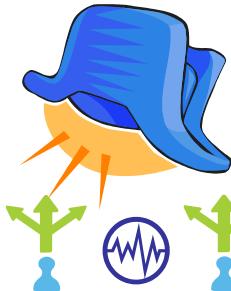


Beacon Kit

Battlefield Digitization for OOTW

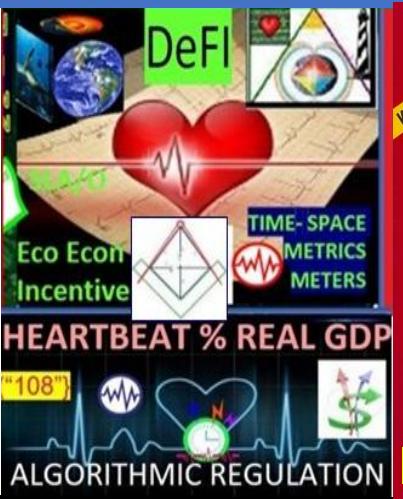


Foundation tech list of OPW Other

**People's Work swords to
plowshares reuse of battlefield
digitization for OOTW Operations
Other Than War: \$\$\$ Eco systems**

Adaptive Procedural Template list: tools, processes, procedures, ideas..

11 + Use cases: quantum financial System, DeFi, Fintech.. @ global federated system of systems sync..



The Timekeeper is the primary antagonist in Borderlands 4, a ruthless dictator who rules over the planet Kairos from on high.

A world-altering catastrophe threatens his perfect Order, unleashing mayhem across Kairos, the most dangerous planet discovered so far in the Borderlands universe

BORDERLANDS 4



THE UNIVERSE STRIVES TOWARDS EQUILIBRIUM



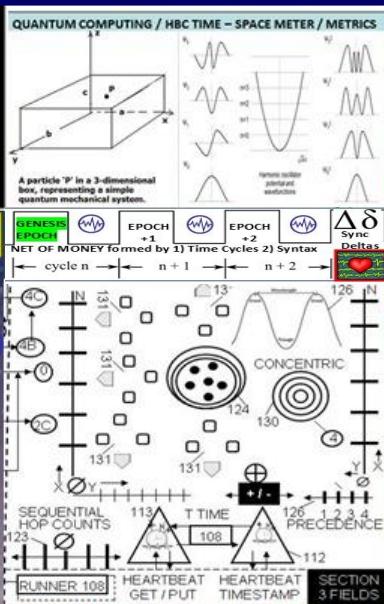
Hashed Timelock Contract (HTLC) / Epoch Sync Deltas $\Delta\delta$

QUOTE: "As in nature, all is ebb and tide, all is wave motion, so in all branches of industry, alternating currents, electric wave motion will have sway." Nikola Tesla

Because abstract ideas, laws of nature, and natural phenomenon "are the basic tools of scientific and technological work" .. Supreme Court Alice Corp., 573 U.S. at 216, 110 USPQ2d at 1980; Mayo Collaborative Servs. v. Prometheus Labs., Inc., 566 U.S. 66, 71, 101 USPQ2d 1961,



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



EDISON's Monetary Option 1922



FUTURE MAN

Born: February 10th 1960 & 06:44 AM

Aquarius

MR MAGOO

Aquarius Rising 144 Degrees

Mystic Yod

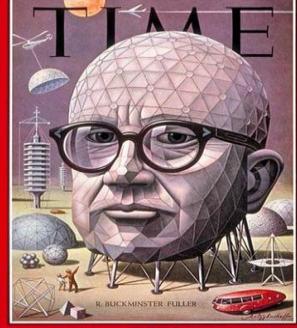


MR MAGOO X 3



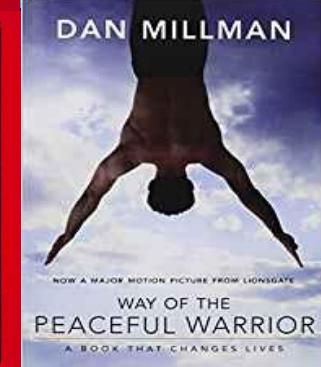
SPECIAL SECTION
Into The '70s: From Violence to New Values

"BUILD A NEW MODEL"

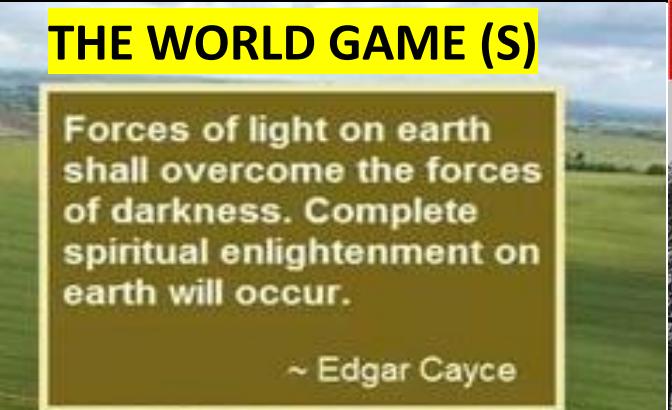
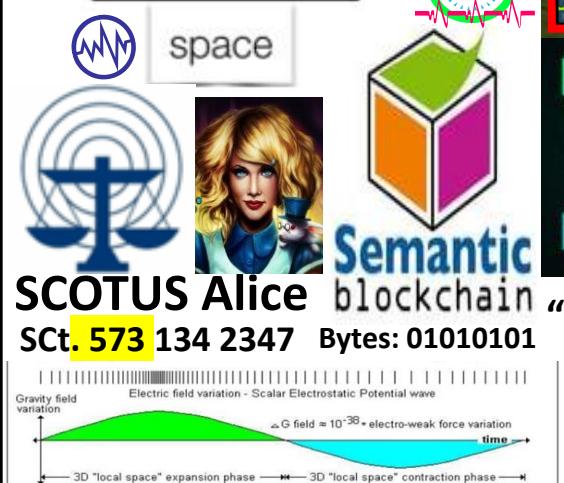
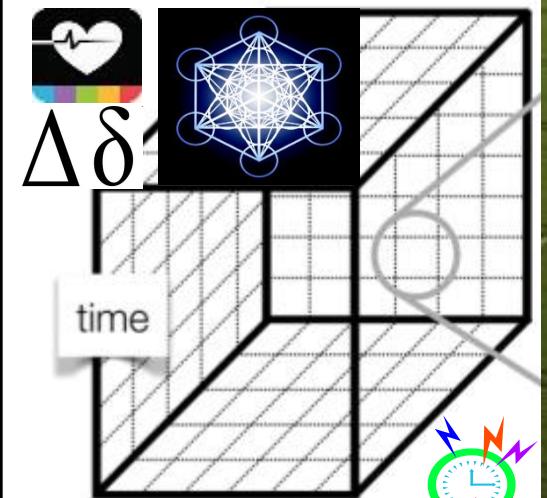


ADAPTIVE PROCEDURAL TEMPLATE Foundation

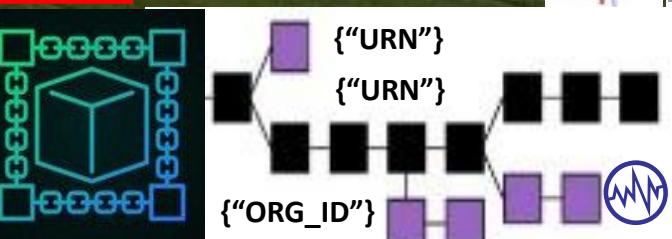
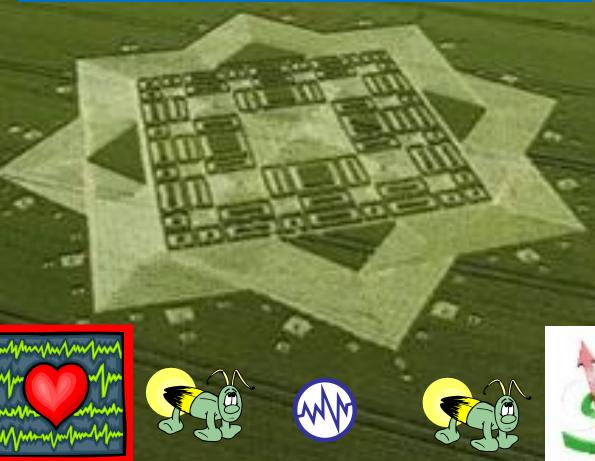
World Game (s) Real QFS Quantum Financial System QFS



"The universe strives towards equilibrium"
USPTO 13/573,002
Heart Beacon Cycle
Time – Space Meter =
Mediation, Moderation



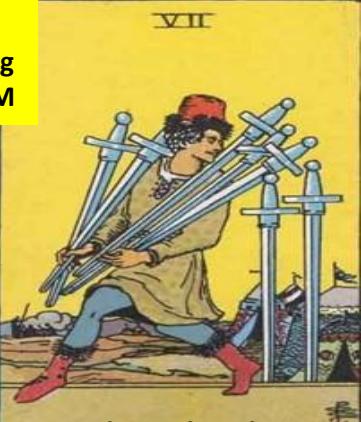
CUBE = SOURCE OF ALL FORM



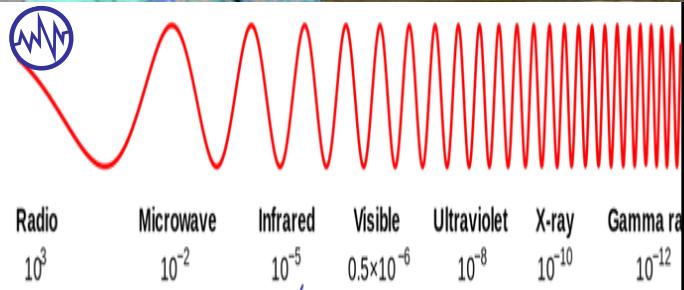
“BLOCKCHAIN” = TIME CHAIN EPOCHS



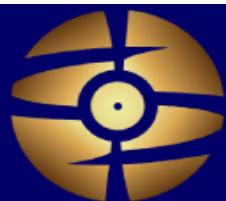
FATE CARD: 2/10/1960
Aquarius / Aquarius Rising
With mystic yod 06:44 AM



Swords to Plowshares



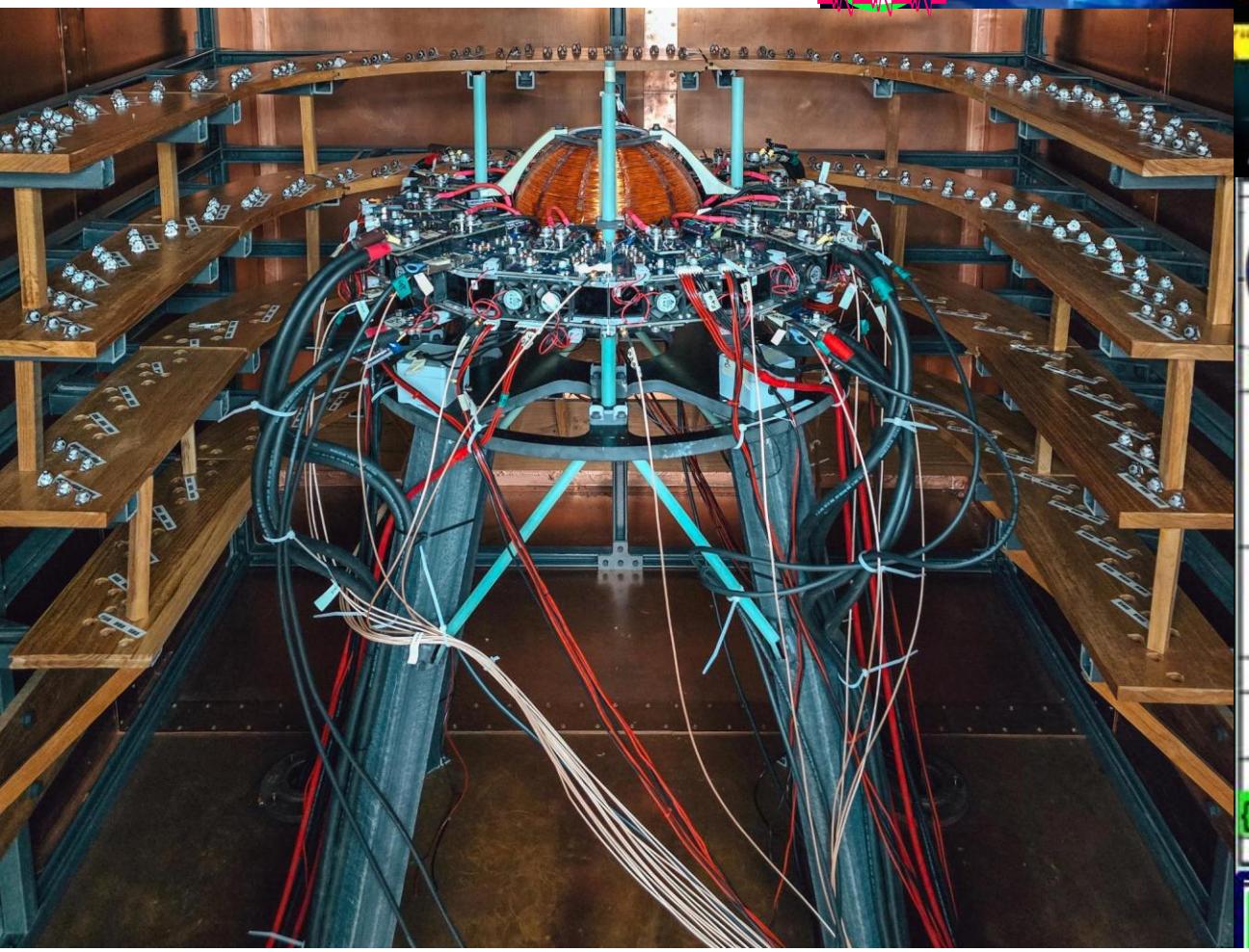
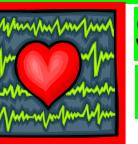
QUOTE: "As in nature, all is ebb and tide, all is wave motion, so in all branches of industry, alternating currents, electric wave motion will have sway." "All is wave form motion" Nikola Tesla



International Space Federation

ZPE Zero Point Energy Prototype
International Space Federation
<https://spacefed.com/isf-technology/>

Quantum – DeFi
System of
Federated
Systems

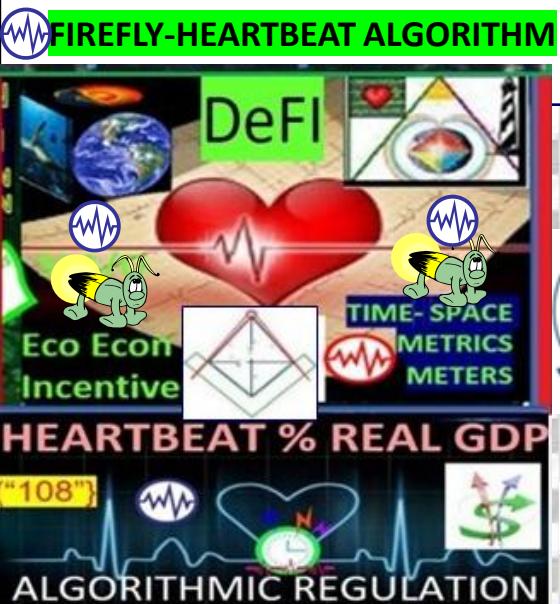


USPTO 13/573,002

Foundation Tech: Net, Net of QFS – DeFi Financial Federated Systems



USPTO
13/573,002
Sct. 573 134 2347
SCOTUS Alice in Wonderland 2014



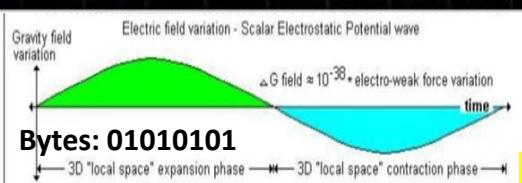
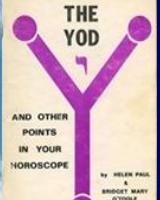
1 EARTH / 1 PEOPLE / 1 TIME



FUTURE MAN

Born: February 10th 1960 & 06:44 AM

Aquarius
Aquarius Rising
Mystic Yod



$\Delta\delta$

USPTO 13/573,002 THE HEART BEACON CYCLE
TIME – SPACE METER, METRICS QFS QUANTUM
FINANCIAL SYSTEM TECHNOLOGY FRAMEWORK
NET, NET OF \$\$\$ = TEMPORAL LAYERS
GENESIS EPOCH, Genesis + 1, 2, 3... N

“ All is energy wave form motion ” Tesla



Battlefield Digitization
Net Enabled Operations
Swords to Plowshare
“Last, Least among you”
Federate and graduate

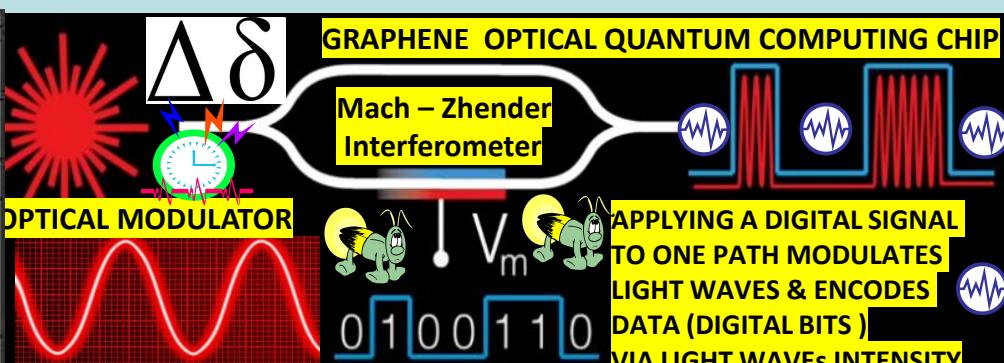
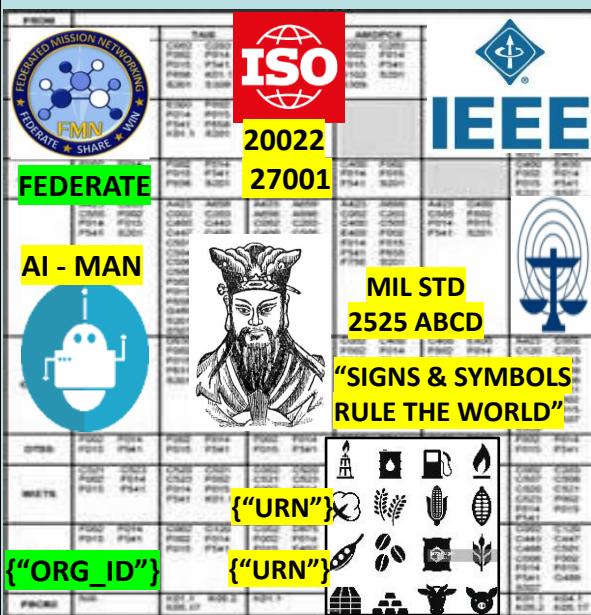
“Blockchain DLT Qubit...”
LAYERS = abstractions not
SCOTUS ALICE COMPLIANT

ALL NET, NET OF \$\$\$
ARTIFACTS CREATED WITH:
1. Epoch Time Cycles 2 Syntax

>1 DAVIDs
>1 Goliaths
> 1 TEAMS

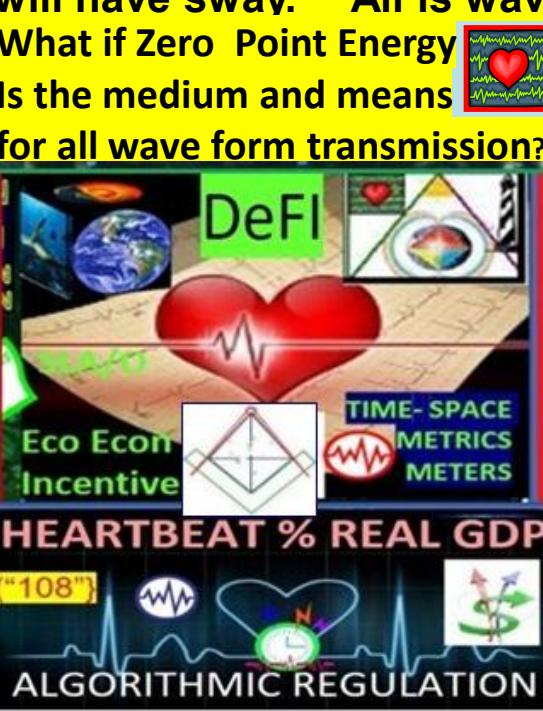
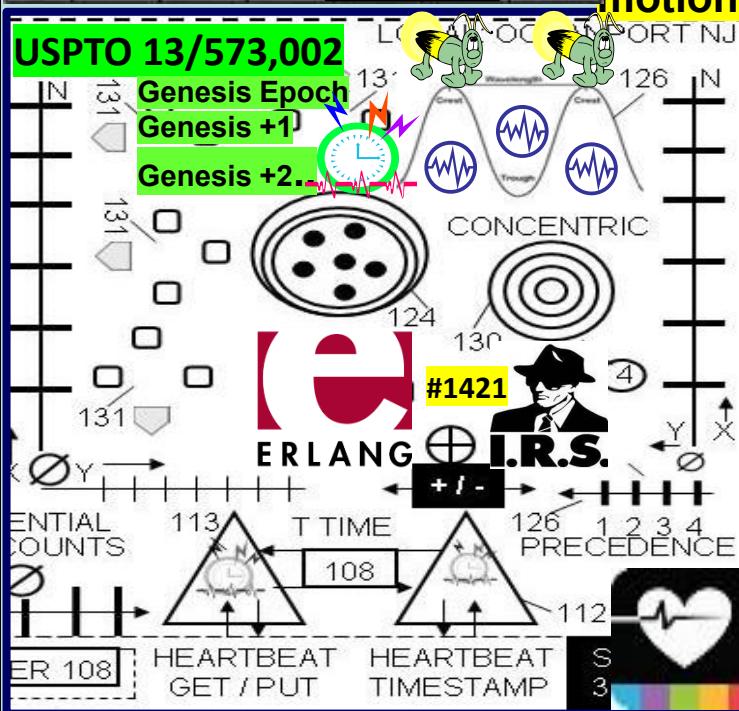
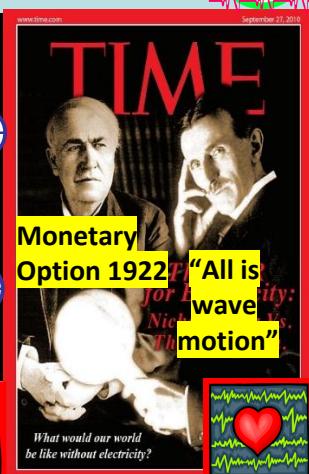


FOUNDATION TECH = 1. EPOCH TIME CYCLES / INTERVALS 2. SYNTAX



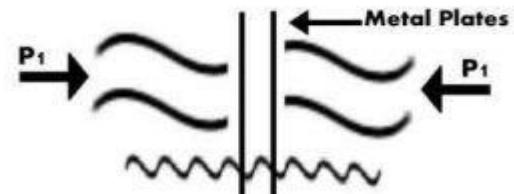
Electronic-photonic quantum chip: quantum silicon chip array of "quantum light factories"

QUOTE: "As in nature, all is ebb and tide, all is wave motion, so in all branches of industry, alternating currents, electric wave motion will have sway." "All is wave form motion" Nikola Tesla



ZERO POINT ENERGY

**ALL ENERGY IS REMOVED BUT
RANDOM ELECTROMAGNETIC
WAVES STILL REMAIN**



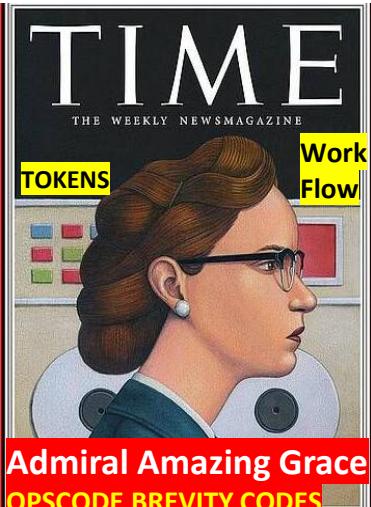
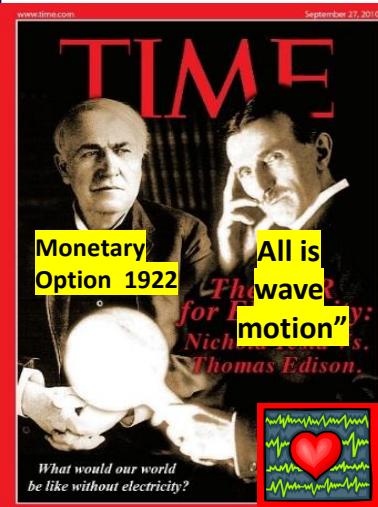
P₁ = PRESSURE FROM EXCLUDED WAVELENGTHS

ENORMOUS ENERGY DENSITY:

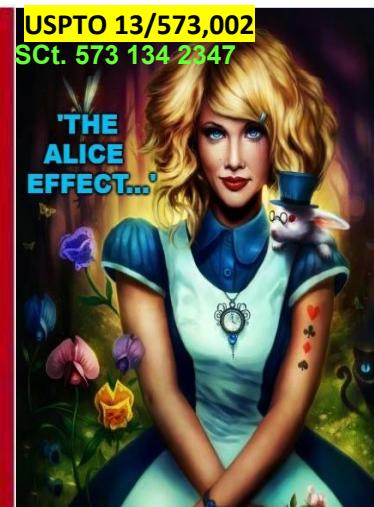
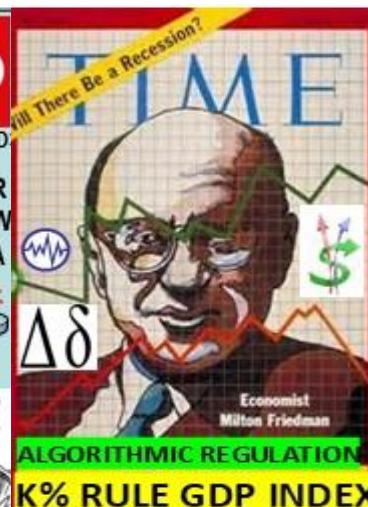
THE CASIMIR EFFECT ON METAL PLATES IN A VACUUM

QFS Quantum - DeFi system of DAO federated systems checklist:

1. Nikola Tesla was correct = "All is (energy) wave form motion"
2. Internet, net of \$\$\$ works the same for everything IoT, IoE
3. Net foundation = cannot change (wave form based) 1. Time 2. Syntax
4. DeFi IP wars escalate: **SCOTUS Alice in Wonderland**, ISO, ITU, IEEE etc.
5. Interoperability, sync, stochastic harmonization of QFS driven by wave form Vs quantum dot, particle methods (see Fermilab et al's research)
6. Simple, real will (eventually) win given rich, powerful entities all staked
7. > 1 David (s), many teams of Goliaths over the top battle royale (see #6)
8. Brevity codes mapped to symbols, symbol sets = AI – man = > TIME
9. Economist Milton Friedman correct @ K% rule, crisis = REAL **CHANGE**
10. SLA closer = cheaper given less fuel imperative, **climate**, peak oil
11. Zero Point, Over Unity, ZPE Energy from vacuum Nassim Haramein's **prototype silicon chip (crystal)** oscillations creating wave forms: see #1

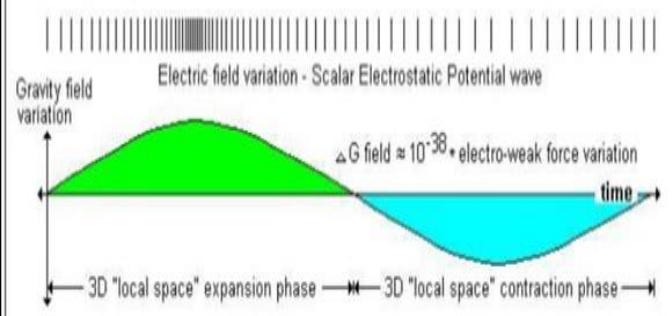


NATO	ISO
STOCK MIC CODES	</ORG_ID>
STRUCTURED DATA EXCHANGE	</URN>
TEMPLATE FORMS	R
300+ USE CASES	W
LOGIC / FILTERS	A
SYNTAX / SYMBOL	Real World Assets
LEXICON LIBRARY	A.I.



Nikola Tesla "all is wave form motion"

SCOTUS in Alice 2014 Supreme Court "has observed all inventions "embody, use, reflect, rest upon, or apply laws of nature, natural phenomena, or abstract ideas."



"abstract ideas = qualities, states, or relationships not physically present"

"As in nature, all is ebb and tide, all is wave motion. In all branches Of industry, alternating currents, electric wave motion will have sway"

all phenomena: electromagnetic and gravitational interactions, can be understood through the lens of wave dynamics. Electromagnetic waves form the basis of these interactions, that gravitational fields gravitational waves and quantum fields. Electromagnetic waves involve the generation of complex waveforms

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

Meter THESIS: All net, net of money, QFS are formed using:

1. Epoch time cycle temporal intervals ex: created by microchip , sound, light wave form oscillations
2. Syntax processed during epoch cycle temporal intervals

All things net, net of money, QFS, AI blockchains, hash-graphs etc., (time chains) are formed with unicast, multicast, anycast protocols, (statistically predictive) workflow logic = A.I. artificial intelligence propagated by electro-magnetic wave form motion described by nature

USPTO 13/573,002



SCOTUS 573 U.S. 208

(2014)

Alice Corp

VS CLS

Bank

SEQUENTIAL
HOP COUNTS

23

RUNNER 108

HEARTBEAT
GET / PUT

108

112

HEARTBEAT
TIMESTAMP

113

T TIME

111

SECTION
3 FIELDS

B2: PROCEDURAL TEMPLATE

310

311

XML

HEARTBEAT MESSAGES

STATE META DATA SNAPSHOTS

NET OPS / NET MANAGEMENT

NET MARKUP NETWORK SERVICE INTERFACE

DOT

.COM

IEC 61850

IEEE C37.118

314

315

316

NULL

317

IEEE 802.1AG HOP BY HOP DETECTION

IEEE 802.11 Hbh HOP BY HOP CONTROL

318

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320

321

B1

HEART

BEAT

REPLICATION BY

BEACON TECH

OR COURIER

B3 TYPE I

HOP COUNT

PAUL REVERE

322

B4 BEACON TYPE II:

WATER DROP IN POND

AREA / RADIUS

GEO SPATIO - INTENSITY

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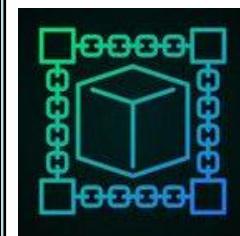
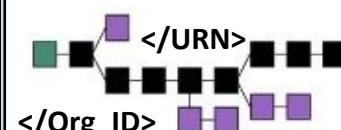
BLOCKCHAIN = ABSTRACTION

TRUTH = Blockchain Quad-lemma

No Layers L0, L1, L2...
only GENESIS EPOCH,
Epoch time cycles,
intervals, cycles

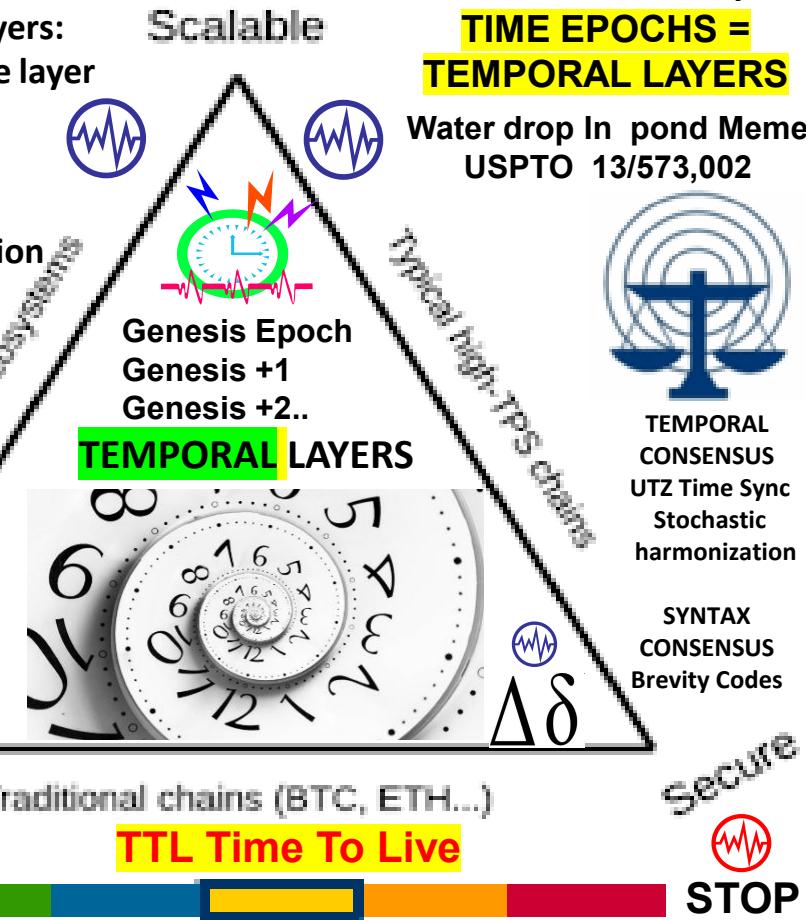
5 five blockchain tech layers:

- Infrastructure hardware layer
- Data layer
- Network layer
- Consensus layer
- Application - Presentation



Decentralized
 START

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.

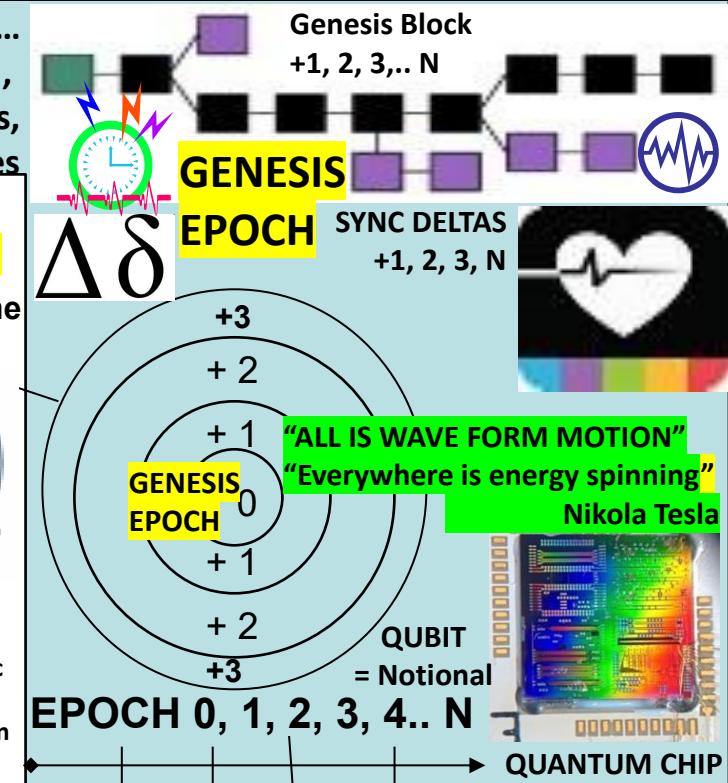


Database Flat File

"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



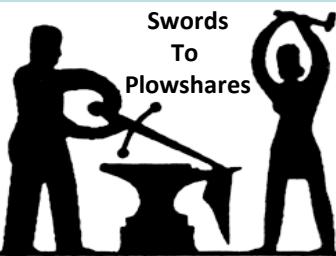
THESIS: All things net, net of programmable money are formed using:

1. Time epochs created by wave, chip oscillation i.e., 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..

World Game (s) Reset

GREAT REDESIGN



INTERNET, NET of \$\$\$ =
1. Epoch Time Cycles
2. Syntax instructions

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



$\Delta\delta$
{“URN”}
{“URN”}
{“URN”}
</URN>

Start, Stop, TTL
</Org_ID>

300 + Use Case message sets
OPSCODE BREVITY CODES
- Symbols, symbol sets

BATTLEFIELD
DIGITIZATION OOTW Operations Other than war

DISTRIBUTED STATE MACHINE

PARALLEL ECONOMIES



UTOPIA ? $\Delta\delta$ OBLIVION ?

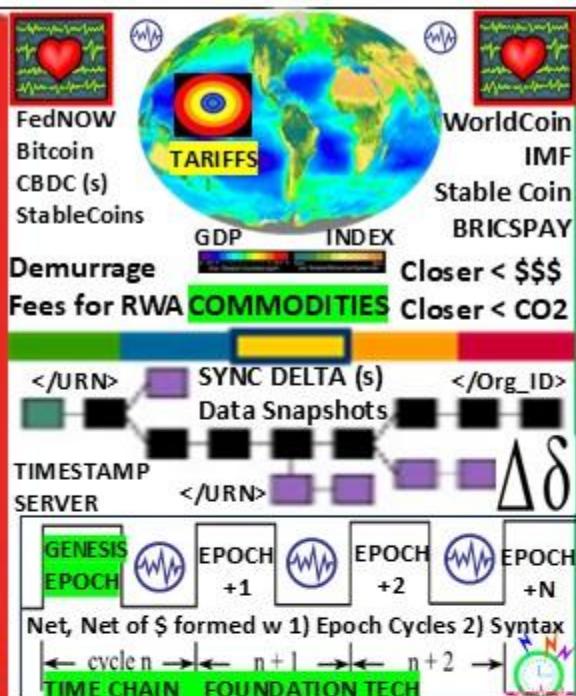
TradeFi TRC Trade Reference Currency

E \$ € ¥ currency index #20022

I.R.S. #1421 ISO CLOSER = CHEAPER < FUEL < CO2

BLOCKCHAIN CONSENSUS ALGORITHMS

HARVESTING GOLD: THOMAS EDISON'S EXPERIMENT TO RE-INVENT AMERICAN MONEY... Monetary Option 1922 BY DAVID L. HAMMES



STAT MEAN VALUE INDEX

CONTRIBUTIONS TO STATISTICS

Price Indexes in Time and Space Methods and Practice SchellingPoint

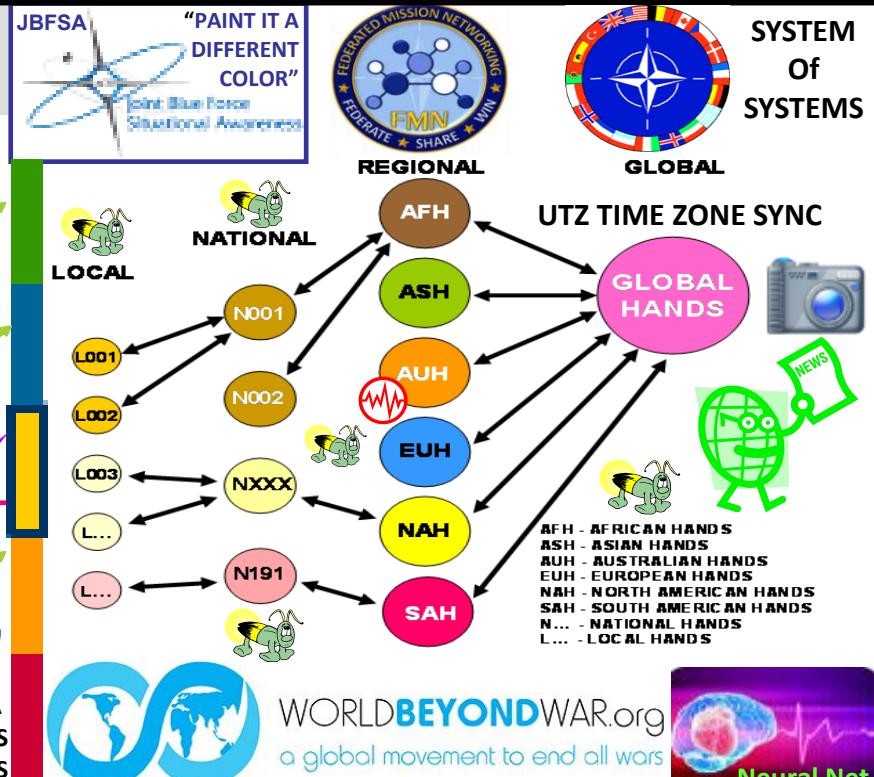


DeFi DeFi DeFi
Eco Econ Incentives TIME- SPACE METRICS METERS
HEARTBEAT % REAL GDP ("108")
ALGORITHMIC REGULATION

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

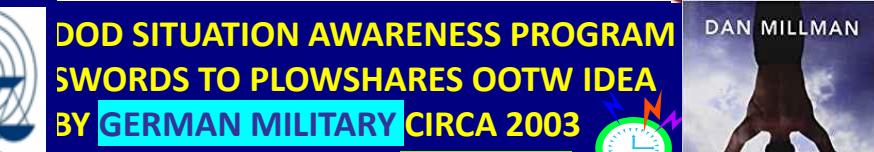




“Shared situational awareness enables collaboration synchronization, and enhances sustainability, speed of command”



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



Vernetzte Operationsführung

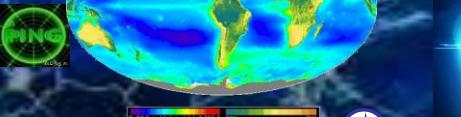


Proximity Beacons

IAF GERS



• Closer < \$\$\$ < FUEL



ALGORITHM

HEARTBEAT EVENT / ALERT Flash Heartbeat Message Bus ALGORITHM

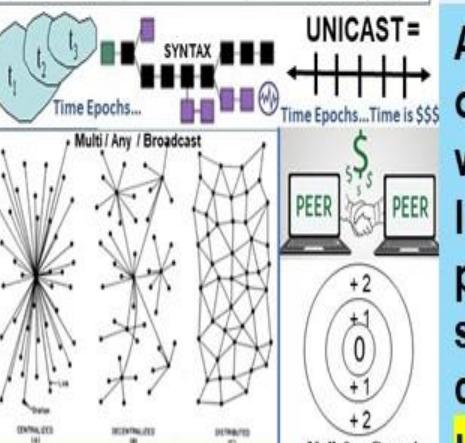
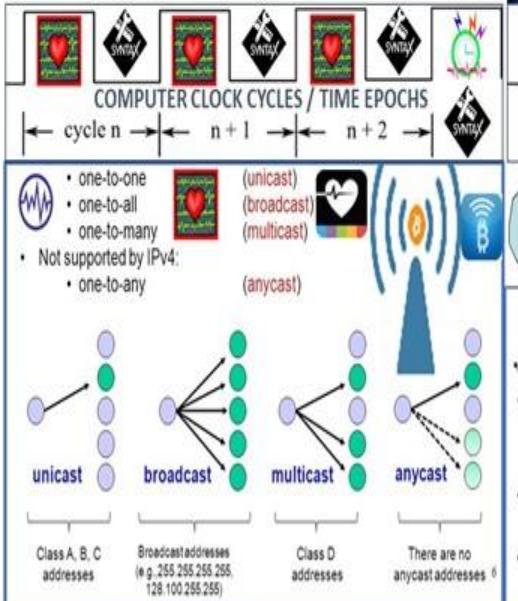
Foundation Technology Trinity:

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:

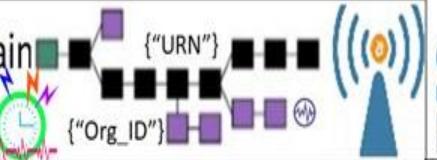
How the net, net of \$ actually work...



Epoch Time Cycles / Syntax

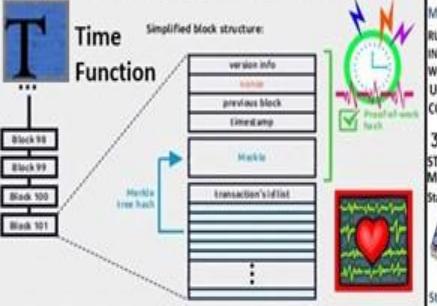
Internet / Internet of Money building blocks

Satoshi Bitcoin Blockchain
Time Stamp Server



TIME Block chain TIME

What does a block look like?



