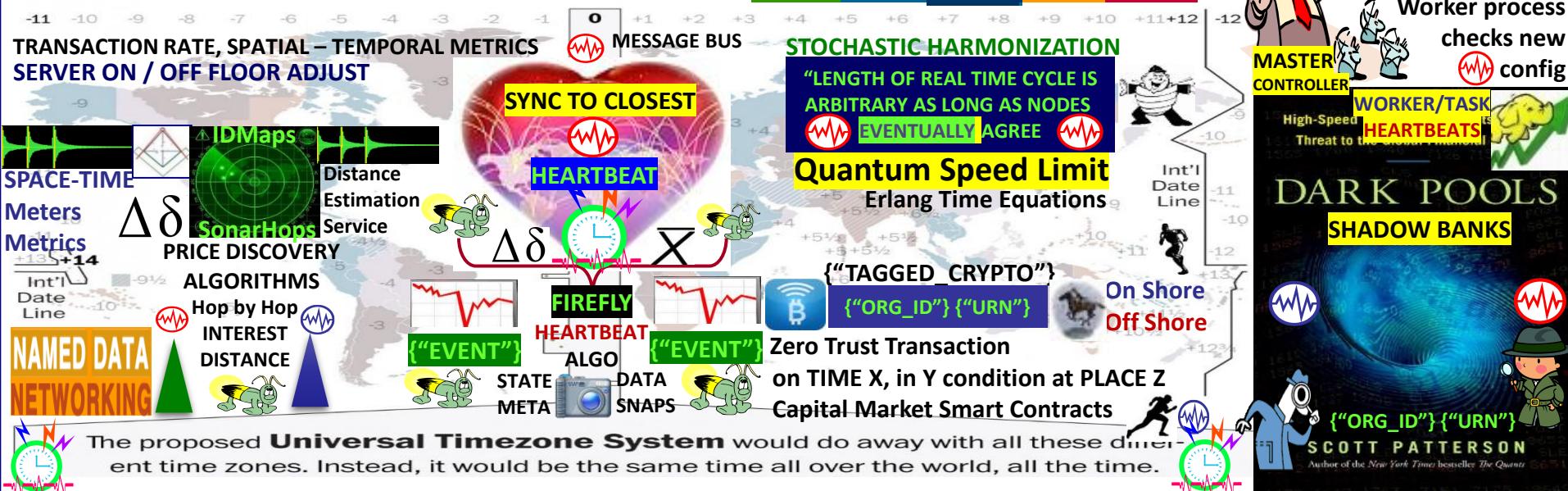
Signals & Telemetry

Annex K





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Artificial Intelligence / USPTO 13/573,002 Adaptive Procedural Template

Machine Learning: data input / output =
action (s): if, then else, or... do



Data, event cyclic time interval
sampling sync delta snapshots



Natural Language Processing programming
computers to process human languages to
facilitate interactions between humans /
computers

Data brevity OPSCODE sync delta
time slot samples @ set intervals
Mapped to symbols 25 A,B,C,D
MILSTD for Man – machine interface

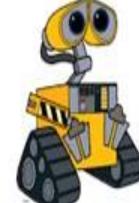


Automation & robotics: machines do repetitive
tasks

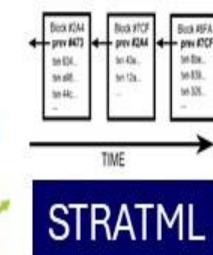
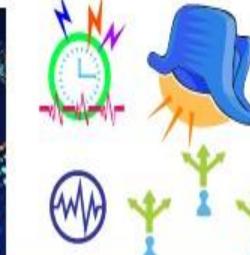
Military = repetition. temporal ,
UTZ – UTC sync harmonization,
international standards

Machine Vision: Machines capture,
analyze visual information, data

Military = geo-spatial temporal Applique' overlays

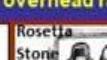


Structured
Data



USE CASE: standards adherence support for IEEE, ITU, ISO international data, internet, internet of money, IoT, Artificial Intelligence A.I ... standards

Systemic, signaling, synchronization of state
meta data encoded as brevity OPS CODE
tokens stochastically harmonized over the UTZ

FROM	TO				CODE GUIDE		
	GCCS-A	TAIS	ASAS	AMDPSCS	AFATDS	MCS	
ASAS	C002 C203 F002 F014 F015 F541 S201 S309	C002 C203		C002 C203	C002 C203 F014 F541 S305 S309	C002 C203 E400 F002 F014 F015 F541 S201 S309 S507	
TOKENS	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				F002 F015 S201	C203 C400 D630 E500 E002 F014	
AMDPSCS	OPSCODE BREVITY CODES					A.I.	
AFATDS	F002 F014 F015 F541 S201					INFOCON 5 4 3 2 1 INFORMATION CONDITION	
MCS	 	A423 C203 M505 F002 F014 F015 F541 S201	A423 A659 C002 C203 C400 C443 C447 C488 C501 C503 C504 C505 C506 C507 C508 E400 F002 F014 F015 F541 F658 F756 G489 K01.1 S201 S303 S507	A423 A659 A656 A690 C002 C203 C400 C505 F002 F014 F015 F541 S201	  	  	STRUCTURE MESSAGES ELEMENTS BY FIRE

MESSAGE CATALOG
300 + Use Cases

Data Elements: entity, attribute, relationship equivalents

PULSE MESSAGE =
0.99 </108> {"108"}

300+ Use Cases		Information Categories and Examples						
Object Categories	Examples	Location	Movement	Identify	Status	Activity	Intent	
OOB	SYNTAX LEXICON	STRUCTURED DATA lat/long	EXCHANGE spd/hdg	Message country / alliance, type/class	Sets readiness	targeting, recentering	COA {"Java JS"}	
Infrastructure	Comm, power, transportation, water/sewer	Machine Trust Language MTL network, grid	Machine Trust Language MTL throughput, flow rates,	Machine Trust Language MTL name, part-of relationships	CDL Contract Description Language BDA, op needs	repair, maintenance	YAML expansion plans	
Sociological	Culture, religion, economic, ethnic, government, history, languages	temples, historic structures	E-R Model Class Diagram	Relational Database Table	Object DBMS Class	XML DTD / Schema Element	TADLs Message	MTF
Geophysical	Terrain, weather, climatology, oceanography, astrometry	feature lat/long, alt/dpth	Attribute	Attribute Field / Column	Attribute Child Element or Element Attribute	DFT FFRN / FFN / FUN		
		Domain Value	PURCHASE CODES CODES	Instance, Value		TOKENS	DUI	FUD



Information Elements Roles

-



DN: Field Format Unit Designator #

N Field Format Index Reference #

ctured military messaging ID's
ssages, message sets, data
ent symbol fields </108>

A screenshot of a mobile application titled "Form Field Position & NUMBER". The main screen displays a form with several input fields, including a dropdown menu set to "108", a text field with "NDN", and a file selection field with "fly-Heartbeat". Below the form is a "Flash Messages" section with a blue progress bar. The status bar at the top shows signal strength, battery level (91%), and a green circular icon.

PROCESS MESSAGE BY PRECEDENCE
UNIVERSAL EVENT / ALERT MESSAGE BUS

OPERATIONAL NODES / ACTIVITIES

SYSTEM FUNCTIONS		PERFORMANCE	
Classification		11.6 - Kinematics	
1 - Category		11.6.1 - Pos / Vel / Acc (PVA)	
11.4.1.1 - Confidence Level		11.6.1.1 - Acceleration	
11.4.1.2 - Estimate Type		11.6.1.1.1 - Angular	
11.4.1.2.1 - Alternative		1.1.2 - Linear	
11.4.1.2.2 - Evaluated	PURCHASE	1 - Estimate Type	
1.4.1.3 - Value	CODES	1.2.1 - Estimated	
BOL	Friend	Neutral	1.2.2 - Observed
25C	Partner		1.2.3 - Predicted
			1.2.4 - Smooth
11.4.1.3.5 - Surface		Hostile	
2 - Platform / Point / Feature	Type	Competitor	
3 - Specific Type			
4 - Type Modifier		- Velocity	
5 - Unit		1.4.1 - Horizontal	
		1.4.2 - Vertical	
		VA Confidence	
		- Bearing Angle	
		- Bearing Angle Rate	
		- Covariance Matrix	

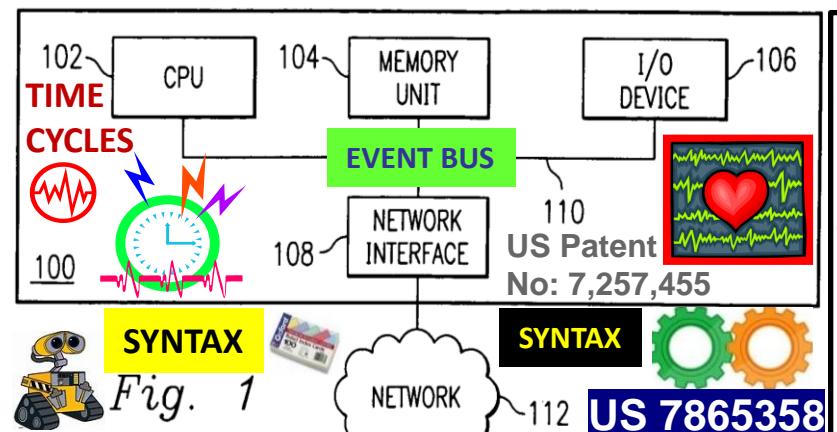


Encyclopedia Britannica:
“Language is a **SYSTEM OF SIGNS** having meaning by convention. In this sense, language need not be confined to the spoken word”.

**"SIGNS AND
SYMBOLS RULE
THE WORLD, NOT
WORDS OR LAWS"**

CONFUCIOUS

x code language parsed,
ssed during silicon chip
ated epoch time cycles
all things internet, net of
y. state meta data sync delta
beat snapshots during
n temporal micro-cycles



Machine-based system for transforming data from a source form to a target form, a tool is provided for sharing information established in developing a transformation model. The shared information may relate to rules for mapping source collection terms to standardized terms, rules for ordering or **SYNTAX**, rules for classifying terms or other transformation rules.

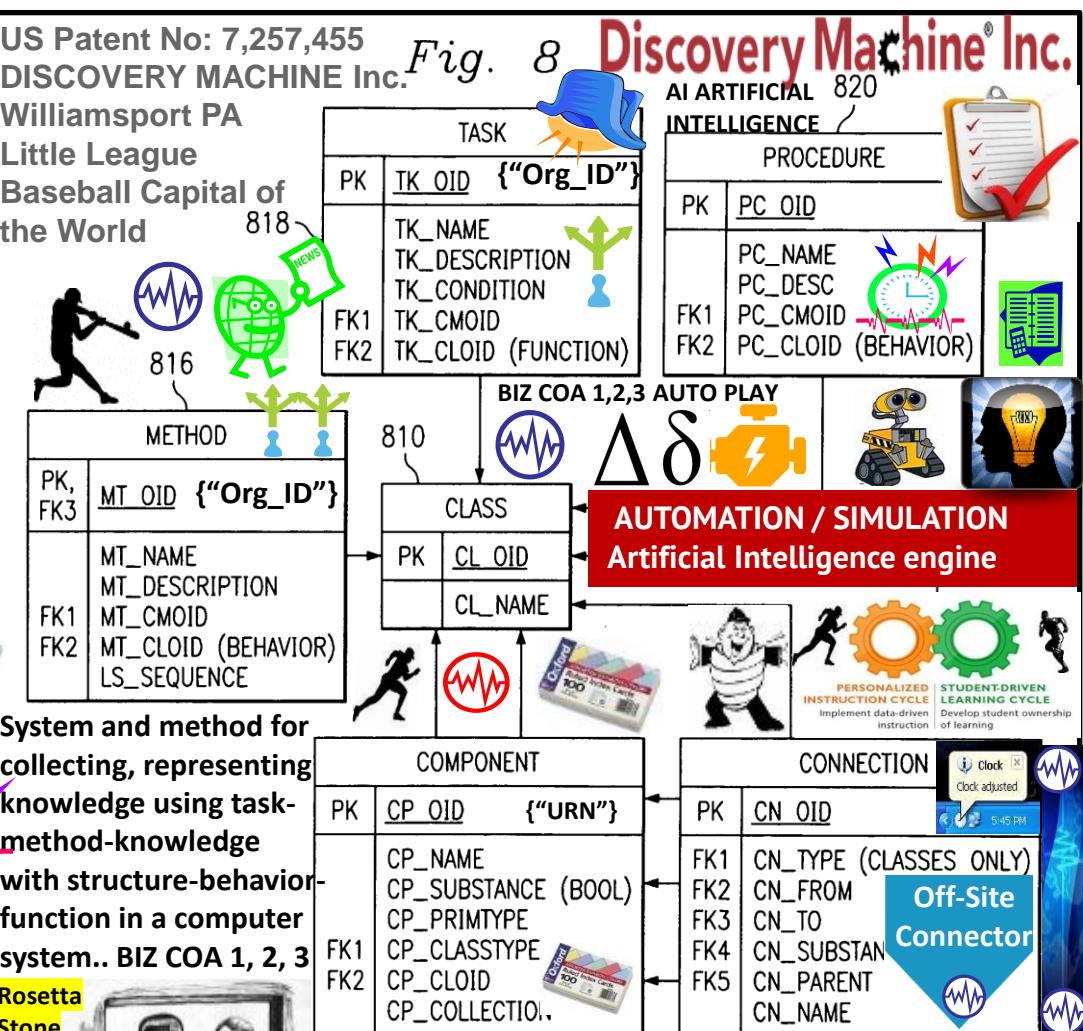
US 7865358 CLAIM 1. method converting textual data from source form to target forms, where target form differs from source form's linguistics, syntax

Multi-user functionality for converting data from a first form to a second form

Symbolic artificial intelligence: collection of all methods in artificial intelligence research that are based on high-level symbolic (human-readable) representations of problems, i.e.

NATO RULE THE WORLD, NOT OTAN
"SIGNS AND SYMBOLS RULE THE WORLD, NOT RULES OR LAWS"

Confucius
Alpha-numeric OPSCODE
Brevity codes mapped to symbols,
Symbol sets = structured data

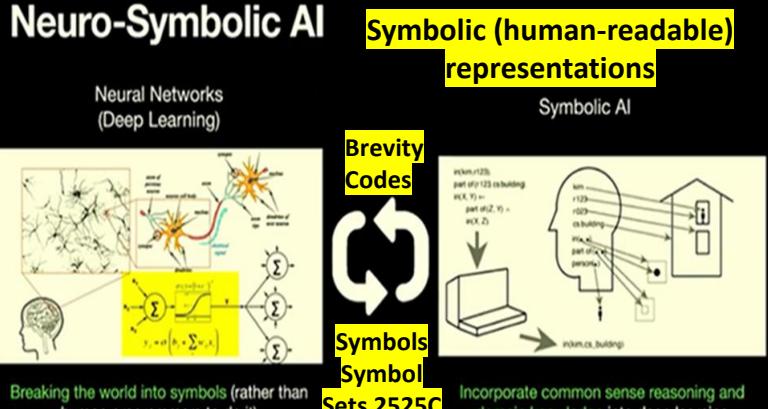


System and method for collecting, representing knowledge using task-method-knowledge with structure-behavior-function in a computer system.. BIZ COA 1, 2, 3



COMPONENT		
PK	CP_OID	{"URN"}
FK1	CP_NAME	
FK2	CP_SUBSTANCE (BOOL)	
	CP_PRIMTYPE	
	CP_CLASSTYPE	
	CP_CLOUD	
	CP_COLLECTION	

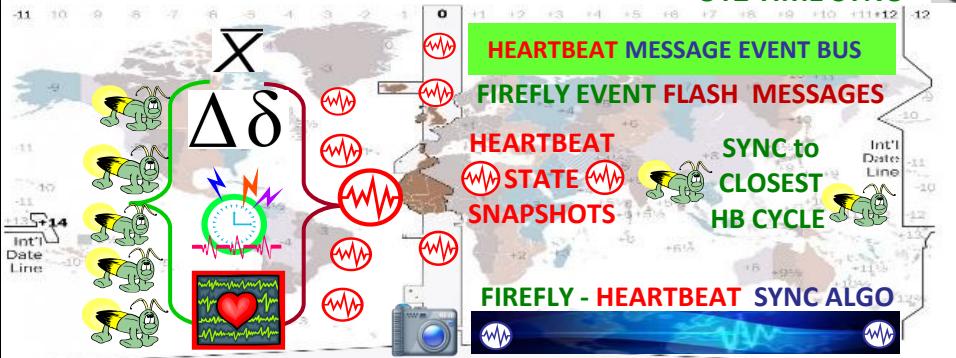
CONNECTION	
PK	CN_OID
FK1	CN_TYPE (CLASSES ONLY)
FK2	CN_FROM
FK3	CN_TO
FK4	CN_SUBSTAN
FK5	CN_PARENT
	CN_NAME



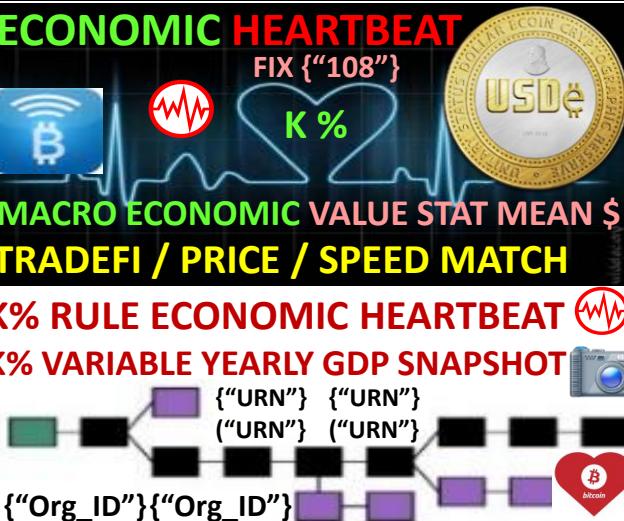
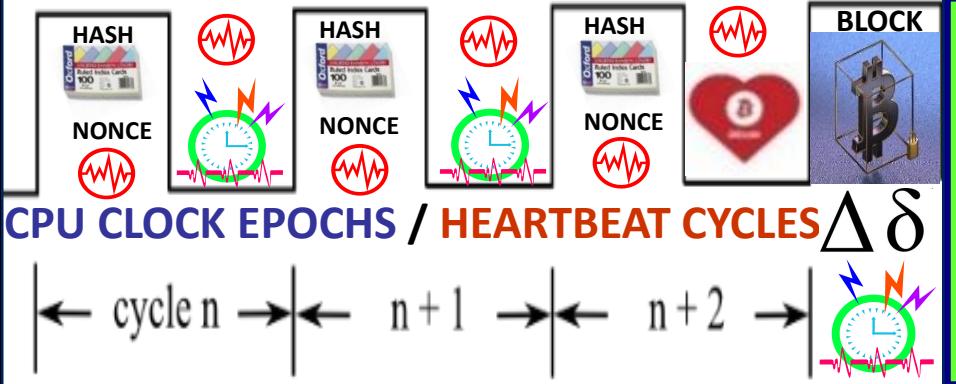




The current standard time common throughout the world is based on a 24-hour clock, with zones that are either 12 hours ahead or behind **Coordinated Universal Time (UTC)**. However, these time zones are decided upon by individual governments, without overall coordination and can even extend fourteen hours ahead UTC.



The proposed **Universal Timezone System** would do away with all these different time zones. Instead, it would be the same time all over the world, all the time.



'K-Percent Rule Macro economic money-supply heartbeat automatically adjusts \$ supply by a set amount "K" variable regardless of cyclical state of the economy e.g., set growth rate variable to real yearly % GDP



LEADING ECONOMIC INDICATORS



"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 sync in that Nodes are not interested in counting cycles and agreeing on the ID of the current clock cycle. There is no requirement regarding the length of a cycle with respect to real time as long as the length is bounded and all nodes agree on it eventually"



Firefly - Heartbeat Algo



University of Bologna Italy / Hungary

LENGTH OF REAL TIME CYCLE IS ARBITRARY AS LONG AS NODES EVENTUALLY AGREE



ECO ECONOMIC HEARTBEAT



("108")



K%



TIME-SPACE SYNC

ECONOMIC MACRO CYCLES

K% GDP ECONOMIC PULSE FEDCOIN WORLDCOIN

Luxor Temple Egypt:
"The shortest path towards knowledge of truth is nature"

Temple of Man



LUXOR
EGYPT

FIREFLY inspired Heartbeat Sync Algo

PRECEDENCE UTZ SYNC SYNC
PROCESSING PULSE DELTAS



NEURAL NET
EMULATION

NIST Beacon
A Public Randomness Service

NON
REPUDIATION



BLOCKCHAIN
PARSING Erlang
TIME EQUATIONS

{"Org_ID"}

{"URN"}

LEAD
ECONOMIC
INDICATORS

LEADING ECONOMIC INDICATORS

COMMODITY
PRICE INDEX

currencyindex

E \$ € ¥

Crypto Currency
TIME STAMP
SERVER / SERVICE



TERRA
TRC

ETF

LEAD
ECONOMIC
INDICATORS

LEADING ECONOMIC INDICATORS

COMMODITY
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currencyindex

E \$ € ¥

Crypto Currency
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INDICATORS

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COMMODITY
PRICE INDEX

currencyindex



TIME
Will There Be a Recession?

Economist
Milton Friedman

FRIEDMAN's K% RULE

ETF

LEAD
ECONOMIC
INDICATORS

LEADING ECONOMIC INDICATORS

COMMODITY
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E \$ € ¥

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E \$ € ¥

Crypto Currency
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COMMODITY
PRICE INDEX

currencyindex



STAT MEAN VALUE INDEX
SCHELLING POINT TRUTH

ALGORITHMIC REGULATION
TOKEN ECONOMICS

Price Indexes in
Time and Space
Methods and Practice

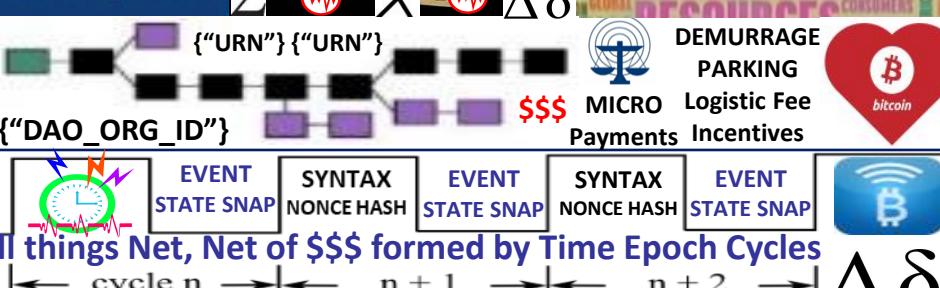
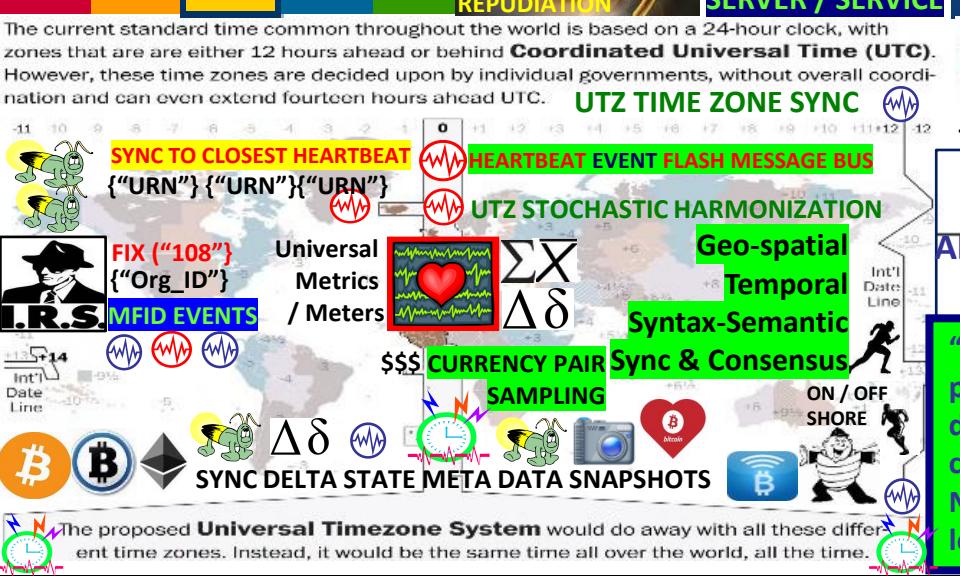
COMMODITIES
GLOBAL
PRODUCERS
CONSUMERS

DEMURRAGE
PARKING

Logistic Fee
Incentives

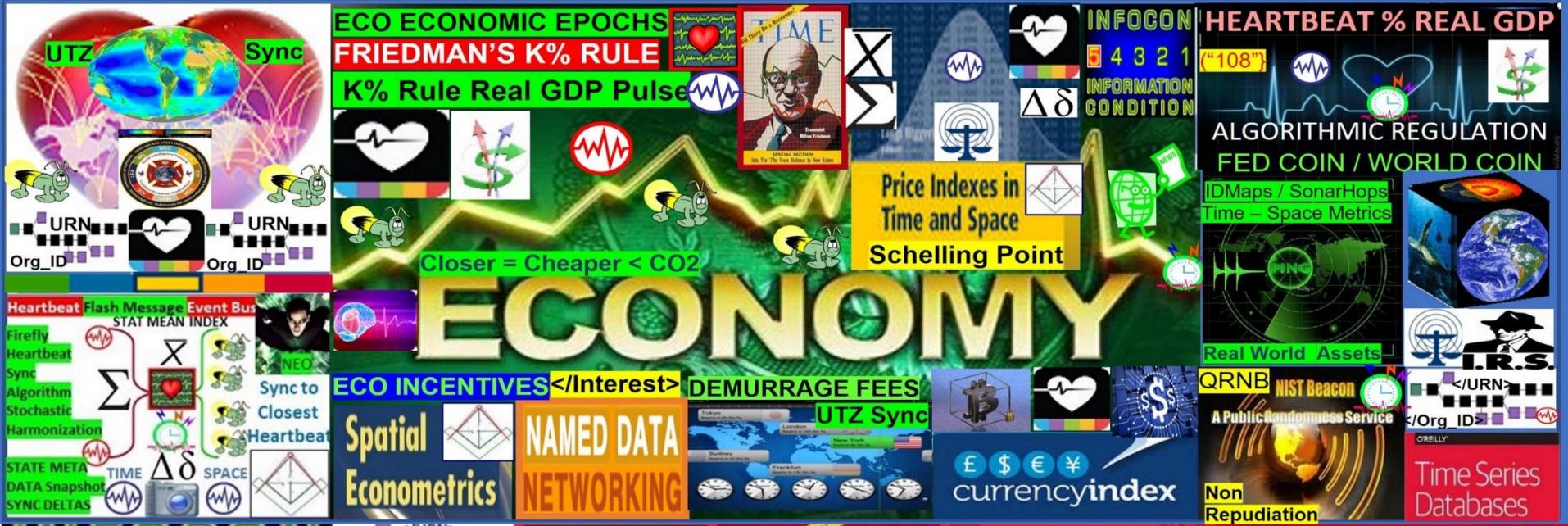
DEMRAGUE
PARKING

Logistic Fee
Incentives



"Heartbeat Synchronization nodes in a distributed system generate periodic local heartbeat events approximately at the same time. It differs from classical clock sync in that nodes are not interested in counting cycles and agreeing on the ID of the current clock cycle. No rule governs the length of a cycle with respect to real time as long as the length is bounded & all nodes agree on it eventually"

The proposed **Universal Timezone System** would do away with all these different time zones. Instead, it would be the same time all over the world, all the time.



Eco Economic Epoch Heartbeat: reuse of DoD / NATO signal, telemetry syntax - symbol set structured data exchange system of systems engineering framework for DAO Trade Federations, programmable money / Economy. It is time to stand on the shoulders of giants. SLA Service Level Agreement Eco incentives: closer = < time, cheaper, < fuel, < CO2 "Build a new model that makes the old model obsolete" Buckminster Fuller



Adaptive Procedural Template (checklist): Foundation tech for programmable \$\$\$, Economy / DeFi



- Reuse, mod of System of systems engineering framework, Syntax Lexicon Library data elements
- **STRUCTURED DATA EXCHANGE**
Reuse brevity codes mapped to 2525D symbol sets comprised of 300 + message sets for A.I. - machine Block-Time DLT arbitrage among Trade Federations </Org_ID> {“URN”} </URN> = COMMODITY

Eco Economic Epoch GDP Heartbeat signals and telemetry framework

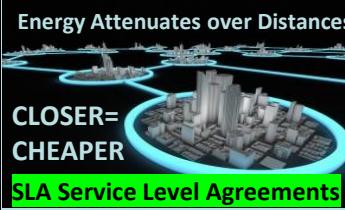


USE CASE: Banks - Tech firms are forming teams to assert foundation tech as a legal basis for IP intellectual property claims for programmable \$\$\$ DeFI

Use Case: Tokenize Europe 2025 initiative: reuse DoD / NATO's structured data brevity OPSCODES mapped to 2525A, B, C, D symbols needed for A.I. man-machine interface Reuse, modify 300 + Use Case message set templates data element FFIRNs FFUDNS or, redo a time, people intensive process that took decades to create, test and refine.



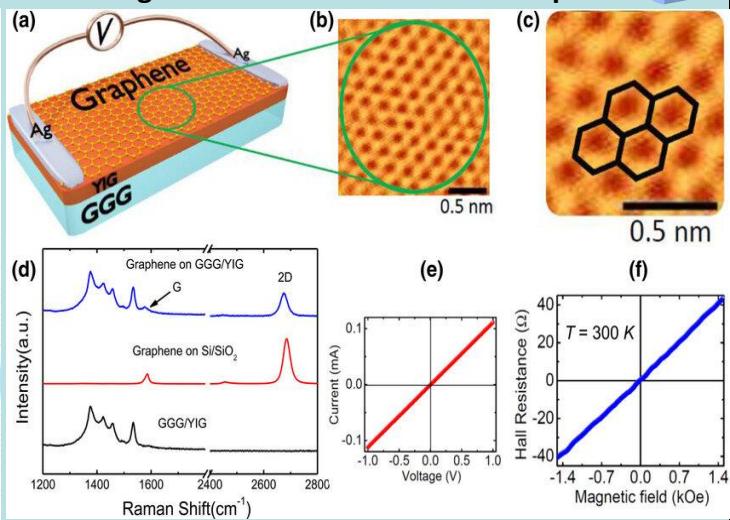
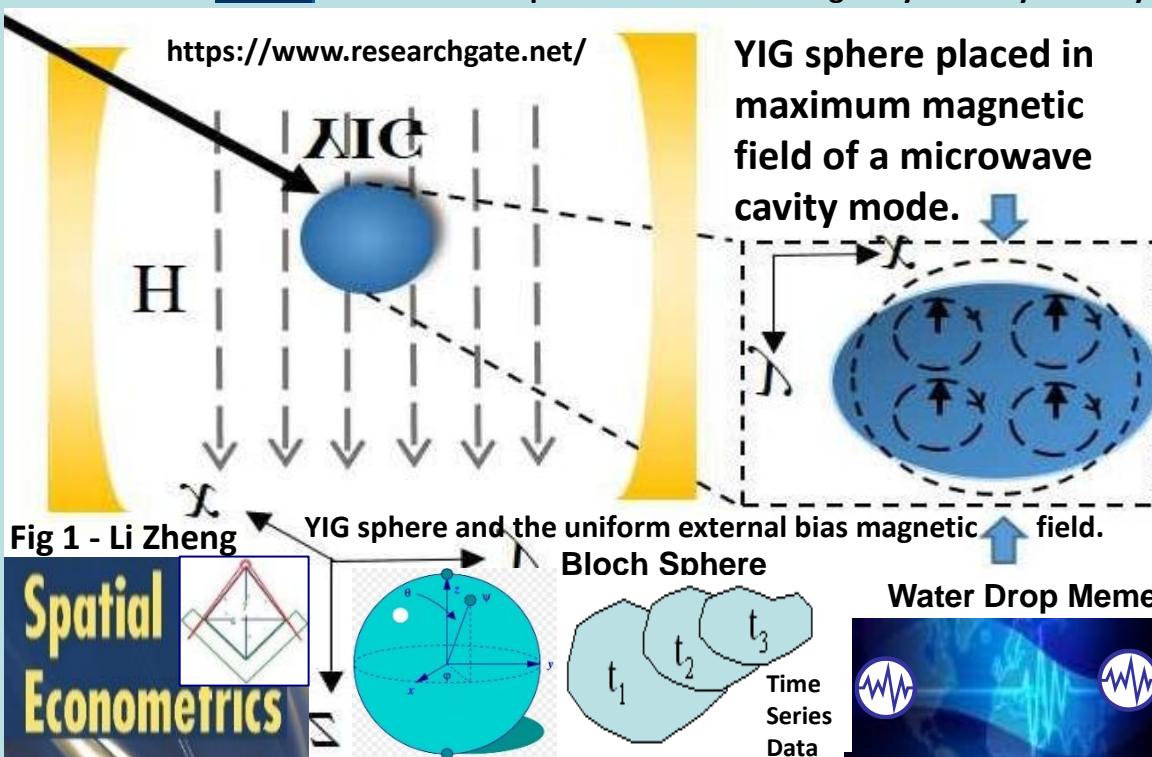




"When space-time spins, it creates mass. It produces energy in space that radiates. This radiation is what we call mass". Nassim Haramein

Nassim Haramein's work is geometrically based, at the fundamental level spacetime = honeycomb of overlapping spheres of energy each having a singularity at its center.

Yttrium iron garnet spheres serve as magnetically tunable filters and resonators for microwave frequencies. YIG filters are used for their high Q factors, typically between 100 and 200. Sphere made from a single crystal of synthetic yttrium iron garnet acts as a resonator. Wikipedia



YIG/graphene structures and the electrodes used to measure the dc voltage due to the IREE charge current in the graphene layer resulting from the spin currents generated by microwave FMR spin pumping.

IEEE 802.1AG HOP BY HOP DETECTION
IEEE 802.11 HbH HOP BY HOP CONTROL

The creation of spinlogic devices, which allow the control and transport of the spin current over long distances, is one of the major research challenges in spintronics. In this regard, graphene-a single atomic layer of carbon atoms in a honeycomb lattice [see Fig. 1(c)]-has attracted great attention as a promising material for spin-based devices due to its exceptional electronic transport properties, excellent charge carrier mobility, quantum transport, long spin diffusion lengths, and spin relaxation times [42]



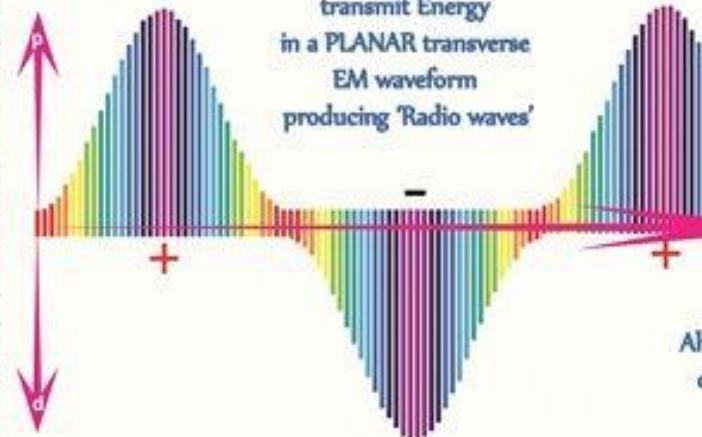
CLOSER = < Infrastructure
= CHEAPER SLA

ElectroMagnetic waveforms



ENERGY / DATA
Over
Transmission
Lines / Airwaves

Hertzian waves
transmit Energy
in a PLANAR transverse
EM waveform
producing 'Radio waves'



All Photons and EM waves
can have various directions
of polarisation with respect to
their direction of propagation



Teslian waves
transmit Energy
in a LONGITUDINAL waveform
producing
'Action at a Distance'

In 1887, Heinrich Hertz demonstrated the reality of Maxwell's electromagnetic waves by experimentally generating radio waves in his laboratory.

Although they utilise the same EM energies,
different EM waveforms can be produced
where the Electric fields are in 90°
opposition to each other thus
leading to conflicting theories
of EM wave propagation

The E fields are co-linear with the direction of propagation

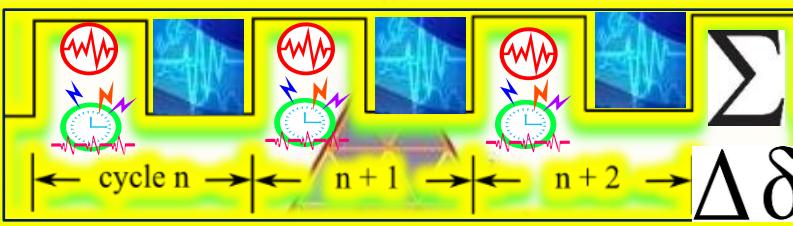
Through longitudinal waves, Tesla transferred energy to receiving devices.
He sent electrostatic forces through the air, transferred electrical energies
and noted the lethal forces produced by these waves.

Heinrich Hertz

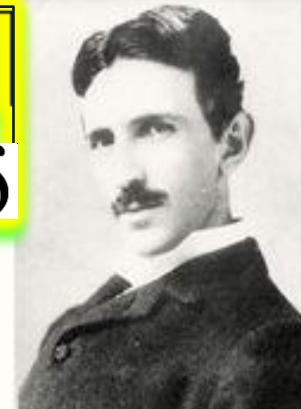


(22 February 1857 - January 1 1894)

INTERNET = 1. TIME EPOCH CYCLES 2. Syntax (not) Processed in cycle



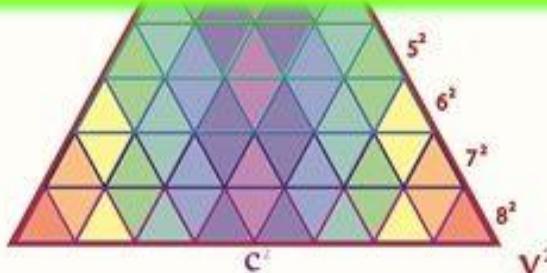
Nikola Tesla



(10 July 1856 – 7 January 1943)

Cycles per Second

Soon after Hertz's claim of discovering Maxwell's transverse EM waves Tesla visited him and personally demonstrated the experimental error to him.
Hertz agreed with Tesla and had planned to withdraw his claim, but varying agendas intervened and set the stage for a major rift in the 'accepted' theories
that soon became transformed into the fundamental "laws" of the electric sciences that have held sway in industry and the halls of academia to the present day



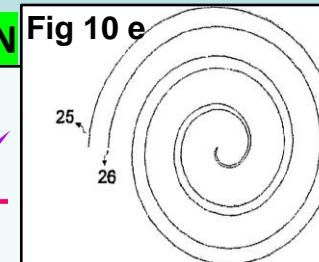
Volts per Second



PROPELLION SYSTEM USING THE ANTIGRAVITY FORCE OF THE VACUUM

ENERGY PRODUCTION

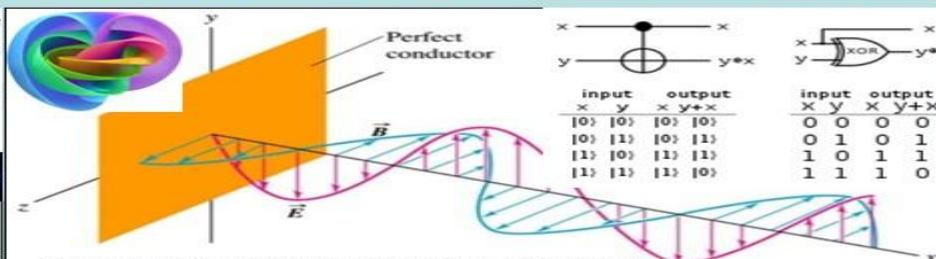
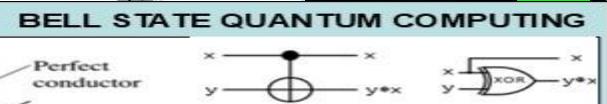
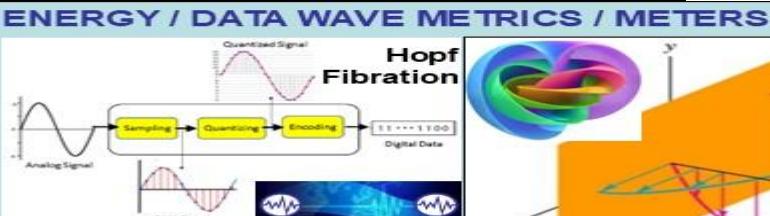
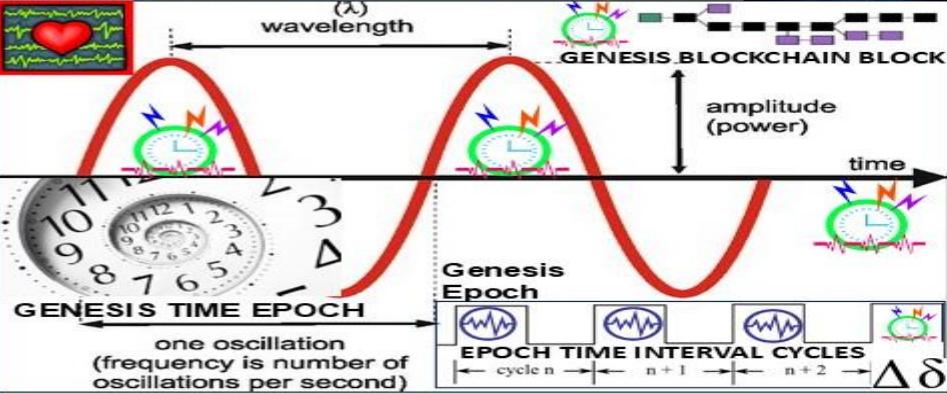
ABSTRACT: A propulsion system for aerial, terrestrial, underwater or space propulsion, through manipulation (or engineering) of the vacuum with proper electromagnetic interactions. Vacuum manipulation.. new form of propulsion, and has applications in ENERGY production and on CHANGE of TIME decay of radioactive elements. Opposing magnetic or electric fields create a mass repelling force, while attracting magnetic or electric fields create a mass attracting force. This vacuum manipulation process.. used to propel a mass that contains field sources that perturb the vacuum. .. the creation of a repulsion point in space through the interference of two or more longitudinal ELECTRO dynamic (micro) waves



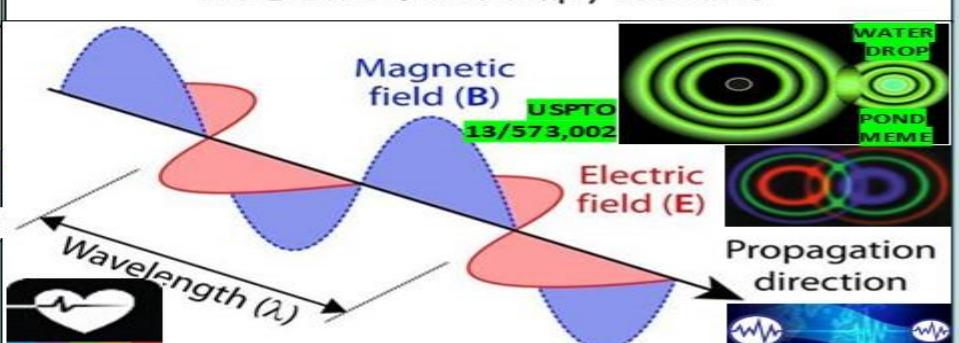
WATER DROP MEME

THESIS: All things net, net of programmable \$\$\$ are formed using:

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



A standing electromagnetic wave does not propagate along the x-axis; instead, at every point on the x-axis the E and B fields simply oscillate.

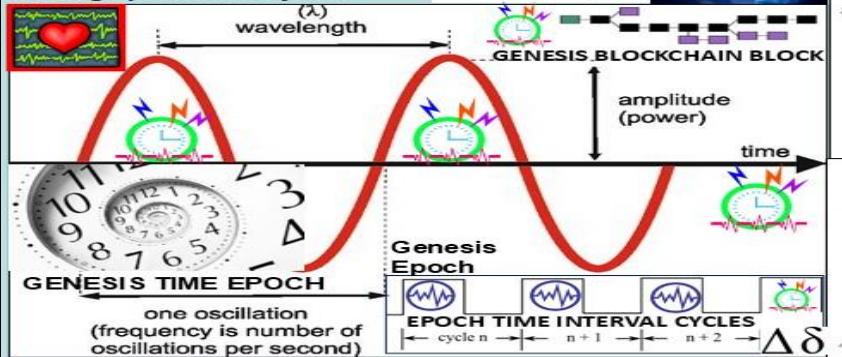


"Nature may reach the same result in many ways. Like a wave in the physical world, in the infinite ocean of the medium which pervades all.. Nikola Tesla

Link: https://phys.org/news/2018-06-quantum_1.html

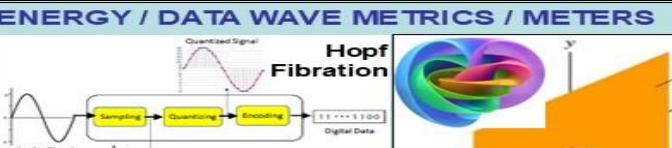
THESES: All things net, net of programmable \$\$\$ are formed using:

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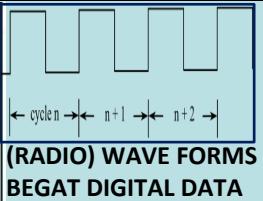
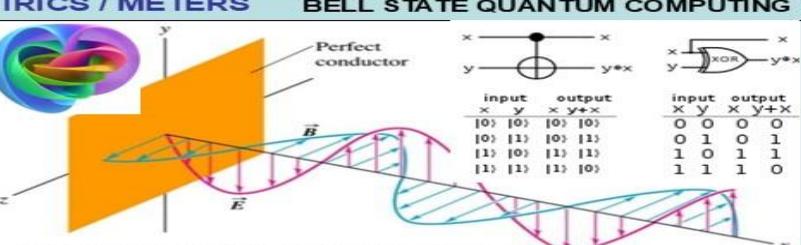


Quantum Computing Vibrations encode, process data like quantum computers. A simple mechanical system built from aluminum rods uses vibrations to encode information, mimicking quantum computing in a non-quantum system. "Light is made from photons, the quantum of light. mechanical vibrations or sound waves can be described in a quantum-mechanical manner i.e., composed of phonons: the smallest possible units of mechanical vibration"

[Link: https://phys.org/news/2018-06-quantum_1.html](https://phys.org/news/2018-06-quantum_1.html)

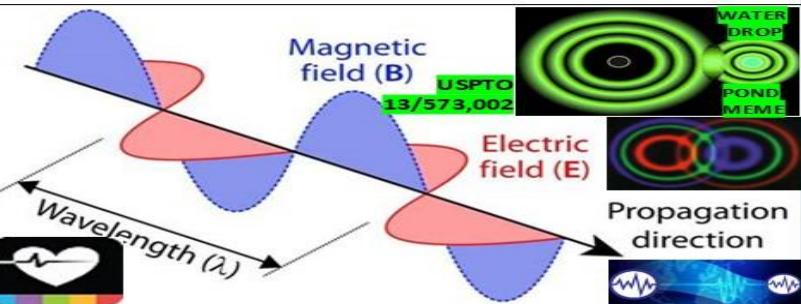


BELL STATE QUANTUM COMPUTING

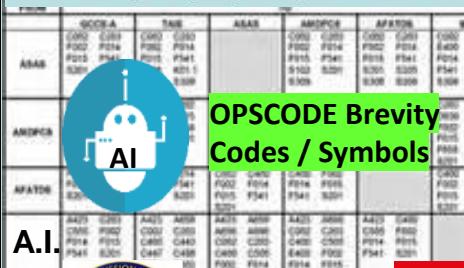


STANDING ELECTRO- MAGNETIC WAVE

A standing electromagnetic wave does not propagate along the x-axis; instead, at every point on the x-axis the E and B fields simply oscillate.



"Nature may reach the same result in many ways. Like a wave in the physical world, in the infinite ocean of the medium which pervades all.. Nikola Tesla



USPTO 13/573,002

573 U.S. 134 SCt 2347

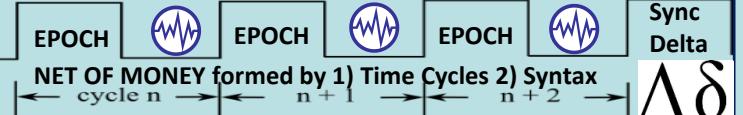
"Alice in Wonderland Ruling"

A.I.



