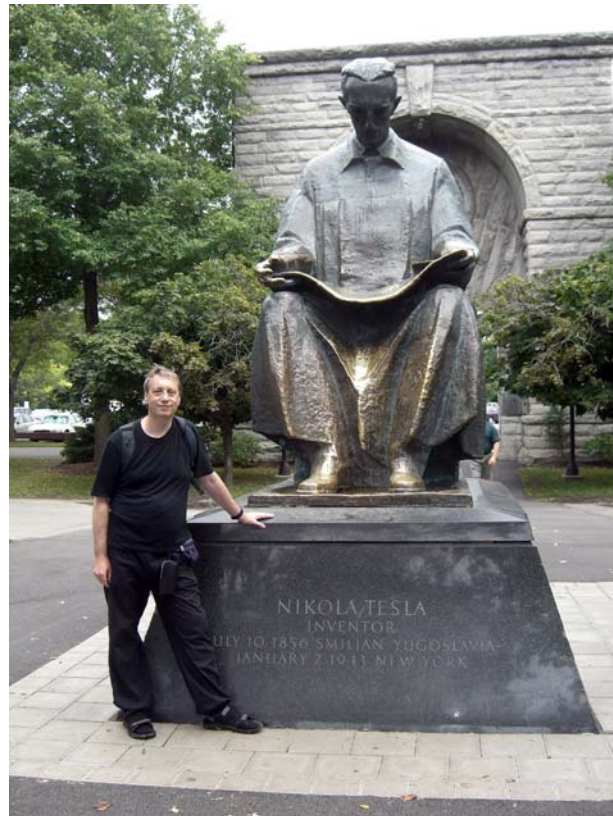


TRIPARTITE ESSENTIALISM

A GRAND UNIFYING THEORY

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AN INTRODUCTION TO TRIPARTITE RELATIVITY - TRE

Andrew Hennessey, born in Edinburgh, Scotland, began investigating relativity and holism in the late 1970's and by 1991 had formulated many of the concepts of Tripartite Essentialism or TRE.

Andrew draws parallels to Nikola Tesla's 'Theory of Environmental Energy' circa 1900 and also to the Logical Atomism of Bertrand Russell also circa 1900.

TRE is both a physical and metaphysical General Systems Theory that is based in Chaos Theory and flux, the natural order of the physical cosmos, and it is also a metaphysics that maps out logically every exchange within and between objects within this cosmic flux at all scales and magnitudes.

This metaphysics, rooted in Logical Atomism (Russell and Wittgenstein, circa 1910), is programmable.

1. THE PHYSICAL THEORY

The physical theory is aether-based and assumes absolute chaos and contends as in finger-prints, that universally in physical chaos no two objects are identical at any scale.

Similar objects belong to a classification of similar behaviours of similar objects with similar properties. The criteria for attributing an object to a set of similarly behaving but physically different objects is then socially agreed upon.

The physical theory of TRE – and its particle physics (Harmonic Continuum Theory) models a solution to the quantum paradox – the collapsing wave paradox.

It also predicts that there is no basic 'identical' building block or 'God particle' because objects in chaos and aether are infinitely divisible. We just don't have the scientific apparatus to look deep enough for smaller and smaller particle events.

Also the TRE physics predicts that there is no absolute 'Big Bang' and 'Big Crunch' and that because of the Chaos law of 'Emergence' there will be no 'heat death' because Emergence and its process of reconstruction counteracts the Entropy of the Second Law of Thermodynamics.

The physical theory also predicts that atoms and particles organically mutate and that free energy comes from the chaos law of 'emergence' as adjacent dimensions constantly push new harmonically structured turbulence events (sub-atomic particles) into this reality that then become constrained in size by local densities.

It predicted in 2003, now verified that black holes could create and eject new stars. Probably because adjacent connecting dimensions are

capable of chaotically altering the density of their aethers and thereby occasionally reversing their flow where they connect at the black hole.

It also predicts that time is a field-effect of mass and that it is equivalent to gravity. Further TRE predicts that time is non-linear, that the speed of light is not a constant, but a local phenomena, and that Planck's constant – the alleged fixed distance between shells in a particle is also only local behaviour and not universal.

Indeed TRE would assert that there are no universal constants, just locally mutating phenomena recognised to be within certain parameters with certain equipment in a certain time frame.

TRE particle theory has all particles from the smallest sub-atomic at all scales as constrained to produce internal structure and be guided in size by activity and pressure within the local cosmic aether.

At this moment in time in the 21st Century, there is every indication from published scientific results that there is a detailed and significant correlation between the physical theory of TRE and the TRE metaphysical process descriptions, and that as a general systems theory – the unity of physics and metaphysics proposed is not based on the arbitrary.

2. THE PROGRAMMABLE METAPHYSICS MODEL

With everything in the absolutely chaotic universe in a state of flux, the most basic, atomic and logical model of an exchange is between A and B through some common C with the intercession in natural chaos of at least some D.

The three dimensional universe of chaos and flux is absolutely comprised of such atomic and logical exchanges.

The Tripartite Essentialism, TRE, model of the physical universe attributes a series of limited (essentialist) numbers to events taking place between and within objects.

The essentialist TRE numbers themselves however are then further related to empirical measurements and Scientific units of measure that delineate the scale and activity of energies, transactions and events within the physical context of each object in flux.

A TRE number therefore has information both about the integrity of transactions and also about the physical scale, behaviour and nature of the context of the object it relates to.

TRE numbers on their own therefore are merely Boolean Arithmetic pertaining to a generic logical exchange ABC, but it is the addition of empirical data that creates the specific picture of an objects behaviour and performance.

There are only 8 logical ways to describe the integrity of an object or system involved in an ABC exchange at time 1, and at time 2 there are in

total 64 logical outcomes that depict the integrity of any ABC exchange, because the 8 versions at time 1 can be one from any other of the 8 at time 2. (8 times 8 = 64) This is Language [T]

By introducing natural chaos and modality into the exchange process, Language [A] there are then a total of 27 state descriptions that describe every possible variation of the integrity of an exchange between two objects ABC at time 1. This set of 27 state descriptions includes the 8 logically real ones of [T], at time 1, but adds a further set of 19 logical (transitional) modalities. Hence at time 2 in an ABCD exchange 27 times 27 produces 729 state descriptions of any exchange in the universe at time 2.

This limited and closed set of essentialist arithmetic with 729 (or also 64) components produces a finite number for infinity which enables advanced computation to circumvent the Halting Problem (Turing, Church).

The closed and limited set of essentialist numbers in TRE ie. (64 or 729) that enumerate every possible description of the integrity of an exchange between A and B through some common C, means that there is a finite measuring stick, a scale of relationships upon which to base intelligent computation.

A computational system utilising a TRE numbering strategy would overcome the Halting paradox which currently prevents functional Artificially Intelligent computing.

It is currently only AI computers that utilise an infinity of object labels that are favoured by public domain industry.

As these machines cannot process infinite possibilities they fail to find the significance of the endless labels they are processing and cannot resolve issues.

A TRE computer though is not working with an infinity of object labels but a finite and limited set of transactions within all objects – it has no halting problem. A TRE computer is working not with labels but with the elements of objects in the same way that the infinity of the physical cosmos and its endless diversity can be described by the finite number of elements in a periodic table of chemistry.

For every and any event therefore there is an ABC exchange with the intercession of some D. This logical fact is the most basic component of any exchange in the cosmos and we can say of any ABC(D) exchange that at any time¹, part A is integrated and contributing, or disintegrated and not contributing, or doing neither – basically 1 or 0 or A

The same for part B and part C of the ABC(D) exchange between two objects.

What part A, B and C refer to is decided by the observer who supplies the context and empirical values of the exchange being observed. There are many ways that any object or event could be described or observed in the universe in terms of the ABC exchanges it uses in both its internal and external structure, but it is the observer who gives context for event modelling and the physical criteria of the observations.

A logical programming language similar to PROLOG called HX Assembler was developed to enable computer modelling and mapping of the physical cosmos, objects and their environments, with TRE metaphysics.

This metaphysics and modelling can enable accurate data exchange between very different maps and hence solve a major problem in Artificial Intelligence. That is TRE provides 'isomorphism between domains' – a process that would enable an artificially intelligent machine to use analogies from other kinds of knowledge to solve unknowns in a different problem area.

This Tripartite model at the heart of every object at any scale in the cosmos was further developed into a general systems description that could be universally applied to every object.

This is called 6 Keys Systems Theory and with this basic atomic model, every object in the cosmos could be divided into nested zones and its intricacies modelled for computing purposes.

TRE although an R&D project does overcome the major paradoxes at the heart of Robotics; namely the 'Halting problem' (Turing, Church) and also Goedel's 'Logical numbering incompleteness paradox' TRE therefore in a fully developed state would be at the heart of a major industrial revolution in Information Technology.