GENESIS TIME STAMP / Genesis Block

Header (Contains service information (version info, nonce, previous block id and timestamp))
Merkle (A summary hash from the block's transaction tree)

Transaction's list (Set of transaction's identification hashes, that was included into the block's merkle tree)

Semantic blockchain

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

2nd Base
The solution we propose begins with a TIME STAMP SERVER

90 feet

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

3rd Base
STATISTICIAN Metrics, Meters

Universal HEARTBEAT MESSAGE EVENT BUS

90 feet

SETTLEMENTS / EXCHANGES + TAXABLE EVENTS AGREE TO PROPERTY

IRS #421

FLASH MESSAGE EVENT BUS

State Meta Data Snapshots Survey Point

TIME STAMP SERVER

90 feet

FIRELY / Heartbeat Algo

90 feet

TIME Δδ

Sync

Sync

Sync

Sync

Sync

OPSCODE
Brevity
Codes
Mapped
To
Symbol Sets
AI

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

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

BUILDING BLOCKS



TASK ON / OFF

201

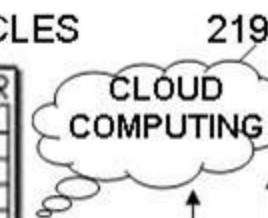
B1: BUILDING BLOCK 1: TCP/IP HEARTBEAT TIME STAMP & DATA GET / PUT OF ORG ID / URN IN MICRO / MACRO CYCLES PRIOR TO DATA FUSION CENTER INSERTION



MACRO CYCLES



.0001

MICRO CYCLES
216

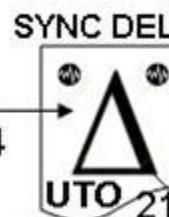
219

202 FEDERATED GROUP JOINS, MERGE, ADDS, DROPS

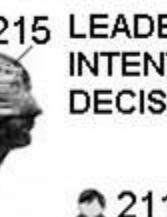
B2: BUILDING BLOCK 2: ADAPTIVE, CYCLIC, ITERATIVE PROCEDURAL TEMPLATES: XML ARTIFACTS i.e. UNIT TASK ORDER & K00.99 HEARTBEAT SYNC DELTA MESSAGES / STATE META DATA SNAPSHOTS IN NETWORK EXECUTION MANAGEMENT MARKUP OF SERVICE INTERFACE ARTIFACTS



214



UTO 213



215



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



212



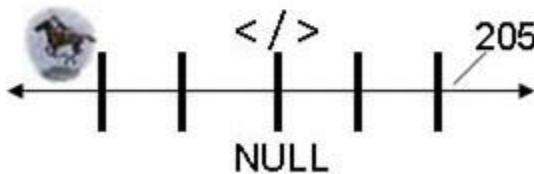
210

203

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



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



LENGTH, THRESHOLD, INTENSITY, DURATION



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

208



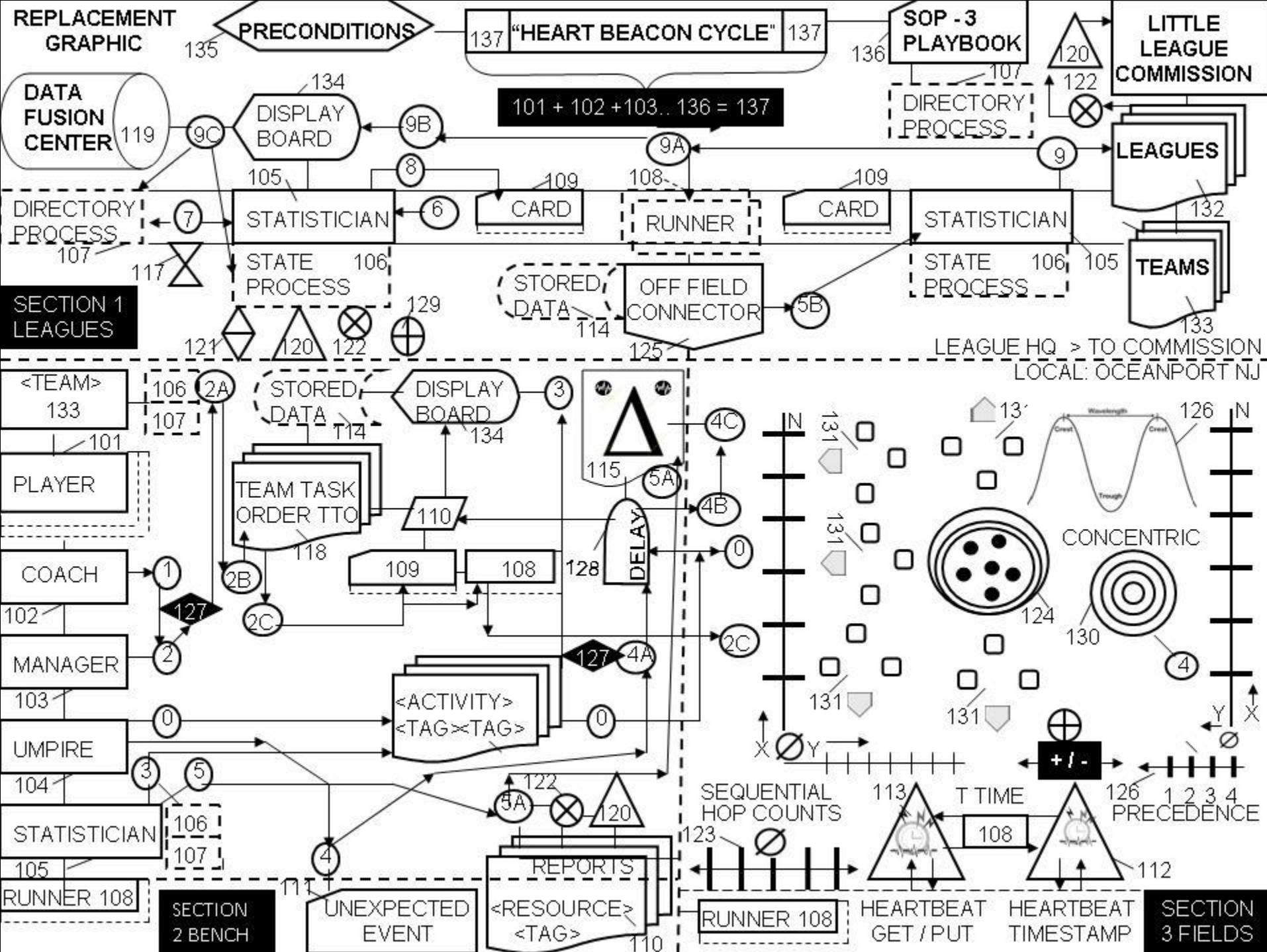
APPLIQUE' OVERLAYS

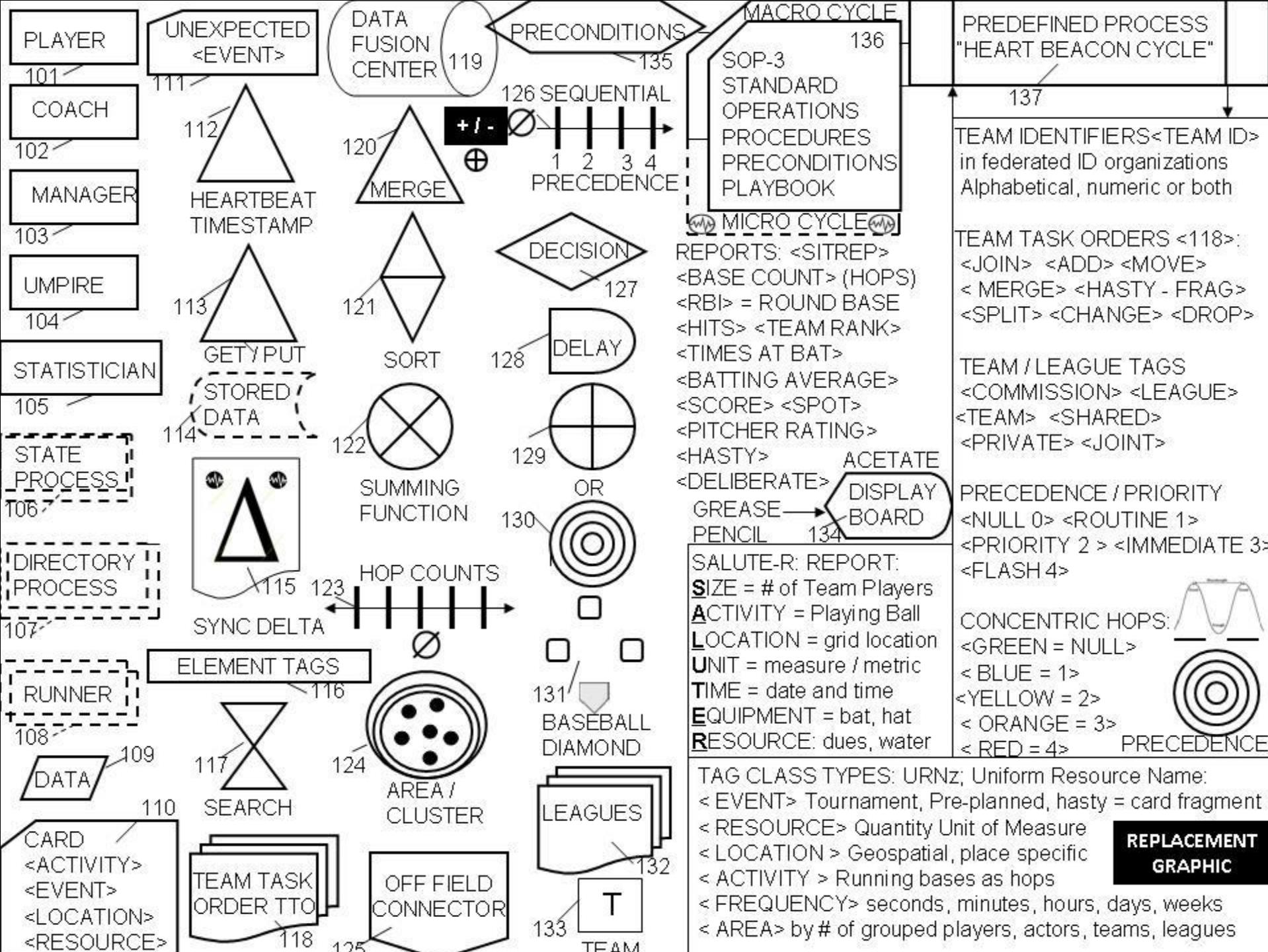


MAP VIEWS GEO-LOCATION SPECIFIC
SHOW SYNC DELTAS BY GROUP /
RESOURCE TYPE, EVENT CLASS /
NEWSCAST BY TRANCHE <CLASSES>

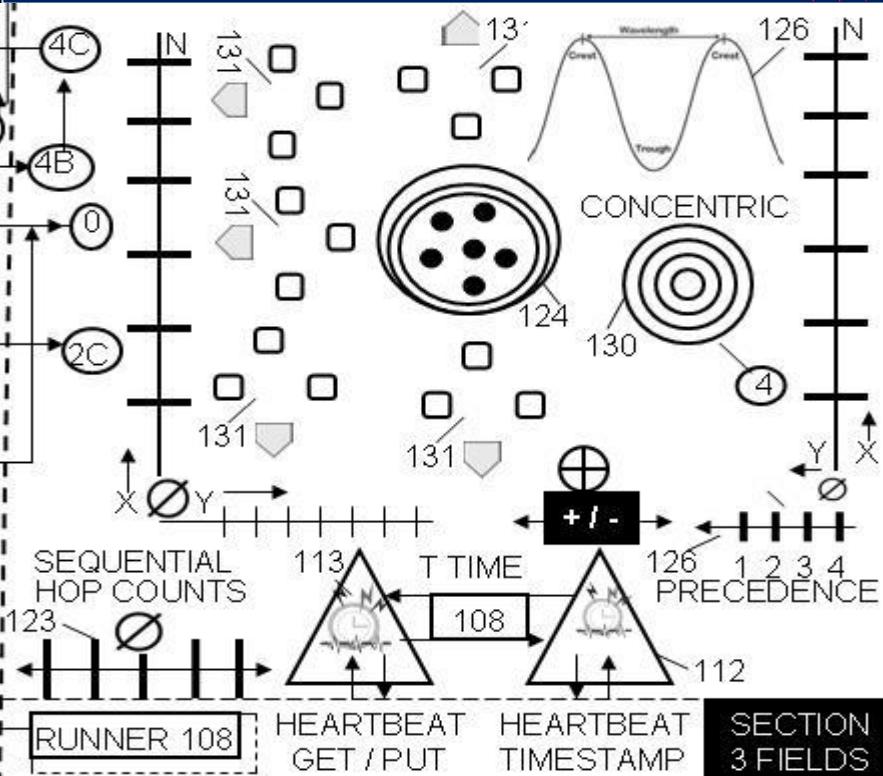
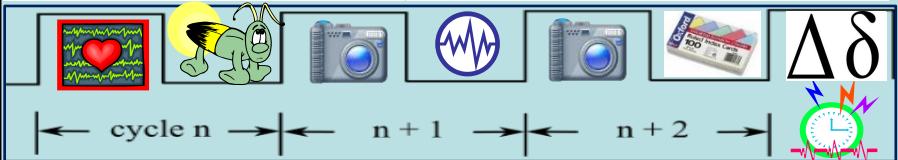
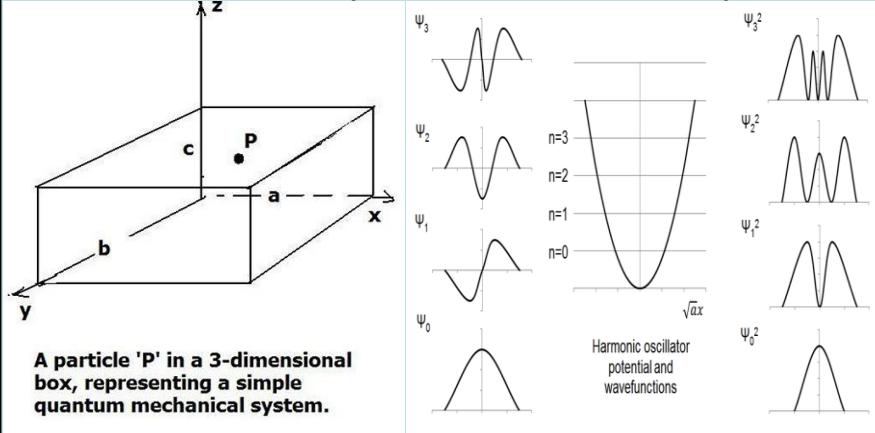
204

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





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

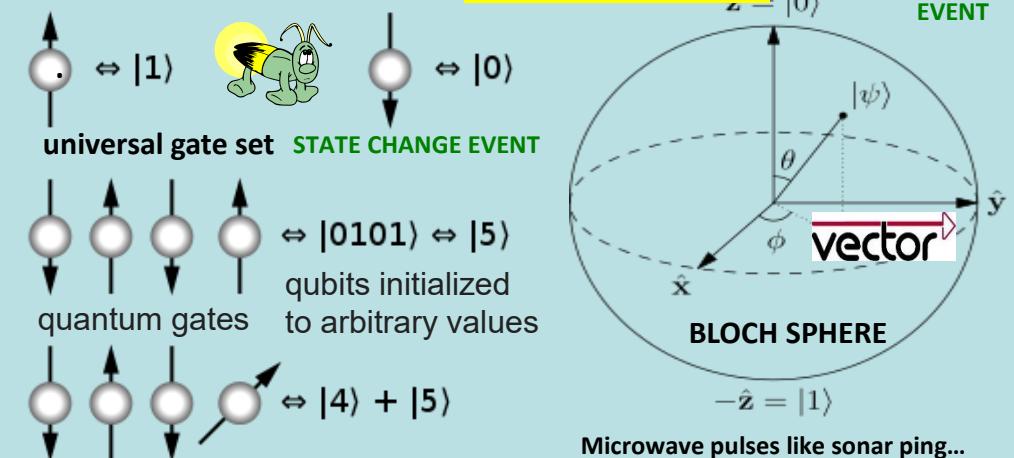
Vertical polarization vectors from a known point 0 null Sonar Hop meme



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?

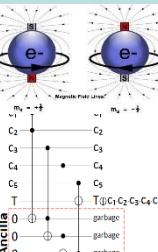


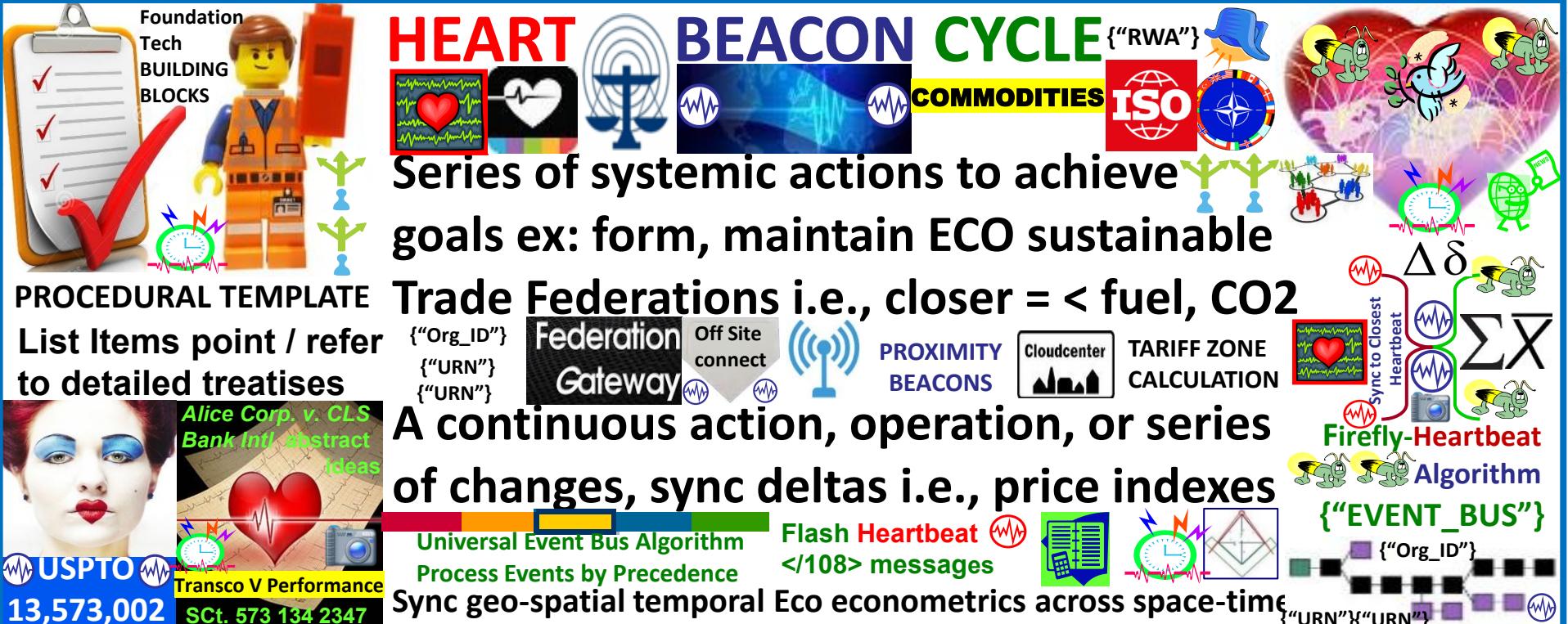
qubits can be in a superposition of all the classically allowed states

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)





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) Organization Identifiers {"Org_ID"} routing / organizing
 - 2) Track RWA Real World Assets / Commodities by </URN>
 - 3) DISTRIBUTED STATE MACHINE SNAPSHOTS @ 15 / N min
 - 4) TARIFF TOOL ZONE CALCULATION w Space – Time Metrics
 - 5) NIST Quantum Random Number Beacon QRNB
- USPTO 13/573,002 = Spaceship Earth's Signals & Telemetry Annex



Structured Data Exchange

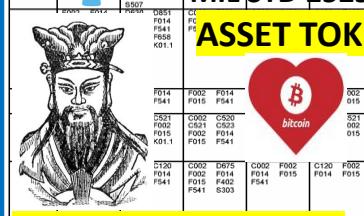


SYNTAX LEXICON
ROSETTA STONE

Coder's Guide lexicon.

STRUCTURED
<CONTENT>
EXCHANGE
TEMPLATES

MIL STD 2525ABC



"SYMBOLS RULE THE WORLD"

11.8 - Kinematic
11.8.1 - Pos
11.8.1.1 -
11.8.1 -

XBRL™
THE BUSINESS REPORTING STANDARD
BINARY XML
Decision

1.1 - Observers
1.2.3 - Predicted
1.2.4 - Smoothed Data
3 - Position
1.3.1 - Bearing Angle
1.3.2 - Location; 2D Hor
1.3.3 - Vertical
4 - Velocity

1 - Horizontal
2 - Vertical
TOSCA
Confidence
Bearing Angle
Bearing Angle Rate
Covariance Matrix

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



{"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



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 /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) 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

SYMBOLS

Partner

Competitor

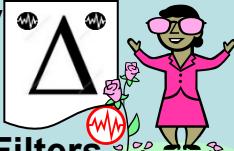
MILITARY OPERATIONS

SYMBOLS

Competitor</

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

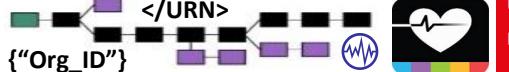
DATA SYSTEM FUNCTIONS PERFORMANCE

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



MIL STD 2525A, B, C, D



20022



SYNTAX LEXICON
ROSETTA STONE

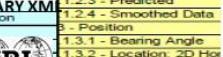
Coder's Guide lexicon

STRUCTURED <CONTENT> EXCHANGE TEMPLATES	
MIL	STD 2525ABC
MIL	ASSET TOKENS
MIL	"SYMBOLS RULE THE WORLD"
MIL	11.8 - Kinematics
MIL	11.8.1 - Pos.
MIL	11.8.1.1 -

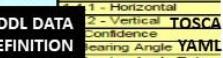
STRATML



xBRL XAML



UBL



DDL DATA DEFINITION LANGUAGE



TOSCA



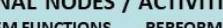
YAML



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

11.4.1.2 - Estimate Type

11.4.1.2.1 - Alternative

11.4.1.2.2 - Evaluated

11.4.1.3 - Value

PURCHASE CODES

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

11.4.1.3.6 - Velocity

11.4.1.2.1 - Horizontal

11.4.2.2 - Vertical

11.4.1.1.1 - Angular

11.4.1.2.2 - Estimated

11.4.2.2.2 - Observed

11.4.3.2 - Predicted

11.4.4.2 - Smoothed

11.4.5.2 - Covariance Matrix

11.4.1.3.7 - Position

11.4.1.2.3 - Bearing Angle

11.4.2.3 - Location; 2D Hor

11.4.3.3 - Vertical

11.4.4.3 - Horizontal

11.4.5.3 - Depth

11.4.1.3.8 - Confidence

11.4.1.2.4 - Smoothed Data

11.4.2.4 - Predicted Data

11.4.3.4 - Observed Data

11.4.4.4 - Estimated Data

11.4.5.4 - Covariance Matrix

11.4.1.3.9 - Interest

11.4.1.2.5 - Distance

11.4.2.6 - NDN

11.4.3.7 - Interest

11.4.4.8 - Interest

11.4.5.9 - Interest

11.4.1.3.10 - Interest

11.4.1.2.11 - Interest

11.4.2.12 - Interest

11.4.3.13 - Interest

11.4.4.14 - Interest

11.4.5.15 - Interest

11.4.1.3.16 - Interest

11.4.1.2.17 - Interest

11.4.2.18 - Interest

11.4.3.19 - Interest

11.4.4.20 - Interest

11.4.5.21 - Interest

11.4.1.3.22 - Interest

11.4.1.2.23 - Interest

11.4.2.24 - Interest

11.4.3.25 - Interest

11.4.4.26 - Interest

11.4.5.27 - Interest

11.4.1.3.28 - Interest

11.4.1.2.29 - Interest

11.4.2.30 - Interest

11.4.3.31 - Interest

11.4.4.32 - Interest

11.4.5.33 - Interest

11.4.1.3.34 - Interest

11.4.1.2.35 - Interest

11.4.2.36 - Interest

11.4.3.37 - Interest

11.4.4.38 - Interest

11.4.5.44 - Interest

11.4.1.3.45 - Interest

11.4.1.2.46 - Interest

11.4.2.47 - Interest

11.4.3.48 - Interest

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11.4.1.2.52 - Interest

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11.4.1.3.57 - Interest

11.4.1.2.58 - Interest

11.4.2.59 - Interest

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11.4.5.62 - Interest

11.4.1.3.63 - Interest

11.4.1.2.64 - Interest

11.4.2.65 - Interest

11.4.3.66 - Interest

11.4.4.67 - Interest

11.4.5.69 - Interest

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11.4.1.2.71 - Interest

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11.4.1.2.79 - Interest

11.4.2.80 - Interest

11.4.3.81 - Interest

11.4.4.83 - Interest

11.4.5.85 - Interest

11.4.1.3.86 - Interest

11.4.1.2.87 - Interest

11.4.2.88 - Interest

11.4.3.89 - Interest

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11.4.5.93 - Interest

11.4.1.3.94 - Interest

11.4.1.2.95 - Interest

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11.4.4.99 - Interest

11.4.5.101 - Interest

11.4.1.3.102 - Interest

11.4.1.2.103 - Interest

11.4.2.104 - Interest

11.4.3.105 - Interest

11.4.4.107 - Interest

11.4.5.109 - Interest

11.4.1.3.110 - Interest

11.4.1.2.111 - Interest

11.4.2.112 - Interest

11.4.3.113 - Interest

11.4.4.115 - Interest

11.4.5.117 - Interest

11.4.1.3.118 - Interest

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11.4.5.125 - Interest

11.4.1.3.126 - Interest

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11.4.1.3.136 - Interest

11.4.1.2.137 - Interest

11.4.2.138 - Interest

11.4.3.140 - Interest

11.4.4.142 - Interest

11.4.5.146 - Interest

11.4.1.3.147 - Interest

11.4.1.2.148 - Interest

11.4.2.149 - Interest

11.4.3.151 - Interest

11.4.4.153 - Interest

11.4.5.157 - Interest

11.4.1.3.158 - Interest

11.4.1.2.159 - Interest

11.4.2.160 - Interest

11.4.3.162 - Interest

11.4.4.164 - Interest

11.4.5.168 - Interest

11.4.1.3.169 - Interest

11.4.1.2.170 - Interest

11.4.2.171 - Interest

11.4.3.173 - Interest

11.4.4.175 - Interest

11.4.5.179 - Interest

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11.4.1.2.181 - Interest

11.4.2.182 - Interest

11.4.3.184 - Interest

11.4.4.186 - Interest

11.4.5.191 - Interest

11.4.1.3.192 - Interest

11.4.1.2.193 - Interest

11.4.2.194 - Interest

11.4.3.196 - Interest

11.4.4.198 - Interest

11.4.5.204 - Interest

11.4.1.3.205 - Interest

11.4.1.2.206 - Interest

11.4.2.207 - Interest

11.4.3.209 - Interest

11.4.4.211 - Interest

11.4.5.218 - Interest

11.4.1.3.219 - Interest

11.4.1.2.220 - Interest

11.4.2.221 - Interest

11.4.3.223 - Interest

11.4.4.225 - Interest

11.4.5.232 - Interest

11.4.1.3.233 - Interest

11.4.1.2.234 - Interest

11.4.2.235 - Interest

11.4.3.237 - Interest

11.4.4.241 - Interest

11.4.5.249 - Interest

11.4.1.3.250 - Interest

11.4.1.2.251 - Interest

11.4.2.252 - Interest

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11.4.4.256 - Interest

11.4.5.263 - Interest

11.4.1.3.264 - Interest

11.4.1.2.265 - Interest

11.4.2.266 - Interest

11.4.3.268 - Interest

11.4.4.270 - Interest

11.4.5.279 - Interest

11.4.1.3.280 - Interest

11.4.1.2.281 - Interest

11.4.2.282 - Interest

11.4.3.284 - Interest

11.4.4.286 - Interest

11.4.5.295 - Interest

11.4.1.3.296 - Interest

11.4.1.2.297 - Interest

11.4.2.298 - Interest

11.4.3.299 - Interest

11.4.4.301 - Interest

11.4.5.302 - Interest

11.4.1.3.303 - Interest

11.4.1.2.304 - Interest



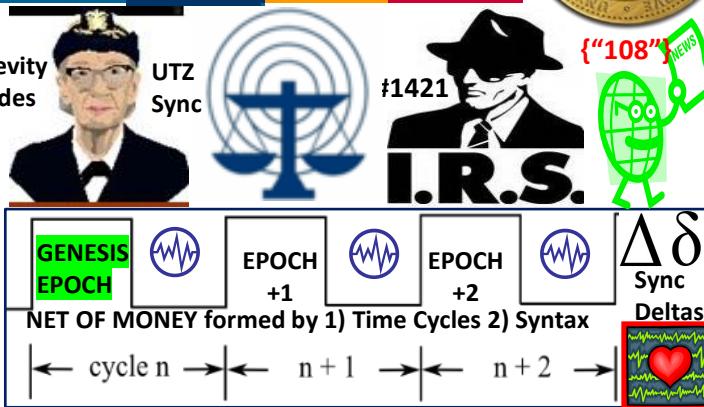
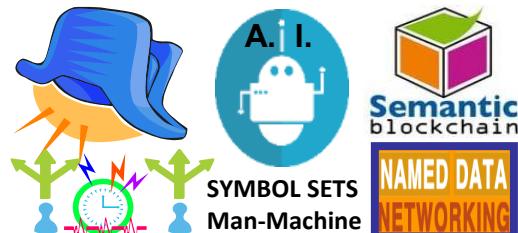
World Game Great Reset

Signals Telemetry Annex K



Net, net of money \$\$\$ formed w:

- 1. Epoch time cycles created by silicon chips
 - 2. Syntax code instructions in epoch time cycles
 - 3. Time Stamp Server w/event message bus



Syntax lexicon comprised of 300 +

Structured data messages, message sets =

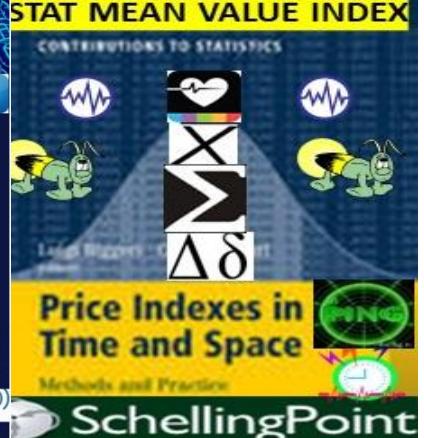
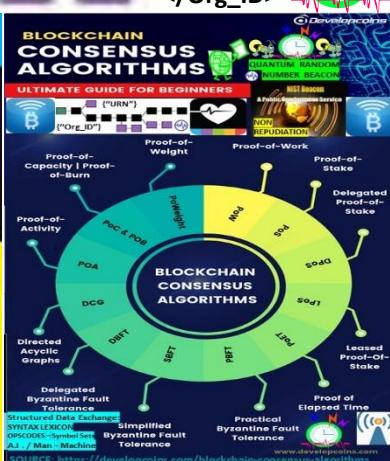
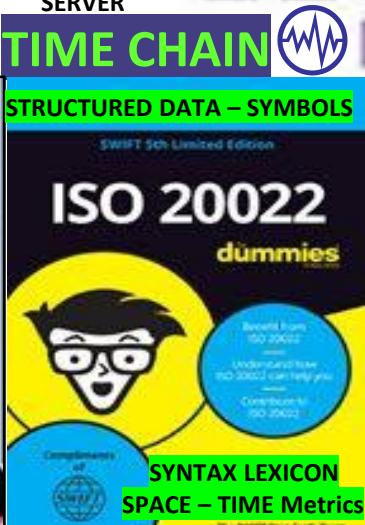
Comprehensive list of use cases, data

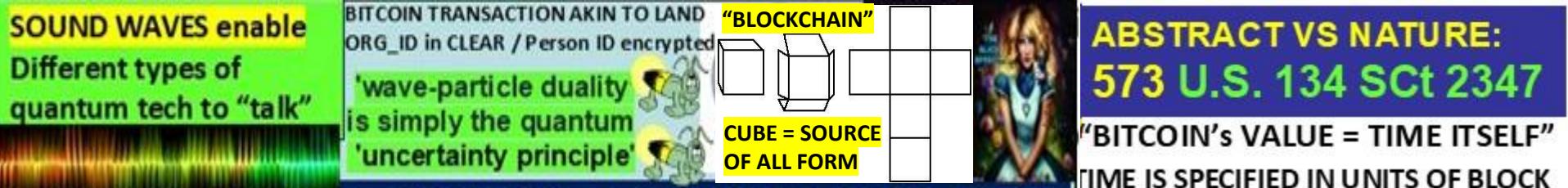
elements supporting Internet of Everyt

IoE net of value. Reference guide, data

dictionary standards support

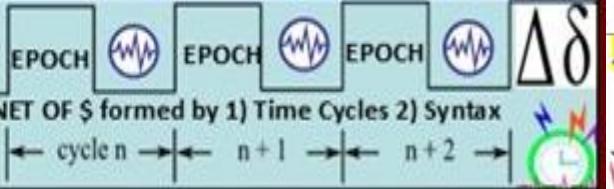
Data elements mapped to SYMBOL SETS





TIME EPOCHS & SYNTAX = FOUNDATION TECH

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



SCOTUS Alice in Wonderland Ruling 2014 ABSTRACTIONS MAY NOT BE CLAIMED:

Chain Abstraction: Simplifying the Complex World of Blockchain

The Net, Net of Money (Cryptocurrency)

Does not have / has no:

- LAYERS i.e., seven layer internet model
- BLOCKS on the BLOCKCHAIN
- Blockchain data stored in a CUBE
- QUBIT (S) quantum two state system
- Packets i.e., Vinton Cerf's "ode to a packet"
Nikola Tesla "All is wave form motion"

Lightchain AI introduces Proof of Intelligence (PoI), consensus mechanism designed to reward nodes for performing AI computations i.e., model training, inference, optimization...

INTERNET, NET OF \$\$\$ TRUTH = WAVE FORMS

All computing is essentially workflow logic

If, then, else then do {'task'} multicasted, Unicasted, anycasted / filtered over TCP / IP



Qubit vs bit: Qubits are represented by a superposition of multiple possible states. A qubit uses the quantum mechanical phenomena of superposition to achieve a linear combination of two states. A classical binary bit can only represent a single binary value, such as 0 or 1, meaning that it can only be in one of two possible states. A qubit, however, can represent a 0, a 1, or any proportion of 0 and 1 in superposition of both states, with a certain probability of being a 0 and a certain probability of being a 1.

Q: ARE WE ABSOLUTELY CERTAIN QUBITS EXIST ?

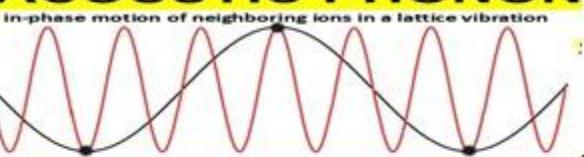
Q: IF CUBITS DO NOT EXIST, THEN ARE THEY SIMPLY A WAY TO ACHIEVE GROUP THINK FASTER ???

Q: 1/3 of an event (transaction) ... really ???

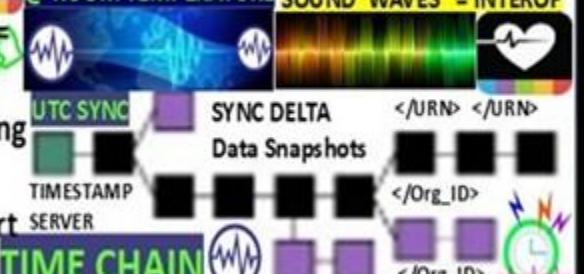
**ABSTRACT VS NATURE:
573 U.S. 134 S.Ct 2347**
"BITCOIN'S VALUE = TIME ITSELF"
TIME IS SPECIFIED IN UNITS OF BLOCK TRANSACTION CONFIRMATION TIMES"

FISHER INFORMATION FLUX FLOWS

ACOUSTIC PHONON



SOUND / LIGHT e.g., Q.R.N.B. QUANTUM COMPUTING @ ROOM TEMPERATURE SOUND WAVES = INTEROP

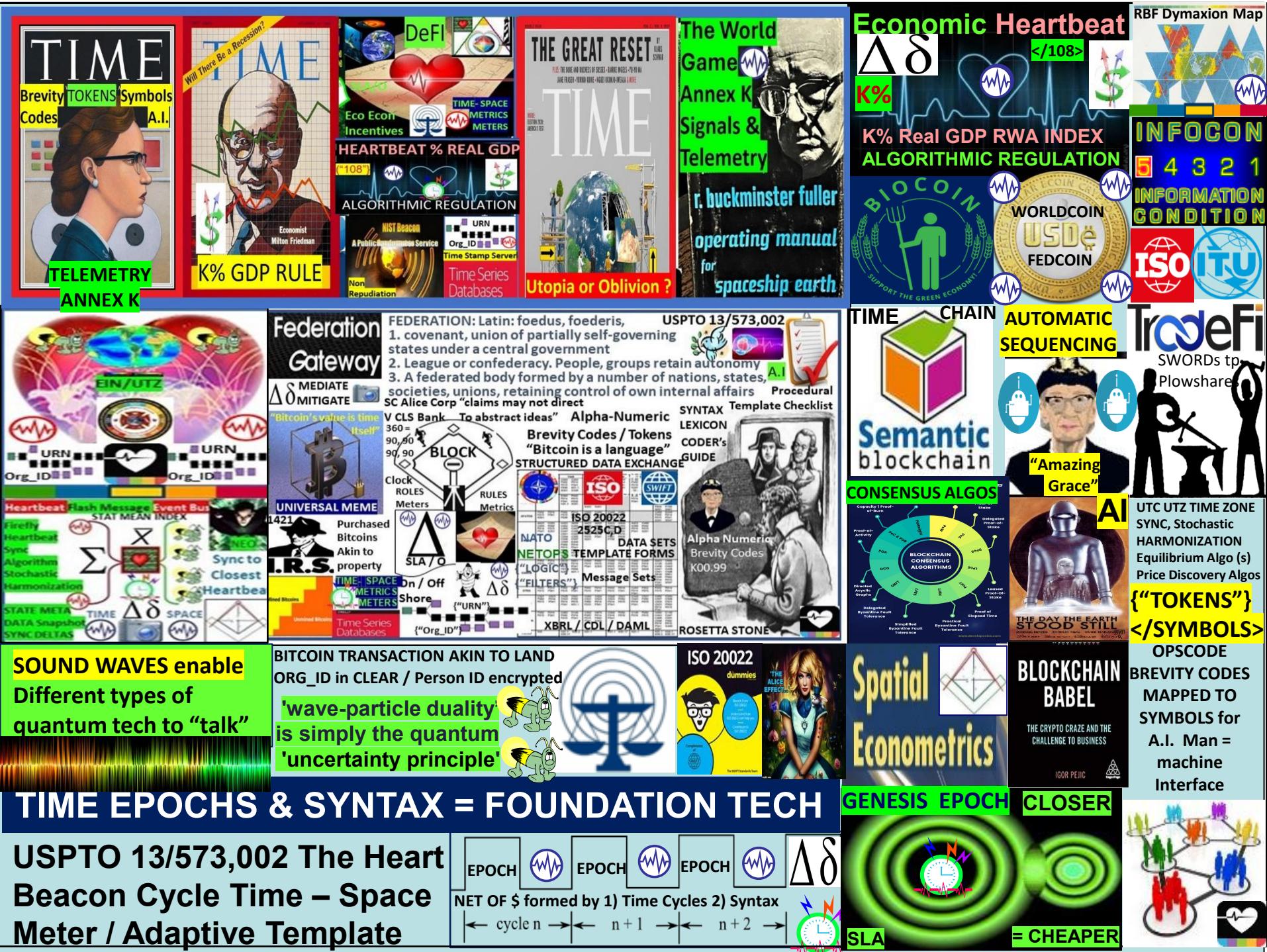


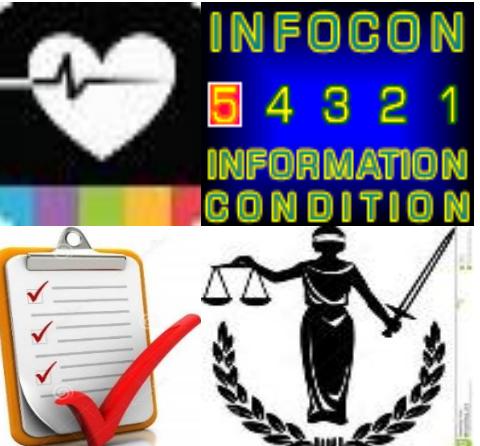
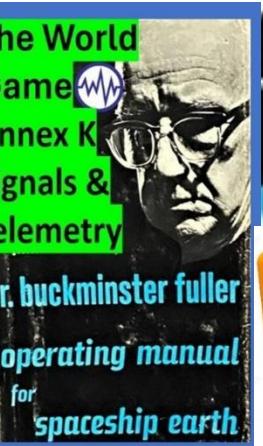
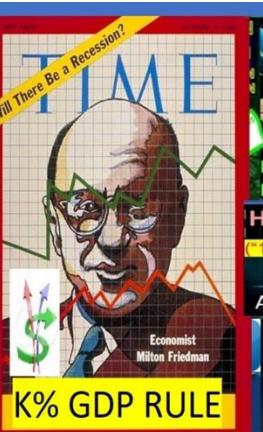
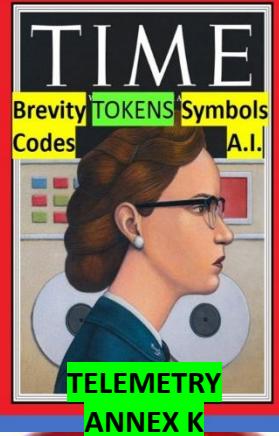
Net of \$\$\$ formed with:
1 EPOCH TIME CYCLES

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"





- 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.

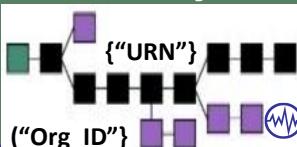
Numismatics: study of currency

Marcus Aurelius



Legend: IMP. M.
ANTONINVS
AVG. TR. P. XXV.

THE TERRA (TRC) Trade Reference Currency



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..



Roman Denominations



Images Courtesy Of: Roma Numismatics Ltd, Numismatica Ars Classica, Bertolami Fine Arts, Nomos, & The State Museum in Berlin

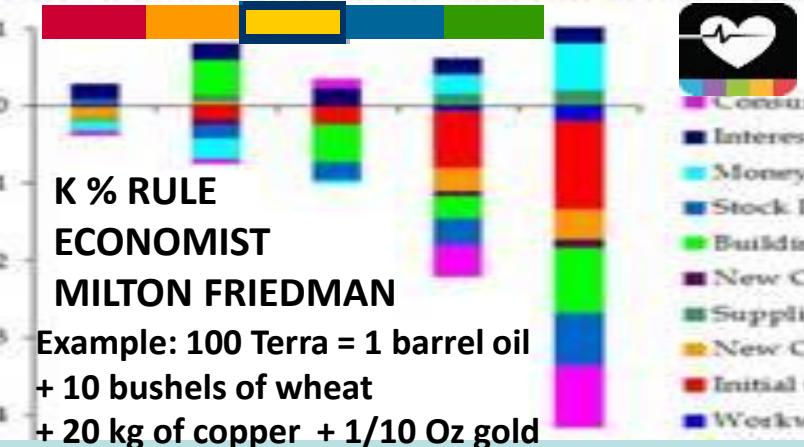
Commodities Index Basket / FIAT PRICE Discovery Algo / MEDIATION



BRONZE / LEAD / AES SIGNATUM AES GRAVE / SILVER / LEAD / IRON..