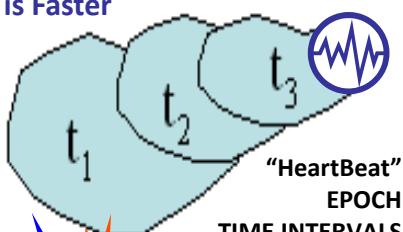
</Org_ID> TIME CHAIN

{"URN, URN, URN"}



WATER DROP PHYSICAL NATURAL MEME

USPTOb13/573,002



Time Series

Value

Time



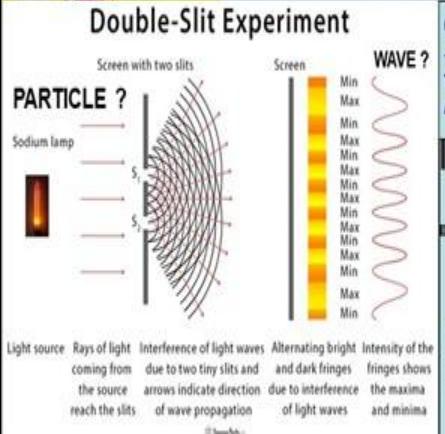
Quantum Financial System vs BlockChain

TIME
CHAIN

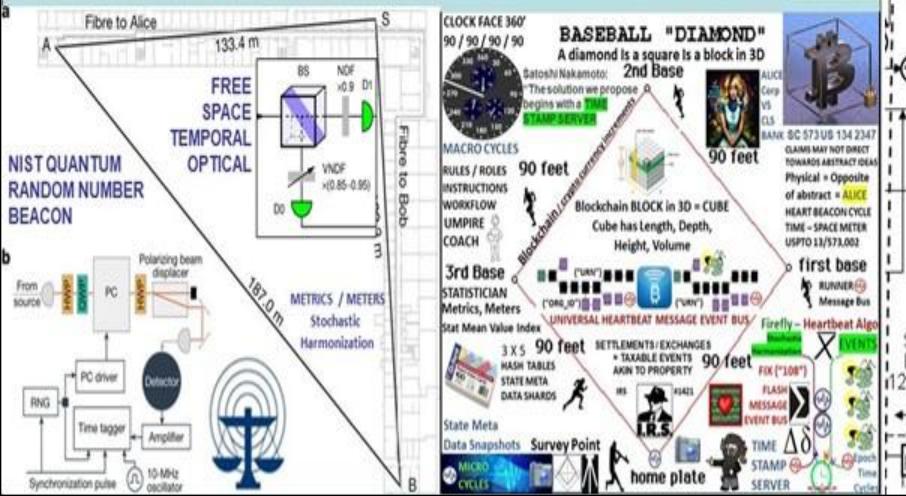
QFS

TIME
STAMP
SERVER

<https://gesara.news>



SCOTUS ALICE RULING: "Claims may not direct towards abstract ideas" / Physical = opposite of abstract



THE SOLUTION WE PROPOSE BEGINS WITH A TIME STAMP

uchi Nakamoto

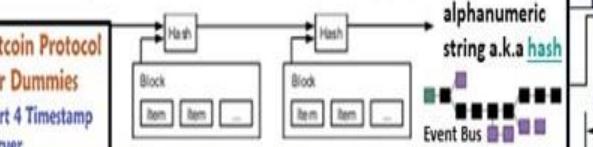
Craig WRIGHT
a.k.a.
Satoshi Nakamoto

"THE VALUE OF
BITCOIN IS
TIME ITSELF"

Wright Brother's 1st Flight

3. Timestamp Server

The solution we propose begins with a timestamp server. A timestamp server works by taking a hash of a block of items to be timestamped and widely publishing the hash, such as in a newspaper or Usenet post [2-5]. The timestamp proves that the data must have existed at the time, obviously, in order to get into the hash. Each timestamp includes the previous timestamp in the hash, forming a chain, with each additional timestamp reinforcing the ones before it.



All things net, net of money are
aligned with 1) epoch time cycles
Syntax parsed as instructions

8

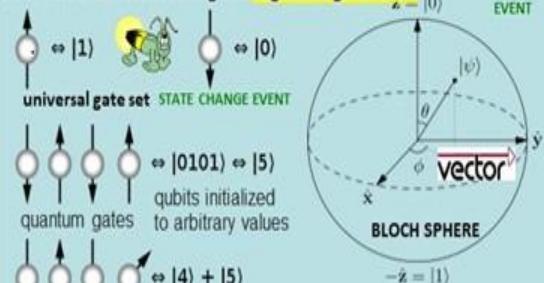
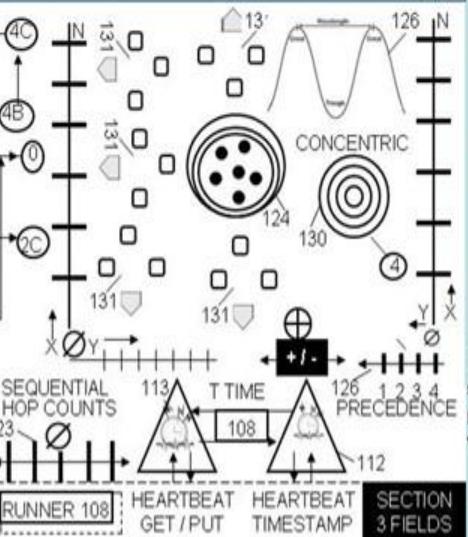
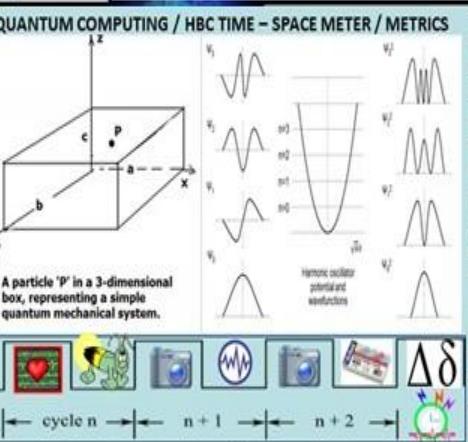
"THE VALUE OF BITCOIN IS TIME ITSELF"



#QuantumComputing USet Alice Corp Vs CLS Bank compliant memes:
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: the two states are vertical polarization and horizontal polarization. In a classical system, a bit has to be in one state or the other. Quantum mechanics allows a qubit to be in a superposition of both states at the same time, a fundamental quantum computing property

US Sct Alice Corp Vs CLS Bank Physical memes
Linear sequential "Paul Revere" meme = horizontal polarization
Vertical polarization vector from a known point 0 null Space Memes

Instead of each bit having two potential states — on or off — a quantum bit or qubit has three. It can be on, off, or both, and you only know which one it is once you look at it. How can you tell if a bit of data is correct if looking at it might change its state? 



qubits can be in a superposition of all the classically allowed states

$$|00\rangle = \begin{bmatrix} 1 \\ 0 \\ 0 \\ 0 \end{bmatrix}, |01\rangle = \begin{bmatrix} 0 \\ 1 \\ 0 \\ 0 \end{bmatrix}, |11\rangle = \begin{bmatrix} 0 \\ 0 \\ 1 \\ 1 \end{bmatrix}$$

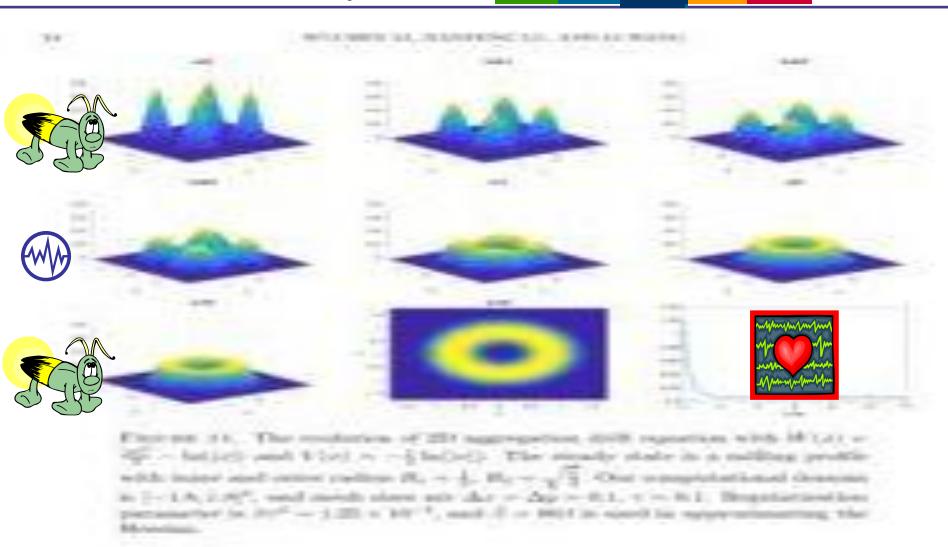
Silicon device movement is controlled through use of microwave pulses. As an electron spins up, a binary value of 1 is generated, when the electron spins down, a binary value of 0 is generated.



Fock state number state quantum state that is an element of a Fock space with a well-defined number of particles (or quanta)

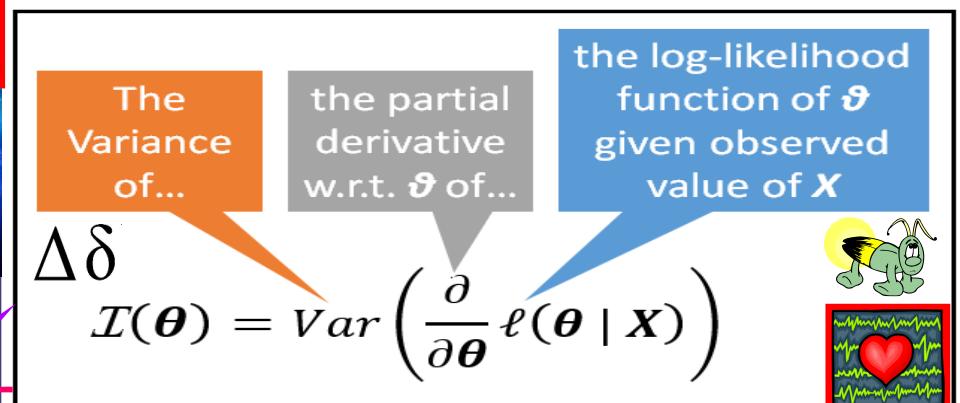
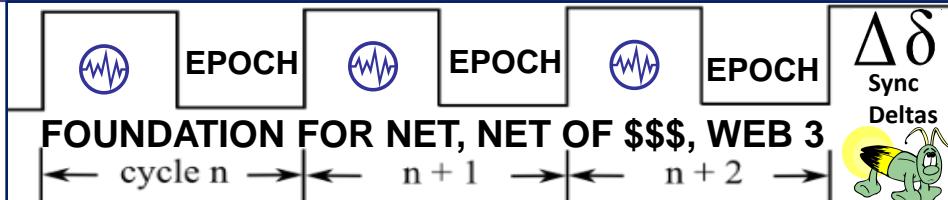
Fisher information flux flows are generated and stored in wave packets as they propagate. This temporal aspect is crucial for understanding how information builds up in a system over time

USPTO 13/573,002 Time – Space Meter



$$\Delta I_{\theta} = \nabla \cdot \left[\rho F \left(\frac{\partial}{\partial \theta} \ln \rho + F(\theta) \right) \right]$$

Note, $\Delta I_{\theta} = -10^3$ and related considerations concerning of how Conservation, the other name, we also want to investigate how could eliminate an unmeasured uncertainty. As seen in Fig. 3.6, the derivative of uncertainty due to the unmeasured flux is -10^3 , very rapidly, the total uncertainty constant, positive, and also represents values of the model's main component via our method with the current experiments could determine as general models.



Continuity equation for flow of Fisher information in wave scattering: Nature / ISF International Space Federation

An electromagnetic wave scattered at an object carries locally defined and conserved information about all of the object's constitutive parameters. Specifically, we introduce the density and flux of Fisher information for general types of wave fields and identify the corresponding sources and sinks of information through a fundamental continuity equation. Our theoretical predictions involve a movable object embedded in a disordered environment by measuring the corresponding Fisher information flux at microwave frequencies. Our results improve the understanding of the generation, propagation of information supports tracking and designing the flow of information in complex system of systems environments.



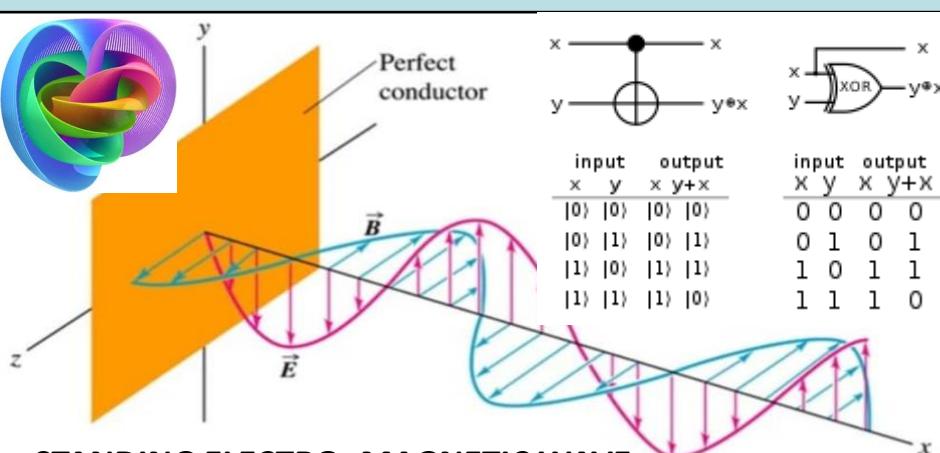
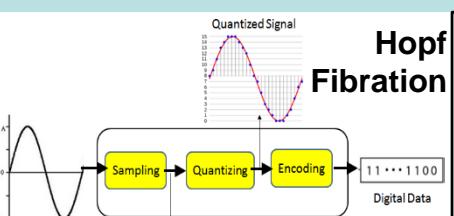
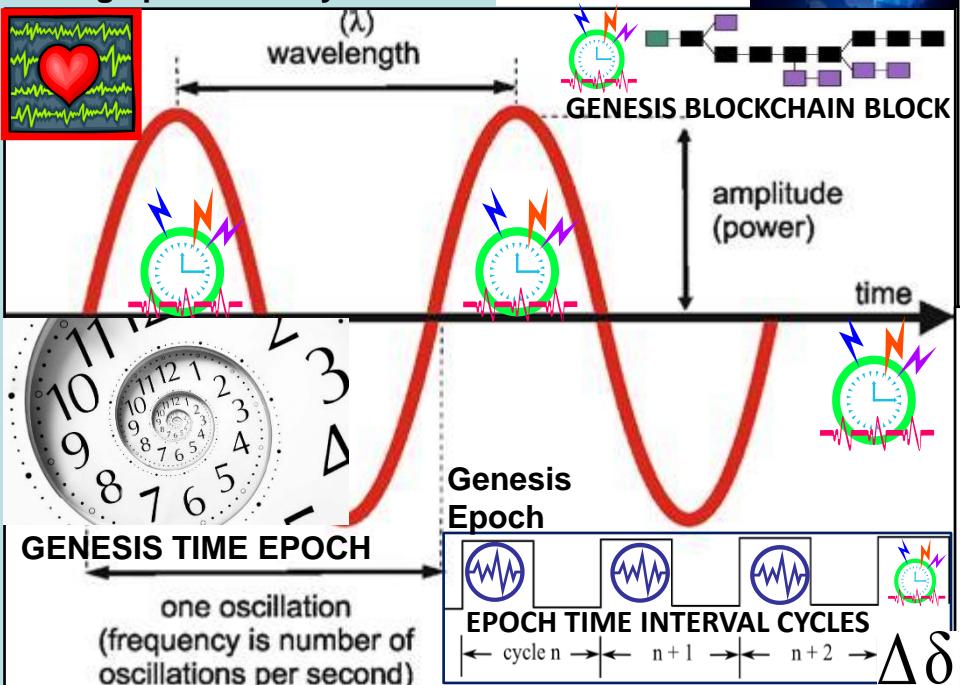
THESIS: All things net, net of programmable \$\$\$ are formed using:

ENERGY / DATA WAVE METRICS / METERS

BELL STATE QUANTUM COMPUTING

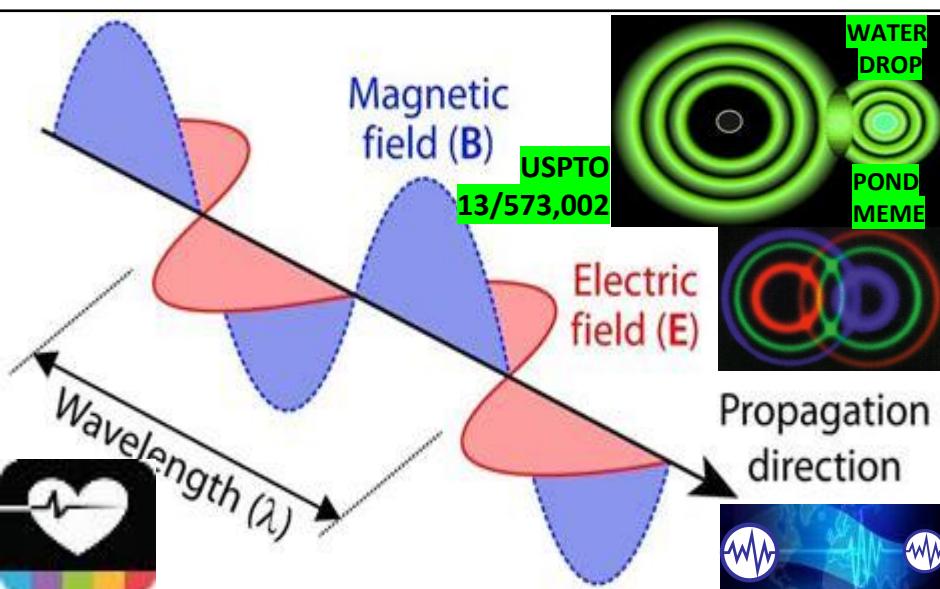
1) Time epochs created by quartz crystal silicon chips

2) Syntax used / not used as programming instructions during epoch time cycles



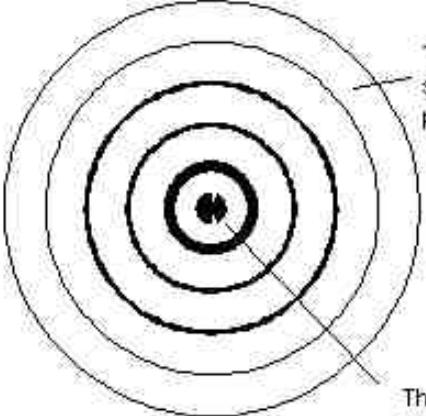
STANDING ELECTRO- MAGNETIC WAVE

A **standing** electromagnetic wave does not propagate along the x-axis; instead, at every point on the x-axis the E and B fields simply oscillate.



"Nature may reach the same result in many ways. Like a wave in the physical world, in the infinite ocean of the medium which pervades all.. Nikola Tesla

Water drop in pond meme <https://www.spaceandmotion.com/>



Paul Revere Linear, sequential meme

And as I shall explain in Einstein's relativity, when we apply this one law, where the wave velocity changes the wavelength also has a corresponding change such that we can never observe this change. This relates to the Lorentz transformations, the negative solution of the Michelson Morley experiment, and why we always measure a constant velocity of light even when it changes, thus why we cannot measure our motion through absolute space.

With respect to time, physics was always telling us that time is caused by frequency (and fundamentally by motion as the wave motion of space), since time equals the inverse of frequency $t=1/f$.

From our wave equation we see that while the velocity and wavelength change, the frequency remains constant, giving rise to an absolute time in the universe. This was one central problem of Einstein's relativity, he changed time and maintained a constant velocity of light, when the opposite is true. (Yes, this one property of waves from this simple wave equation has caused us so much confusion!).

"What we observe as material bodies and forces are nothing But Shapes and variations in the structure of space" Schrodinger

Physical Reality: 1. One Substance. Space exists with properties of an elastic solid wave medium, propagating longitudinal waves in all directions, thus forming standing waves in all directions. When these standing waves are in-phase (coherent) around a central point then a spherical standing wave naturally forms - space vibrates in and out around the central point, which we call the particle. There are two opposite phase spherical standing waves, which create the electron and positron (matter and antimatter),

2. One Law. The velocity of the waves is proportional to the wave amplitude (bigger waves travel faster). Where these waves are coherent, forming spherical standing wave 'particles', the wave amplitude is higher, and the waves travel faster. This, as i shall explain, is the foundation of all matter interactions, the source of causal connection and absolute truth.

Why matter and energy are equivalent, since a wave is a flow of energy between two states of the wave medium Space - kinetic energy (vibratory motion of space) and potential energy (elastic deformation of a nearly rigid space). Why matter and antimatter annihilate, due to destructive wave interference. How matter and antimatter can be created from apparently 'empty' space. How science can exist, since the spherical in and out waves provide continuous two way communication between matter in space (empirical knowledge), and the waves behave in a necessary manner due to this one law (logical knowledge).

Wave velocity is the velocity of light, $\sim 3 * 10^8$ m/s, the wavelength is the Compton wavelength $\sim 10^{-12}$ m, and the frequency $\sim 10^{20}$ Hz. So in a pin head there are roughly a billion billion billion standing waves, each vibrating a billion trillion times a second. i.e. These standing waves are very small, and vibrate very fast, thus explaining how such complex standing wave structures (like us) can evolve in space. The fundamental equation of the universe is the simple wave equation; Velocity (C) = Frequency (f) * Wavelength (y)

Combined with the equation of the sphere (which is also Pythagoras' Theorem and the metric equation of Special Relativity), and explains the geometric foundations of reality, why space is three dimensional. $x^2 + y^2 + z^2 = r^2$

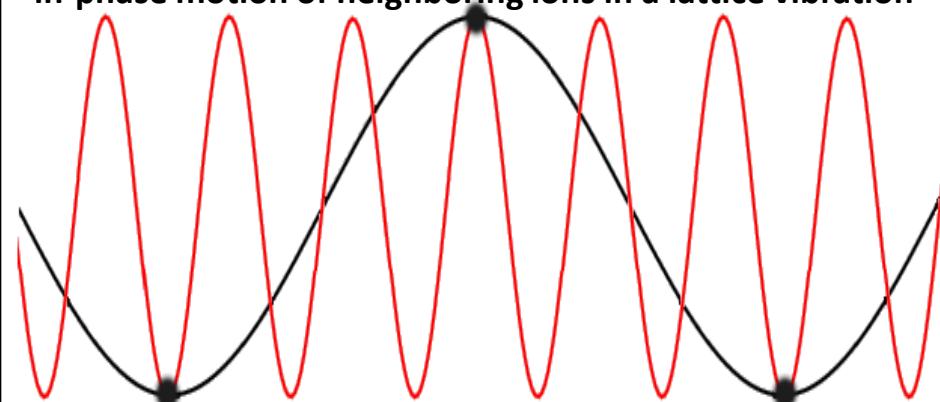


"Simplicity is the ultimate sophistication".
(Leonardo da Vinci)

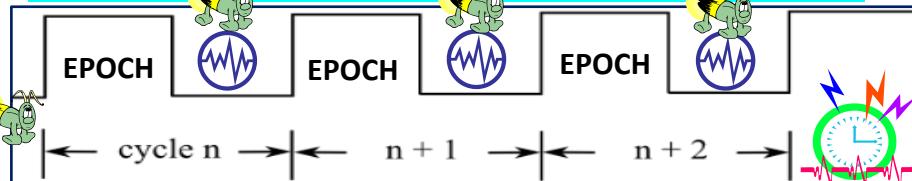
ACOUSTIC PHONON

USPTO 13/573,002

in-phase motion of neighboring ions in a lattice vibration

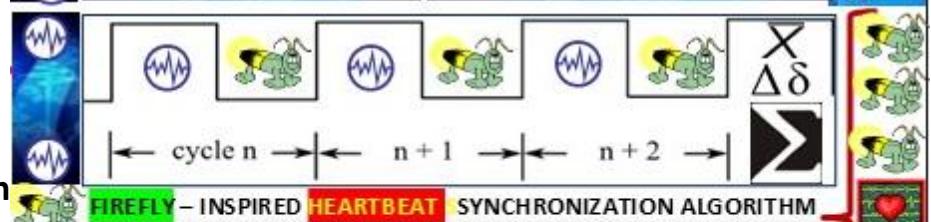
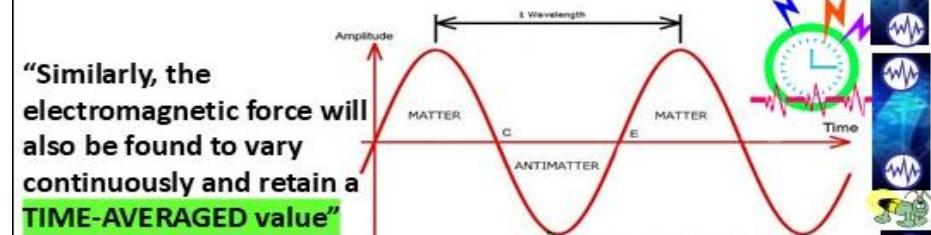


Phonons: A phonon is a quantum of the lattice vibration, the collective motion of atoms constituting a crystal. There are two types of phonons: optical and acoustic. The optical phonon has high-frequency oscillation in the THz range and the unit cell center of mass does not move. It undergoes a dipole interaction with light. The acoustic phonon propagates at sound velocity, which is the first derivative of the phonon dispersion curve at the Γ -point (wave vector $k \approx 0$) in the first Brillouin zone. A simple example is a one-dimensional diatomic chain, in which the unit cell contains two atoms. In a crystal of N unit cells, there are $2N$ atoms and $2N$ degrees of freedom of motion. The displacement of an atom from its equilibrium position is expressed using plane waves with reduced wave vectors, defined within the first Brillouin zone. The oscillations are approximated by $2N$ harmonic oscillators of different wave vectors. The vibrational frequency is related to the wave vector through the phonon dispersion relation. Phonons are created and annihilated in the harmonic oscillators. SOURCE: SCIENCE DIRECT: <https://sciedirect.com/topics/engineering/acoustic-phonon>



"nodes eventually agree" stochastic harmonization temporal sync

"Similarly, the electromagnetic force will also be found to vary continuously and retain a TIME-AVERAGED value"



"LENGTH OF REAL TIME CYCLE IS ARBITRARY AS LONG AS NODES EVENTUALLY AGREE"

THESIS: All things net, net of programmable \$\$\$ are formed using: 1. Time epochs created by quartz crystal silicon chips 2) Syntax used / not used as programming instructions during epoch - temporal time cycles



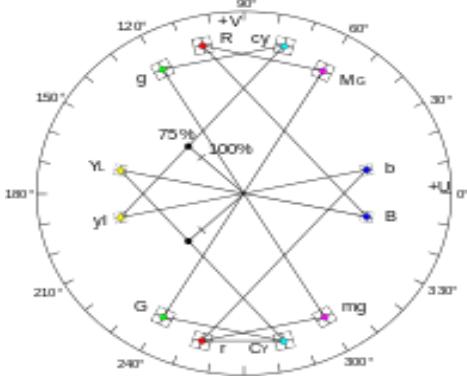
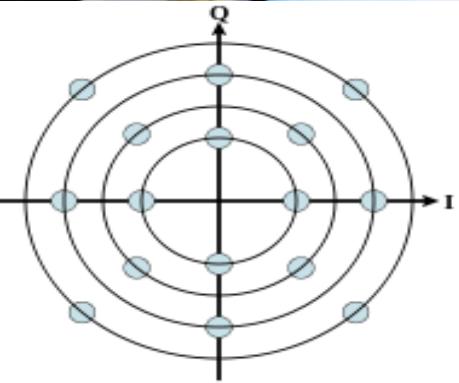
SOUND WAVES enable Different types of quantum tech to "talk"



SYNC DELTA $\Delta\delta$



www.RLighthouse.com



Quadrature amplitude modulation

QAM by setting a suitable constellation size, limited only by the noise level and linearity of the communications channel

“Similarly, the electromagnetic force will also be found to vary continuously and retain a TIME-AVERAGED value”

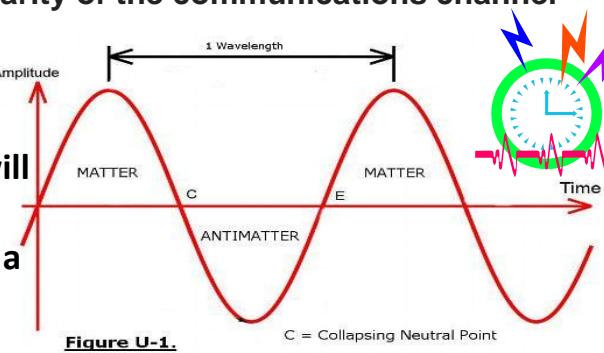
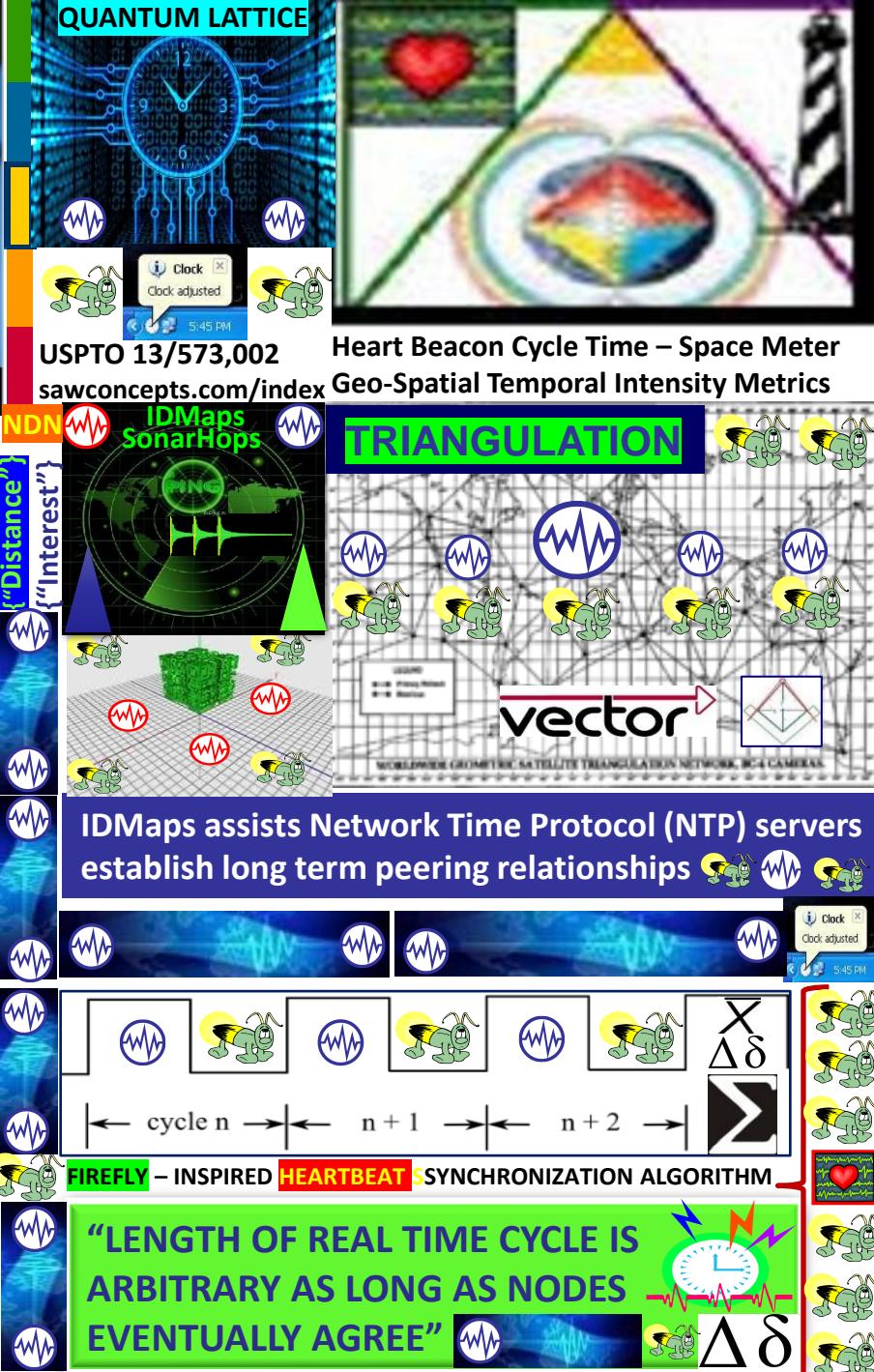


Figure U-1.

E = Expanding Neutral Point

Sine wave of our blinking universe. The 4 fundamental forces will all be found to vary continuously when sampled at 2x the blinking frequency, per Nyquist-Shannon theory



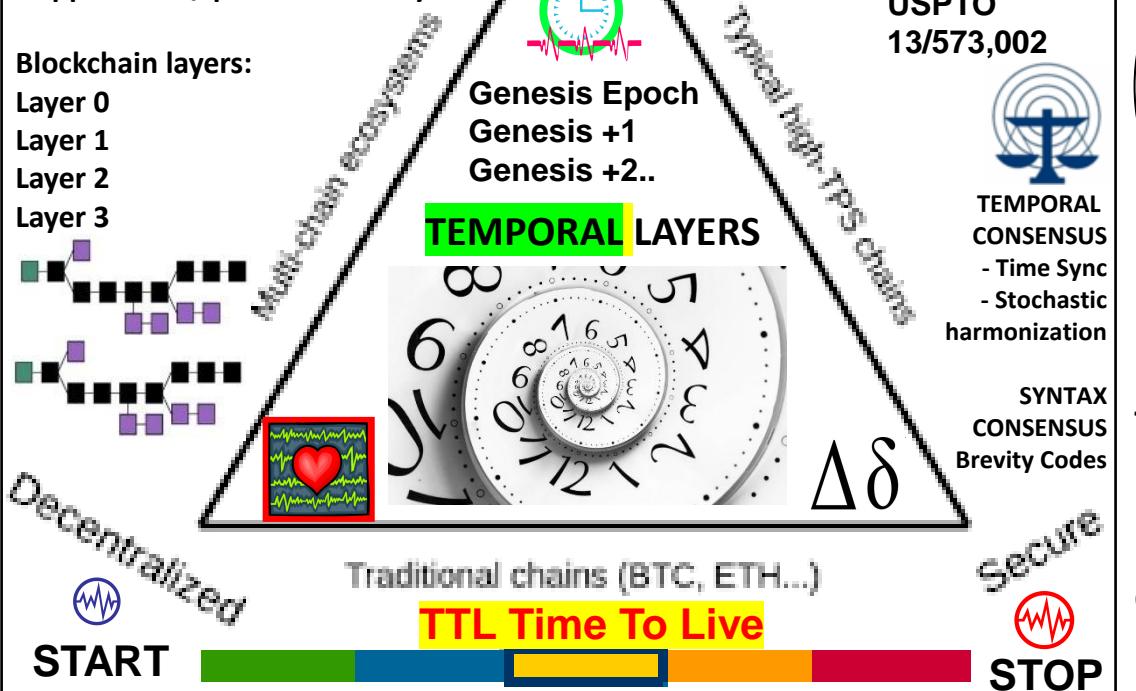
Blockchain Quad-lemma

"five layers of blockchain tech:

- Infrastructure hardware layer
- Data layer
- Network layer
- Consensus layer
- Application / presentation layers

Blockchain layers:

- Layer 0
- Layer 1
- Layer 2
- Layer 3



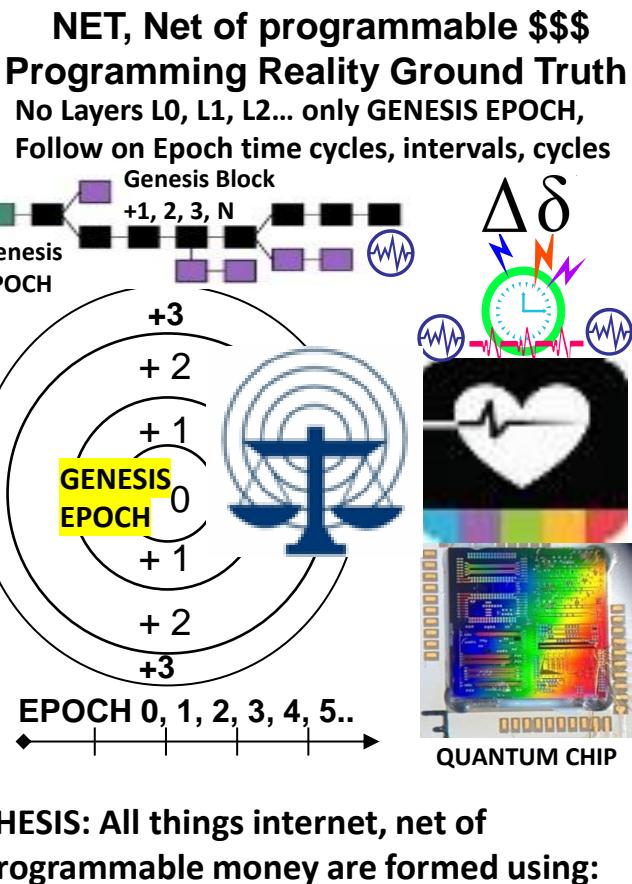
Blockchain = series of hashed blocks carrying transactional records. The first block of the blockchain is the **Genesis block**. After that, every new block added to the blockchain is linked to the Genesis block through a (temporal) iterative process.

Database Flat File

"BLOCKCHAIN" = LEDGER / Database

Database flat file sama dengan file data pada spreadsheet (misal MS Excel™), berupa satu file berisi baris-baris dengan jumlah kolom tetap yang disimpan berurutan dalam file.

NIP	Nama	Nama Depan	Telp
123-45-6789	Santoso	Heru	021-316-1234
987-65-4321	Purnama	Widya	022-543-9876
987-65-4321	Jackson	Michael	021-234-5678
567-89-0123	Iskandar	Dodi	021-987-6431



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

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

All things internet, internet of money, blockchains are formed by unicast, multicast, anycast protocols. Programmable money's improvements are in cryptography. The internet consists of unicast, multicast broadcast, anycast and workflow filters, publish – subscribe paradigms..

All things internet of money are formed w CPU time cycles used to process instructions / code sym

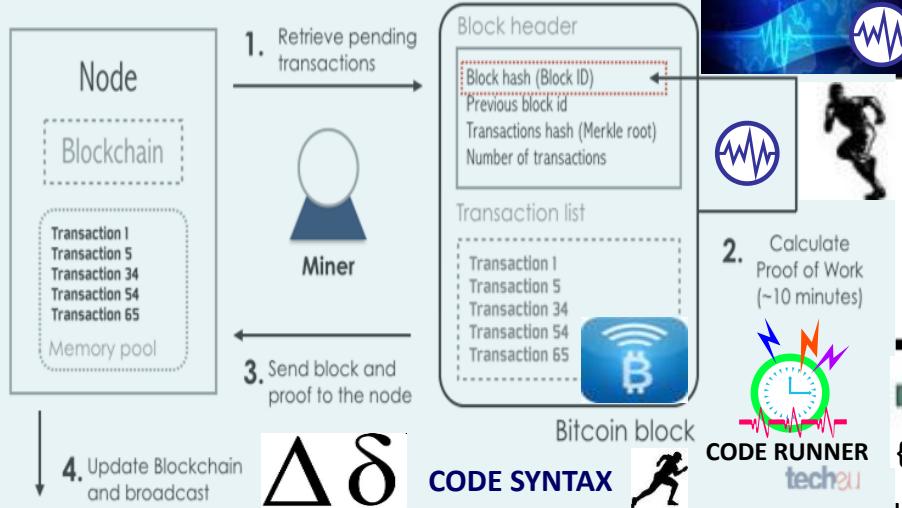


Bitcoin is a language”

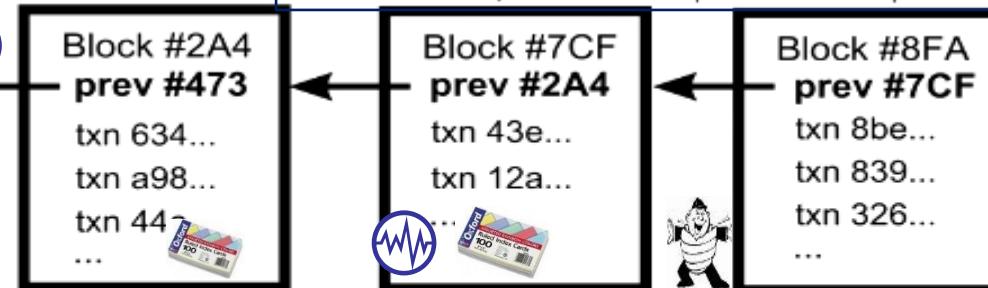
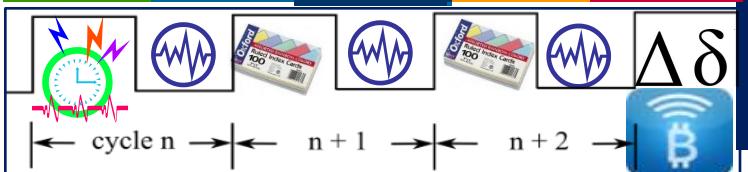
WIRED

BITCOIN MAKES USPTO 13/573,002
MONEY HEART BEACON CYCLE
PROGRAMMABLE. TIME – SPACE METER
MONEY IS STRUCTURED DATA
SIMPLY DATA” EXCHANGE

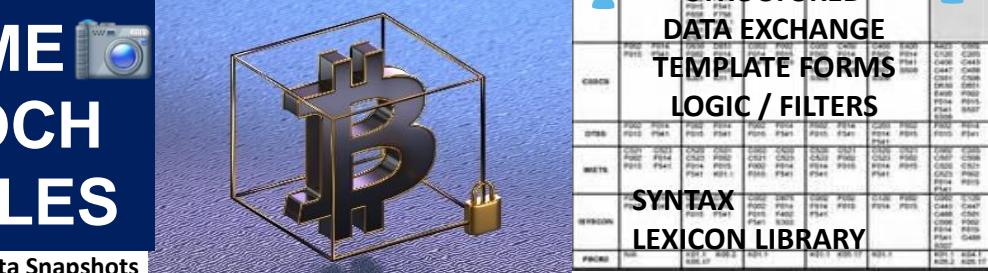
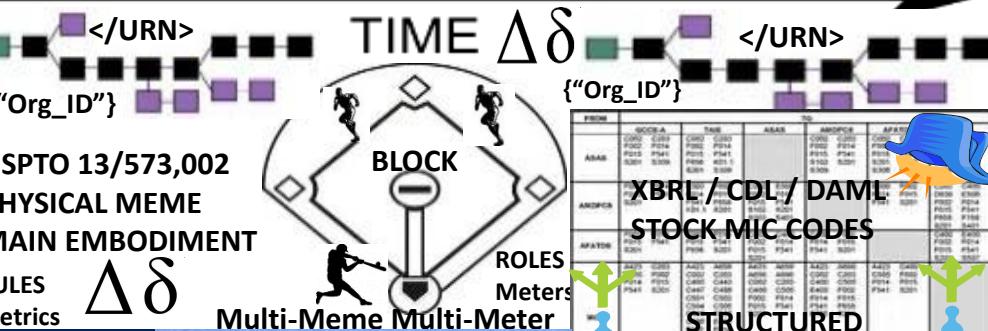
Alice Corp. v. CLS Bank International, 573 U.S. 134 SCt 2347 (2014) is a 2014 decision of the United States Supreme Court about patentable subject matter (patent eligibility). [2] The issue in the case was whether certain claims about a computer-implemented, electronic escrow service for facilitating financial transactions covered abstract ideas ineligible for patent protection. The patents were held to be invalid because the claims were drawn to an abstract idea, and implementing those claims on a computer was not enough to transform that idea into patentable subject matter.



"BITCOIN IS A LANGUAGE / BITCOIN'S VALUE IS TIME ITSELF"



BLOCKCHAIN = TIME / SYNTAX



What happens if we think about Bitcoin through the lens of *land*?

HEART BEACON CYCLE
USPTO 13/573,002
SURVEY METHODS

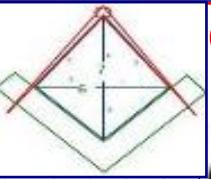
SC ALICE CORP VS CLS BANK: “claims may not direct towards abstract ideas”

UTXO: unspent transaction output’. bitcoins that have been sent somewhere but not yet themselves been spent. The set of all unspent transaction outputs (UTXOs) can be thought of as the latest STATE of every bitcoin that has ever been mined.



Memo #1421: Purchased Bitcoins are treated akin to property

Plots A, B, C represent 3 unspent transaction outputs controlling N Bitcoins



Mined Bitcoins



BLOCKS / COINS PENDING ISSUE

B
A
C

$\Delta\delta$

Unmined Bitcoins



Un-mined coins -- think of them as parcels of land on “Bitcoin Island” not yet released:

IDMaps-SONARHOPS distance estimation query-reply service

- End-state Bitcoin quantity will be fixed like land

“Bitcoin as protocol of ownership, not transfer”

Coin never travel, but simply switch owners”

Step 1: prove coin ownership <Org_ID> Coin Issuer

Step 2: coins sent where, when Lat-Long, time stamp

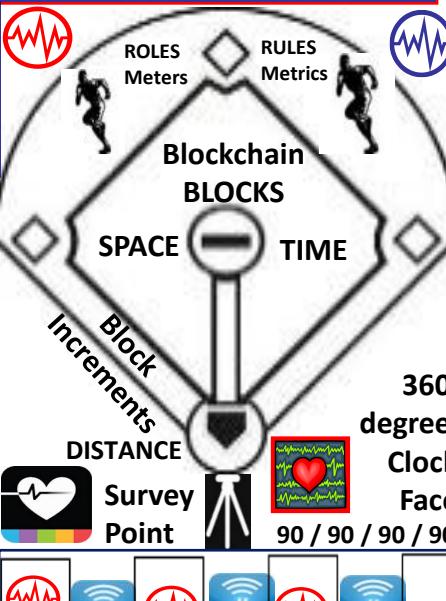
Step 3: specify ownership <Org_ID> issuing agent

Step 4: Issuing Org of Record adjudicates w buyer



$\Delta\delta$

TRIANGULATION



DISTANCE ESTIMATION

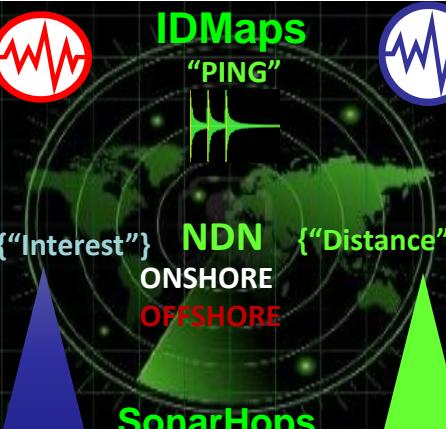
EUCLIDIAN GEOMETRY



IDMaps assists Network Time Protocol (NTP) servers establish long term peering relationships



IDMaps / SonarHops collects distance data & builds virtual Internet distance maps & estimates distance between IP address pairs

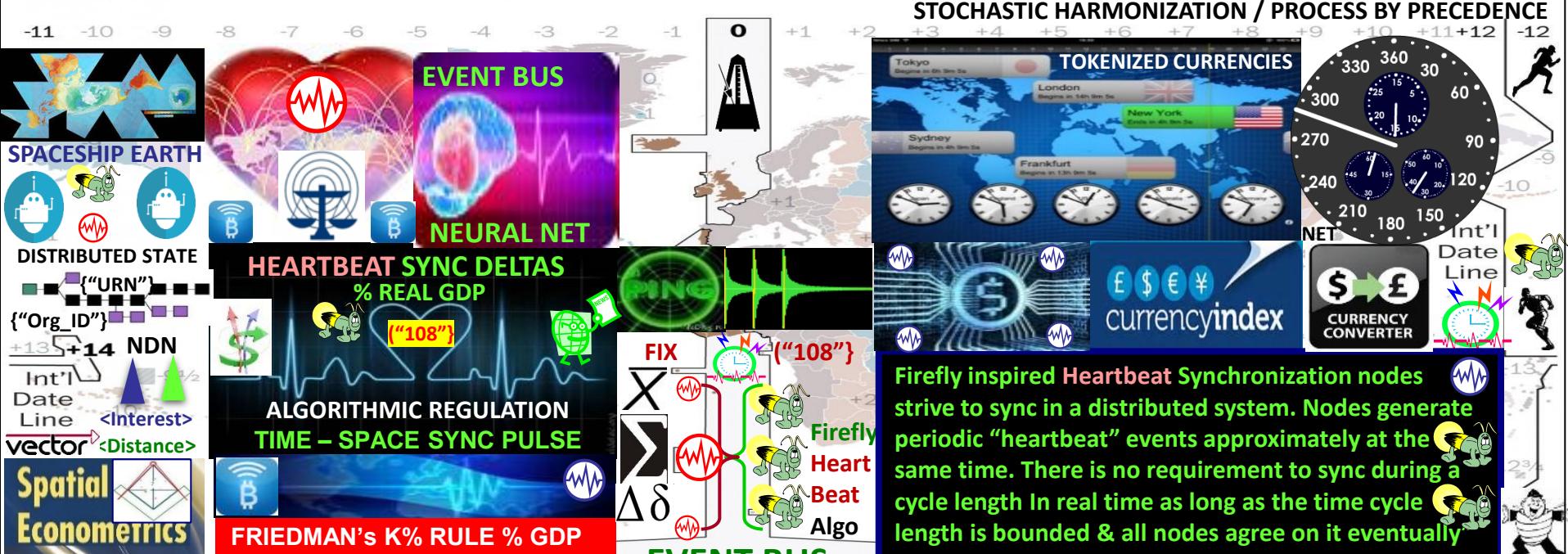


IDMaps Distance Metrics:
latency (round-trip delay)
available bandwidth estimation

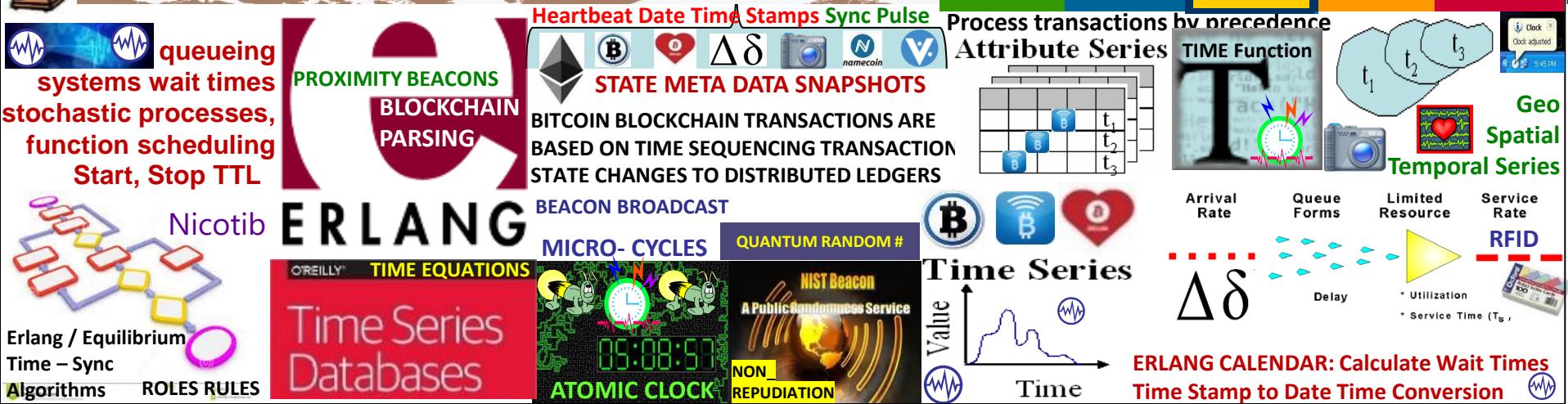




The current standard time common throughout the world is based on a 24-hour clock, with zones that are either 12 hours ahead or behind **Coordinated Universal Time (UTC)**. However, these time zones are decided upon by individual governments, without overall coordination and can even extend fourteen hours ahead UTC.