For the purposes of computation there is a way to represent Knowledge about every Universal object in a Tripartite format of the kind;

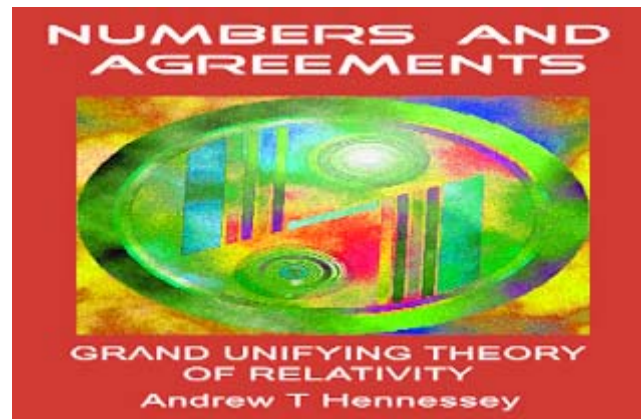
- 1. OBJECT, MACRO (Context measurements and ingredients)**
- 2. PROCESS, MESO (internal structure)**
- 3. QUALITY, MICRO (outcome or asset)**

By giving every object in our Knowledge Representation database three attributes like these we can start to create a scientific picture about the performance of objects for computation purposes.

This three part system also maps onto our use of natural language where; Object is a Noun, Process is a Verb and Quality is an Adjective. By using data gathering strategies like these it is possible to map and model with lots of non-TRE data which would ultimately boost TRE project outcomes.

TRE technology – based on its closed set of essentialist arithmetic could be the basis for a myriad of StarTrek technologies including; teleportation, scanning, long range cosmic travel, matter transmutation and executive robotics.

The fundamental assumptions of Tripartite Essentialism's Physical Cosmology - new technologies



Tripartite Essentialism is a general systems theory built upon a set of assumptions and is a description of a system of interactions of natural laws.

From the following assumptions about the state and behaviour of the natural universe which constitutes a new physical theory of relativity it becomes possible to map these physical exchanges by overlaying a programmable metaphysics

1. The universe is in a state of absolute chaos and flux in both the macrocosm and the microcosm.
2. Order emerges out of chaos. [fusion] a Natural Law
3. Chaos emerges out of order. [entropy and fission]
4. Energy and matter and component particles can be described by wave theory, turbulence and the standing waves or particles take on harmonic and octal attributes.
5. There are no fixed universal constants in the macrocosm.
6. There are no fixed identical particles just classes of particle events with similar properties
7. All energy and matter is in a state of transference from high energy to low energy across a common medium i.e. A to B through C with the minimal intercession of some D.
there are 8 logically real versions of the integrity of that transaction at time1 and 64 at time2, further there are 27 modal logic/transitional states at time1 and 729 at time2
8. This transference can be universally modelled by an inverse square power law.
9. Every material and ergonomic system and event is unique but can be classified according to similar properties.

- 10. a. General Systems Theory called Tripartite Essentialism models every transference event outwith considerations of scale.**
b. Complex systems and objects can be modelled as being comprised of many simple tripartite interactions.

11. Tripartite Essentialism labels every system in the Universe with 3 attributes:

- 1. Ingredients [macro]**
- 2. internal mechanics [meso]**
- 3. qualitative [micro]**

12. Every physical system has three components and each of the three components has 2 attributes.

- 1. Endogenous**
 - 2. Exogenous -**
and this produces a total of six inverse-square power laws inter-relationships with which to model every event in the material Universe.
- 13. Relativism and the power of analogy can strip away arbitrary labels and expose and model the physical exchanges and processes that characterise every system at every scale.**

14. A transfer of energy between two points or systems via a common intervening medium is a process called Osmosis. [a Universal state of affairs i.e. some A to some B through some common C]

15. The most basic and tautologically true of an infinite number of transfers of energy in the Cosmos of 3 dimensions of space and one of time is that between at least two systems.
e.g. Dr Plichta's model of Tripartite Relativity ISBN 1-86204-014-1, published 1997 demonstrates that 3'ness is an archetypal and a priori state with the mathematics of prime numbers, and demonstrates that Structure emerges and evolves out of mathematical chaos.

16. This one basic transfer within and between all objects through a common medium of exchange can be modelled by science in several ways.

a. Osmosis. i.e. The diffusion of a high concentration to an area of lower concentration through a semi-permeable membrane also as Fajan's Rules of atomic Chemistry applied to the migration of electrons.

b. As a metaphysically continuous extension of one system into another, where the second system 'Emerges' out of the potential created by the activity of the first. e.g. Morphogenetic Attractor [Langton C], Evolutionary Vacancy [Goodwin B] - as a Field in Psychology [Lewin K] and electricity [Ohm's Law, incorporating potential difference of energies as Voltage and resistance to the passage of energy from high to low potential.] and in Physical Chemistry, Fajans rules.

- c. The relationship between the two systems can be empirically modelled by an inverse square power law i.e. The more one system increases in magnitude, the more the effect of the other system diminishes in turn. This can be more attenuated and imprecise at increasingly larger scales of relativity of mass.
- d. A binary and tripartite arithmetic, can be used to model this transaction, where system A, system B and the common medium system C have a holistic relativity which can be represented as integrated or disintegrated in whole or part by 1's or 0's denoting on/off, extant/disabled [Boole G].
- e. At any time 1, there can be eight essential states of that Tripartite Relativity. These 'essences' or 'atomic state descriptions' at time 2 can be any of the other eight. The number of possibilities for changes of state is modelled by a closed set of 64.

17. From this metaphysics can be derived an Essentialist Arithmetic with an unusual concept of zero, for zero in this system always has substance in relation to some context (unlike the Frege definition of decimal numbers by an empty set)
i.e. There is no absolute zero, and infinity is always a finite essentialist number in a limited and closed set. (This makes intelligent computing possible because the universe can be mapped without recourse to an infinity of labels. (the Turing Halting Problem and also in Goedel's logical numbers) and domain maps of the universe made up from essentialist arithmetic and its TRE metaphysics maps without infinity are easily interchangeable - so that an AI is never stuck enumerating an infinity of labels.

18. The Cosmos and its energies are in a state of Chaos, and emerge systems that are ordered, but all energy and all matter and all time have the characteristics of Chaos - they are Non-Linear, both in the Macrocosm and the Microcosm. [Alexanders's Horned paradox in mathematical topology.] A Chaos, harmonic and Fluid dynamics paradigm

19. The properties of emergence modelled here, are Telic. i.e. end based and suggests that Emergence doesn't stop at causing system 2, but that successive systems emerge as part of an ongoing process.

20. Entropy and demergence are part of this dualistic process of Emergence, construction and destruction, but it is suggested [Langton and Kauffman in Levy S.] that this process of expansion and contraction occurs around a tendency to equilibrium e.g. the elements of Chemistry tend to transitional equilibrium states. These states may also be considered to be Complex states at the Edge of Chaos and the Edge of Structure and are self evolving and self-regulating.

21. There is a formal logic for the set of Essences producing various

important languages; [T], [HX], [A], [G], [Ga], some of these language e.g. the language [A] are modal and model transitional states within transactions. E.g. 27 universal transactions at time 1 and 729 at time 2

22. These are limited and closed sets of Logically Real 'atoms' that are event descriptions between time1 and time2. Their enumeration is called 'essential numbering'.

TRIPARTITE MODELLING STRATEGIES.

From a set of simple rules, and using the strong analogies generated, this holistic general systems theory paradigm proposes many sought after answers - a way of seeing relativity and function in a holistic and also logical way.

A Universal Ohm's Law (inverse power law) and biological osmosis provide the core model for all systems. All possess some bigger energy concentration donating to a lower energy concentration through the intermediary of common medium of relativity.

From within an umbrella of potential e.g. the potential difference between one site/event and another, energy passes or diffuses or discharges from a site of higher energy to one of lower energy and by that process creating the potential for another emergent system. We must first formally classify Tripartite Essentialism within the Philosophy of Science.

Tripartite Essentialism is based upon the field theory notion that there is a continuous relation between one system and another through a common medium. [An inverse square relationship] i.e. A to B through some common C.

There are 8 logically real versions of the integrity of that transaction at time1 and 64 at time2, further there are 27 modal logic/transitional states at time1 and 729 at time2 which model the more natural exchange of A to B through some common C with the intercession of some D.

The TRE metaphysics is based upon and maps the paradigm of observed chaotic behaviour in the cosmos.

This general systems theory therefore has natural chaos processes at its heart.

To add to this idea is the Chaos law of Emergence, where one more massive but less sophisticated system by its more massive scales of chaos(ether) in a higher energy state feeds into and - [emerges] another more sophisticated system in our time space.

This is accomplished by the transference of energy from the lesser evolved system to a site or niche of competition with another system in the same context.

The product of this transference of energy or discharge is some system or artefact that is said to have emerged or filled the vacancy created by evolution and competition.

In America at the Santa Fe Institute, the biological implications of this 'vacancy' were labelled as 'Morphogenetic Attractors'.

This discharge or current occurs through a medium which offers resistance. There are three broad types of discharge from high to low energy.

The 'electricity' of this discharge/transaction varies in the chaotic

physical cosmos in varying degrees of complexity and also in the metaphysics [T] as the 3 types of material complexity; where;

1. the alpha class i.e. idioms 1-3 convey energy as ether and photons,
2. the beta class i.e. idioms 4&5 where energy is bound up in and invested in mechanics of an organic nature and the 'electricity' of the discharge between two poles becomes invested in systems more teleologically sophisticated than a mere trail of electrons. e.g. water, ions and hydrocarbons etc.
3. The gamma class, idioms 6-8, employ the two previous types of 'Voltage' but also includes the additional teleological sophistication of energy being further abstracted and manipulated by types of social artefact or information meta systems.