Unlike most modern coins, Roman coins had (at least in the early centuries) significant intrinsic value. However, while the gold and silver issues contained precious metals, the value of a coin could be slightly higher than its precious metal content, so they were not, strictly speaking, equivalent to bullion. Also, over the course of time the purity and weight of the silver coins were reduced.[15] Estimates of the value of the denarius range from 1.6 to 2.85 times its metal content,[citation needed] thought to equal the purchasing power of 10 modern British pound sterling at the beginning of the Roman Empire to around 18 pound sterling by its end (comparing bread, wine, and meat prices) and, over the same period, around one to three days' pay for a legionary.[16]

LEADING ECONOMIC INDICATORS



Heart Beacon Cycle

FEDERATE / TRADE FEDERATIONS



ECONOMIC HEARTBEAT
K %



BITNATION



FEDERATE
SHARE
WIN



WIN

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

FEDERATION CONSENSUS
ALGORITHM / PROTOCOL
LIQUIDITY ON DEMAND



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

Federation
Gateway



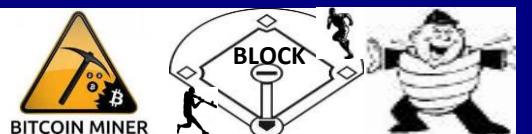
{"GLOBAL"}
{"SHARED"}
{"DOMAIN"}
{"COMMUNITY"}
{"PRIVATE"}
</ORG_ID>
{"GROUP ID"}

SYSTEMATIC

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

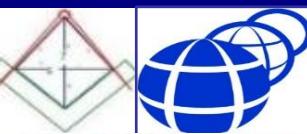
term coined circa 1991 now in use by Blockchain tech corporations

Uniform_Resource_Name



FIREFLY FLASH
HEARTBEAT MESSAGES

</RESOURCE> {"URN"}
{"Asset_Class"} </URN>



IeT DEVICE / PLATFORM
IoT SENSOR DEVICE



{"Asset_Type"}



STOCK EXCHANGE

MIC MARKET IDENTIFIER
CODES / BREVITY CODES



{"DUNS #"} {"Org_ID"} Heartbeat Snaps
QR CODE
{"URN"} {"URN"} {"URN"} MICRO-CYCLES



Signalling, Telemetry
EVENT BUS



DeFi Ve TOKEN ECONOMY



UUID 123e4567-e89b-12d3-a456-426655440000
UUID 123e4567-e89b-12d3-a456-426655440001
UUID 123e4567-e89b-12d3-a456-426655440002



FEDERATE: COMMON GOALS SYNCHRONIZED IN SPACE - TIME



Net of \$\$\$ formed with:

1 EPOCH TIME CYCLES

2 {"Syntax"} "The Word"

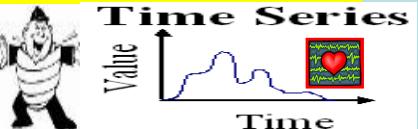
"In the Beginning" Genesis Block

"net, net of money are formed using wave form motion 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



STRUCTURED DATA EXCHANGE

TEMPLATE FORMS

300+ USE CASES

LOGIC / FILTERS

SYNTAX / SYMBOL LEXICON LIBRARY



SYNTAX LEXICON

Library

1st Compiler

Real

World

Assets

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



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

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

= TAXABLE EVENTS

AKIN TO PROPERTY

IRS #1421

FLASH MESSAGE EVENT BUS

FIX {"108"}

TIME STAMP SERVER

home plate

Epoch Time Cycles

Time Stamp Server

Time Stamp

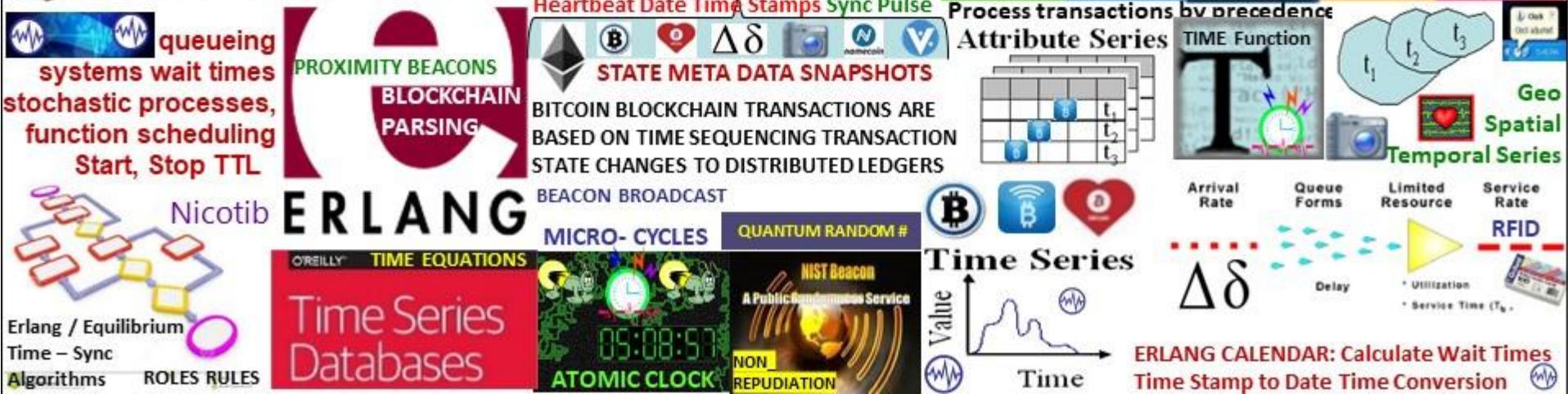
Time Cycles

Time Stamp

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.



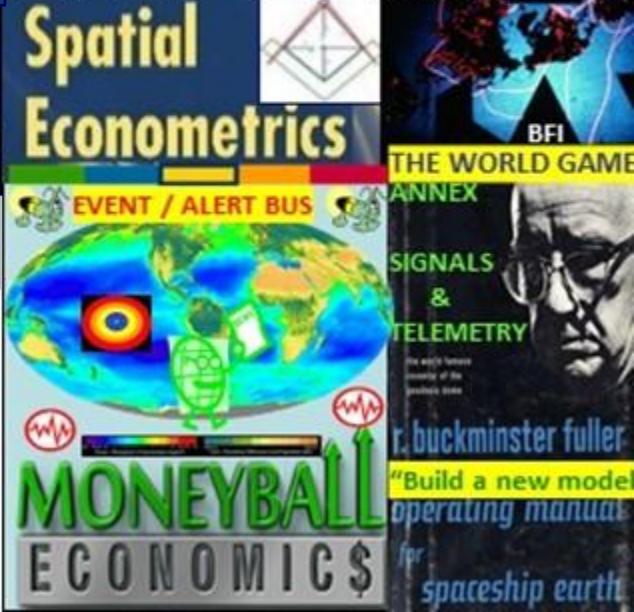
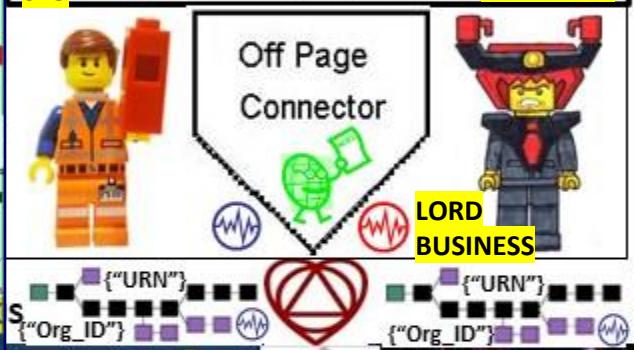
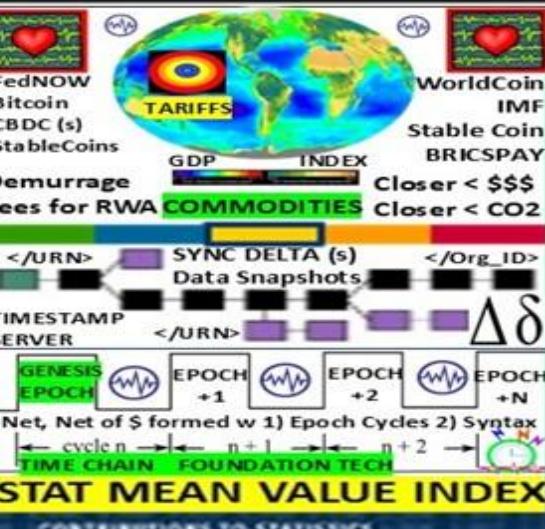
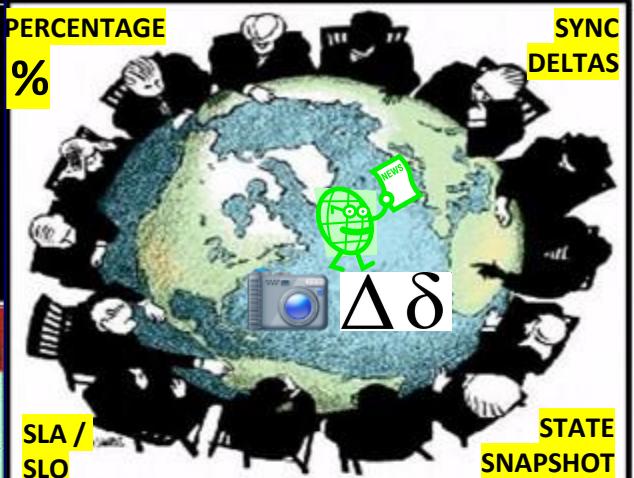
World Game (s) Fulcrum

Schelling point: a.k.a. focal point, is a solution people tend to choose by default in the absence of communication to avoid coordination failure

introduced by the economist Thomas Schelling in his book "The Strategy of Conflict" published in 1960.

Schelling points are particularly useful in **multiplayer games** where players respond based on what they think the other person's response will be.

Give me a lever long enough and a fulcrum on which to place it, and I shall move the world.
Archimedes



Circle USDC

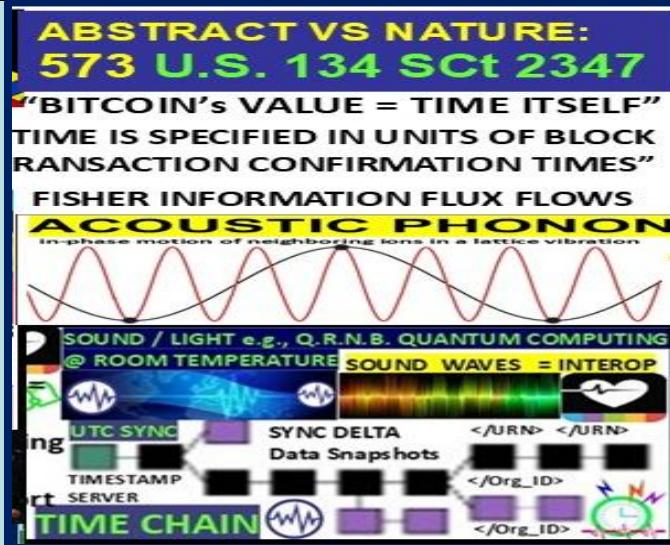
Investopedia

Stablecoins are cryptocurrencies whose value is pegged, or tied, to that of another currency, commodity, or financial instrument.

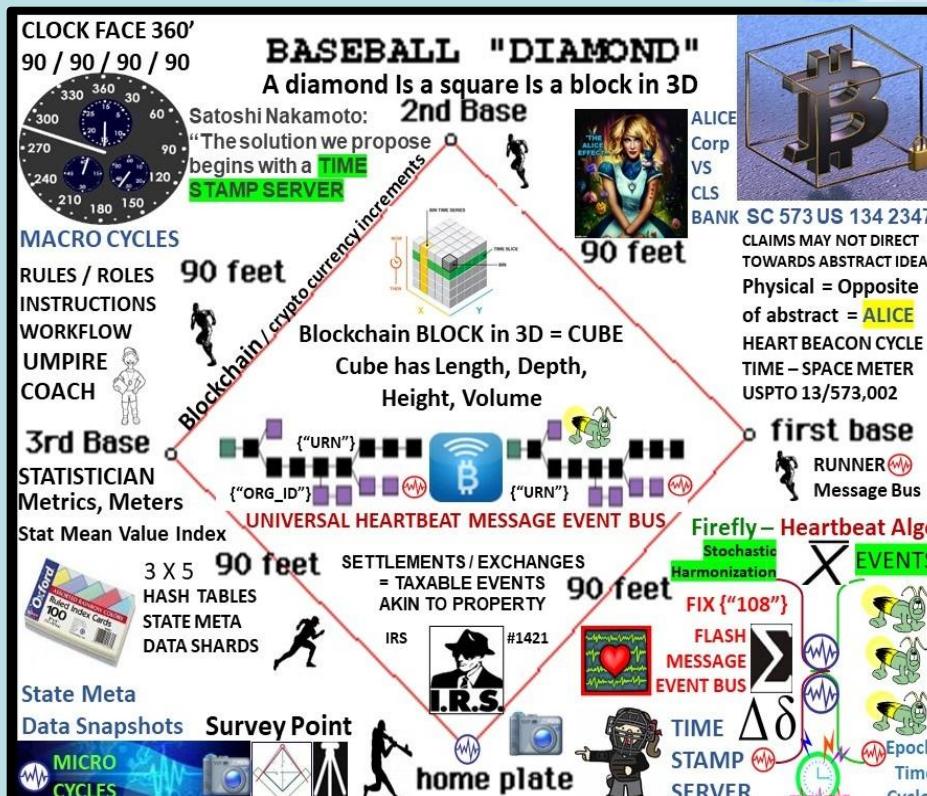
Stablecoins aims to provide an alternative to the high volatility of the most popular cryptocurrencies, Source JDSUPRA



Circle Financial Ltd lawsuit brought by Veritasium Capital for alleged infringement of its digital-asset trading patent. U.S. District Court for the Eastern District of Texas, No. 2:22-cv-00498



TESLA "ALL IS WAVE FORM MOVEMENT"

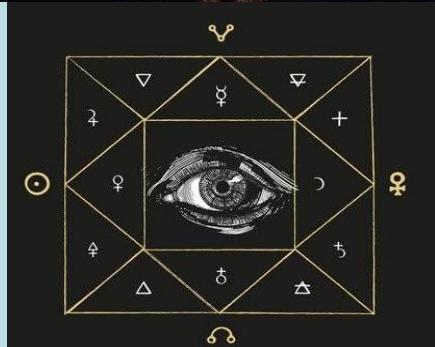


NOSTRADAMUS of FRANCE CENTURY 8: QUATRAIN 28:

"The copies of gold and silver inflated,
after the theft were thrown into the lake,
At the discovery that all is exhausted and
dissipated by the debt,
All scripts and bonds will be wiped out."



"FutureMan"
13/573,002



**"THE FINANCIAL
NOSTRADAMUS"**
REGGIE MIDDLETON

Reggie Middleton
"Father of DeFi"

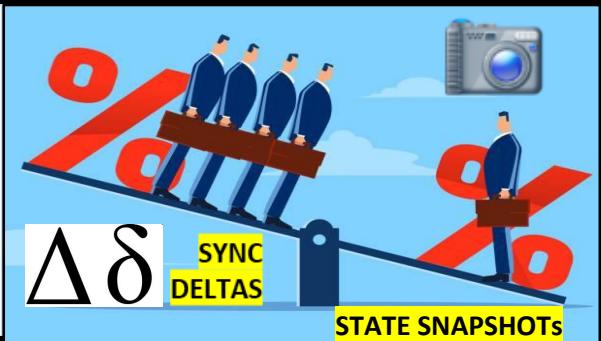
US11196566
US11895246
JP6813477

World Game (s) Fulcrum

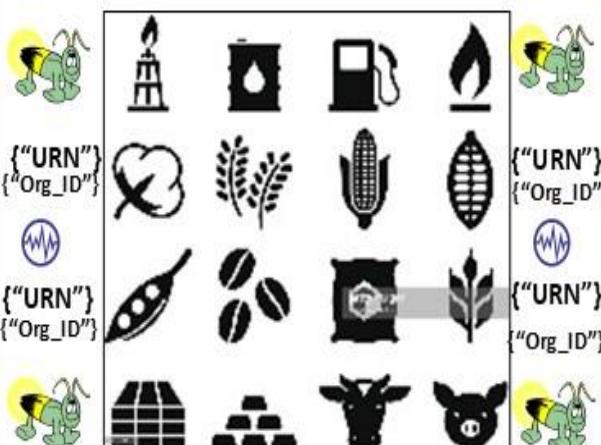
Schelling point: focal point = solution chosen by default in the absence of communication to avoid coordination failure introduced by the economist Thomas Schelling in his book "The Strategy of Conflict" published in 1960. Schelling points are particularly useful in **multiplayer games** where players respond based on what they think the other person's response will be.

Schelling Point Conference: focuses on the intersection of **cryptocurrency and social good**, bringing together innovators, thought leaders, and advocates to explore how **blockchain** tech can create positive change.

Schelling points are not always definite solutions and their conspicuousness can depend on time, place, and individuals



Commodities Index Basket / FIAT PRICE Discovery Algo / MEDIATION



THE NEW QUANTUM FINANCIAL SYSTEM





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.

SCOTUS ALICE CORP VS CLS BANK 2014 RULING: ABSTRACT VS TANGIBLE

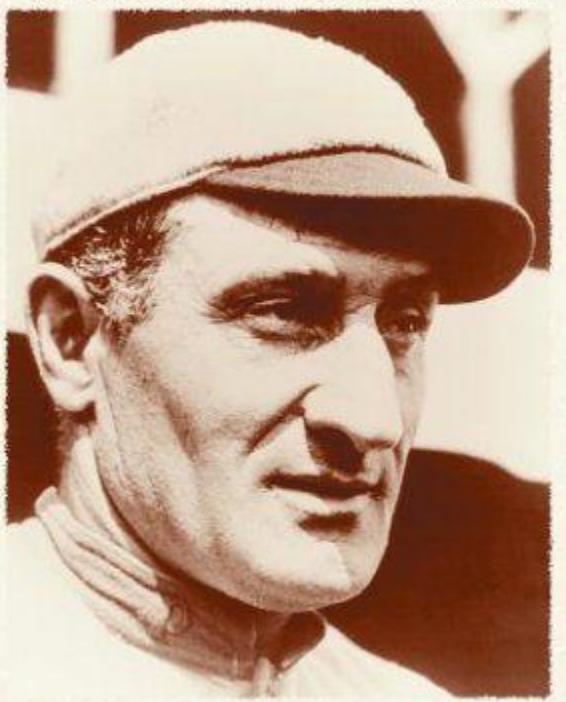
USPTO 13/573,002 PRIOR ART

Physical = Opposite of Abstract

Q: WHO IS “SATOSHI NAKAMOTO” ?

HONUS WAGNER

THE LIFE OF BASEBALL'S "FLYING DUTCHMAN"



Arthur D. Hittner



Baseball fields have standard measurements for various components, including the infield and outfield. The infield consists of a diamond with 90 feet between the bases and a pitching distance of 60 feet 6 inches for adult and senior leagues. Home plate is located 90ft away from first base to the right and third base on the left. Bases are positioned at 90-degree angles from home plate.



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..

XRP = 10,000 Each ?

RIPPLE LABS / XRP

Honus Wagner NFT Non-Fungible Cryptocurrency Token

Honus Wagner is a legendary baseball player

T206 Honus Wagner card sold \$6.6 million August 2021

This highlights the cultural and financial significance of Honus Wagner memorabilia, which could potentially be replicated in the digital space with NFTs (AI web search)

Defunct crypto exchange Mt. Gox has said that a repayment date will be set in "due course"
February 7th 2014 trading halted

The logo consists of the letters "MT." in a large orange font, followed by a smaller gray "G".

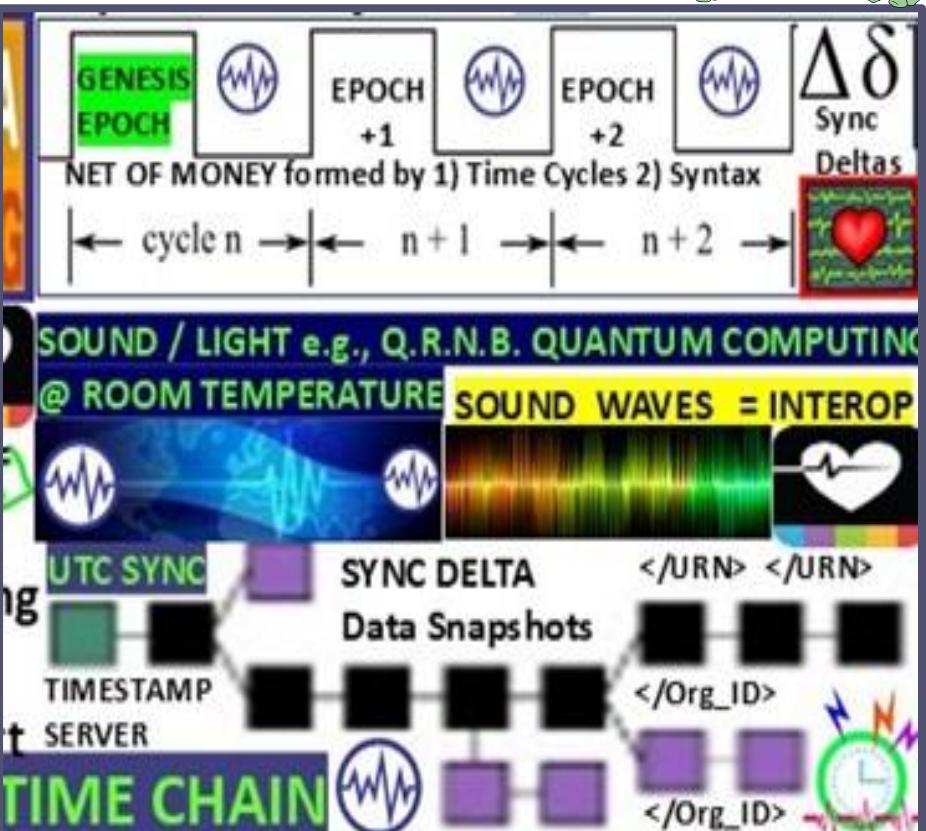
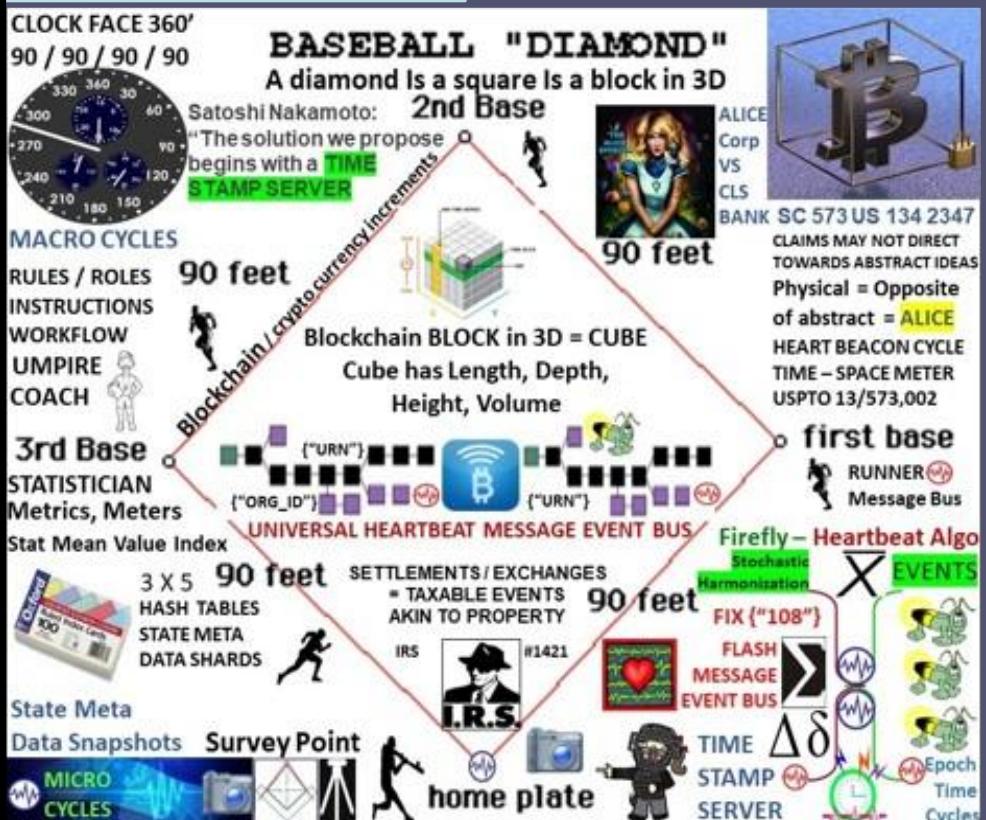
Defunct crypto exchange Mt. Gox has said that a repayment date will be set in "due course"
February 7th 2014 trading halted

The logo for Mt. Gox, featuring the text "MT.GOX" in a stylized font. The letters "MT." are orange, "GOX" is grey, and there is a large orange arrow pointing upwards through the "O" and "X". Below the main text is the "MIT" Technology Review logo.



The World Game's (s) Great Redesign TELEMETRY CONTROL GRID SYNC MATRIX ADAPTIVE PROCEDURAL TEMPLATE

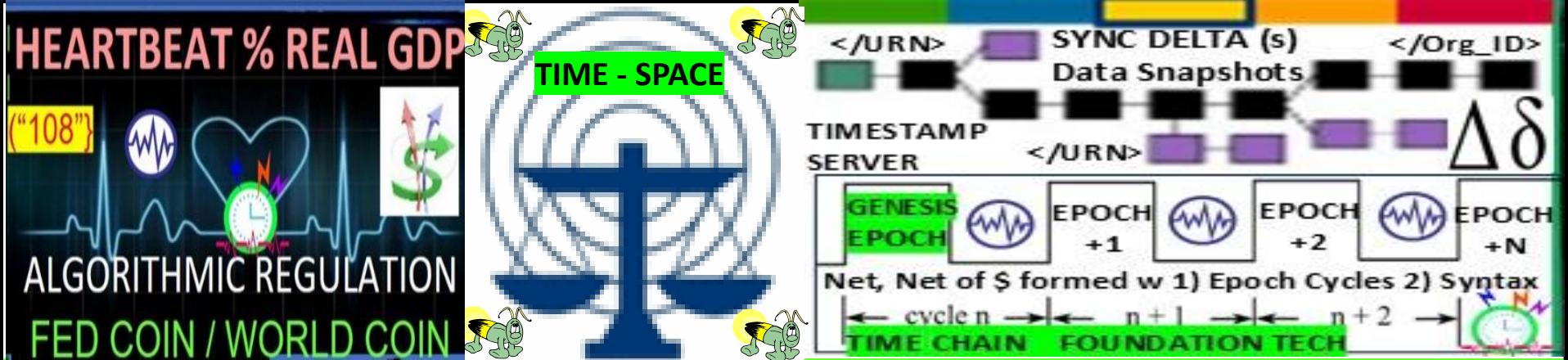
1919 BLACKSOX WORLD SERIES GAME FIXING RULING



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 method stipulates clock cycle values e.g., 5, 10, 15.

USPTO 13/573,002 / SCOTUS 573 U.S. 134 SCt 2347 “Alice in Wonderland Ruling”





Banks, Tech firms' form teams to assert foundation tech as a legal basis for IP intellectual property claims for programmable \$\$\$ DeFI / TRADEFI

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

Of system of systems engineering architecture structure data exchange (DoD) (NATO)

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



TIME EPOCHS & SYNTAX = FOUNDATION TECH

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





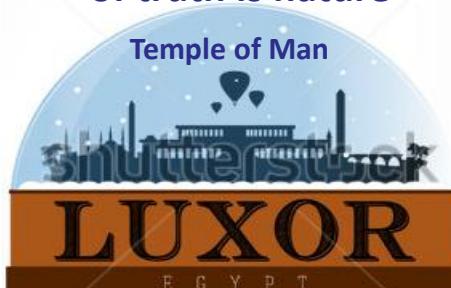
FIREFLY - Heartbeat Algo

Bologna Italy / Hungary / China Universities

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

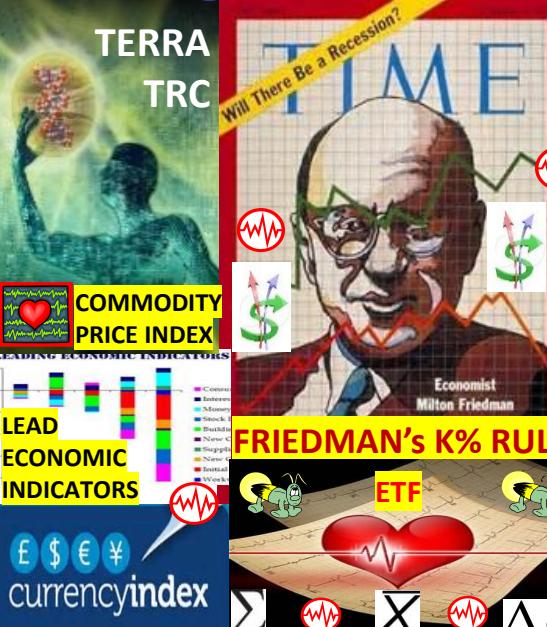


Luxor Temple Egypt:
"The shortest path towards knowledge of truth is nature"



FIREFLY inspired Heartbeat Sync Algo

PRECEDENCE UTZ SYNC SYNC
PROCESSING PULSE DELTAS



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



UTZ STOCHASTIC HARMONIZATION

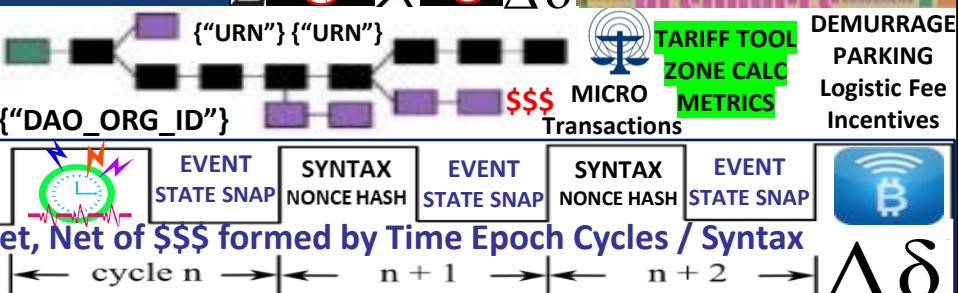


Fix ("108") {"Org_ID"} RFID TARIFF TOOL ZONE CALCULATION

\$\$\$ Int'l Date Line

SYNC DELTA STATE META DATA SNAPSHOTS ON / OFF SHORE

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.



"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"

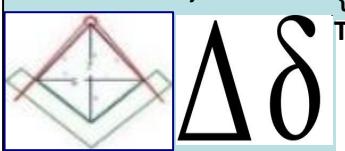
THE TERRA (TRC)

Trade Reference Currency



SLA: Closer = Cheaper

Closer = Less Fuel {"UP
/<U
= Less Time, CO₂



DEMURRAGE FEES MICRO PAYMENTS



SELLING POINT



ECONOMIC HEARTBEAT
FEDCOIN / WORLDCOIN

K %

ALGORITHMIC REGULATION

WAVES TOKENIZES CURRENCIES

LEADING ECONOMIC INDICATORS



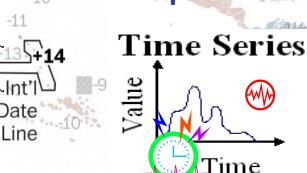
Terra Trade Reference Currency TRC "world currency"
Bernard A. Lietaer Belgian economist proposed 1991
Basket of 9-12 most important commodities. Public
issued demurrage fees for storage, shipping, handling



**Example: 100 Terra = 1 barrel oil
+ 10 bushels of wheat 
+ 20 kg of copper + 1/10 Oz gold**

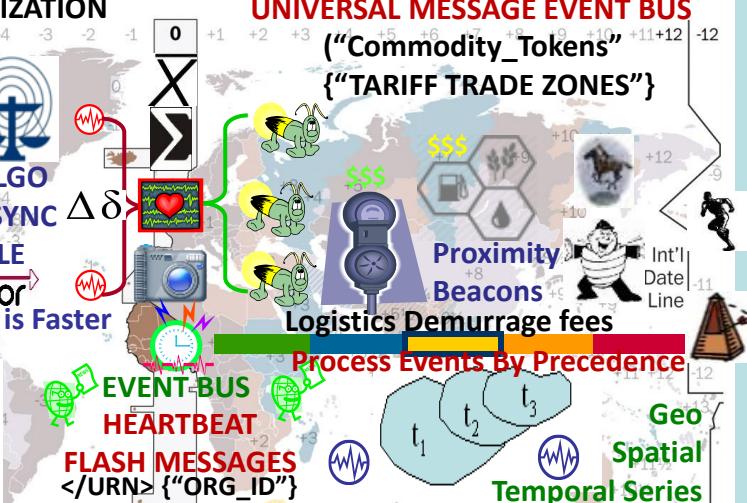


Firefly inspired Heartbeat Synchronization nodes strive to sync in a distributed system. Nodes generate periodic “heartbeat” events approximately at the same time. It differs from classical clock sync in that nodes are not interested in counting cycles to agree on the ID of the current clock cycle. There 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”

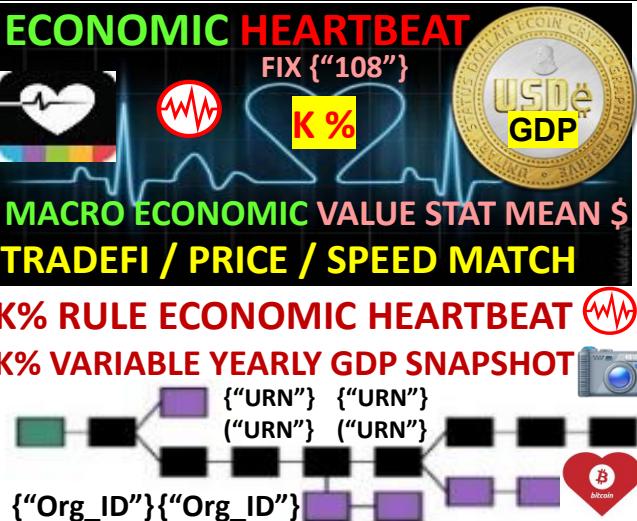


French newspaper "Le Fédériste"
"L'Europa monnaie de la paix"
Money of peace" Born Jan 1st 1933 \$\$\$

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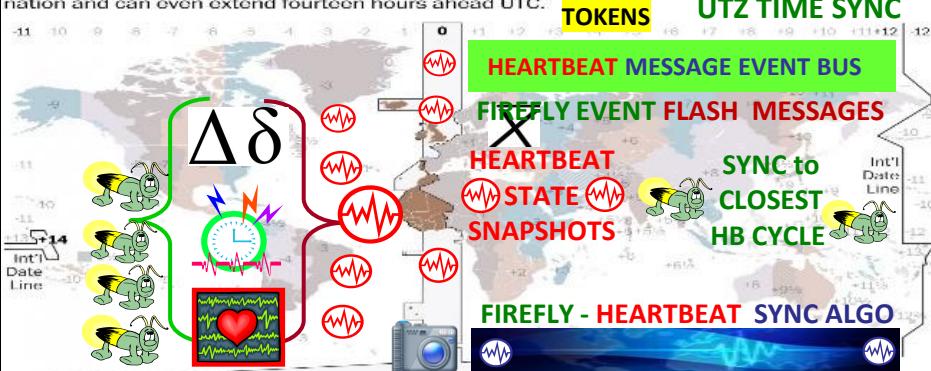
Universal Timezone System would do away with all these differences. Instead, it would be the same time all over the world, all the time.



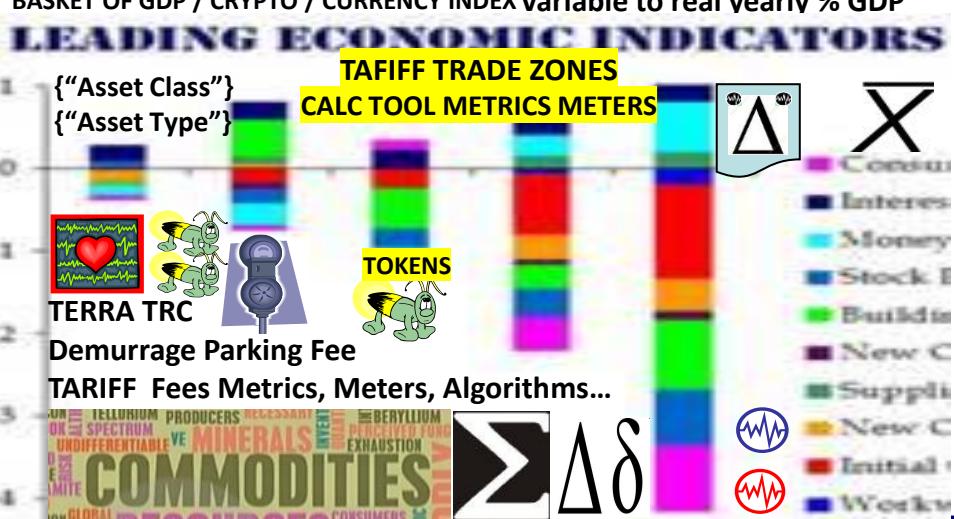
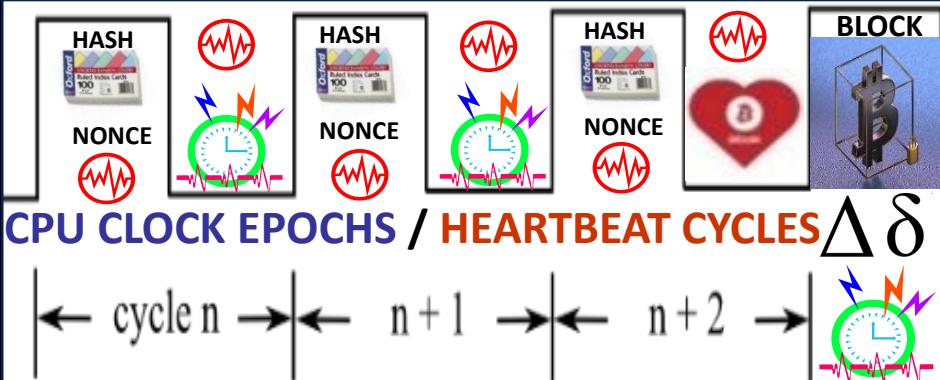
WAVES
TOKENIZES CURRENCIES

'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

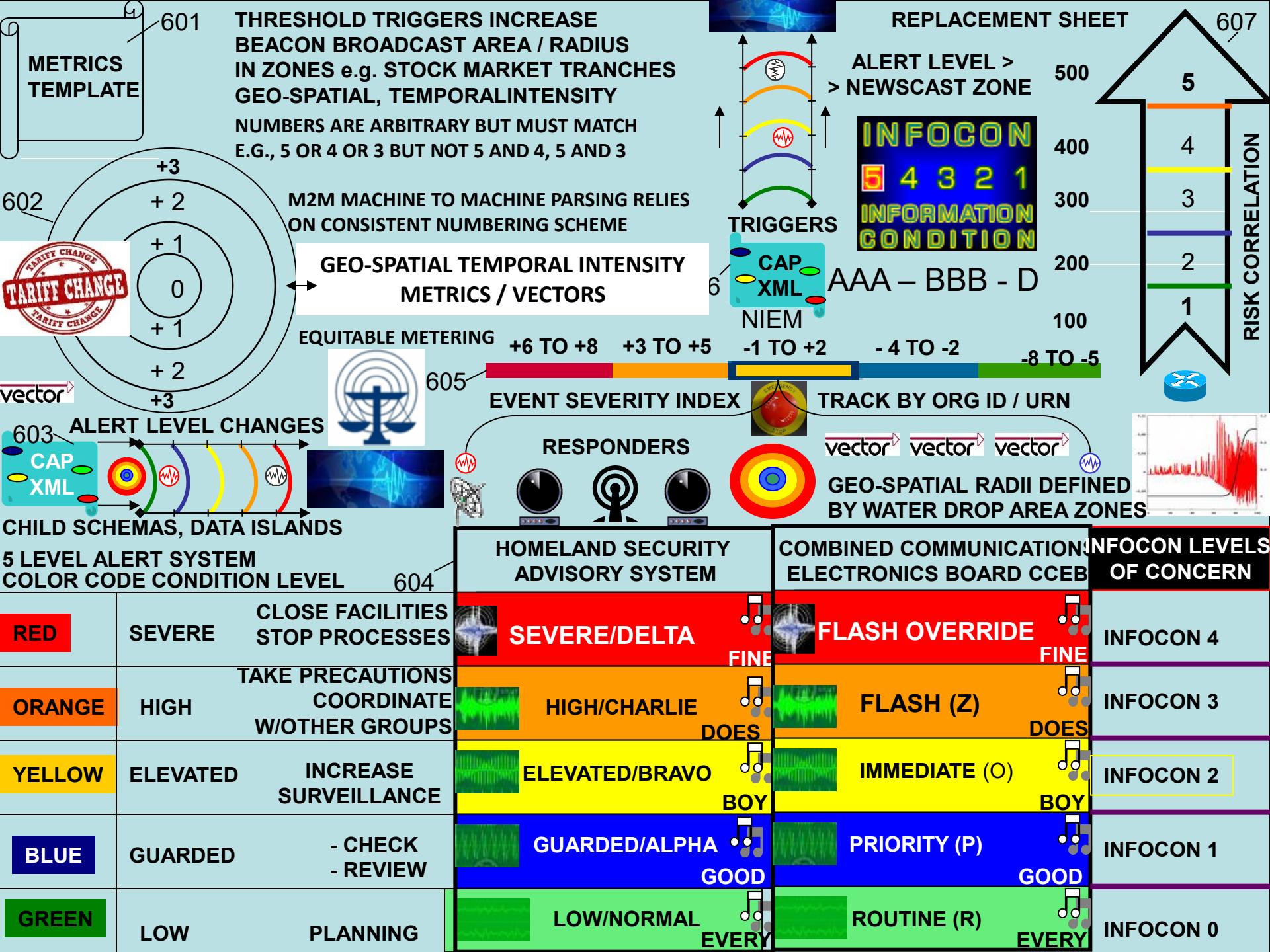
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"Heartbeat Synchronization strives to have nodes in a distributed system generate periodic local "heartbeat" events approximately at the same time. It differs from classical clock sync in that Nodes are not interested in counting cycles and agreeing 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"



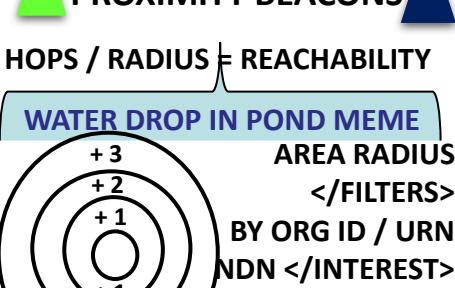
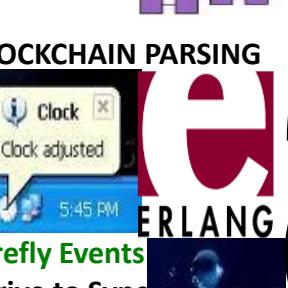
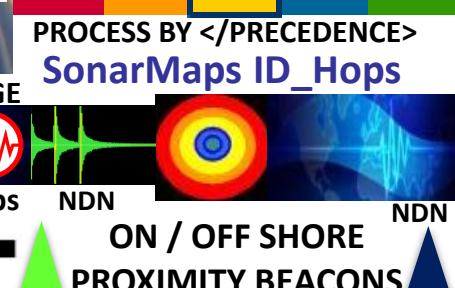
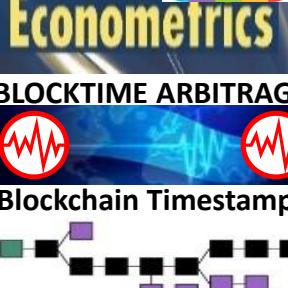
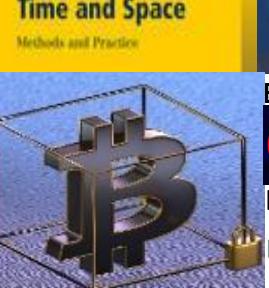
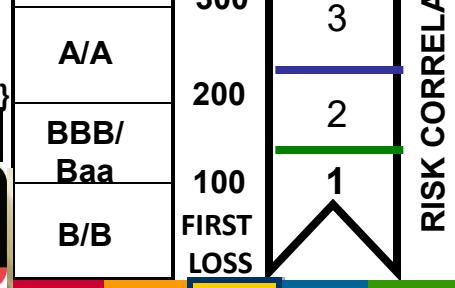
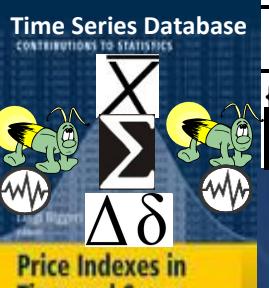
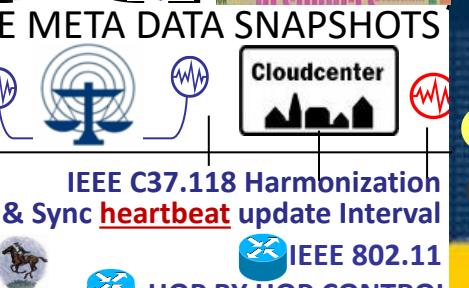
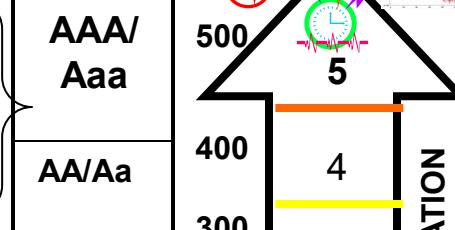
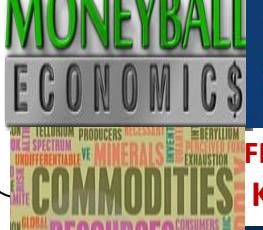
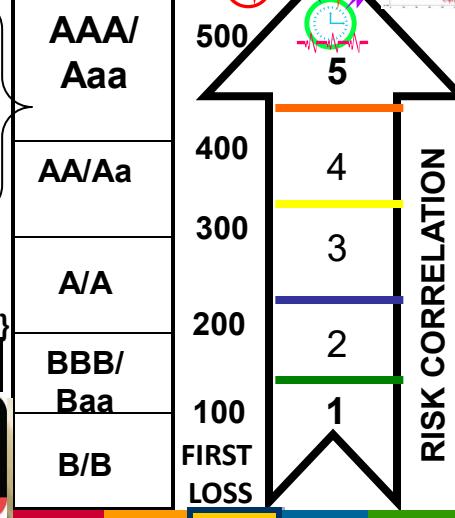


ECONOMIC HEARTBEAT



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

LAST LOSS

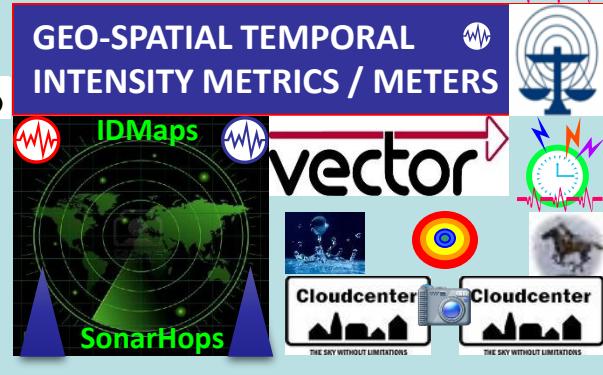
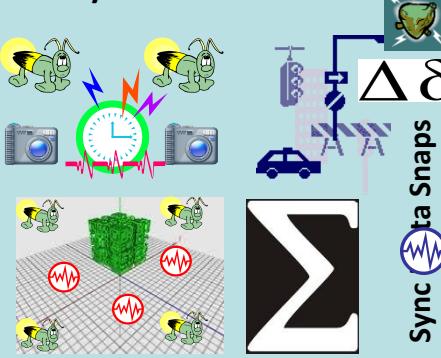




IDMaps: Global Internet Host Distance Estimation Service



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



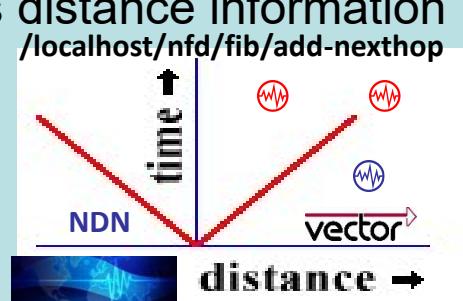
IDMaps scalable Internet-wide architecture measures, disseminates distance information



HOP COUNTS



REACHABILITY



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

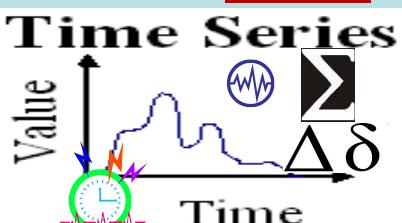
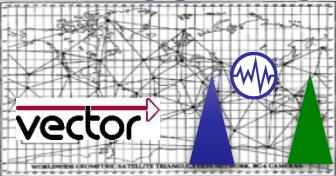


NDN INTEREST LENGTH
= DISTANCE BY HOPS

NDN
INTEREST

IS DATA
FRESH ?