The proposed **Universal Timezone System** would do away with all these different time zones. Instead, it would be the same time all over the world, all the time.



Structured Data Exchange



SYNTAX LEXICON
ROSETTA STONE

Coder's Guide lexicon.

STRUCTURED
<CONTENT>
EXCHANGE
TEMPLATES

MIL STD 2525ABC

ASSETS

ASSET TOKENS

"SYMBOLS RULE THE WORLD"

11.8 - Kinematic
11.8.1 - Pos
11.8.1.1 -
11.8.1.2 -

STRATML

XAML

BINARY XML
UBL

DDL DATA
DEFINITION
LANGUAGE

Signal operating instructions (SOI): technical control coordination of signaling, telemetry Current situational awareness, data dictionary, network identification, channels, network directory, brevity code-words, signals. Units maintain 2 SOI copies: PEACE TIME version "Go-To-War" version = BIZ COA (s) <Org_ID1><Org_ID2><Org_ID3>



NATO MESSAGE TEMPLATES USE DATA SETS FOR STRUCTURED DATA EXCHANGE // POSITION FIELD IN MESSAGE PROCESSED BY TABLE, FIELD # IN A CONSISTENT, PREDICTABLE ORDER = AI FRIENDLY M2M AI

GOAL: vide a common lexicon / syntax / term library used among FEDERATIONS identified by Federated ID
GOAL: Provide a common, consistent, reliable schedule to share signaling and telemetry within federations.

MTL Machine Trust Language



vector

{"URN" "TRANSACTION ID"}

MESSAGE TEXT FORMAT :

SEG RPT OCC CLASSNAME SETID SEQ FIELD OCCURRENCE SET FORMAT NAME

O 11NUPRES EXER 1 /M /O // (NU) EXERCISE IDENTIFICATION

C 11NUPRES OPER 2 /M /O /O /O // (NU) OPERATION CODEWORD

M MIOPV1 1 MSGID 3 /M /M /O /O /O // (NU) MESSAGE IDENTIFIER



M MIP OUT ORDPLAN 4 /M /O /O /O // (NU) PLAN ORDER REFERENCE



SIOP POUT MSGREF 5 /M /M /M // (NU) REFERENCED MESSAGE

NUPRES DTG 6 /M // (NU) DATE-TIME GROUP

0 ORGID 7 /M /M /M /M /M /M /C // (NU) ORGANIZATION DESIGNATOR

M 11NUPRES GENTEXT 8 /M /M // (NU) 1.A ENEMY FORCES / COMPETITORS

M 11NUPRES GENTEXT 9 /M /M // (NU) 1.B FRIENDLY FORCES / TRADE FEDERATION

M 11NUPRES GENTEXT 10 /M /M // (NU) 1.C ATTACHMENT / DETACHMENT

O 11NUPRES GENTEXT 11 /M /M // (NU) 1.D COMMANDERS EVALUATION

O 11NUPRES GENTEXT 12 /M /M // (NU) 1.E ENVIRONMENTAL INFORMATION

M 11NUPRES GENTEXT 13 /M /M // (NU) 2. MISSION </108>K00.99 / FIX / SWIFT / E-911 Heartbeat Message

M 11NUPRES GENTEXT 14 /M /M // (NU) 3.A CONCEPT OF OPERATION

O 11NUPRES GENTEXT 17 /M /M // (NU) (3) RECONNAISSANCE SURVEILLANCE

O 11NUPRES GENTEXT 21 /M /M // (NU) (5) INFORMATION OPERATIONS

O 11NUPRES GENTEXT 28 /M /M // (NU) (5) COMMS INFORMATION SYSTEMS

O 11NUPRES GENTEXT 35 /M /M // (NU) 3.D COORDINATING INSTRUCTIONS

M 11NUPRES GENTEXT 36 /M /M // (NU) 4.A SUPPORT CONCEPT (Logistics)

M 11NUPRES GENTEXT 37 /M /M // (NU) 4.B MATERIEL AND SERVICES

SYMBOLS	Friend	Neutral	Hostile	DICAL EVAC & HOSPITALISATION
	Partner		Competitor	L - MILITARY OPERATIONS

TOKENIZED ECONOMY BREVITY CODE OPSCOSE MAPPET TO SYMBOLS



INDEX REFERENCE #:

M015 STATUS :

EFFECTIVE: 14-DEC-99



PURCHASE CODES



FEDERATED PEGS



{"URN" "ASSET_CLASS"}



{"URN" "ASSET_TYPES"}

ISO 10383 – MIC

Market Identifier Codes



{"URN"}



{"Org_ID"}



108



STOCK NDN NAMED DATA



EXCHANGE NETWORKING



MIC CODES PRECEDENCE



FILTERS PROCESSING



BLOCKTIME



ARBITRAGE



ERLANG



TIME



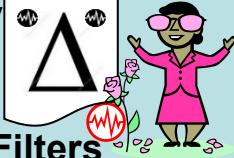
EQUATIONS



FROM	TO					CODE GUIDE				
	GCCS-A	TAIS	ASAS	AMDPCS	AFATDS	MCS				
ASAS	C002 C203 F002 F014 F015 F541 S201 S309	C002 C203	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			C002 C203 F014 F541 S201 S309 S305 S507				
AMDPCS	TOKENS OPSCODE BREVITY CODES					F002 F015 S201				
AFATDS	F002 F014 F015 F541 S201					C203 C400 D630 E500 F002 F014				
		A423 C203 C505 F002 F014 F015 F541 S201	A423 A659 C002 C203 C400 C443 C447 C488 C501 C503 C504 C505 C506 C507 C508 E400 F002 F014 F015 F541 F658 F756 G489 K01.1 S201 S303 S507	A423 A659 A656 A690 C002 C203 C400 C505 F002 F014 F015 F541 S201	 ASSET TOKENS Syntax Lexicon Token Economy Coder's Guide	A423 C505 F014 F541 S201	A.I. 	INFOCON 5 4 3 2 1 INFORMATION CONDITION		
							M2M	"SYMBOLS RULE THE WORLD" 		
MESSAGE CATALOG 300 + Use Cases				Data Elements: entity, attribute, relationship equivalents			HEARTBEAT MESSAGE = K00.99 </108> {"108"}			
Object Categories		Examples	Location	Movement	Identify	Status	Activity	Intent		
OOB		SYNTAX LEXICON	STRUCTURED DATA lat/long	spd/hdg	EXCHANGE country / alliance, type/class	Message readiness	Sets targeting, reconitering	COA {"Java JS"}		
Infrastructure		Comm, power, transportation, water/sewer	network, grid	throughput, flow rates,	name, part-of relationship	BDA, op levels	repair, broadcasts	YAML expansion plans		
Sociological		Culture, religion, economic, ethnic, government, history, languages	temples, historic structures	E-R Model	Class Diagram	Relational Database	Object DBMS	XML DTD / Schema	TADILs	MTF
Geophysical		Terrain, weather, climatology, oceanography, astrometry	feature lat/long, alt/dpth	Entity	Class	Table	Class	Element	Message	Message
				Attribute	Attribute	Field / Column	Attribute	Child Element or Element Attribute	DFI	FFIRN / FFN / FUDN
				Domain Value	PURCHASE CODES	Instance, Value		TOKENS	DUI	FUD

Information Elements Roles

- COI Determination Org Interaction
 - Search and Discovery
 - Ontologies STANDARDS
 - Taxonomies REFERENCE
 - Metadata Attributes / Filters



FFUDN: Field Format Unit Designator

FIRN Field Format Index Reference

Structured military messaging ID's messages, message sets, data element, symbol fields <108>

BY Form Field Position & NUMBER



PROCESS MESSAGE BY PRECEDENCE UNIVERSAL EVENT / ALERT MESSAGE BUS

OPERATIONAL NODES / ACTIVITIES

DATA SYSTEM FUNCTIONS PERFORMANCE

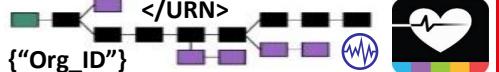
1.4 - Classification	11.8 - Kinematics
11.4.1 - Category	11.8.1 - Pos / Vel / Acc (PVA)
11.4.1.1 - Confidence Level	11.8.1.1 - Acceleration
11.4.1.2 - Estimate Type	11.8.1.1.1 - Angular
11.4.1.2.1 - Alternative	1.1.2 - Linear
11.4.1.2.2 - Evaluated D	2 - Estimate Type
11.4.1.3 - Value	1.2.1 - Estimated
	1.2.2 - Observed
	1.2.3 - Predicted
	PURCHASE CODES

SYMBOL Friend Neutral Hostile

Symbol	Friend	Neutral	Hostile
2525C	Partner		Competitor
11.4.1.3.4 - Substance			1 - Velocity
11.4.1.3.5 - Surface			1.4.1 - Horizontal
11.4.2 - Platform / Point / Feature		Type	1.4.2 - Vertical
11.4.3 - Specific Type			VA Confidence
11.4.4 - Type Modifier			1 - Bearing Angle
11.4.5 - Unit			2 - Bearing Angle Rate
			3 - Covariance Matrix



MIL STD 2525A, B, C, D



20022



STRUCTURED
DATA
EXCHANGE
SYNTAX LEXICON
ROSETTA STONE

Coder's Guide lexicon

STRUCTURED <CONTENT> EXCHANGE TEMPLATES	
MIL	STD 2525ABC
MIL	ASSET TOKENS
MIL	"SYMBOLS RULE THE WORLD"
MIL	11.8 - Kinematics 11.8.1 - Pos. 11.8.1.1 - 11.8.1.2 - Vertical 11.8.1.3 - Horizontal 11.8.1.4 - Vertical 11.8.1.5 - Bearing Angle 11.8.1.6 - Covariance Matrix

STRATML

xBRL XAML

Inform BINARY XML

• COI D
• Search
• Ontology
• Taxonomy
• Metadata

UBL DDL DATA
TOSCA

A.I. DEFINITION
LANGUAGE

FFUDN: FRIENDLY FIRE FILTER

SYMBOLS Friend Neutral Hostile

OPSCODE Partner

BREVITY COMPETITOR

CODES

MCS

TOKENS

OPSCODE

BREVITY

CODES

AMDPICS

ASATDS

AFATDS

INFOCON

4 3 2 1

INFORMATION CONDITION

108

NDN

Firefly-Heartbeat

Flash Messages

PROCESS MESSAGE BY PRECEDENCE

UNIVERSAL EVENT / ALERT MESSAGE BUS

OPERATIONAL NODES / ACTIVITIES

DATA SYSTEM FUNCTIONS PERFORMANCE

11.4 - Classification

11.4.1 - Category

11.4.1.1 - Confidence Level

11.4.1.1.1 - Angular

11.4.1.1.2 - Linear

11.4.1.2 - Alternative

11.4.1.2.1 - Estimated

11.4.1.2.2 - Observed

11.4.1.3 - Value

PURCHASE CODES

SYMBOL

Friend

Neutral

Hostile

Competitor

2525C

Partner

Competitor

11.4.1.3.5 - Surface

11.4.2 - Platform / Point / Feature Type

11.4.3 - Specific Type

11.4.4 - Type Modifier

11.4.5 - Unit

1. Velocity

1.4.1 - Horizontal

1.4.2 - Vertical

V/A Confidence

1. Bearing Angle

2. Bearing Angle Rate

3. Covariance Matrix

STRUCTURED
DATA
EXCHANGE
SYNTAX LEXICON
ROSETTA STONE

Coder's Guide lexicon

STRUCTURED
<CONTENT>
EXCHANGE
TEMPLATES

MIL

STD 2525ABC

ASSET TOKENS

"SYMBOLS RULE THE WORLD"

11.8 - Kinematics

11.8.1 - Pos.

11.8.1.1 - Vel / Acc (PVA)

11.8.1.1.1 - Acceleration

11.8.1.1.2 - Angular

11.8.1.2 - Linear

1. Estimate Type

1.2.1 - Estimated

1.2.2 - Observed

1.2.3 - Predicted

1.2.4 - Smoothed Data

11.8.1.3 - Vertical

11.8.1.4 - Horizontal

11.8.1.5 - Bearing Angle

11.8.1.6 - Covariance Matrix

11.8.1.7 - Position

11.8.1.8 - Orientation

11.8.1.9 - Velocity

11.8.1.10 - Acceleration

11.8.1.11 - Angular Velocity

11.8.1.12 - Angular Acceleration

11.8.1.13 - Position

11.8.1.14 - Orientation

11.8.1.15 - Velocity

11.8.1.16 - Acceleration

11.8.1.17 - Angular Velocity

11.8.1.18 - Angular Acceleration

11.8.1.19 - Position

11.8.1.20 - Orientation

11.8.1.21 - Velocity

11.8.1.22 - Acceleration

11.8.1.23 - Angular Velocity

11.8.1.24 - Angular Acceleration

11.8.1.25 - Position

11.8.1.26 - Orientation

11.8.1.27 - Velocity

11.8.1.28 - Acceleration

11.8.1.29 - Angular Velocity

11.8.1.30 - Angular Acceleration

11.8.1.31 - Position

11.8.1.32 - Orientation

11.8.1.33 - Velocity

11.8.1.34 - Acceleration

11.8.1.35 - Angular Velocity

11.8.1.36 - Angular Acceleration

11.8.1.37 - Position

11.8.1.38 - Orientation

11.8.1.39 - Velocity

11.8.1.40 - Acceleration

11.8.1.41 - Angular Velocity

11.8.1.42 - Angular Acceleration

11.8.1.43 - Position

11.8.1.44 - Orientation

11.8.1.45 - Velocity

11.8.1.46 - Acceleration

11.8.1.47 - Angular Velocity

11.8.1.48 - Angular Acceleration

11.8.1.49 - Position

11.8.1.50 - Orientation

11.8.1.51 - Velocity

11.8.1.52 - Acceleration

11.8.1.53 - Angular Velocity

11.8.1.54 - Angular Acceleration

11.8.1.55 - Position

11.8.1.56 - Orientation

11.8.1.57 - Velocity

11.8.1.58 - Acceleration

11.8.1.59 - Angular Velocity

11.8.1.60 - Angular Acceleration

11.8.1.61 - Position

11.8.1.62 - Orientation

11.8.1.63 - Velocity

11.8.1.64 - Acceleration

11.8.1.65 - Angular Velocity

11.8.1.66 - Angular Acceleration

11.8.1.67 - Position

11.8.1.68 - Orientation

11.8.1.69 - Velocity

11.8.1.70 - Acceleration

11.8.1.71 - Angular Velocity

11.8.1.72 - Angular Acceleration

11.8.1.73 - Position

11.8.1.74 - Orientation

11.8.1.75 - Velocity

11.8.1.76 - Acceleration

11.8.1.77 - Angular Velocity

11.8.1.78 - Angular Acceleration

11.8.1.79 - Position

11.8.1.80 - Orientation

11.8.1.81 - Velocity

11.8.1.82 - Acceleration

11.8.1.83 - Angular Velocity

11.8.1.84 - Angular Acceleration

11.8.1.85 - Position

11.8.1.86 - Orientation

11.8.1.87 - Velocity

11.8.1.88 - Acceleration

11.8.1.89 - Angular Velocity

11.8.1.90 - Angular Acceleration

11.8.1.91 - Position

11.8.1.92 - Orientation

11.8.1.93 - Velocity

11.8.1.94 - Acceleration

11.8.1.95 - Angular Velocity

11.8.1.96 - Angular Acceleration

11.8.1.97 - Position

11.8.1.98 - Orientation

11.8.1.99 - Velocity

11.8.1.100 - Acceleration

11.8.1.101 - Angular Velocity

11.8.1.102 - Angular Acceleration

11.8.1.103 - Position

11.8.1.104 - Orientation

11.8.1.105 - Velocity

11.8.1.106 - Acceleration

11.8.1.107 - Angular Velocity

11.8.1.108 - Angular Acceleration

11.8.1.109 - Position

11.8.1.110 - Orientation

11.8.1.111 - Velocity

11.8.1.112 - Acceleration

11.8.1.113 - Angular Velocity

11.8.1.114 - Angular Acceleration

11.8.1.115 - Position

11.8.1.116 - Orientation

11.8.1.117 - Velocity

11.8.1.118 - Acceleration

11.8.1.119 - Angular Velocity

11.8.1.120 - Angular Acceleration

11.8.1.121 - Position

11.8.1.122 - Orientation

11.8.1.123 - Velocity

11.8.1.124 - Acceleration

11.8.1.125 - Angular Velocity

11.8.1.126 - Angular Acceleration

11.8.1.127 - Position

11.8.1.128 - Orientation

11.8.1.129 - Velocity

11.8.1.130 - Acceleration

11.8.1.131 - Angular Velocity

11.8.1.132 - Angular Acceleration

11.8.1.133 - Position

11.8.1.134 - Orientation

11.8.1.135 - Velocity

11.8.1.136 - Acceleration

11.8.1.137 - Angular Velocity

11.8.1.138 - Angular Acceleration

11.8.1.139 - Position

11.8.1.140 - Orientation

11.8.1.141 - Velocity

11.8.1.142 - Acceleration

11.8.1.143 - Angular Velocity

11.8.1.144 - Angular Acceleration

11.8.1.145 - Position

11.8.1.146 - Orientation

11.8.1.147 - Velocity

11.8.1.148 - Acceleration

11.8.1.149 - Angular Velocity

11.8.1.150 - Angular Acceleration

11.8.1.151 - Position

11.8.1.152 - Orientation

11.8.1.153 - Velocity

11.8.1.154 - Acceleration

11.8.1.155 - Angular Velocity

11.8.1.156 - Angular Acceleration

11.8.1.157 - Position

11.8.1.158 - Orientation

11.8.1.159 - Velocity

11.8.1.160 - Acceleration

11.8.1.161 - Angular Velocity

11.8.1.162 - Angular Acceleration

11.8.1.163 - Position

11.8.1.164 - Orientation

11.8.1.165 - Velocity

11.8.1.166 - Acceleration

11.8.1.167 - Angular Velocity

11.8.1.168 - Angular Acceleration

11.8.1.169 - Position

11.8.1.170 - Orientation

11.8.1.171 - Velocity

</div

Symbolic artificial intelligence: collection of all methods in artificial intelligence

research that are based on high-level symbolic (human-readable) representations of problems, logic and search.[1] Symbolic AI used tools such as logic programming, production rules, semantic nets and frames, and it developed applications such as knowledge-based systems (in particular, expert systems), symbolic mathematics, automated theorem provers, ontologies, the semantic web, and automated planning and scheduling systems. The Symbolic AI paradigm led to seminal ideas in search, symbolic programming languages, agents, multi-agent systems, the semantic web, the strengths, imitations of formal knowledge and reasoning systems.

Physical symbol system (also called a formal system) takes physical patterns (symbols), combining them into structures (expressions) and manipulating them (using processes) to produce new expressions. The physical symbol system hypothesis (PSSH) is a position in the philosophy of artificial intelligence formulated by Allen Newell and Herbert A. Simon. They wrote: "A physical symbol system has the necessary and sufficient means for general intelligent action." [2] —Allen Newell and Herbert A. Simon

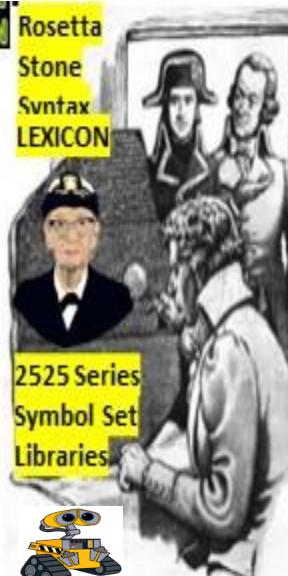
This claim implies both that human thinking is a kind of symbol manipulation (because a symbol system is necessary for intelligence) and that machines can be intelligent (because a symbol system is sufficient for intelligence).[3] The idea has philosophical roots in Hobbes (who claimed reasoning was "nothing more than reckoning"), Leibniz (who attempted to create a logical calculus of all human ideas), Hume (who thought perception could be reduced to "atomic impressions") and even Kant (who analyzed all experience as controlled by formal rules).[1] The latest version is called the computational theory of mind, associated with philosophers Hilary Putnam and Jerry Fodor.[4]

Source: Wikipedia: https://en.wikipedia.org/wiki/Physical_symbol_system

data from a first form to a second form

CONDITION

Rosetta
Stone
Syntax
LEXICON



Symbolic artificial intelligence: collection of all methods in artificial intelligence research that are based on high-level symbolic (human-readable) representations of problems, logic and search.



"SIGNS AND SYMBOLS RULE THE WORLD, NOT RULES OR LAWS"
NATO OTAN



Confucius

Alpha-numeric OPS CODE

Brevity codes mapped to symbols,
Symbol sets = structured data

FRZ TLP CLOUD FRS TUN PAREN

ABCA OPS CODE BREVITY CODES

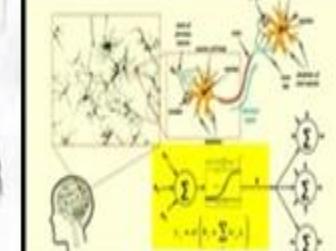
Neuro-Symbolic AI

Symbolic (human-readable)
representations

Symbolic AI

Neural Networks
(Deep Learning)

Brevity
Codes

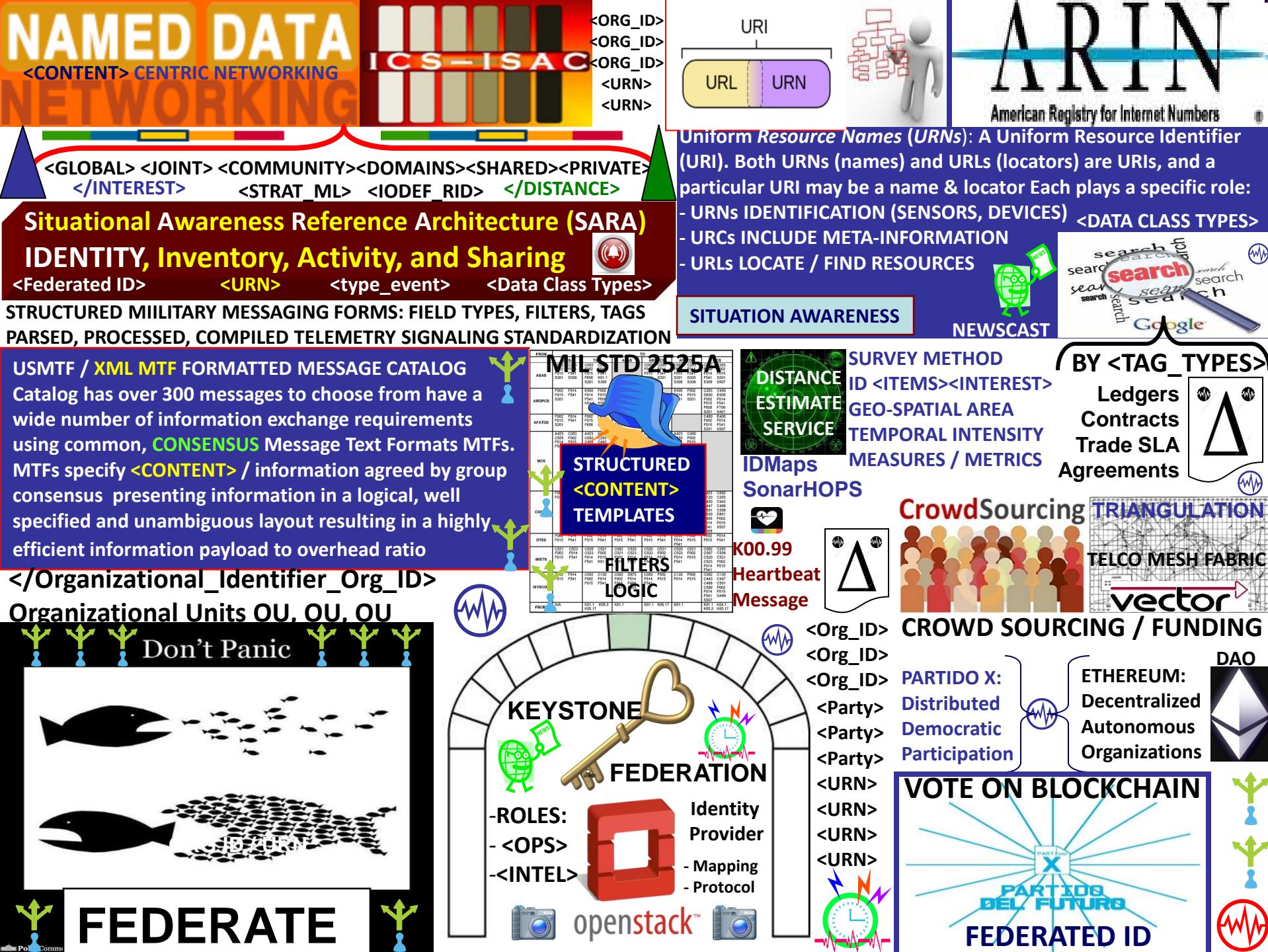


Symbols

Symbol

Incorporate common sense reasoning and

Breaking the world into symbols (rather than sets 2525)



Situational Awareness Reference Architecture (SARA)

Identity, Inventory, Activity, and Sharing

<http://ics-isac.org/sara/>



Industrial Control System
Information Sharing and
Analysis Center

IDENTITY: <UUID> = Devices, sensors

<ORG_ID> Organizations

Federation
Gateway

INVENTORY: Uniform Resource Name <URN>

<URN><URN>
<URN><URN>
<URN><URN>



vector

<COMMODITY><WATER><ENERGY><AVAILABLE UNITS>

GEO-SPATIAL TEMPORAL INTENSITY METRICS

UNIFIED EVENT / ALERT TRIGGER / THRESHOLDS

ACTIVITY: <EVENT><ALERT> <TIME_STAMP><ORG_ID><URN>

CONTENT LEXICON
ROSETTA STONE



AVALANCHE

WELCOME TO THE FS-ISAC SECURITY AUTOMATION GROUP. OUR VISION IS
A FEDERATED NETWORK OF STIX-BASED REPOSITORIES SHARING INTELLIGENCE IN
REAL-TIME. AVALANCHE: STRENGTH IN NUMBERS, SECURELY SHARE INTELLIGENCE

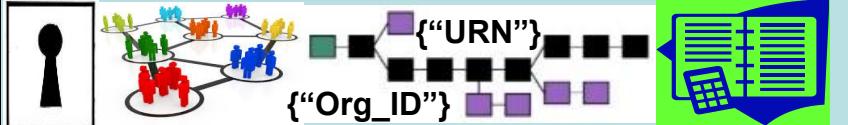
NIST CYBER SECURITY FRAMEWORK

CYBER SECURITY CONTENT
LEXICON ROSETTA STONE

FROM	TO	MCS
OCB01	TAB1	AMOPCS
P0102	F0104	AFAT05
AS001	F0104	E400
AS001	F0104	F0002
AMOPCS	F0104	F0003
P0103	F0104	F0004
AS001	F0104	F0005
AS001	F0104	F0006
AMOPCS	F0104	F0007
P0105	F0104	F0008
AS001	F0104	F0009
AS001	F0104	F0010
AMOPCS	F0104	F0011
P0106	F0104	F0012
AS001	F0104	F0013
AS001	F0104	F0014
AMOPCS	F0104	F0015
P0107	F0104	F0016
AS001	F0104	F0017
AS001	F0104	F0018
AMOPCS	F0104	F0019
P0108	F0104	F0020
AS001	F0104	F0021
AS001	F0104	F0022
AMOPCS	F0104	F0023
P0109	F0104	F0024
AS001	F0104	F0025
AS001	F0104	F0026
AMOPCS	F0104	F0027
P0110	F0104	F0028
AS001	F0104	F0029
AS001	F0104	F0030
AMOPCS	F0104	F0031
P0111	F0104	F0032
AS001	F0104	F0033
AS001	F0104	F0034
AMOPCS	F0104	F0035
P0112	F0104	F0036
AS001	F0104	F0037
AS001	F0104	F0038
AMOPCS	F0104	F0039
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AMOPCS	F0104	F0043
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AMOPCS	F0104	F0047
P0115	F0104	F0048
AS001	F0104	F0049
AS001	F0104	F0050
AMOPCS	F0104	F0051
P0116	F0104	F0052
AS001	F0104	F0053
AS001	F0104	F0054
AMOPCS	F0104	F0055
P0117	F0104	F0056
AS001	F0104	F0057
AS001	F0104	F0058
AMOPCS	F0104	F0059
P0118	F0104	F0060
AS001	F0104	F0061
AS001	F0104	F0062
AMOPCS	F0104	F0063
P0119	F0104	F0064
AS001	F0104	F0065
AS001	F0104	F0066
AMOPCS	F0104	F0067
P0120	F0104	F0068
AS001	F0104	F0069
AS001	F0104	F0070
AMOPCS	F0104	F0071
P0121	F0104	F0072
AS001	F0104	F0073
AS001	F0104	F0074
AMOPCS	F0104	F0075
P0122	F0104	F0076
AS001	F0104	F0077
AS001	F0104	F0078
AMOPCS	F0104	F0079
P0123	F0104	F0080
AS001	F0104	F0081
AS001	F0104	F0082
AMOPCS	F0104	F0083
P0124	F0104	F0084
AS001	F0104	F0085
AS001	F0104	F0086
AMOPCS	F0104	F0087
P0125	F0104	F0088
AS001	F0104	F0089
AS001	F0104	F0090
AMOPCS	F0104	F0091
P0126	F0104	F0092
AS001	F0104	F0093
AS001	F0104	F0094
AMOPCS	F0104	F0095
P0127	F0104	F0096
AS001	F0104	F0097
AS001	F0104	F0098
AMOPCS	F0104	F0099
P0128	F0104	F0100
AS001	F0104	F0101
AS001	F0104	F0102
AMOPCS	F0104	F0103
P0129	F0104	F0104
AS001	F0104	F0105
AS001	F0104	F0106
AMOPCS	F0104	F0107
P0130	F0104	F0108
AS001	F0104	F0109
AS001	F0104	F0110
AMOPCS	F0104	F0111
P0131	F0104	F0112
AS001	F0104	F0113
AS001	F0104	F0114
AMOPCS	F0104	F0115
P0132	F0104	F0116
AS001	F0104	F0117
AS001	F0104	F0118
AMOPCS	F0104	F0119
P0133	F0104	F0120
AS001	F0104	F0121
AS001	F0104	F0122
AMOPCS	F0104	F0123
P0134	F0104	F0124
AS001	F0104	F0125
AS001	F0104	F0126
AMOPCS	F0104	F0127
P0135	F0104	F0128
AS001	F0104	F0129
AS001	F0104	F0130
AMOPCS	F0104	F0131
P0136	F0104	F0132
AS001	F0104	F0133
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AMOPCS	F0104	F0135
P0137	F0104	F0136
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AS001	F0104	F0138
AMOPCS	F0104	F0139
P0138	F0104	F0140
AS001	F0104	F0141
AS001	F0104	F0142
AMOPCS	F0104	F0143
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AS001	F0104	F0150
AMOPCS	F0104	F0151
P0141	F0104	F0152
AS001	F0104	F0153
AS001	F0104	F0154
AMOPCS	F0104	F0155
P0142	F0104	F0156
AS001	F0104	F0157
AS001	F0104	F0158
AMOPCS	F0104	F0159
P0143	F0104	F0160
AS001	F0104	F0161
AS001	F0104	F0162
AMOPCS	F0104	F0163
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AS001	F0104	F0165
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AMOPCS	F0104	F0167
P0145	F0104	F0168
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AMOPCS	F0104	F0171
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AMOPCS	F0104	F0179
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AS001	F0104	F0182
AMOPCS	F0104	F0183
P0149	F0104	F0184
AS001	F0104	F0185
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AMOPCS	F0104	F0187
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AMOPCS	F0104	F0195
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AS001	F0104	F0198
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P0153	F0104	F0200
AS001	F0104	F0201
AS001	F0104	F0202
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AS001	F0104	F0205
AS001	F0104	F0206
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AS001	F0104	F0210
AMOPCS	F0104	F0211
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AS001	F0104	F0213
AS001	F0104	F0214
AMOPCS	F0104	F0215
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AS001	F0104	F0237
AS001	F0104	F0238
AMOPCS	F0104	F0239
P0163	F0104	F0240
AS001	F0104	F0241
AS001	F0104	F0242
AMOPCS	F0104	F0243
P0164	F0104	F0244
AS001	F0104	F0245
AS001	F0104	F0246
AMOPCS	F0104	F0247
P0165	F0104	F0248
AS001	F0104	F0249
AS001	F0104	F0250
AMOPCS	F0104	F0251
P0166	F0104	F0252
AS001	F0104	F0253
AS001	F0104	F0254
AMOPCS	F0104	F0255
P0167	F0104	F0256
AS001	F0104	F0257
AS001	F0104	F0258
AMOPCS	F0104	F0259
P0168	F0104	F0260
AS001	F0104	F0261
AS001	F0104	F0262
AMOPCS	F0104	F0263
P0169	F0104	F0264
AS001	F0104	F0265
AS001	F0104	F0266
AMOPCS	F0104	F0267
P0170	F0104	F0268
AS001	F0104	F0269
AS001	F0104	F0270
AMOPCS	F0104	F0271
P0171	F0104	F0272
AS001	F0104	F0273
AS001	F0104	F0274
AMOPCS	F0104	F0275
P0172	F0104	F0276
AS001	F0104	F0277
AS001	F0104	F0278
AMOPCS	F0104	F0279
P0173	F0104	F0280
AS001	F0104	F0281
AS001	F0104	F0282
AMOPCS	F0104	F0283
P0174	F0104	F0284
AS001	F0104	F0285
AS001	F0104	F0286
AMOPCS	F0104	F0287
P0175	F0104	F0288
AS001	F0104	F0289
AS001	F0104	F0290
AMOPCS	F0104	F0291
P0176	F0104	F0292
AS001	F0104	F0293
AS001	F0104	F0294
AMOPCS	F0104	F0295
P0177	F0104	F0296
AS001	F0104	F0297
AS001	F0104	F0298
AMOPCS	F0104	F0299
P0178	F0104	F0300
AS001	F0104	F0301
AS001	F0104	F0302
AMOPCS	F0104	F0303
P0179	F0104	F0304
AS001	F0104	F0305
AS001	F0104	F0306
AMOPCS	F0104	F0307
P0180	F0104	F0308
AS001	F0104	F0309
AS001	F0104	F0310
AMOPCS	F0104	F0311
P0181	F0104	F0312
AS001	F0104	F0313
AS001	F0104	F0314
AMOPCS	F0104	F0315
P0182	F0104	F0316
AS001	F0104	F0317
AS001	F0104	F0318
AMOPCS	F0104	F0319
P0183	F0104	F0320
AS001	F0104	F0321
AS001	F0104	F0322
AMOPCS	F0104	F0323
P0184	F0104	F0324
AS001	F0104	F0325
AS001	F0104	F0326
AMOPCS	F0104	F0327
P0185	F0104	F0328
AS001	F0104	F0329
AS001	F0104	F0330
AMOPCS	F0104	F0331
P0186	F0104	F0332
AS001	F0104	F0333
AS001	F0104	F0334
AMOPCS	F0104	F0335
P0187	F0104	F0336
AS001	F0104	F0337
AS001	F0104	F0338
AMOPCS	F0104	F0339
P0188	F0104	F0340
AS001	F0104	F0341
AS001	F0104	F0342
AMOPCS	F0104	F0343
P0189	F0104	F0344
AS001	F0104	F0345
AS001	F0104	F0346
AMOPCS	F0104	F0347
P0190	F0104	F0348
AS001	F0104	F0349</

Heart Beacon Cycle

FEDERATE / TRADE FEDERATIONS



ECONOMIC HEARTBEAT



K %



DAO

BITNATION

FEDERATE
SHARE
WIN

1. **FEDERATION:** Latin: **foedus, foederis, covenant, union** of partially self-governing states or regions under a central (federal) government
2. A league or confederacy. Individuals / groups retain **AUTONOMY**
3. A federated body formed by nations, states, and... **unions**
each retaining control of internal affairs

Net joins, drops, splits, merges, moves

Agile, adhoc NETOPS Vs acquisition preserves the **CHANNEL**Federation
Gateway

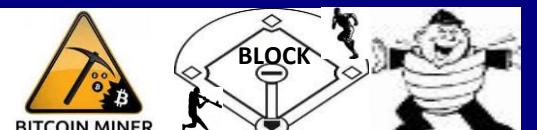
{“GLOBAL”}
 {“SHARED”}
 {“DOMAIN”}
 {“COMMUNITY”}
 {“PRIVATE”}

{“GROUP ID”}



Bitcoin **Group Signatures** Dynamic Membership Multi-party Signature DMMS:
 independent interest within group signatures – **FEDERATED ID** {“Org_ID”}

Bitcoin Mining Pools
MEME / METAPHOR MEDIATION



DISTRIBUTED AUTONOMOUS ORGANIZATION = DAO RAND Corp

term coined circa 1991 now in use by Blockchain tech corporations

Uniform_Resource_Name



FIREFLY FLASH HEARTBEAT MESSAGES

</RESOURCE> {“URN”}
 {“Asset_Class”} </URN>

IeT DEVICE / PLATFORM
 IoT SENSOR DEVICE



STOCK EXCHANGE

MIC MARKET IDENTIFIER

CODES / BREVITY CODES



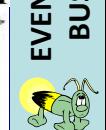
Office 365 Groups

Microsoft Teams

{“DUNS #”}{“Org_ID”} Heartbeat Snaps

QR CODE

{“URN”}{“URN”}{“URN”} MICRO-CYCLES

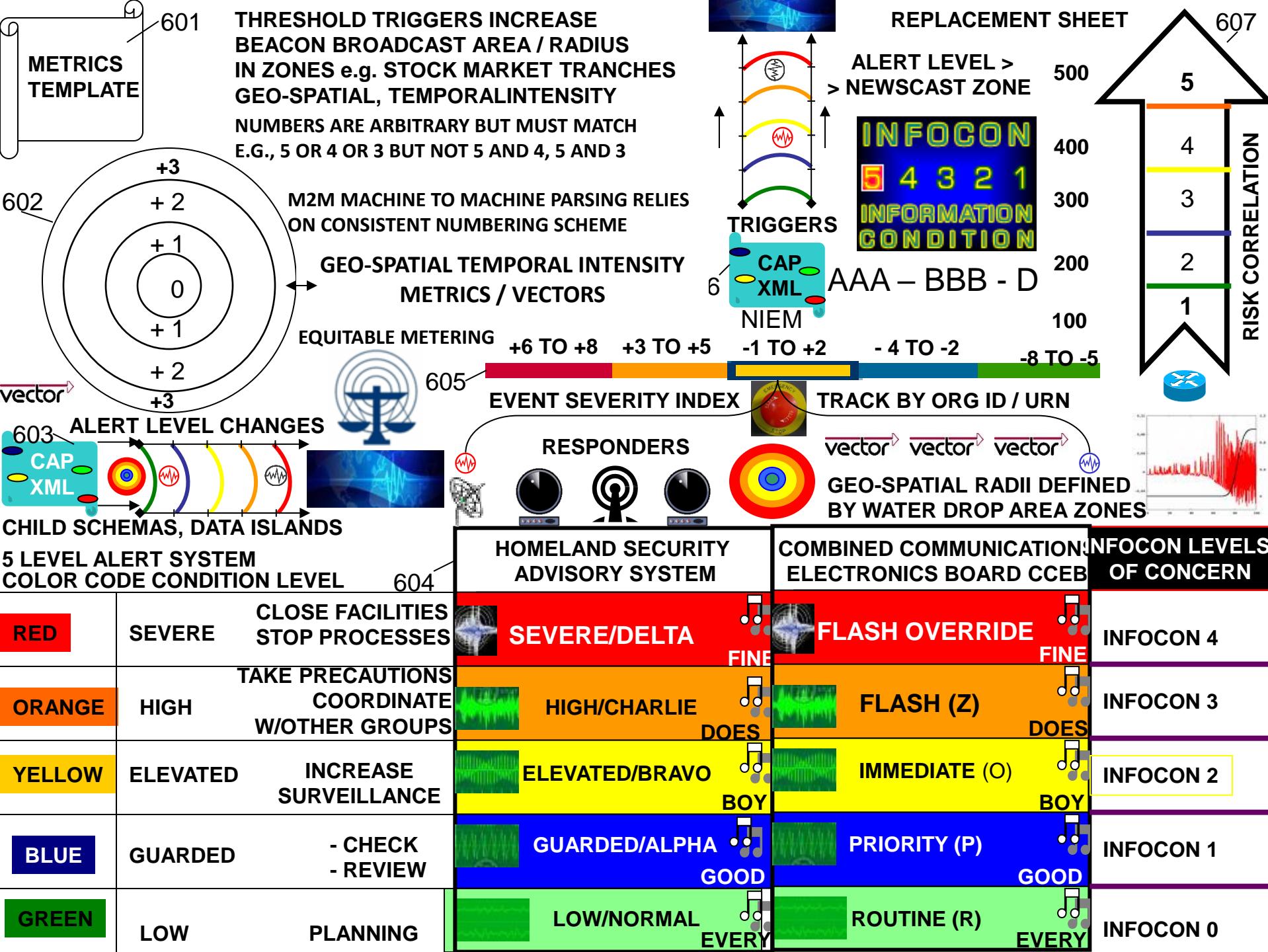


EVENT BUS
 Signalining, Telemetry



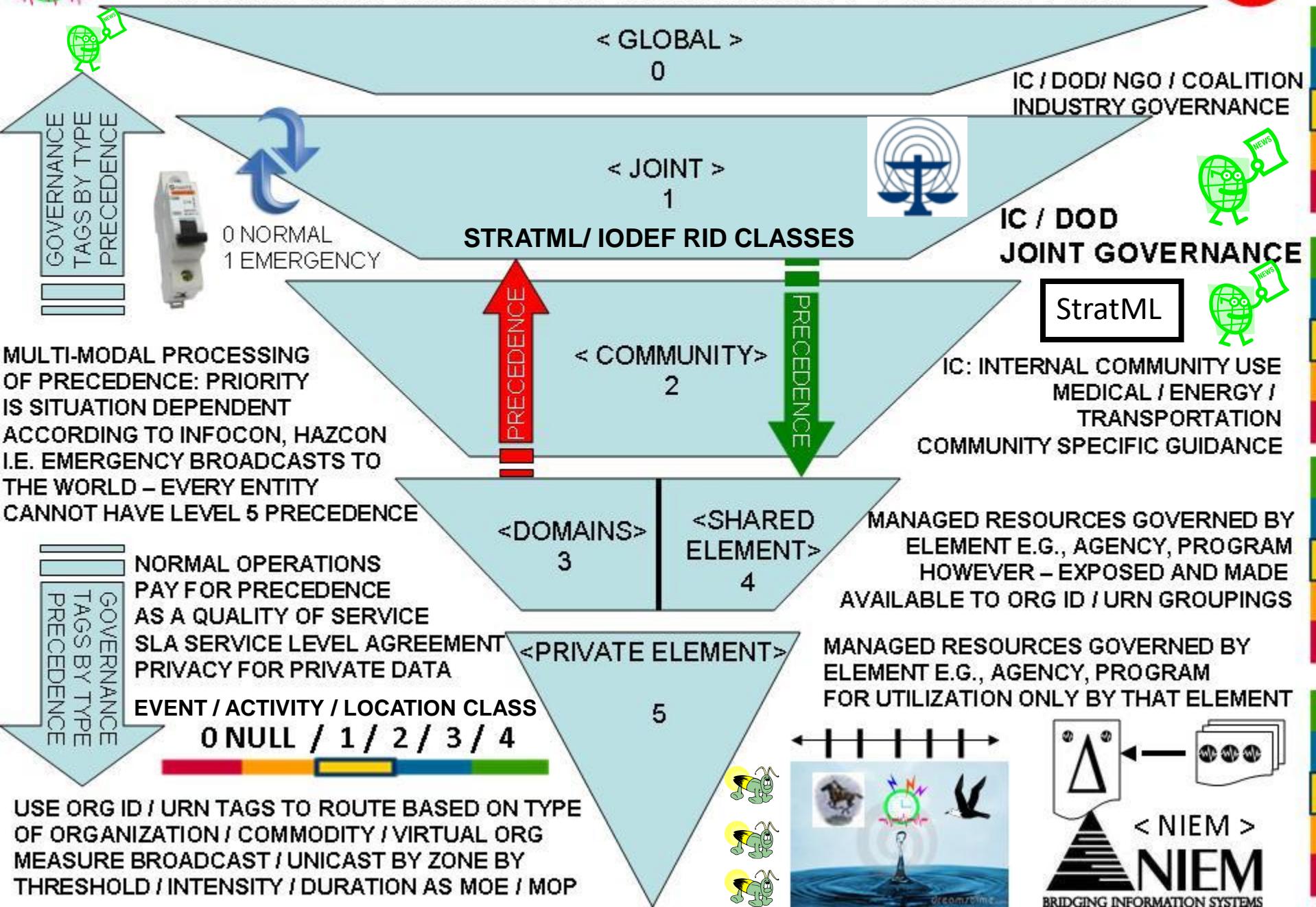
FEDERATE: COMMON GOALS SYNCHRONIZED IN SPACE - TIME







ENABLE MAPPING OF GOVERNANCE / MANAGEMENT RESOURCES BY PRECEDENCE SHOWN IN GEO-SPATIO INTENSITY DASHBOARD VIEWS





The current standard time common throughout the world is based on a 24-hour clock, with zones that are either 12 hours ahead or behind **Coordinated Universal Time (UTC)**. However, these time zones are decided upon by individual governments, without overall coordination and can even extend fourteen hours ahead UTC. **UTZ TIME ZONE STOCHASTIC HARMONIZATION**



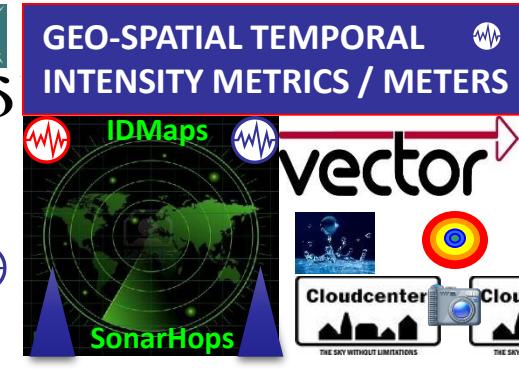
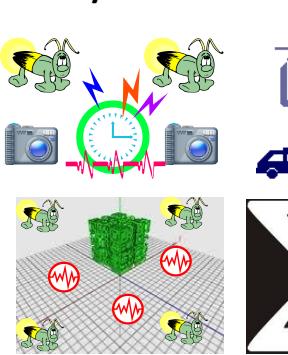
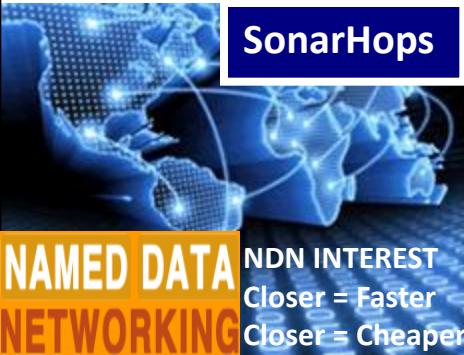
The proposed **Universal Timezone System** would do away with all these different time zones. Instead, it would be the same time all over the world, all the time.