Easily measured in a simple format - as electricity, this tripartite format is known and measured in more complex, compound and crystallised (telic) energy substrates and organised and self regulating aggregates of matter - e.g. in psychological systems, which are relatively abstract systems (in comparison with a copper wire), the discharge of motivation has been measured by Lewin [1925] - unconsciously using a Tripartite principle.

Kurt Lewin has developed this as a 'Field Theory in Psychology'.

The Importance of Analogy.

Osmosis via the exchanges of Ohms Law can be used as an analogous modelling strategy for transference at all levels of material complexity from the atomic rules of Fajan, the electronic rules of Ohm, to the psychological rules of Lewin which are all based on the inverse square power law.

Osmosis is a biological term used to describe the active transport of salts from an area of high concentration to an area of low concentration through a semi-permeable membrane.

The basic premise is that any system is a 'membrane' between two others. This Meso role identifies the membrane as the attenuating artefact C in the [T] transaction process. A to B through common C. The structure and mechanics of membrane C pass on the 'discharge' to the site of systemic competition.

Energy flowing into or being fed into the locus of components that comprise a Tripartite system finds a condition of impedance to its flow; where the original stream becomes transmuted or metabolised into those substances or effects which maintain the system's function, whether biological or physical.

Given a consistent, qualitative flow, the structure can specialise on the resources of its input to exploit systems ever more different and incongruous to the energy system from which it emerged. This factor is dependent on the stress imposed externally at the site of competition between this system and its context and the competing context into which the ergonomic 'discharge' is directed - for example in the story of

the prehistoric evolution of amphibians where the developing respiratory mechanism of the organism enabled the exploitation of new habitat and context on the shore - this adaptation, initially, may have often failed under the critical stress of lack of humidity and high temperature.

In using biological concepts as tools to interpret more general physical systems, it becomes easier to visualise Tripartite systems living in habitats, eating, metabolising and competing in a world readily accessible to the senses, and in this way, the energy that is being processed and competed for, may be more easily tracked in terms of a biological analogy through the very accessible concept of organic holism.

A system becomes a system when a group of components are used consistently to receive and process energy. If consistency develops, it is because there is a context or input that caters for the collective needs of this group of components.

In the macrocosm, e.g. in a fish, after feeding, the organs metabolise the input and distribute the metabolites to every part of the organisation and organism where they are used in the process of growth, competition or maintenance.

Speaking more abstractly; this structure and mechanics or, supporting mechanism or metabolism, is an energy-distribution infrastructure, as often seen in civilisation as it is at the super-physical level. [Smith A, 'An enquiry into the nature and causes of the Wealth of Nations, 1776] where fine tuning of a welfare (public interest) economics strategy with the systemization of economic and industrial benefits around the strategies of the open market allegedly produced a viable society. Industry and Society and Individuals who obtained the most benefit for the least cost allegedly would be 'selected for' in terms of a social and biological Darwinism. i.e.

A selection of the most efficient organisation. (as opposed to organism). In treating Civilisation as part of the set of Organic Holism, it too has a brick and mortar body powered by the metabolite of electricity obtained in the competitive jungle of Capitalism.

The context of a Civilisation is its minerals, resources and materials and the processing capacity of the system itself is dependent on the efficiency of emergent tools, artefacts, processes and information with which raw materials are exploited e.g. farming, mining, factory and processing technology.

The 'heart' of the nuclear reactor, pumps sustenance along the veins and arteries of its power cables, and cognisant ganglia of the stock exchanges allocate lines of trade and communication, where secondary Capital metabolites are shipped through the enormous organic system of the infrastructure in a quest for sustained growth and competition for available resources according to stimuli or Labour Market Intelligence.

As in a biological system, the technological system processes and reprocesses raw input through a chain of useful and cumulative effects, investing time, capital and utility in these metabolic products.

The evolutionary assets of a Civilisation are information based, where

the management and control of information leads through policy and science to the maximisation of output, for the minimum of input. Sustained growth and metabolism, a necessity in an entropic environment can only be maintained by the maximisation of inputs as a whole, and since the natural and universal power law is involved in the demographic and ergonomic cycles of growth and decay, the exponential demand on resources made by exponential consumption can only be maintained by correct and competitive scientific advance. At this level of complexity, the Osmosis analogy includes many more sets of artefacts, systems and formats into which the energy discharge of the context macro has been encoded.

Here are a few more examples of the 'Tripartite Relativity' paradigm. In TRE every object has three aspects

Three parts and a context.

i.e. Part1 - Context and Macro: CMacro, Part2 - Meso, Part3 - Micro. that use analogies to describe systems both in general terms but also in physical and empirical terms. These ideas use the biological 'osmosis' model to illustrate the transaction process between high energy objects and systems to low energy objects and systems.

Food, has as its context the Sun, which powers the green cycle whose Meso DNA and coding for systematic organism turns the available Carbon, Nitrogen and Phosphor in the Macro into the Micro asset of Carbohydrate Sugars and Oxygen needed to sustain the plants. This series of trophic and vegetational cycles produce a complex ecosystem and food web which becomes the macro that supplies components to another inhabitant, Man.

Man extracts for the benefits of the gastronomical structure and mechanics of Man, [his Meso] energy packets of variable quality and quantity.

His kitchen receptacle, when examined holistically with Tripartite Relativity has a macro or function that suits it for the context of the kitchen in design and purpose.

The size of the bowl, the energy facility of the umbrella that it provides to sustain its utility - the macro or utility for the conveyance of fruit is dependent on the Man's social context.

The Meso of the bowl is basically its components and structural constituents, e.g. molecular and crystalline integrity and tolerance etc, and the Micro of the bowl, basically, its evolutionary assets are its qualitative aspects e.g. if the purpose of the bowl was solely general utility, then plastic is an asset to enable continuity of function; if however, its quality is not selecting it to attain conditions of continual use e.g. porcelain bowl at a banquet may be more acceptable, then the Micro of the bowl is dependent on context conditions both qualitative and social and the amount of psychological pressure its system can 'bring to bear' or weather in the selection process.

The cupboard should, like the bowl, be seen in terms of the function that makes it a specific type of cupboard, and not necessarily seen in terms

of the energies of its manufacture.

The cupboard is the end product (Micro) of a Sawmill (Meso) that manufactures to differing qualities from forests (Macro).

The context of the cupboard per se would be its overall capacity to perform its container function of holding utensils e.g. bowl.

Its Meso would be its structural arrangements and partitioning and fittings and the evolutionary assets or qualitative aspects - Micro, would be the social and physical qualitative difference between Oak and MDF Hardboard, and the structural tolerances and aesthetic qualities of plastic and brass.

A record player has a Macro of electricity, capital and the context and function of an information transformer.

The Meso or structure and mechanics of the hardware, its choice of; materials; circuit boards, their relative component complexity and arrangements, and additional attenuations, options and facility would also have a qualitative aspect Micro, both in social status and end product of HiFi.

A Book or other Media process, has as its context its topic, and a Macro also determined by the available information and physical formats and ingredients of its social source. Its Meso, or structure and mechanics are the ideologies or idea formats that collate and relate and present and explain the general relativity of the social artefact or information tool to its social context.

Whereas the evolutionary asset of the book, its Micro, would be how effective and intelligent an ideological tool it was for the exploitation of the resources of the context to which its main premise was applied.

A lamppost has as its social context, the illumination of infrastructure for the purposes of efficient society etc, and as a Macro both the capital of taxation and the power of electricity and the facilitation of orderly social conduct, its Meso is the structure and components of the object itself, its concrete or metal, its wiring system and lighting components, and its qualitative aspects are mainly aesthetic in relation to how much light it provides, what colour, what morphology how socially designed, how high and the quality of both structure and function.

A Home has as its context the housing of a family unit for the purposes of labour maintenance within the context of the infrastructure - the family or Macro will maintain the input of capital, fuel, energies, supermarkets, reservoirs, petrol, and these will be utilised by the structure and mechanics of the social context, Meso, its market efficiency, its learning and reproductive and creative potential and the degree of intelligence and efficiency to be invested in and deployed in maintaining and sustaining the fabric and quality of the social environment.

The Qualitative aspects of home are related to capital input, class and other types of ideology of social fabric and aesthetic that enable evolution, expansion and successful stress free growth for the most benefit from the least cost. [Smith A, 1776]

The relativity of New Particle Physics can be demonstrated by an analogy with a musical instrument the body of which is comprised of

sub-atomic etheric particles from whose Chaos Emerges a note or Particle.

Now if this analogy holds, using our five senses, we can see the subatomic particles in the world of colours and vision and 'musical instruments', but we can only hear the Particle 'note' within the idiom of sound and because emergence is not a widely understood process, the causative link between the idiom of particle production and the particle itself could not be explained by a reductionist theory which decontextualised the particle from its reason for being. Which is why Particle Physics is today in disarray with umpteen paradoxes and anomalies like 26 mathematical dimensions to explain a superstring etc. This process of decontextualisation effectively removes a dimension or tier of relationships from rational thought because a monkey can be touched and verified and not the irrational metaphysical relationship between the monkey and the tree. Without Holism the study of the monkeys and particles is undecidable, for all the monkeys in the lab are lab monkeys, not forest monkeys in much the same way that all the particles in the particle zoo are lab particles out of the context of their natural habitat - natural relativity. What then is this canopy under which the particle zoo of bizarre hybrid particles flourish e.g. The basic laws of fluid dynamics can model energy as a fluid. It gets turbulent, the turbulence has peaks and troughs of intensity, areas of violent flux, and within this non homogenous mix, areas of calm and structure, the Strange Attractors that have become the temporary hybrid particles currently observed.