TRIANGULATION



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

Datasets and Event Notification

INTEREST in <URNs>

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, TARIFF

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:



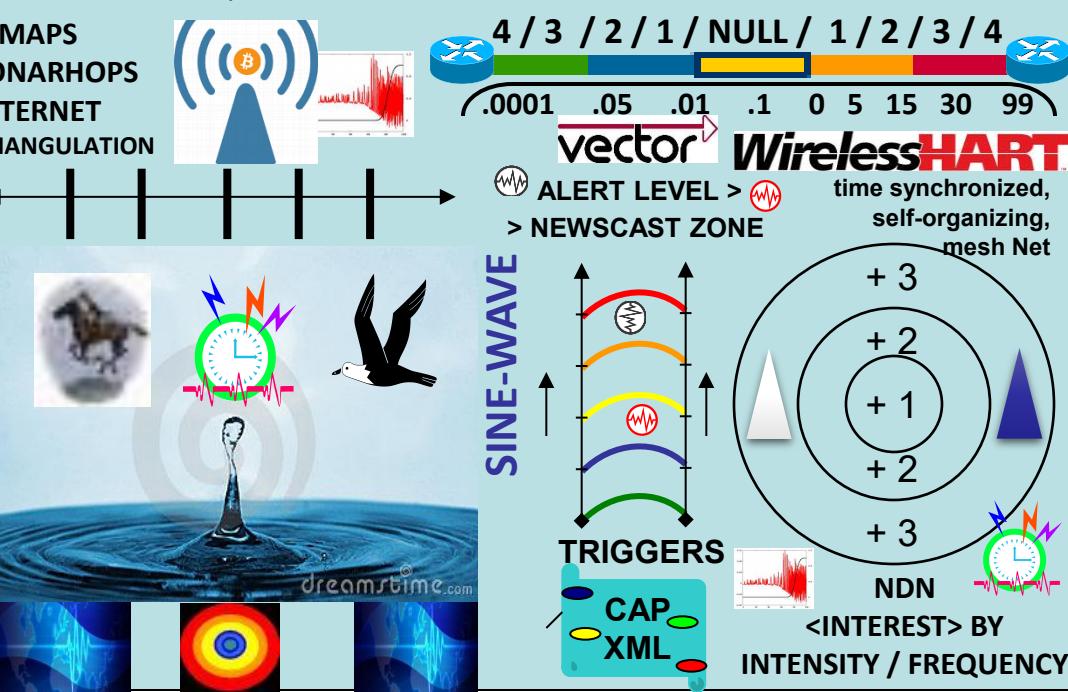
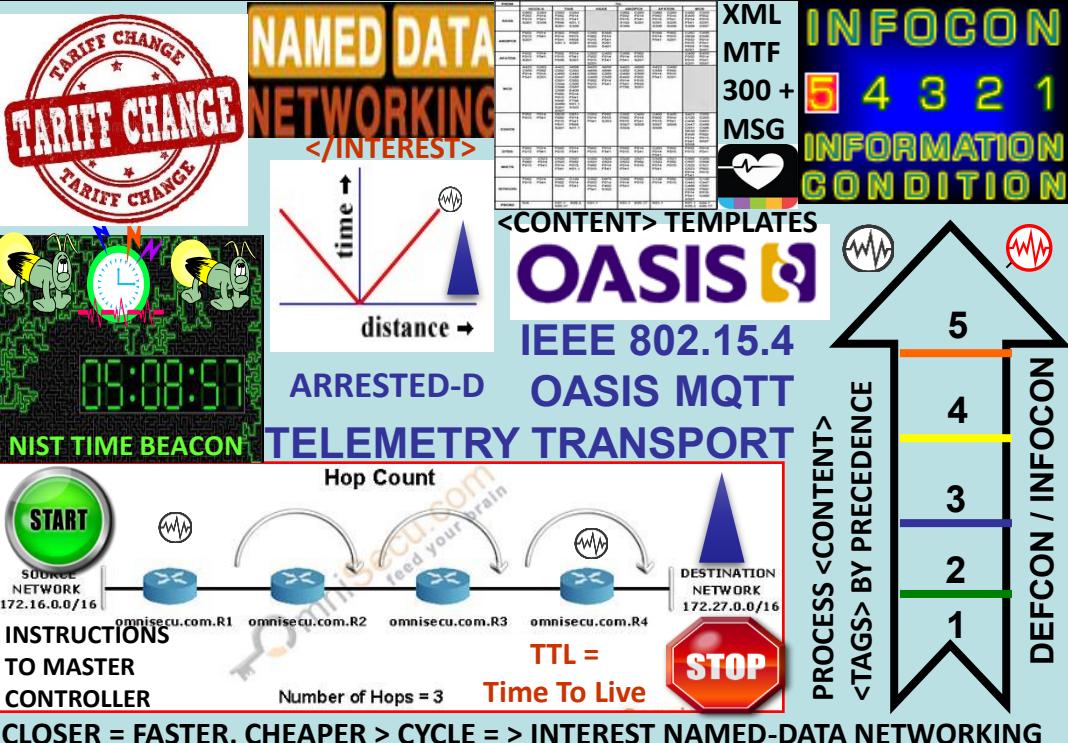
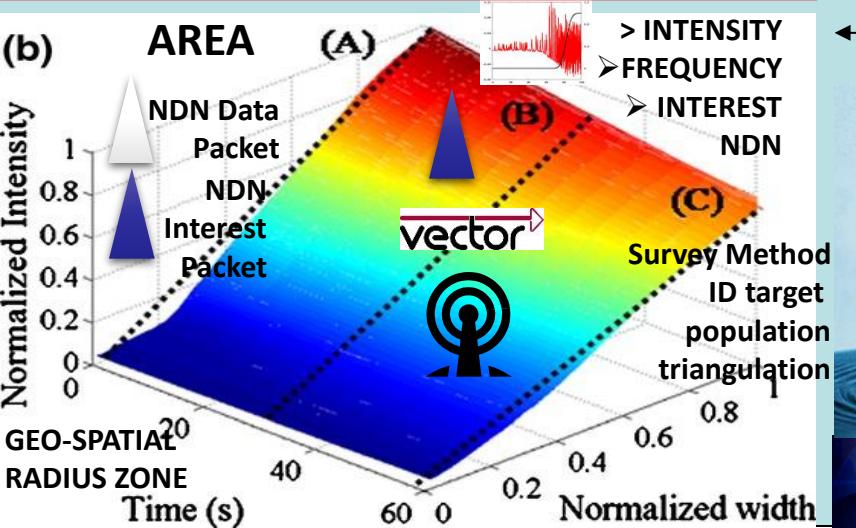
Paul Revere = linear, sequential



TCP/IP hop by hop counts, by hop controls



Water Drop = AREA / INTENSITY Cyclic Frequency



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

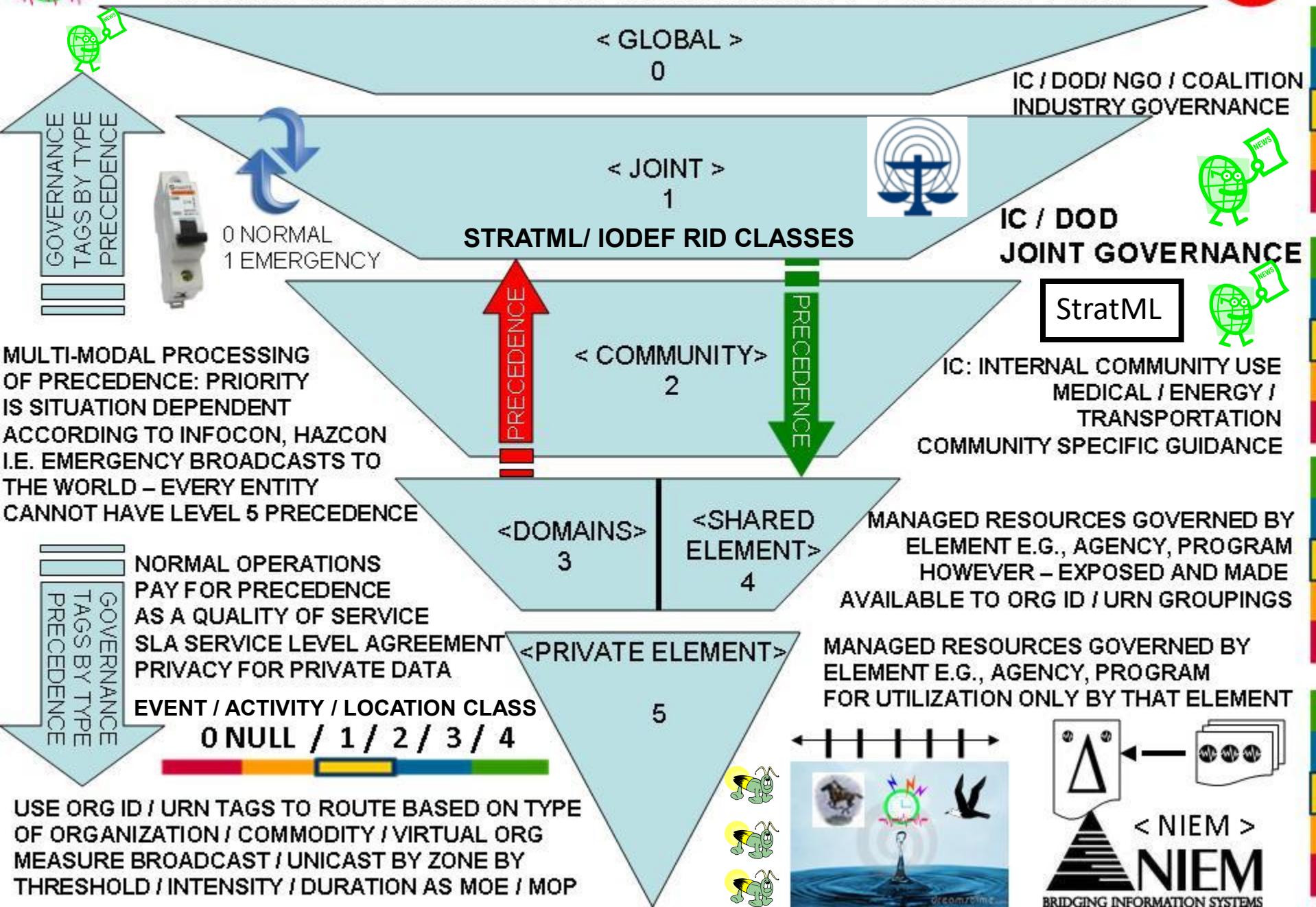
TIME STAMP BY Org ID, URN Before FUSION CENTER

Position of a point in space relative to another point





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



NAMED DATA NETWORKING

<CONTENT> CENTRIC NETWORKING



<ORG_ID>
<ORG_ID>
<ORG_ID>
<URN>
<URN>

<GLOBAL> <JOINT> <COMMUNITY> <DOMAINS> <SHARED> <PRIVATE>
</INTEREST> <STRAT_ML> <IODEF RID> </DISTANCE>

Situational Awareness Reference Architecture (SARA) IDENTITY, Inventory, Activity, and Sharing



<Federated ID> <URN> <type_event> <Data Class Types>

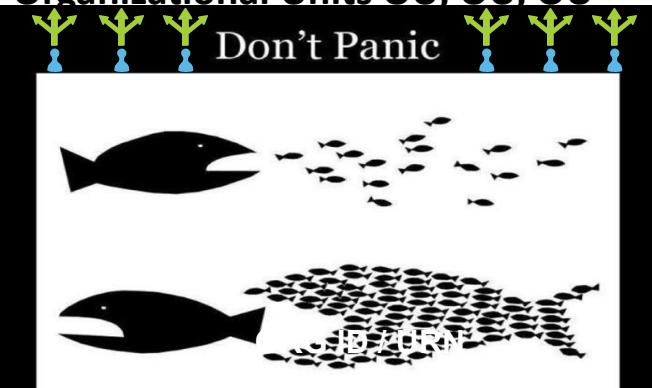
STRUCTURED MILITARY MESSAGING FORMS: FIELD TYPES, FILTERS, TAGS
PARSED, PROCESSED, COMPILED TELEMETRY SIGNALING STANDARDIZATION

USMTF / XML MTF FORMATTED MESSAGE CATALOG

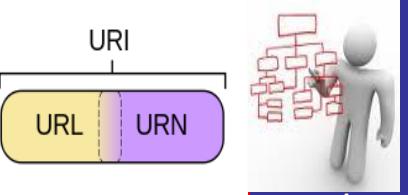
Catalog has over 300 messages to choose from have a wide number of information exchange requirements using common, CONSENSUS Message Text Formats MTFs. MTFs specify <CONTENT> / information agreed by group consensus presenting information in a logical, well specified and unambiguous layout resulting in a highly efficient information payload to overhead ratio

</Organizational_Identifier_Org_ID>

Organizational Units OU, OU, OU



FEDERATE



Uniform Resource Names (URNs): A Uniform Resource Identifier (URI). Both URNs (names) and URLs (locators) are URIs, and a particular URI may be a name & locator. Each plays a specific role:

- URNs IDENTIFICATION (SENSORS, DEVICES)
- URCs INCLUDE META-INFO
- URLs LOCATE / FIND RESOURCES



SITUATION AWARENESS



BY <TAG_TYPES>
Ledgers
Contracts
Trade SLA
Agreements



SURVEY METHOD
ID <ITEMS><INTEREST>
GEO-SPATIAL AREA
TEMPORAL INTENSITY
MEASURES / METRICS

IDMaps
SonarHOPS



<Org_ID>
<Org_ID>
<Org_ID>

PARTIDO X:
Distributed
Democratic
Participation

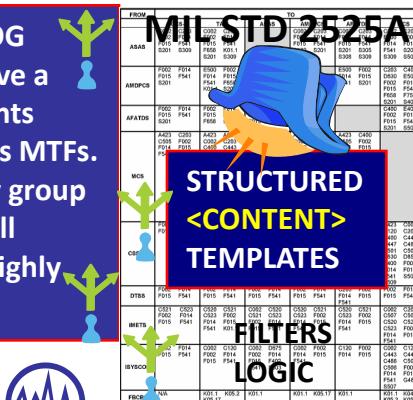


vector

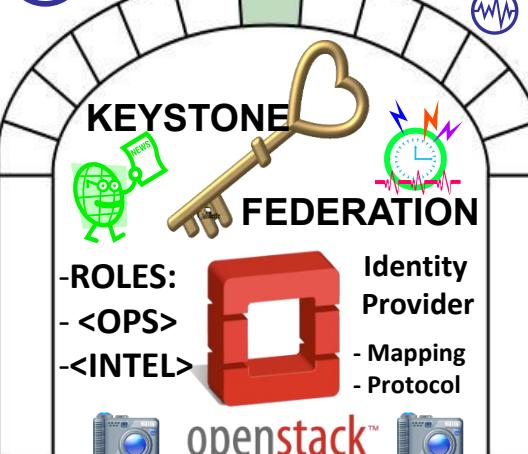
TELCO MESH FABRIC



CROWD SOURCING / FUNDING



FILTERS LOGIC



KEYSTONE
FEDERATION

- ROLES:
- <OPS>
- <INTEL>

Identity
Provider
- Mapping
Protocol

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

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

ADAPTIVE PROCEDURAL TEMPLATE: LIST OF TOOLS, PROCESSES, PROCEDURES I.E., STORED PROCEDURE CALLS COMPRISED OF STRUCTURED DATA EXCHANGES USING 300 + MESSAGES / MESSAGE SETS COMPRISED OF OPSCODE BREVITY COMPUTER CODES MAPPED TO SYMBOLS FACILITATING STAMDARD MAN – MACHINE INTERFACE

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 OPSCODE tokens stochastically harmonized over the UTZ

FROM	GCCS-A	TAIS	ASAS	AMDPSCS	AFATDS	CODE GUIDE
ASAS	C002 C203 F014 F541 S201 S309	C002 C203		C002 C203 F014 F541 S201 S309	C002 C203 F014 F541 S201 S309	MIL STD 2525A, B, C, D ["URN"] {"Org_ID"}
AMDPSCS						ISO Patent Application 9/11 2003: Method to commercialize structured military messaging
AFATDS	F002 F014 F541 S201			F002 F014 F541 S201	F002 F014 F541 S201	DoD Systems of Systems Engineering Structured Data Exchange MIL Standards / ISO Standards
MCS						BREVITY OPSCODES MAPPED TO SYMBOLS, SYMBOL SETS FOR A.I. ARTIFICIAL INTELLIGENCE MAN – MACHINE INTERFACE
TOKENS						STANDARD, CONSISTENT SYMBOLS
SIOP						

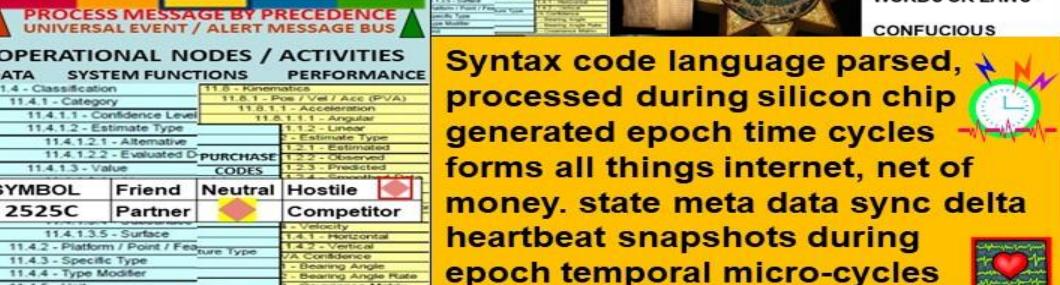
Object Categories	Examples	Information Categories and Examples				
OOB	SYNTAX LEXICON	STRUCTURED DATA / EXCHANGE / Machine Trust Language MTL	Identify / Status / Message Sets / CDL Contract Description Language	Activity / COA ("Java JS")	Intent	
Infrastructure	Comm, power, transportation, water/sewer	lat/long	spd/hdg	readiness	Eagerizing, reconsituting	
Sociological	culture, religion, economic, ethnic, government, history, languages	network, grid	throughput, flow rates,	name, part-of relationships	BDA, op. metrics	YAML expansion instance
Geophysical	Terrain, weather, climatology, oceanography, astrometry	feature	lat/long, alt/dpth	ER Model	Class Diagram / Relational Database / Object DBMS	XML DTD / Schema
				Attribute	Field / Column	Message
				Domain Value	PURCHASE CODES	Tokens

Data Elements: entity, attribute, relationship equivalents

HEARTBEAT MESSAGE = K00.99 </108> {"108"}

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



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

Situational Awareness Reference Architecture (SARA)

Identity, Inventory, Activity, and Sharing

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



ICS-ISAC

Industrial Control System
Information Sharing and
Analysis Center

IDENTITY: <UUID> = Devices, sensors
Federation
Gateway
<ORG_ID> Organizations

<ELEMENTS>

STRATML / IODEF RID CLASSES:
<GLOBAL><JOINT><SHARED>
<DOMAIN><FEDERATION>
<CITY><STATE><PRIVATE>

STRATEGIC
MARKUP

StratML

LANGUAGE

INVENTORY: Uniform Resource Name <URN>



<URN><URN> <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

NDN



<INTEREST>



NDN

<INTEREST>



SHARING:

COMMON <TAGS>

<Organizational_ID>

Resource Names <URN>

<Time_Stamps>

<State-Meta_Data>

<DATA_CLASS_TYPE>

<Heartbeat_snapshots>

<TAG> LIBRARY
TEMPLATES

NAMED DATA
NETWORKING
<Content> Centric

AVALANCHE

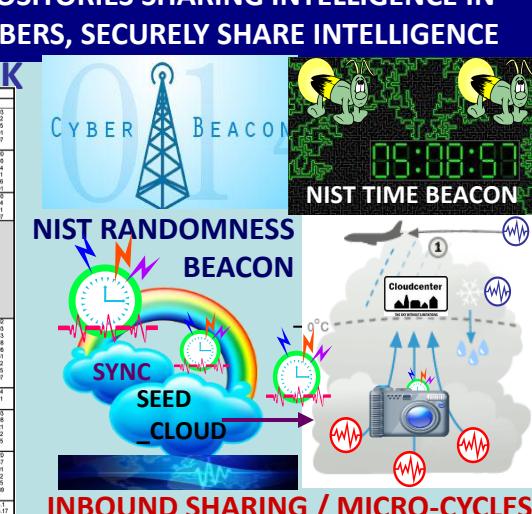
WELCOME TO THE FS-ISAC SECURITY AUTOMATION GROUP. OUR VISION IS
A FEDERATED NETWORK OF STIX-BASED REPOSITORIES SHARING INTELLIGENCE IN
REAL-TIME. AVALANCHE: STRENGTH IN NUMBERS, SECURELY SHARE INTELLIGENCE

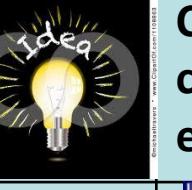
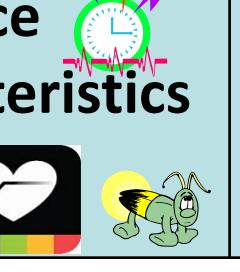
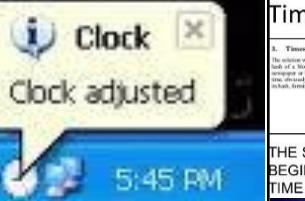
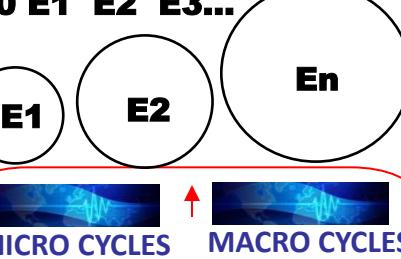
NIST CYBER SECURITY FRAMEWORK

FROM	TO	MCS
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P012	F012	C200
P013	F013	C200
AMAB	F014	C200
P014	F014	C200
AMOPCS	F015	C200
P015	F015	C200
AFATOS	F016	C200
P016	F016	C200
GBST	F017	C200
P017	F017	C200
CBSCS	F018	C200
P018	F018	C200
DTBS	F019	C200
P019	F019	C200
CSBT	F020	C200
P020	F020	C200
METS	F021	C200
P021	F021	C200
IBSON	F022	C200
P022	F022	C200
FBSCS	F023	C200
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P117	F117	C200

STRUCTURED
<CONTENT>
TEMPLATES

<TAG>
LIBRARY



Interface Name	HEARTBEAT Administration Interface [SCOP]		
Documentation URL	http://scop.sourceforge.net/ http://linuxvirtualserver.org/software/index.html		
API Information	 #leT  #Big_Data		
Programmable Money World Computer / Blockchain	Functionality Areas  	Cloud Interface Management configuration, start, stop cloud services, edit configuration (heartbeat messages)	
Programmable Money World Computer / Blockchain	API Operation Count  LOCATE <CONTENT> IDMAPS / SonarHOPS 4 / 3 / 2 / 1 / NULL / 1 / 2 / 3 / 4 0001 .05 .01 .1 0 5 15 30 90	Web service access type Network Effects / A.I.	
Programmable Money World Computer / Blockchain	LANGUAGE / PLATFORM BINDINGS  Cloudcenter  Cloudcenter  Cloudcenter	Web application, front end to [network, device, system, blockchain] heartbeat]	
Interface Characteristics	 <p>SCOP is a web application, PHP based front-end to heartbeat, IP Virtual Server ipvs and ldirectord [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.</p>		
"The external environment could update resources at random... One solution is a heartbeat: defining a default lease duration delaying updates until the next cycle"	  <p>QubitCoin Interval: Every 30 Seconds</p>	 <p>Satoshi Bitcoin Blockchain Time Stamp Server</p> <p>Block chain</p> <p>What does a block look like?</p> <p>Block structure:</p> <ul style="list-style-type: none"> version info previous block timestamp merkle tree root transactions <p>Header + Content = Block</p> <p>Header + Content + Merkle Root = Merkle Tree Root</p> <p>Header + Content + Merkle Tree Root + Previous Block Hash = Previous Block</p> <p>Header + Content + Merkle Tree Root + Previous Block Hash + Version Info = Version Info</p>	Epoch Time Cycles E0 E1 E2 E3... 

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

HEART BEACON CYCLE
USPTO 13/573,002
SURVEY METHODS

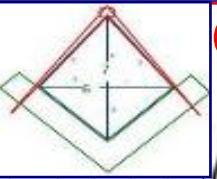
SC ALICE CORP VS CLS BANK: “claims may not direct towards abstract ideas”

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

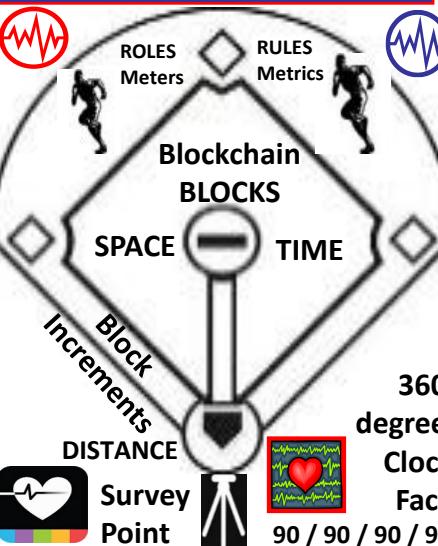


Mined Bitcoins



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”

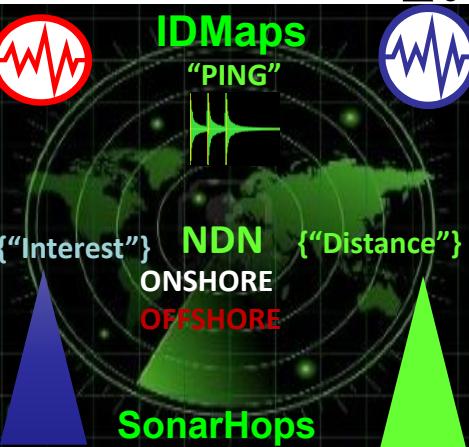
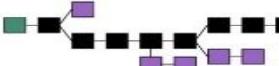
Coin never travel, but simply switch owners”

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



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

vector



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





Tokenization of Physical Assets Enables Economy Of Everything

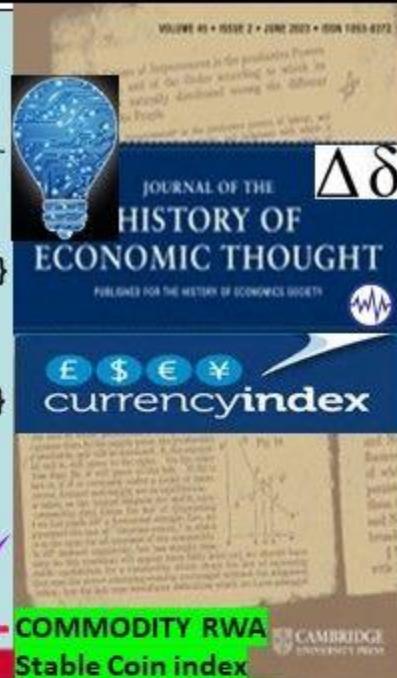


ALGORITHMIC STABLE COIN COMMODITY INDEX CURRENCY PROGRAMMABLE \$\$\$

BELT and ROAD
Trade Initiative



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 Žak) 2010, 2013

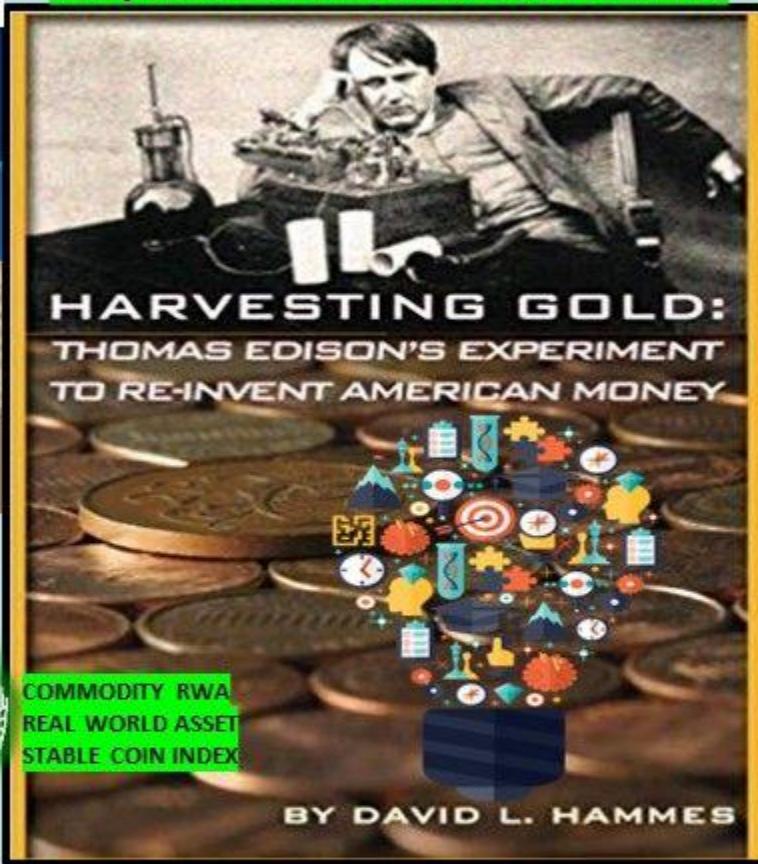


NETWORK
CENTRIC
OPERATIONS
INFOCON
4 3 2 1
INFORMATION
CONDITION



Thomas Edison's Monetary Option Cambridge University Press 2009

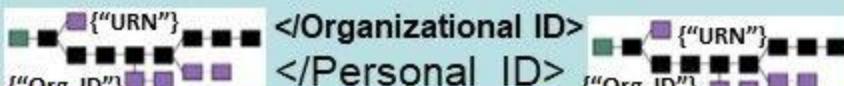
"Crops hold their value best over time"



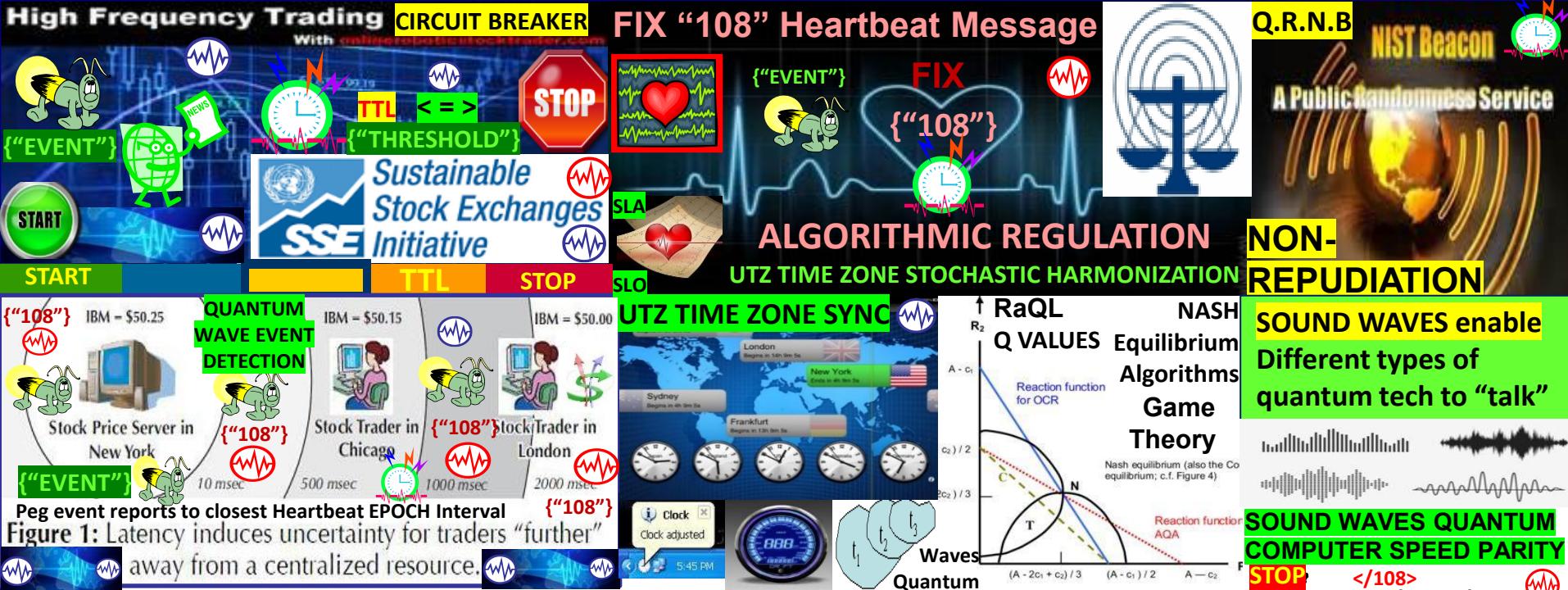
COMMODITY RWA
REAL WORLD ASSET
STABLE COIN INDEX

BY DAVID L. HAMMES

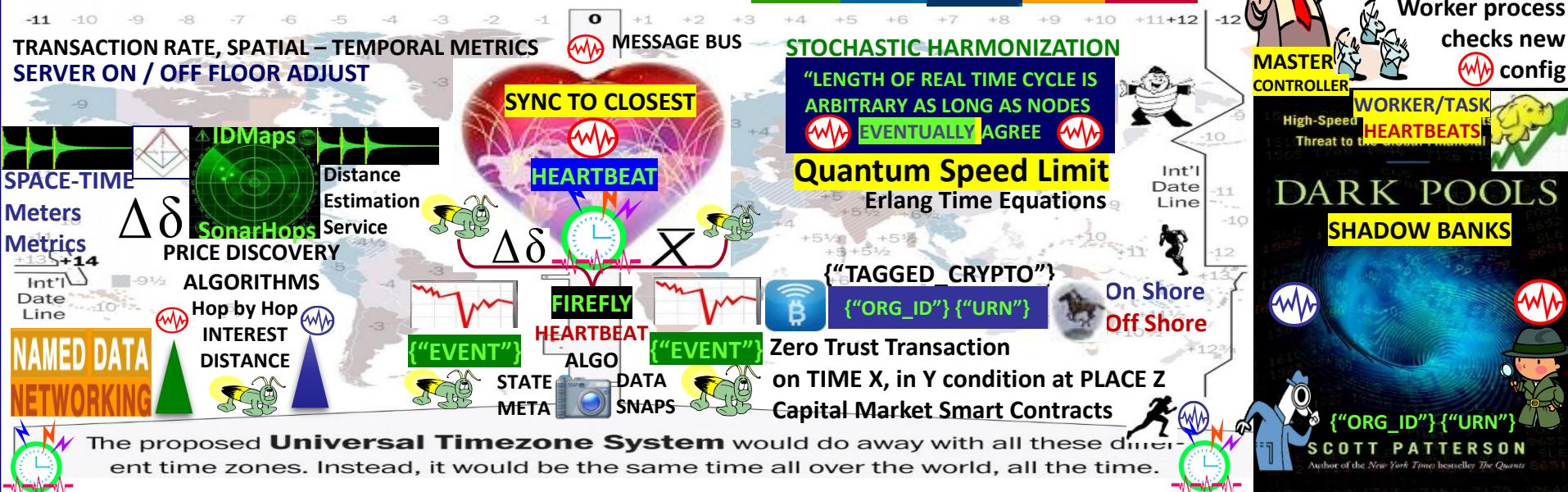
"Thomas Edison publicly introduced his latest invention: a new type of money, a crop index commodity-backed currency that he believed was the long-term solution to America's monetary woes. "I want to cast the variable out of money. This gold money is not good enough. It's a fiction" "New York Times 1922

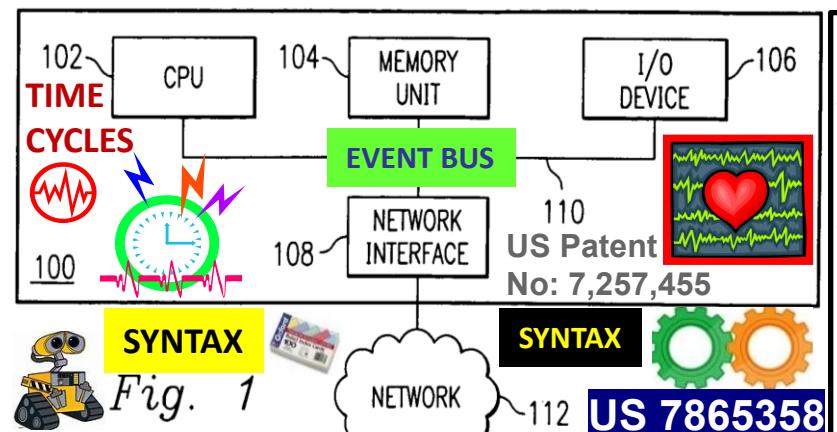


USPTO 13/573,002 The Heart Beacon Cycle Time – Space Meter



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.





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.