IDMaps: Global Internet Host Distance Estimation Service



NDN: CONTENT ROUTING / <StratML> NDN INTEREST = Time / Distance



vector



IDMaps scalable Internet-wide architecture measures, disseminates distance information



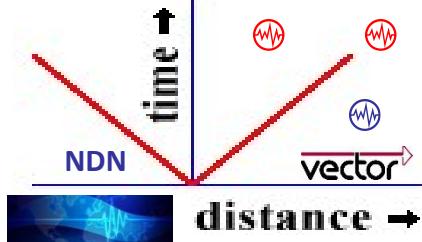
HOP COUNTS



REACHABILITY



/localhost/nfd/fib/add-nexthop



Higher-level services collect distance information to build a virtual distance map of Internet & estimates distance between any IP address pair



IDMaps provides distance information used by SONAR/HOPS query/reply service

Name Prefix
<Org_ID> Trie (NPT)



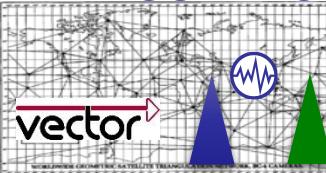
NDN NAMES

NDN NAMED DATA NETWORK RIB / FIB Datasets event notification

Distance information adjusts to “permanent” topology changes e.g., splits, joins, adds, moves, drops, merges in lieu of formal merger / acquisition



TRIANGULATION



NDN INTEREST LENGTH = DISTANCE BY HOPS

NDN INTEREST

IS DATA FRESH ?

Time Series



Datasets and Event Notification

NDN STRATEGY CHOICE MANAGER – RIB Routing Information Base add-nexthop

IDMaps assists Network Time Protocol (NTP) servers establish long term peering relationships



Distance Metrics: latency (e.g., round-trip delay) and, where possible, bandwidth.



MICRO-CYCLES



NDN INTEREST LIFETIME = TTL Time To Live



HEARTBEAT STATE META DATASNAPSHOTS

GEO-SPATIAL TEMPORAL INTENSITY METRICS, METERS, VECTORS



INFOCON / DEFCON ALERT EVENTS INFORM STAKEHOLDERS OF STATUS CHANGE i.e., NORMAL TO ELEVATED, HIGH OR SEVERE. ALERT LEVELS ARE ARBITRARY BUT MUST BE CONSISTENT e.g., 3 OR 5 FOR MACHINE TO MACHINE PROCESSING



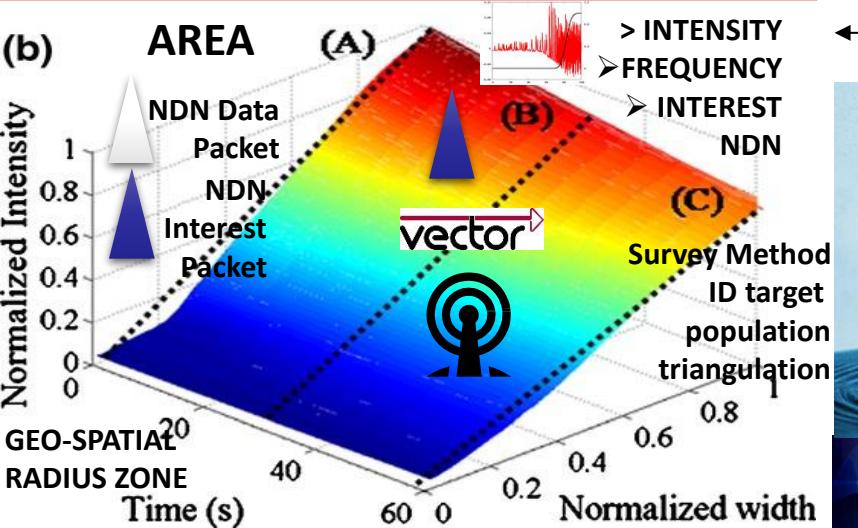
Geo-Spatial Temporal Intensity NOVEL METRICS / METERS:



Paul Revere = linear, sequential

TCP/IP hop by hop counts, by hop controls

Water Drop = AREA / INTENSITY
Cyclic Frequency



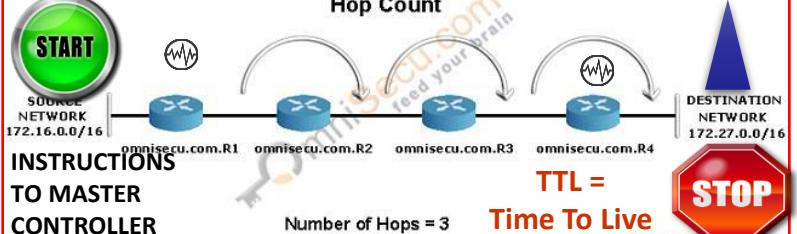
NAMED DATA NETWORKING



ARRESTED-D OASIS MQTT TELEMETRY TRANSPORT

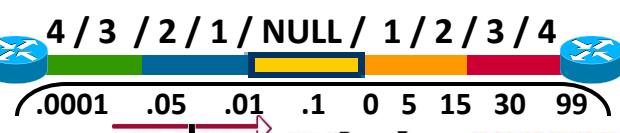


NIST TIME BEACON



CLOSER = FASTER, CHEAPER > CYCLE = > INTEREST NAMED-DATA NETWORKING

**DMAPS
SONARHOPS
INTERNET
TRIANGULATION**

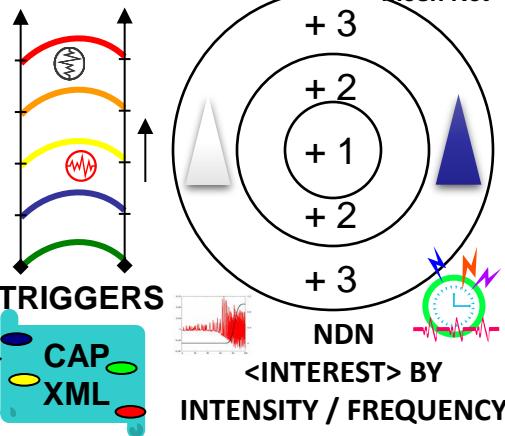


vector WirelessHART

time synchronized,
self-organizing,
mesh Net

A collage of images illustrating various concepts related to waves and motion. The top left shows a horse in a circular frame. The top center features a green clock with red lightning bolts and a red waveform. The top right shows a black silhouette of a bird in flight. The bottom half shows a large water droplet hitting a surface, creating concentric ripples. The bottom right contains the text "dreamstime.com". Along the bottom edge are three smaller images: a blue and white abstract pattern, a colorful target-like circle, and a blue and white abstract pattern.

SINE-WAVE



13/573,002 HEART BEACON CYCLE

Time -Space meter, metrics / Universal data event, alert bus
Internet of Everything "ability to hear the world's heartbeat"

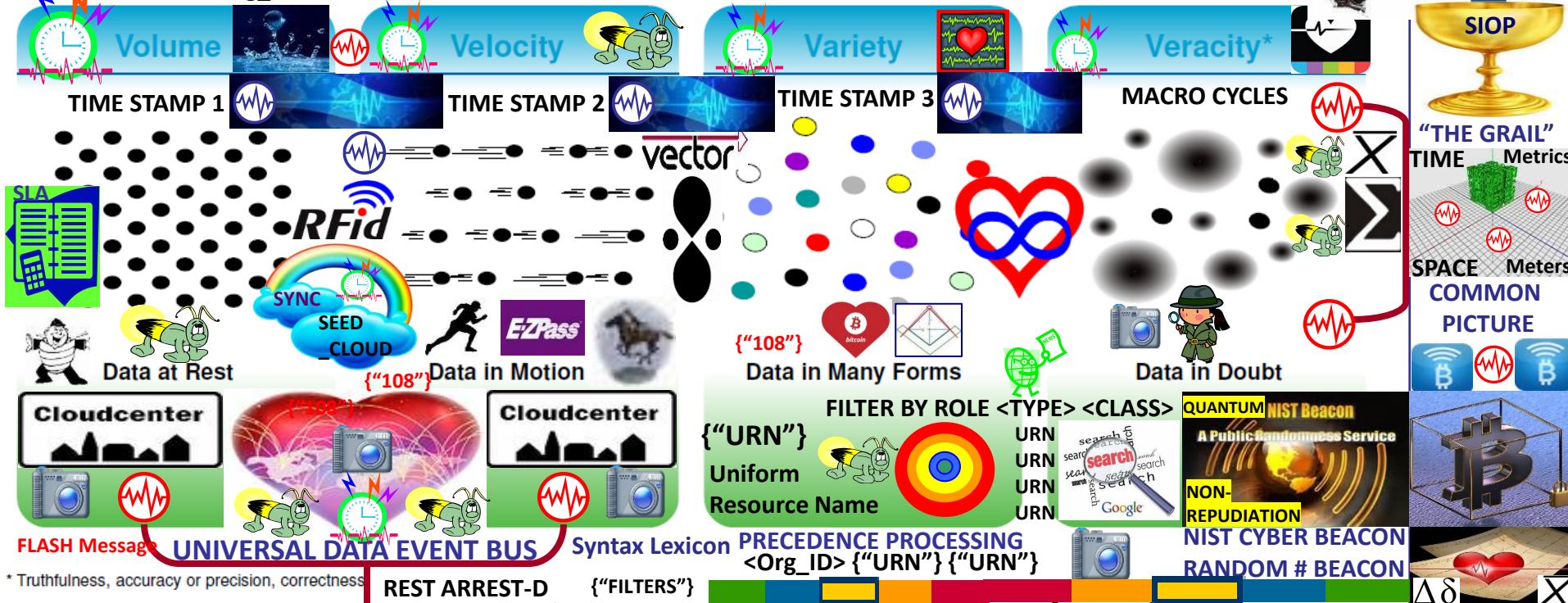


The four dimensions of Big Data

vector

VECTOR: quantity having direction and magnitude
position of a point in space relative to another point

TIME STAMP BY Org_ID, URN Before FUSION CENTER



* Truthfulness, accuracy or precision, correctness

FIREFLY – HEARTBEAT {"108"}
Stochastic Harmonization UTZ SYNC

Heartbeat synchronization strives to have nodes in a distributed system generate periodic, local "heartbeat" events approximately at the same time with a goal of all nodes starting and ending cycles at the same time eventually = map to closest **OPTEMPO HEARTBEAT**

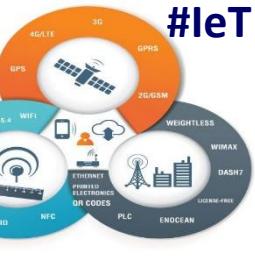
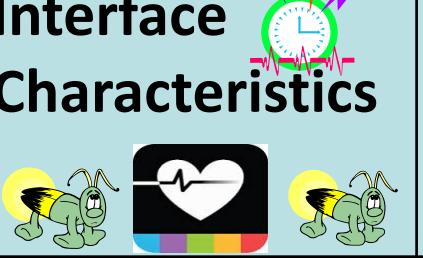
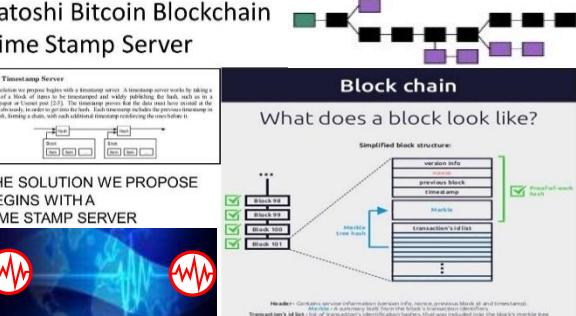
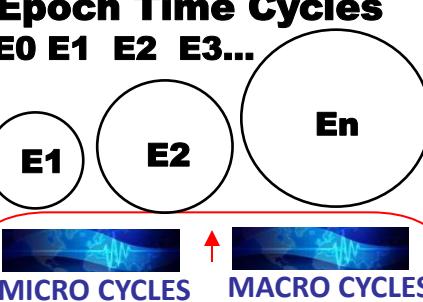
State Meta Data
Heartbeat Snaps

MICRO



CYCLES

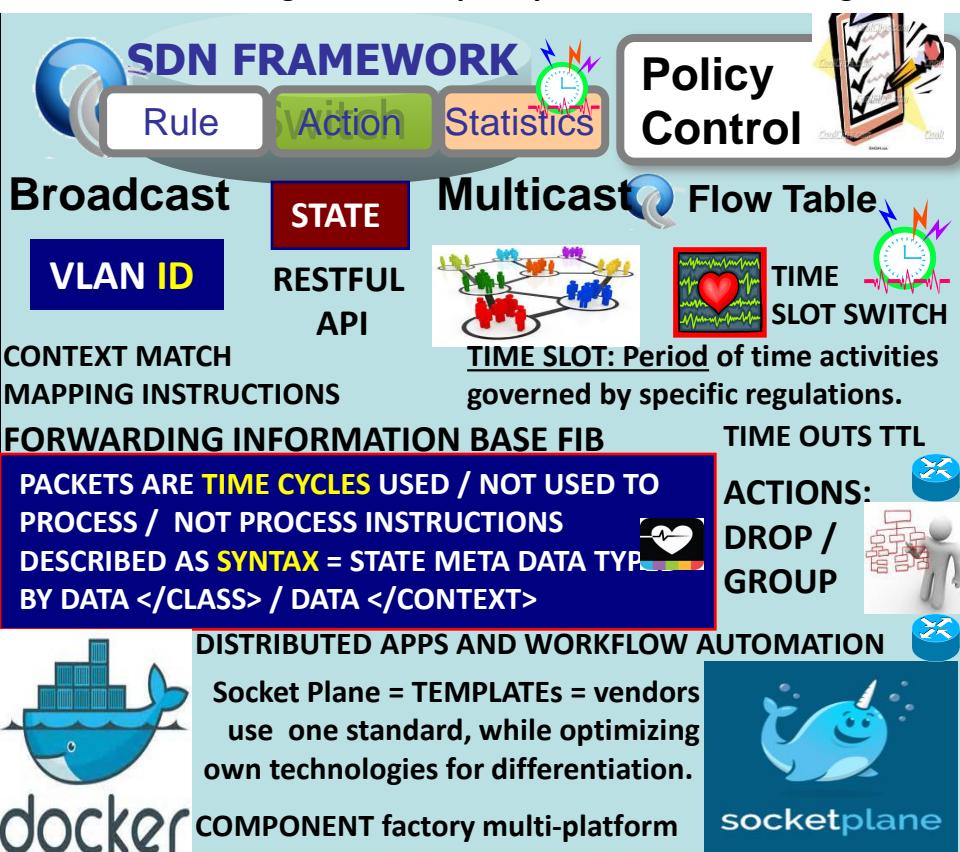
ERLANG

Interface Name	HEARTBEAT Administration Interface [SCOP]					
Documentation URL	http://scop.sourceforge.net/ http://linuxvirtualserver.org/software/index.html					
API Information	 #leT					
Programmable Money World Computer / Blockchain	#Big_Data	Functionality Areas		Cloud Interface Management configuration, start, stop cloud services, edit configuration (heartbeat messages)	Cloudcenter	Cloudcenter
NIST TIME BEACON		API Operation Count		Web service access type Network Effects / A.I.	Web application, front end to [network, device, system, blockchain] heartbeat	Cloudcenter
Interface Characteristics		LANGUAGE / PLATFORM BINDINGS	PHP Java Erlang...	Cloudcenter		Cloudcenter
"The external environment could update <u>resources</u> at random... One solution is a heartbeat : defining a default lease duration delaying updates until the next cycle "		SCOP is a web application, PHP based front-end to heartbeat, IP Virtual Server ipvs and Idirectord [e.g., check interval @ 5 seconds] SCOP can start/stop services, view/ edit configuration files e.g., heartbeat message state management snapshots, backups, take a service online/offline, add/ remove virtual/real servers, services etc.	Satoshi Bitcoin Blockchain Time Stamp Server		Epoch Time Cycles E0 E1 E2 E3...	
QubitCoin Interval: Every 30 Seconds		<p>The solution we propose begins with a timestamp server. A timestamp server works by taking the current time and publishing the hash, such as in a timestamp or a time stamp [2]. The timestamp process that the data must have existed at the time it was timestamped. This is done by publishing the timestamped data on a public ledger, forming a chain, with each additional timestamp recording the previous one.</p> <p>THE SOLUTION WE PROPOSE BEGINS WITH A TIME STAMP SERVER</p> <p>Block chain</p> <p>What does a block look like?</p> <p>Simplified block structure:</p> <ul style="list-style-type: none"> Block info Previous Hash Timestamp Merkle Transactions id list <p>Headers: Contains version information (version info), previous block's hash (previous block), timestamp (timestamp), and a Merkle root hash (merkle root hash).</p> <p>Transactions: A list of transactions (tx) that are being added to the block.</p>				



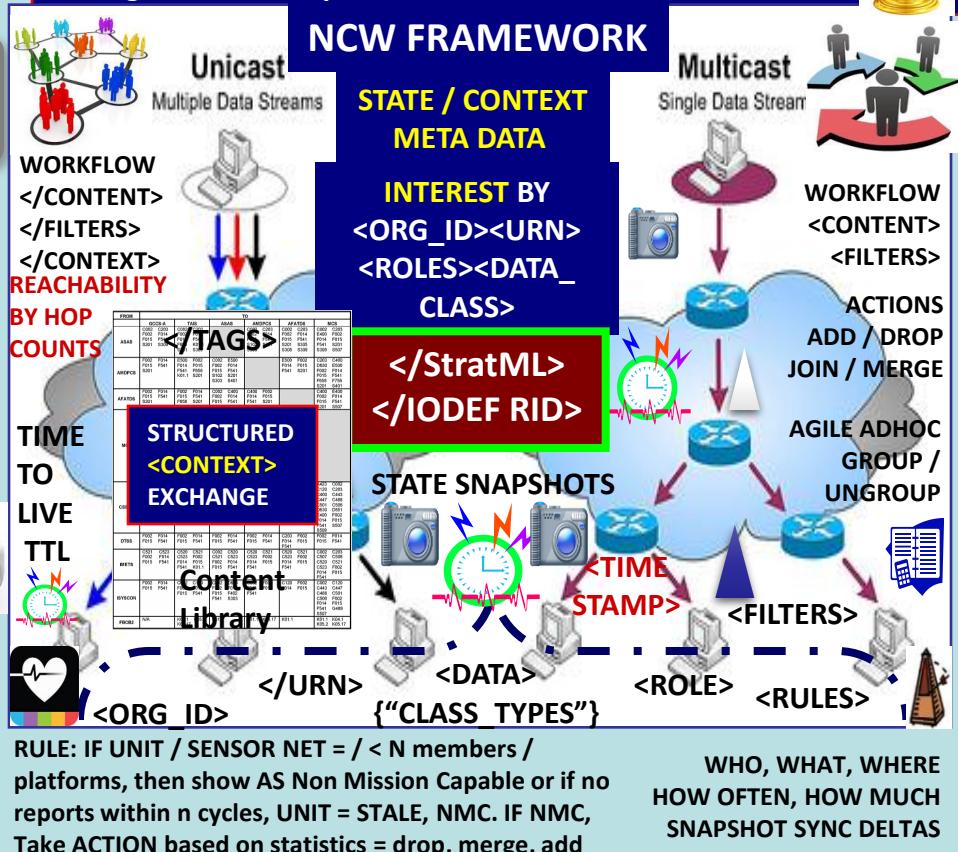
- SDN is a *framework* to allow network administrators to *automatically* and dynamically manage and control a *large number* of network devices, *services*, topology, traffic paths, and packet handling (quality of

DevOps model and tools to enable scale, programmable agility, and policy-driven automation, and provides network virtualization to mask network configuration complexity with set of networking APIs



Netcentric / "network-centric" participating in a continuously evolving, complex community of people, devices, information and services interconnected by a network to optimize resource management and provide information on events and conditions.

Net-centric Enterprise Architecture : "massively distributed architecture with components, services available across and throughout an enterprise's entire lines-of-business."



USPTO APPLICATION 13,573,002 The Heart Beacon Cycle Time – Space Meter, Applique' Overlay

GIZMAG: New NASA network poised to bring internet to entire solar system

SCt 573 ALICE CORP VS CLS BANK PHYSICAL MEMES

INTERNET TCP/IP "PING", "HOPS",
"PACKETS", FRAMES = METAPHOR



TIME / DISTANCE SERVICE LEVEL
AGREEMENT SLA / O Operations

IEEE 802.15.4 OASIS MQTT

TELEMETRY TRANSPORT

IEEE 802.1AG HOP BY HOP
DETECTION

IEEE 802.11



HOP BY HOP CONTROL

Unused Resources / Unmet Needs

/localhost/nfd/fib/add-nexthop

Geo-Spatial Temporal
Metrics, Meters

Time Series

DISTANCE
INFO SERVICE

IDMaps

SonarHops

Value

Time

WATER DROP IN POND MEME IS

SONAR NAVY METAPHOR / MEME

NDN </INTEREST>

NDN {"DISTANCE"}

NAMED DATA

NETWORKING

IEEE C37.118

Harmonization

& Sync heartbeat

update Interval

CLOSER SOURCE

CHEAPER RATE

Energy Attenuates over Distances

Attribute Series

INTEREST

DISTANCE

Temporal Series

Geo Spatial

TCP/IP HOP BY HOP COUNT

Micro Grids Closer - Cheaper

BLOCKCHAIN

MICROGRIDS

TESLA

vector

602

RISK

+3

+2

+1

Null

0

+1

+2

+3

INTENSITY

WATER DROP IN POND MEME

Attribute Series

INTEREST

DISTANCE

Temporal Series

Geo Spatial

TCP/IP HOP BY HOP COUNT

Micro Grids Closer - Cheaper

BLOCKCHAIN

MICROGRIDS

TESLA

603

NULL

+1

+2

PAUL REVERE

LINEAR, SEQUENTIAL

INTEREST

DISTANCE

Temporal Series

Geo Spatial

TCP/IP HOP BY HOP COUNT

Micro Grids Closer - Cheaper

BLOCKCHAIN

MICROGRIDS

Spatial Econometrics

TIME-SPACE BEACON INFOCON

5 4 3 2 1 INFORMATION CONDITION

Spaceship Earth Signals & Telemetry Annex

buckminster fuller operating manual for spaceship earth

??? SIRIUS DISCLOSURE

MOON = "Numbers are the Universal Language offered by deity to humans as confirmation of the truth"

ASTEROID BELTS = RARE MINERALS

MAIN ASTEROID BELT

MARS

MERCURY

VENUS

EARTH

Farther = More Cost ➤ Fuel, Resources

STOCHASTIC HARMONIZATION

Service Level Agreements

FIREFLY-HEARTBEAT ALGORITHM UNIVERSAL EVENT MESSAGE BUS

ERLANG TIME- SPACE METRICS

TROJAN ASTEROIDS

JUPITER

SYNTAX LEXICON

KOO.99

Alpha Numeric Brevity Codes

CODE

ANDERSON INSTITUTE

43 22 13 0 1.5 2.7 5.2 Light minutes Astronomical units

FIREFLY - HEARTBEAT ALGORITHM MESSAGE EVENT BUS

EPOCH / TIME CYCLES / INTERVALS

← cycle n → ← n + 1 → ← n + 2 →

cycle n n + 1 n + 2

epoch time cycles intervals

← cycle n → ← n + 1 → ← n + 2 →

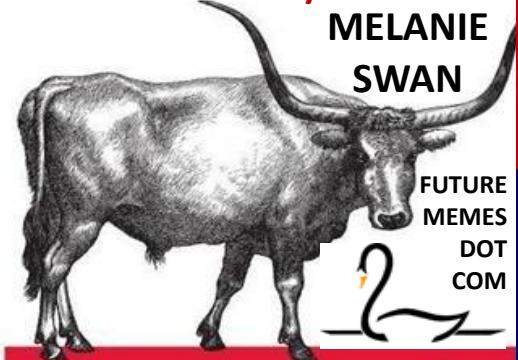
cycle n n + 1 n + 2

epoch time cycles intervals

← cycle n → ← n + 1 → ← n + 2 →

cycle n n + 1 n + 2

epoch time cycles intervals



Blockchain

BLUEPRINT FOR A NEW ECONOMY

A horizontal decorative bar at the bottom of the slide. It features two blue circles on the left and right sides, each containing a white ECG waveform. Between these circles is a larger, more complex blue graphic element that resembles a stylized brain or a series of vertical bars.

Blocktime Arbitrage MTL (machine trust language) time primitives might be assigned to a micropayment channel DAPP as a time arbiter. In blocktime, the time interval at which things are done is by block. This is the time that it takes blocks to confirm, so blockchain system processes like those involving smart contracts are ordered around the conception of blocktime quanta or units. Since blocktime is an inherent blockchain feature, one of the easiest ways to programmatically specify future time intervals for event conditions and state changes in blockchain-based events is via **BLOCKTIME**. Universal blocktime source example: a procedure call to NIST or other time oracle.

BLOCKTIME: A General Temporality of Blockchains Blocktime as blockchains' temporality allows the possibility of rejiggering time and making it a malleable property of blockchains. The in-built time clock in blockchains is blocktime, the chain of time by which a certain number of blocks will have been confirmed. Time is specified in units of transaction block confirmation times, not minutes or hours like in a human time system. Block confirmation times are convertible to minutes. Conversion metrics might change over time. Network Economies: Economic System as Configurable Parameters

The current standard time common throughout the world is based on a 24-hour clock, with zones that are either 12 hours ahead or behind **Coordinated Universal Time (UTC)**. However, these time zones are decided upon by individual governments, without overall coordination and can even extend fourteen hours ahead UTC.



The proposed **Universal Timezone System** would do away with all these different time zones. Instead, it would be the same time all over the world, all the time.



Erlang programming language / mini OS
massively scalable high availability, real-time Erlang's runtime system built-in concurrency distribution, fault tolerance



- coordinate 1000's of virtual machines
- ...distributed Dbases RIAK, CouchDB
- ...real time data dashboards
- ...service oriented software architectures
- .. server, API endpoints .. RabbitMQ
- ..distributed, multi-node architecture.
- protocol-aware load-balancer, stateful binary comi



Functional Sequential Erlang

- Data types:
 - Integers (incl. BigNums), floats, atoms
 - tuples/records, lists/plists, binaries, funs
 - Maps (added in R17)
- single assignment
- pattern matching & guards
- closures (anonymous function data type)
- list comprehensions
- bit-syntax & binary comprehensions
- tail recursion & tail call optimization (TCO)

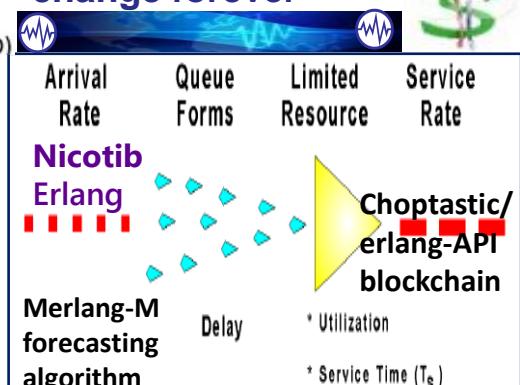
SORTING ALGO'S

[Ericsson Open Money For Society Patent App](#)



[20130166398 "System And Method For Implementing A Context Based Payment System."](#)

"It is our vision that one day everyone with access to a mobile phone will be able to spend, send and receive money as easily as sending a text via SMS"
"When money is open, the way we send, spend and receive money will change forever"



Rho ratio $\Delta\delta$ queueing systems wait times
Service Rate per unit time stochastic processes, function scheduling Start, Stop TTL

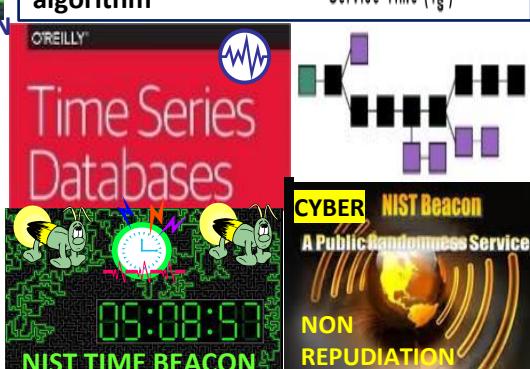


distributed "noSQL" database, embedded right into Erlang, supports indexing, replication, transactions, and fail-over

Fast ETS in-memory, and DETS persistent on-disk database

Mnesia database ("Organization_ID") Global name resolution

FROM	TO/CC-A	THREE	AMAZON	AMAZON	WIKI
XBRL	/ CDL / DAML				
ALPHA	NUMERIC				
BREVITY	CODES				
AZURE	BLETCHLEY				
STRUCTURED					
MILITARY	MESSAGE				
TEMPLATE	FORMS				
LOGIC /	FILTERS				



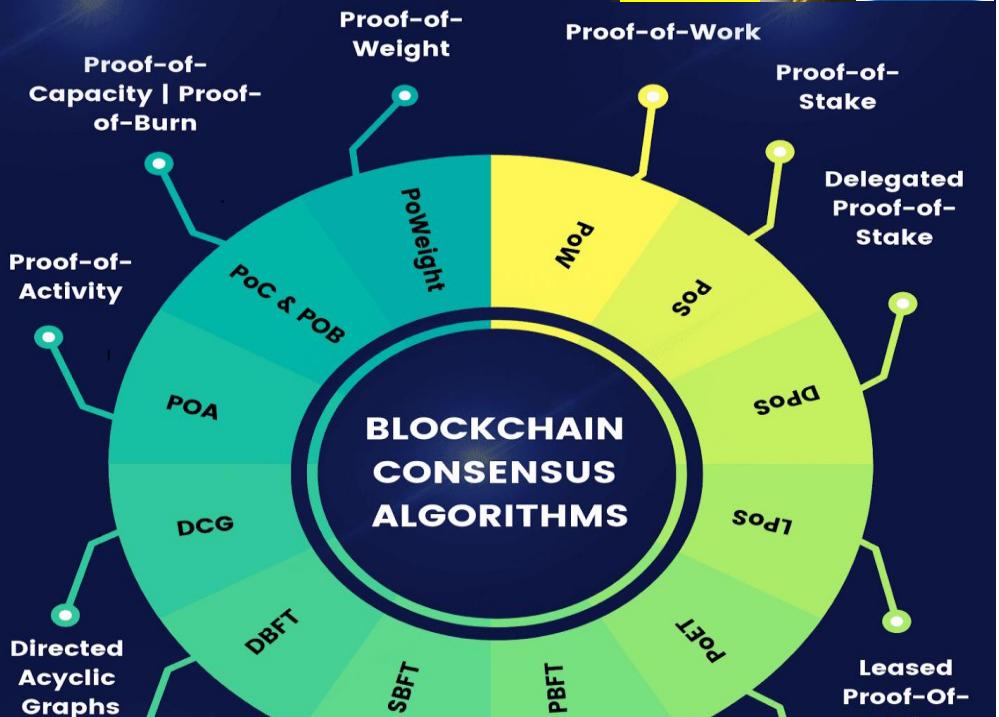
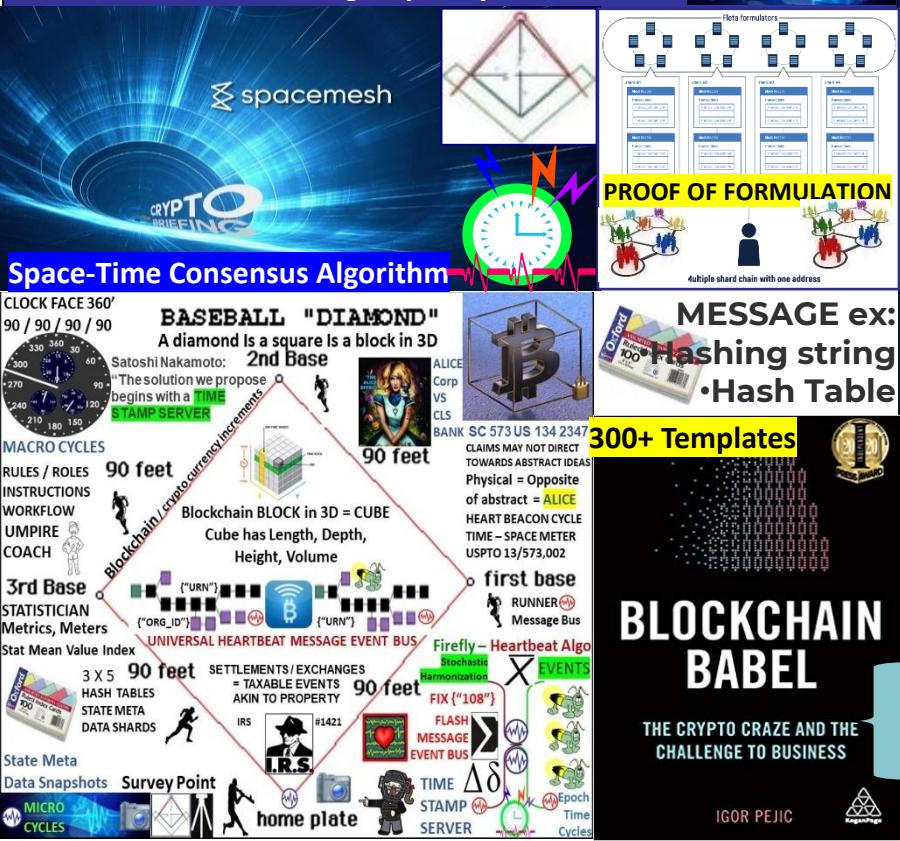
Q: Which meme describes the myriad blockchain consensus algorithms the most comprehensively that uses an algorithm (based on nature = “shortest path to the knowledge of truth Luxor Temple) enabling distributed system of systems geo-spatial, UTZ Universal Time Zone temporal, semantic - syntactic sync, OPSCODE brevity code, data element & symbol (for A.I. man – machine interface) consensus?

Blockchain Consensus Algorithms & Mechanisms



In the world of blockchain consensus algorithms, consensus is the **HEART OF THE BLOCKCHAIN NETWORK**. Its main purpose is to achieve agreement on transactions among a distributed system (s)

Proof of Formulation: PoF: generation / propagation of blocks using a previously agreed sequence between participants of the generation of blocks, formed by two groups: a generator group and/or Formulator and a group of synchronization.



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

- Reuse, mod of System of systems engineering framework, Syntax Lexicon Library data elements



- STRUCTURED DATA EXCHANGE

Reuse brevity codes mapped to 2525D symbol sets comprised of 300 + message sets for A.I. - machine

Block-Time DLT arbitrage among Trade Federations </Org_ID>

{“URN”} </URN> = COMMODITY



Spatial / temporal UTZ

synchronization, stochastic

harmonization, Time - Space

Distance Estimation Service

Common Consensus Algo meme

Eco sustainable incentives

“We can synchronize ourselves,

DAO Trade Federations in time - space for common purposes”

Eco sustainable, Equitable

Economic econometrics.

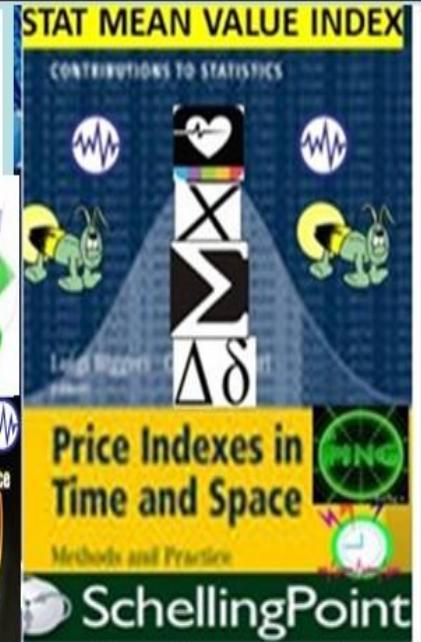


ERC 20 TOKENS STANDARDS LIST

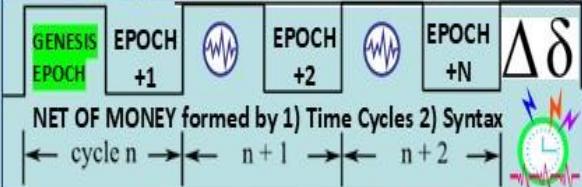


Blockchain Council

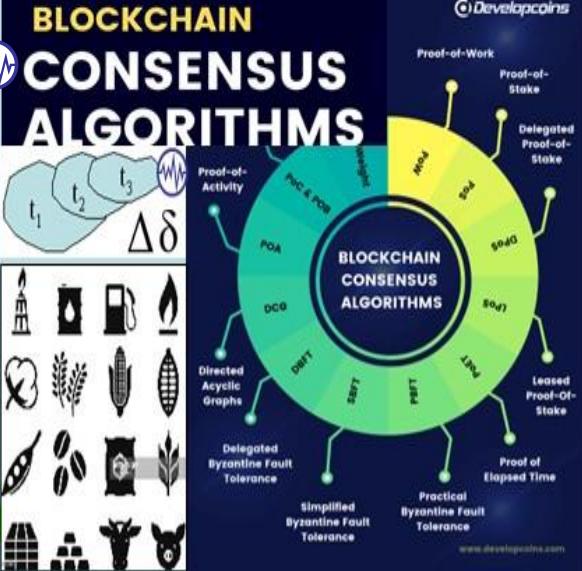
All things net, net of money formed with 1. Epochs 2 Syntax



SchellingPoint



BLOCKCHAIN CONSENSUS ALGORITHMS



STABLE PROTOCOL THREE MAIN TYPES:

DeFi-Native: Cap Labs, Elixir, Level

Collateralized Debt Positions: Ducat, Felix

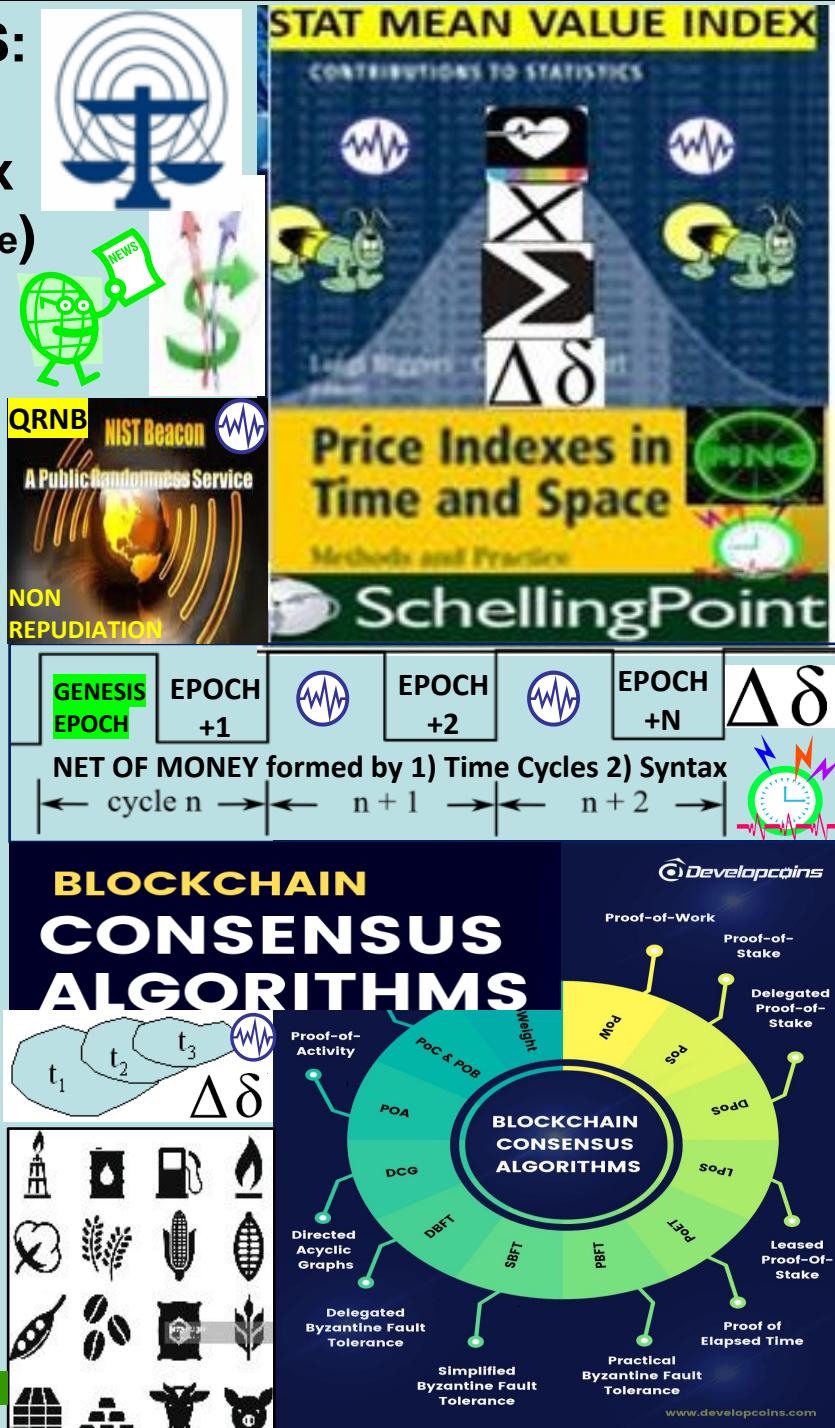
RWA-Backed:, EAnzen, Superstatethena (UStb update)

1) DeFi-Native collateral backing: stablecoin engine produces redeemable tokens of various denominations (USD, BTC, ETH, etc) system of external agents, such as market makers, MEV actors and RWA protocols, to access collateral and generate independent yield on behalf of holders. These actors keep profits over a predetermined threshold, incentivized to earn as much as possible. behavior is kept in check by security delegations from restaking protocols, support good actors, penalize bad ones

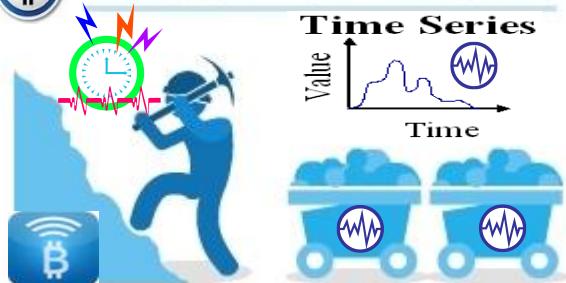
2) Collateralized Debt Positions (CDPs)

CDP protocols allow users to borrow assets by locking up collateral. When a user creates a CDP, they deposit a certain amount of ETH, BTC, USDC, or other assets into the protocol to borrow a proportionate amount of another asset, in this case a stablecoin. If the value of the deposited collateral falls below a specified threshold (loan-to-value level or collateral ratio), the CDP becomes under-collateralized and is recalled, or liquidated, with the protocol automatically selling off the underlying assets to repay the debt and maintain the stability of the system. After the underlying collateral is liquidated, the user usually gets to keep the asset they've borrowed, minus some kind of liquidation penalty.

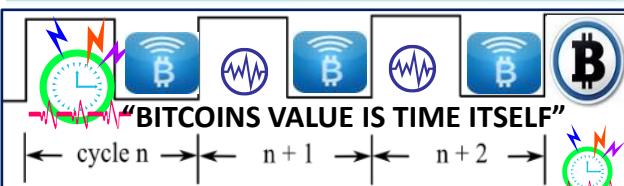
3) RWA-Backed by off-chain real-world assets



PROOF-OF-WORK



THE PROBABILITY OF MINING A BLOCK IS DEPENDENT ON HOW MUCH WORK IS DONE BY THE MINER



TIMESTAMP marks the point that work started. Additionally, it contributes to the uniqueness of the work by an individual miner

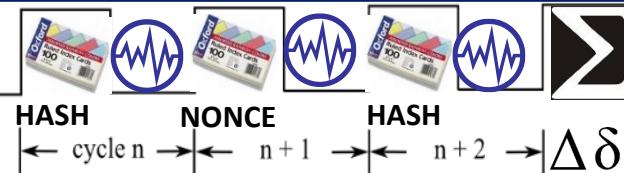


THROTTLE equivalent to difficulty. State
•target = maximum value of 8 bytes Snap
Shots

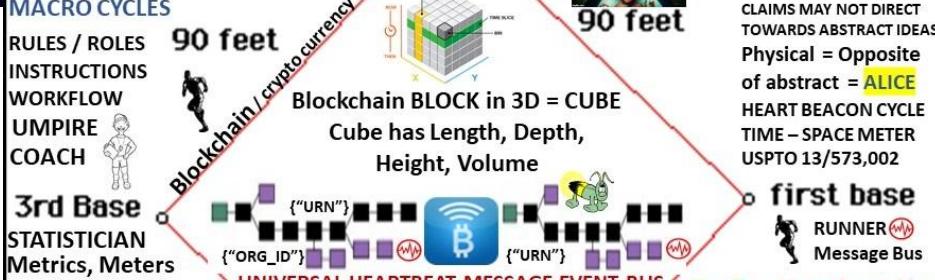
NONCE increments from 0..N until the target is met.



GUESS stores the guess
Effectively, it begins at infinity.



Proof-of-Work: users perform some form of work to participate. Work must be difficult for the client but easy for the server/network to verify. POW determines the approximate time between blocks = rate that new bitcoins are created. Work is submitted as a message/timestamp payload with a nonce value. Payloads are made unique through use of public key encryption or address.Nonce allows checking the work



MESSAGE example
Hash string
•Hash Table

300+Message Templates

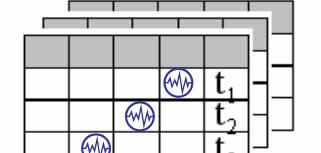
| FORM | FORMAT |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| OXFORD | FORMAT |
| APAB | FORMAT |
| ANPAB | FORMAT |
| CNN | FORMAT |
| CBSN | FORMAT |
| CPB | FORMAT |
| MSNBC | FORMAT |
| NBC | FORMAT |
| PEW | FORMAT |
| REUTERS | FORMAT |
| VOA | FORMAT |

LOGIC FILTERS
LOGIC GATES

SYNTAX LIBRARY LEXICON

CODER'S GUIDE

POW PAYLOAD : COMBINATIONS OF ENCRYPTED SYNTAX Attribute Series





In a proof-of-stake network, it is the number of coins held in a wallet that determines the "weight" of the user the likelihood for the user to receive the block reward. In a Proof-of-Weight consensus mechanism, any value, not just the amount of coins held, is used to determine the "weight" of a user.



TIME – SPACE MEASUREMENTS OF TOKENIZED COMMODITIES, SECURITIES... STOCHASTICALLY HARMONIZED ACROSS UTZ Universal Time Zone

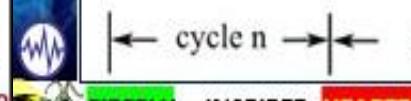
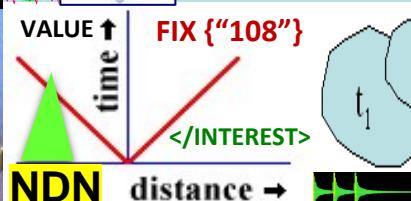
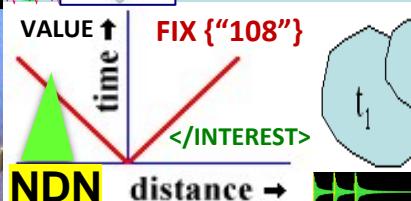


The Volumetric Weight is often referred to as dimensional weight

$$\text{Volumetric Weight} = [\text{Width} \times \text{Length} \times \text{Height}]$$



On the Filecoin blockchain, for example, the amount of IPFS data that a user is storing is used as the weighted value.



"LENGTH OF REAL TIME CYCLE IS ARBITRARY AS LONG AS NODES EVENTUALLY AGREE"





OpenBazaar open source decentralized peer to peer network online commerce —using Bitcoin —no fees and no restrictions



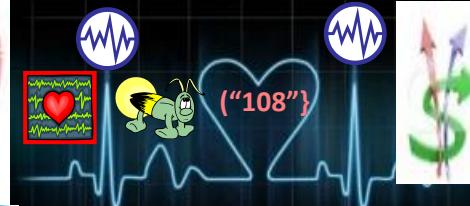
- Creates an online store for users to sell goods for Bitcoin
- Connects these stores directly to each other on a global network
- Users browse individual stores, search for products across whole network
- A buyer directly connects, purchases good from the merchant using Bitcoin
- Bitcoin payments via escrow protect merchants & buyers during trade

OPENBAZAAR.ORG
BLOCKCHAIN ARBITRAGE



SLA CLOSER = < \$ CLOSER = < CO2

COMMODITIES
ECONOMIC HEARTBEAT



STAT MEAN VALUE PULSE
REAL WORLD ASSETS RWA

STAT MEAN VALUE INDEX

CONTRIBUTIONS TO STATISTICS



Price Indexes in
Time and Space
Methods and Practice

SchellingPoint

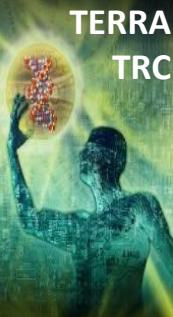
OpenBazaar is a different approach to online commerce. OpenBazaar connects buyers and sellers directly. Because there is no one in the middle of your transactions there are no fees, no restrictions, no accounts to create, and you only reveal personal information you choose.

PROJECT PHILOSOPHY: *MAKE TRADE FREE*

Mission: *shift trade to a decentralized platform*



Demurrage TERRATRC TRADE
Fees REFERENCE CURRENCY
“Money of Peace”



STAT MEAN VALUE INDEX

Free, open markets: Commodity / Currency Index

Creating open, competitive markets for services
that cannot be perfectly solved with technology



CONTRIBUTIONS TO STATISTICS

• Privacy </Org_ID>



HASH Values
Nonce Values </Org_ID>



STAT MEAN VALUE INDEX

- Users should fully control their data. Users have freedom to reveal as much personal identifiable information as they want, when they want



STAT MEAN VALUE INDEX

Bitcoin: OpenBazaar transactional currency



FIREFLY – HEARTBEAT ALGO

STAT MEAN VALUE INDEX

Cryptographic Security

- tamper-proof agreements
- 1) minimize potential disputes
- 2) fast-track dispute resolution



STAT MEAN VALUE INDEX



STAT MEAN VALUE INDEX



STAT MEAN VALUE INDEX

DON: DECENTRALIZED ORACLE NETWORKS



Explicit Staking

Chainlink nodes lock up LINK tokens as collateral that can be slashed for malicious and undesirable behavior.