Much like the Gas Giant planet Jupiter has the characteristic Red Spot, the persistent - emerged from chaos - eye of a fluid storm, the basic and unique particles themselves exist by virtue of the storm in the aether of sub-atomic energies in the Cosmos, the flux of the Essences, and amidst this chaos emerge the calm islands or nodes which are the structural fruits of flux.

Philosophy of Science - notes

The synthesis upon 'a priori' fact in Tripartite Essentialism is a Phenomenological event in the world of labels, but the essential relativity of such events within the physical objects themselves belongs to a Logically Complete and closed set of relativistic functions - and those functions are responsible for the fact of the noun and its ingredients.

The epistemological status of Tripartite Relativity and its one basic field 'law' i.e. the inverse square law, that ties it into the operation of 'natural' and universal processes, comes from a continuous tautological relation between the components of the 3part system and their context: a discontinuous relation in this sense is a reductio, since it implies no relativity and hence no measurement or phenomenon. i.e. relativity is 'a priori' valid.

All materials generated by Tripartite Essentialist formalism belong to the one basic set of 64 atomic events which physically increment by gradual

64 transitions to the greatest level of structure at 64.

Tripartite Essentialism incorporates a field law, where a powers system is in continuous relation.

In metaphysics, to categorise Tripartite Essentialism with the three main classical types of individual metaphysical distinction, produces a bit of a quandry, for [TRE] embraces all three types.

The set of 64 Essential events and members are constituted Parmenidean individuals: changeless, permanent entities. The atomic stance that entails from this is that change can only come through their rearrangement.

The emergence of 'structures for nothing' from the Heraclitean 'fires' as it were is described by the generative theory of causality.

Where the cause is supposed to have the power to generate the effect and is connected to it.

Such cause in [TRE] has a natural law of emergence observable in a continuous field as an internal relation.

Whereas the succession theory of causality would hold that the phenomena observed are psychological synthesis, the 'a priori' element of the Tripartite atom creates a real connection between cause and effect and that this can be identified by a causal mechanism e.g. using Ohm's Law, a light bulb, and the application of a potential difference in energy relativity between the filament.

The Primary quality of Tripartite Essentialism [T] is energy transaction.

The ergonomic status of all systems, universally, is not fixed and is subject to arbitrary/chaotic change or the rearrangement of the sets of atoms and processes that comprise the system.

The phenomenon of change gives rise to the secondary qualities associated with the Primary quality of flux.

For example the primary quality of Ohms Law electricity generates the secondary quality of light and heat. In [T] the primary quality of the universal energy power law of mass generatesthe secondary quality of gravity and time.

The emergent properties of flux can be defined in terms of: the property of the whole being produced by the properties of the parts, and that these emergent holistic properties derive from the whole structure and its context..

REFERENCES:

Here is an illustration of 'No Fixed Constants' the end of an era of Albert Einsteins fixed speed of light at 'c' unfortunately an inconvenient truth no longer available.

<http://news.aol.co.uk/world-news/story/particle-moves-faster-than-light/1931571/?ncid=webmail1>

Here are some science resources on universal chaos;

http://www.ebook3000.com/Chaos-in-the-cosmos--The-stunning-complexity-of-the-universe_137092.html

Sprott has a gallery of natural fractals
<http://sprott.physics.wisc.edu/fractals.htm>

http://www.miqel.com/fractals_math_patterns/visual-math-natural-fractals.html

Peter plichtas tripartite theory of chemistry and mathematics
Some comments
<http://freakyphenomena.com/comment/33806>

<http://uts.edu/Journals/volume-i-1997/47-book-review-igods-secret-formula-decipherring-the-riddle-of-the-universe-and-the-prime-number-codei-by-peter-plichta-rockport-ma-element-books-1997.html>

in the last chapter of Gods Secret Formula Plichta points out the relationship between chemistry and form in the lower animals and invertebrates

the Fulfillment of the Logical Atomism paradigm

There is a substantial school of thought that can account for the reality behind my tripartite essentialist metaphysics - its called Logical Atomism.

Logical atomism is a philosophical belief that originated in the early 20th century with the development of analytic philosophy. Its principal exponents were the British philosopher Bertrand Russell, the early work of his Austrian-born pupil and colleague Ludwig Wittgenstein, and his German counterpart Rudolf Carnap. [wiki]

Logical Atomism is the philosophical theory of Bertrand Russell, the British philosopher (1872-1970), and the early Ludwig Wittgenstein, the Austrian-born British philosopher (1889-1951), which held that all meaningful expressions must be analysable into atomic elements which refer directly to atomic elements of the real world. [2]

Tripartite Essentialism fulfils the Logical Atomism paradigm and puts it squarely back on the Philosophy agenda for the 21st Century

The theory holds that the world consists of ultimate logical "facts" (or "atoms") that cannot be broken down any further. . Having originally propounded this stance in his Tractatus Logico-Philosophicus' In tripartite essentialism they depict as a logical atom a three part transaction description of the form A to B through a common C – and modally, with the possible intercession of at least some context D. Where A, B, C, D are valid /integral or invalid/disintegrated at time 1 and 2

In any three part system ABC there are the eight logically real trigrams, 64 at time2 and twenty seven modal logic (including decided and undecided state) trigrams at time1 and 729 at time2.

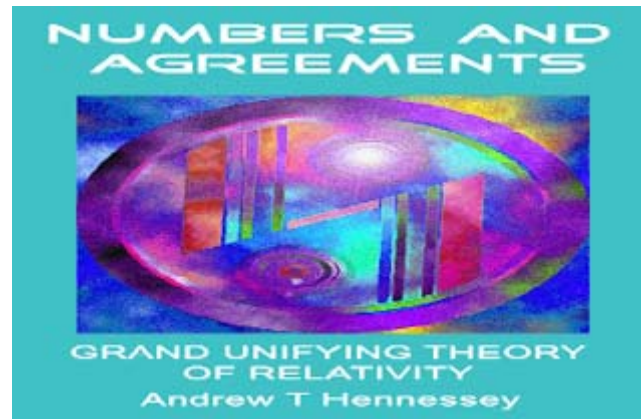
Ref.

2. Collins English Dictionary – Complete and Unabridged © HarperCollins Publishers 1991, 1994, 1998, 2000, 2003

My own contribution to the knowledge base of mankind has been around officially since 1991 and 2011 marked 20 years of it having been out there

Interstellar/Interdimensional Operating System

TRIPARTITE ESSENTIALISM



Computers need scales of reference and sets of data upon which to base their perspective and analysis, but the problem with the Halting problem is that the measuring stick to which they refer when making judgements is infinite.

These bigger more advanced quantum computers currently under development at Lockheed simply refer to more of infinity because they can process faster but they will still have the Halting problem because the way computers process knowledge addresses the labels that we give objects - and there is an infinity of labels.

My system called three part essentialism creates a yard stick of finite length with a finite (essentialist) number for infinity which means that any computer using the strategy of my TRE systems theory does not have the Halting problem. Every object in the universe is seen as having a limited and finite set of internal transactions.

The idea of these logical processes or 'atomic interactions' was first conceived of by Bertrand Russell and Wittgenstein in their 'Logical Atomism' in the early 1900's.

With my Tripartite Essentialism or TRE, I have added a logical and computable systems theory that has no concept of infinity or the Halting problem.

Another analogy with which to see what I am proposing is that the infinite universe is made up of an infinity of objects but that every object in the universe is made up out of a finite periodic table of chemistry

This section presents the basis of an operating system and computational platform which would potentially be at the heart of almost every gadget or device/ship you see on star trek.

The advanced semantics take the Turing (Halting) and Goedel problems of the infinite and endless recursion within computation and knowledge

representation.

Basically using the invented knowledge representation system and three part metaphysics, we take every transaction in infinity and assign it to one of a limited and closed series of logical Boolean transactions - and every noun, verb and adjective we have for anything can be so assigned. Then using the discovered naturally lawful 6 keys systems theory we build a model of each and every event - all events have 6 zones, within each zone we would create 6-part interacting components at various levels of detail by nesting a further 6 zones into 6 into 6 and etc until all the intrinsic detail of every interaction within the bigger event has a model.

Then we would use [HX] Assembler to model and manipulate the fine detail within these events.

This article comprises an introduction to tripartite essentialism.

Examples of how human activity and knowledge is made tripartite in format

A universal metaphysics for all such three-part exchanges

The language [HX] Assembler with which to model the fine detail and context of the exchanges.

An example of the language being used to model a biological event.

Twenty years ago I had developed a universal and unifying metaphysics based on natural laws and processes that were programmable and manipulable via a logic language I developed.

A folklore version of Tripartite Essentialism is taught as an irrationalist metaphysics degree by the Secret School of the Theosophical Society, although it requires a Hindu glossary to interpret. It is part of the occult body of work known only to a few, but is briefly referred to in the Theosophical Society's exoteric work by HP Blavatsky called The Secret Doctrine volume 1 in the notes on the emergence from chaos in; 'Logos, Outpouring and vehicles'.