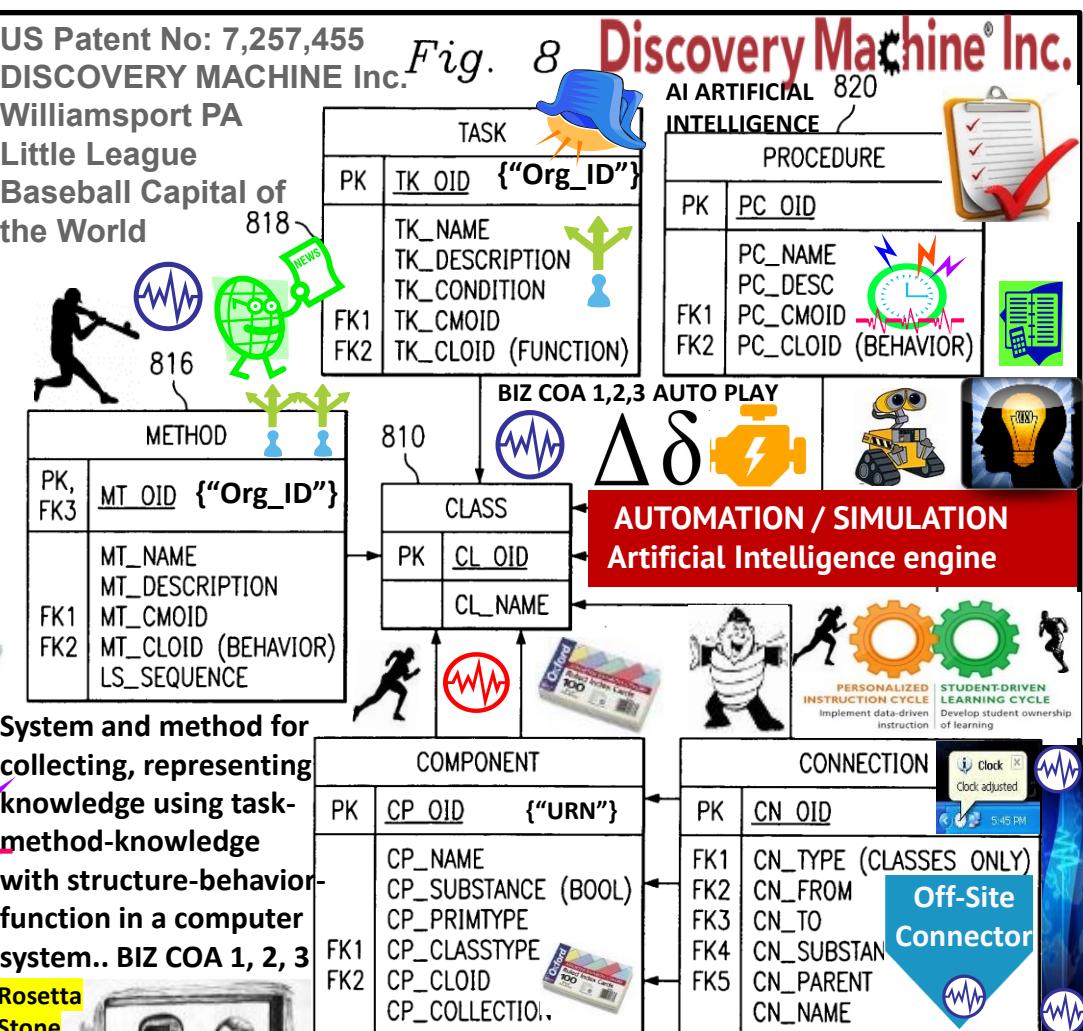
US 7865358 CLAIM 1. method converting textual data from source form to target forms, where target form differs from source form's linguistics, syntax

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

Neuro-Symbolic AI	
Neural Networks (Deep Learning)	Symbolic AI

Brevity Codes	
Icons (e.g., part of Y123 to building, PK1, Y1 = part of Z, Y1 = PK1, Z)	Symbols

Symbols	
Symbol Set 2525C	Symbol Set 2525C

Incorporate common sense reasoning and	
Robot interacting with a house	Incorporate common sense reasoning and

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

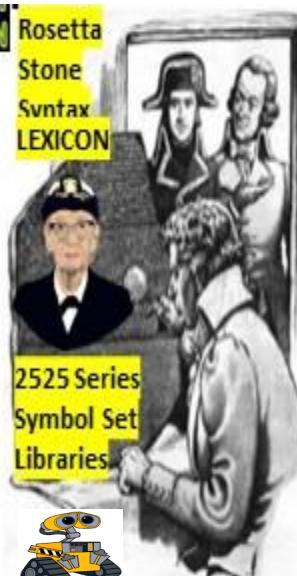
This claim implies both that human thinking is a kind of symbol manipulation (because a symbol system is necessary for intelligence) and that machines can be intelligent (because a symbol system is sufficient for intelligence).[3] The idea has philosophical roots in Hobbes (who claimed reasoning was "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



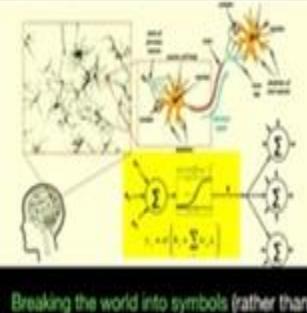
FRT CP CLOUD

ABC A OPS CODE BREVITY CODES

Neuro-Symbolic AI

Symbolic (human-readable)
representations

Neural Networks
(Deep Learning)



Brevity
Codes

Symbols

Symbol

Symbolic AI

Incorporate common sense reasoning and



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



Confucius

Alpha-numeric OPS CODE

Brevity codes mapped to symbols,
Symbol sets = structured data

Software Defined Networking

REST State Transfer
Command Syntax
NETOPS

NETOPS

REST State Transfer

100

5

COMMAND SYNTAX
STATE TRANSFER
Unicast / Multicast
Flow Tables / Workflow
Dynamic Network Configuration Management **CO**
FEI

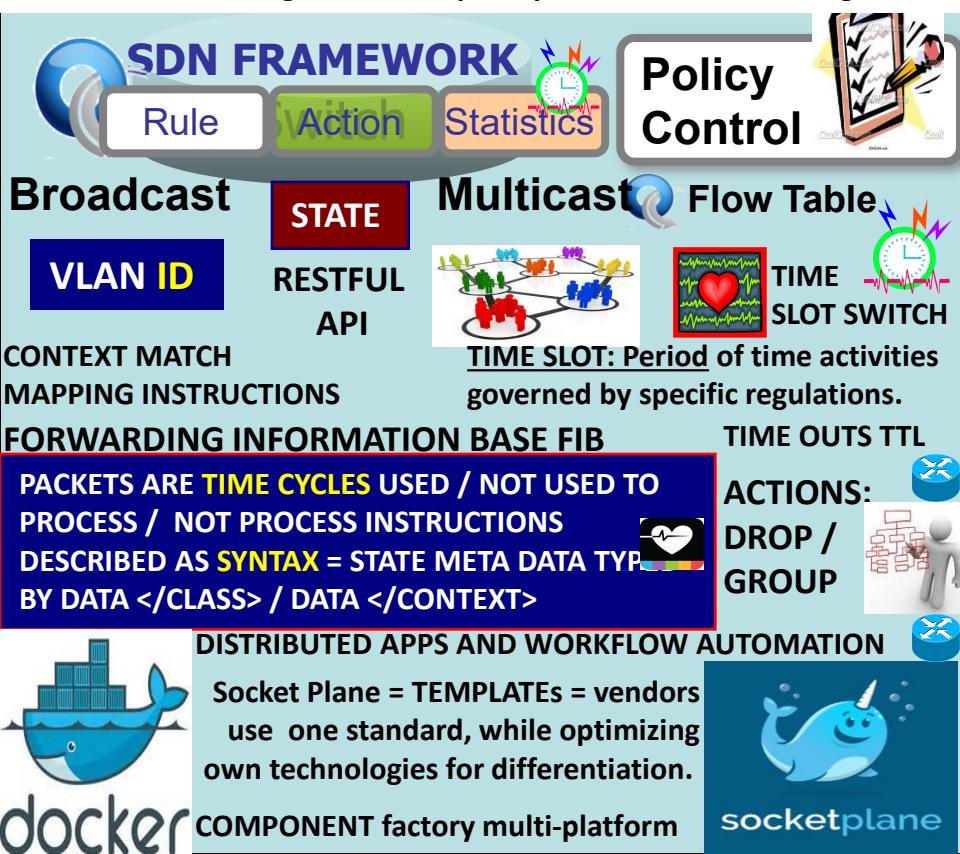
NET CENTRIC WARFARE

SYSTEM OF SYSTEMS TELEMETRY

COMMON COMPONENTS, BUILDING BLOCKS USED WITHIN FEDERATION PROMOTING COMMON GOALS, PROCESSES

- ❑ 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



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

DISTANCE
INFO SERVICE

Time Series

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



vector

602

+3

+2

+1

Null

0

+1

+2

+3

1

2

3

4

5

UNUSED RESOURCES
UNMET NEEDS

Spatial
Econometrics

Spaceship
Earth
Signals &
Telemetry
Annex

ASTEROID BELTS =
RARE MINERALS

MAIN
ASTEROID
BELT

MARS

MERCURY

VENUS

EARTH

MOON =

HELIUM 3

"Numbers are the
Universal Language

offered by deity to humans as
confirmation of the truth"

TIME-SPACE BEACON

INFOCON

5 4 3 2 1

INFORMATION
CONDITION

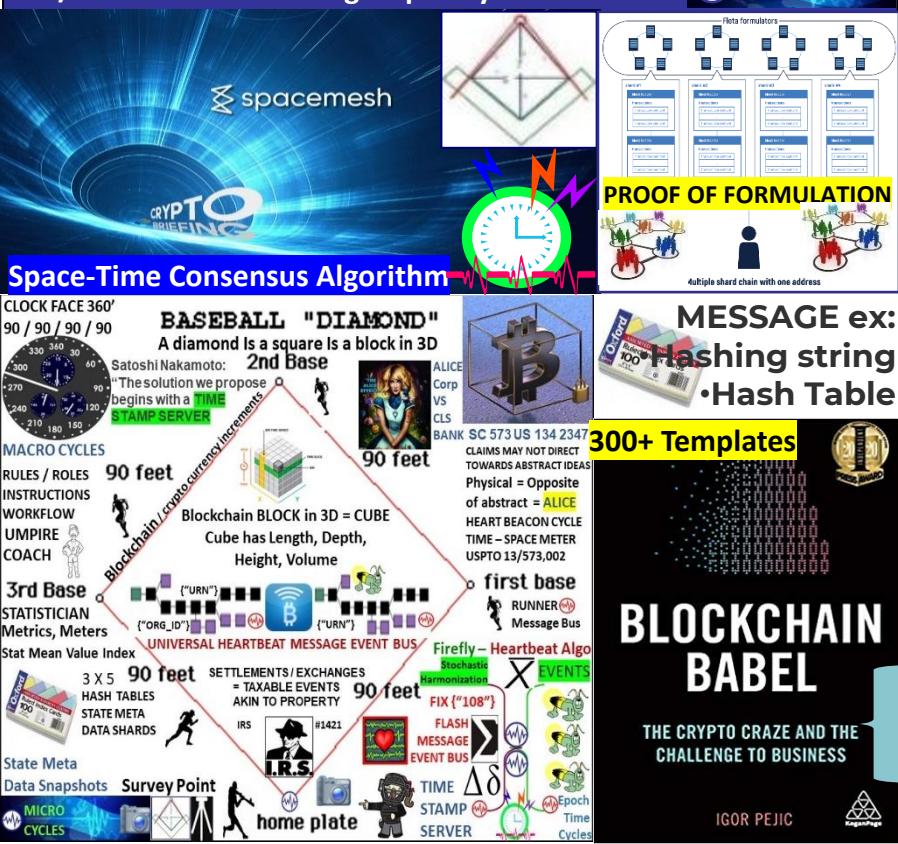
Q: Which meme describes the myriad blockchain consensus algorithms the most comprehensively that uses an algorithm (based on nature = “shortest path to the knowledge of truth Luxor Temple) enabling distributed system of systems geo-spatial, UTZ Universal Time Zone temporal, semantic - syntactic sync,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

Blockchain Consensus Algorithms & Mechanisms



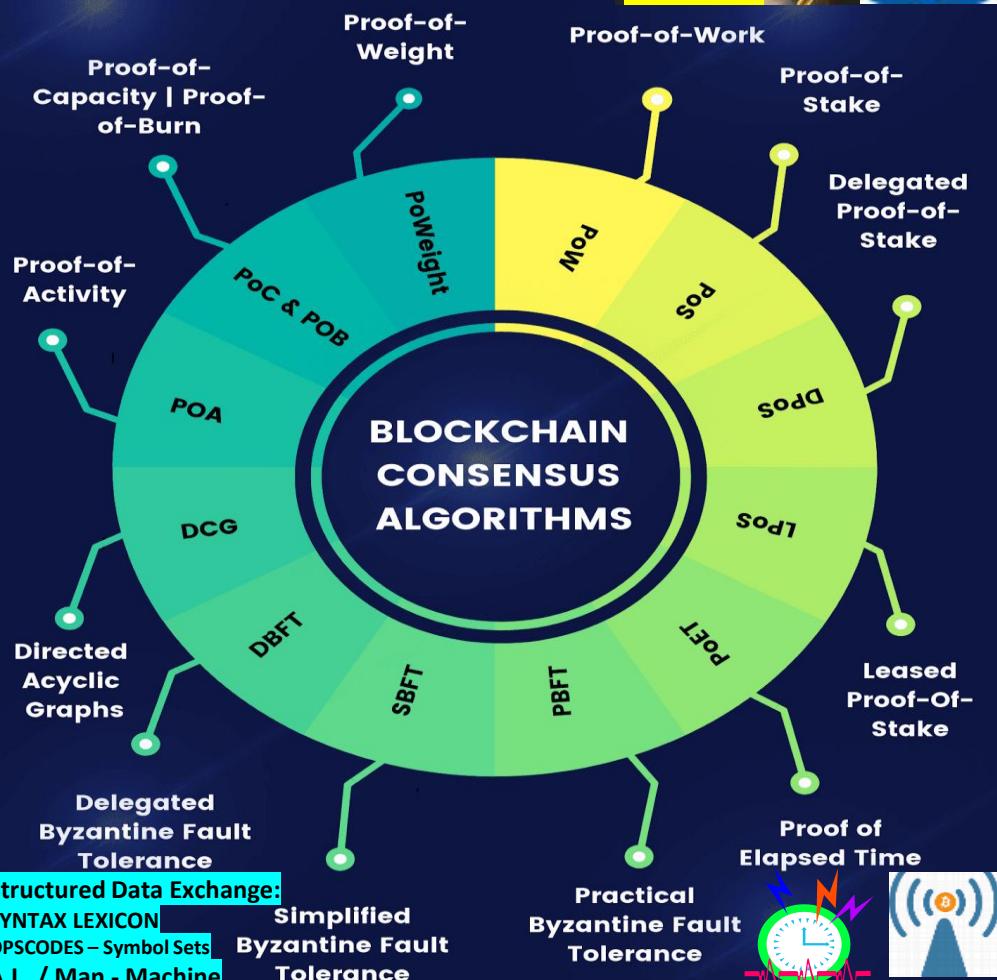
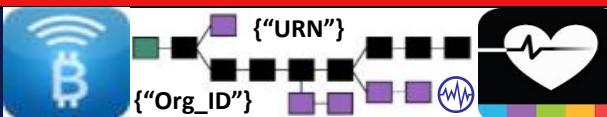
In the world of blockchain consensus algorithms, consensus is the **HEART OF THE BLOCKCHAIN NETWORK**. Its main purpose is to achieve agreement on transactions among a distributed system (s)

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.



BLOCKCHAIN CONSENSUS ALGORITHMS

ULTIMATE GUIDE FOR BEGINNERS



www.developcoins.com

Blockchain 
Interoperability
Protocol BIP 
 "share any type of data PROTOCOL
 as long as it's encoded **in BYTES**"

ISC

INTER BLOCKCHAIN
COMMUNICATION



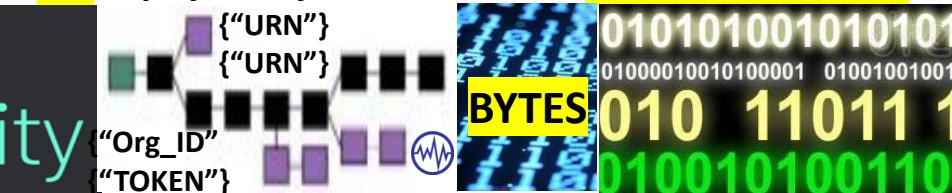
BYTE: unit of data equal to eight bits

BIT: a unit / group of 8 bits as

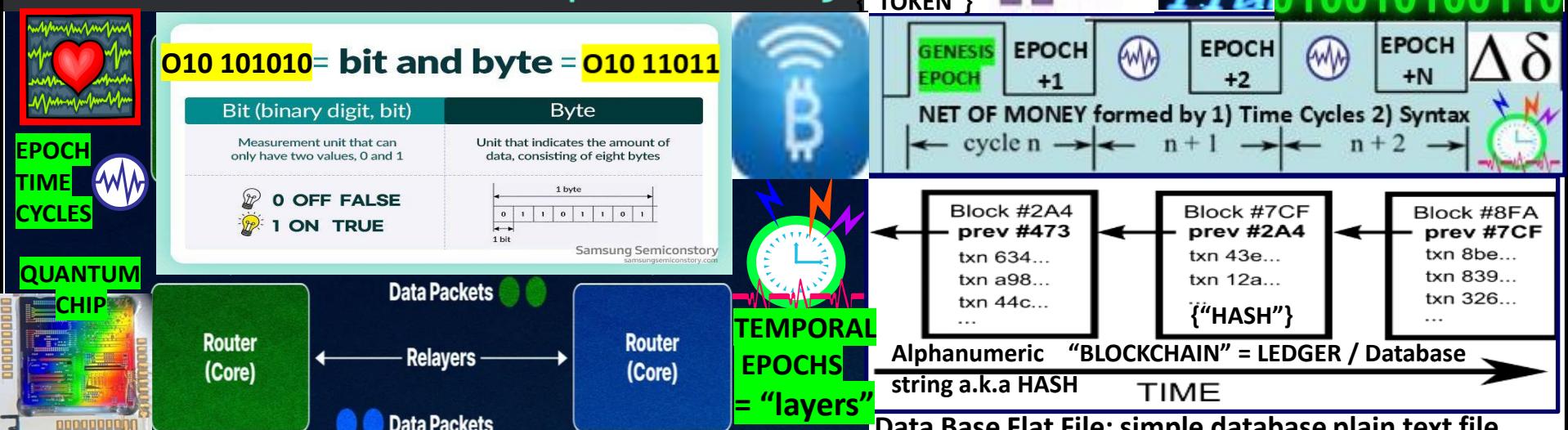
alphanumeric characters i.e., TOKENS

BIT: logical state with two possible values: "1" or "0",
TRUE / FALSE, YES / NO, ON / OFF, or +/-

"A **BIT** is physically created with a **TWO STATE** device

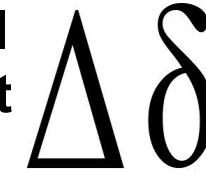


The Complete Guide to Crosschain Interoperability



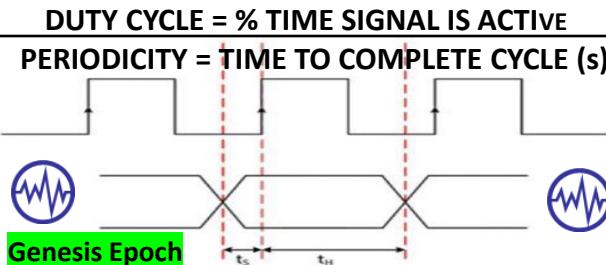
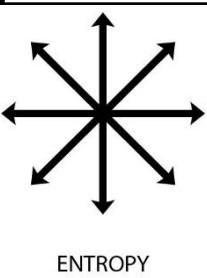
Data Base Flat File: simple database plain text file
format = tabular structure, each line represents a record, fields 'delimited' with commas, tabs..

TIMESTAMP SERVER: "Satoshi Nakamoto" concept established chronological order of transactions in a decentralized network. Uses cryptographic hashing & timestamps to create an immutable chain of blocks



"AIONET protocol foundation = hardware / memory / AI Proof-of-Memory measures consistency, Proof-of-Drift senses entropy, AI validation gives nodes awareness"

AIONET Protocol, first **AI-governed Layer 1 blockchain** consensus in hardware trust.
Pioneering Proof of Memory (PoM) and
Proof of Drift (PoD), HBM-DRAM entropy



PROOF OF MEMORY (PoM)

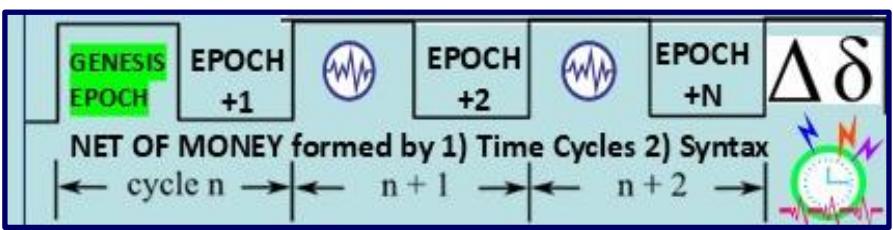
AIONET's core consensus system. Instead of mining or staking, PoM uses high-speed HBM-DRAM memory and AI to check system behavior in real time. If memory behaves predictably and honestly, the transaction is validated. No guessing — just logic, and finality as fast as memory can physically operate.

PROOF o(DRIFT (PoD): second-layer trust check. PoD watches how memory signals change over time. It detects "drift" — unexpected or suspicious behavior — using entropy decay, signal variation, AI scoring. Blockchain lie detector **powered by physics** turning that behavior into a machine fingerprint.

AIONET AI L1 layer consensus via physical memory behavior. PROOF of MEMORY (PoM) validates blocks by measuring high-speed HBM-DRAM operations. Proof of Drift (PoD) scores validator health from entropy/drift fingerprints to resist spoofing/cloning. As HBM bandwidth scales, compute time shrinks; PoD = identity becomes honest **over time.**



Firefly inspired **Heartbeat Algorithm:** over time, all nodes eventually agree, synchronize over time
Firefly – Heartbeat algorithm includes a heartbeat Message / event monitoring / reporting bus
Intrinsic to the internet's operation </108> </0>



ERC 3643 T-REX permissioned tokens = OPSCODE BREVITY CODES = USPTO 13/573,002

ERC3643 protocol: open-source suite of smart contracts issuance, management, transfer of permissioned tokens. Decentralized identity framework, **ONCHAINID**, users meeting conditions become token holders, even on permissionless blockchains.

ERC 3643, Asset Tokenization: Code name T-REX
PROTOCOL standard for permissioned tokens:
The ERC3643 protocol is an open-source suite of **smart contracts** that enables the issuance, management, and transfer of permissioned tokens. Its built-in **decentralized identity framework**, **ONCHAINID**, ensures only users meeting pre-defined conditions can become token holders, even on permissionless blockchains, for RWA Real World Assets, Securities, E-Money, Loyalty programs

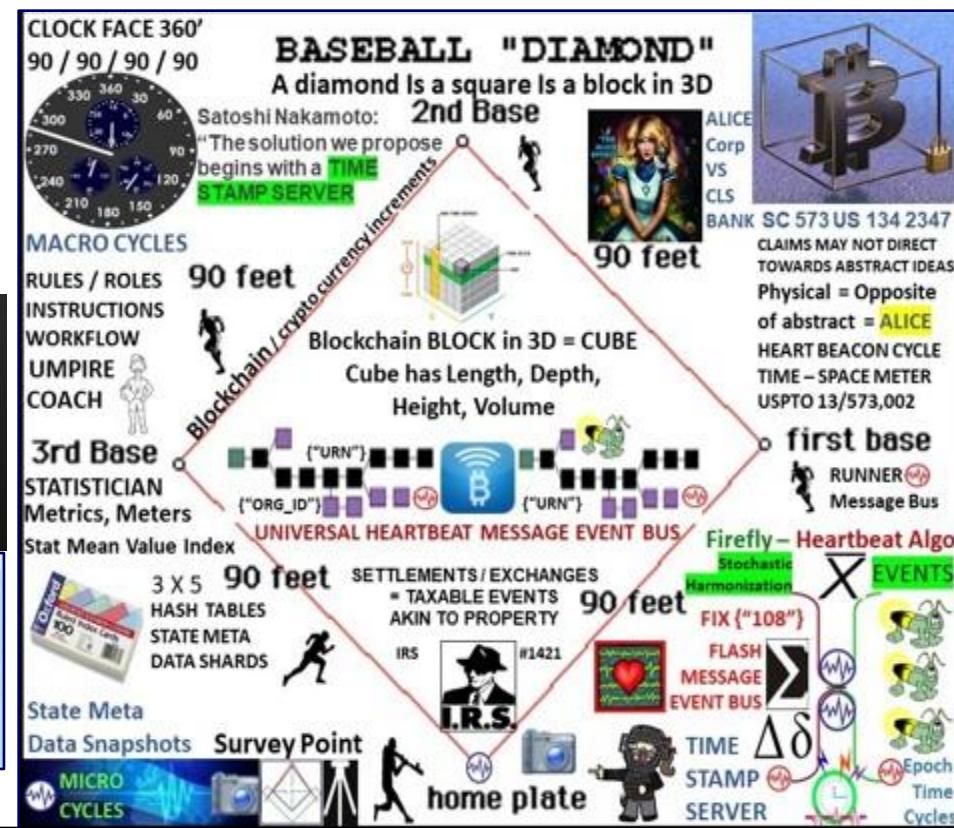
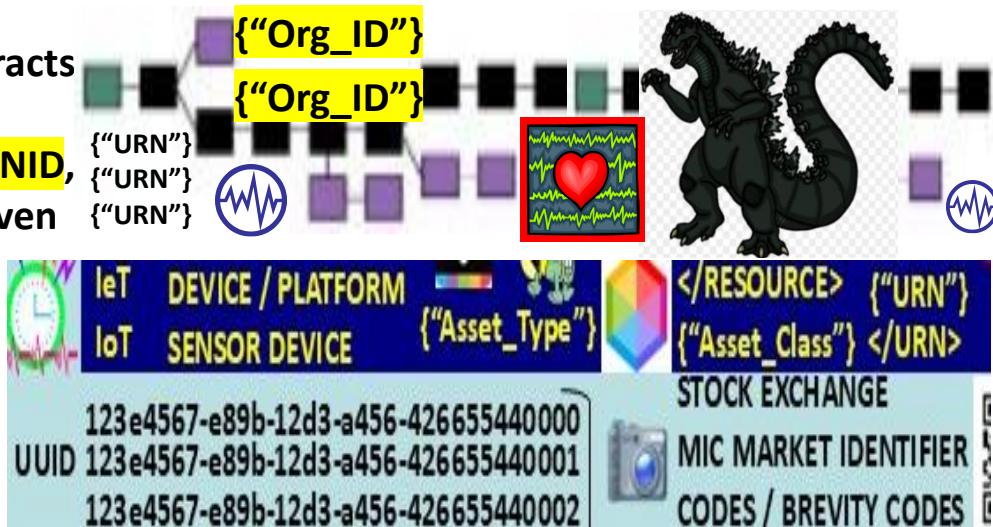
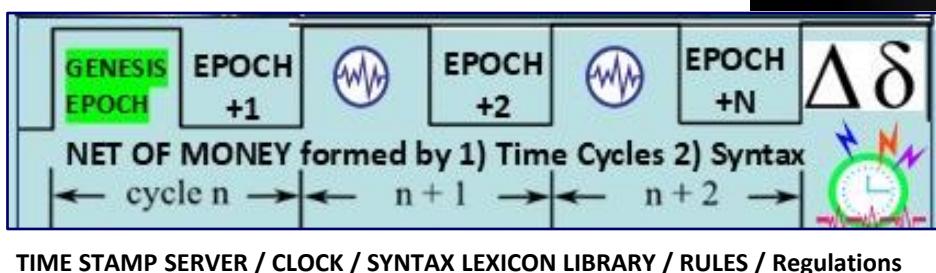
Token Type: Utility and Governance Token

Token Name: T-REX

Smart Contract Address

Token Category: RWA, tokenization: Blockchains

Website: <https://t-rex.network/>



ERC 3643 compatibility token standard

ERC 7943 token compliance & interoperability



Digital Securities Initiative regulatory frameworks

ERC-20: fungible tokens: totalSupply, balanceOf, transfer, approve, allow, + events such as Transfer and Approval

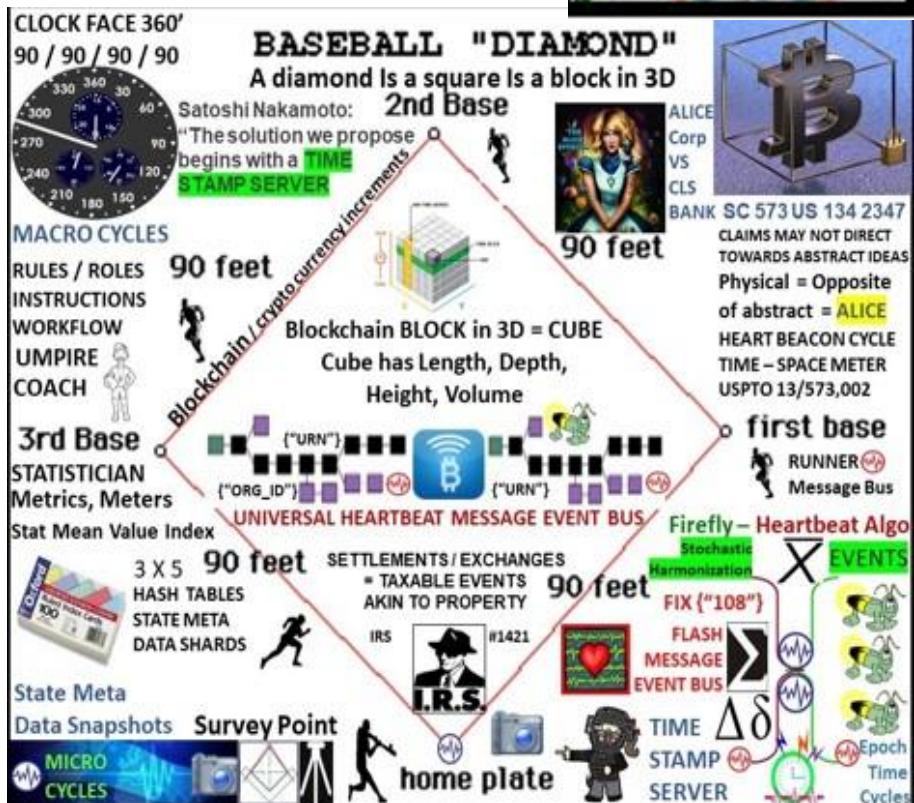
ERC-721: non-fungible tokens (NFTs) unique digital assets i.e., collectibles, art + functions: ownerOf, safeTransferFrom

ERC-1155: multi-token fungible / non-fungible tokens to coexist within a single contract supporting batch transfers and efficient asset management

ERC-777 (operator-based transfers),

ERC-4626 (yield-bearing vaults)

ERC-1400 (security tokens)



ISO 27001: Information Security Management System

ISO 27002: Code of Conduct Best Practices

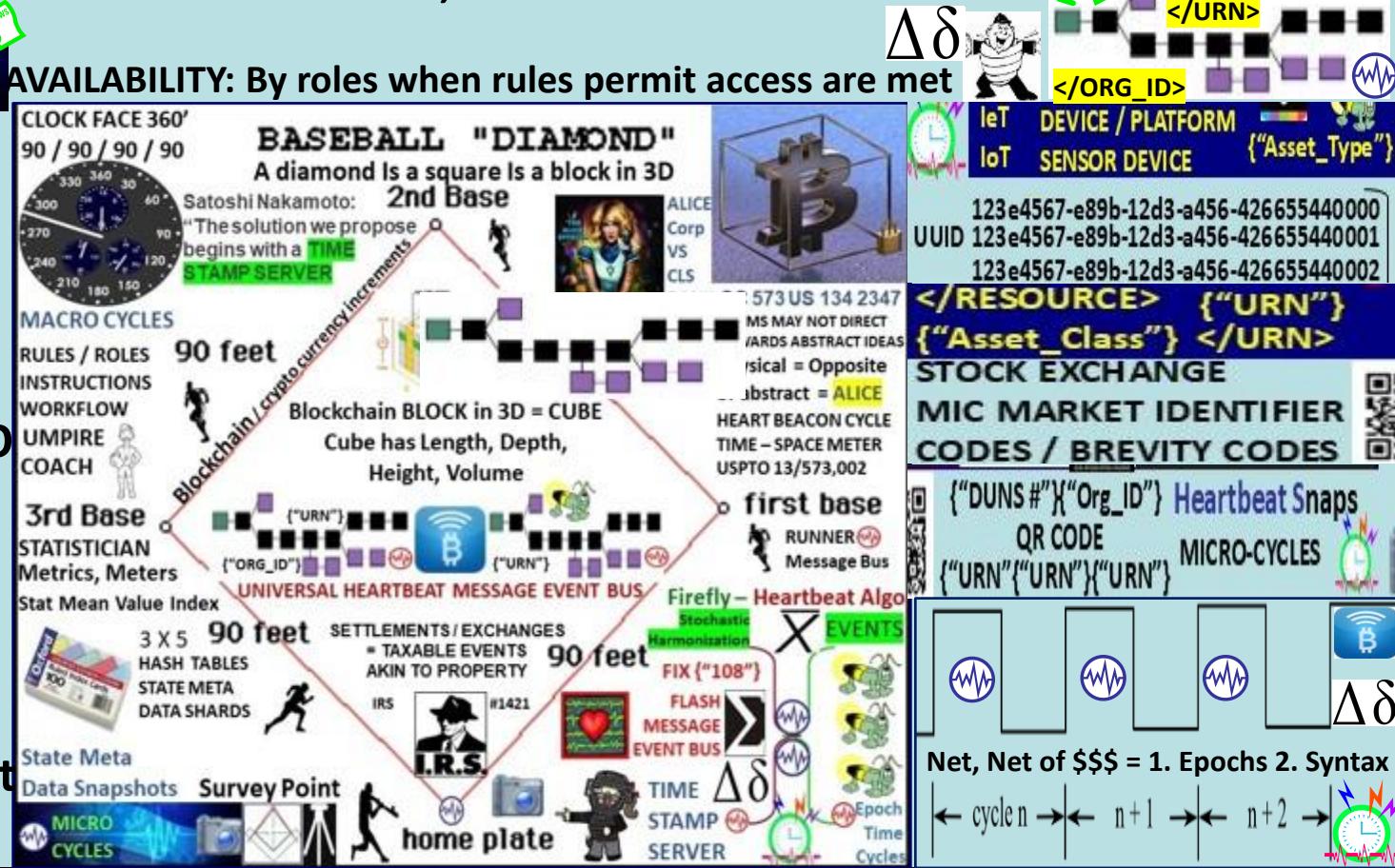
- **CONFIDENTIALITY** Not available, disclosed to authorized people, entities or processes
 - **INTEGRITY:** Information is complete, accurate and protected from corruption
 - **AVAILABILITY:** Information is accessible, usable when authorized





INTEGRITY: events,
Messages, alerts..
Time stamp server
with “blockchain”
Immutability rules
In effect across DAO

CONFIDENTIALITY
Organizational ID
Xmit {“Org_ID”}
with individual’s ID
available on request
granted by group





Blockchain

BLUEPRINT FOR A NEW ECONOMY



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 rejigging 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

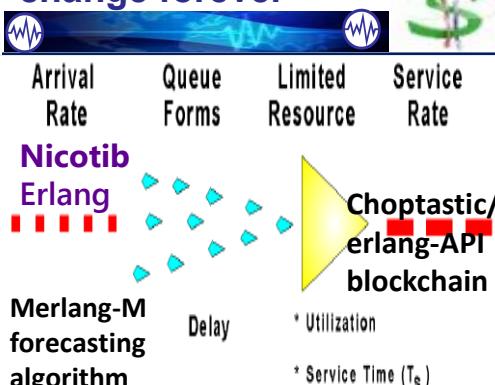


Functional Sequential Erlang

- 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

"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 $\Delta\delta$
Arrival Rate $\Delta\delta$
Service Rate per unit time



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

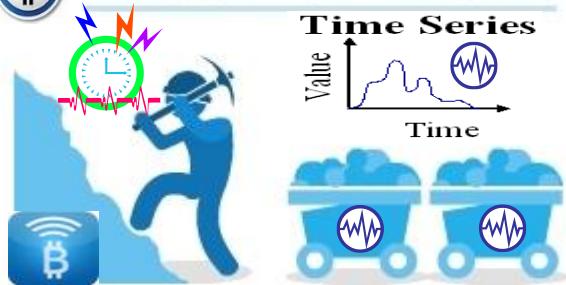
Fast ETS in-memory, and DETS persistent on-disk database

Mnesia database ("Organization_ID") Global name resolution

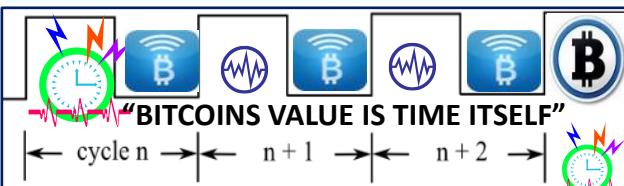
FROM	TO/CC-A	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
XBRL	/ CDL / DAML																		
ALPHA	NUMERIC																		
BREVITY	CODES																		
AZURE	BLETCHLEY																		
STRUCTURED																			
MILITARY	MESSAGE																		
TEMPLATE	FORMS																		
LOGIC	/ FILTERS																		



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

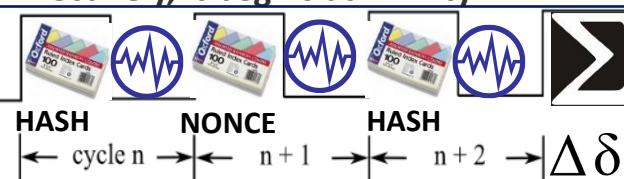


THROTTLE equivalent to difficulty. State
•target = maximum value of 8 bytes Snap
(2^{64}) divided by the difficulty.

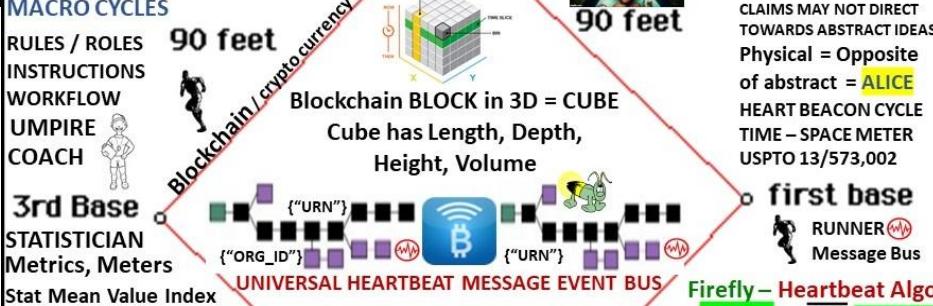
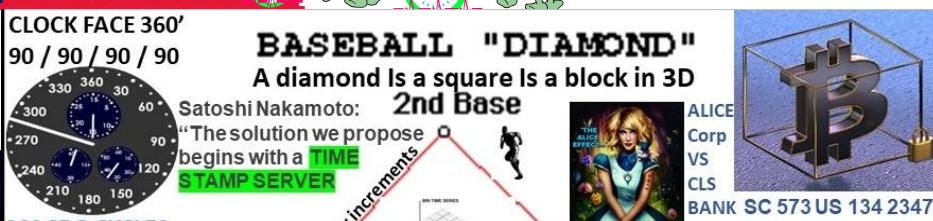
NONCE increments from 0..N until the target is met.



GUESS stores the guess
Effectively, it begins at infinity.



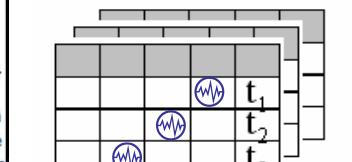
Proof-of-Work: users perform some form of work to participate. Work must be difficult for the client but easy for the server/network to verify. POW determines the approximate time between blocks = rate that new bitcoins are created. Work is submitted as a message/timestamp payload with a nonce value.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



300+Message Templates

FORM	CODE	NAME	ABSTRACT	DATA	FUNCTION	API	FORMAT	TYPE
FORM	CODE	NAME	ABSTRACT	DATA	FUNCTION	API	FORMAT	TYPE
ABSTRACT	CODE1	NAME1	ABSTRACT1	DATA1	FUNCTION1	API1	FORMAT1	TYPE1
ABSTRACT	CODE2	NAME2	ABSTRACT2	DATA2	FUNCTION2	API2	FORMAT2	TYPE2
ABSTRACT	CODE3	NAME3	ABSTRACT3	DATA3	FUNCTION3	API3	FORMAT3	TYPE3
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POW PAYLOAD : COMBINATIONS OF ENCRYPTED SYNTAX Attribute Series







real-time gross settlement system, currency exchange remittance distributed net

FEDERATION CONSENSUS ALGORITHM / PROTOCOL LIQUIDITY ON DEMAND

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 **FEDERATION** based consensus process that on demand liquidity backed by cooperative backing



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**



Neutral transaction protocol

secured REST messaging API's

Interledger Protocol ILP

ripple

Ripple Consensus Ledger (RCL)

Net joins, drops, splits, merges, moves
Agile, adhoc NETOPS Vs acquisition preserves the

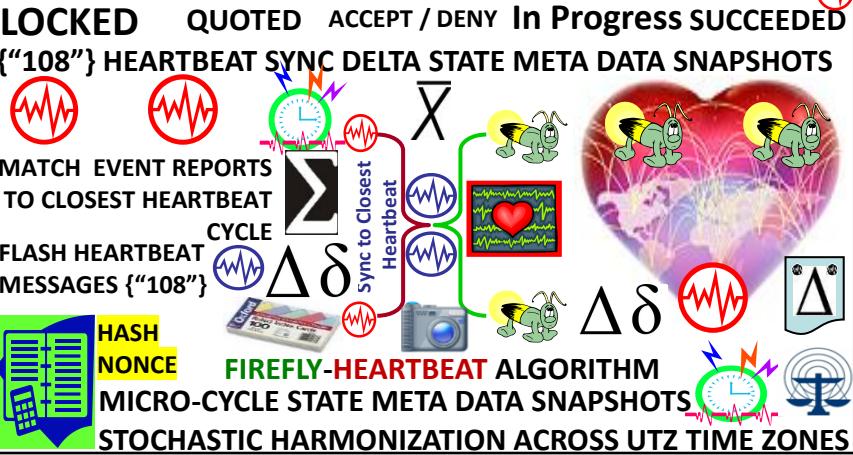
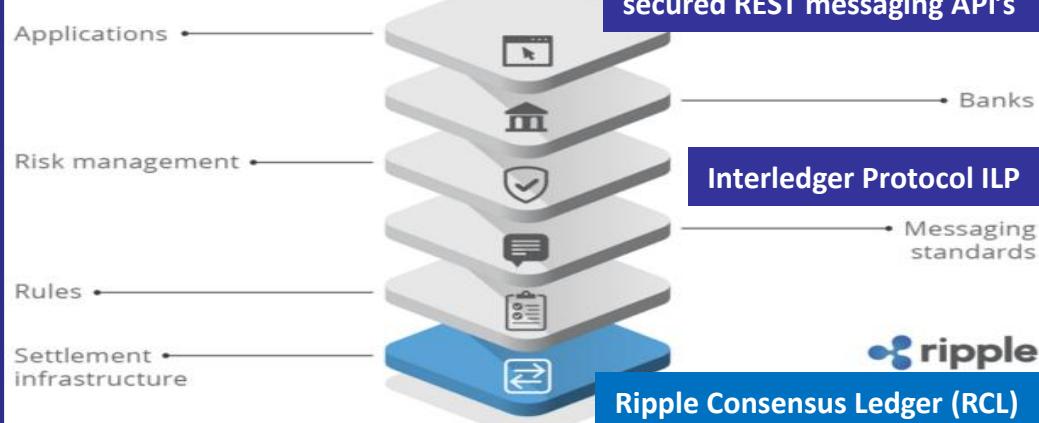
LIQUIDITY, ORGANIZATIONAL INTEGRITY OF TRADE FEDERATIONS

Federation Gateway



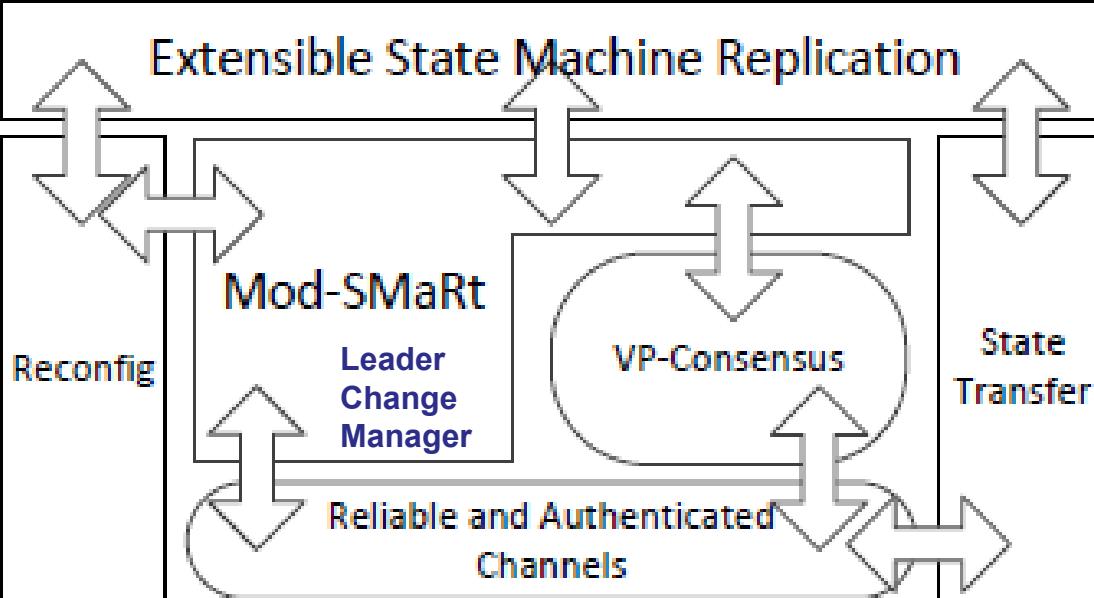
FEDERATION CONSENSUS PROTOCOL

{"GLOBAL"}
{"SHARED"}
{"DOMAIN"}
{"COMMUNITY"}
{"PRIVATE"}
{"GROUP ID"}



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.

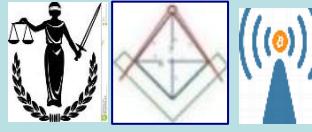
BFT-SMART needs an eventually synchronous system

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

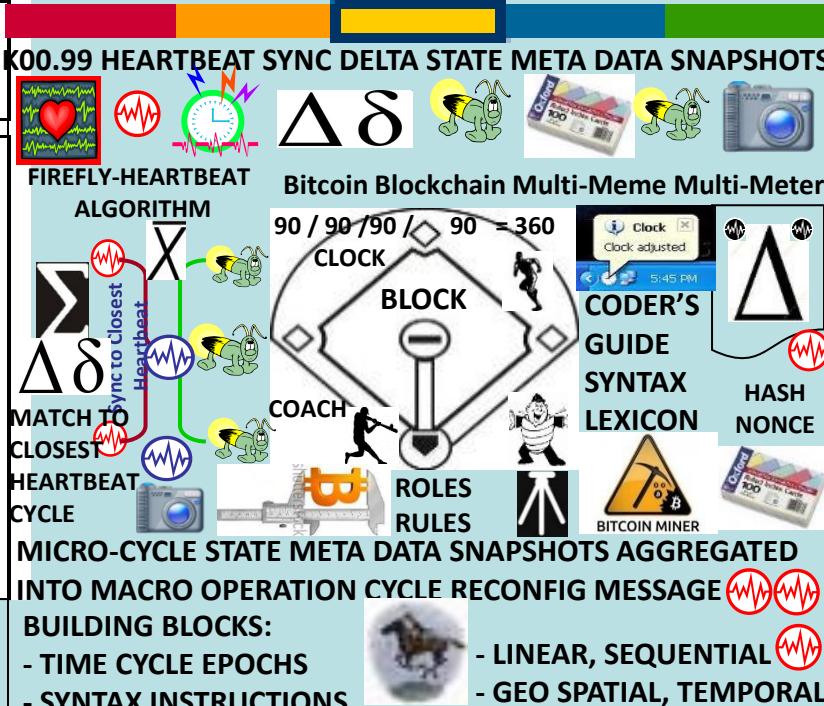
US Ct ALICE CORP V CLS BANK

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”

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.