Chainlink's explicit staking model's goal is to achieve a super-linear staking impact—a mechanism where malicious actors are required to have a budget significantly larger than the combined deposits of all nodes within a DON, creating increasingly greater security guarantees for high-value smart contract applications in a cost-efficient manner.

Explicit staking in Chainlink 2.0 oracle reports reflect the state of specific real-world events outside a blockchain (off-chain).

Chainlink's explicit staking mechanism protects against a broad range of attacks, including advanced strategies like prospective bribery, in which nodes are targeted according to their role in the network, such as those selected for report adjudication.



Behind each DON is a service agreement that will define the number of LINK tokens each oracle node is required to stake and key performance requirements, such as how far an individual node's response can deviate from the aggregated value and how far the aggregated value in an oracle report can deviate from the correct value it should represent. The service agreement can also define other parameters such as the data sources used, how often updates should occur, how much each node is paid, and more.

ALERT LEVEL >

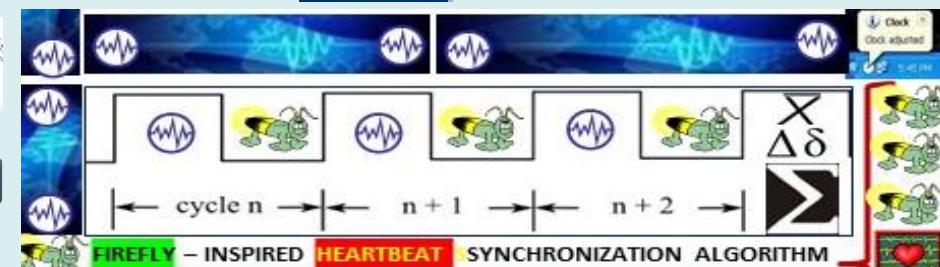
> NEWSCAST ZONE

Outputs produced by a DON are structured into reporting rounds, where each round involves the creation of a new oracle report containing each node's individual response for a particular piece of data (e.g. the price of ETH/USD), with all the individual responses aggregated into a single value (e.g. taking the median). A DON network's service agreement defines how each report should be generated & conditions in which a node's stake can be slashed.



Linear Sequential Meme

....-1 / 0 / +1...





VERITAS TOKENS P2P Capital Market smart contracts Eco Economic HEARTBEAT

Decentralized Trading Platform DAO ORACLE
access conventional, legacy financial data to
price, value, trade & settle OTC, P2P financials



INFOCON
5 4 3 2 1
INFORMATION
CONDITION



{"108"}

STATISTICAL MEAN VALUE INDEX PULSE

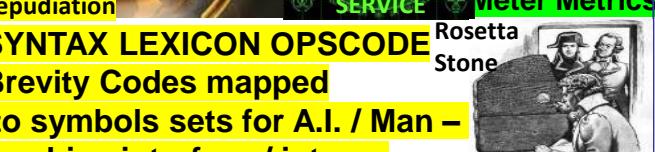
GDP INDEX ECONOMY K% RULE



{"108"}



UTZ SYNC
STOCHASTIC HARMONIZATION



Rosetta Stone

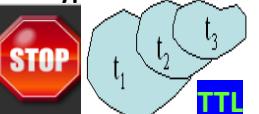
Zero Trust Transaction: money performs I.A.W. to terms agreed to by parties. Ex: purchase of widget from retail store where widget must be delivered to person B on TIME X, in Y condition at PLACE Z or person A does not get paid. Stock, currency, commodities, letters of credit, insurance underwriting, trading, intellectual property...

Cost = stated rates that fluctuate with VeUSD exchange rate.
Veritas holders get priority. The ability to redeem Ve against USD gives clients instant value.

DAO Distributed Autonomous Organization Investor Pools



"LENGTH OF REAL TIME CYCLE IS ARBITRARY AS LONG AS NODES EVENTUALLY AGREE

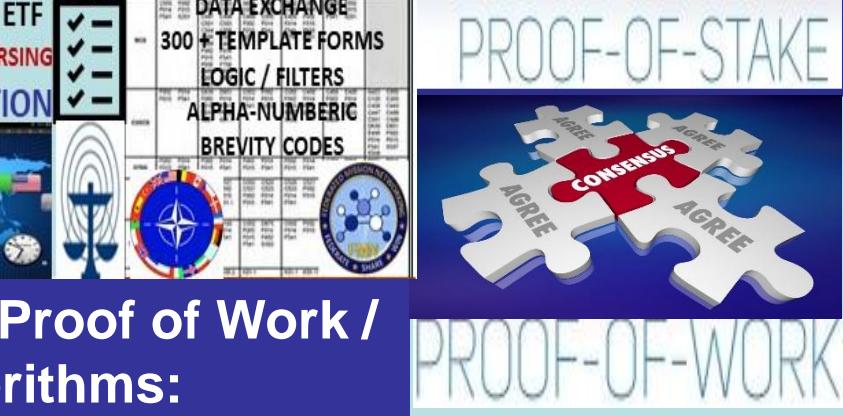
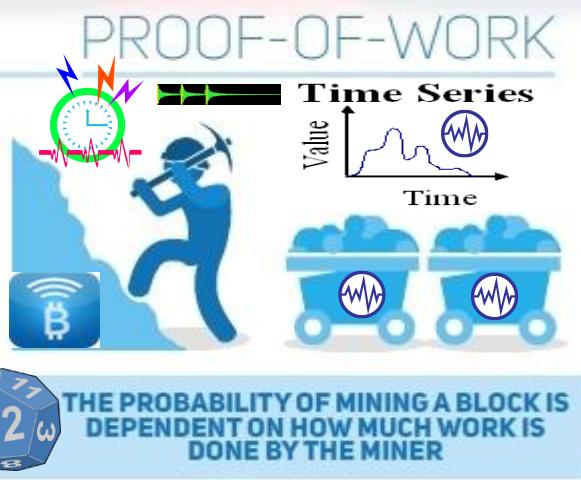
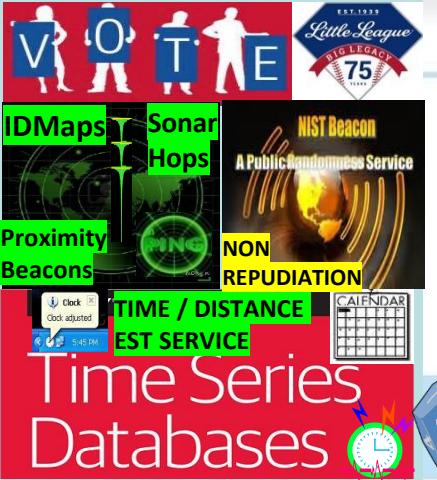




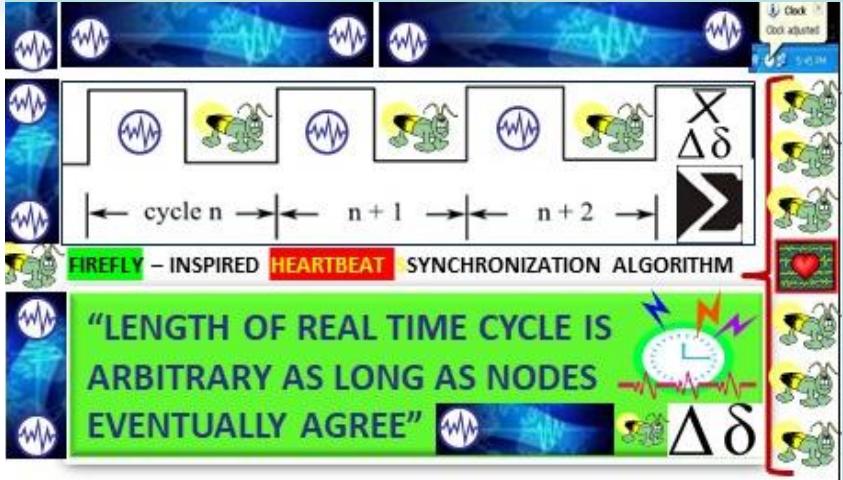
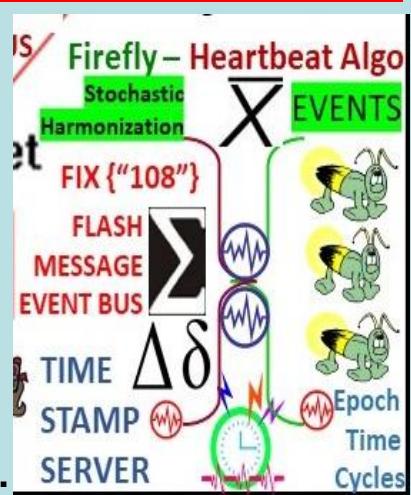
Proof-of-activity PoA is a combination of Proof of Work / Stake blockchain consensus algorithms:

Example of Proof-of-Activity (PoA)

Decred (DCR) is the most well-known cryptocurrency that uses the PoA consensus mechanism. With Decred, blocks are created about every five minutes.² The mining process for Decred begins with nodes (computers that participate in the network) looking for a solution to a cryptographic puzzle with a known difficulty level in order to create a new block. Once the solution has been found, it is broadcast to the network. The network then verifies the solution. At this point, the system becomes a PoS. The more DCR that a node has mined, the more likely they are to be chosen to vote on the block. (In DCR's blockchain, stakeholders earn tickets that grant them voting power in exchange for mining DCR.) Five tickets are chosen pseudo-randomly from the ticket pool; if at least 3 of the 5 vote "yes" to validate the block, it is permanently added to the blockchain. Both miners, voters are rewarded with DCR.



HEART BEACON CYCLE 13/573,002

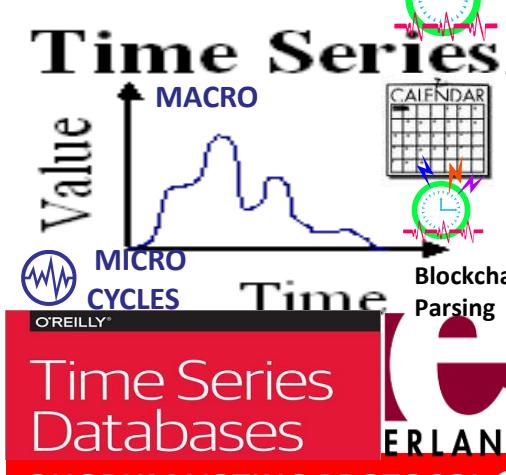


SAWTOOTH LAKE POETIC CONSENSUS PROOF OF ELAPSED TIME: POET

"PoET for 'Proof of Elapsed Time', is a **lottery protocol** that builds on trusted execution environments (TEEs) provided by Intel's [Secure Guard Extensions] to address the needs of large populations of participants. The second, **Quorum Voting**, is an adaptation of the Ripple and Stellar consensus protocols and serves to address the needs of applications that require immediate transaction finality."



PROOF OF ELAPSED TIME



Time Series Databases

QUORUM VOTING PROTOCOL

Voting Based Selection: stake size & block generators selected by votes

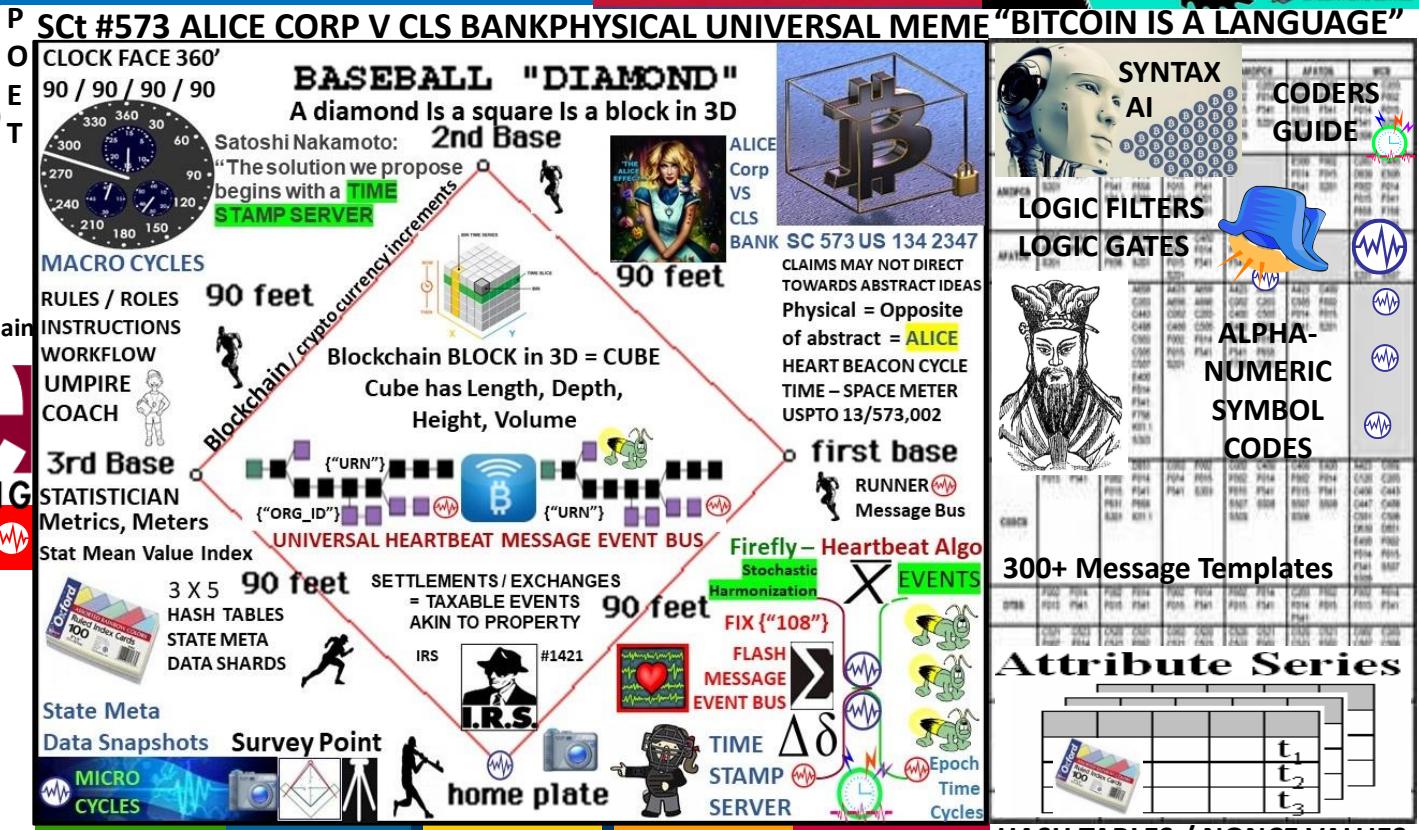
Voting based selection Instead of only using the stake size, the block generators can be selected by votes
ex: League MVP

MVP



Robert's Rules quorum = minimum # of voting members who must be present at meetings to conduct business of the group

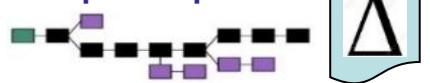
TOURNAMENT LEAGUE BOARD



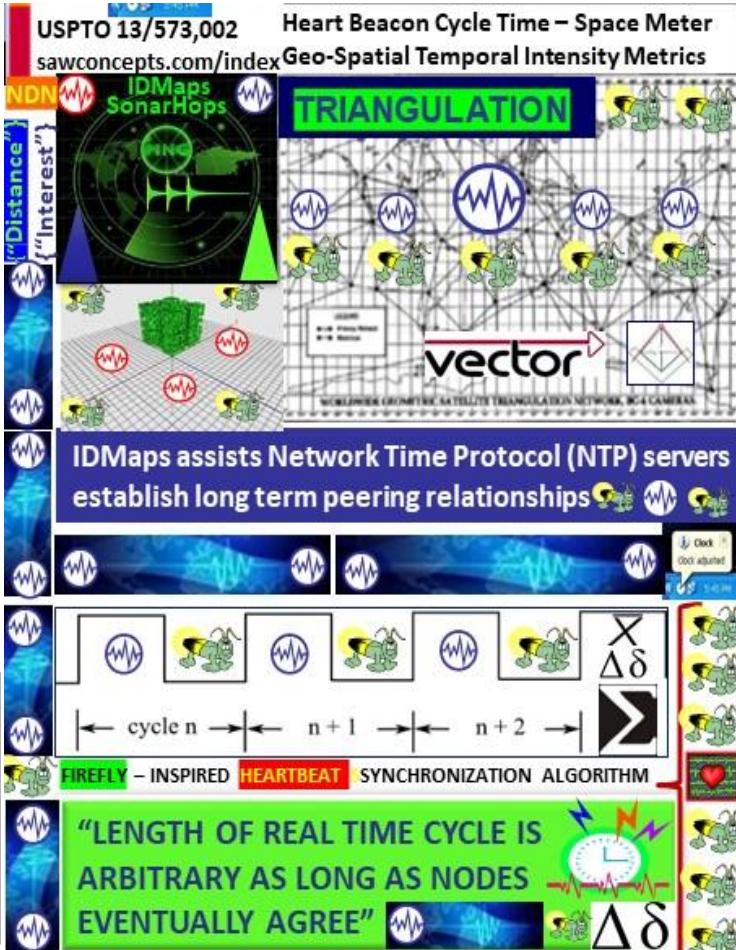
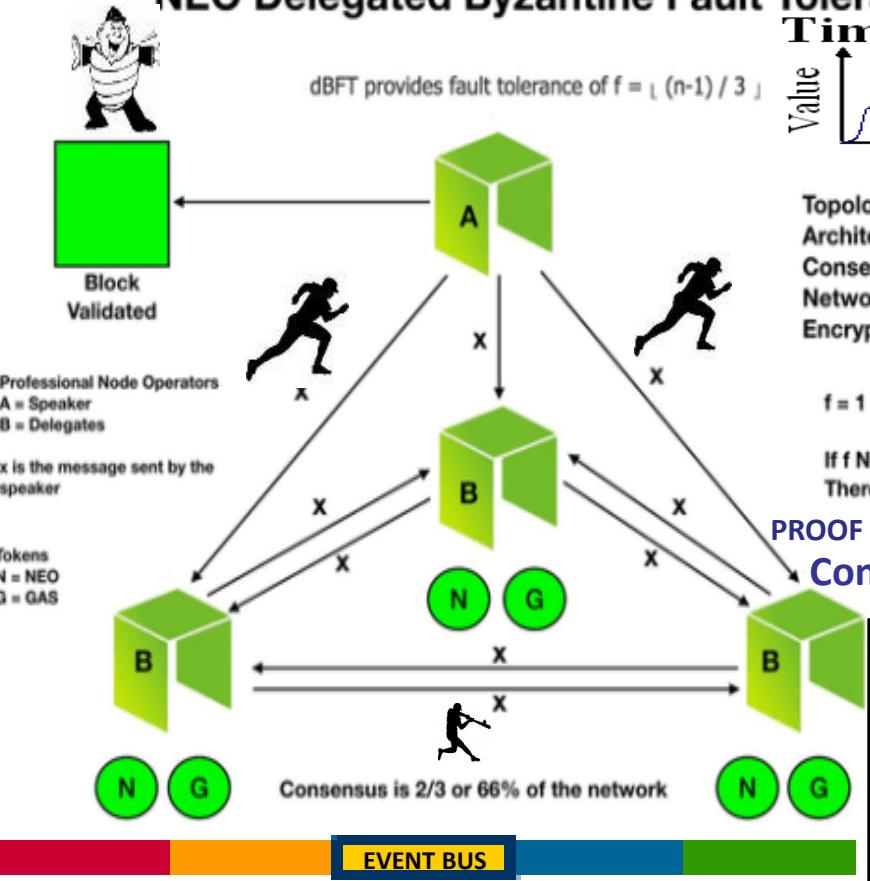
"BITCOIN'S VALUE IS TIME ITSELF – DIGINOMICS"



Capture ledger's state $\Delta \delta$
Transaction language changes ledger state
Consensus, transaction acceptance protocol



NEO Delegated Byzantine Fault Tolerance (dBFT)



No collusion between individuals or entities is possible. Participants in the network validate transactions adding to the ledger have no affiliation or relationship (political, adversarial, etc.) with the transaction or its participants. Only a permissionless platform can meet this set of criteria.

Specifically, a random selection algorithm called RS is developed to cooperate with the voting mechanism, which can effectively reduce the number of nodes participating in the consensus process. Our proposed scheme is characterized by the unpredictability, randomness, and impartiality, which accelerate the system to reach consensus on the premise of ensuring system activity. ✓





Hashgraph consensus algorithm for replicated state machines

- Consensus Event Time Stamps
- State Meta data consensus order
- **Virtual voting:** each member has a Hashgraph copy
- Famous witnesses

data structure that records who gossiped to whom in what order $\Delta\delta$

Gossip In Bitcoin: transactions and mined blocks are gossiped.
Consensus is enhanced via "gossip about gossip"



DAG "Directed Acyclic Graph" large number of blocks arrive at the same time. DAG system reaches consensus leveraging "Gossip"... information spread by a computer calling up other computers at random, sharing everything it knows

Community members reach consensus agreement on events / transactions order inside events, and agree on a timestamp for each event /transaction

DAG finite directed graph
= no directed cycles

Hashgraph Member Event Transaction Consensus Order Timestamp Gossip protocol Self-parent Other-parent Graph Hash Hashgraph

Consensus Order

$$\sum \Delta\delta \times$$

Round created Witness 0 / 1

Famous witness Election

Vote See Strongly see Supermajority

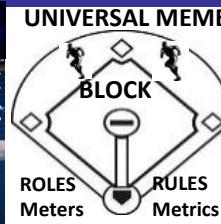
Decide Round created Round received

Consensus timestamp Consensus order $\Delta\delta$

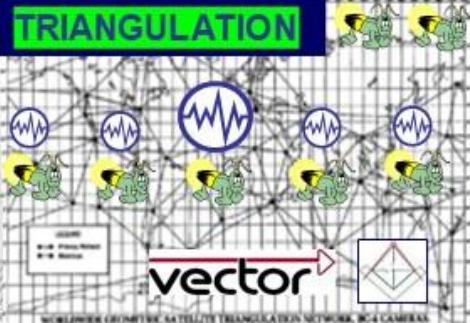
Synchronous Asynchronous

Micro-Cycle State Meta Data Snapshots

The Heart Beacon Cycle Time – Space Meter
Adaptive Procedural Template Checklist
Heartbeat Sync Delta state meta data
structured data exchange snapshots
300 + Use Case message template sets
Rosetta Stone Syntax lexicon Coder's guide

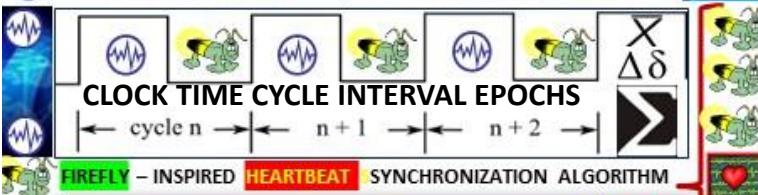


Heart Beacon Cycle Time – Space Meter
Geo-Spatial Temporal Intensity Metrics



vector
WORLDWIDE LOW-EARTH ORBIT SATELLITE TRIANGULATION NETWORK, 364 CAMERAS

IDMaps assists Network Time Protocol (NTP) servers establish long term peering relationships



"LENGTH OF REAL TIME CYCLE IS ARBITRARY AS LONG AS NODES EVENTUALLY AGREE"



Proof of Burn



Proof of burn (POB) operates on the principle of allowing miners to “burn” virtual currency tokens. They are then granted the right to write blocks in proportion to the coins burnt.

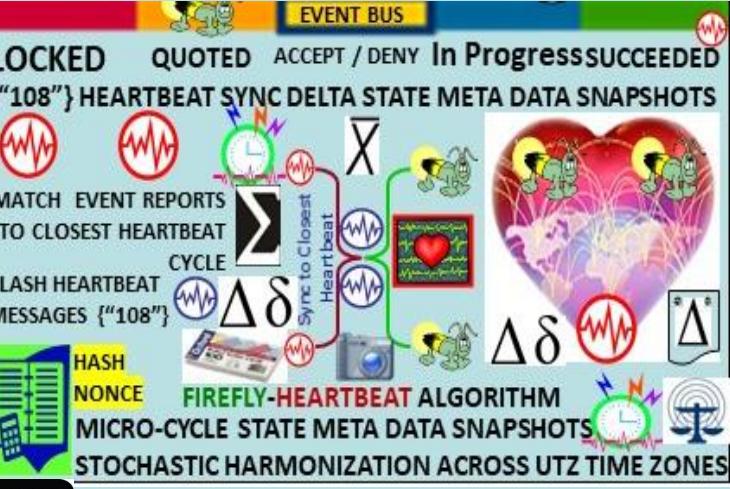
Iain Stewart, the inventor of the POB algorithm, uses an analogy to describe the algorithm: burnt coins are like mining rigs. In this analogy, a miner burns their coins to buy a virtual mining rig that gives them the power to mine blocks. The more coins burned by the miner, the bigger their virtual mining "rig" will be.²

To burn the coins, miners send them to a verifiably un-spendable address. This process does not consume many resources (other than the burned coins) and ensures that the network remains active and agile. Depending upon the implementation, miners are allowed to burn the native currency or the currency of an alternate chain, such as Bitcoin. In exchange, they receive a reward in the native currency token of the blockchain.



You can send out transactions to the network that will burn your own cryptocurrency coins. Other participants can mine/burn on top of your block, and you can also take the transactions of other participants to add them to your block. Essentially, all of this burning activity keeps the network agile, and participants are rewarded for their activities (both burning their own coins and burning other people's coins).

To prevent the possibility of unfair advantages for early adopters, the POB system has implemented a mechanism that promotes the periodic burning of cryptocurrency coins to maintain mining power. The power of burnt coins “decays” or reduces partially each time a new block is mined. This promotes regular activity by the miners, instead of a one-time, early investment. To maintain a competitive edge, miners may also need to periodically invest in better equipment as technology advances.



IEEE C37.118 Time Synchronization
Harmonization Heartbeat update Interval
PMU data time-stamp measure C37.118

Phase 2: Shared file stores data for 5 tags:

- (1) Active ID
- (2) Heartbeat 1.
- (3) Heartbeat 2.
- (4) Device Status 1.
- (5) Device Status 2.

TAG	SLA/O	Token Award
{"Org_ID"} ActiveID	[UFO2_ACTIVEID]	</EVENT>
IF1_Heartbeat (IF-Node1)	[UFO2_HEARTBEAT:#]	</EVENT>
IF2_Heartbeat (IF-Node2)	[UFO2_HEARTBEAT:#]	</EVENT>
{"UUID"} IF1_DeviceStatus (IF-Node1)	[UFO2_DEVICESTAT:#]	</EVENT>
{"UUID"} IF2_DeviceStatus (IF-Node2)	[UFO2_DEVICESTAT:#]	</EVENT>
IF1_State (IF-Node1)	$\Delta\delta$	[UFO2_STATE:#]
IF2_State (IF-Node2)	$\Delta\delta$	[UFO2_STATE:#]

Proof of Capacity PoC



consensus mechanism algorithm for mining devices to use hard drive space to decide mining rights, validate transactions

Proof of capacity for mining devices, also known as blockchain nodes, to use empty space on their hard drive to mine the available [cryptocurrencies](#).



Instead of repeatedly altering the numbers in the block header & repeated hashing for the solution value as in a PoW system, PoC works by storing a list of possible solutions on the mining device's hard drive before mining activity starts



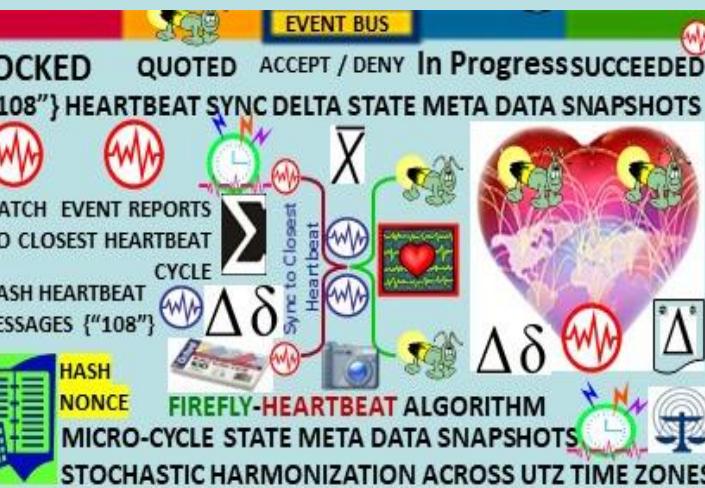
The larger the hard drive, the > possible solution values one can store on the hard drive, the more chances a miner has to match required hash value from his list, resulting in more chances to win the mining reward.



Analogy: if lottery rewards are based on matching the most numbers on the winning ticket, then a player with a longer list of possible solutions will have better chances of winning. Additionally, the player is allowed to keep using the lottery ticket block numbers again and again repeatedly.



Bitcoin purchase akin to property



PoST Proof-of-Spacetime (PoST)

PoST shows that physically storing data (spent "spacetime" resource/allocated storage capacity to the network) over a certain period of time.



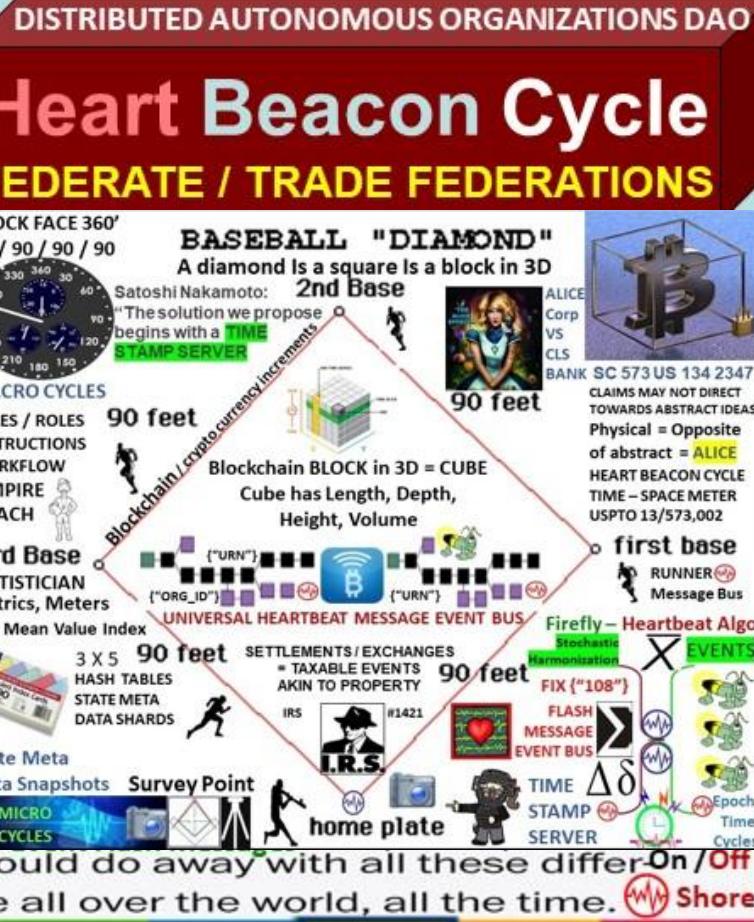
PoST users / nodes must prove that they are spending a certain amount of space for storage.



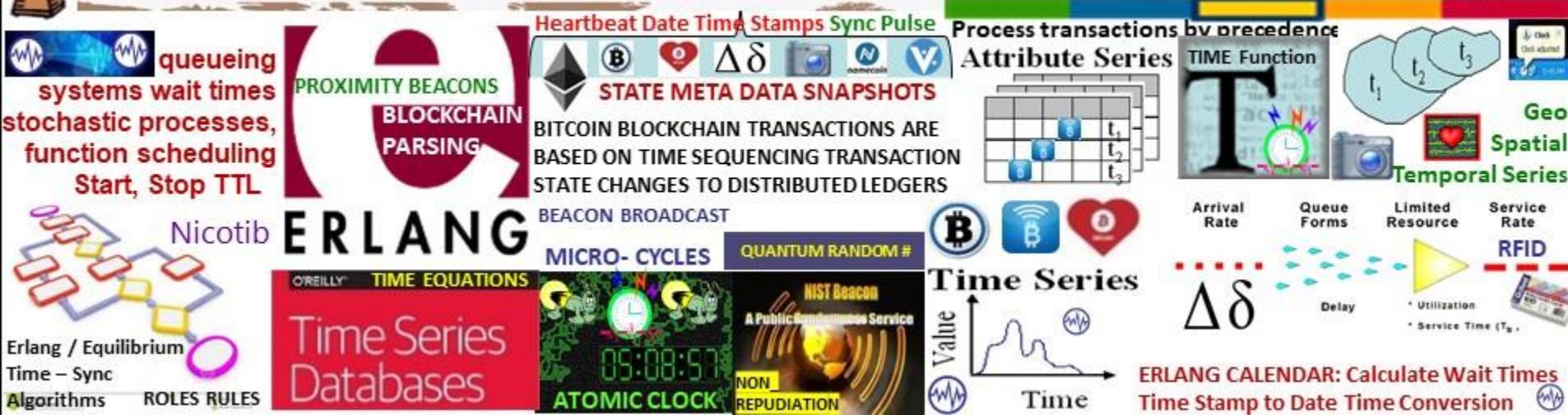
Contribution settings ▾

IRS Memo #1421

Bitcoin purchase akin to property



The proposed Universal Timezone System would do away with all these different time zones. Instead, it would be the same time all over the world, all the time.



Proof of Authority



{"GROUP ID"}
{"Org_ID"}

Not pay to play, Node identiy is kept as stake

A PoA network are secured by validators, that are selected democratically by existing validators. The nodes on the PoA network are rewarded for validating the transactions on the network. The identity of the validator is kept anonymous by encryption and secured cryptographically. It is revealed only as a negative reinforcement when the validator processes a fraudulent or a malicious transaction.



A notary license verifies the identity of the person formally, a notary license is released by the Federation / Government after extensive verification. The identity of the validator is kept for cross-referencing with the notary data and blockchain data

Parity supports a Proof-of-Authority consensus engine. Proof-of-Authority is a replacement for Proof-of-Work, and can be used for private or centralized chains. PoA as tested by a Kovan test network improves outdated economic models.

1. **FEDERATION:** Latin: foedus, foederis, covenant, **union** of partially self-governing states or regions under a central (federal) government
2. A league or confederacy. Individuals / groups retain **AUTONOMY**
3. A federated body formed by nations, states, and... **unions**
each retaining control of internal affairs

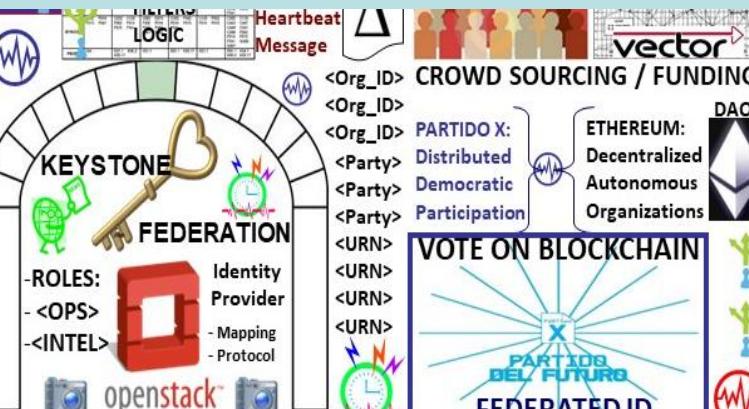
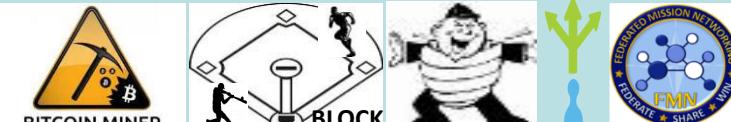
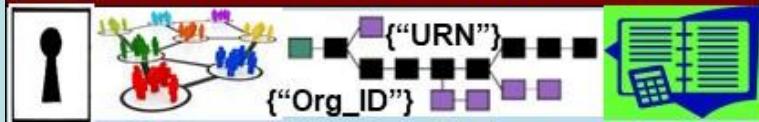
Federation
Gateway
Net joins, drops, splits, merges, moves
Agile, adhoc NETOPS Vs acquisition preserves the **CHANNEL**



DISTRIBUTED AUTONOMOUS ORGANIZATIONS DAO

Heart Beacon Cycle

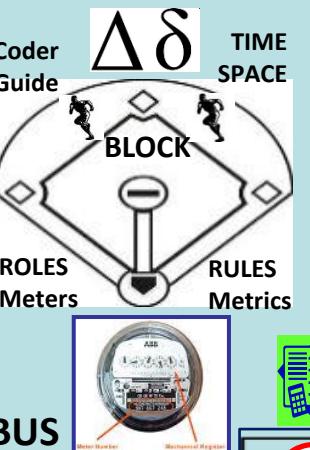
FEDERATE / TRADE FEDERATIONS



BTC NG NEX GEN / Heart Beacon Cycle 13/573,002

KEY BLOCKS:

- NO CONTENT = NULL
- LEADER ELECTION



MICRO BLOCKS:

- ONLY CONTENT
- NO CONTENTION



FROM	GC00-A	TAB	ASAS	AMPC05	AFAT05	WCR
GC00-A						
GC00-B						
GC00-C						
GC00-D						
GC00-E						
GC00-F						
GC00-G						
GC00-H						
GC00-I						
GC00-J						
GC00-K						
GC00-L						
GC00-M						
GC00-N						
GC00-O						
GC00-P						
GC00-Q						
GC00-R						
GC00-S						
GC00-T						
GC00-U						
GC00-V						
GC00-W						
GC00-X						
GC00-Y						
GC00-Z						
GC00-A						
GC00-B						
GC00-C						
GC00-D						
GC00-E						
GC00-F						
GC00-G						
GC00-H						
GC00-I						
GC00-J						
GC00-K						
GC00-L						
GC00-M						
GC00-N						
GC00-O						
GC00-P						
GC00-Q						
GC00-R						
GC00-S						
GC00-T						
GC00-U						
GC00-V						
GC00-W						
GC00-X						
GC00-Y						
GC00-Z						

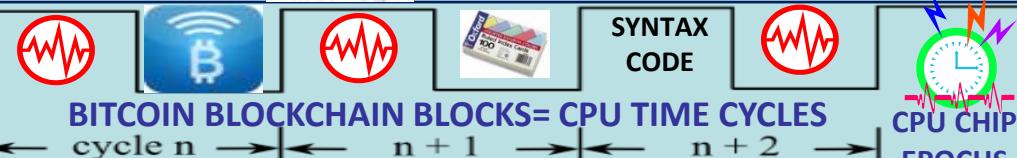
XBRIL / CDL / DAML
STOCK MIC CODES

STRUCTURED
MILITARY MESSAGE
TEMPLATE FORMS
LOGIC / FILTERS

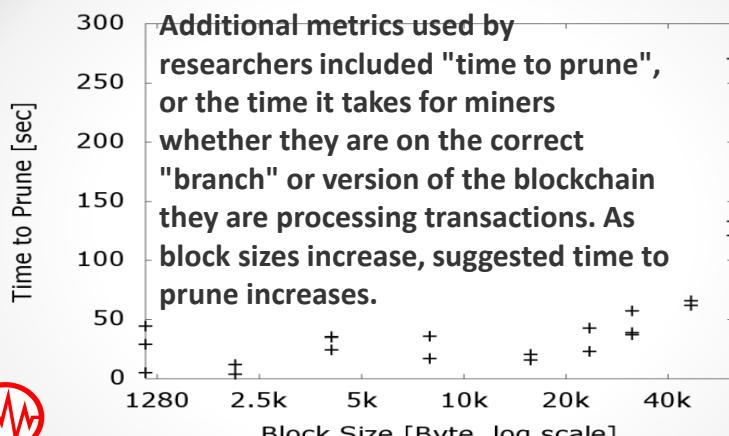


SYNTAX
LEXICON LIBRARY

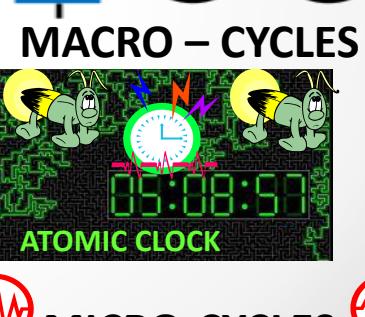
CPU CHIP
EPOCHS



long exponential intervals (10 min)



short deterministic intervals (10 sec)



MICRO-CYCLES



real-time gross settlement system,
currency exchange, remittance network

A.K.A Ripple Transaction Protocol or Ripple protocol, built on a distributed open source Internet protocol, consensus ledger and native currency called XRP. Ripple enables "secure, instant and nearly free global financial transactions of any size with no chargebacks." Ripple supports tokens representing fiat currency, cryptocurrency, commodity or any other unit of value such as frequent flier miles or mobile minutes. Ripple is based around a shared, public database or ledger, which uses a consensus process that allows for payments, exchanges and remittance in a distributed process.

Connects to receiving bank's
Ripple Connect to exchange KYC,
risk info, fees, payment details,
expected time of funds delivery

Provides information about total
costs of the transaction



Workflows are serially executed
Except first two work flow are
workflows are based on **event**
pull model



Bitcoin Address Shortener

Bitcoin Address Shortener is an Android app that you can use to shorten those lengthy bitcoin addresses!

Simply enter a long Bitcoin address to have it transformed into a short one, and VICE-VERSA!

You can get it for free [here!](#)

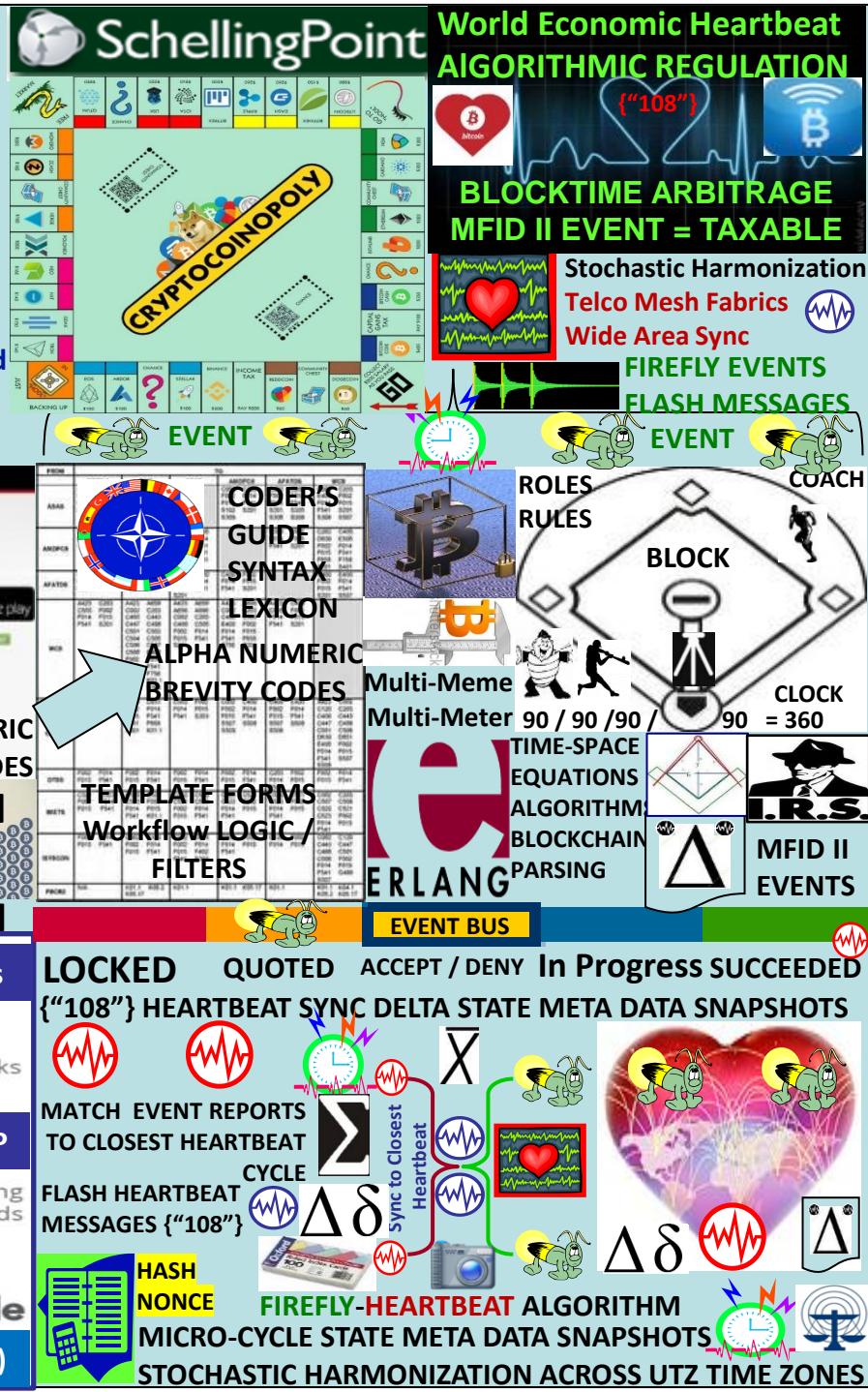
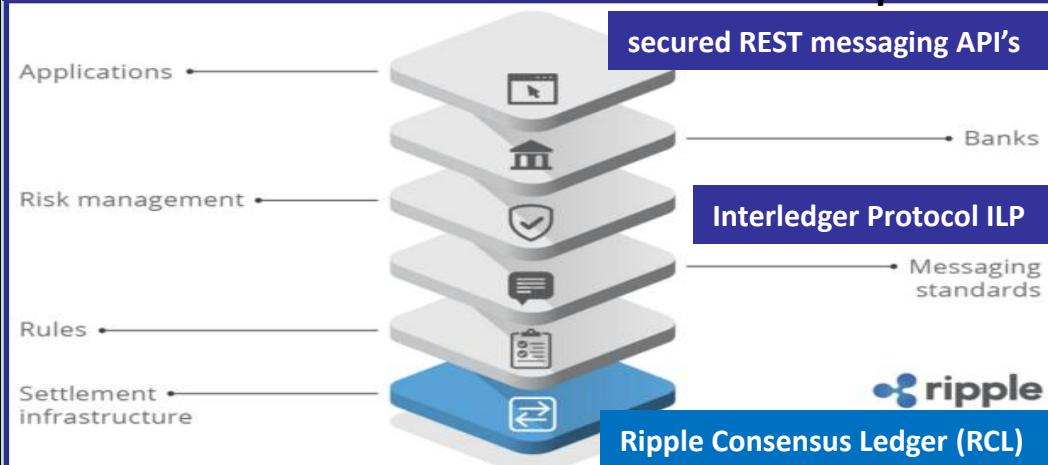
ALPHA NUMERIC BREVITY CODES A.I

To retrieve addresses us computer, use [bit.co](#)

Clock Clock adjusted 5:45 PM

Blockchain.info

Neutral transaction protocol



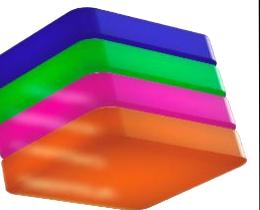


PROTON A CHAIN Virtual Machine

CONTRACT C CHAIN Smart contract

PLATFORM P CHAIN Meta Data

EXCHANGE X CHAIN Cross blockchain



Universal @names Identity / Governance / Resources / Staking

Snowball Consensus

Algorithm

preference := pizza

consecutiveSuccesses := 0

while not decided:

ask k random people preference

if >= α give the same response:

 preference := response with >=

α

 if preference == old preference:

 consecutiveSuccesses++

 else:

 consecutiveSuccesses = 1

 else:

 consecutiveSuccesses = 0

if consecutiveSuccesses > β:
 decide(preference)

EOSIO computer function emulation
NET, CPU bandwidth, RAM data
Publishing, Voting based not mining

Delegated Proof
of Stake {"Org_ID"}



coordinates validators, keeps track
of active subnets, SNOWMAN
consensus Token representation of
real-world resources (e.g., equity,
bonds) smart contract rules </URN>



DAG Acyclic Graph Parameters:

n: number of participants

k (sample size): between 1 and n

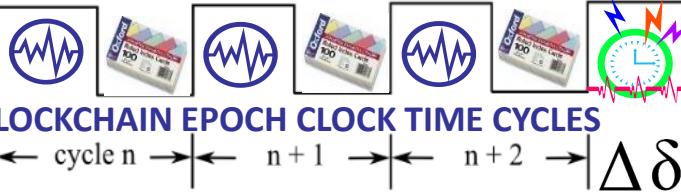
α (quorum size): between 1 and k

β (decision threshold): >= 1

ALL THINGS NET, NET OF \$\$\$

1) EPOCH TIME INTERVALS

2) SYNTAX (not) used in epochs

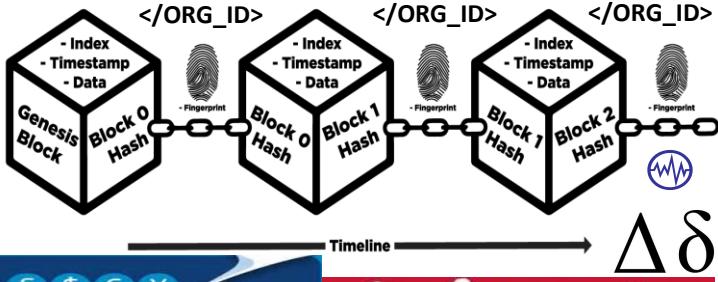


GENESIS BLOCK: "Layers" = follow on epoch time intervals

Block 0

Block 1

Block 2



SECURITY TOKEN: A DIGITAL
ASSET THAT'S BACKED UP
BY TANGIBLE ASSETS IN THE
REAL WORLD </URN>
</URN>
</URN>



"all digital currency networks, the base layer of people
generating the blockchain — "miners," "stakers,"
"witnesses," "validators," or "forgers" get paid"



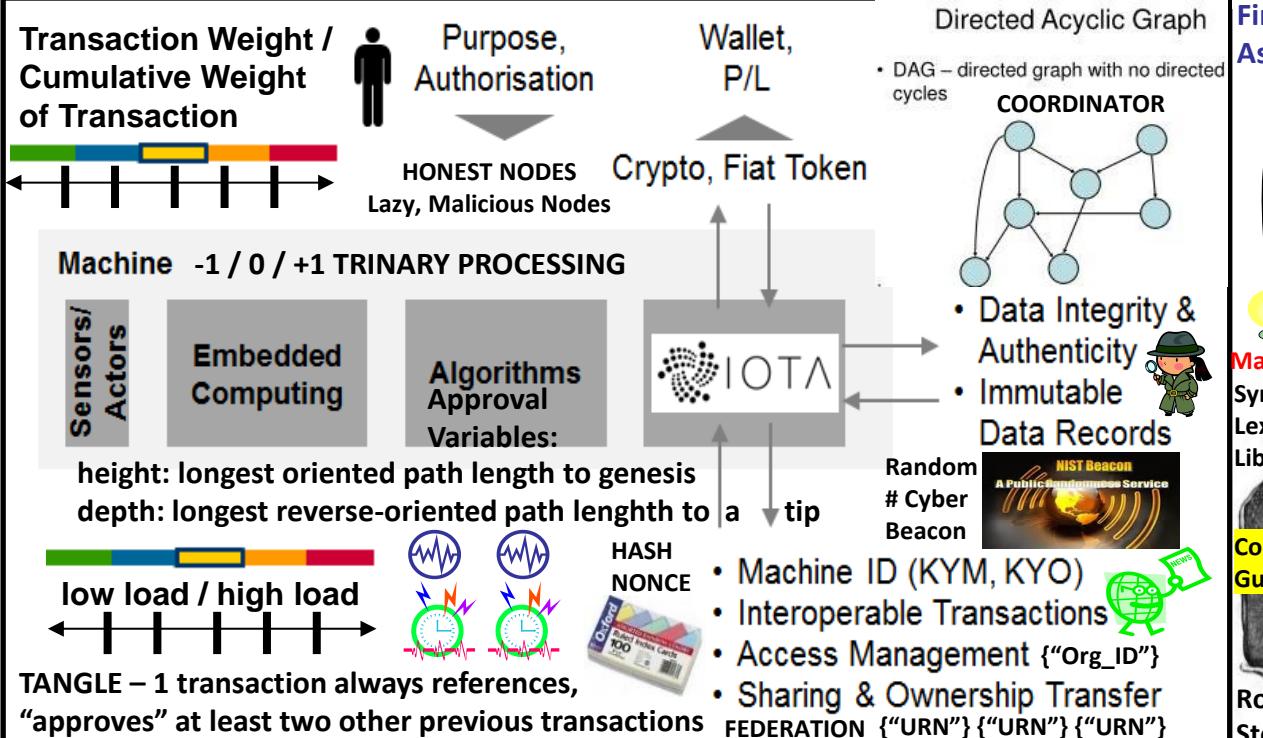


OTA: Internet Of Things IOT distributed ledger
with microtransactions without fees

Tangle, a directed, ASYNCHRONOUS acyclic graph (DAG) for storing transactions

Contrary to Blockchains, consensus is no longer decoupled, It is an intrinsic part of the system for decentralized, self-regulating peer-to-peer network. Transfer value without fees

The iota network is ASYNCHRONOUS. In general, nodes do not necessarily see the same set of transactions. The tangle may contain conflicting transactions. The nodes do not have to achieve consensus on which valid transactions have the right to be in the ledger, meaning all of them can be in the tangle. However, in the case where there are conflicting transactions, the nodes need to decide which transactions will become orphaned. Nodes use the tip (unapproved transaction) selection algorithm to decide between two conflicting transactions. GHOST protocol main ledger = tree





ZEPPELIN

ZEPPELIN OPEN, GLOBAL ECONOMY

OpenZeppelin open framework of reusable, secure smart contracts in the Solidity language

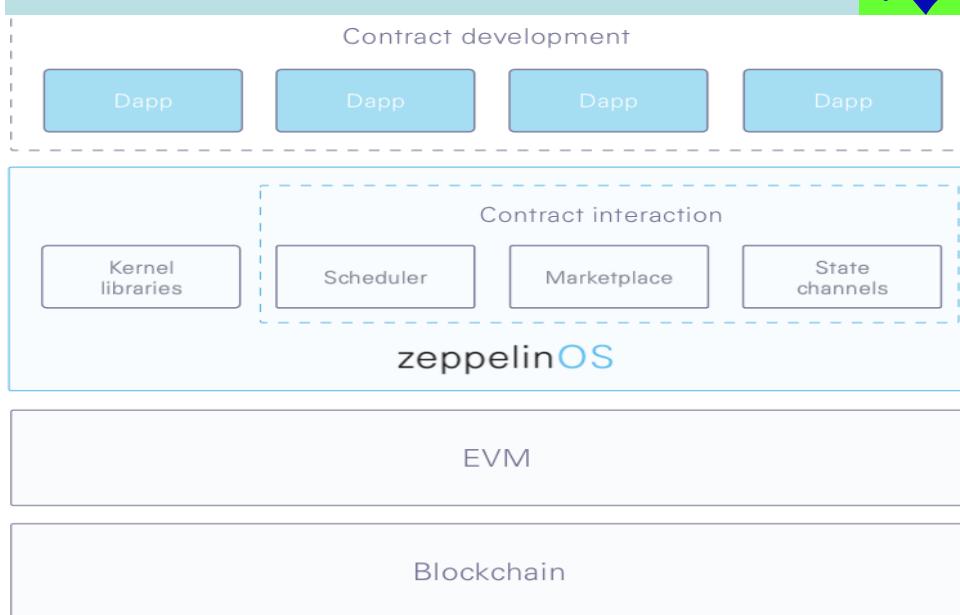
zeppelinOS, operating system for smart contracts
“the rate of innovation in building decentralized applications is limited by the manual and duplicative efforts developers must make to ensure basic usability and security.”