Tripartite Essentialism as written today in 2013 remains as a body of domain independent notes that require a Philosophy of Science glossary to interpret.

Its products include a logical and programmable language resembling PROLOG called HX Assembler that also includes; emergence, transference and flux as inverse squared power laws.

An aether and chaos/emergence based particle physics that models a solution to the collapsing wave quantum paradox along the lines of Tesla's Theory of Environmental Energy.

It has also produced the alleged Holy Grail of Artificial intelligence in that it models and overcomes the infinite recursion in computation and logic noted by Turing and Goedel that prevent fully executive robotics and therefore enables Artificial General intelligence.

Tripartite Theory also rationally models teleportation using complete

and finite sets of essential processes to reproduce in infinite circumstances.

A scanning device was also conceptualised that would utilise data maps to borrow and exchange similar processes from different maps to fill in the unknowns. This alleged isomorphism between domains is another goal of Artificial Intelligence.

Before any of these alleged science fiction products could be had however, an initial expert system database with a reference system of empirical values for every object or class of object would have to be devised.

Major breakthroughs based on this one 'operating system' became possible, overcoming the major scientific paradoxes central to the human condition.

The metaphysics I called 'tripartite essentialism' made possible a broad spectrum of technologies and applications seen most often 'magically' working in programmes like 'Star Trek'. E.g.

Executive Robotics [Artificial General Intelligence]

Teleportation

Mind Machine Interfaces

Stargate Technology and Interdimensional Travel

Paradox-free Interstellar free energy engine

Medical diagnostic scanner

Space ships long range scanner with intelligent interpretation of any scenario

A Game Theory where 'somebody wins everything' e.g.

<http://www.youtube.com/watch?v=iCt3NKun2Eq>

At the heart of the metaphysics (called tripartite essentialism) is the essence of every transaction in the universe at all scales and magnitudes. There are eight models of the one and only one universal transaction of the form A to B through a common context C

ie.

Universally, logically, every transaction A to B through a common medium C can have eight and only eight forms of integrity at time 1
The story of Object A and how it functions is called 'functional relativity'
Also Object A makes a donation of surplus energy in a competitive environment/context. A is a developed and sophisticated object or process that is capable of emerging or losing surplus from its investments or internal works C and this surplus B is its assets/qualities at B.

Energy flowing from higher to lower down a gradient of exchange through its internal structures A to B through common C

0 0 0 0 1 1 1 1 A OBJECT High Frequency

0 0 1 1 0 0 1 1 C PROCESS

0 1 0 1 0 1 0 1 B QUALITY Low Frequency Surplus (Oogenic investment)

In any context for a physical event or process, the physical transaction can be modelled and categorised by its high frequency components that facilitate its low frequency qualities and assets e.g. its emerged assets/seeds/investments etc ie. the process emerges some fruit or crystalises product – it is Oogenic.

All physical transactions take the form ACB

In tripartite metaphysics every object and event can be mapped out in natural language as noun verb and adjective of the type object process and quality/asset.

The metaphysics of a universal three part exchange is given below – followed by the language [HX] Assembler which can be used to model the fine details and context within each exchange.

This relativity of threeness in all natural objects of any scale the universe over can represent the nature and function of every object/event/process. Each object/event having its central core, A its governing mechanics and infrastructure C and its assets and organelles B.

Further each of the three zones of any object of [1. core 2. mechanics & infrastructure and 3. evolutionary assets] may be further subdivided into 2 parts - that part of the zone which specialises in maintenance - its endogenous aspect and also that part of the zone that specialises in externally driving the other zones in context - its exogenous aspect. Therefore every object in the universe has 6 key aspects.

To model natural complexity, nested large scale detailed models of 3 zone objects within 3 zone objects within 3 zone objects can be drawn up to describe more complex 3 zone objects.

Every 3 zone object with 2 aspects of exogenous and endogenous per zone actually has 6 aspects and they are all directly related by a series of inverse square power law relationships. In effect each 3 zone object has 6 key aspects and this has been developed into a theory called 6 keys system theory.

Every object, event, process, phenomenon the universe over at any and all scales has 6 key aspects.

This fact coupled with an object frequency database that ties every and all exchanges of energy (empirical values) to their category or domain of objects enables the ‘Star Trek’ applications listed above.

The development of this database is central and key to all the innovations.

Also with a limited and closed series of transactions (ACB) that can describe the processes within absolutely every event in the universe at all scales - this finite number of events produces (in context) a series of finite numbers for infinity.

Because the infinite and unknown is tamed both in energy equations and artificial consciousness by finite reference points then such things as teleportation devices like stargates would have no problem with re-assembling complex objects and people and no artificial intelligence would ever be stuck for an answer or analysis of the unknown. All of such things are enabled by this finite logical series called 'essentialist arithmetic'.

KNOWLEDGE REPRESENTATION

Here are three developed examples of the TRE Knowledge Representation System being used to classify and map events in the world.

These examples turn social activity into the paradigm of tripartite transactions and Boolean logic via the tripartite essentialism metaphysics

There follows 3 examples [2.1 – 2.3] of the knowledge representation system.

This universal knowledge representation system [KRS] can take any idiom comprised of; nouns, verbs and adjectives as; objects, processes and qualities.

This [KRS] can be used to describe events at any scale and magnitude whether atomic or cosmic.

This set of examples uses small business and their activity classified with this 3 part semantic system and its aspects called; [object/noun] Macro, [process/verb] Meso, [quality/adjective] Micro.

2.1. Arts - Music and Multi-Media

2.2 Industrial Manufacturing - Light Engineering

2.3 Service - Insurance

MACRO. THE PHYSICAL/ATOMIC COMPONENTS OF THESE BUSINESSES ARE AS FOLLOWS.

e.g. 2.1.- MACRO/OBJECT. fiddle, harp, keyboards, studio recording components, sound mixing facility, strings, CD/Tape duplicator, Minidisk, P.A. System, Transport, music stand, instrument case, tuner, lights, lighting desk, compressor, pre-amp, effects processor, microphones, stands, computer, software, peripherals etc.

e.g. 2.2 – MACRO/OBJECT. lathe, metals, cutter, sweeper, shop floor clothing, gear and boots, tools, bench, drill, workshop, first aid box, lighting, storeroom, drawing/stencil board and printer, oxy-acetylene torch, arc, welding gear, trolleys, coolant, polisher/buffer, chemical solutions etc.

e.g. 2.3 – MACRO/OBJECT. car, clothing, suit, PC, mobile phone, hard copy filing system, stationary, photocopier, Office, computer and network peripherals, petrol, audio-visual presentation kit, overhead projector, whiteboard, laptop and modem, office furniture, briefcase, clients, customers, leaflets, potential customers etc.

MESO. THE PRODUCT & MEDIA/PROCESSES AND INFRASTRUCTURE OF THESE BUSINESS 'SYSTEMS'/OBJECTS ARE AS FOLLOWS.

e.g. 2.1 MESO/PROCESS/INFRASTRUCTURE. - albums Celtic, albums rock, albums dance, albums story, multimedia books on CD on mysticism, hard copy tune books, logic audio recording software, concerts, performance and events supplied and tours done by company bands, new midi instruments invented, ambient and meditational video and audio's, technical papers on new musical theories, interactive CD-ROM and multi-media package on Philosophy for Children, secure website for sale of soundfiles and other product.

e.g. 2.2 MESO/ PROCESS/INFRASTRUCTURE. - oil rig parts, ship parts, motor parts, alloy parts to industrial specifications, hard alloy, soft alloy parts, thermophilic alloy, civil infrastructure components turned by spec to order, trawler maintenance, car and lorry structural repair, ad hoc building and roof components designed and manufactured by consultation.

e.g. 2.3 MESO/ PROCESS/INFRASTRUCTURE. - domestic surveys, commercial property surveys, domestic and commercial policies, PEP's, Equity Investment, stock brokerage, actuary and risk assessment, bank and investment portfolios, building society and investment house policies and procedure, capital returns for business and client, Leaflets and advertising packages - multi-media, TV, radio, cinema, etc

MICRO. QUALITATIVE ASPECTS OF THESE PROCESS DESCRIPTIONS

e.g. 2.1 MICRO/QUALITY. - Original music/ various and diverse idioms, original story, cutting edge web site, diverse - one stop catalogue, secure for E-commerce and credit card transactions, high quality international & high tech delivery company used

e.g. 2.2 MICRO/QUALITY. - parts to order, small runs - fast turnaround, good service and maintenance backup, high skill level, One-Off's, diverse projects, great experience

e.g. 2.3 MICRO/QUALITY. - proven track record on investment/stock portfolio, good payout and premium record, speedy and efficient

processing of clients needs.

The Metalanguage [T]

For complex concepts to be translated into a one and zero Boolean three-part ABC system there needs to be a general and universal description that can be applied to all the states of integrity of ABC.

There follows eight process descriptions for the eight tripartite 'Boolean atoms' /transaction models of the language [T]. These form the basis of a metaphysics for universal exchanges at all scales.

These metaphysical descriptions are the large scale process models for every transaction – and the language [HX]Assembler given afterwards can be used to model the fine detail of the exchanges.