DON: DECENTRALIZED ORACLE NETWORKS

Explicit Staking

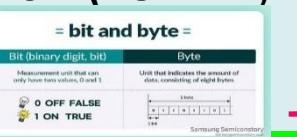


Cross-Chain Token (CCT) standard

DON Transaction-Execution Framework (DON-TEF)

Chainlink CCIP:Arbitrary Messaging, Token

Transfers: data encoded as BYTES 0101010
in smart contracts on different blockchains

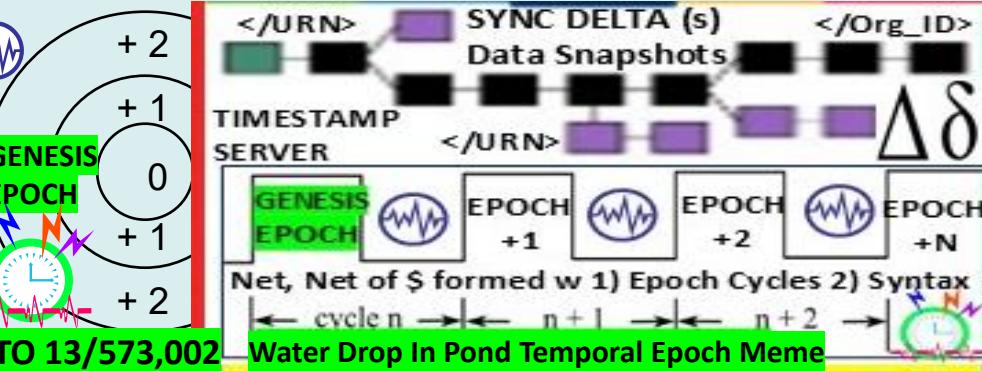


Explicit staking in Chainlink 2.0 oracle reports reflect the STATE of real-world events outside a blockchain (off-chain)



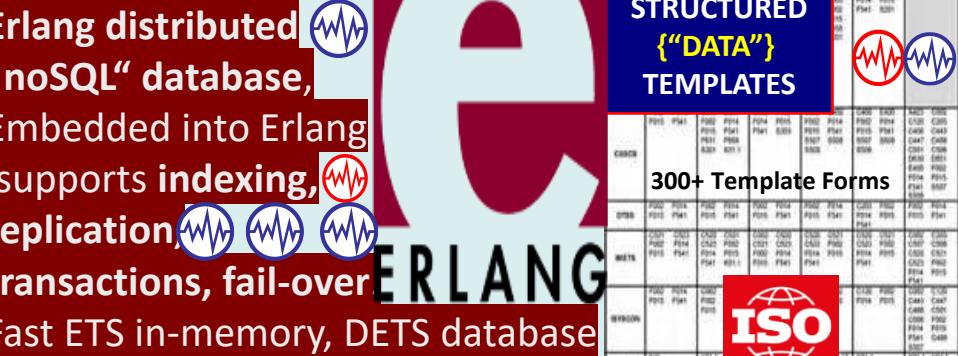
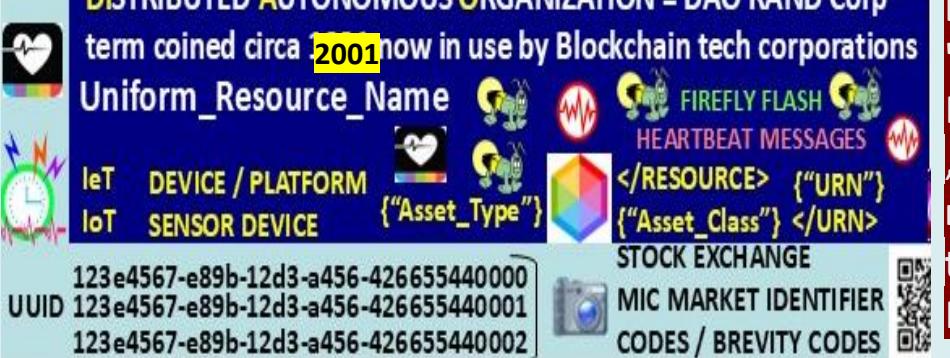
USPTO 13/573,002

Water Drop In Pond Temporal Epoch Meme



- Transaction-Execution Framework (TEF) [Section 6]: Decentralized Oracle Network framework for layer-2 systems that implements oracle support and FSS Fair Sequencing Services.
- Town Crier [Section 3.6.2]: An oracle technology uses a trusted execution environment (TEE) to enforce integrity, confidentiality on oracle data and computation. **TOWN CRIER** has capabilities that subsume those of DECO, but requires trust in a TEE: execution environment for applications, often with special-purpose hardware support. **Syncing verification**: SCA may verify the correctness of state updates when exec syncs, e.g., SNARKs attached to rollups.
- Guard rails: SCA may include provisions to protect against corruption or failures in exec. (See Section 7 for more details.)

Chainlink's explicit staking model: **SUPER LINEAR STAKING** where malicious actors are required to have a budget much larger than the combined deposits of all DON-TEF nodes

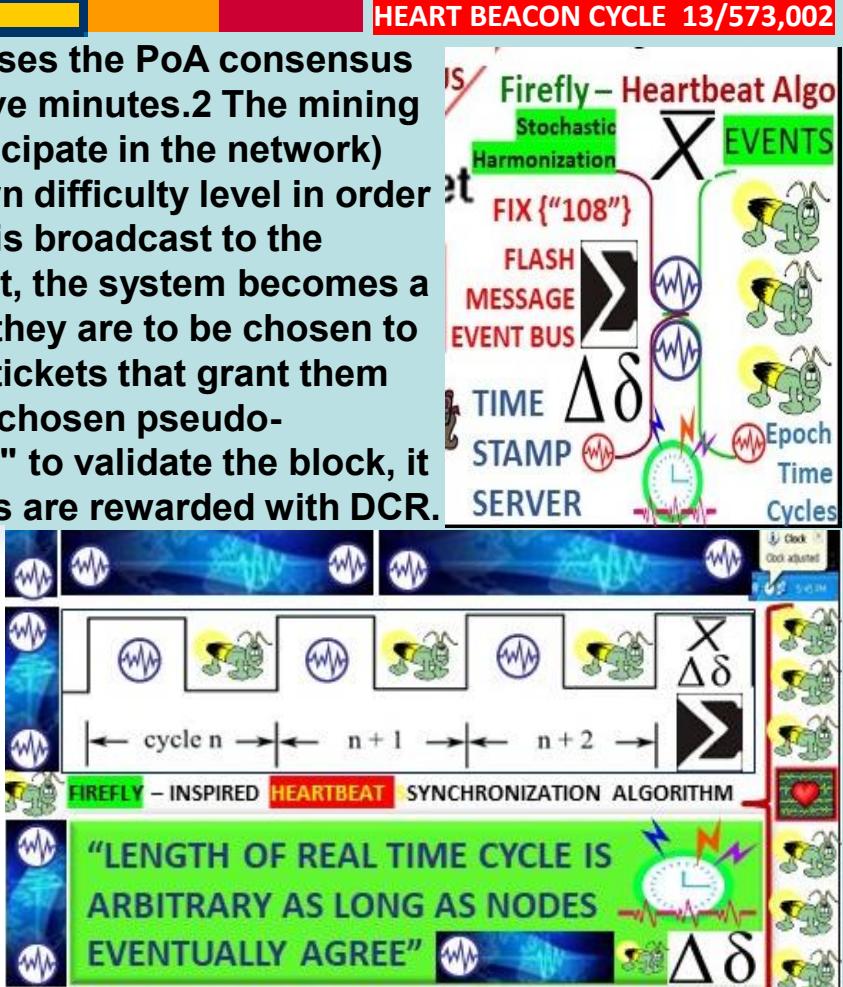
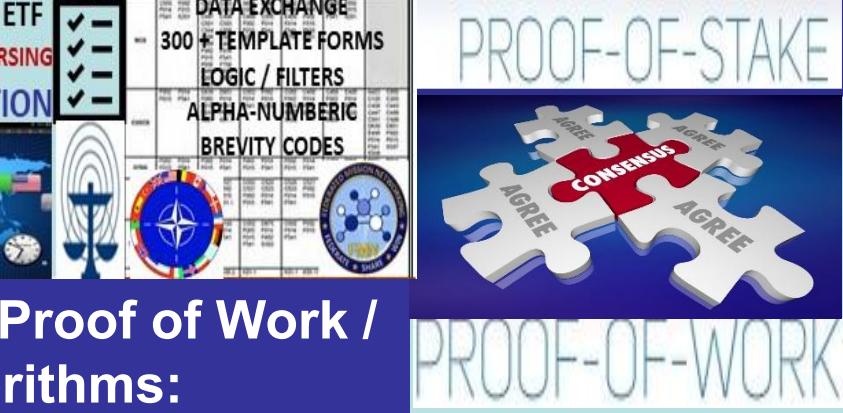
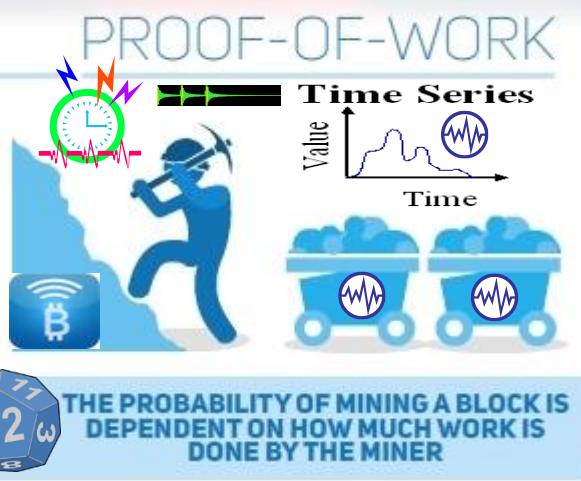
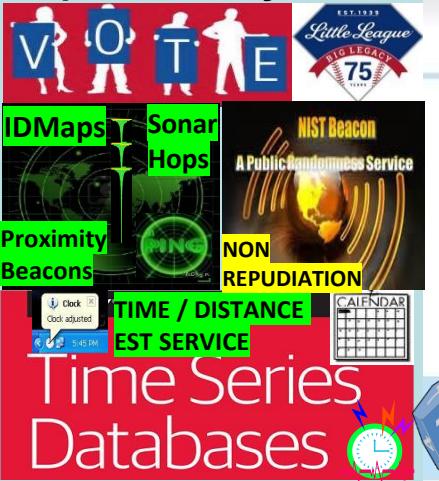




Proof-of-activity PoA is a combination of Proof of Work / Stake blockchain consensus algorithms:

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.





"THE FINANCIAL
NOSTRADAMUS"
RFGGIF MIDDIFTON



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



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



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...

GDP INDEX ECONOMY K% RULE



E \$ € ¥
currency index



Δδ

Price Indexes in Time and Space

Methods and Practice

Closer = cheaper

Firefly – Heartbeat

Algorithm Emulation

UTZ SYNC

STOCHASTIC HARMONIZATION

QRNB

NIST Beacon

A Public Randomness Service

IDMaps

SonarHops

DISTANCE ESTIMATION SERVICE

Time – Space

Meter Metrics

Rosetta Stone

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

Place Order X ritaseum™

Principal:	\$100.00
Collateral:	0%
Leverage:	10x
Notional Amount:	\$1000.00
Receive:	QCOM
Pay:	INTC

DeFi Ve TOKENS VeriDAO #DeFi All Market Orders ("108")

Denominating Asset: ~BTC:SATOSHIS

Contract Expiry: 16w

Contract Starts at: -

Contract Ends at: -

Cancel Contract at: -

Est. Trans. Fees: \$0.0437

Transaction Fees: \$1.0262

Leverage Fees: \$3.2528

Max. Profit/Loss: + \$95.6773 / - \$104.3227

Total Required: \$104.3227

Pay: ("TAGGED") CRYPTO

Switch » INTC

Pay: ("TAGGED") CRYPTO

Expiry: 16w Advanced

Search ("108")

Heartbeat Flash Messages Precedence Processing

Collateral Notional Expiry

FIREFLY HEARTBEAT ALGO EVENT MSG BUS

As long as INTC decline outpaces QCOM, you get paid. QCOM can be replaced with GOOG, or even AAPL although I feel AAPL will have its issues in the upcoming quarters as well.

("Org_ID") ("Tagged") ("URN")

Non Repudiation

STOP

TTL

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

SYNTAX LEXICON OPSCODE

Brevity Codes mapped to symbols sets for A.I. / Man – machine interface / interop

Proof of Authority



{"GROUP ID"}
{"Org_ID"}

Not pay to play, Node identity 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



{"GLOBAL"}
{"SHARED"}
{"DOMAIN"}
{"COMMUNITY"}
{"PRIVATE"}

Net joins, drops, splits, merges, moves

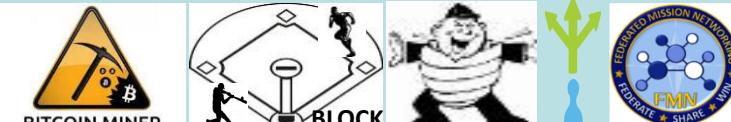
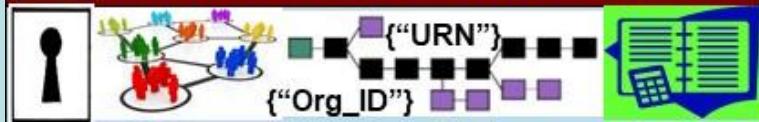
Agile, adhoc NETOPS Vs acquisition preserves the

CHANNEL

DISTRIBUTED AUTONOMOUS ORGANIZATIONS DAO

Heart Beacon Cycle

FEDERATE / TRADE FEDERATIONS



123e4567-e89b-12d3-a456-426655440000

UUID 123e4567-e89b-12d3-a456-426655440001

123e4567-e89b-12d3-a456-426655440002

Heartbeat Message

CROWD SOURCING / FUNDING

vector DAO

ETHEREUM: Decentralized Autonomous Organizations

VOTE ON BLOCKCHAIN

PARTIDO DEL FUTURO FEDERATED ID

DAO

NETOPS

INTEL

OPENSTACK

CHANNEL

LOGIC

KEYSTONE

FEDERATION

Identity Provider

Mapping Protocol

ROLES:

- OPS

- INTEL

- OPENSTACK

- CHANNEL

- LOGIC

- KEYSTONE

- FEDERATION

- Identity Provider

- Mapping Protocol

- ROLES:

- OPS

- INTEL

- OPENSTACK

- CHANNEL

- LOGIC

- KEYSTONE

- FEDERATION

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- Identity Provider

- Mapping Protocol

- ROLES:

- OPS

- INTEL

- OPENSTACK

- CHANNEL

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- INTEL

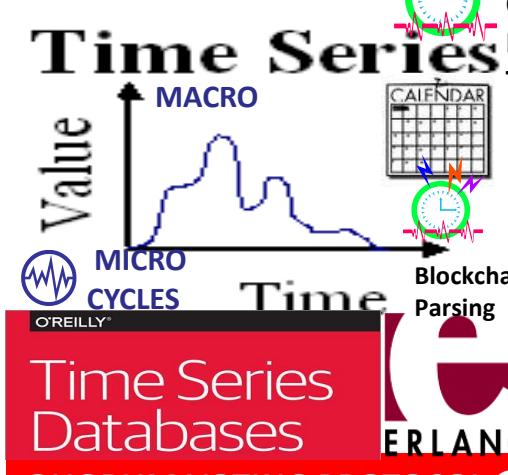
- OPENSTACK

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

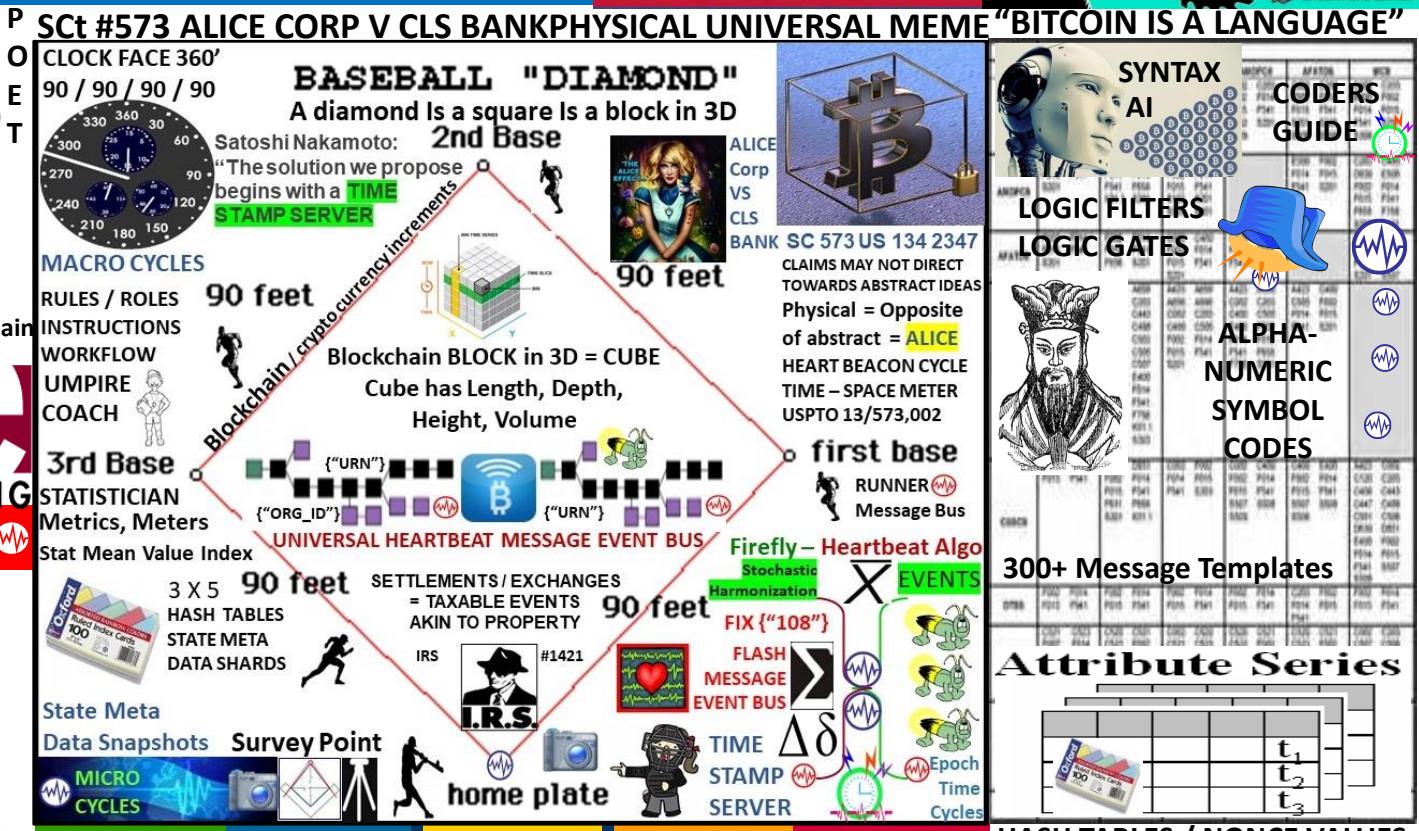
Voting based selection Instead of only using the stake size, the block generators can be selected by votes
ex: League MVP

MVP

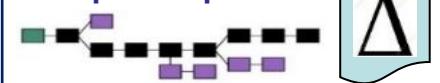


Robert's Rules quorum = minimum # of voting members who must be present at meetings to conduct business of the group

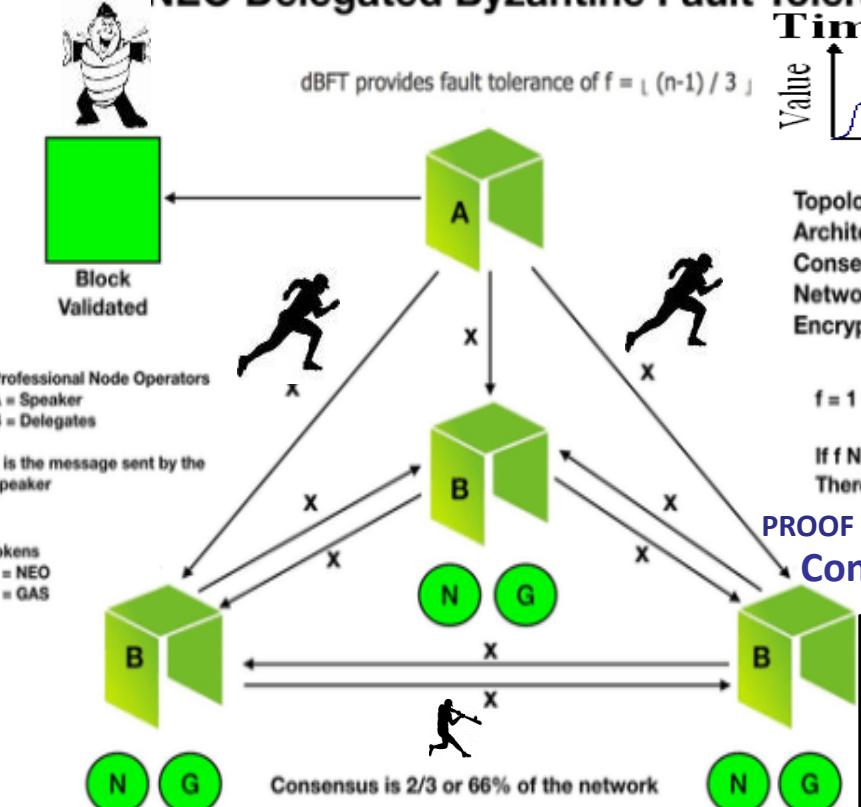
TOURNAMENT LEAGUE BOARD



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

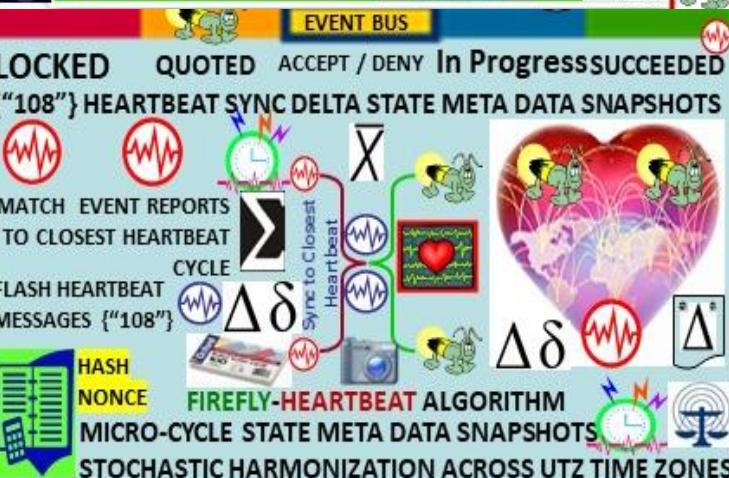
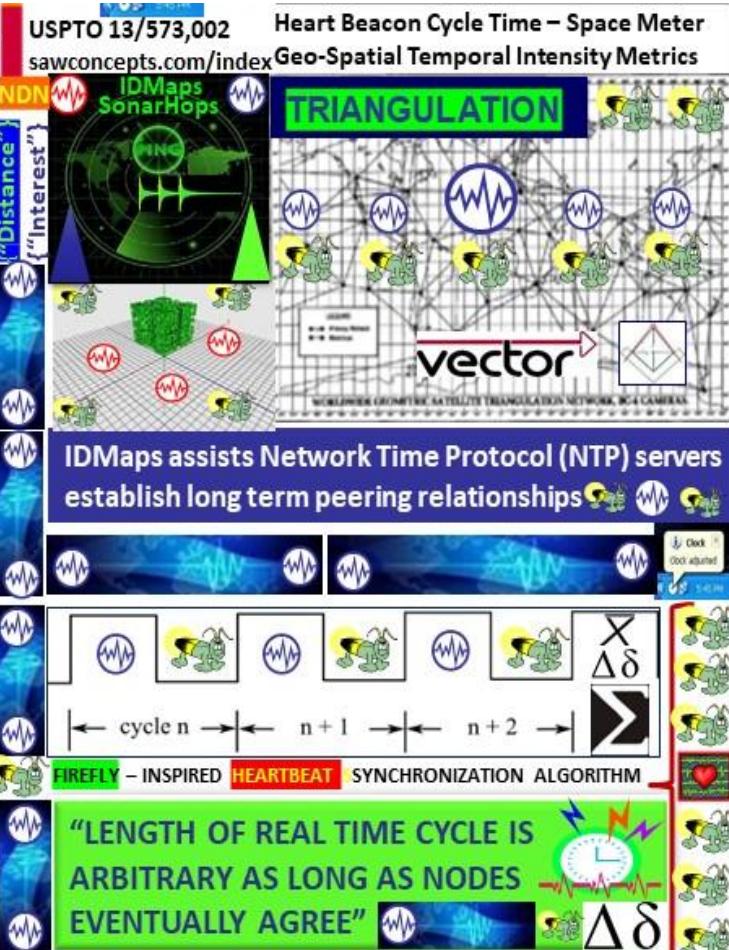


NEO Delegated Byzantine Fault Tolerance (dBFT)



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**

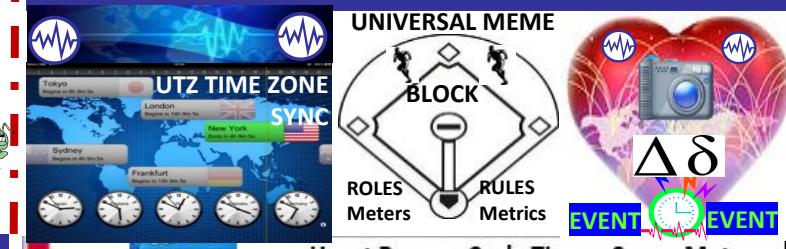
data structure that records who gossiped to whom in what order $\Delta\delta$

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

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



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



Round created
Witness



Famous witness
Election

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



Synchronous



Micro-Cycle

State Meta

Data Snapshots

Asynchronous

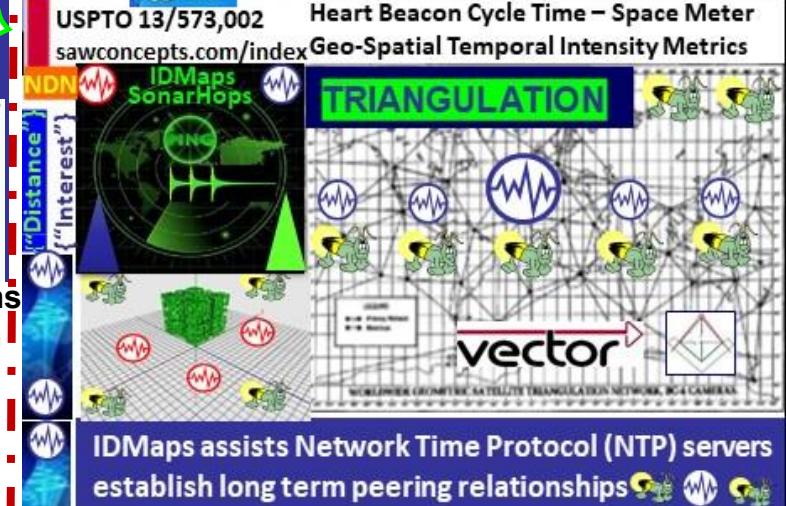


Nonce

Hash

Consensus timestamp

Consensus order $\Delta\delta$



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



FIREFLY HEARTBEAT Synchronization Algorithm



CLOCK TIME CYCLE INTERVAL EPOCHS
FIREFLY - INSPIRED HEARTBEAT SYNCHRONIZATION ALGORITHM



"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.

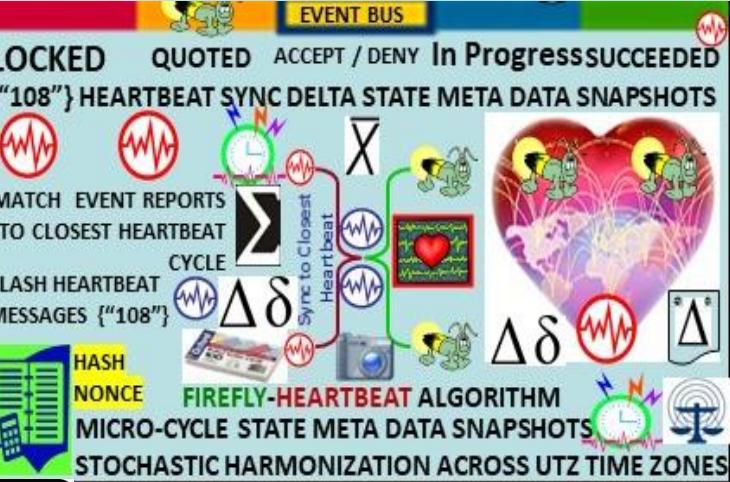
Iain Stewart, the inventor of the POB algorithm, uses an analogy to describe the algorithm: burnt coins are like mining rigs. In this analogy, a miner burns their coins to buy a virtual mining rig that gives them the power to mine blocks. The more coins burned by the miner, the bigger their virtual mining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



Heartbeat Event {"burn"} SLA = increase mining rig volume

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. SLA/O
(3) Heartbeat 2.
(4) Device Status 1.
(5) Device Status 2.

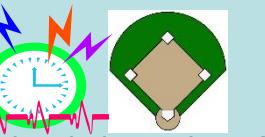
TAG	Volume / Size + / - Of rig	Token Award
{"Org_ID"} ActiveID	[UFO2_ACTIVEID]	</EVENT>
IF1_Heartbeat (IF-Node1)	[UFO2_HEARTBEAT:#]	</EVENT>
IF2_Heartbeat (IF-Node2)	[UFO2_HEARTBEAT:#]	</EVENT>
{"UUID"} IF1_DeviceStatus (IF-Node1)	[UFO2_DEVICESTAT:#]	</EVENT>
{"UUID"} IF2_DeviceStatus (IF-Node2)	[UFO2_DEVICESTAT:#]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



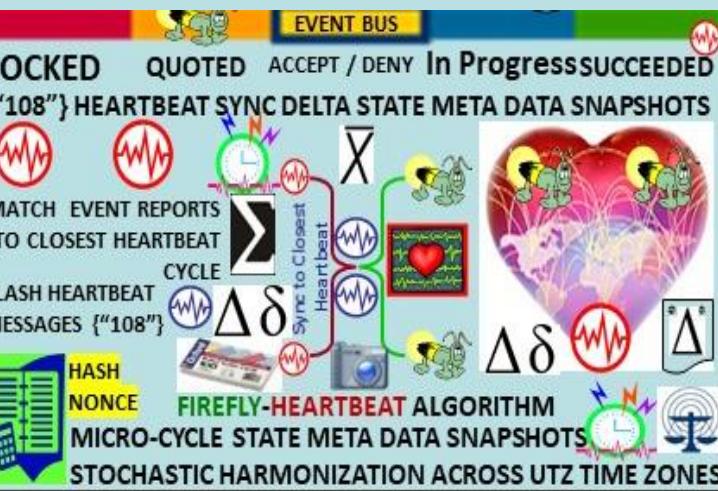
The larger the hard drive, the > possible solution values one can store on the hard drive, the more chances a miner has to match required hash value from his list, resulting in more chances to win the mining reward.



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.



EVENT MESSAGE BUS {"108"}



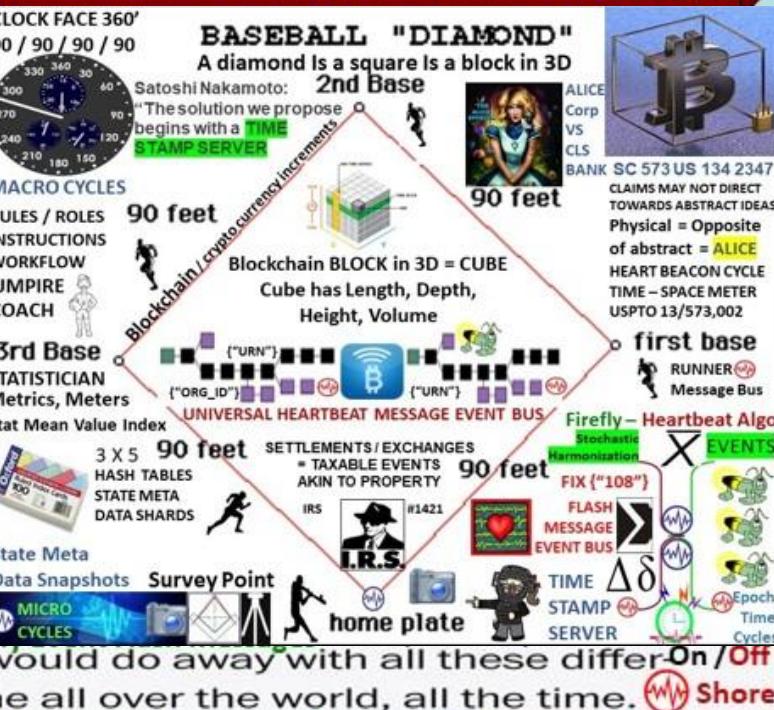
Contribution settings ▾



DISTRIBUTED AUTONOMOUS ORGANIZATIONS DAO

Heart Beacon Cycle

FEDERATE / TRADE FEDERATIONS



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.



queueing systems wait times stochastic processes, function scheduling Start, Stop TTL

Nicotib Erlang / Equilibrium Time – Sync Algorithms ROLES RULES

PROXIMITY BEACONS BLOCKCHAIN PARSING

ERLANG O'REILLY TIME EQUATIONS Time Series Databases

Heartbeat Date Time Stamps Sync Pulse STATE META DATA SNAPSHOTS BITCOIN BLOCKCHAIN TRANSACTIONS ARE BASED ON TIME SEQUENCING TRANSACTION STATE CHANGES TO DISTRIBUTED LEDGERS BEACON BROADCAST

MICRO- CYCLES QUANTUM RANDOM # NIST Beacon A Public Cryptocurrency Service ATOMIC CLOCK 05:08:57 NON REPUDIATION

Process transactions by precedence Attribute Series TIME Function Geo Spatial Temporal Series

Time Series Arrival Rate Queue Forms Limited Resource Service Rate RFID Delay * Utilization * Service Time (T_s)

ERLANG CALENDAR: Calculate Wait Times Time Stamp to Date Time Conversion

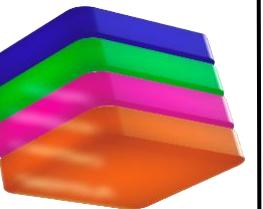


PROTON A CHAIN Virtual Machine

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

Consecutive Successes := 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)



DAG Acyclic Graph Parameters:

n: number of participants

k (sample size): between 1 and n

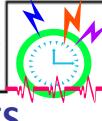
α (quorum size): between 1 and k

β (decision threshold): >= 1

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

1) EPOCH TIME INTERVALS

2) SYNTAX (not) used in epochs



BLOCKCHAIN EPOCH CLOCK TIME CYCLES

← cycle n → ← n + 1 → ← n + 2 → Δδ

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"



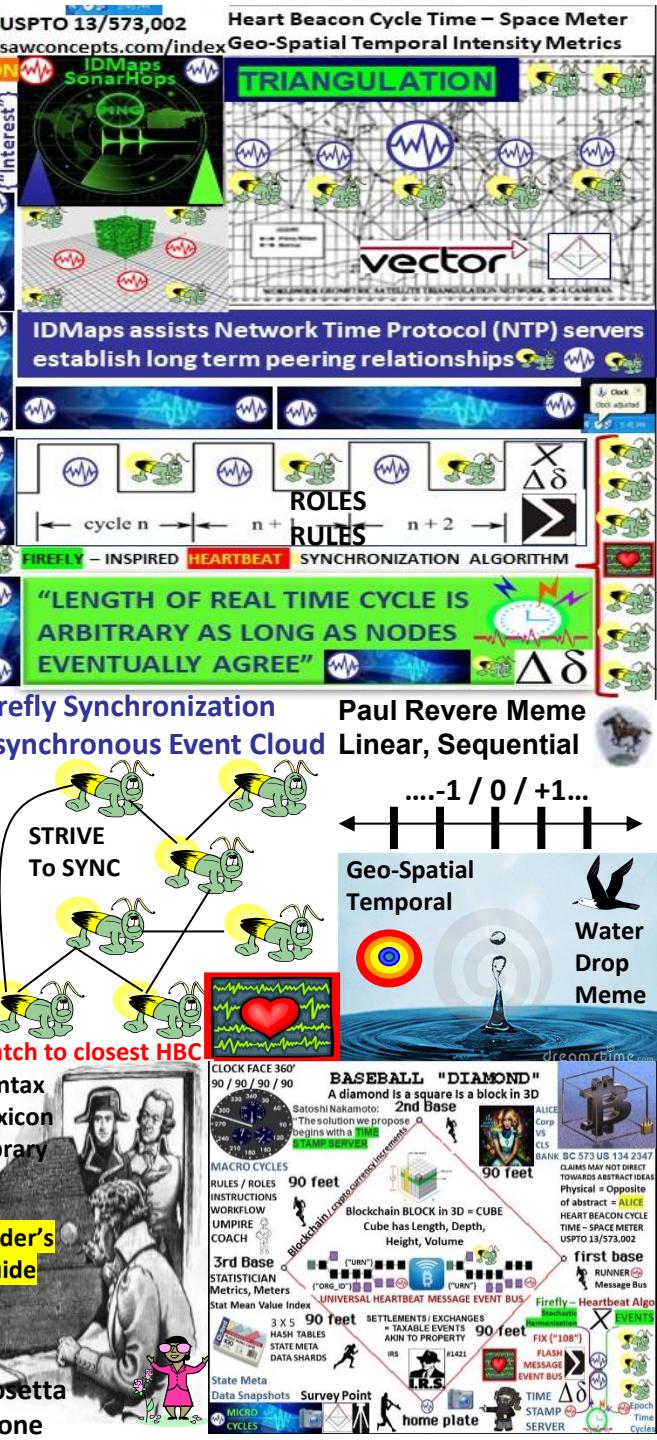
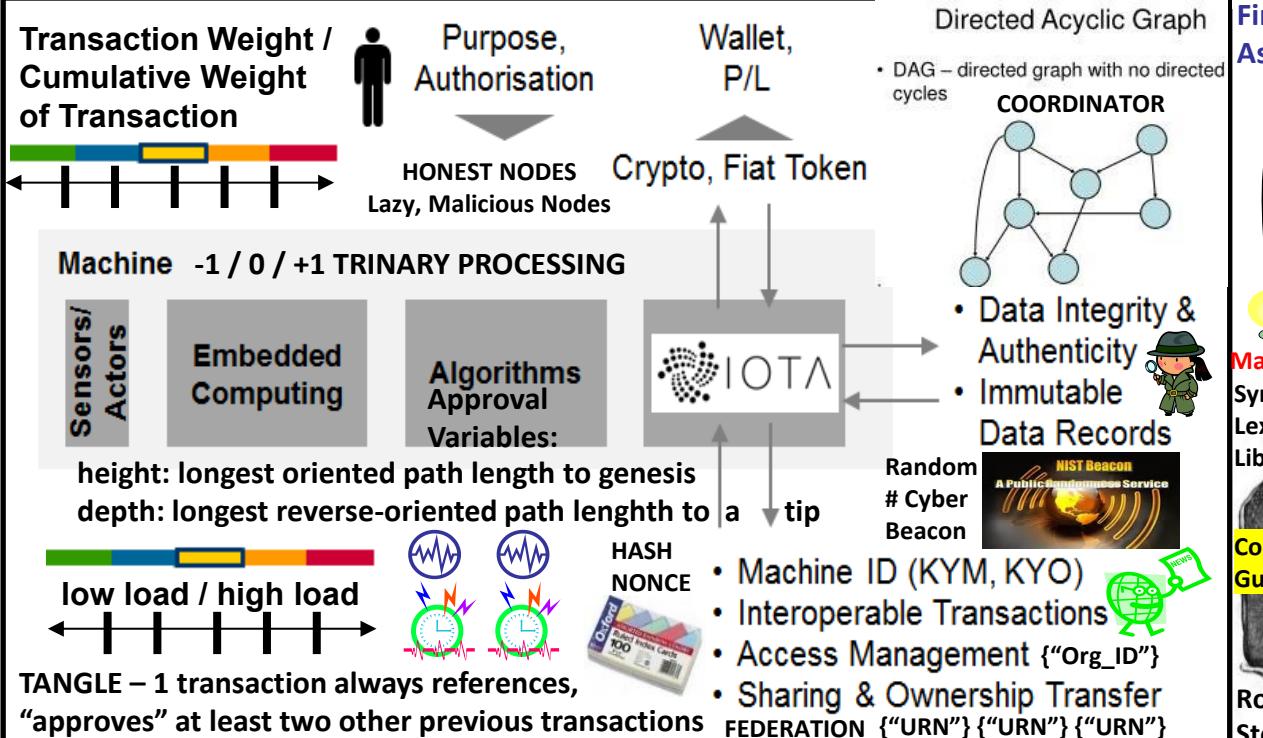


OTA: Internet Of Things IOT distributed ledger
with microtransactions without fees

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



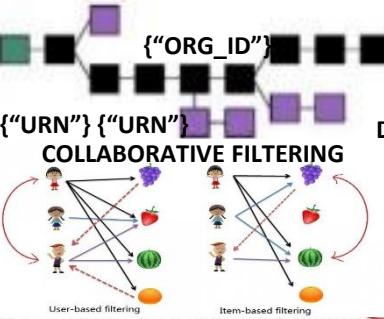


EGAAS

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

NAMED DATA NETWORKING, corrections

Time Series Databases

BLOCKCHAIN PARSING, SYNCHRONIZATION

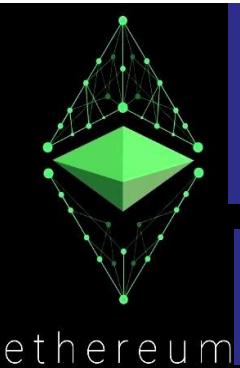


The current standard time common throughout the world is based on a 24-hour clock, with zones that are either 12 hours ahead or behind **Coordinated Universal Time (UTC)**. However, these time zones are decided upon by individual governments, without overall coordination and can even extend fourteen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





ETHER: Compensate Resource Contribution

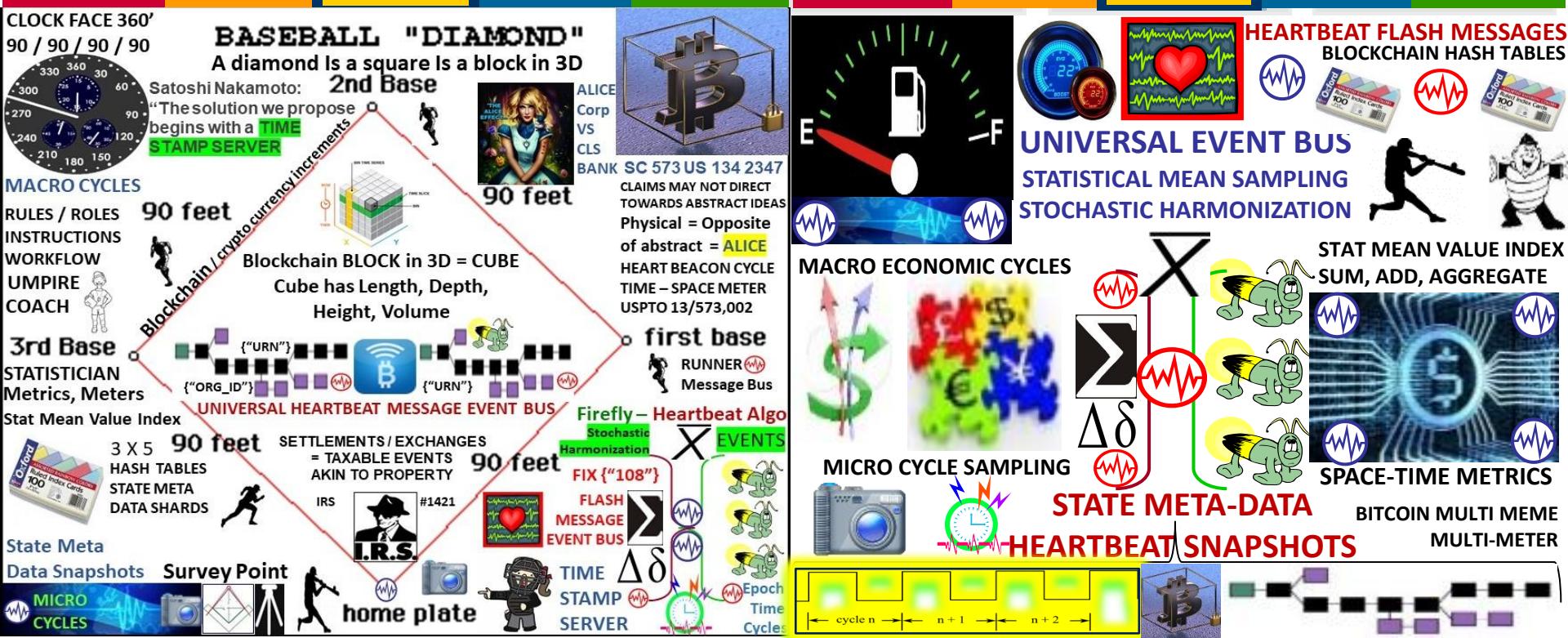
Gas: price to
Run contract
transactions

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



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



DFINITY

RANDOM # BEACON

NIST Beacon
A Public Randomness Service

QUANTUM RANDOM #

BLOCKCHAIN NERVOUS SYSTEM
HEARTBEAT {"108"} State Meta Data Snapshot Msgs

STATEFUL DECENTRALIZED NET PROTOCOL:
Decentralized process workflows instead of
Centralized Server farms

GROUP Signature is random number

- Number selects next group {"Org_ID"} {"Org_ID"}
- Next group use previous no. as message
- Verifiable Random Function
- Numbers verifiable using group public key
- New values produced in threshold agreement
- Random members {"Org_ID"} {"Org_ID"}**
- Each process is a member of multiple groups
- Groups intersect, have +/- 400 members
- BLS signature scheme**
- Math magic... If 51% of group members broadcast "signature shares" on a message, these are combined to create the group's threshold signature.

HYPER GEOMETRIC PROBABILITY CALCULATOR

CONSENSUS / RANDOM BEACON

Threshold relay chain generates randomness, records network metadata & validation tree "state root". State and updates to state stored on shards... State transitions passed to Validation Tree

Each process has mining identity

- Public key with meta data attached
- IDs mediate participation**
- Private network: trusted dealer defines list
- Public network: CC security deposit, USCIDs

UTZ TIME ZONE SYNC

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

CLOCK FACE 360'
90 / 90 / 90 / 90

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

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

2nd Base

ALICE Corp VS CLS 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

first base

RUNNER Message Bus

EVENTS

Fix {"108"}

FLASH MESSAGE EVENT BUS

TIME STAMP SERVER

Epoch Time Cycles

SETTLEMENTS / EXCHANGES = TAXABLE EVENTS AKIN TO PROPERTY

IRS #1421

home plate

MICRO CYCLES

State Meta Data Snapshots Survey Point

3 X 5 HASH TABLES STATE META DATA SHARDS

Quantum Random #



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.



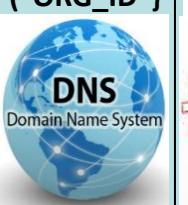
Aeons: energy for applications implemented on the platform.