ZEPPELIN / zeppelinOS Common Functionality:

zeppelinOS Kernel common set of functions for smart contracts requesting services from the OS rather than re-implementing them from scratch. Functions will be available as an on-chain standard library of reusable contracts and functions, nspired by [OpenZeppelin](#) Libraries

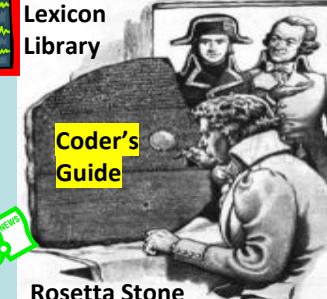
Create and customize your own ERC20 Token.

- Create capped, refundable and/or whitelisted crowdsales.
 - Create a trustless bug bounty.
 - Create pausable, ownable, balance-limited contracts.
 - Set up a token vesting or token locking contract.



 HEART BEACON CYCLE TIME – SPACE METER
ECO-ECONOMETRICS ON THE BITCOIN BLOCKCHAIN

Syntax 300 + Templates



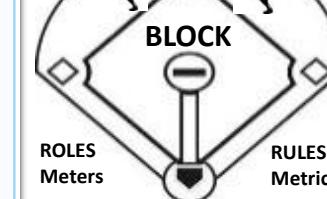
STRUCTURED DATA EXCHANGE

LOGIC / FILTERS ALPHA-NUMERIC BREVITY CODES

STOCHASTIC HARMONIZATION for TELCO Mesh Fabrics



MANAGEABLE



Micro Cycle State Snap

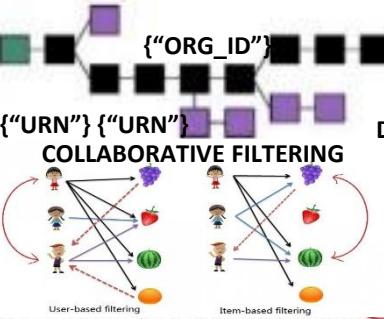


EGAAS

ELECTRONIC GOVERNMENT AS A SERVICE

Distributed digital asset registries were the first projects that used blockchain systems such as databases designed for secure storage of records on real estate property, stocks, copyright and so on. It is assumed hosting any document on the blockchain is equivalent to notarization of its content at a fixed time point.

The Heart Beacon Cycle HBC: an adaptive procedural checklist of form templates, procedures, SOP building blocks useful to form Eco-responsible trade federations Procedural template checklist items links to detailed technical, process... treatises



TEMPLATE ENGINE LANGUAGE ETF

DWYER

NAMED DATA NETWORKING, corrections

Time Series Databases

BLOCKCHAIN PARSING, SYNCHRONIZATION

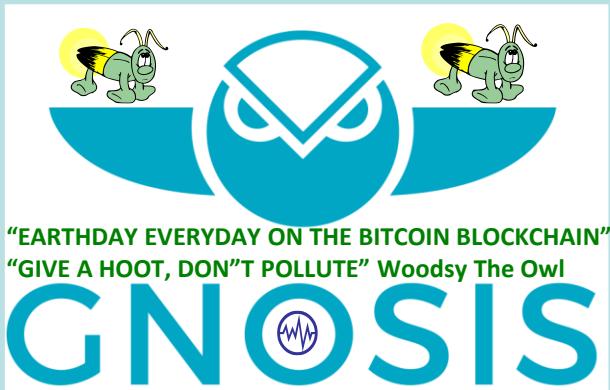


The current standard time common throughout the world is based on a 24-hour clock, with zones that are either 12 hours ahead or behind **Coordinated Universal Time (UTC)**. However, these time zones are decided upon by individual governments, without overall coordination and can even extend fourteen hours ahead UTC. **INCENTIVIZE ECO-FRIENDLY TRANSACTIONS**



The proposed **Universal Timezone System** would do away with all these different time zones. Instead, it would be the same time all over the world, all the time.





"EARTHDAY EVERYDAY ON THE BITCOIN BLOCKCHAIN"
"GIVE A HOOT, DON'T POLLUTE" Woodsy The Owl

GNOSIS

Gnosis Wisdom (WIZ) pay platform fees in Services layer, Wiz subsidize other participants fees, provide initial subsidies for markets, or market trading.

WIZ pegged to \$1 USD worth of fees. WIZ acts as coupon for \$1 of Gnosis

Gnosis tokens (GNO) generate Wisdom token s(WIZ) via smart contract

GNO token holders agree to "lock" tokens in a smart contract (30-365 days). A multiplier is added for longer lock durations. Smart contract determines selected lock duration and applies that duration to a formula regulating supply of WIZ tokens currently in use. Once users execute the contract, 30% of their WIZ are distributed for use, the remaining 70% is distributed proportionally over the locked duration. When lock duration expires, the locked GNO ceases to generate WIZ & GNO is freely transferable

The current standard time common throughout the world is based on a 24-hour clock, with zones that are either 12 hours ahead or behind Coordinated Universal Time (UTC). However, these time zones are decided upon by individual governments, without overall coordination and can even extend fourteen hours ahead UTC.



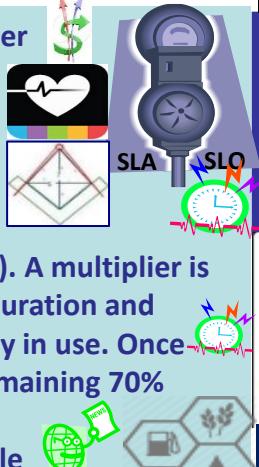
The proposed **Universal Timezone System** would do away with all these different time zones. Instead, it would be the same time all over the world, all the time.

"Our mission is to build an accessible prediction market platform enabling free flow of useful information / the "Google" of Customized Information Searching"

Futarchy PREDICTION MARKETS
GnosisAMA

Gnosis trading interface alpha
WIZ token fee payment
INFORMATION ARBITRAGE ECONOMICS

TERRACYCLE Price Oracle



THE TERRA (TRC)

Trade Reference Currency



\$0.49 USD
0.001076 BTC

MICRO PAYMENTS
Bitcoin



Demurrage Fees

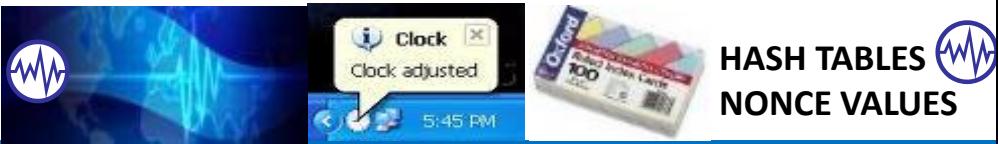


Firefly inspired Heartbeat Synchronization nodes strive to sync in a distributed system. Nodes generate periodic "heartbeat" events approximately at the same time. It differs from classical clock sync in that nodes are not interested in counting cycles to agree on the ID of the current clock cycle. There is no requirement to sync during a cycle length in real time as long as length is bounded & all nodes agree eventually"

Bitcoin Classic seeks to mitigate the problem of more transactions, which are causing transaction backlogs and increased transaction costs, by increasing the block size - the number of kilobytes in a block of transactions - from 1MB to 2MB.



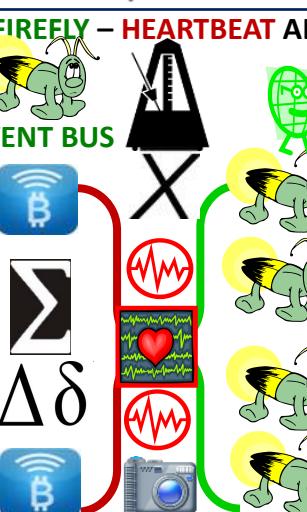
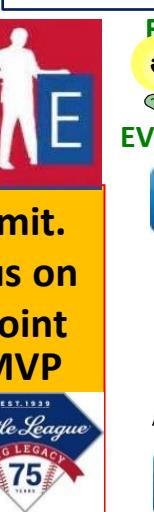
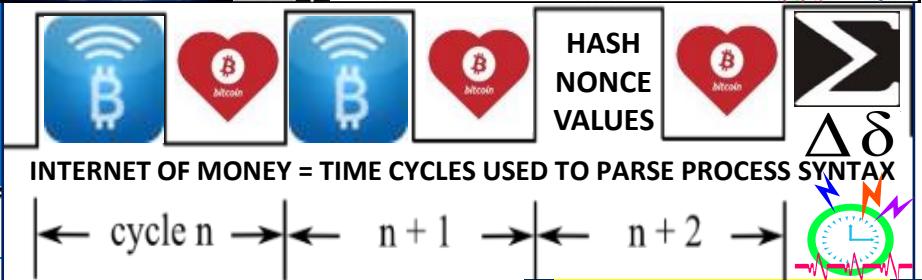
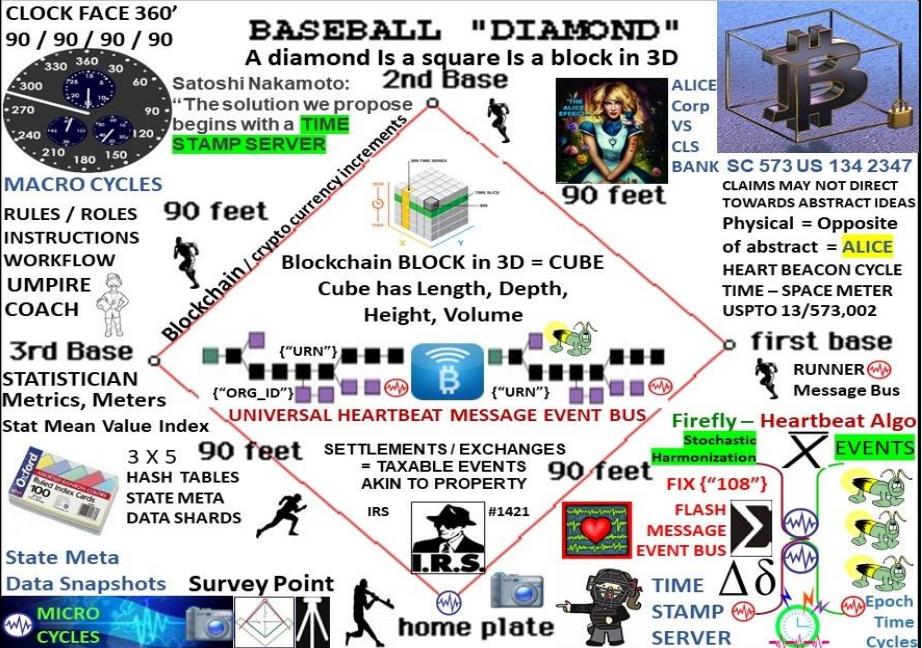
ALL THINGS INTERNET FORMED W 1) TIME EPOCHS 2) SYNTAX



BitPay Core: limits: 1) block size 'hard limit' adjusted on a regular basis coinciding with difficulty adjustments, 2) miner set 'soft limit' like focal points in Unlimited.



Bitcoin Unlimited: absence of a hard-coded block-size limit.
Users manually set limits on their own nodes; Consensus on a limit expected to emerge naturally at Schelling focal point
Unlimited introduces a level of democracy into MVP development, management of the implementation, .
the community votes on changes.



Microsoft Blockchain modular framework:
choose combination of tech best fits Biz domain

AZURE: Core/Kernel/Universal Protocol

Fabric Tier consortium node CryptoDelegate in VM or UTXO Adapter, (Azure, AzureStack, AWS..)

Unspent Transaction Output protocols UTXO

Crypto Tokenized Assets Digital Bearer Bonds
unique identity for owned artifacts

Utility Cryptlets encryption, time & date events, external data access, authentication “CryptoDelegate” / adapter

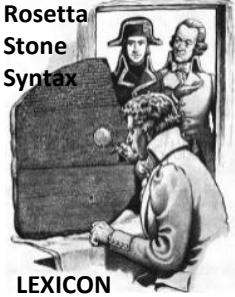
Blockchain middleware: identity and operations management, data, intelligence services like analytics and machine learning. New middleware works with existing Azure services, like Active Directory and Key Vault

Blockchain Fabric: Blockchain Gateway Services [Interledger](#)-like services to allow for SmartContracts and tokenized objects to be passed between different ledger systems.

Data Services - key data services like distributed file systems (IPFS, Storj, etc) of off-chain data referenced by public keys.

Auditing, Advanced Analytics, Machine Learning, Dashboarding services for SmartContracts, Blockchains, Consortia, Regulators

Utility and Contract. Developers can discover and enlist Cryptlets into their SmartContracts to create more robust and trusted transactions. Contract Cryptlets are full delegation engines that act as SmartContract surrogates off the chain. Cryptlets provide execution logic and securely store data in the Smart Contract

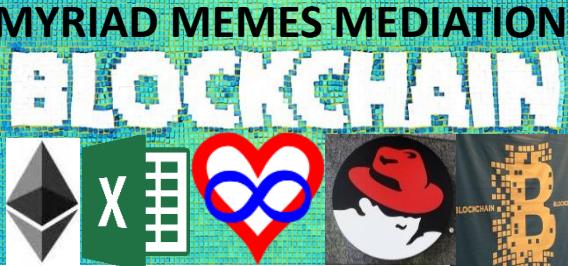
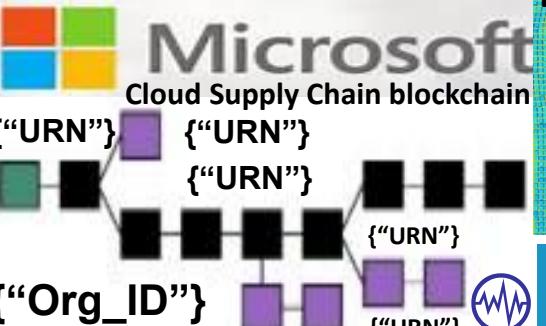


ALPHA NUMERIC	
BREVITY CODES	
SYMBOL CODES	
STRUCTURED MILITARY MESSAGE	
TEMPLATE FORMS	LOGIC / FILTERS

The current standard time common throughout the world is based on a 24-hour clock, with zones that are either 12 hours ahead or behind Coordinated Universal Time (UTC). However, these time zones are decided upon by individual governments, without overall coordination and can even extend fourteen hours ahead UTC.



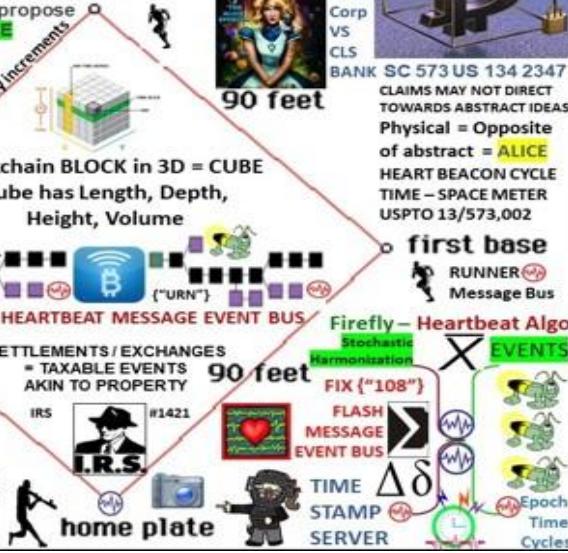
MULTI-MEME MULTI-METER



OFF-SITE
OFF-PAGE
CONNECTOR



BASEBALL "DIAMOND"

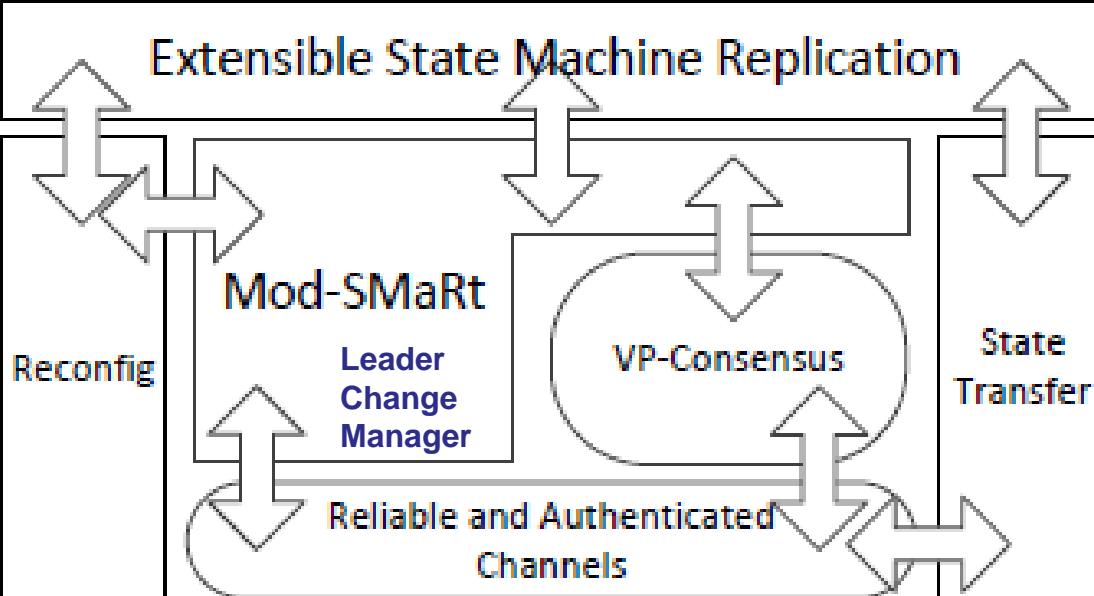


IoT
Microsoft Orleans

TIME-SPACE EQUATIONS ALGORITHMS BLOCKCHAIN PARSING ERLANG

Byzantine Fault-Tolerant State Machine Replication

BFT-SMART dynamic distributed system processes are divided in two nonintersecting subsets: replicas and clients. Each system process has a unique identifier. During dynamic system execution, a sequence of views is installed to denote the reconfigurations due to replicas joins and leaves. A view is composed by a set of replicas identifiers.



Modularity is achieved using a set of building blocks (or modules) containing the core functionality of BFTSMART. Blocks are divided in three groups: communication system, state machine replication and state management.

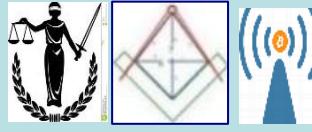
BFT-SMART needs an eventually synchronous system

Total order multicast is achieved using the Mod-SMaRt protocol and with the Byzantine consensus algorithm Clients send requests to all replicas in cv, and wait for replies. replicas store each batch of ordered requests to a (stable) log and, periodically, take snapshots of the application state and store it in stable memory.

USPTO 13/573,002 HEART BEACON CYCLE TIME-SPACE METER

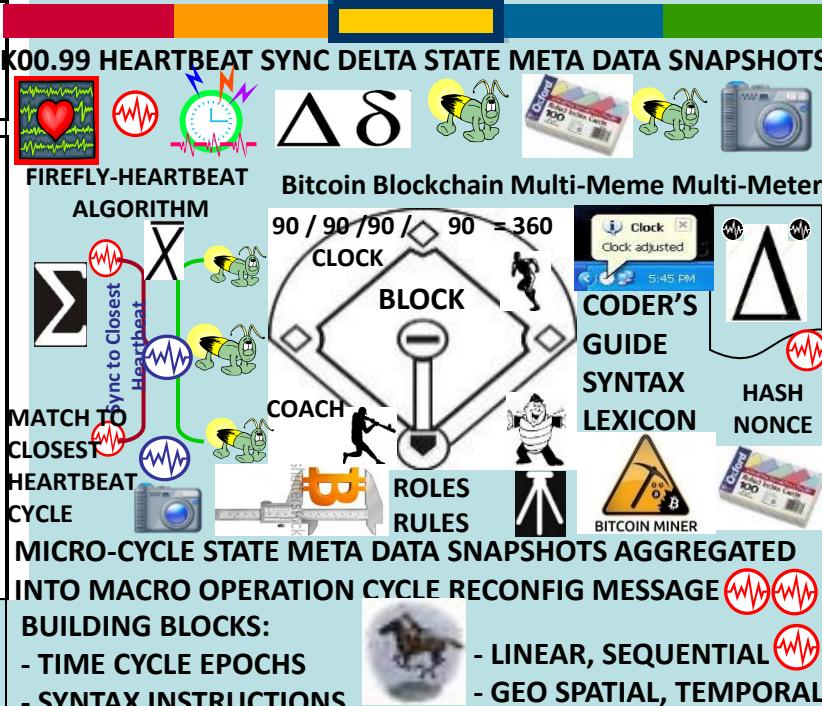
US Ct ALICE CORP V CLS BANK

PHYSICAL = OPPOSITE OF ABSTRACT

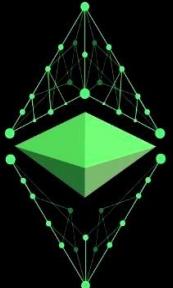


DERIVED FROM BATTLEFIELD DIGITIZATION DISTRIBUTED AUTONOMOUS ORGANIZATION DAO SYSTEM OF SYSTEMS

**FEDERATED ID / ORGANIZATIONAL IDENTIFIER {"ORG_ID"}
ADDS, JOINS, DROPS, MOVES TO / FROM DAO
CHANGES IN STATE VIEWED IN "APPLIQUE' OVERLAY VIEWS**



Firefly inspired Heartbeat Synchronization nodes strive to sync in a distributed system. Nodes generate periodic “heartbeat” events approximately at the same time. It differs from classical clock sync in that nodes are not interested in counting cycles to agree on the ID of the current clock cycle. There is no requirement to sync during a cycle length In real time as long as the length is bounded and all nodes AGREE ON IT EVENTUALLY”



ETHER: Compensate Resource Contribution

Gas: price to
Run contract
transactions

ethereum

Casper is a security-deposit based economic consensus protocol. Nodes = "bonded validators" place security deposit (an action called "bonding") If a validator generates an invalid action, account deposits are forfeited along with consensus privilege. Use of security deposits address "nothing at stake" problem; that behaving badly is not expensive. Casper is an **EVENTUALLY CONSISTANT** blockchain-based consensus protocol. CASPER favors availability over consistency



Ether hedged against
other crypto / FIAT
currencies price changes

Firefly - Heartbeat synchronization: nodes in a distributed system generate periodic, local "heartbeat" events approximately at the same time with a goal of all nodes starting / ending cycles at the same time... **EVENTUALLY**





core blockchain code written in Erlang, for distributed, fault-tolerant, soft real-time and highly available non-stop applications.

ERLANG API FOR BLOCKCHAIN



ORACLES: crucial feature for most contracts, whether encoded as text or as code, is the ability to refer to values from the environment. æternity Oracle Machine provides real-world data to the blockchain. Each user can ask questions about the environment. Anyone can answer. Consensus mechanism invoked in case of disagreement.

MIT-licensed modules for easy implementation in blockchain consortiums. Free and open access for developers build on the æternity platform.

CROSS – CHAIN ATOMIC SWAPS

AE Tokens AE are access tokens to the æternity network and act as a unit of account for the resources spent on æternity.



Aeons: energy for applications implemented on the platform.

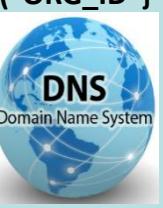
ACCOUNTS & IDENTITY: æternity's accounts are permission-less, but allow customization via schema.org's semantic web scheme. Create & own (**federated group**) / individual identities on the æternity network



("ORG_ID")

("ORG_ID")

NAMES (DNS) In the vein of Aaron Swartz' work and Namecoin, æternity features an easy to use name system, that is both decentralized and secure, while still supporting human-friendly, memorable names. The blockchain's state includes a mapping from unique human-friendly strings to fixed-size byte arrays, that are individually customizable.



Firefly Heartbeat Sync nodes strive to sync in a distributed system. Nodes emit periodic "heartbeat" events at approximately the same time. No need to sync during a cycle as long as the cycle length is bounded & nodes eventually agree

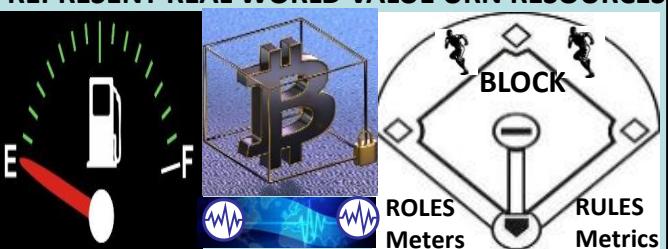
AETERNITY CROSS-CHAIN ATOMIC SWAPS CORRESPOND TO HEART BEACON CYCLE'S USE OF BATTLEFIELD DIGITIZATION DERIVED HEARTBEAT SYNC DELTAS



Terra Trade Reference Currency TRC "world currency" Bernard A. Lietaer Belgian economist proposed 1991 Basket of 9-12 most important commodities. Public issued demurrage fees for storage, shipping, handling

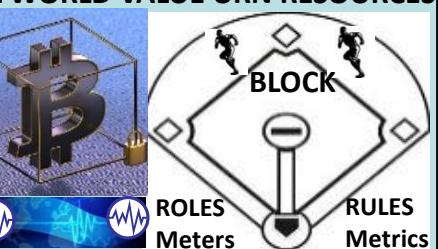
TOKENS REPRESENT REAL WORLD VALUE URN RESOURCES

ETHEREUM USES GAS GUAGE MEME INDICATING THRESHOLD MET / NOT MET



HBC's PRIMARY USE CASE IS TO ORGANIZE INDIVIDUALS IN TRADE FEDERATION GROUPS RE-USING BATTLEFIELD DIGITIZATION / ARIN Organizational Identifier Org_ID for Ecosphere friendly trade

Federation Gateway
("ORG_ID")

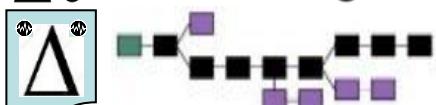


ARIN
American Registry for Internet Numbers

HYPER LEDGER OPEN SOURCE BLOCKCHAIN

Core APIs, & SDKs

$\Delta\delta$ Shared Ledger



HEART BEACON CYCLE
TIME – SPACE METER
USPTO 13/573,002

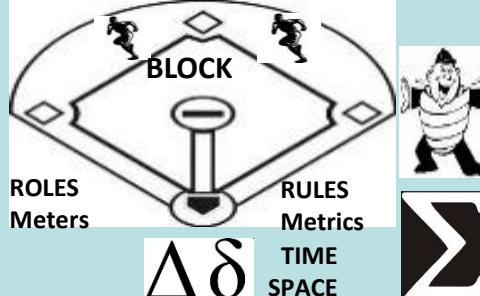
FEDERATION
Federation Gateway

METRICS ("Organization ID")
METERS

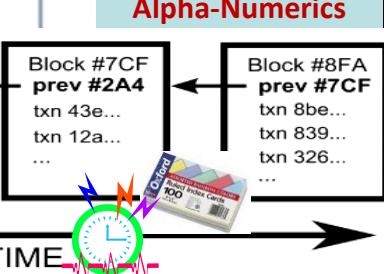
RESTFUL SYNC DELTA
CHANGE MANAGEMENT
MICRO-MACRO CYCLE



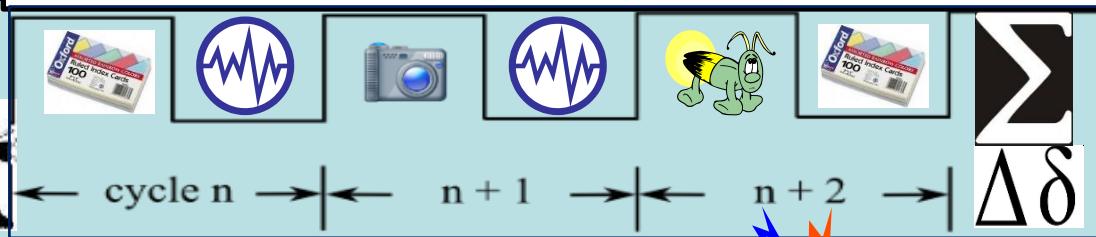
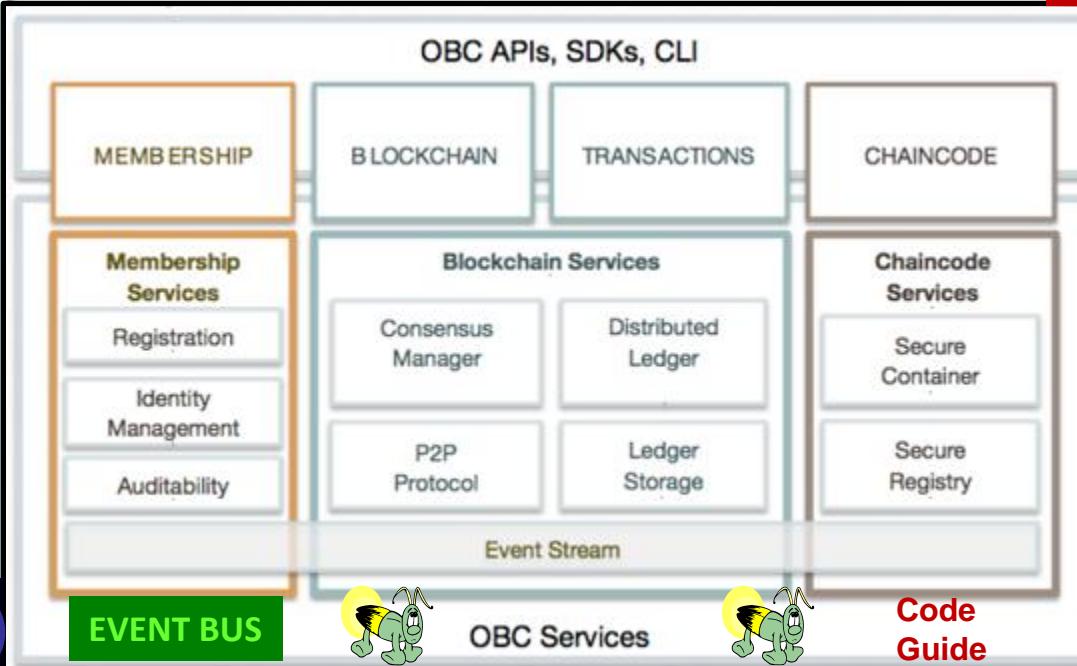
BLOCKTIME ARBITRAGE



Code execution environment, ledger data structures, modular consensus fwk & algos, and modular membership services, modular storage and event fwks, network peers

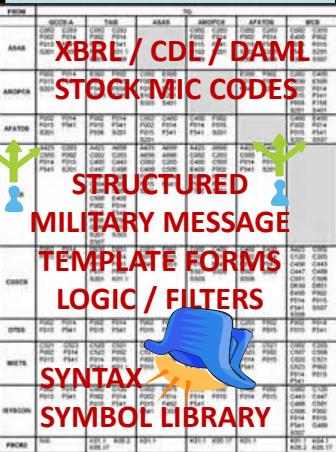


Alpha-Numerics



MICRO-MACRO CYCLE SCHEDULE

ROSETTA STONE



300 + MESSAGE
TEMPLATES
USE CASES / GROUPED
DATA TRANSACTIONS
Alpha-Numeric Data
Element ID -- #'s are the
UNIVERSAL LANGUAGE

HYPER LEDGER USES
JSON ("tag") / YAML
Text indentation –
UNIVERSAL LANGUAGE
= ALPHA-NUMERICS

FFIRNS
FFUDNS



"All decentralized, blockchain-based networks are DAOs, or decentralized autonomous organizations" Bitcoinist

“A DAO can be summed up as an organization of people who communicate with each other via a “network protocol,” which is to say that they communicate with one another via a ruleset”

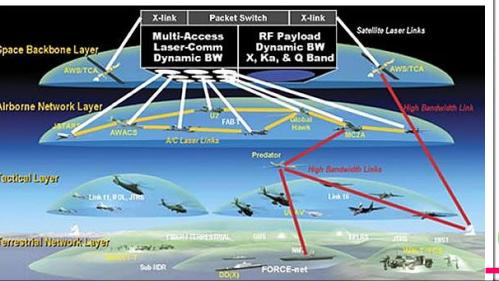
[LINK](http://bitcoinist.net/how-dash-dao-work/) <http://bitcoinist.net/how-dash-dao-work/>

"all digital currency networks, the base layer of people generating the blockchain — "miners," "stakers," "witnesses," "validators," or "forgers" — all get paid to do so" "consensus," or an agreement upon what the rules should be; and second, the execution of said rules.

“Its makeup is thus: the block reward is divvied up in three parts. The first 45 percent goes to [Dash’s miners](#). Another 45 percent goes to its Masternodes. And 10 percent is set aside to fund whatever other jobs or expenditures the Dash network deems necessary”

InstantX: To solve the problem of lag time in transactions, Masternodes are able to instantly lock transactions receive payments for their service to the network.

DAO: RAND THINK TANK TERM COINED + / - 2001



STOCHASTIC HARMONIZATION **FIREFLY-HEARTBEAT** EVENT BUS

HEART BEACON CYCLE = IMPROVEMENT TO NETWORK CENTRIC WARFARE



Firefly - Heartbeat synchronization: nodes in a distributed system generate periodic, local "heartbeat" events approximately at the same time with a goal of all nodes starting / ending cycles at the same time eventually = HB CYCLE

STATE: stored data at a given instant in time

STATE CHANNELS: blockchain interactions

which *could* occur on the blockchain, but instead get conducted off of the blockchain, without significantly increasing the risk of any participant.



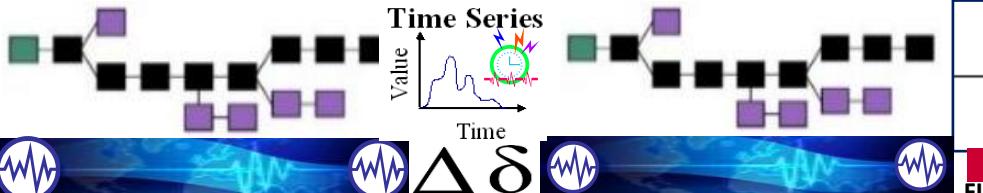
1. Part of the blockchain state is locked via multisignature or smart contract convention, so that a specific set of participants must completely agree with each other to update it.



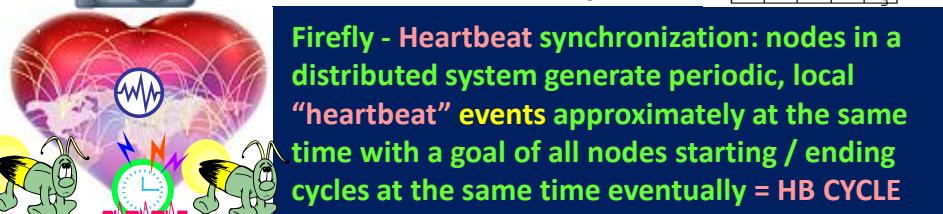
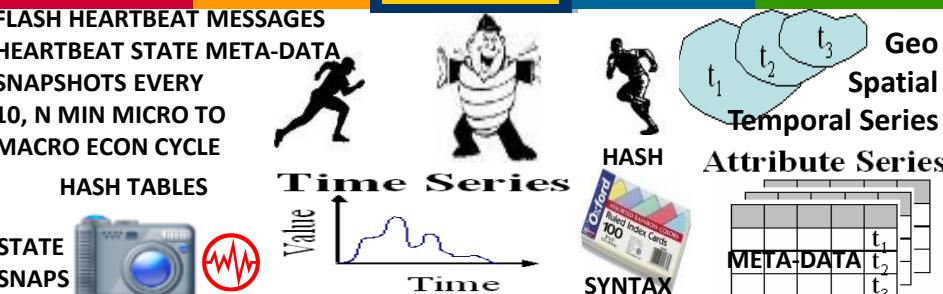
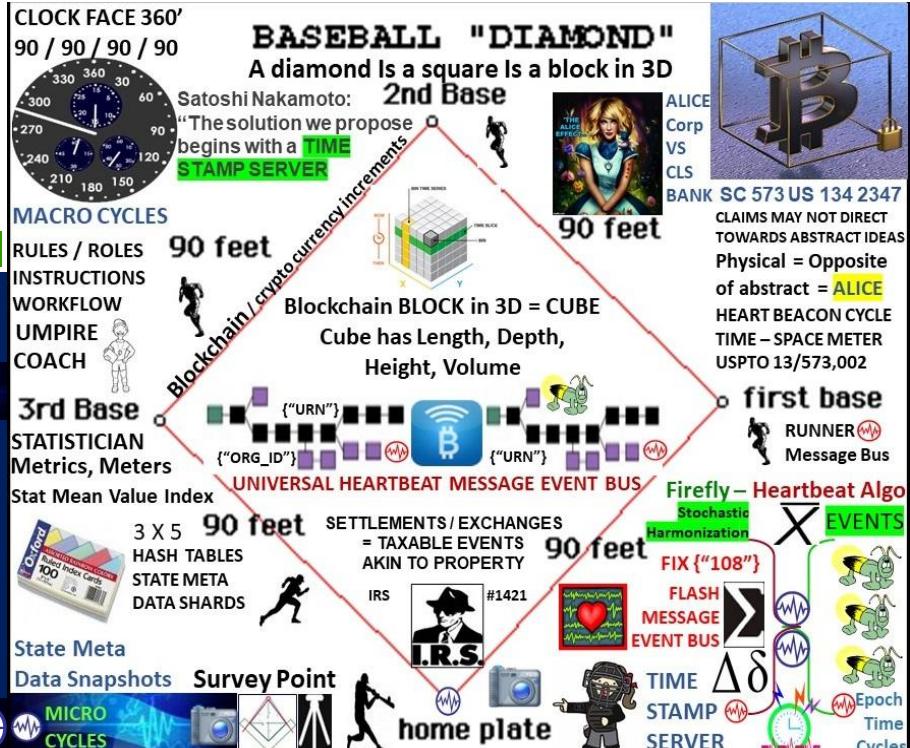
2. Participants update the state amongst themselves by constructing and signing transactions that *could* be submitted to the blockchain, but instead are made public before a new update "trumps" previous updates.



3. Finally, participants submit the state back to the blockchain, which closes the state channel.



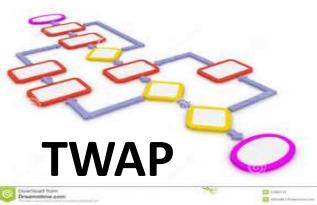
NEW UPDATES OVERWRITE THE PREVIOUS: simplest way is to have any unlocking attempt start a timer, during which any *newer* update can replace the old update (restarting the timer). When the timer completes, the channel is closed and the state adjusted to reflect the last update received. The length of the timer would be chosen for each state channel, balancing the inconvenience of a long channel closing time with the increased safety it would provide against internet connection or blockchain problems. Alternatively, one could structure channel with a financial penalty so anyone publishing an inaccurate update to the blockchain will lose more than gain by pretending later.



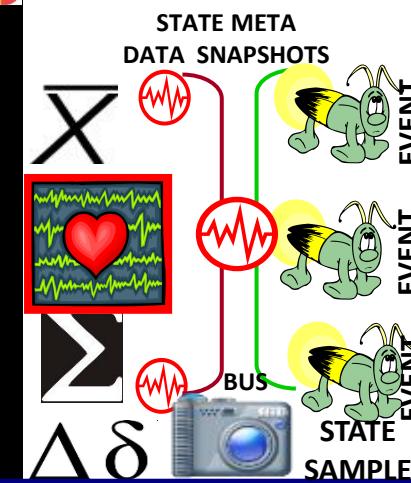
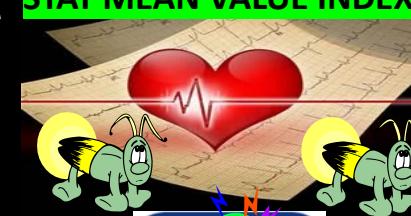
Firefly - Heartbeat synchronization: nodes in a distributed system generate periodic, local "heartbeat" events approximately at the same time with a goal of all nodes starting / ending cycles at the same time eventually = HB CYCLE

TWAP Algorithm Manages Bitcoin Price Volatility Algorithm

TWAP GOAL: provide a Time Weighted Average Price Benchmark



FIREFLY HEARTBEAT ALGO
STAT MEAN VALUE INDEX



TWAP Works To gauge trading performance, many traders in different asset classes (equity, fixed income, currency) often use average price as a benchmark. The two common ways to calculate an average are a time-weighted average price (TWAP) and a volume-weighted average price (VWAP). TWAP is the average price of a bitcoin over the course of a specified period of time i.e., Heart Beacon Cycle



The algorithm trades over a desired time, either 1, 6, 12 or 24 hours and will give you a TWAP over that time period. For example, set the TWAP algorithm to sell 12 bitcoins over 12 hours, the algorithm will sell throughout the period, aiming to get a 12-hour TWAP



VWAP is price multiplied by number of bitcoins traded, then divided by the total number of bitcoins traded during a time period. The time-weighted average price algorithm is matched to closest HB

Firefly Heartbeat Sync nodes strive to sync in a distributed system. Nodes emit periodic "heartbeat" events at approximately the same time. There is no need to sync during a cycle as long as the cycle length is bounded & nodes eventually agree. HBC's improvement is stipulating a clock cycle value e.g., 5, 10, 15..



Block-Weighted-Average-Price (B-WAP) API creates a USD price for any block in the Bitcoin blockchain, based on BNC's Bitcoin Liquid Index (BLX). Automatically appropriates blockchain transactions with a USD price or technical indicator for traders.

Key Features:

Look up any bitcoin blockchain transaction and receive back a USD value for any transaction.



Built using historic bitcoin price index - the [BNC BLX](#).

API updated every 10 min with a 2 hour delay on latest blocks (due to the nature of Block propagation to ensure avoidance of publishing rates on orphaned blocks).

All rates time-stamped in UTC.



Ability to look up by time-stamp.

Ability to look up by block-height.