1. MACRO = 0, MESO = 0, MICRO = 0.

In the system, all is in flux and there is no relativity or congruence between the context, the object and its activities. There is currently no contextual environment for the development, redevelopment or continuation of any system and the qualitative aspects of evolution within this dissonance have no emergent aspect that can be measured at this time according to current empirical process.

2. MACRO = 0, MESO = 0, MICRO = 1.

The limited integrity of the past has had the qualitative capacity to emerge an asset, the Micro, but at this time now, (presently at timeX), the system has no systemic integrity. The emerged asset, though, having persisted from a previous time interlude is currently of high quality and integrity.

3. MACRO = 0, MESO = 1, MICRO = 0.

The lack of supply of systemic precursors caused by the discontinuity within the context has had no detrimental effect at this time, timeX, on the integrity of the persistent systemic mechanics. The facilitation of systemic growth, though, by the Meso, has ceased because of this lapse in the supply of precursors to the systemic mechanism and therefore no new assets and tools have been produced for the evolution of the system.

4. MACRO = 0, MESO = 1, MICRO = 1.

The lack of systemic equilibrium and integrity due to the collapse of the precursor supply to the equilibrium from the aggregates of the context has not interrupted the integrity or persistence of the mechanical attributes within the system at timeX as it continues to emerge asset.

5. MACRO = 1, MESO = 0, MICRO = 0.

At timeX, the present, an integrated supply of systemic precursors has emerged as an event, the Macro, but has no telic properties at timeX such that any new mechanical attributes have organised or have had such time that would have produced a qualitative asset as per conditions of observation.

6. MACRO = 1, MESO = 0, MICRO = 1.

At timeX, the present, an integrated supply of systemic precursors [Macro], have emerged a qualitative event [Micro] - though the mechanics that supplied it were transparent to observation.

7. MACRO = 1, MESO = 1, MICRO = 0.

At timeX, the present, the contextual supply of systemic precursors to the emergent mechanics of the Meso and its self-regulating equilibrium is of insufficient gradient, velocity and content to produce a measurable qualitative asset of any integrity under the assumed contextual conditions.

8. MACRO = 1, MESO = 1, MICRO = 1.

At timeX, the present, a fully emergent, self-regulating system, producing assets of measurable qualities through viable mechanical integrity is observed to conform to the criteria of judgements imposed by the observations and criteria of systemic success.

The eight descriptors, the eight tripartite atoms of the language [T] at time1, describe an event deltaT at time2, producing a set of 64 logically real essential numbers that are unique state descriptions fully describing every change of systemic integrity at time1 and time2.

The one rule of assumption that drives this set of rules of derivation is that in all (universal) cases, a larger system of aggregates, universally and autonomically contributes to a smaller system through a common medium with also the intercession of at least a common other.

Having a general/universal picture of how ABC relates and integrates and disintegrates is important but there also needs to be a more specific language with which to describe universal events.

THE LANGUAGE [HX].

INTRODUCTION: These operands are the keys to every natural process in every system. They can be platformed on e.g. C++, PROLOG, and even MIDI programming as list structures, velocity and decay form a vital part of field theory and empiricism or within Dc electrical engineering applications such as ORCAD.

Characters include the Operands of Sentential and Predicate Calculus – the Languages [L] and [P], TheTripartite Languages [T], and [A] and symbols from the Microsoft Western Keyboard Fontset.

01. Unconditional Declarations e.g. If M then P1 where M and P and 1 are the alphanumeric Microsoft Western fontset utilising previously known data and previously agreed rules.
02. £ If M then not Q where not is £. i.e., £Q is not Q
03. >> if M, then it always follows that P1 is predicated, i.e. M >> P1.
04. >= greater than or equal to
05. > greater than
06. <> allegedly not relative [an 'a priori' false premise]
07. <= less than or equal to 08. < less than 09. V or 10. IF if (always means IF and only IF) 11. + and 12. (the start of a list of a cluster of arbitrarily labeled processes that have been measured and agreed to be part of a closely interacting system that is an IPO Box. 13.) the end of a list of a cluster of arbitrarily labeled processes that have been measured and agreed to be a part of a closely interacting system that is an IPO Box. 14. @ All, the universal – absolutely all. 15. # some of 16. = equals – is equivalent to 17. & change in e.g. context or time delta t (time 1 ... time 2) 18. [X] square brackets enclose an acronym for a previously defined idea. 19. The set of Real numbers (1,2,3,4,5,.....n) 20. The English language letters upper and lower case consisting of (a,b,c,d, ...z + A,B,C,D, Z) such that every letter can be considered to be a process called an IPO box and further instantiated with further IPO boxes if necessary. [Microsoft Western 'System OS fontset.'] 21. \$ is directly proportional to. 22. \$\$ is inversely proportional to. 23. % is a member of the set X e.g. red (R) % X, where X = colours R % X = R is a member of the set of X 24. +? positive transference gradient for specified system e.g. M, at time1, +?(M) such that large amounts of M will flow down a relative and common structural bridge to lower amounts of M in the system context. 25. -? negative transference gradient for specified system e.g. P at time1, -?(M) such that changing conditions at time2 have temporarily overwhelmed system activity rendering system bridging activity and feeding input inactive. 26. ? a condition for some transference opportunity that may emerge at an unspecified time, x. because of chaotic context behaviour. 27. ^ a specific temporal qualitative assumption for modeling that specifies at any given time the prevalent and highest values of atomic concentration within the current activity set. It is needed as well as ? because of the interplay and exchange of similar aggregates within the modeling of the

object AND the context. It will denote and identify the potential for component relativity - either in the modeling of the object or its context. The material fact of physical and chemical intercession between similars absolutely always exists such that there is always a highest concentration of similar aggregate made relative to the lowest concentration of similar aggregate at a given time because of this intercession. i.e. $\wedge Z \gg ?Z$, the conditions for relativity 'a priori' exist though may not at this time be active.
(with a social agreement on what is 'similar')

In holistic modeling, the Object and the Context have differing concentrations and differing priorities for the same compound. Thus by identifying where the highest concentrations are within the model - the relativity of exchange can be more easily tracked.

28. $\sim 1X$ where ~ 1 identifies the macro ingredient X
29. $\sim 2X$ where ~ 2 identifies the meso ingredient X
30. $\sim 3X$ where ~ 3 identifies the micro ingredient X
31. [eT 01.. 64] or [eA 001.. 729] are essential numbers e for [T] and [A].
32. t1, t2, t3, . etc where t = states relative interludes of observation.
33. * where $\sim 1X^*$ and $\sim 2X^*$ identifies the same X in 2 etc. in continual contexts of e.g. object, environment, transference etc.
34. !X where transference velocity can be; !3 macro, !2 meso, !1 micro.
35. X where conditions of over-sufficiency are being met for the emergence of a new copy or asset of X.
36. the feeding gradient [$@f$] for systemic (object) growth. [$@g$] i.e. [$@f$] \$ [$@g$] = [+?], a directly related persistent field.
37. the Macro toll gradient. [$@t$], energy for context selfdefence. [$@d$] i.e. [$@t$] \$ [$@d$] = [+?], a directly related persistent field.
38. the system feeding gradient [$@f$] and the macro toll gradient [$@t$], however, are inversely proportional and directly competitive to the point of mutual exclusion. i.e. [$@f$] \$\$ [$@t$] = [+?]. (inverse power law).
39. English separators for associative listing 1. the comma (,) and 2. the fullstop (.) as end of list.
40. English semi-colon (;) allows for an antecedent bracketed listing of arbitrary labels from social processes in various object and domain libraries.
41. English inverted commas (" X) signify degrees of structural complexity - where "1 is simple, "2 is medial, and "3 is highly complex.
42. ::= Over-sufficiency, such that (+?X), a positive transference gradient for the feeding of system X is of such persistent abundance as to facilitate the emergence of

replication or higher degrees of complexity and emergent systemic behaviour.

43. // # Extraneous, unexpected, migratory, modal competition during: ?, -?, +?,

e.g. scales of: ~1// #X, ~2// #X, ~3// #X, and, X = (x1, x2, x3 ... xn.)

44. {G}X, {L}X : where {G} is a global context and {L} is a local context relative to some system X.

45. £\$+ : the threshold level for systematic change and consistency in material proportions and behaviour.

46. %%X : where X is a general systemic organic process in which a matrix of osmotic processes of various relative transference velocities interact in various transactions of various scales and complexities.

47. =%%X : where X is a systemic process of empirically defined normative tolerances, attributes and values.

48. [SV] : shuttle value, where an organismic packet of defined ergonomic value (niche) is driven and empowered by largescale changes of state and energy.

EXAMPLE: THE UNIVERSAL BIOLOGICAL ANALOG.

This model is built around the use of atmospheric pressure to deliver water to the plant biology using the transpiration stream up the xylem caused by leaf metabolism and the osmotic uptake of (biologically) necessary ion aggregates from the soil by centripetal ion activity in shoots and roots.

With the Biological transference Model – we have a framework example with which to now operate a more complex description at the level of a systems theory.

01. If the context aggregates Q and their changing attributes with time & Q are available as Q to the DNA script propagating to exploit them, then the evolutionary driver from Q that is Z will arrive in the plant system S at time1.