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



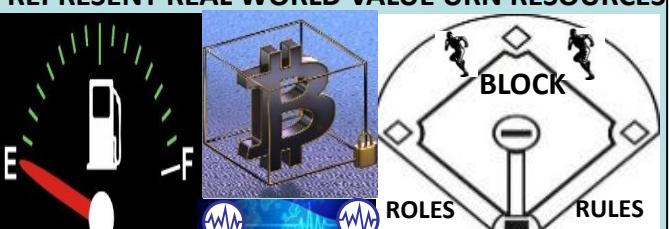
Terra Trade Reference Currency TRC "world currency" Bernard A. Lietaer Belgian economist proposed 1991 Basket of 9-12 most important commodities. Public issued demurrage fees for storage, shipping, handling

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



ROLES Meters RULES Metrics





"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.

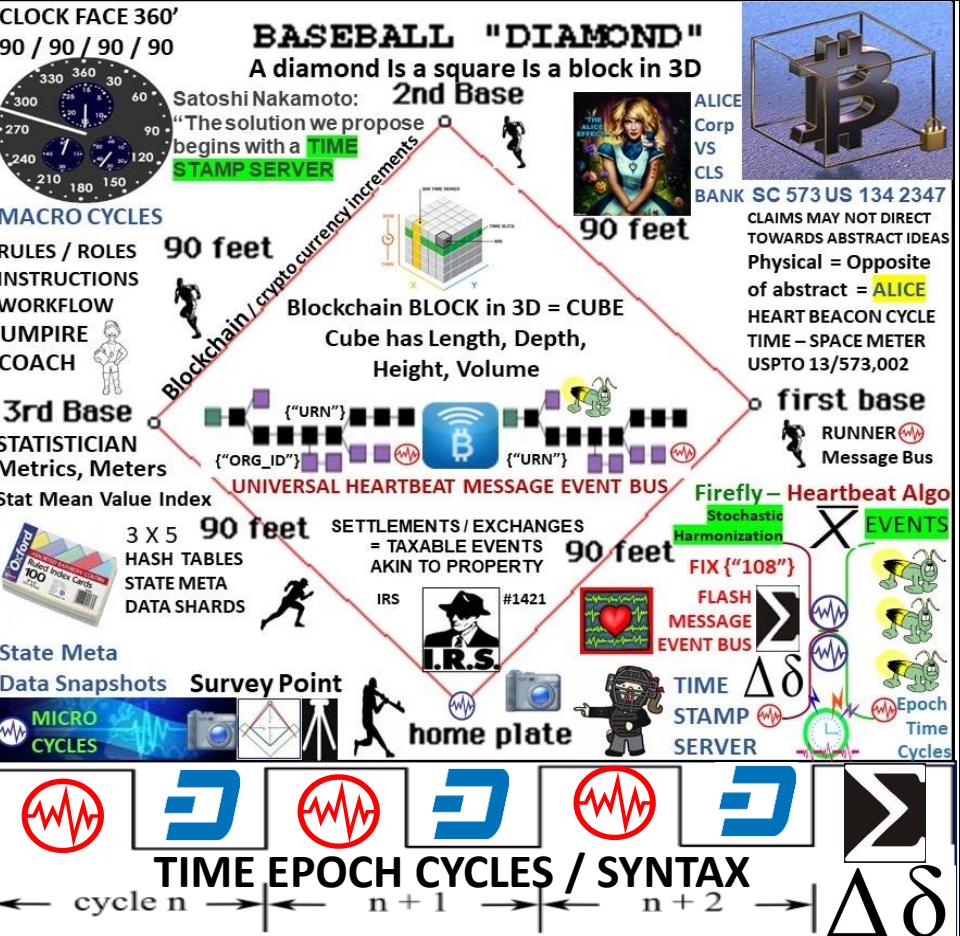
"the block reward is divvied up in three parts. The first 45 percent goes to [Dash's miners](#). Another 45 percent goes to its Masternodes. And 10 percent is set aside to fund whatever other jobs or expenditures the Dash network deems necessary"

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

DAO: RAND THINK TANK TERM COINED + / - 2001

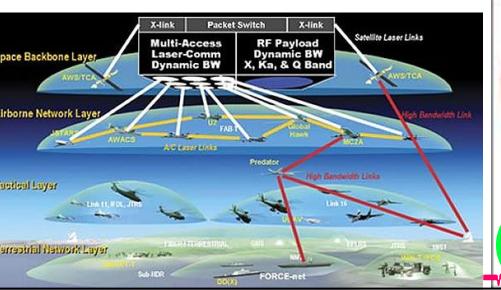
NETWORK
CENTRIC
WARFARE

The logo consists of three main elements: a circular icon on the left containing a stylized clock face with red and blue hands; a black and white illustration of a bird in flight in the center; and a circular icon on the right showing a horse running.



STOCHASTIC HARMONIZATION **FIREFLY-HEARTBEAT** EVENT BUS

HEART BEACON CYCLE = IMPROVEMENT TO NETWORK CENTRIC WARFARE



irefly - 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.



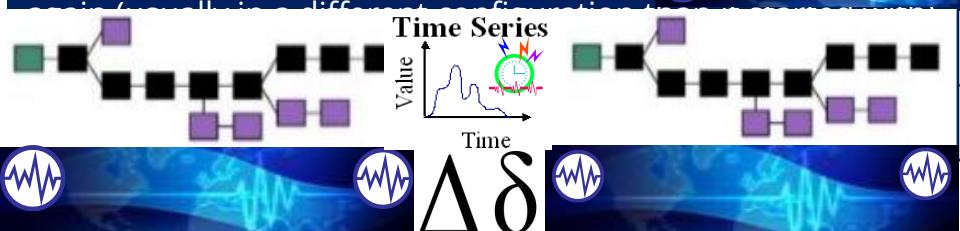
1. Part of the blockchain state is locked via multisignature or smart contract convention, so that a specific set of participants must completely agree with each other to update it.



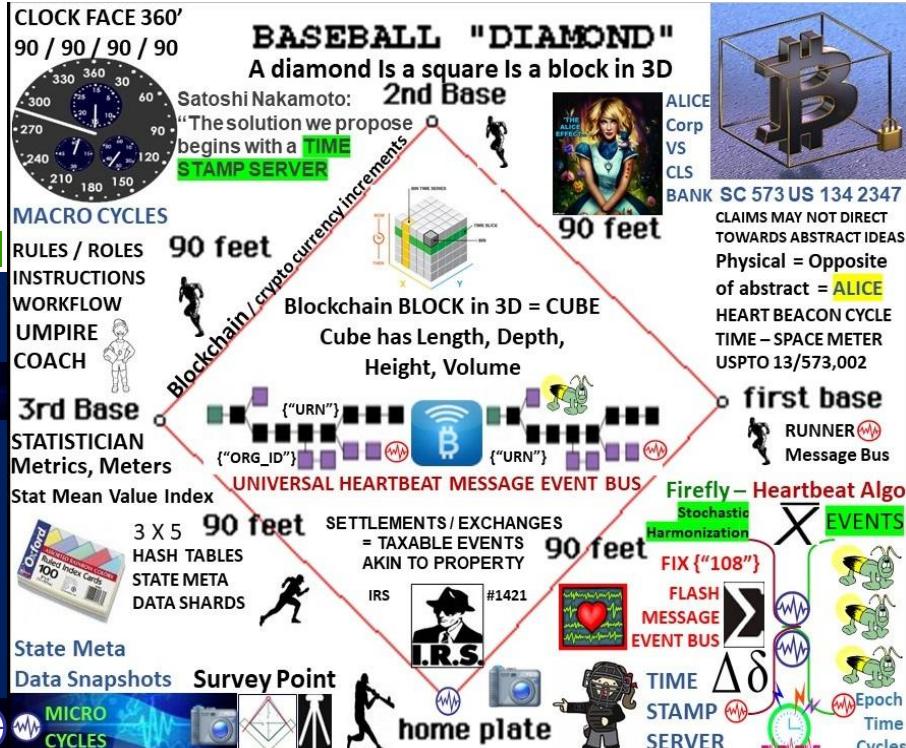
2. Participants update the state amongst themselves by constructing and signing transactions that *could* be submitted to the blockchain, but instead are made available for a new update "trumps" previous update.



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

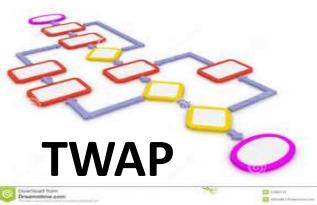


Firefly - Heartbeat synchronization: nodes in a distributed system generate periodic, local "heartbeat" events approximately at the same time with a goal of all nodes starting / ending cycles at the same time eventually = HB CYCLE

TWAP Algorithm Manages Bitcoin Price Volatility Algorithm



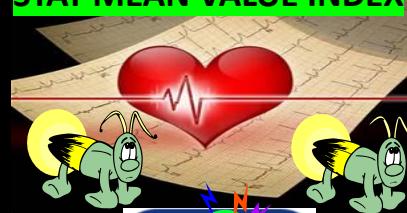
TWAP GOAL: provide a Time Weighted Average Price Benchmark



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

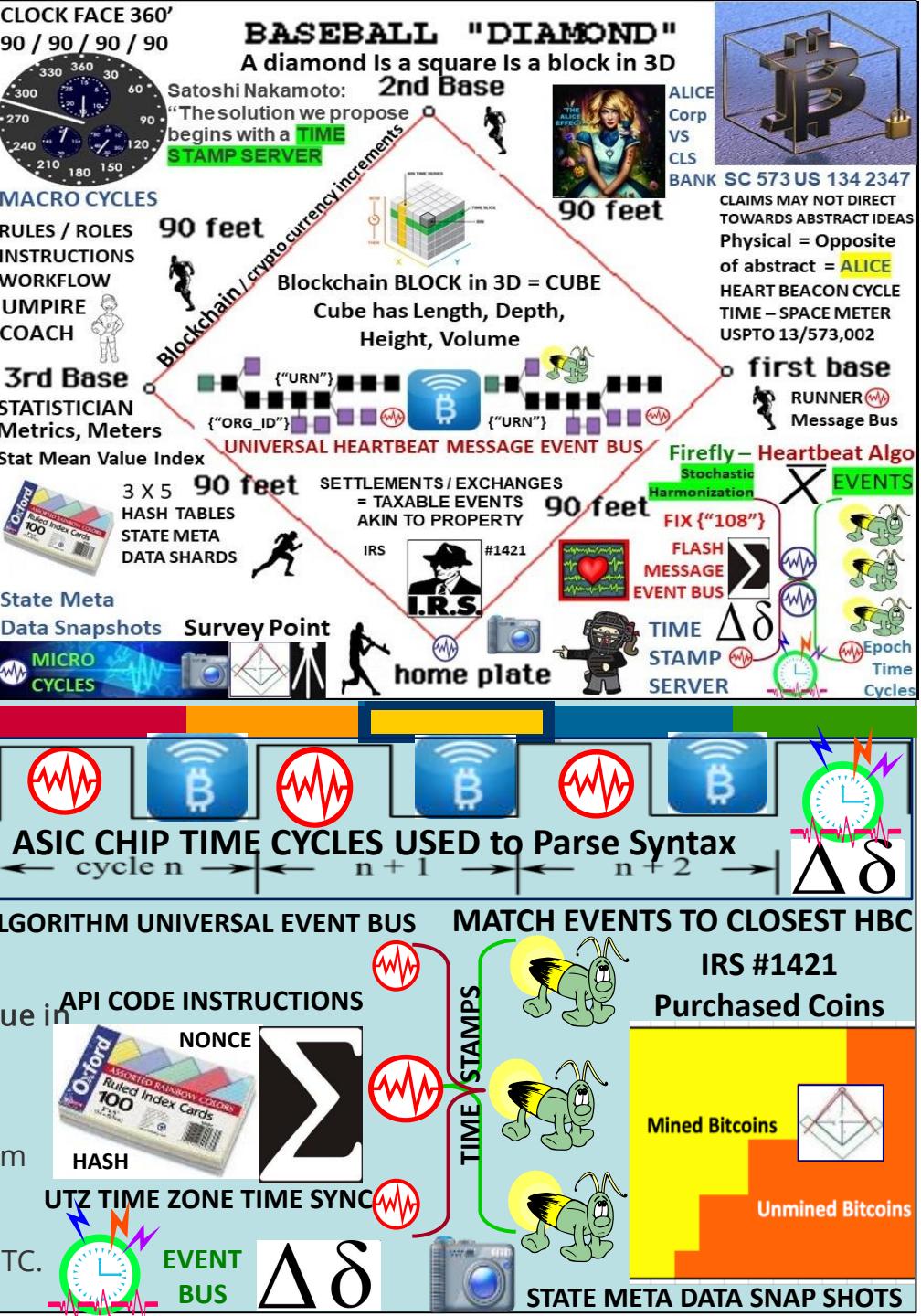
Get by: Block-height, Time-stamp or Transaction

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

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.

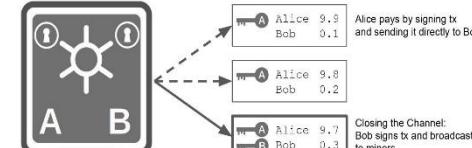




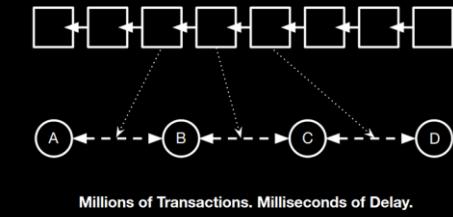
**transactions sent over / off chain
micropayment channels**

Micropayment Channels

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

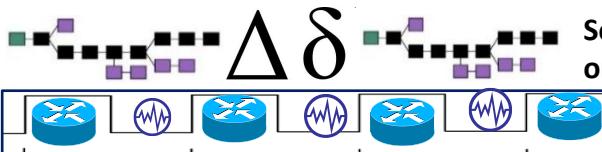


LIGHTNING



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



RULES / ROLES

INSTRUCTIONS

WORKFLOW

UMPIRE
COACH

3rd Base

STATISTICIAN
Metrics, Meters

Stat Mean Value Index



State Meta

Data Snapshots

Survey Point

MICRO CYCLES



EVENT REPORTING ACROSS TIME-SPACE



MESSAGE EVENT BUS

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**”

TIME STAMP SERVER

90 feet

Blockchain / cryptocurrency increments

90 feet

Blockchain BLOCK in 3D = CUBE

Cube has Length, Depth,

Height, Volume

90 feet

Blockchain / cryptocurrency increments

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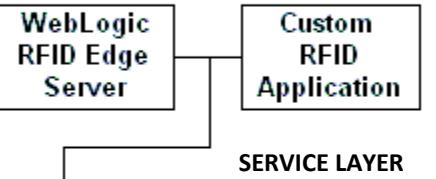
Cube has Length, Depth,

Electronic Product Code Information Services (EPCIS)

GS1 Standard for creating, sharing visibility event data



EPCIS DATA MODEL



SERVICE LAYER

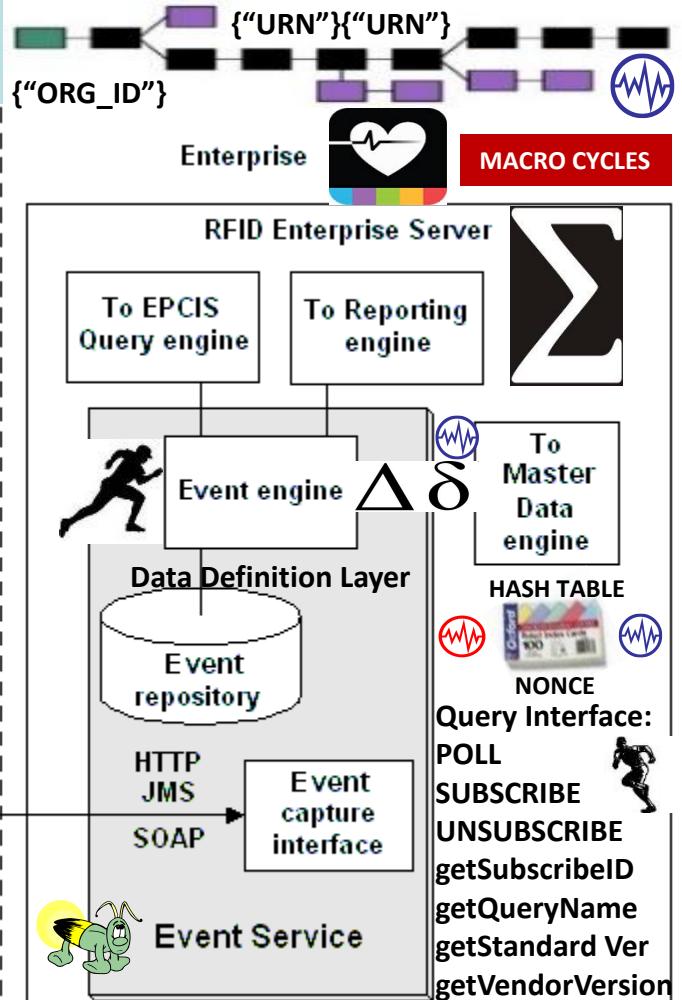
XML

ObjectEvent

AggregationEvent

QuantityEvent

TransactionEvent



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 event

Why Information about the business context, including:

a Identifier that indicates the business step taking place



!st Compiler
DESIGN
Still the **BEST**

ROSETTA STONE

BIZ USE CASES
ALPHA NUMERIC BREVITY CODES

SYNTAX LEXICON CODE GUIDE



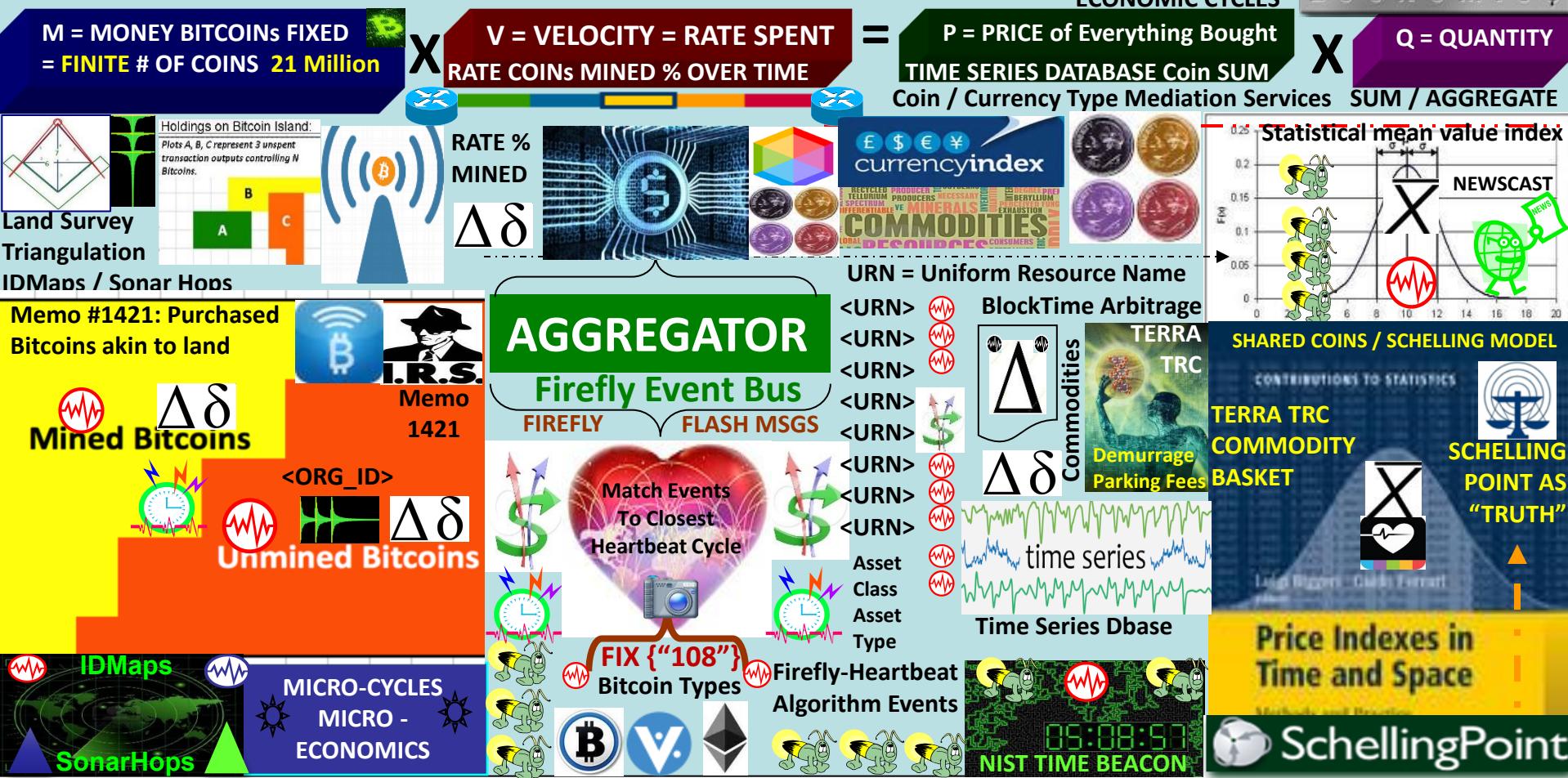
NETOPS SOP



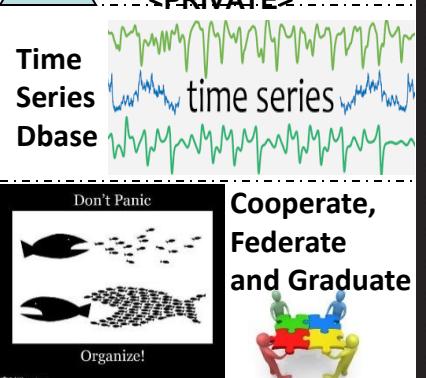
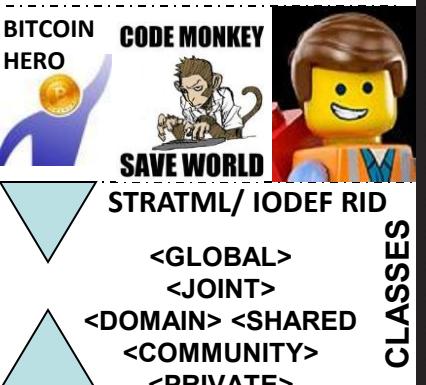
How 'Bitbanks' Could Solve Bitcoin's Volatility Problem

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

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

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

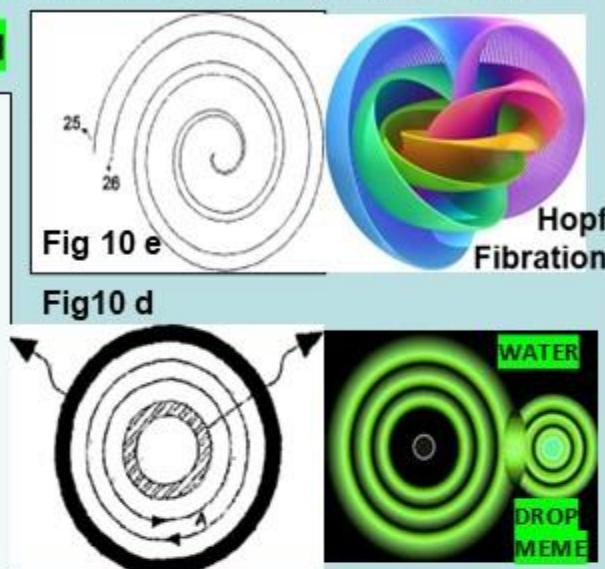
CHALLENGING BUT ACHIEVABLE TASKS





ENERGY PRODUCTION

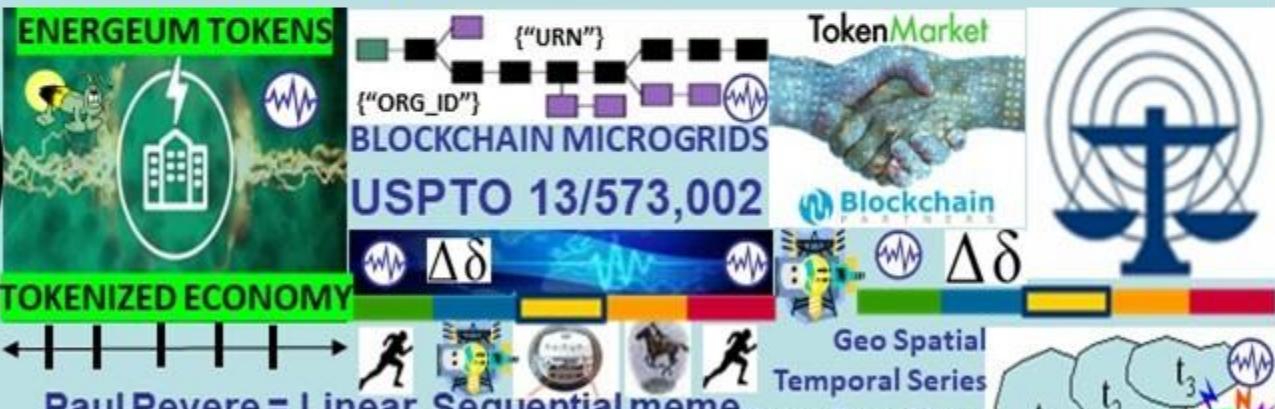
ABSTRACT: A propulsion system for aerial, terrestrial, underwater or space propulsion, through manipulation (or engineering) of the vacuum with proper electromagnetic interactions. Vacuum manipulation.. new form of propulsion, and has applications in energy production and on change of time decay of radioactive 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



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.
- SLA/O





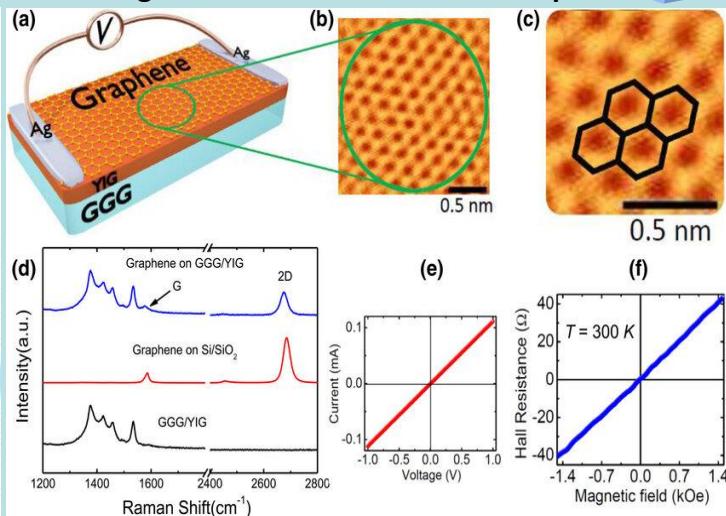
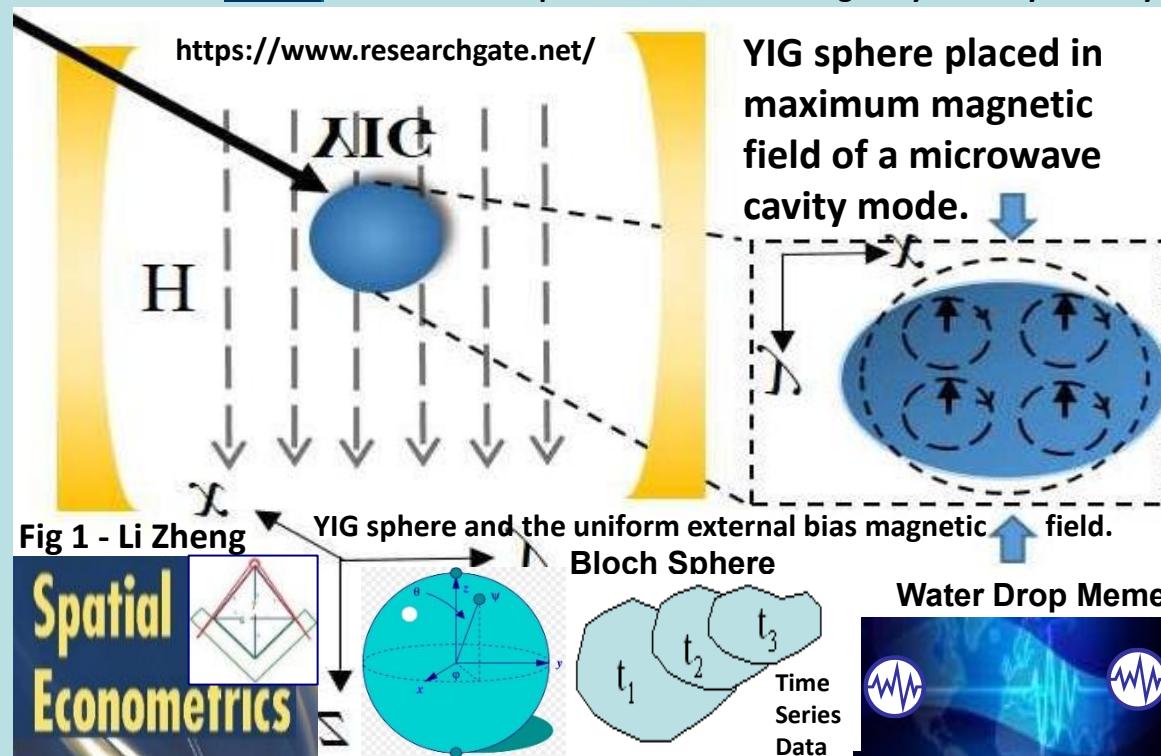
TESLA Harmonic Sphere Flux Resonator

"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]



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



The Variance of...

the partial
derivative
w.r.t. ϑ of...

the log-likelihood
function of θ
given observed
value of X

$$\Delta\delta_{\mathcal{I}(\boldsymbol{\theta})} = Var\left(\frac{\partial}{\partial \boldsymbol{\theta}} \ell(\boldsymbol{\theta} | X)\right)$$



USPTO 13/573,002 Time – Space Meter  Metrics

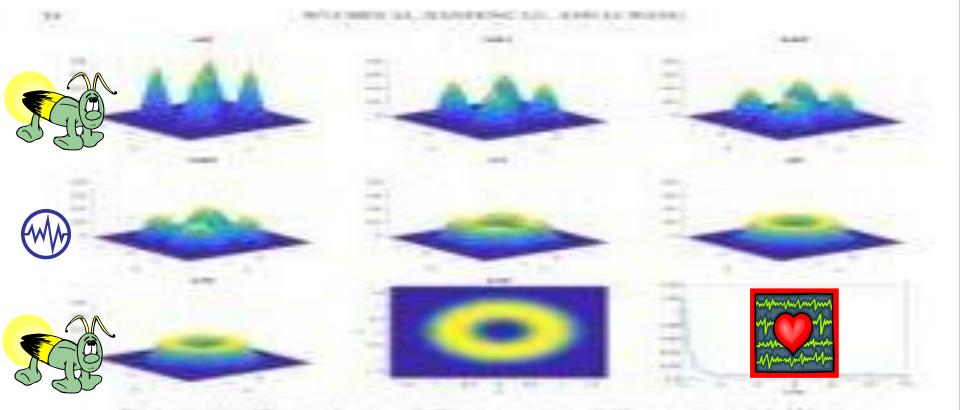
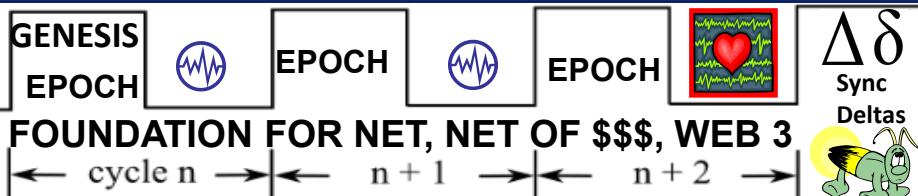


Figure 3.6. The evolution of 2001 magnetopause drift equations with $H(t,x) = \exp(-\beta t|x|)$ and $\dot{H}(t,x) = -\frac{1}{2}\ln(\exp(-\beta t))$. The steady state is a z-shield profile with innermost and outermost radius $R_{in} = \frac{1}{2}$, $R_{out} = \sqrt{\frac{3}{2}}$. Our unperturbed distance is $\|\vec{r}_0\| = 1.6$, $2.0R_{in}$, and results shown are for $\Delta x = \Delta y = 0.1$, $\gamma = 6.1$. Dispersionless loss parameter is $(m^2 - 3.03) \times 10^{-3}$, and $\beta = 100$ is used for representing the dissipation.

$$\partial_{\mu} \phi = \nabla^{\perp} \cdot \left[\rho \nabla \left(\frac{1}{2} \partial X_0 \rho + \Phi(\rho) \right) \right]$$

second, $kT_{\text{eff}} = 10^2$, and initial conditions consisting of low temperatures. In this case, we do not see a regularization until $t \approx 10^{10}$ years (as discussed earlier). As seen in Fig. 13, the density converges to the equilibrium value $\rho_{\text{eq}} = \frac{1}{4\pi G} \approx 10^{-2}$ very rapidly. The phase functions extract particles, and the convergence of the system's mass is accompanied via our coupling with the massless equilibrium until observe a power law.



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

International Space Federation .org



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.

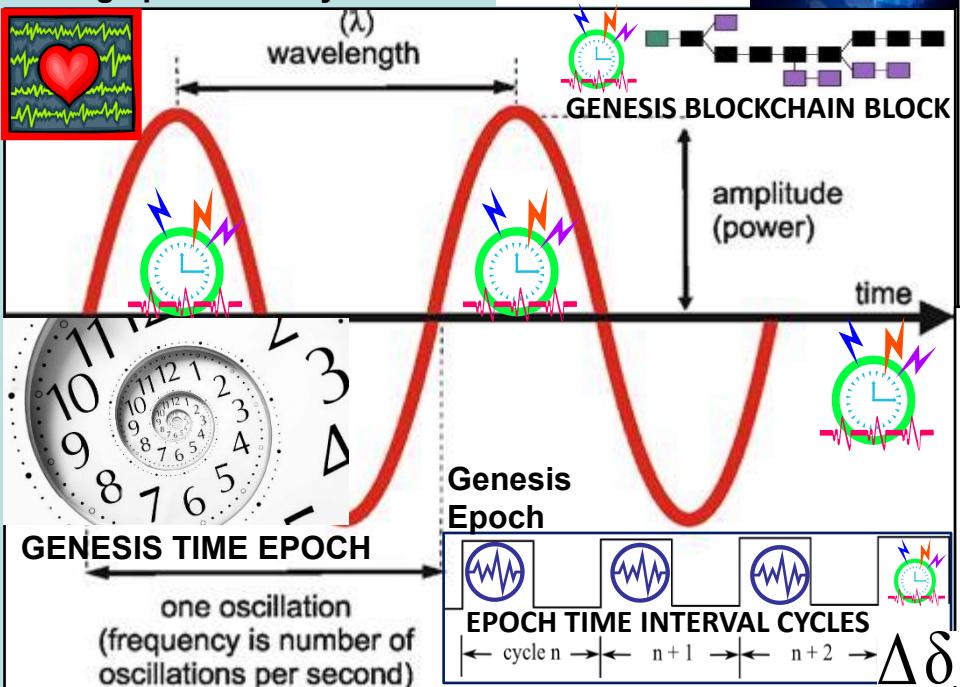
THESES: All things net, net of programmable \$\$\$ are formed using:

ENERGY / DATA WAVE METRICS / METERS

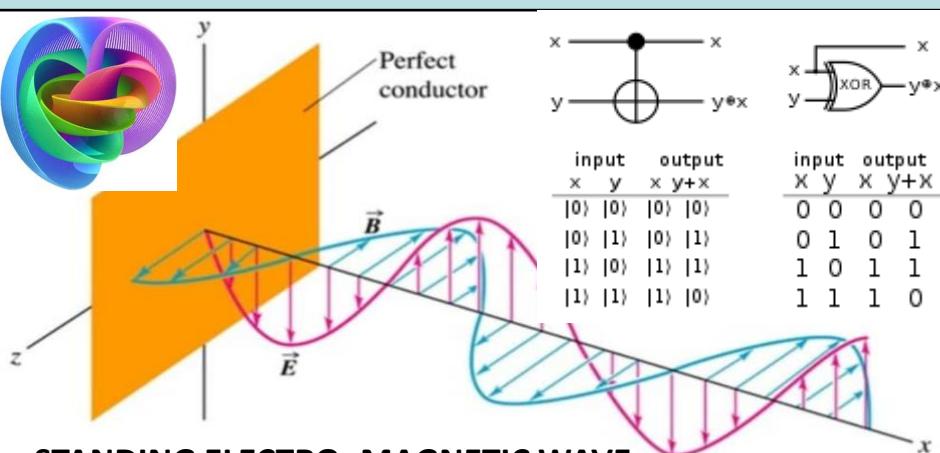
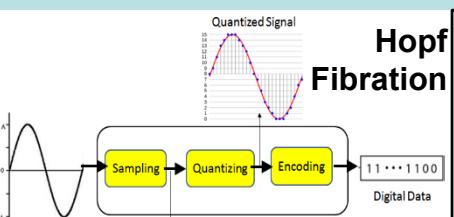
BELL STATE QUANTUM COMPUTING

1) Time epochs created by quartz crystal silicon chips

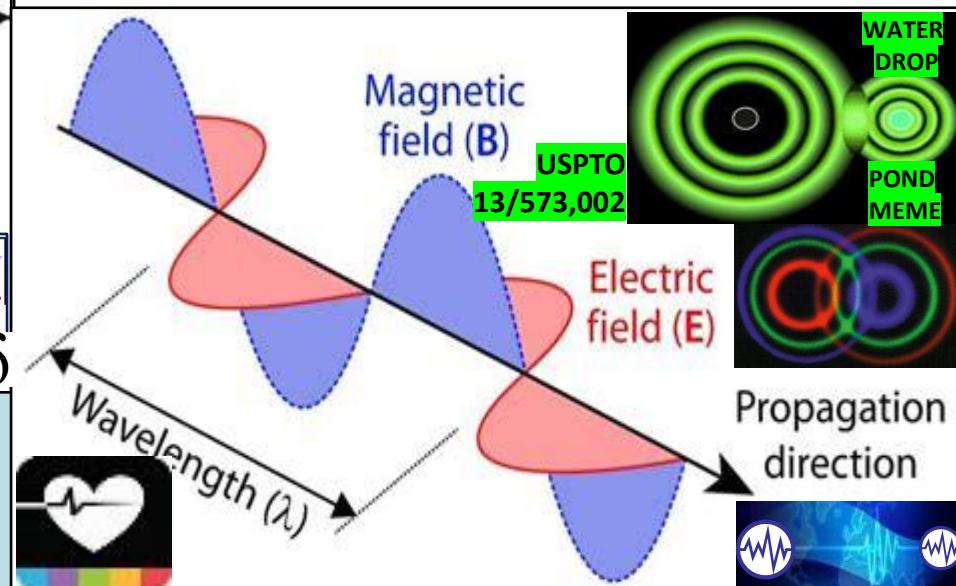
2) Syntax used / not used as programming instructions during epoch time cycles



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

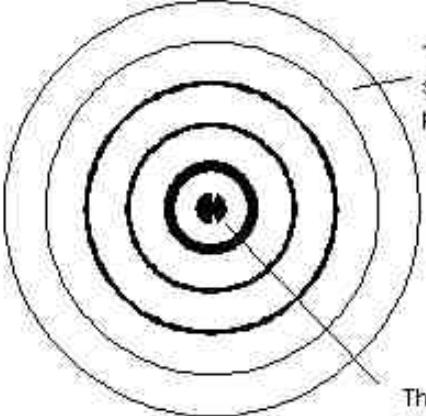


A **standing** electromagnetic wave does not propagate along the x-axis; instead, at every point on the x-axis the **E** and **B** fields simply oscillate.



"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/>



On Truth & Reality The Wave Structure of Matter (WSM) in Space

The pointlike Particle effect at the Wave Center

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. $x^2 + y^2 + z^2 = r^2$

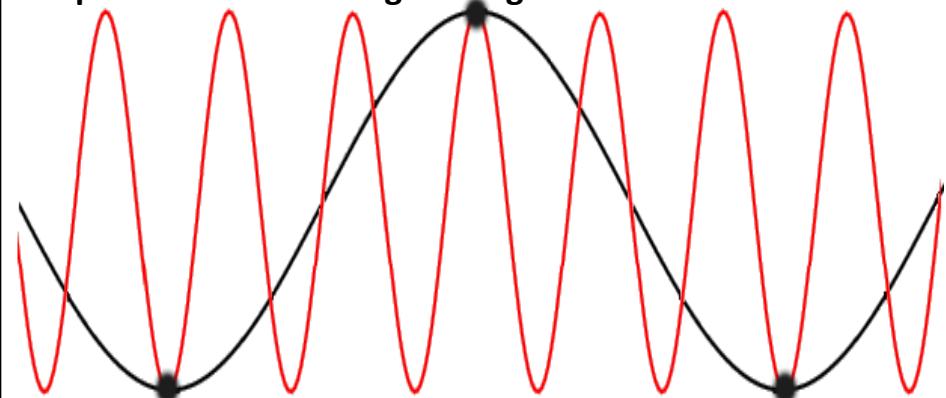


"Simplicity is the ultimate sophistication".
(Leonardo da Vinci)

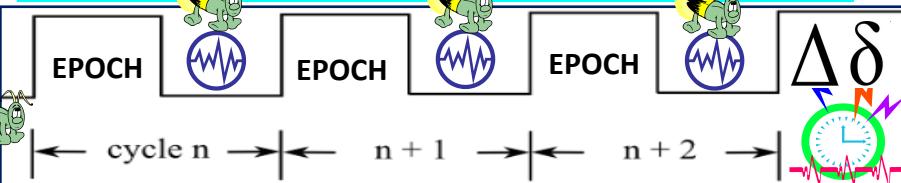
ACOUSTIC PHONON

USPTO 13/573,002

in-phase motion of neighboring ions in a lattice vibration

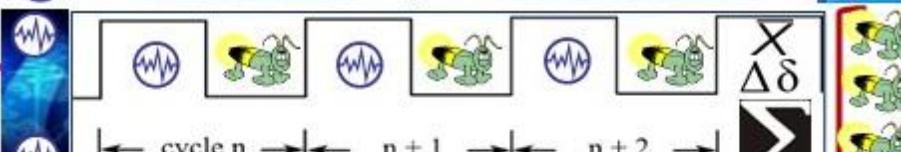
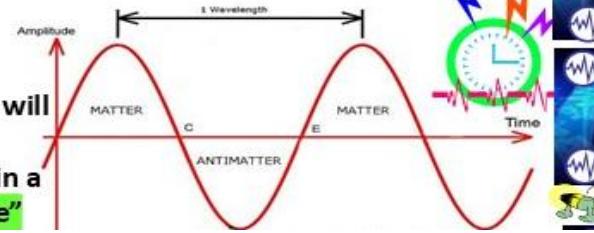


Phonons: A phonon is a quantum of the lattice vibration, the collective motion of atoms constituting a crystal. There are two types of phonons: optical and acoustic. The optical phonon has high-frequency oscillation in the THz range and the unit cell center of mass does not move. It undergoes a dipole 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"



FIREFLY - INSPIRED HEARTBEAT SYNCHRONIZATION ALGORITHM



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"





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
Focus	Outcomes of <i>past</i> events. Consensus on known facts.	Outcomes of <i>future</i> events. <i>Future</i> consensus on <i>knowable</i> facts.

3. A software protocol

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

Finance Thing	Interpretation	EVENT DERIVATIVE CORP = <Org_ID_1,2,3>
Bond (Debt)	“I, Paul Sztorc, owe \$20 to whoever is holding this bond certificate on 03/02/2015.”	
Stock (Equity)	“I, the CEO of SztorcCorp, owe 1/100 th of SztorcCorp’s profits to whoever is holding this stock certificate on 03/02/2015.”	
Binary Call Option	“I, Paul Sztorc, owe \$20 to whoever is holding this Option on 03/02/2015, <u>only if</u> the stock price of SztorcCorp is above 40 \$/share on that date.”	
...(others)...	...(others)...	...(others)...
Event Derivative	“I, Paul Sztorc, owe \$20 to whoever is holding this derivative on 12/01/2016, <u>only if</u> Hillary Clinton is elected US President in 2016. Otherwise I owe \$0.”	...(others)...

Protocol (Decentralized)	Centralized Non-Protocol
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.