Asset Classes: Digital Currencies

Get by: Block-height, Time-stamp or Transaction

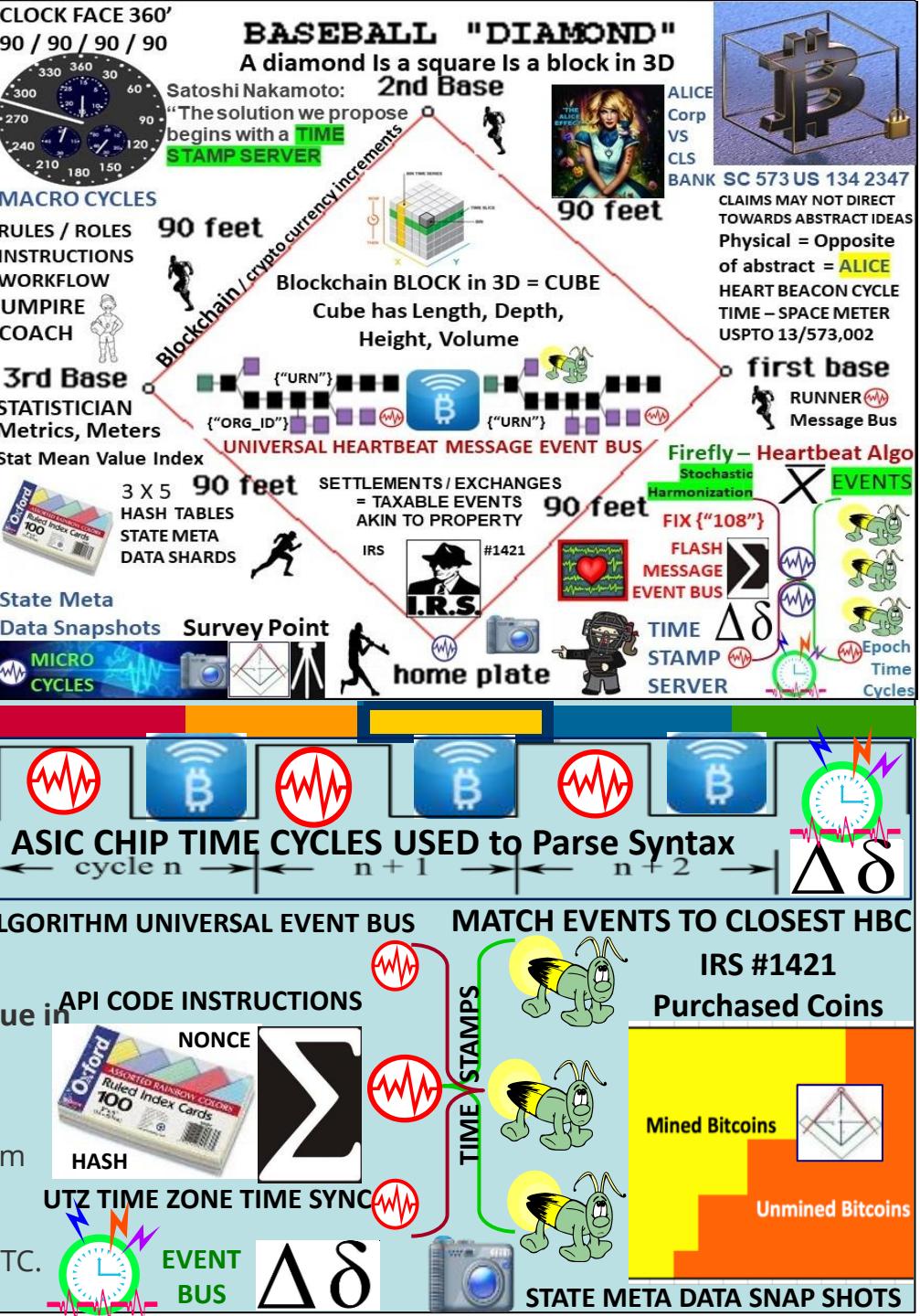
Transaction ID, Block ID, time-stamp, BWAP per block, Value in USD. BTC per transaction, bitcoin transaction fees per transaction.

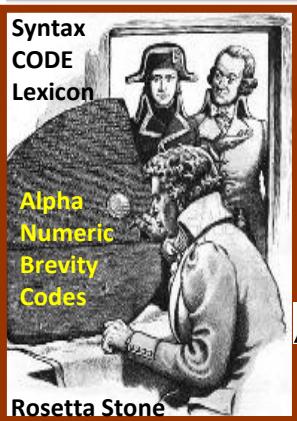
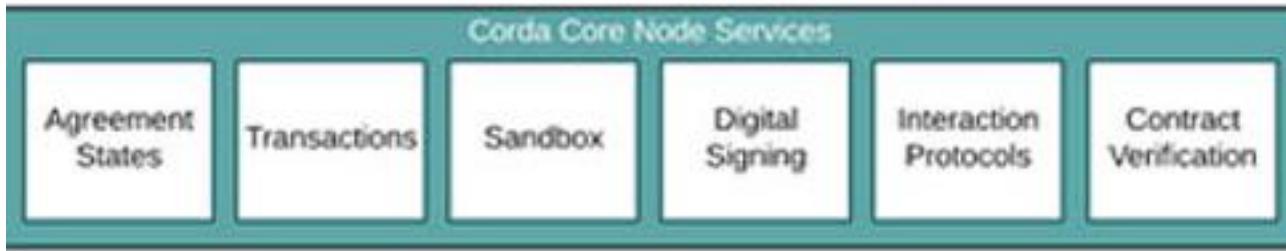
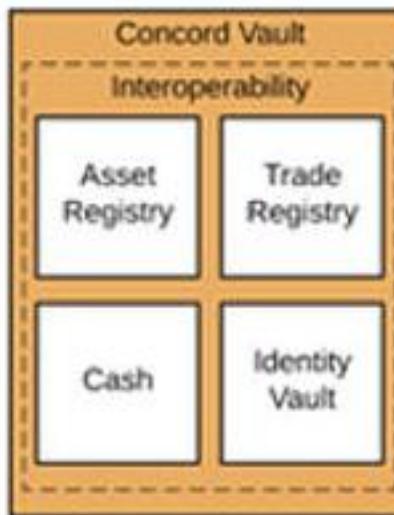
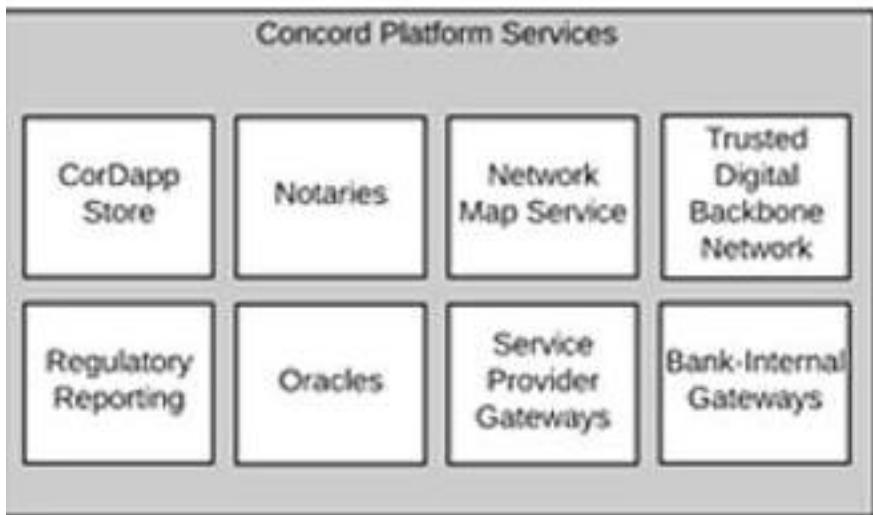
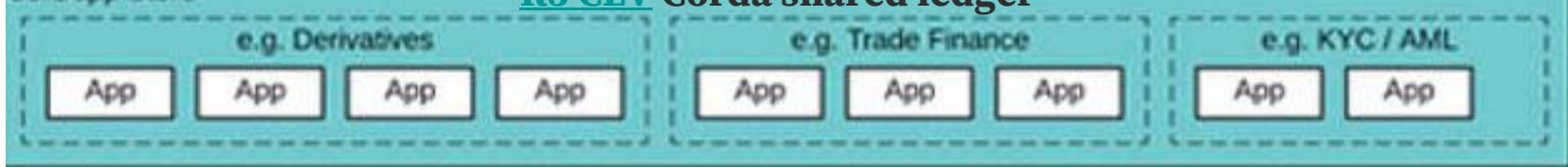
"Blocks are a measure of time":

The Bitcoin Blockchain 'B-WAP'

• Exchanges Covered: Price discovery for the B-WAP comes from utilizing the BNC [Bitcoin Liquid Index](#) (BLX) bitcoin price calculation.

• Historical Rates: This API goes back to 2010-07-17 23:14:35 UTC.





UNIVERSAL
EVENT BUS



- Choreographing workflow between firms without a central controller
- Supports inclusion of regulatory & supervisory observer nodes
- Validating transactions solely between parties to the transaction
- Supporting a variety of consensus mechanisms
- Recording explicit links between human-language legal prose documents and smart contract code

11.8 - Kinematics	
11.8.1 - Acceleration	
11.8.2 - Angular	
11.8.3 - Linear	
11.8.4 - Estimated	
11.8.5 - Estimated	
11.8.6 - Predicted	
11.8.7 - Smoothed Data	
11.8.8 - Position	
11.8.9 - Bearing Angle	
11.8.10 - Horizontal	
11.8.11 - Vertical	
11.8.12 - Vertical	
11.8.13 - Covariance Matrix	
11.8.14 - Covariance Rate	
11.8.15 - Covariance Rate	
11.8.16 - Covariance Rate	

- PROOF OF WORK
- PROOF OF STAKE
- STATE CHANNELS
- BITCOIN NEXGEN
- LIGHTNING / DASH..



XBRIL / CDE / DAML
STOCK MIC CODES

STRUCTURED
MILITARY MESSAGE

TEMPLATE FORMS

LOGIC / FILTERS

300+ Use Case Templates

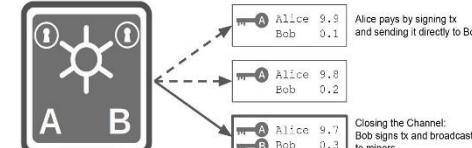




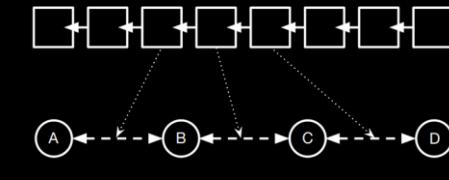
**transactions sent over / off chain
micropayment channels**

Micropayment Channels

Setup: Alice creates transaction with 10 bitcoin to a 2-of-2 multisig with Bob



LIGHTNING



Millions of Transactions. Milliseconds of Delay.

Hashed TIME LOCK contracts component for global consensus

OP_CHECKLOCKTIMEVERIFY During Macro Cycle w/ Random # BEACON



Payment channels multi-hop hub
spoke model like internet routing

FIREFLY – HEARTBEAT ALGORITHM



FIREFLY – HEARTBEAT

CLOCK FACE 360'
90 / 90 / 90 / 90



MACRO CYCLES

RULES / ROLES

INSTRUCTIONS

WORKFLOW

UMPIRE COACH

3rd Base

STATISTICIAN
Metrics, Meters

Stat Mean Value Index

3 X 5 HASH TABLES
STATE META
DATA SHARDS

State Meta

Data Snapshots

Survey Point

MICRO CYCLES

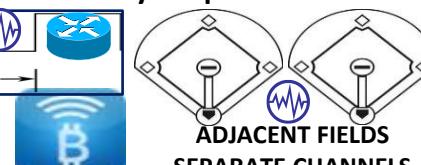
home plate

FLASH MESSAGE EVENT BUS

TIME STAMP SERVER

Epoch Time Cycles

Server nodes, miners
only keep recent blocks



Sync Delta
State Meta
Data Snaps

ADJACENT FIELDS
SEPARATE CHANNELS



EVENT REPORTING
ACROSS TIME-SPACE

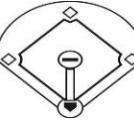
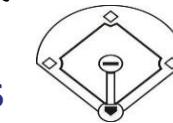


MESSAGE EVENT BUS

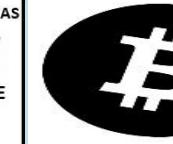


SEGREGATED WITNESS

SegWit



ADJACENT FIELDS
SEPARATE STATE CHANNELS



HASH TABLES



NONCE



SYNTAX /
SYMBOL TAGS



Digital Signature



OUT OF BAND / CHANNEL



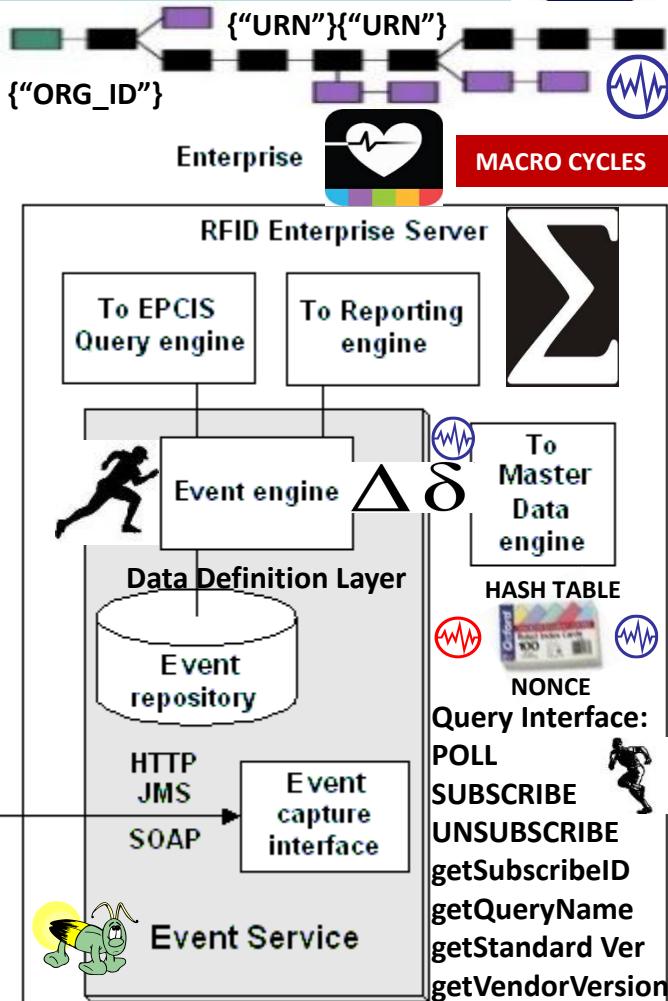
soft-fork vs a hard-fork

Segregated witness = Separated signatures

- signatures are cryptographic proofs also known as witnesses
 - moving signatures out of transactions
 - keeping a separate repository of the signatures
 - making them optional in propagation and storage
 - signature are the biggest part of transactions
 - can be implemented as a soft-fork vs a hard-fork

Electronic Product Code Information Services (EPCIS)

GS1 Standard for creating, sharing visibility event data



Core Business Vocabulary (CBV)

What identifiers of object(s) or entities / subject of the event

When date time when event took place, local time zone in effect

Where location identifier where event occurred, identifier of

location where object(s) are expected to be following the

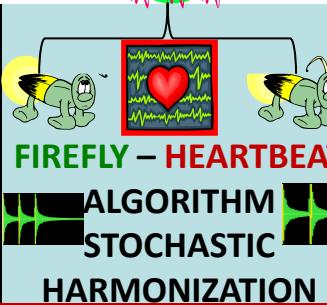
Why Information about the business context, including:
a Identifier that indicates the business step taking place



**CLOSER IS CHEAPER
CLOSER IS FASTER**



MICRO CYCLES



Proximity Wireless Sensor Networks in Combination With RFID .. on reading tag in RF-field the router sends heartbeat message

RFID Configuration TCP/IP heartbeat message

STRUCTURED DATA EXCHANGE / STRUCTURED MILITARY MESSAGES

FROM	TO									
ASAS	BATTLEFIELD DIGITIZATION NETWORK CENTRIC WARFARE									
AMOPCS	SYSTEM OF SYSTEMS BEST PRACTICE									
AFATOS	MESSAGE DATA SETS									
“ORG” “URN” “UUID”	TEMPLATES / FORMS									
CSSCS	ROLES / RULES (“FILTERS”)									
DTSS	NETOPS SOP									
IMETS	CASES SYNTAX LEXICON CODE GUIDE									
ISYSCON	1st Compiler DESIGN Still the BEST									
names	NIA	K01.1	K05.2	K01.1	K01.1	K05.3	K01.1	K01.1	K04.1	K04.1

!st Compiler DESIGN Still the **BEST**





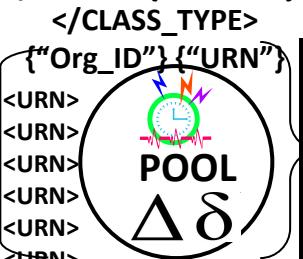
TERRA TRC



ECONOMIC HEARTBEAT

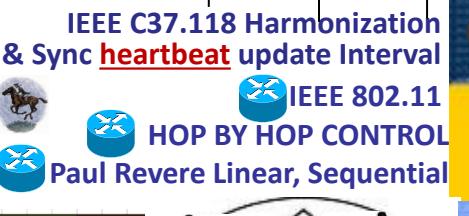
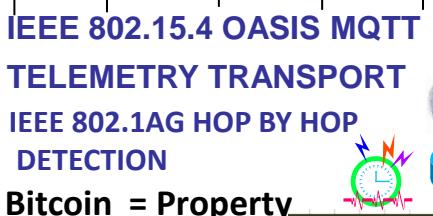
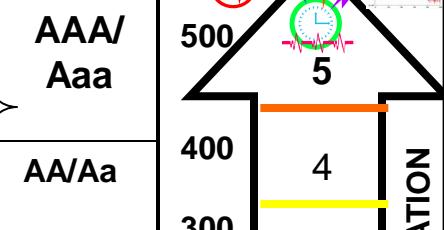
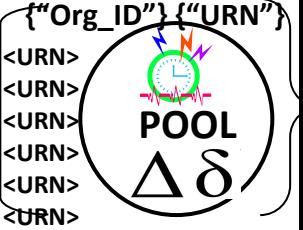
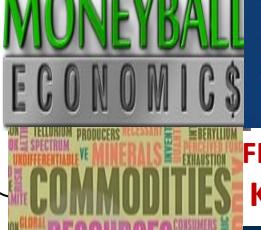
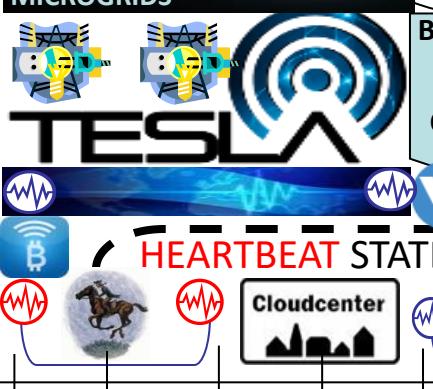
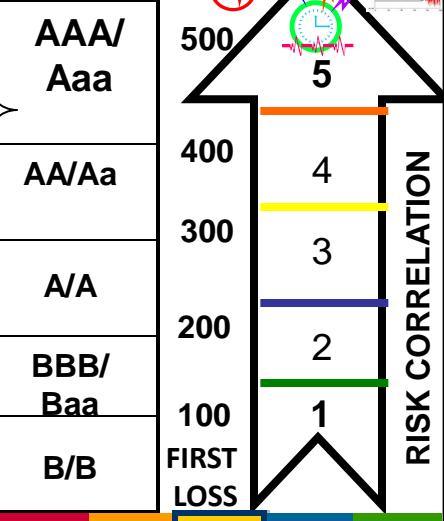


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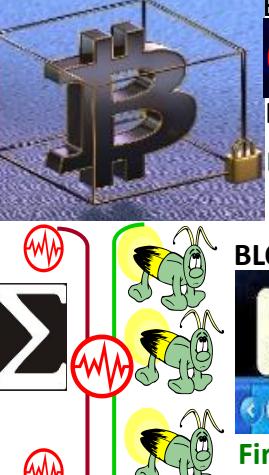


HB MSG </108>
FIX PROTOCOL
INDUSTRY-DRIVEN MESSAGING STANDARD

LAST LOSS



PROCESS BY </PRECEDENCE>
SonarMaps ID_Hops

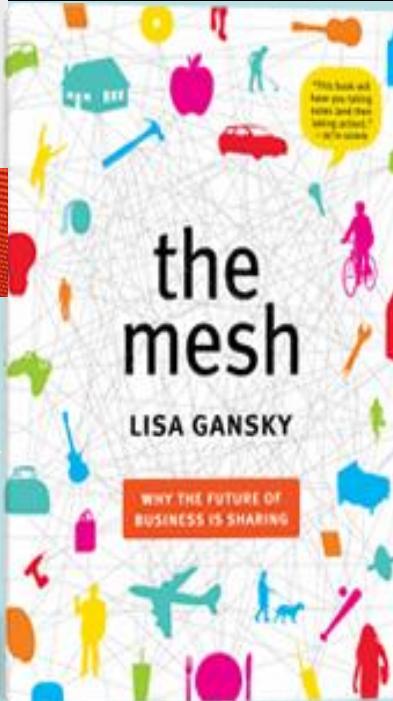
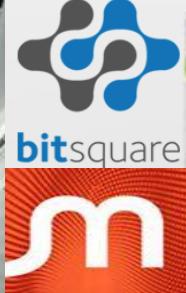


Demurrage Charges
vector

Heartbeat Snapshots
MICRO CYCLES
Heartbeat



Decentralized Exchange Meets Decentralized Crowdfunding



A decentralized exchange called BitSquare has [launched a campaign](#) on the decentralized crowd funding app [Lighthouse](#). Its campaign is simultaneously an example of how powerful decentralized crowd funding is, and how difficult running a successful campaign is... segue to the MESH ECONOMY

The current standard time common throughout the world is based on a 24-hour clock, with zones that are either 12 hours ahead or behind **Coordinated Universal Time (UTC)**. However, these time zones are decided upon by individual governments, without overall coordination and can even extend fourteen hours ahead UTC.



Autonomous Device Coordination Framework



Rules of engagement
FEDERATION AGREEMENTS
PROCEDURAL TEMPLATE

- Registration
- Authentication
- Proximity based rules
- Consensus based rules
- Contracts
- Checklists

FEDERATION

<UUID> <ORG_ID> <URN>

LDAP DIRECTORY

Physical proximity

Social proximity

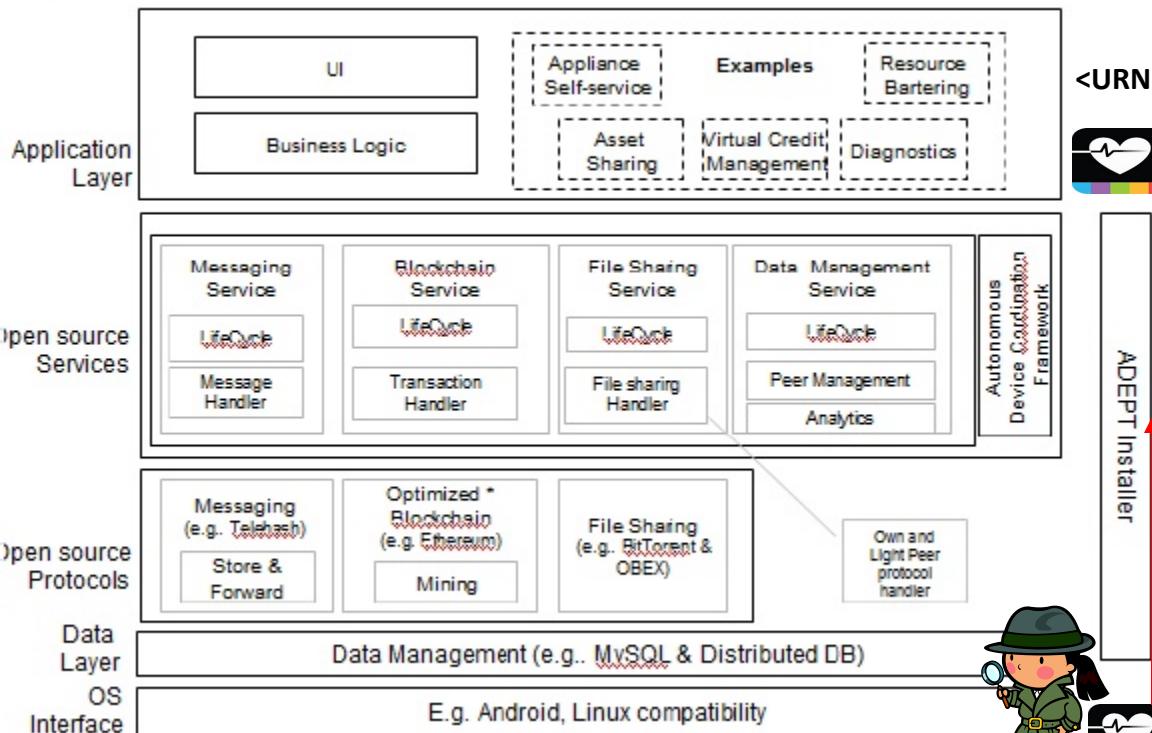
Temporal proximity

Agreements

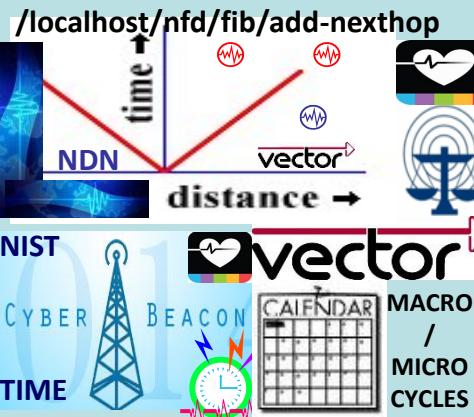
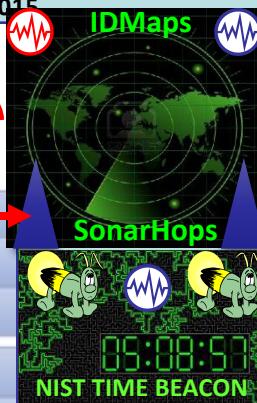
Payments

Barter

ADEPT Standard Peer Architecture – Logical View



* Could be optimized to hold the complete blockchain. Function of ADEPT Installer

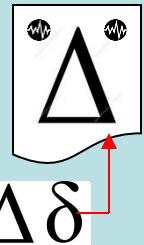


PAYMENTS BASED ON GEO-SPATIAL TEMPORAL METRICS / METERS
<URN> DESCRIBES COMMODITIES ETC BY UNIFORM RESOURCE NAME BY </INTEREST>>



ASSET SHARING WITHIN FEDERATION

BUSINESS LOGIC = WORKFLOW <XML_Wf>



FILE SHARING = CYCLIC SYNC DELTA LEDGER / DOCUMENT REFRESH

OPEN SOURCE = HBC = PROTOCOL AGNOSTIC

DATA LAYER: STATE META DATA TIME STAMPED BY <UUID><ORG_ID><URN> & DATA PREPPED & "DATA WRANGLLED PRIOR TO FUSION CENTER ENHANCED ANALYTICS / PROTECTS BANDWIDTH



Three ideas combined

HOW TRUTHCOIN WORKS:

1) Tradable Reputation

- Abstract Corp exists to prove consistency within / across TIME
- Collects \$ to power the mechanism.

2) SVD Cross-Validation

- Statistical technique: seeks importance.
- Gleans truth, measures conformity.



3) Strategic Use of TIME

- Funds can be ‘locked’ across time.
- Yet info-search-costs constantly fall.
- Net effect: time penalizes attackers only.

2. A kind of ‘Future Wikipedia’

	Wikipedia	Truthcoin
--	-----------	-----------

	Protocol (Decentralized)	Centralized Non-Protocol
Focus	Spoken English	Shakespeare's Globe Theatre, The Library of Alexandria, MLA Citation Format, Walt Whitman, J.K. Rowling.
	Rules to American Football	The NFL, ESPN, The Buffalo Bills.
	Bluetooth	A Set of Stereo Speakers, The iPhone 6, A Car Radio Equipped with Bluetooth
	Bitcoin	VISA, PayPal, SWIFT, Western Union, Airline Miles, Amazon Coins, e-Gold, Liberty Reserve.

3. A software protocol

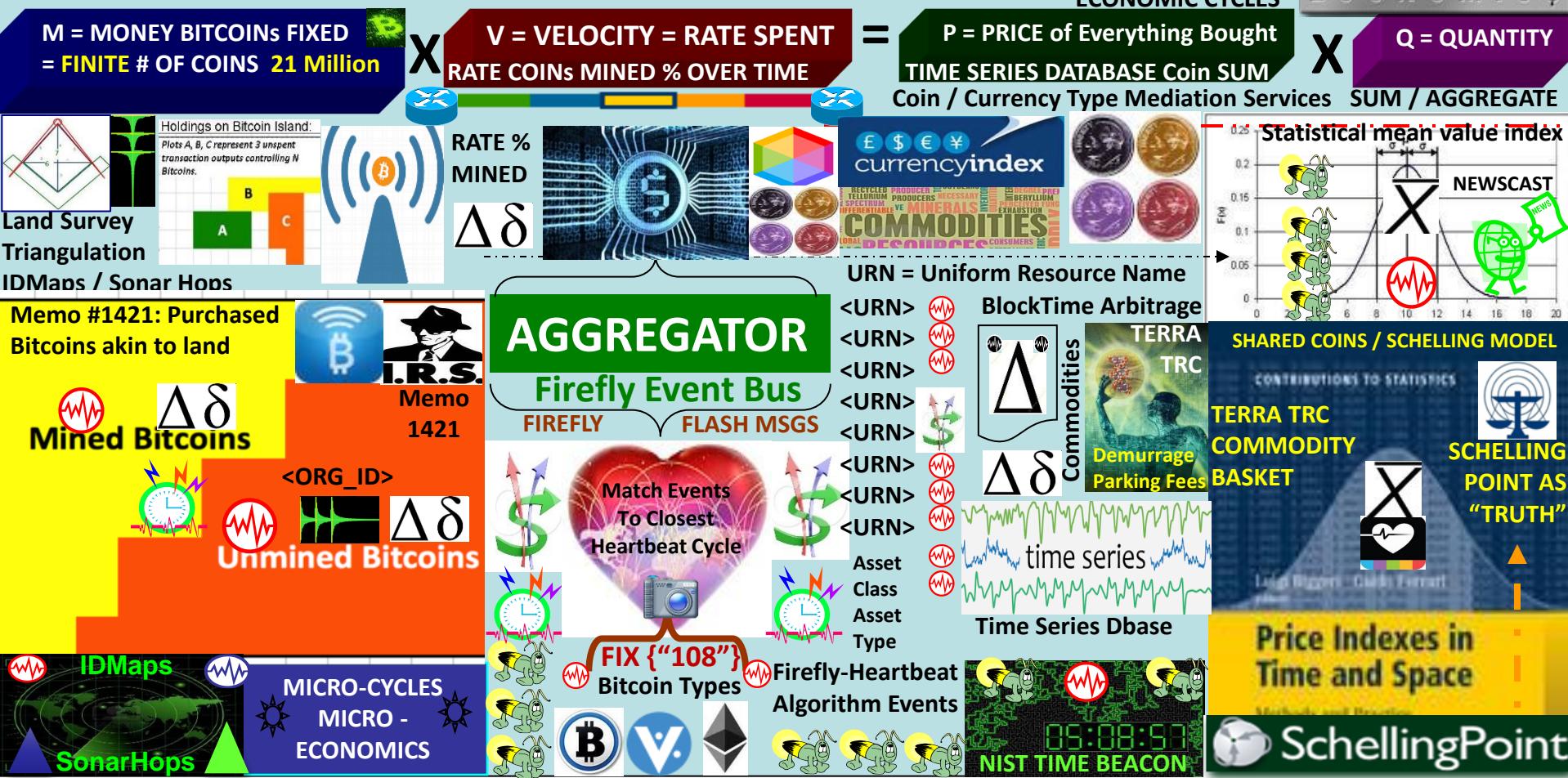
A protocol is a set of rules that determine how something is performed or accomplished



How 'Bitbanks' Could Solve Bitcoin's Volatility Problem

$$MV=PQ \text{ Money} \times \text{Velocity} = \text{Price} \times \text{Quantity}$$

The most important equation in monetary economics, the equation of exchange: $MV=PQ$. The quantity of money (M) times the rate spent (V for velocity) equals the price of everything bought (P) times the amount bought (Q for quantity). In Bitcoin, M Money is on a predetermined path, converging to 21m bitcoins. In relation to the other variables, Bitcoin is fixed. V, P, & Q fluctuate



Gamification is the use of game thinking and game mechanics in non-game contexts to engage users in solving problems. Gamification techniques strive to leverage people's natural desires for competition, achievement, status, self-expression, altruism, closure.



HOW GAMIFICATION WORKS:

5 COMMON MECHANICS

POINTS

100 PT
Measure a user's achievements in relation to others
Can double as currency to exchange for rewards

BADGES

Reward achievements visually

LEVELS

Encourage users to progress and unlock new rewards

LEADERBOARDS

Organise players by rank

CHALLENGES

Encourage engagement by offering specific tasks to complete

4 MAIN WAYS TO DRIVE ENGAGEMENT

ACCELERATED FEEDBACK CYCLES

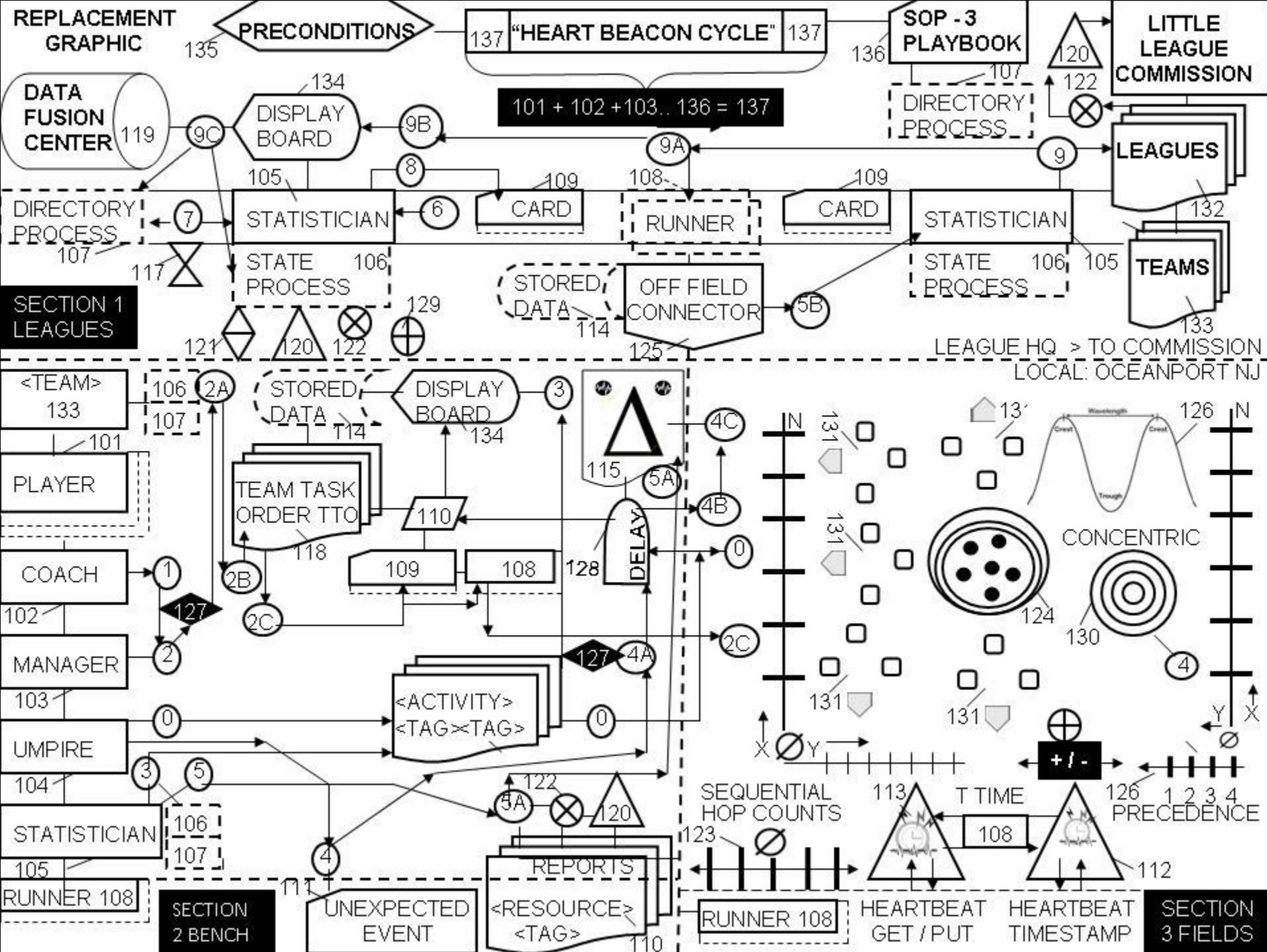
CLEAR GOALS AND RULES OF PLAY

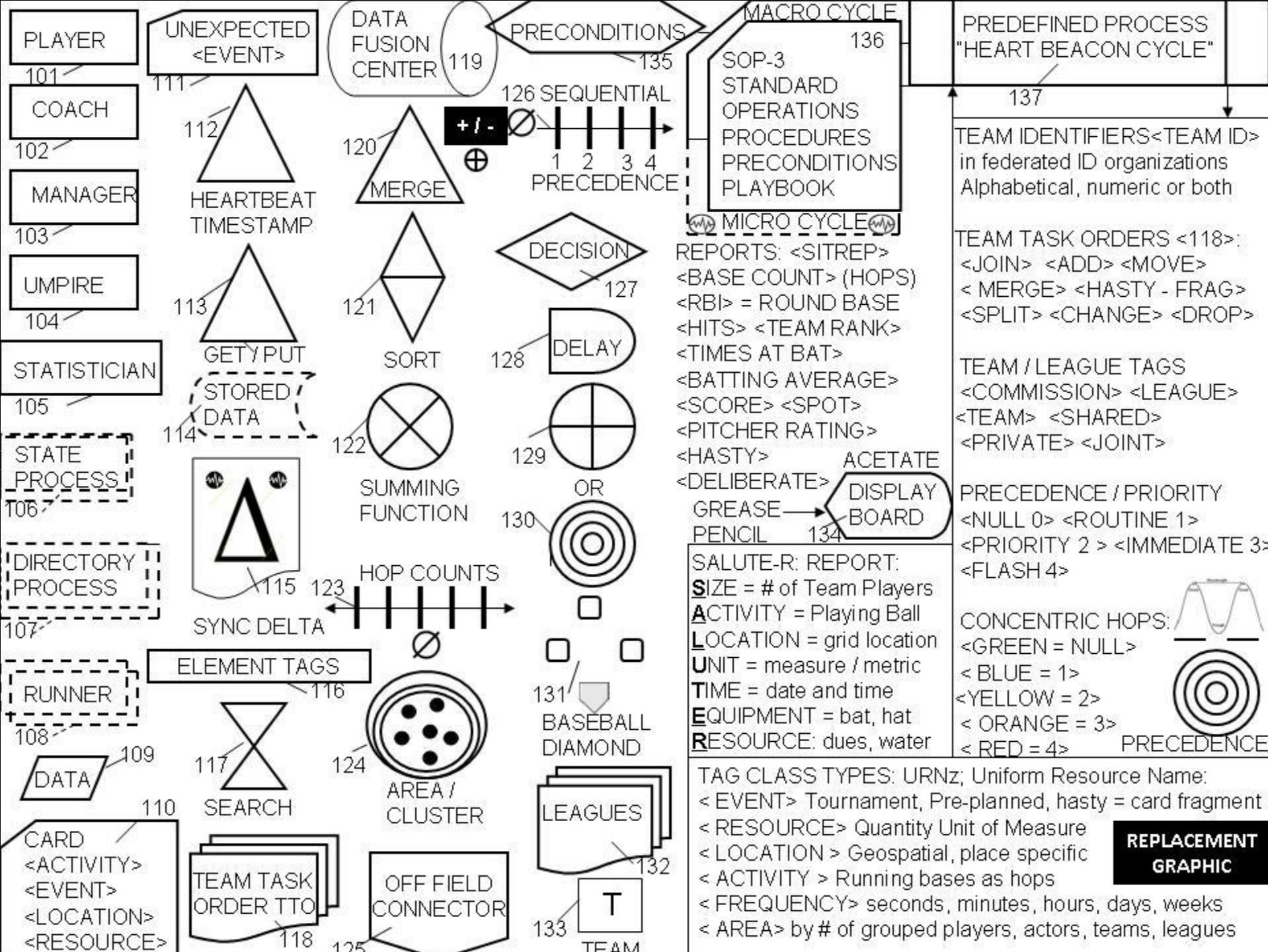
A COMPELLING NARRATIVE

CHALLENGING BUT ACHIEVABLE TASKS









BUILDING BLOCKS



TASK ON / OFF

201

B1: BUILDING BLOCK 1: TCP/IP HEARTBEAT TIME STAMP & DATA GET / PUT OF ORG ID / URN IN MICRO / MACRO CYCLES PRIOR TO DATA FUSION CENTER INSERTION



MACRO CYCLES



.0001

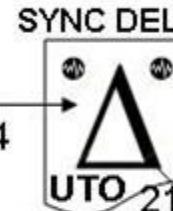
MICRO CYCLES

216



202 FEDERATED GROUP JOINS, MERGE, ADDS, DROPS

B2: BUILDING BLOCK 2: ADAPTIVE, CYCLIC, ITERATIVE PROCEDURAL TEMPLATES: XML ARTIFACTS i.e. UNIT TASK ORDER & K00.99 HEARTBEAT SYNC DELTA MESSAGES / STATE META DATA SNAPSHOTS IN NETWORK EXECUTION MANAGEMENT MARKUP OF SERVICE INTERFACE ARTIFACTS



ADHOC / AGILE
FEDERATED <ID>
GROUPS SYNC'D
IN TIME / SPACE

215 LEADER'S
INTENT
DECISIONS



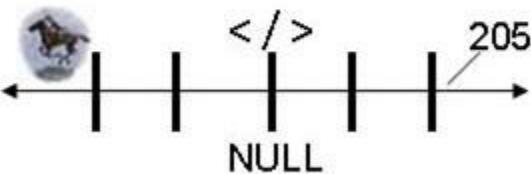
SYNC DELTA METRICS IN SLA CLAUSES AS
MOE, MOP METER IN TAX CODES, TRANCHE
CLASSES / RATINGS ARBITRAGE TRIGGERS

203

B3: BEACON TECH TYPE I: PAUL REVERE LINEAR, SEQUENTIAL HOP COUNTS



SEARCH FOLLOWED BY ARBITRAGE INVITES VIA
BEACON NEWSCASTS. INVITE ACROSS SPACE / TIME



LENGTH, THRESHOLD, INTENSITY, DURATION



208



APPLIQUE' OVERLAYS



MAP VIEWS GEO-LOCATION SPECIFIC
SHOW SYNC DELTAS BY GROUP /
RESOURCE TYPE, EVENT CLASS /
NEWSCAST BY TRANCHE <CLASSES>

204

B4 BEACON TECH TYPE II: WATER DROP IN POND RADIUS, CIRCUMFERENCE GEO SPATIO-TEMPORAL

NIST RANDOMNESS BEACON: broadcast full-entropy bit-strings in blocks of 512 bits every 60 seconds. Each value is time-stamped, signed, & includes hash of previous value to chain sequence of values together. This prevents all, even the source, from retroactively changing an output packet without being detected. The beacon keeps all output packets and makes them available online. 1st, Beacon-generated numbers cannot be predicted before they are published. 2nd, public, Beacon's time-bound, authenticated nature of the Beacon proves true random numbers not known before a certain point in time. 3rd, this proof can be presented offline at any point in the future



NIST QUANTUM ENCRYPTION RANDOMIZATION BEACON

UNPREDICTABLE SAMPLING

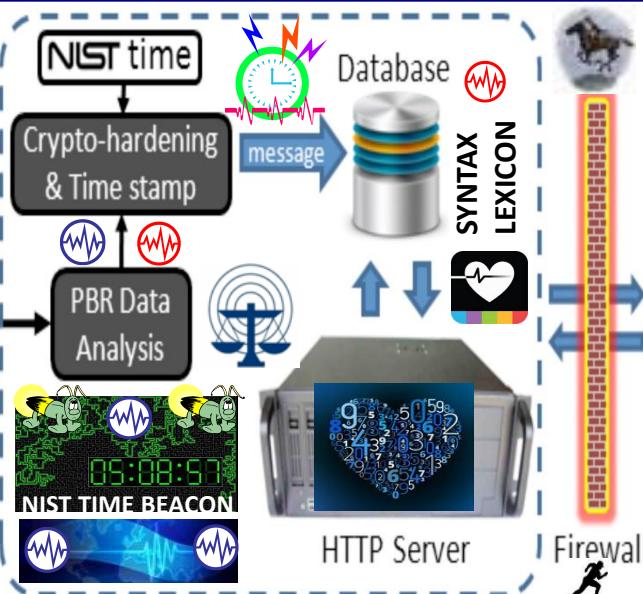
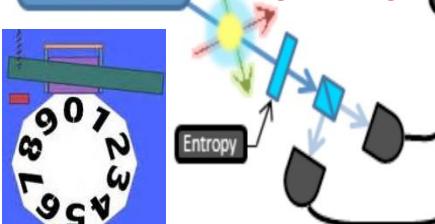
SECURE AUTHENTICATION

SECURE MULTI

PARTY /
AUTHENTICATION

Entanglement
Source

RANDOM
NUMBER
GENERATOR



NIST

**NON
REPUDIATION**

Legend:

- App: software application
- DB: database
- Fw: firewall
- HSM: hardware security module
- RNG: random-number generator

IDMaps Distance Estimation Service

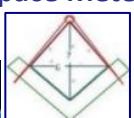
SonarHops



USPTO 13,573,002 Heart Beacon Cycle Geo-spatial, temporal Intensity

Metrics and Time - Space Meter uses PHYSICAL Memes / Metaphors

**NAMED DATA
NETWORKING**



NDN
</Interest>
</Distance>

NDN
SURVEY METHODS
+ TRIANGULATION
Euclidian Geometry

Geodesic System Routing Info Base RIB

ACCOUNT BELONGS TO </Org_ID>

RESOURCE TYPE: <URN><URN><URN>

DEVICE / SENSORS <UUID><UUID>

Higher-level services collect distance data to build virtual distance map State
of Internet & estimates distance between any IP address pair State
Snap Shots

Time / Distance Metrics



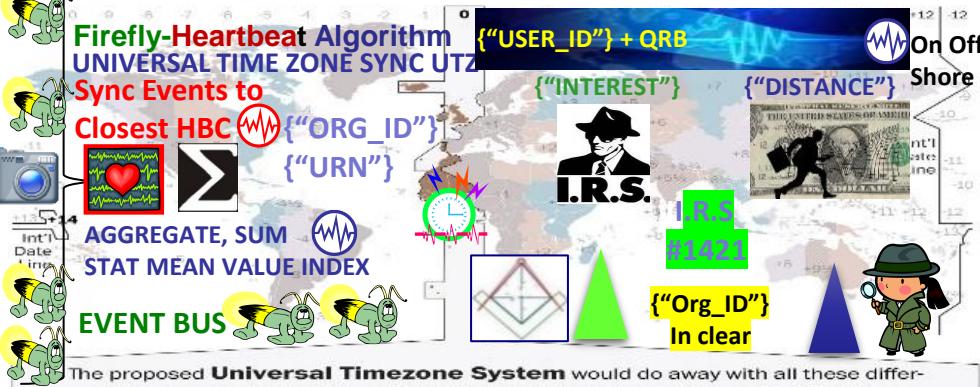
PROXIMITY

OFFSHORE BEACONS ONSHORE

NDN

</interest></distance>

The current standard time common throughout the world is based on a 24-hour clock, with zones that are either 12 hours ahead or behind **Coordinated Universal Time (UTC)**. However, these time zones are decided upon by individual governments, without overall coordination and can even extend fourteen hours ahead UTC. **Stochastic Harmonization**



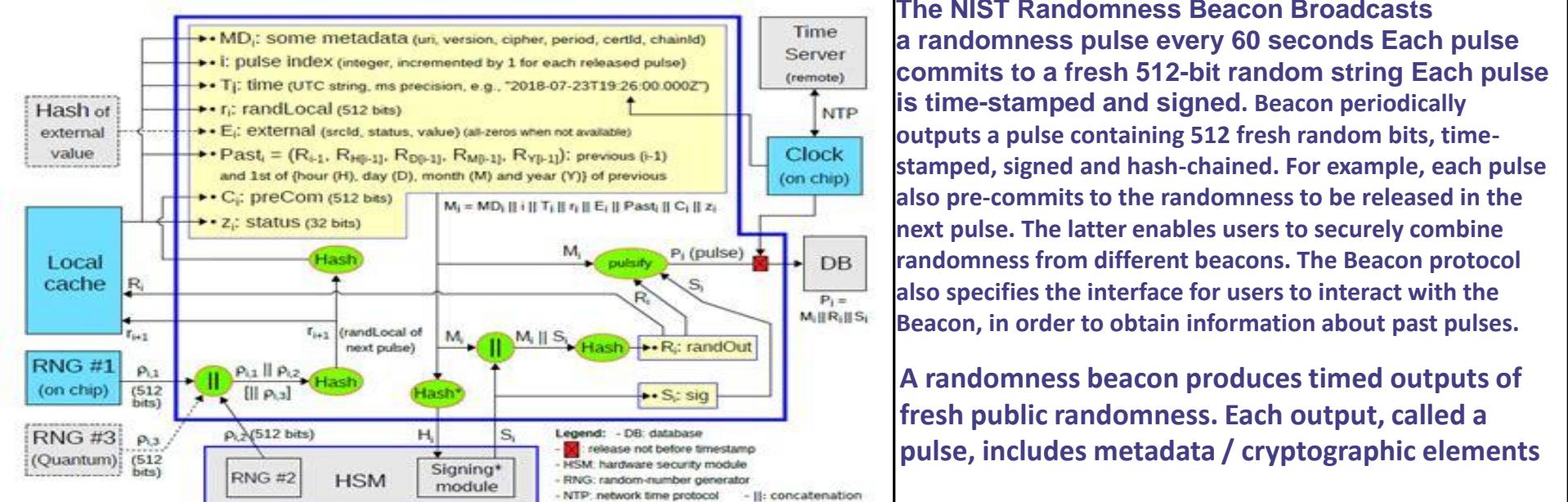
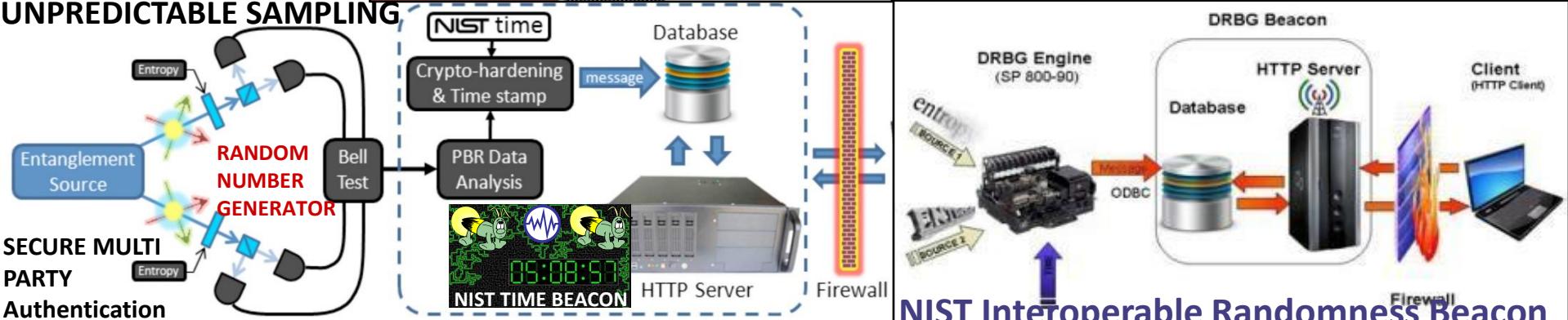
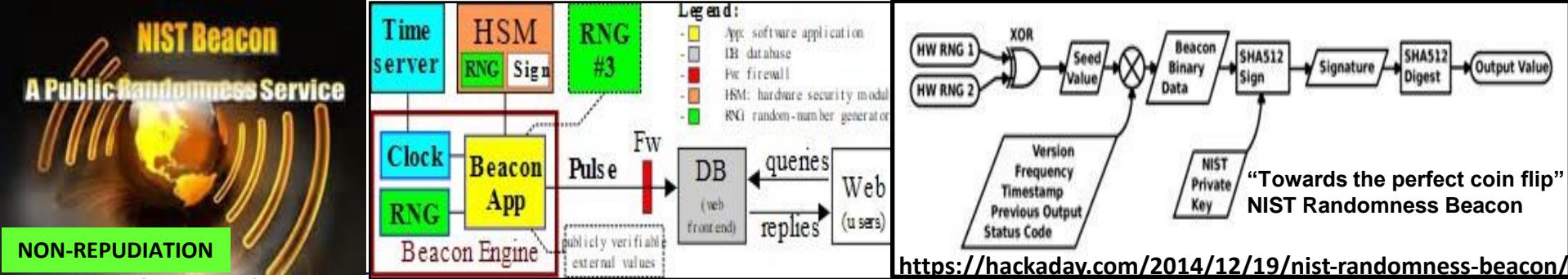


Figure 2. Illustration of the generation of the i^{th} pulse by a Beacon App (2.0)

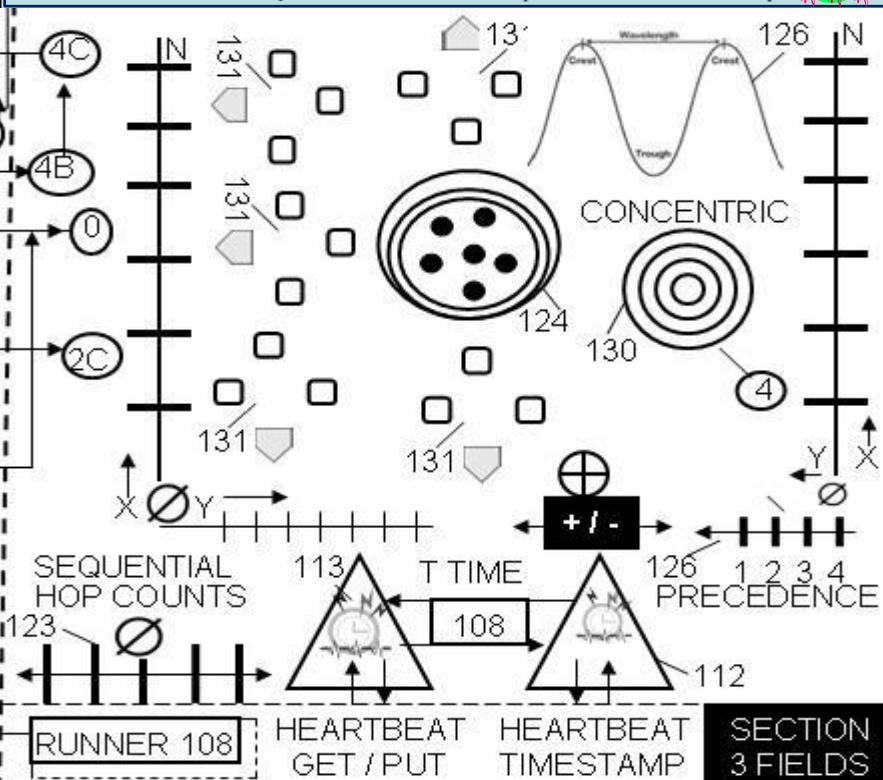
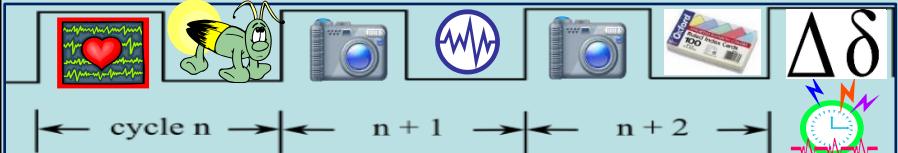
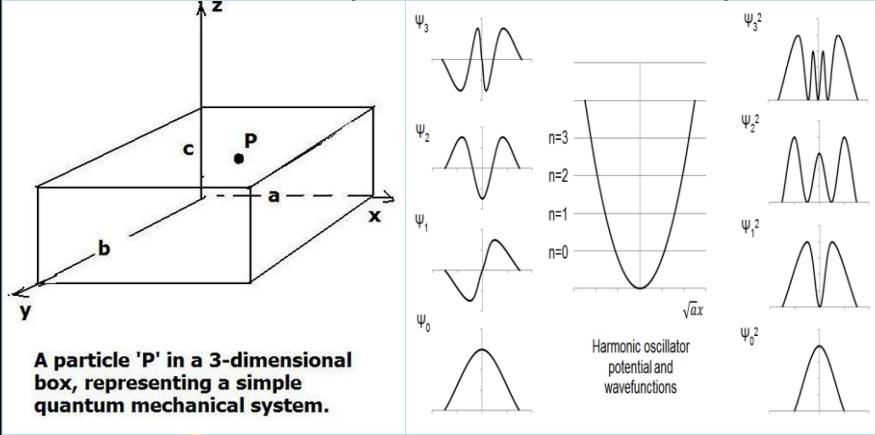
NIST Interoperable Randomness Beacon

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, in order to obtain information about past pulses.