With systemic structures, macro aggregate defences and enforced adaptive tolerances against usual macrotic chaos, and bridging activities with which to exploit the macro intact, the water transport system conveys the ionic packets to the plant envelope and its metabolism.

where (?S) is the plant seed system and Q = environment aggregates

1a. @ Q >> #Q = ~1S, t1

1d. &t, t2 >> (~1Z = (=:Z) + ("3Z + !3Z))

1c. t2 = Q[@t]Z \$ Q[@d]Z

1d. &t, t3 >> ((?S) + (+?S) = (=:S))

02. The plant system S uses and mutates transport system Z and has successfully incorporated and exploited ?Z in this environmental context. Successful self-assembling aggregate S has enfolded and maintained a Z supply vacuum that exploits the process of evaporation from the tolerances within the soil and vegetation types and the

changes in air temperature and pressure.

S has embedded itself in a persistent opportunity between massive scalar differences in the macro aggregates.

Low S in the macro aggregates is feeding the assembly and emergence of high S within the plant because it is being pulled and transported by the greater and more physically abundant and reactive high Z in the macro aggregates across a massive scalar divide to massively low Z (atmosphere) in Q.

2a. $t_4 = ((\sim 1Z + ? + \&Z) \% (Q + \&Q)) \gg$

2b. $\gg (Z \gg (+?S(\&Z)) + (+?S(-?Z)))$

2c. $\sim 1QZ = (\sim 1!3QZ^* + \sim 1SZ^*!2) = (+?SZ)$

2d. $[@f] \$ [@g]$

03. IF context C (atmosphere activity prevalent), where $C \% Q$, and is greater than or equal to biological and physical plant tolerances - Optimum O, then some water Z plus other ion attributes M will be moved into the plant cytoplasm L in the plant system S at time1.

3a. $S \% (C \% Q), t_4,$

3b. $Q = !3Z = ?Z$

3c. $((C \geq O^*) \gg \sim 1+?Z + (\sim 3^*!2ZM = L) \sim 2S^* + !3ZS) \gg$

3d. $\gg (+?(\#Z + \#\sim 2M) \gg \sim 2L) \gg \sim 2S^*$

3e. $\gg (\&\sim 1Z \% !\sim 3SQ, t_4)$

04. Piggy-backed on the massive scalar processes (e.g. physics and physical energies) interchanging in the groundwater, hydrosphere and aeolosphere, ionic components essential for plant growth and oversufficiency create the possibility of evolutionary asset or fruit. e.g. Plant metabolism: $\sim 1S \gg \sim 3S$, where S in $\sim 3S$ is the process replication description called biological DNA, M = migrating ions, L = cytoplasmic envelope at time n.

i.e. the central systemic manufacturing process of S that creates the subset (s1 .. s3) in order of; macro, meso, micro and also of scale is: $S = (s1, s2, s3)$.

In plants, these processes have primary components of operational capacity that is predicated upon structures utilizing: s1 = protein base, s2 = sugars, s3 = phosphate predicated.

4a. $Q = =:=MZ, t_1$

4b. $S = (s1, s2, s3)$

4c. $S + t_2 + +?Q\sim 2M = (L = (\#\sim 3M + S) + Z) = \sim 3S = (?S)$

4d. $(?S) = [@f] \$ [@g]$

05. In the ground G, in good conditions, the seeds start to sprout. The emergence of the external structure of the plant, E, where $E \% S$, and includes the superstructure of the foliage F, and xylem X: - is driven by aeolian A, and phototrophic P, dictates.

Persistence of temperature and light and moisture and low air pressure

and low turbulence will produce an over-sufficiency O, (=:=), of growth and therefore fruit. (?S).

- 5a. IF $\sim 1S + (?S) \% G + (+? \sim 1Z^{\wedge}) + (+?P^{\wedge}) + (+?A^{\wedge})$, $t1 \gg$
- 5b. $\gg (?S) + \sim 2S + \sim 2Z + (+?S) + ("1S) = t2.$
- 5c. $t2 = ((L = (\#M + \#S) + \sim 2Z)) \$\$$
- 5d. $\$\$ = (E = (\#A + \#P + \sim 2Z^{\wedge} + F + \#M) + \sim 3Z)) = t2.$
- 5e. $t2$, IF $(+? \sim 1Z) \gg ((L = [@f]) \$\$ (E = [@t])) = t3$
- 5f. $t3 \gg (+?S = (+? \sim 2Z) + (+? \sim 3Z)) =$
- 5g. $= (\# \sim 2MFs^* + \# \sim 2MXs^* + (\#S(\#s1, \#s2, \#s2), t2) + \#"2S) + \sim 3Z.$
- 5h. membranes roots and leaves and relative seasonal velocity
- 5h. $t4 = +?S (s1 \gg s2 + \#s3) + (\#"1SFX + \#"2SFX) + //\#$
- 5i. $t5 = +?S(s1 + s2 \gg s3) + (\#"2SFX + \#"3SFX) + //\#$
- 5j. $t6 = +?S(s1 + s2 + s3) \gg ("3SFX \gg (?3S) + IF\# //\#)$
- 5k. $t7 = -?S(\# := (s1 .. s3)) + V (//\#)$

06. At the boundaries of various membranes and other transitional zones used in 'osmosis' by aggregates, there is a relatively normative systemic toll to be paid falling within the usual tolerances of the selfregulating and self-replicating physical system.

e.g. A to B through some common C with the intercession of at least some common D.

However, migratory aspects of adjacent chaos can introduce other modalities and scaling conflicts into the object - context relationship. i.e. A to B through some common C with the intercession of some D that causes destructive distortion in the systemic structure, t1.

Although the systemic resistance exists, depending on the degree of physical impact on the systemic defences and tolerances there will be a gradual shutdown until cessation and de-contextualisation ensues, t3.

e.g. drought. (S = Plant System, Z = Pluvial and Fluvial Water)

- 6a. $t1 = (+? \sim 3//\# \sim 2S) + (-?!1 \sim 1Z)$
- 6b. $t2 = (? \sim 2//\# \sim 1S) + (-?!1 \sim 1Z)$
- 6c. $t3 = (\sim 1//\# \#S) + (-?!1 \sim 1Z)$

07. The Plant System suffers context disruption in its feeding gradient and its metabolic bridging activities and transference gradient are compromised.

Where S = (f1 .. f5), and f1;XXX and Q = (t1 .. t6) and t1;XXX are numeric values; 001 - 999. for the purposes of empirically measuring relative wavelength and frequency for the construction of social information and artefacts.

- 7a. $+?QS, t1$
- 7b. $t1 = S([@f] \$ [@p]) \$\$ Q([@t] \$ [@d]) = [@f] \$\$ [@t]$
- 7c. $t2 = \sim 2//\#S \gg S(f1;075, f2;153, f3;125, f4;092, f5;085) + (\#f2;153)$
- 7d. $t3 = (? \sim 2//\# \sim 1S) + (-?!2 \sim 3Z)$
- 7e. $t2 = S(f;)(075, 000, 125, 092, 085)$
- 7f. $t4 = ?Q[@t] \gg Q(t;)(t1; 150, t2;112, t3; 000, t4; 000, t5; 017, t6; 443)$
- 7g. $t5 = IF "3 \sim 3S \gg (\sim 3//\#S V \sim 2//\#S) = (-? \sim 3S)$
- 7h. $t5 = IF "1!1 \sim 1S \gg (\sim 1//\# \#S)$

7i. $t_5 = \text{"3~3S} \gg (f_1 + f_2 + f_3) \text{ £\$\$ } (t_1 + t_2 + t_3 + t_6) = (\&t\text{£}:=)$
 7j. $t_5 = f;(075 + 000 + 125) = f;200, \text{ \$\$t;1:2} = (//\#\sim 1!S) = (f;\text{red})$
 7k. $t_6 = \sim 1S(f;\text{red}) \gg (f; \text{ tripartite biology domain, massive heating})$
 7l. $t_6 = //\#\sim 1S(f; \text{ geo-drought, dehydration rupture, red distortion})$
 7l. $t_0 = f;(075 + 153 + 125) = f;353, \text{ \$\$t;1:3} = (+?\sim 3"3!3S) = (f;\text{blue})$
 7m. $t_0 = f;(\text{blue, UV}) \gg$
 7m. $t_0 \gg (f; \text{ tripartite physics domain, diffuse atmospheric, less plant red into photosynthesis, more blue/yellow and less red/green, greater xanthophyll and less chlorophyll}).$
 7n. $t_7 = \text{IF } (+?\sim 3"3!1S) = t_1 = (\text{£f2;000}) \gg$
 7o. $t_7 \gg //\#S = //\#f(\sim 1f + \sim 2f + \sim 3f) = \% Q$
 7p. $t_8 = (\text{"2~2f2;000}) + //\#f \gg (\sim 1"1f2;160) = ?S$
 7n. The scale of f_2 needed by S is nested in the larger ecosystem Q , which feeds (+?) the metabolic meso ($\sim 2S$) through various layers of filtration and transportation mechanisms (" $3 V$ "2). These eventually substantiate ($=:=$) the emergence of fruit or other replications, ($\sim 3S$). e.g. [HX] syllogism.
 7q. $t_9 = //\#-?\text{£f2}[@d] + //\#f(\sim 1f + \sim 2f + \sim 3f) + (//\#"2!1Q) \gg \text{£S } V \text{ £\#S}$
 7r. $t_9, \text{ IF } //\#f;XXX = t;XXX + \sim 3"3!1S + \text{£f2} \gg ?S V +?S$