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



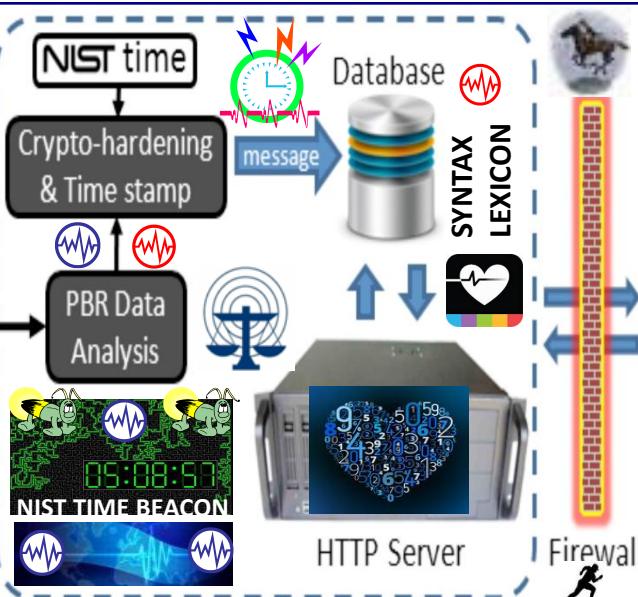
NIST QUANTUM ENCRYPTION RANDOMIZATION BEACON

UNPREDICTABLE SAMPLING

SECURE AUTHENTICATION

SECURE MULTI

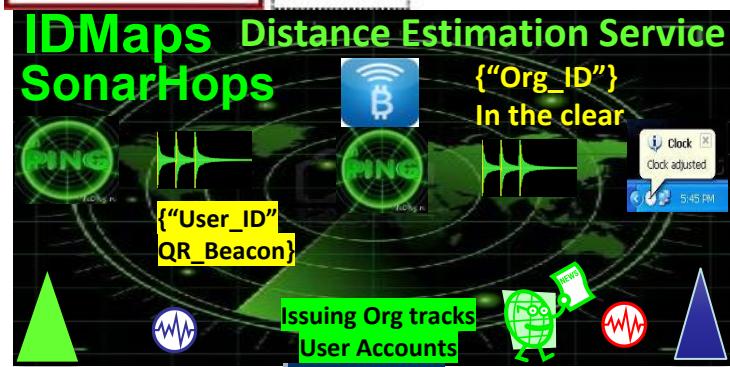
PARTY /
AUTHENTICATION



NIST

**NON
REPUDIATION**

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



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>
 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 of Internet & estimates distance between any IP address pair

State Snap Shots

Time / Distance Metrics

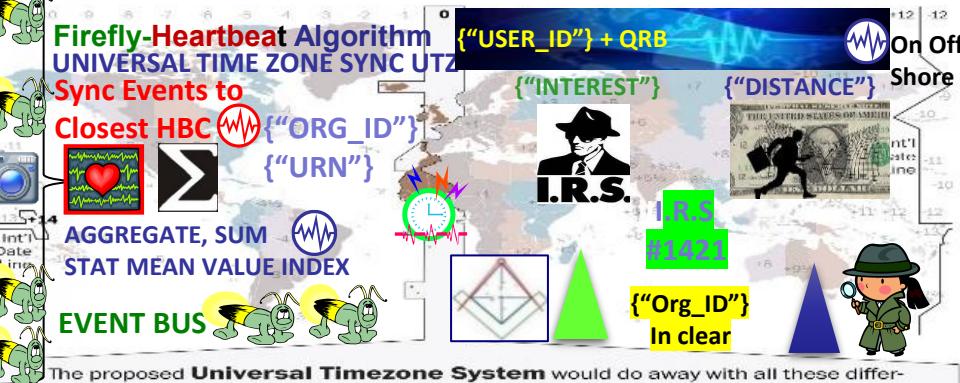


PROXIMITY

OFFSHORE BEACONS ONSHORE

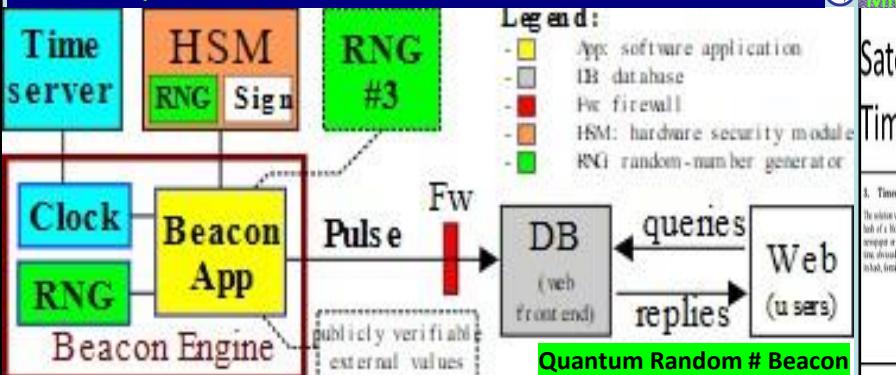
NDN
 </interest></distance>

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**



ALL THINGS NET FORMED WITH: Building Blocks:
 1) EPOCH TIME CYCLES
 2) SYNTAX / Opcode Brevity codes Programmable Economy / \$\$\$

NIST Quantum Random Number Beacon



"The external environment could update resources at random..."

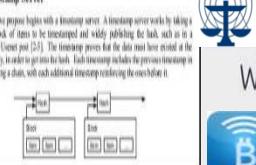


One solution is a **heartbeat**: defining a default lease duration delaying updates until the next cycle"



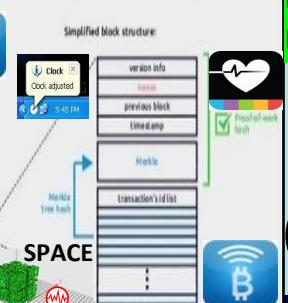
Satoshi Bitcoin Blockchain
Time Stamp Server

3. Timestamp Server



Epoch N
Epoch N+1

Block chain
What does a block look like?



WORLD ECONOMIC Heartbeat
ALGORITHMIC REGULATION HEARTBEAT SYNC DELTAS



PROOF of SPACE-TIME
Firefly - Heartbeat Sync Algorithm
Heartbeat Event Message Bus
UTZ stochastic harmonization

Epoch Time Cycles

E0 E1 E2 E3...

Genesis



Structured Data Exchange

ROSETTA

STONE

BREVITY

CODES

Attribute Series

Time Series

Value

Time

t₁ t₂ t₃

Geo

Spatial

300 +

Message Sets

Work flow

Filters

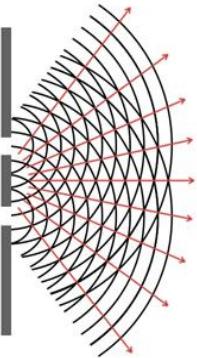
300 +

Double-Slit Experiment

Screen with two slits

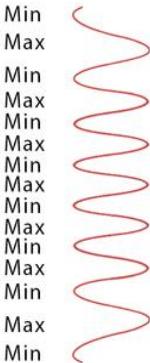
PARTICLE ?

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

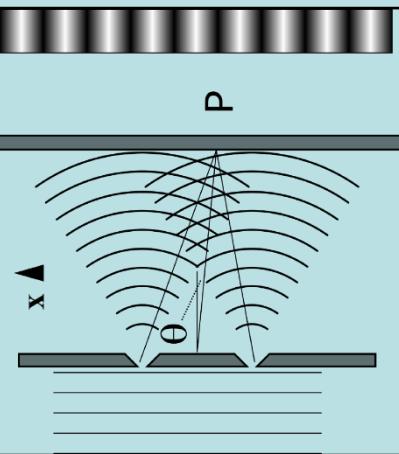
Alternating bright and dark fringes due to interference of light waves

Intensity of the fringes shows

the maxima and minima

Science Facts

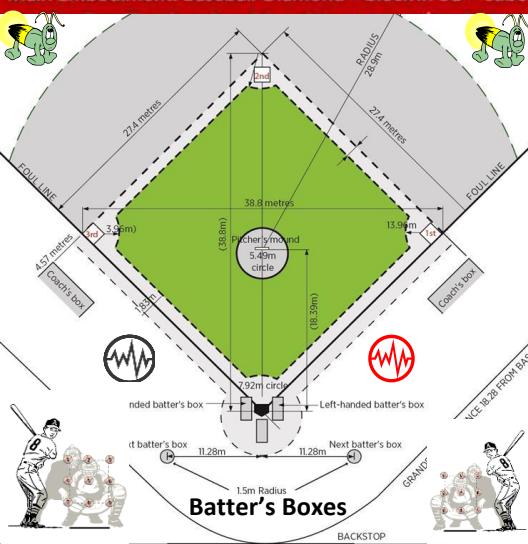
QUANTUM COMPUTING - RESISTANT ? - BASED ? THROUGH LENS OF SCOTUS ALICE LOOKING GLASS RULING



USPTO APPLICATION 13/573 002

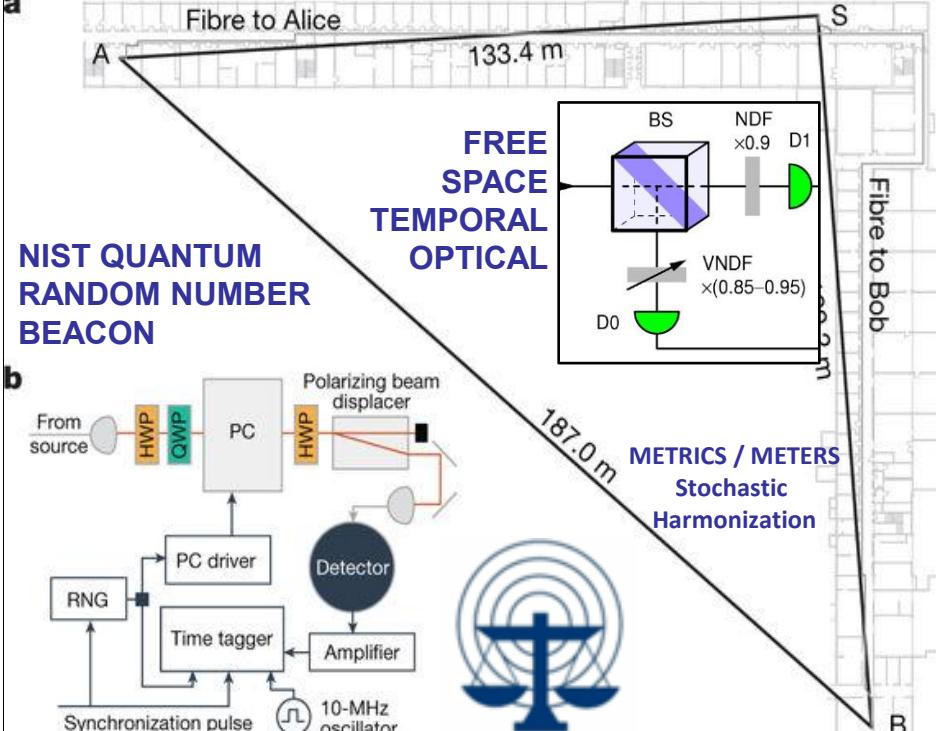
The Heart Beacon Cycle Time-Space Meter

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



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

a

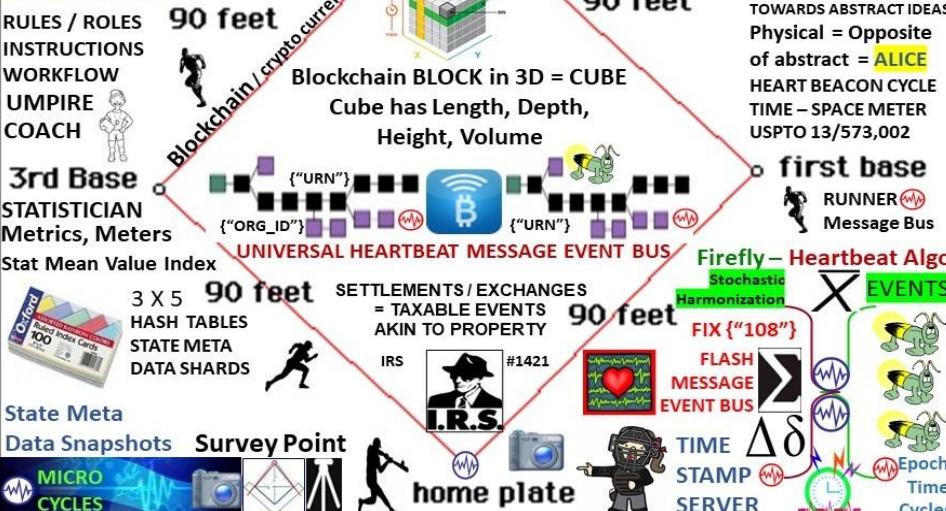


CLOCK FACE 360°
90 / 90 / 90 / 90



MACRO CYCLES

**RULES / ROLES
INSTRUCTIONS
WORKFLOW
UMPIRE
COACH**



The Hopf Fibration

Edmund Harriss

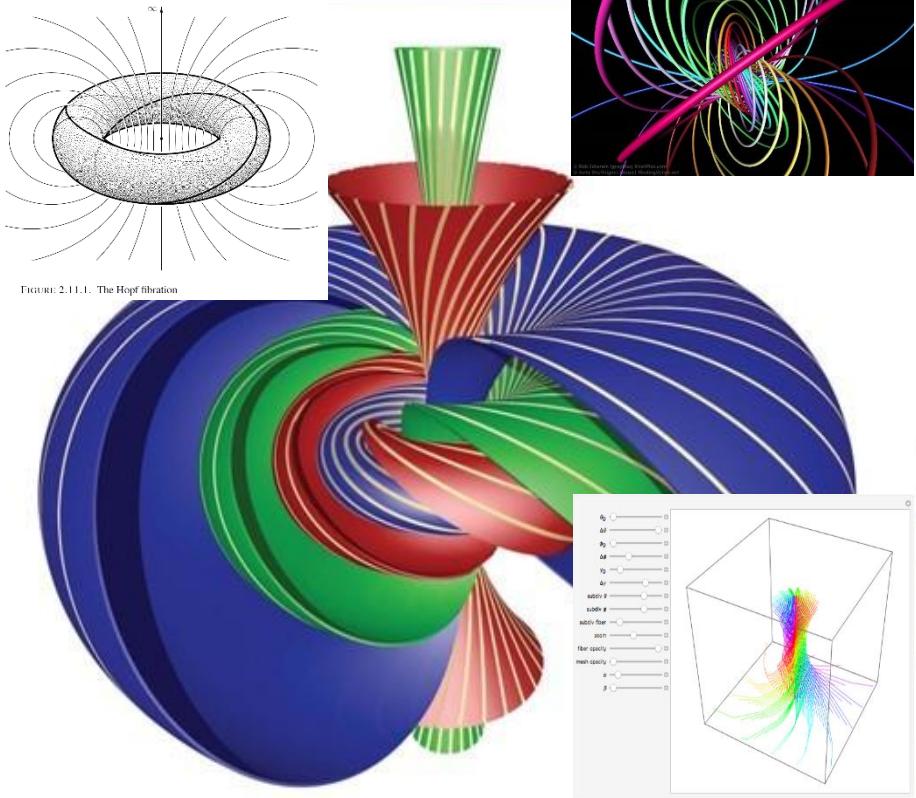
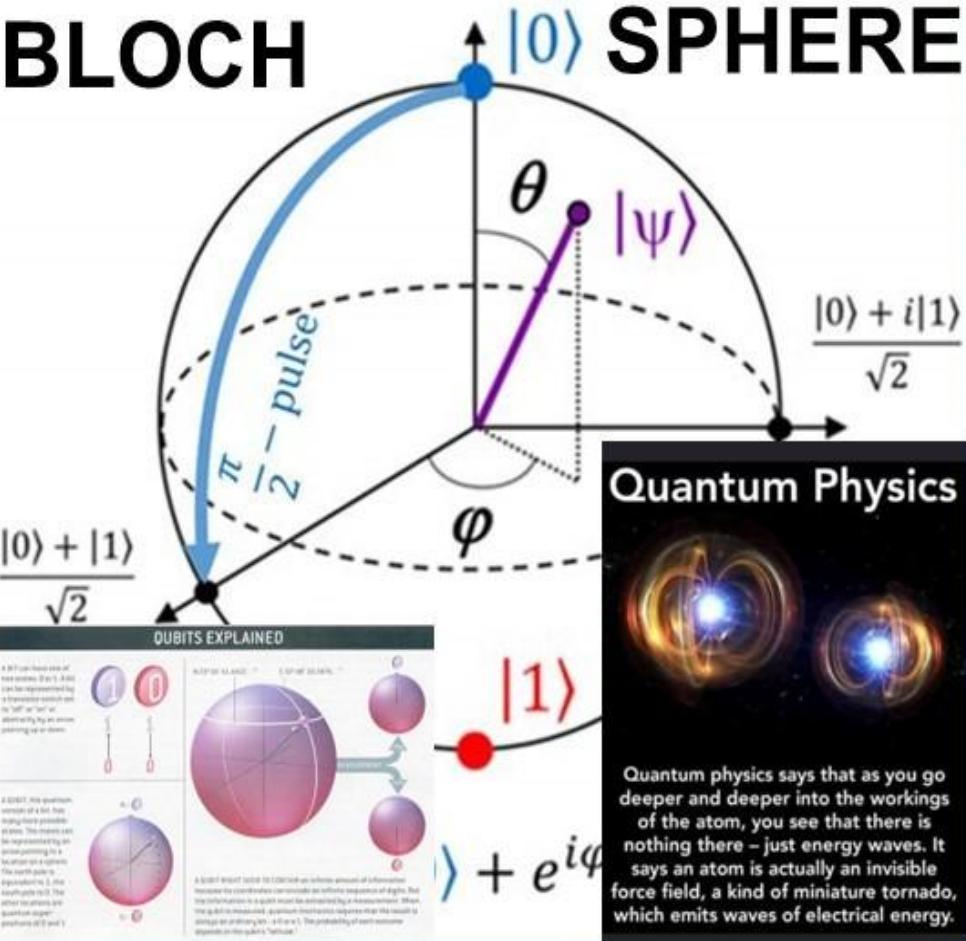


FIGURE 2.11.1. The Hopf fibration

BLOCH SPHERE



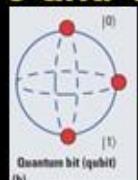
Hopf Fibration / #Bloch sphere

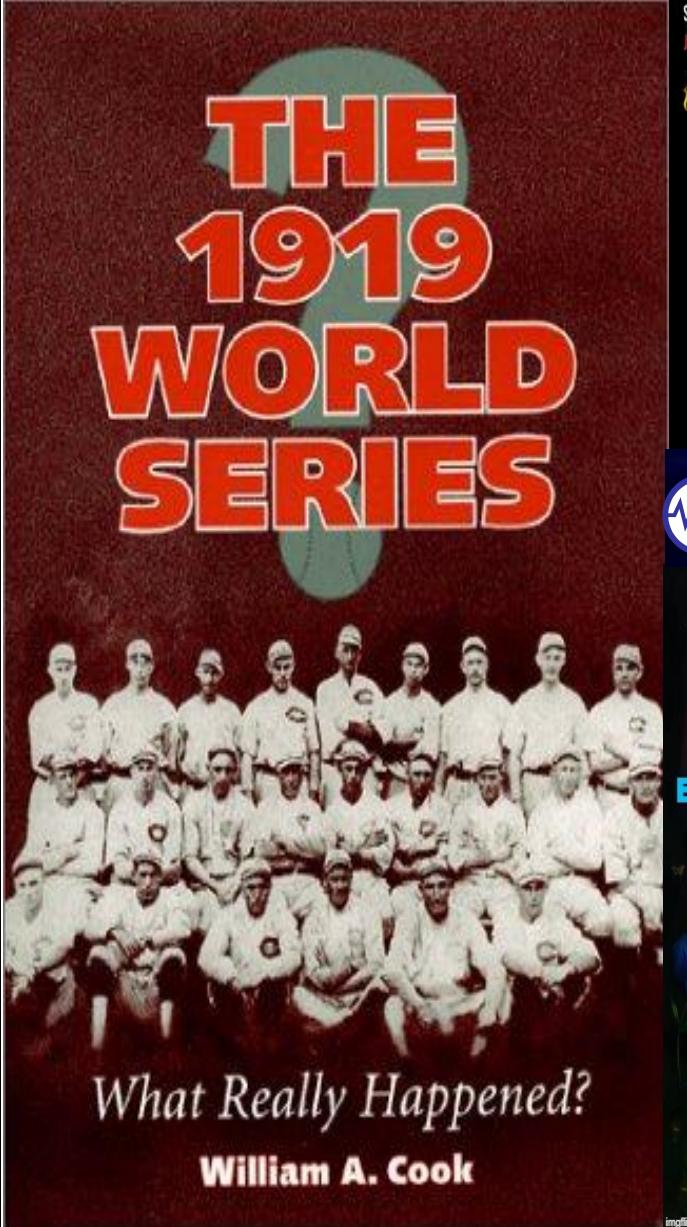
"the most important object in the universe"

"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.





Stop patent trolls.
Join The Alliance.

{Application Developers Alliance}



RULING: "claims may not direct towards abstract ideas"



TRANSCO VS PERFORMANCE



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

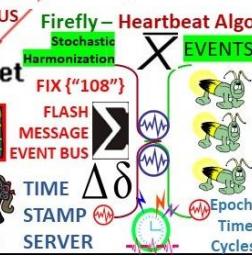
CLOCK FACE 360'
90 / 90 / 90 / 90
330 340 30 60
270 240 30 90
210 180 150

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



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

first base
RUNNER Message Bus



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

Blockchain / crypto/currency increments
Blockchain BLOCK in 3D = CUBE
Cube has Length, Depth, Height, Volume

SETTLEMENTS / EXCHANGES = TAXABLE EVENTS AKIN TO PROPERTY

IRS #1421

FLASH MESSAGE EVENT BUS

TIME STAMP SERVER

TIME Δδ Epoch Time Cycle



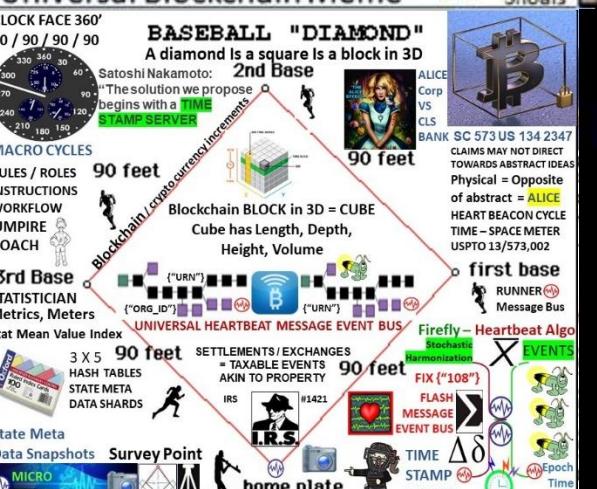
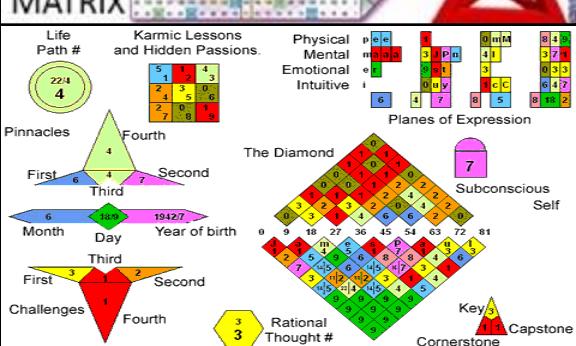
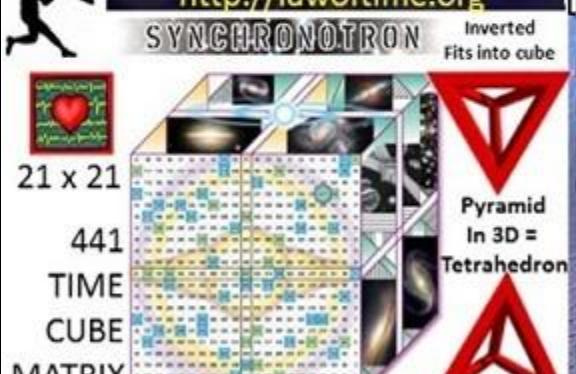
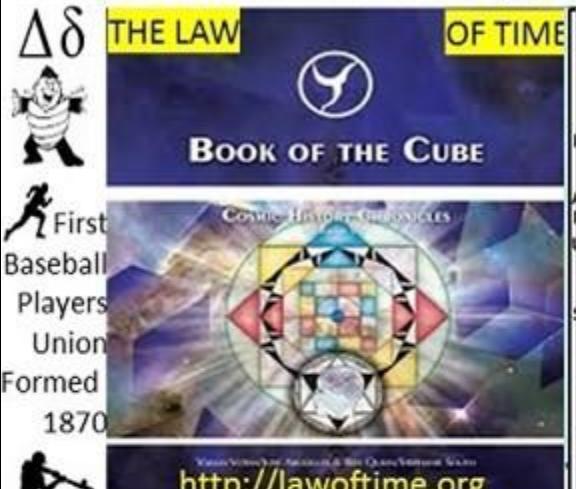
USPTO APPLICATION 13/573 002

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

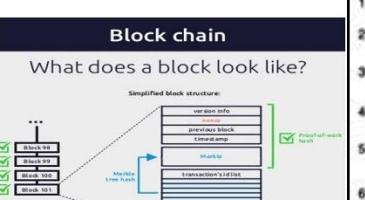
Timestamp Server

The solution we propose begins with a timestamp server. A timestamp server works by taking a block of data to be timestamped and widely publishing the hash, such as in the Internet or Usenet news [25]. The timestamp proves that the data did not exist outside at the time of publication. This timestamp can be used to verify the timestamping of a block of data, forming a chain, with each additional timestamp reinforcing the ones before it.



```

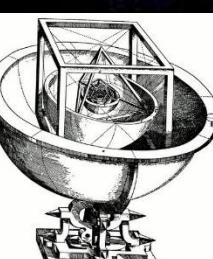
graph LR
    TS[Timestamp Server] --> B1[Block 1]
    TS --> B2[Block 2]
    B1 --> H1[Hash 1]
    B2 --> H2[Hash 2]
    H1 --> TS
    H2 --> TS
  
```



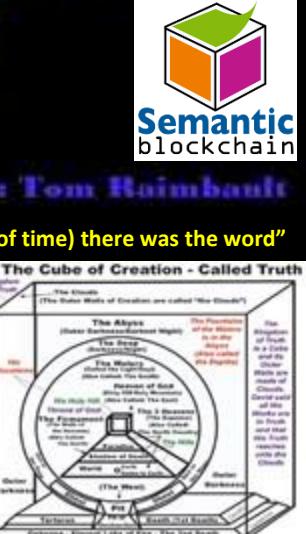
Metatron's Cube and the Platonic Solids



“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

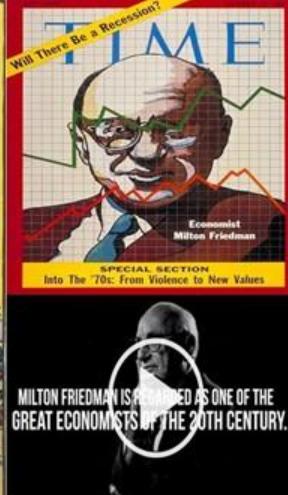
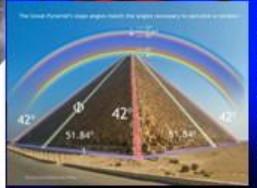


THE GREAT CONJUNCTION IN AQUARIUS

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



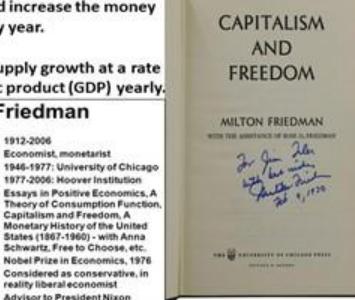
Milton Friedman — Preface to Capitalism & Freedom 1962

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.

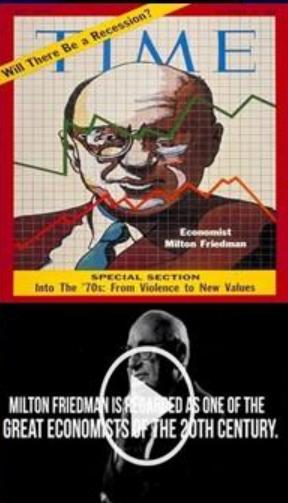
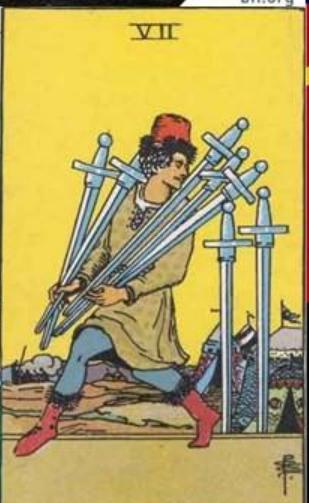
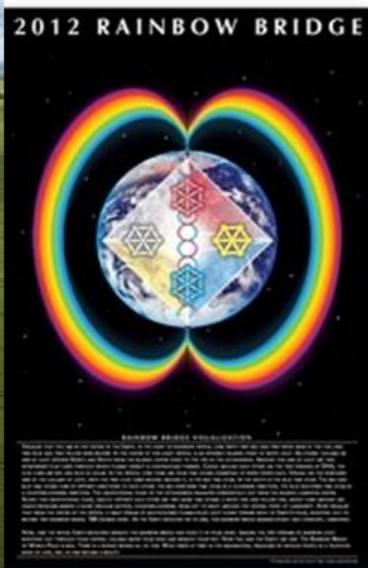
Milton Friedman

- 1912-2006
- Economist, monetarist
- 1946-1977: University of Chicago
- 1977-2006: Hoover Institution
- Essays on Positive Economics, A Theory of Consumption Function, Capitalism and Freedom, A Monetary History of the United States (1867-1960) - with Anna Schwartz, Price Theory, etc.
- Nobel Prize in Economics, 1976
- Considered as conservative, in reality liberal economist
- Advisor to President Nixon

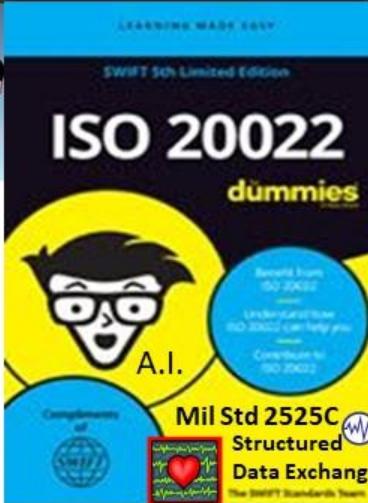
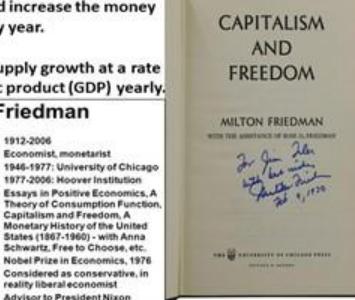


Forces of light on earth
shall overcome the forces
of darkness. Complete
spiritual enlightenment on
earth will occur.

~ Edgar Cayce



- 1912-2006
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- 1946-1977: University of Chicago
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- Nobel Prize in Economics, 1976
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The Age of Aquarius: Aquarius, Aquarius Rising @ 6:44 A.M. Feb 10th 1960

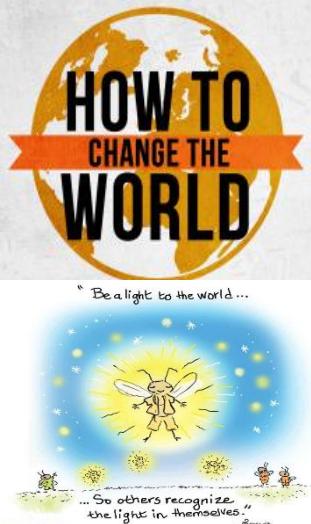
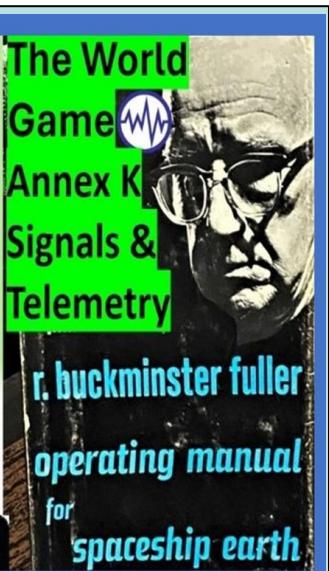
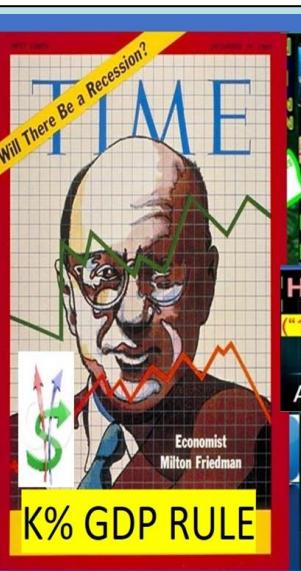
Buckminster Fuller "build a new model that makes the old model obsolete"

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

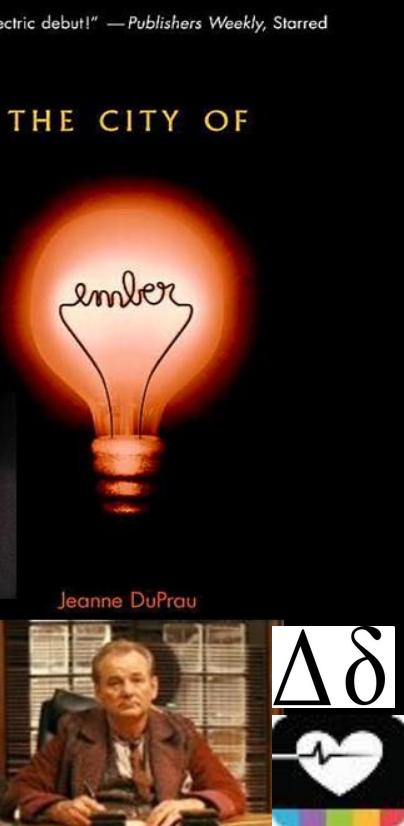
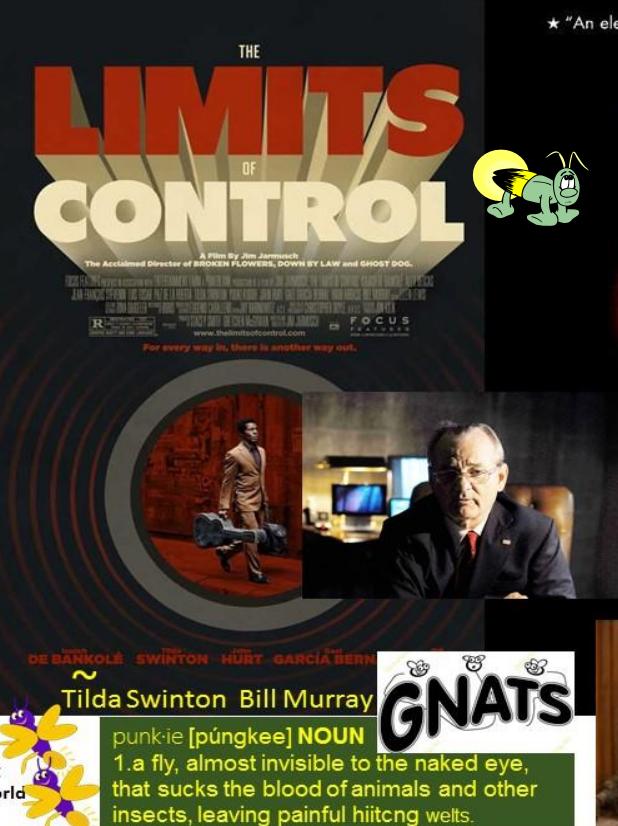
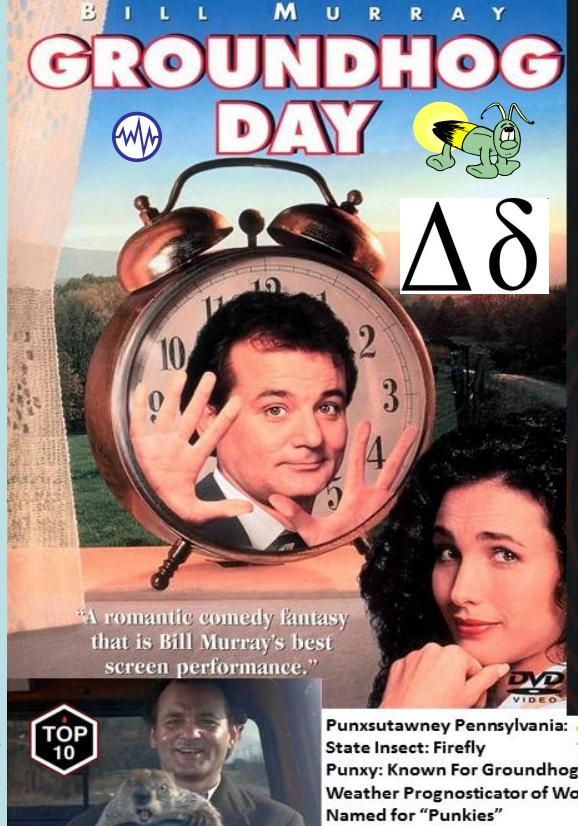
#algorithmic #stablecoin #buckminster #fuller #cryptocurrency #Milton #Friedman



DISNEY'S FANTASIA



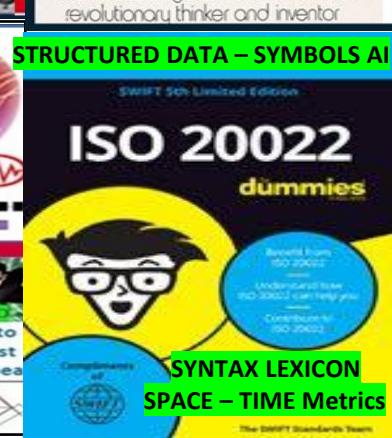
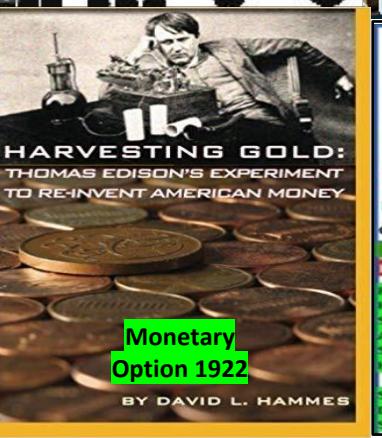
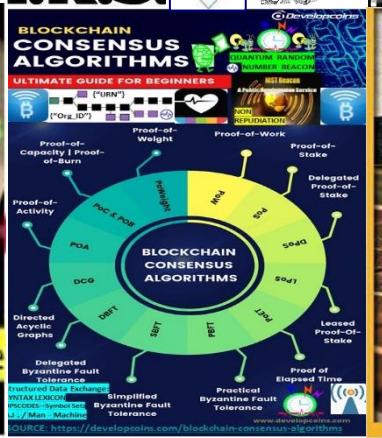
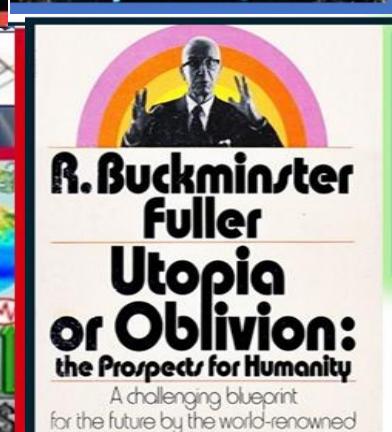
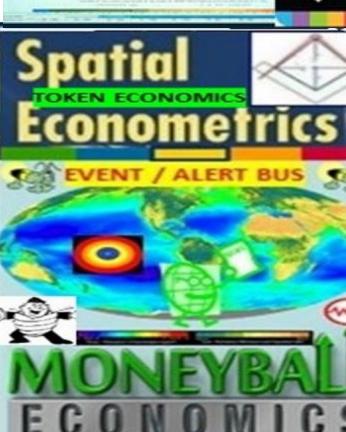
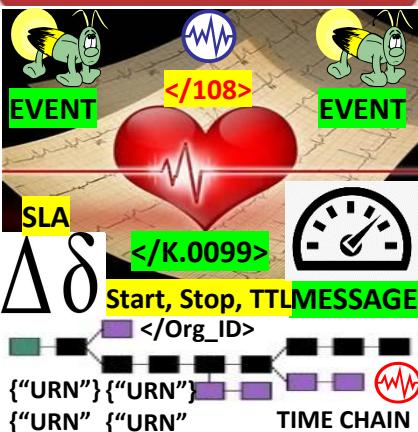
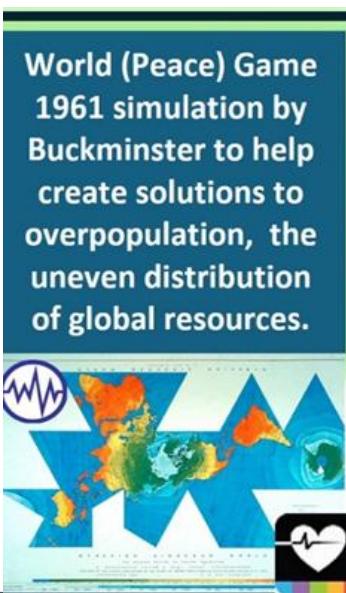
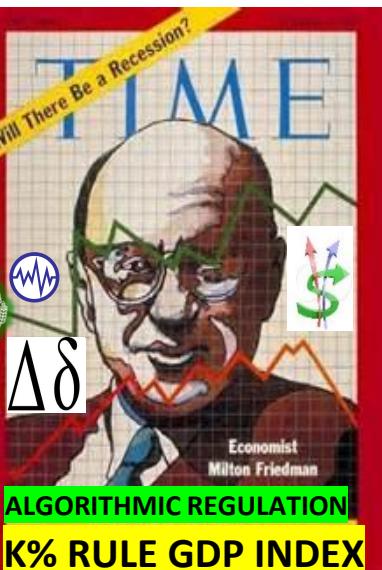
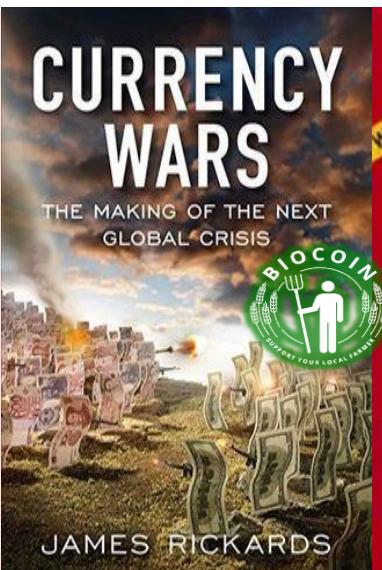
UNIVERSAL LAW
CAUSE / EFFECT
ACTION /
INACTION
IF / Then /
or.. ELSE



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.





R. Buckminster Fuller Utopia or Oblivion: the Prospects for Humanity

A challenging blueprint for the future by the world-renowned revolutionary thinker and inventor

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



What does your name mean?

Steven + McGee
Intellectual Revolutionary

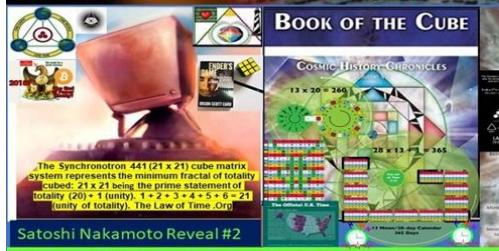
You have a sharp spirit paired with a strong will. You have the power to change the world with your intelligence!

Feb 10, 1960 Aquarius / Aquarius Rising

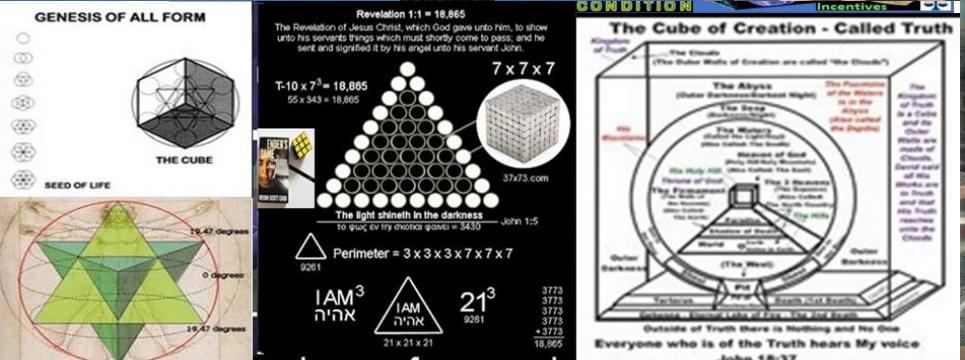
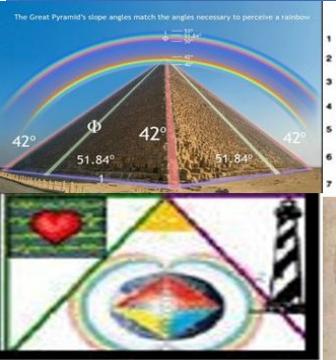
The Time Keeper
Borderlands 4

Alice Corp. v. CLS Bank International
573 U.S. 134
S. Ct. 2347
2014

"Claims may not direct towards abstract ideas"
Bloomberg Law:
Crypto Lawsuit Deluge
Has Big Firms Scrambling to Keep Up



Wayward Son





SIMPLE ALWAYS WINS... WHEN STANDING ON THE SHOULDERS OF GIANTS