A randomness beacon produces timed outputs of fresh public randomness. Each output, called a pulse, includes metadata / cryptographic elements

The main goal of the NIST Random # Beacon is to serve as a baseline for deployment of many interoperable beacons

QUANTUM COMPUTING / HBC TIME – SPACE METER / METRICS



#QuantumComputing USct Alice Corp Vs CLS Bank compliant memes:
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: the two states are vertical polarization and horizontal polarization. In a classical system, a bit has to be in one state or the other. Quantum mechanics allows a qubit to be in a superposition of both states at the same time, a fundamental quantum computing property

US Sct Alice Corp Vs CLS Bank Physical memes

Linear sequential “Paul Revere” meme = horizontal polarization

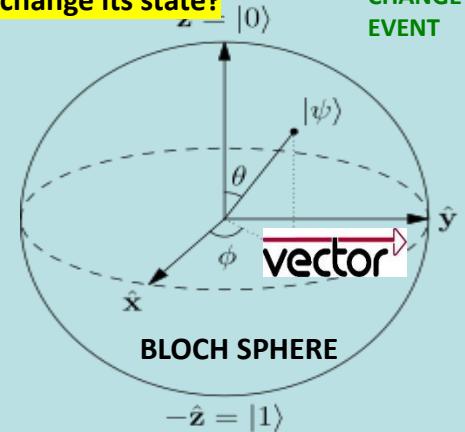
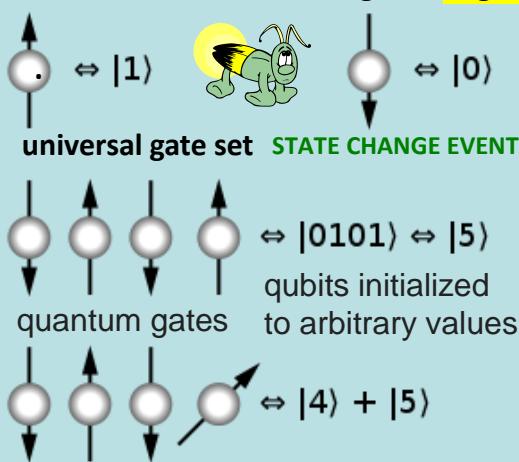
Vertical polarization vectors from a known point 0 null Sonar Hop meme



particle representation / samples



Instead of each bit having two potential states — on or off — a quantum bit or qubit has three. It can be on, off, or both, and you only know which one it is once you look at it. How can you tell if a bit of data is correct if looking at it might change its state?



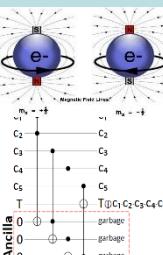
Microwave pulses like sonar ping...

qubits can be in a superposition of all the classically allowed states

silicon device movement is controlled through use of microwave pulses. As an electron spins up, a binary value of 1 is generated, when the electron spins down, a binary value of 0 is generated.



Fock state number state quantum state that is an element of a Fock space with a well-defined number of particles (or quanta)

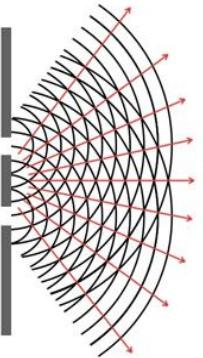


Double-Slit Experiment

Screen with two slits

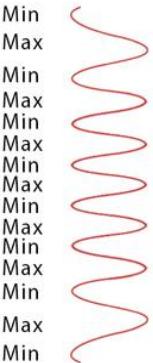
PARTICLE ?

Sodium lamp



Screen

WAVE ?



Light source Rays of light coming from the source reach the slits

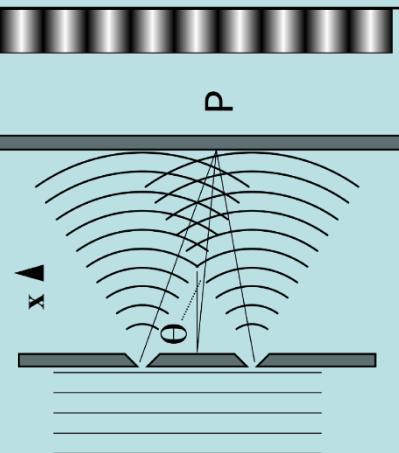
Interference of light waves due to two tiny slits and arrows indicate direction of wave propagation

Alternating bright and dark fringes due to interference of light waves

Intensity of the fringes shows the maxima and minima

Science Facts

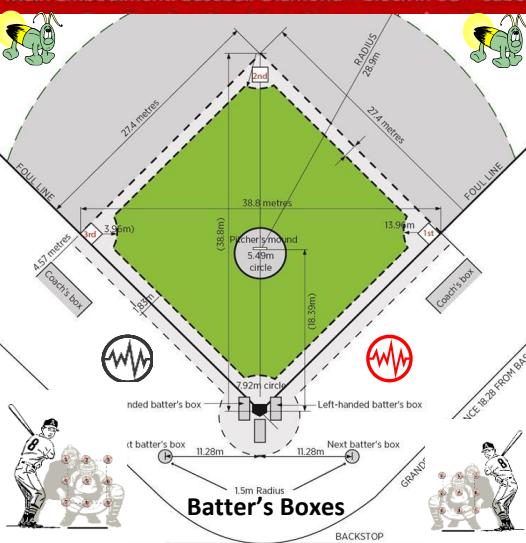
QUANTUM COMPUTING
- RESISTANT ? - BASED ?
THROUGH LENS OF SCOTUS
ALICE LOOKING GLASS RULING



USPTO APPLICATION 13/573 002

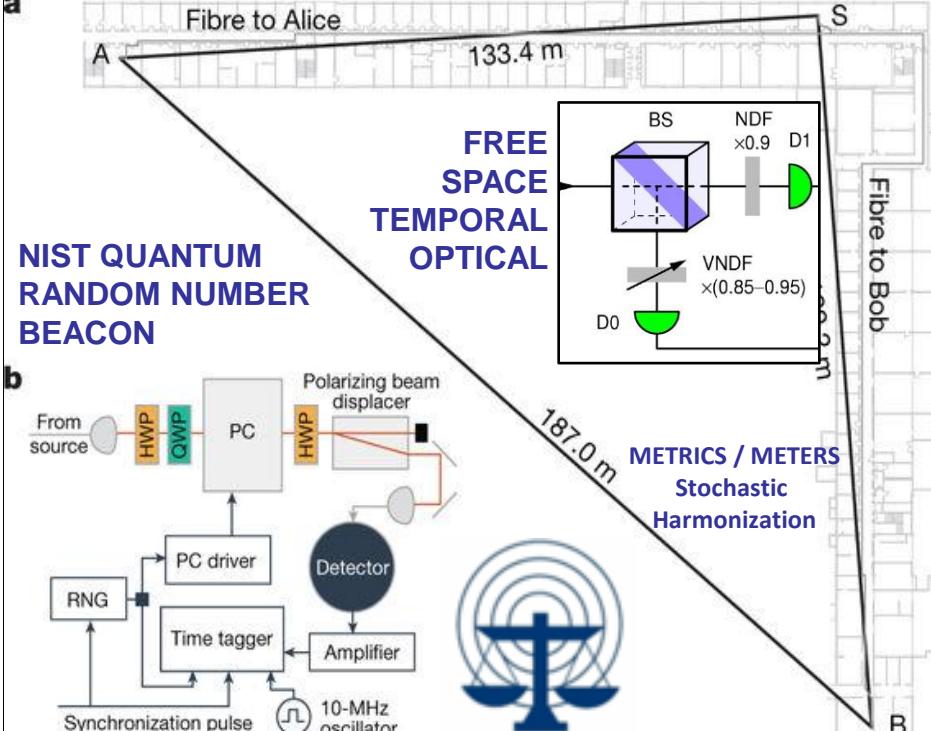
The Heart Beacon Cycle Time-Space Meter

Main Embodiment: Baseball Diamond = block in 3D = cube



SCOTUS ALICE RULING: "Claims may not direct towards abstract ideas" / Physical = opposite of abstract

a

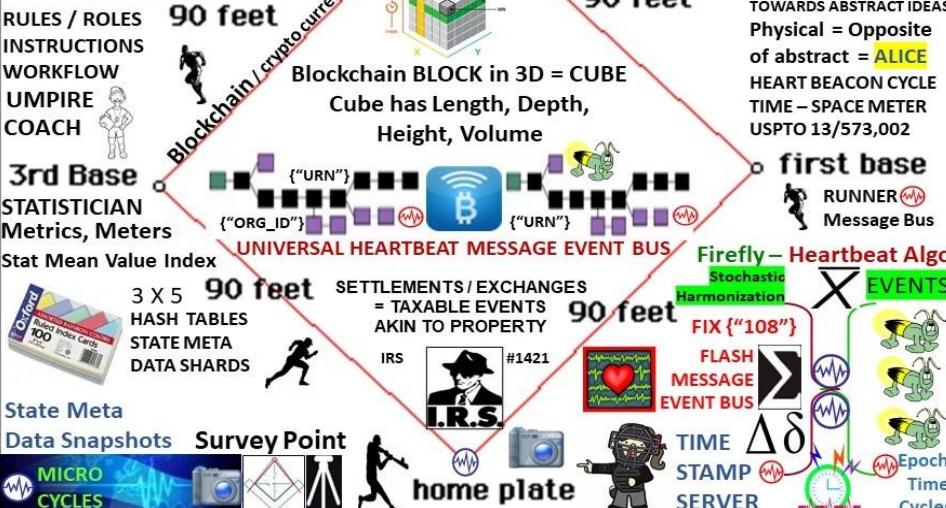


CLOCK FACE 360°
90 / 90 / 90 / 90



MACRO CYCLES

RULES / ROLES
INSTRUCTIONS
WORKFLOW
UMPIRE
COACH



The Hopf Fibration

Edmund Harriss

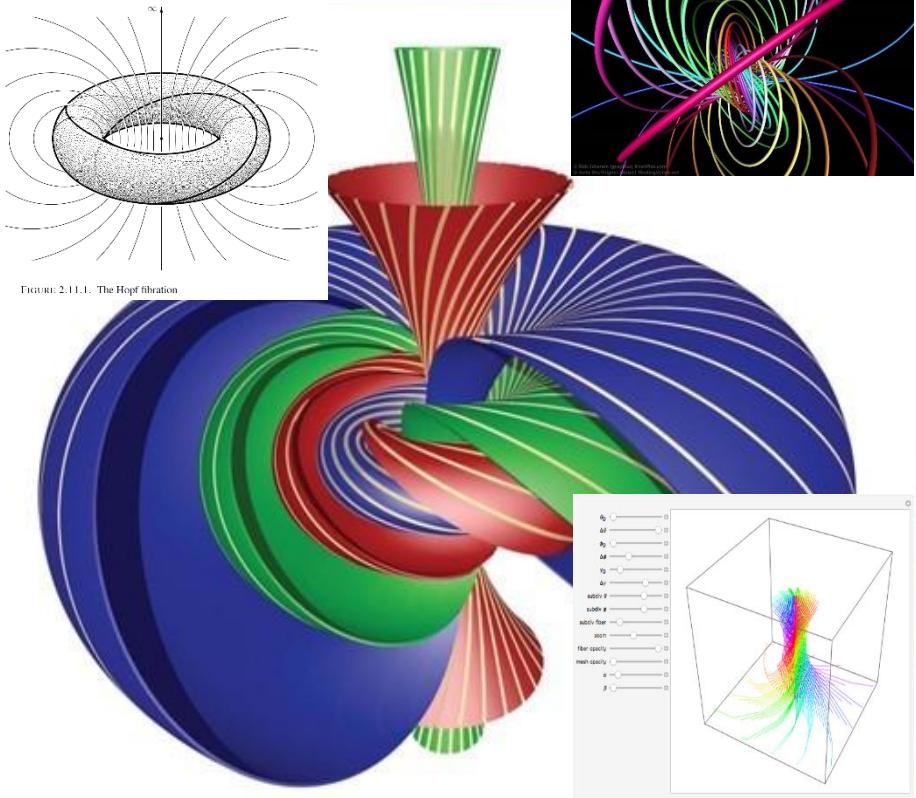
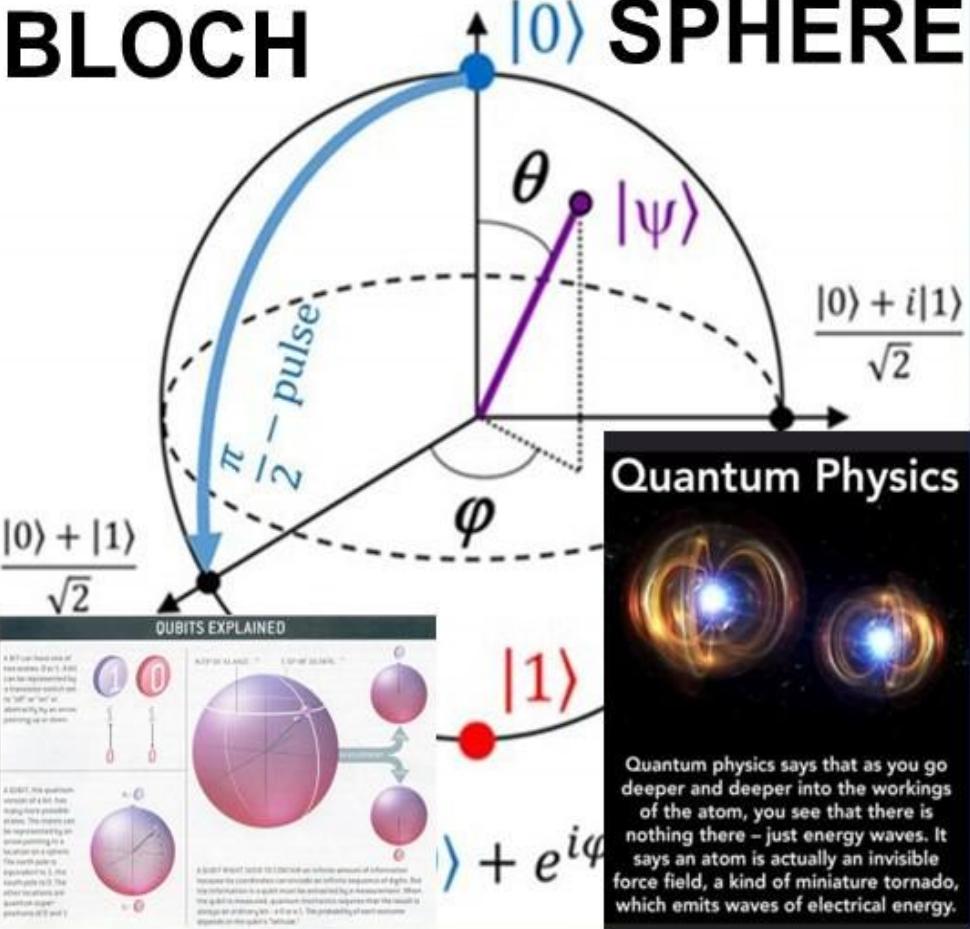


FIGURE 2.11.1. The Hopf fibration

BLOCH SPHERE



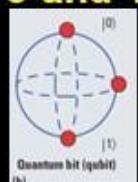
Hopf Fibration / #Bloch sphere

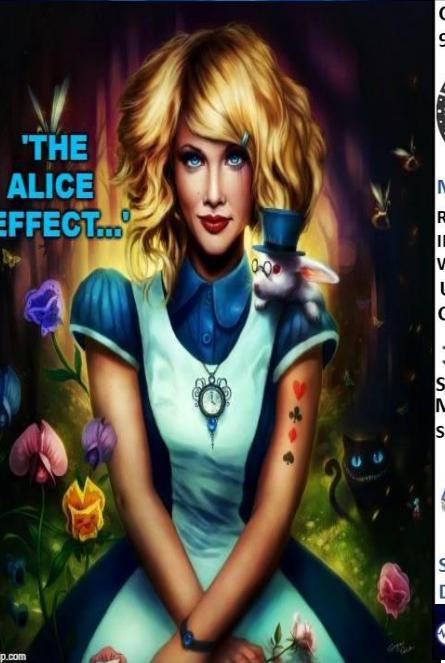
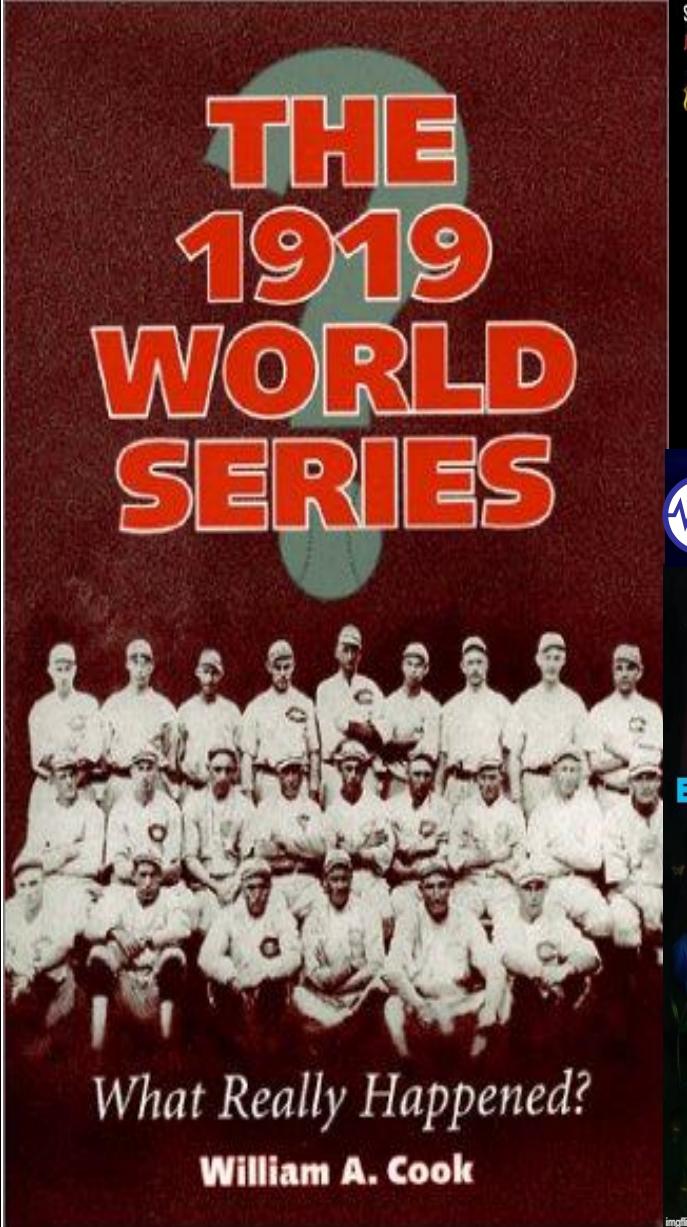
"the most important object in the universe"

"Hopf fiber bundles pop up in 8 quantum physics situations"... USPTO 13/573,002 water drop in pond meme / scalar wave in 2D - 3D

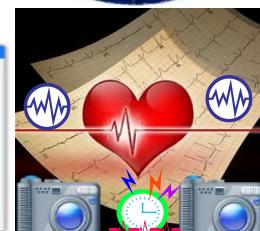
Paul Revere linear - sequential hop count meme

The Bloch sphere provides a useful means of visualizing the state of a single qubit & operations on it. Any point on this sphere represents a linear combination of the 0 and 1 states with complex coefficients. A $\pi/2$ -pulse 'rotates' a qubit from the 0-state to a superposition state.





Alice Corp. v. CLS Bank International, 573 U.S. 134 S. Ct. 2347 (2014)
RULING: "claims may not direct towards abstract ideas"



USPTO SCREEN CAPTURES SUSPENDED PAIR RULES

- Moved Examination outside PAIR
- Admin forms, fees, amendments.. MUTED
- NO Time Stamps = TEMPORAL AMBIGUITY
- Screen captures before / after filing

CLOCK FACE 360'
90 / 90 / 90 / 90
330 340 30 60
270 240 30 90
210 180 150

BASEBALL "DIAMOND"

A diamond Is a square Is a block in 3D
2nd Base



BANK SC 573 US 134 2347
CLAIMS MAY NOT DIRECT TOWARDS ABSTRACT IDEAS
Physical = Opposite of abstract = ALICE
HEART BEACON CYCLE
TIME – SPACE METER
USPTO 13/573,002

MACRO CYCLES

RULES / ROLES
INSTRUCTIONS
WORKFLOW
UMPIRE
COACH

3rd Base

STATISTICIAN
Metrics, Meters

Stat Mean Value Index

3 X 5

HASH TABLES

STATE META

DATA SHARDS

Satoshi Nakamoto:
"The solution we propose begins with a TIME STAMP SERVER"

Blockchain BLOCK in 3D = CUBE
Cube has Length, Depth, Height, Volume

Blockchain/cryptocurrency increments

90 feet

SETTLEMENTS / EXCHANGES = TAXABLE EVENTS AKIN TO PROPERTY

IRS #1421

Fix {"108"}

FLASH MESSAGE EVENT BUS

EVENTS

Firefly – Heartbeat Algo

X Stochastic Harmonization

FLASH MESSAGE EVENT BUS

TIME STAMP SERVER

Δδ Epoch Time Cycles

Micro Cycles





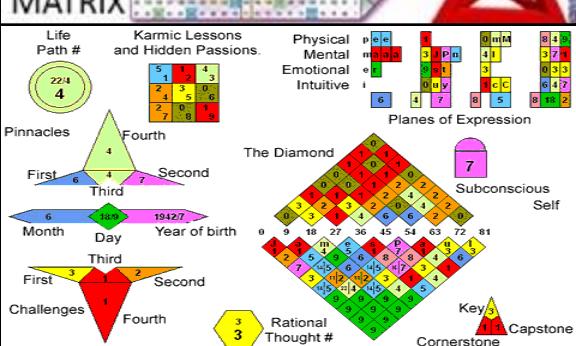
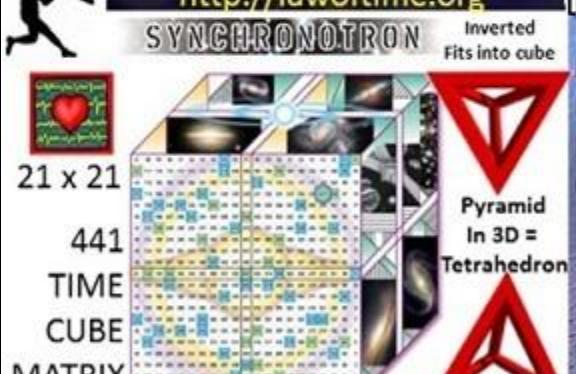
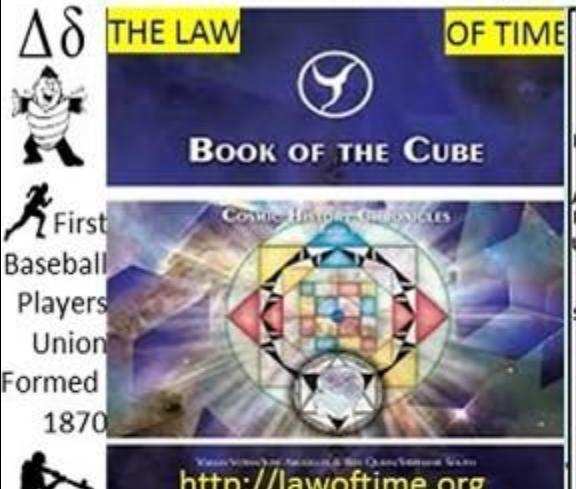
USPTO APPLICATION 13/573 002

The Heart Beacon Cycle Time-Space Meter

Main Embodiment: Baseball Diamond = block in 3D = cube

$$1 + 3 + 5 + 7 + 3 + 2 = 21 \quad 21 \text{ squared} = 441$$

"We can synchronize ourselves in time for a common purpose" Universal Blockchain Meme



Satoshi Bitcoin Blockchain
Time Stamp Server

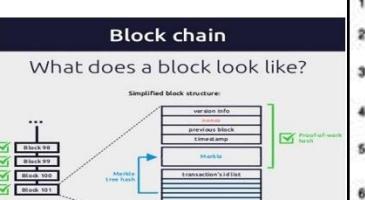
Timestamp Server

Let us propose begin with a timestamp server. A timestamp server works by taking a block of time to be timestamped and publishing the hash code, such as H , of the block at t and $t+1$ [23]. The timestamp peers for the data to be stored at the end of the block. The timestamp server also stores the timestamp of the previous timestamp, forming a chain, with each additional timestamp reinforcing the ones before it.

```

graph LR
    TS[TS] --> H1[Host 1]
    TS --> H2[Host 2]
    subgraph TS
        direction TB
        TS1[TS] --- TS2[TS]
        TS2 --- TS1
    end
    H1 --- F1[File 1]
    H2 --- F2[File 2]
    F1 --> TS
    F2 --> TS

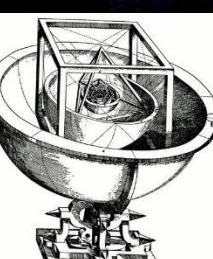
```



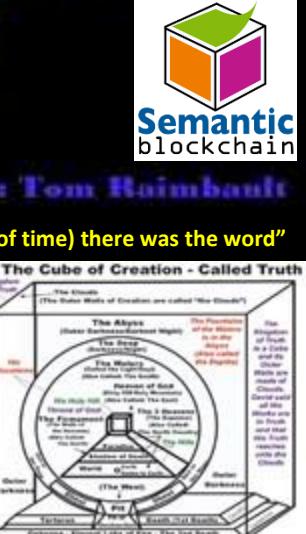
Metatron's Cube and the Platonic Solids



“In the beginning (of time) there was the word”



GENESIS OF ALL FORM





"There is only one revolution tolerable to all men, all societies, all political systems: revolution by design and invention."

-Buckminster Fuller



THE GREAT CONJUNCTION IN AQUARIUS

HERALDING THE NEW AGE
On December 2020, Jupiter and Saturn unite in the sign of Aquarius, forming a configuration called a Great Conjunction which only happens once every twenty years. Great Conjunctions are often longterm beginnings or foundations formed out of unstable circumstances. In the sign of AQUARIUS, this is likely to mark a major technological boom that will culminate on 2030 and last until 2040, the next Great Conjunction.

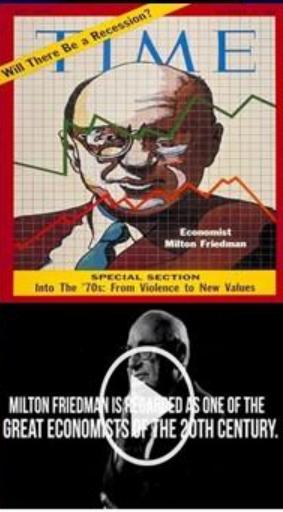
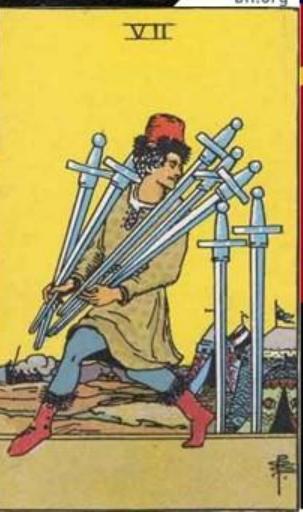
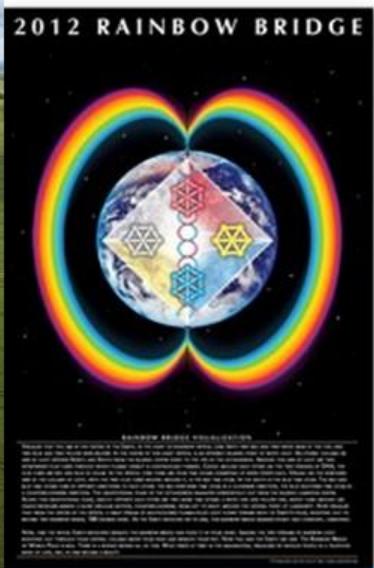
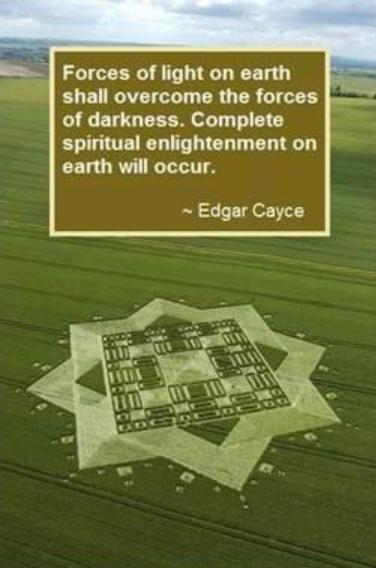
Over the next ten years, we are going to see our world innovate unlike never before, particularly in the fields of AI, technology, science, space travel, UFOs, networks, and the Internet. Major Universal truths will also be revealed as we welcome the New Age of Aquarius. The old world will soon come to an end, paving way to the new order of things.

photo by werner du plessis



Forces of light on earth shall overcome the forces of darkness. Complete spiritual enlightenment on earth will occur.

~ Edgar Cayce



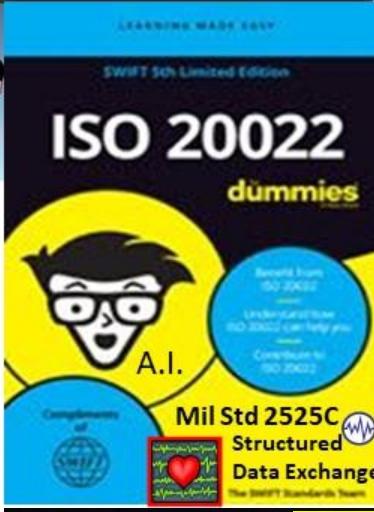
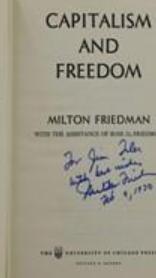
"ONLY A CRISIS—ACTUAL OR PERCEIVED—PRODUCES REAL CHANGE. WHEN THAT CRISIS OCCURS, THE ACTIONS THAT ARE TAKEN DEPEND ON THE IDEAS THAT ARE LYING AROUND."

That, I believe, is our basic function: to develop alternatives to existing policies, to keep them alive and available until the politically impossible becomes politically inevitable.

Milton Friedman — Preface to Capitalism & Freedom 1962

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: sets the money supply growth at a rate equal to the growth of gross domestic product (GDP) yearly.



The Age of Aquarius: Aquarius, Aquarius Rising @ 6:44 A.M. Feb 10th 1960

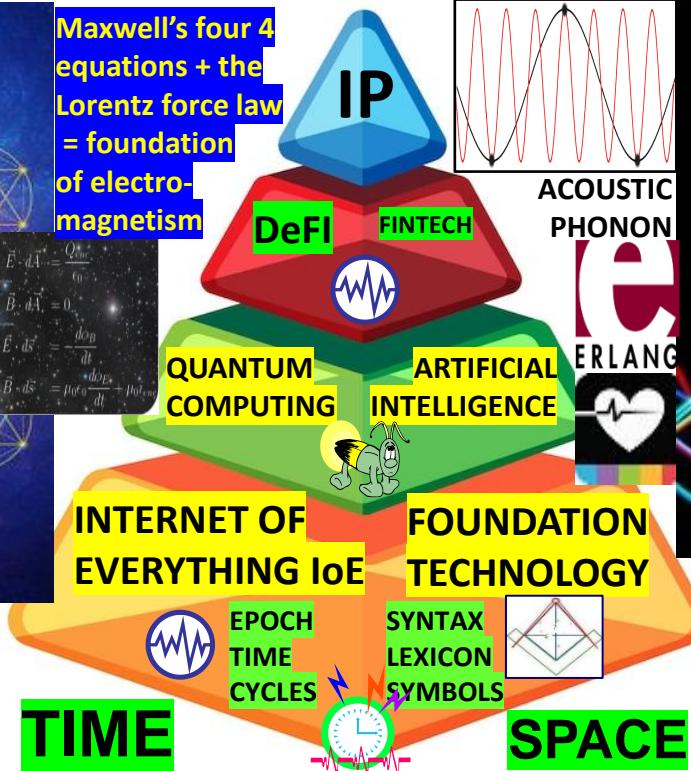
Buckminster Fuller "build a new model that makes the old model obsolete"

Socrates: focus all your energy on building the new, not fighting the old"

#algorithmic #stablecoin #buckminster #fuller #cryptocurrency #Milton #Friedman



METATRON'S CUBE
GENESIS OF ALL FORM

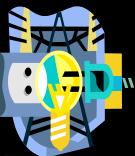


THE OZ KEY

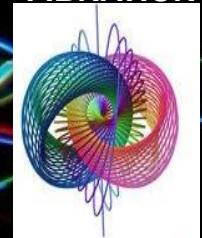


"Time is a created thing" Lao Tzu

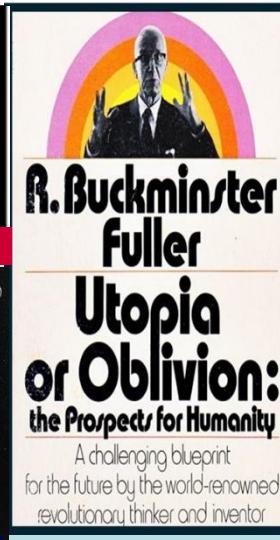
"If you want to find the secrets of the universe, think in terms of energy, frequency and vibration." - Nikola Tesla



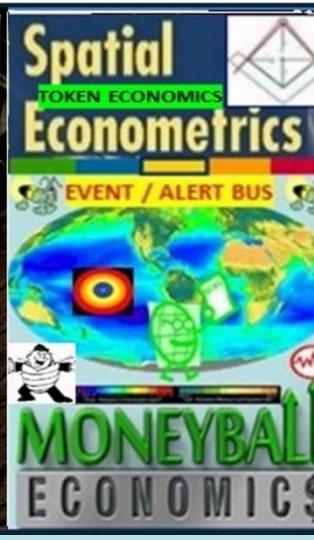
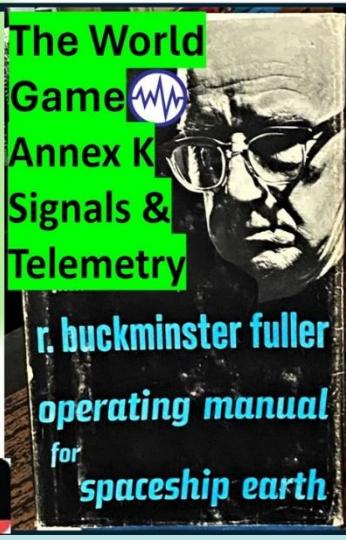
HOPF FIBRATION



USPTO 13/573,002 The Heart Beacon Cycle Time – Space Meter / Adaptive Template

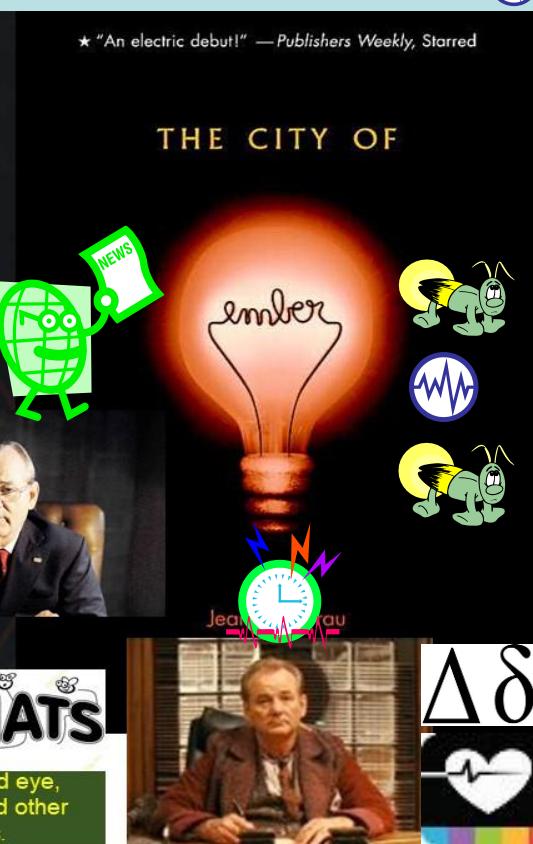
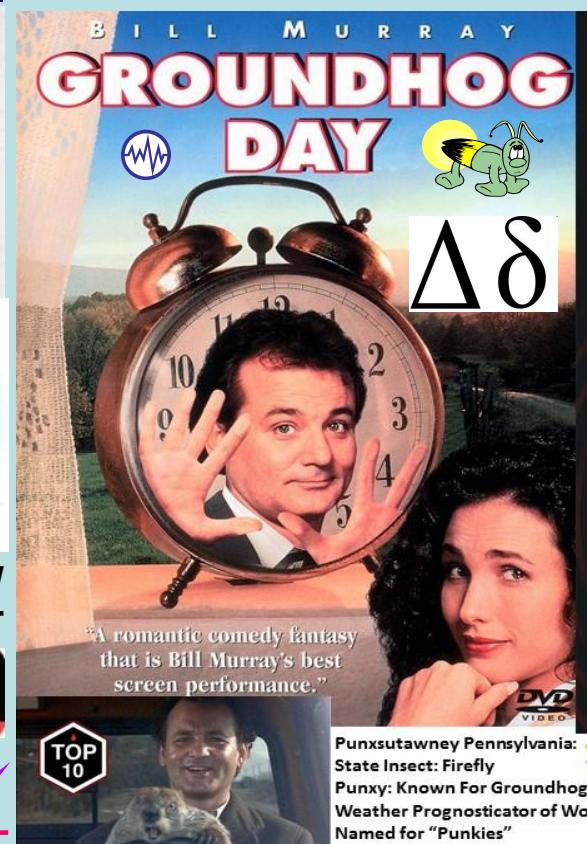
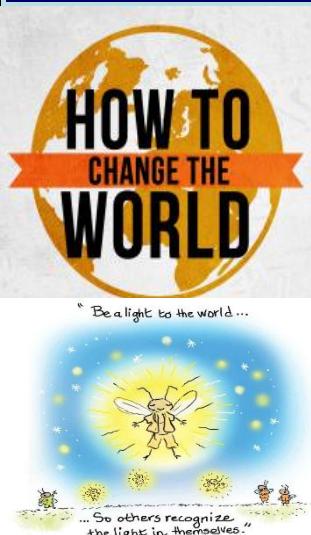


World (Peace) Game
1961 simulation by
Buckminster to help
create solutions to
overpopulation, the
uneven distribution
of global resources.



DISNEY'S FANTASIA

USPTO 13/573,002 The Heart Beacon Cycle Time - Space Meter / Eco Economic Epochs for programmable \$\$\$ / Economy



UNIVERSAL LAW
CAUSE / EFFECT
ACTION /
INACTION
IF / Then /
or.. ELSE



Punxsutawney Pennsylvania:
State Insect: Firefly
Punxy: Known For Groundhog
Weather Prognosticator of World
Named for "Punkies"



punk·ie [púngkee] NOUN
1. a fly, almost invisible to the naked eye,
that sucks the blood of animals and other
insects, leaving painful hictng welts.



Patent Applicant 13/573,002 Curriculum Vitae

What does your name mean?



Steven + McGee

Intellectual

Revolutionary

You have a sharp spirit paired with a strong will. You have the power to change the world with your intelligence!

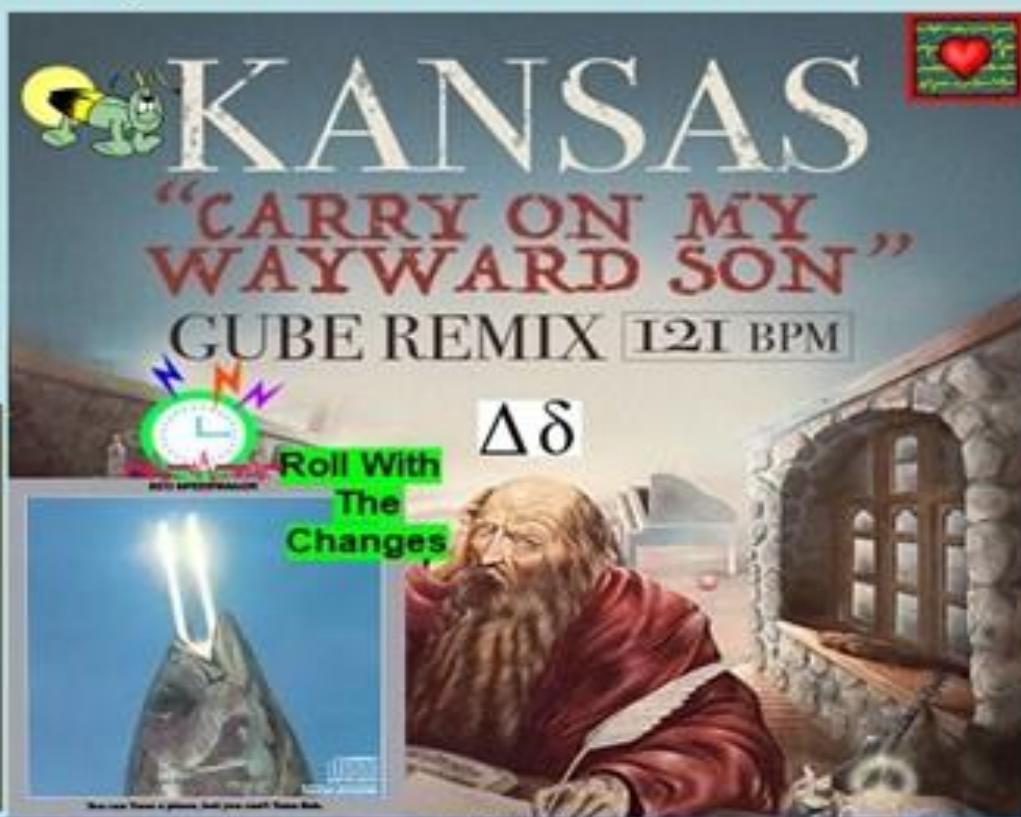
What does your name mean?



Steven + McGee

Endless Luck

You are an inspiration for your friends. Your loving ways, your huge heart and your beauty spread endless joy to the world!



$\Delta\delta$

Roll With
The Changes

BOOK OF THE CUBE

The Synchronicity 441 (21 x 21) cube matrix system represents the minimum fractal of totality. Calculated: 21×21 being the prime statement of totality ($21^2 = 1$ totality). $1 + 2 + 3 + 4 + 5 + 6 = 21$ (sum of totality). The Law of Time (Day).

Satoshi Nakamoto Reveal #2

CLOCK FACE DAY
 $90^\circ / 90^\circ = 90^\circ / 90^\circ$

BASEBALL "DIAMOND"
A diamond is a square in a block in 3D

INFOCON
4 3 2 1
INFORMATION CONDITION

Eco Incentives

"As an avid lover of numerology and astrology, I use both in my day-to-day life.

I believe God is the ultimate mathematician, as everything around us can be viewed as numbers"

Satoshi Nakamoto White Paper 2008 "The solution we propose begins with a time - stamp server"