08. The system having been breached by migratory chaos if sufficiently sturdy, complex, well stored and developed may be able to cope with variable distresses within the new orientations of the context. If it does or does not, however, is entirely unpredictable and arbitrary, as physical conditions accrue and emerge and de-merge with time and with the influence of more global activities. Some examples of systemic states for S are given below at time13 and intimations for what may or may not be possible. t_{13} , (8g. - 8x.) for example massive scale velocity transference on massively complex, massively storing systems versus relative damage on similar systems in low scale velocity transference on simple and relatively unfortified systems. A few examples iterate the possibility of complexity and detail within the plant system

8a. $SQ = S([\text{@f}] \$ [\text{@p}]) \$\$ Q([\text{@t}] \$ [\text{@d}]) = [\text{@f}] \$\$ [\text{@t}]$
 8b. $t_9 = \sim 2//\#S \gg S(f_1;075, f_2;153, f_3;125, f_4;092, f_5;085) + (\text{£f2;153})$
 8c. $t_9 = (?~2//\#\sim 1S) + (- !3~3Z) + (\sim 3//\#+?\sim 1!"3Q)$
 8d. $t_{10} = S(f;)(075, 000, 125, 092, 085)$
 8e. $t_{11} = //\#-?\text{£f2}[@d] + //\#f(\sim 1f + \sim 2f + \sim 3f) \gg (\text{£\#S}) + (?S) + (+?S)$
 8f. $t_{12} = \#S \% \sim 1[\text{@t}]"3!3~1S + (\sim 3//\#+?\sim 1!"3Q) + //\#f(\sim 1f + \sim 2f + \sim 3f)$
 8g. $t_{13} = \#S + //\#f;(\sim 1f) \gg \sim 1!1"1-?\text{£S} + (?S) = S \text{ at timeN}$
 8h. $t_{13} = \#S + //\#f;(\sim 1f) \gg \sim 1!1"2-?\text{£S} + (?S) = S \text{ at timeN}$
 8i. $t_{13} = \#S + //\#f;(\sim 1f) \gg \sim 1!1"3-?\text{£S} + (?S) = S \text{ at timeN}$
 8j. $t_{13} = \#S + //\#f;(\sim 1f) \gg \sim 1!2"1-?\text{£S} + (?S) = S \text{ at timeN}$
 8k. $t_{13} = \#S + //\#f;(\sim 1f) \gg \sim 1!2"2S + (?S) V (+?S) V (\text{£S}) = S \text{ at timeN}$
 8l. $t_{13} = \#S + //\#f;(\sim 1f) \gg \sim 1!2"3S + (?S) V (+?S) V (\text{£S}) = S \text{ at timeN}$
 8m. $t_{13} = \#S + //\#f;(\sim 1f) \gg \sim 1!3"1S + (?S) V (+?S) V (\text{£S}) = S \text{ at timeN}$
 8n. $t_{13} = \#S + //\#f;(\sim 1f) \gg \sim 1!3"2S + (?S) V (+?S) V (\text{£S}) = S \text{ at timeN}$
 8o. $t_{13} = \#S + //\#f;(\sim 1f) \gg \sim 1!3"3S + (?S) V (+?S) V (\text{£S}) = S \text{ at timeN}$
 8p. $t_{13} = \#S + //\#f;(\sim 1f) \gg \sim 2!1"1S + (?S) V (+?S) V (\text{£S}) = S \text{ at timeN}$

- 8q. $t_{13} = \#S + \#\#f;(\sim 1f) \gg \sim 2!1"2S + (?S) V (+?S) V (\pounds S) = S$ at timeN
- 8r. $t_{13} = \#S + \#\#f;(\sim 1f) \gg \sim 2!1"3S + (?S) V (+?S) V (\pounds S) = S$ at timeN
- 8s. $t_{13} = \#S + \#\#f;(\sim 1f) \gg \sim 2!2"1S + (?S) V (+?S) V (\pounds S) = S$ at timeN
- 8t. $t_{13} = \#S + \#\#f;(\sim 1f) \gg \sim 2!2"2S + (?S) V (+?S) V (\pounds S) = S$ at timeN
- 8u. $t_{13} = \#S + \#\#f;(\sim 1f) \gg \sim 2!2"3S + (?S) V (+?S) V (\pounds S) = S$ at timeN
- 8v. $t_{13} = \#S + \#\#f;(\sim 1f) \gg \sim 2!3"1S + (?S) V (+?S) V (\pounds S) = S$ at timeN
- 8w. $t_{13} = \#S + \#\#f;(\sim 1f) \gg \sim 2!3"2S + (?S) V (+?S) V (\pounds S) = S$ at timeN
- 8x. $t_{13} = \#S + \#\#f;(\sim 1f) \gg \sim 2!3"3S + (?S) V (+?S) V (\pounds S) = S$ at timeN
- 8y. $t_{13} = \#S + \#\#f;(\sim 1f) \gg \sim 3S = (?S) V (+?S) V (\pounds S) = S$ at timeN
- 8z. $t_{13} = \#S + \sim 1\#\#f(\sim 1f) \gg \#S((-?S) V (?S) V (+?S) V (\pounds S)) = S$ at timeN
- 8aa. $t_{13} = \#S + \#\#f(\sim 2f) \gg \#S((-?S) V (?S) V (+?S) V (\pounds S)) = S$ at timeN
- 8ab. $t_{13} = \#S + \#\#f(\sim 3f) \gg \#S((-?S) V (?S) V (+?S) V (\pounds S)) = S$ at timeN
- 8ac. $t_{14} = \#S + \#\#f(\sim 2f) \gg \# \sim 2S = S$ at timeN

09. Macro Toll Gradient [$@t$] is an energy toll of previously established physical and social parameters measured in and pertaining to the observed context between time1 and time2.

When contextual disaster strikes though, tolerances within the system break down and release numerous breakdown products from aspects of the system and new environmental context that interfere and mix with and disrupt (or augment) previously working and stable physical relationships. e.g. $\sim 1\#\#S, t_1$.

In normative circumstances: Context Q \$ S \gg S([$@d$] \$ [$@t$])

In abnormative disruption :

9a. $t_{15} = \#\#Q \$ \#\#S, \#S \gg = ?S(f_2;153)$ at timeN

9b. $t_{15} = \pounds S + (\#\#(S[$@d$])) = ?S(f_2;153)$ at timeN

Within the damaged system, possibilities for recombination of simples (n) represent at the damage interphase until the unique physical tolerances of the damaged zone are either superceded and disintegrated or useful recombination and structural attenuation can present enough bridging material to repair the systemic defence [$@d$]

such that the feeding gradient from the systemic metabolism can support [$@t$] the abnormative structural distress.

Two similar but differently scaled systems may fare differently in a chaotic context disruption of similar magnitude. No modeling assertion could be absolutely true in a chaotic universe though.

examples s1 and s2, where s1(mature) + s2(young) % S

s1 = !3ZS($\sim 1X"3\sim 1F"2$) mature plant in emergent growing season

s2 = !3ZS($\sim 3X"1\sim 3F"1$) young plant in emergent growing season

9a. $t_{14} = \#\#-?f_2[$@d$] + \#\#f(\sim 1f + \sim 2f + \sim 3f) \gg (\pounds \#S) + (?S) + (+?S)$

9b. $t_{14} = \#S \% \sim 1[$@t$]"3!3\sim 1S + (\sim 3\#\#+?\sim 1!"3Q) + \#\#f(\sim 1f + \sim 2f + \sim 3f)$

In this system S, values for fn at; macro ($\sim 1fn$) = 500 - 1000

meso ($\sim 2fn$) = 50 - 100

micro ($\sim 3fn$) = 1 - 10

In the context $\#\#Q$, however, disruption at ($\sim 1fn$) has caused systemic failure such that the velocity of the normative rate of supply is now insufficient to supply enough systemic defences to slow down the rate

of systemic disintegration.

Some complex systems can still function and retain some damage within their structure.

In the context Q, normatively, the upper and lower tolerances of competition on [@d], lie within the range of [800 - 1200] where [<1000] is prevalent. e.g. 1:10 aggregates in context lie in the range [1001 - 1200] This 1:10 entropy ratio ~3!S would define normative existence within context Q for S. Also 1:10 aggregates in Q, used by S to make ~1S lie within the range [1 - 499]. In the context // #Q, however, this ratio has changed; e.g.1 Contextual disruption of Q has led from a normative ~3!S; (1:10), to a systemically damaging, ~1!S; (1:100 - 1:1000), tn.

$$9c. t15 = // \#S + fn = < \sim 2f2 + + ? [@f] + (\#S + ?S) - S(\sim 1 // \# 1 " 1fn)$$

$$9d. t16 = // \#S + fn + fn = < \sim 2f2 + + ? [@f] + (\#S + ?S) - S(\sim 1 // \# 1 " 1fn)$$

$$9e. t17 = // \#S + fn + fn + fn = < \sim 2f2 + + ? [@f] + (\#S + ?S) - S(\sim 1 // \# 1 " 1fn)$$

$$9f. t18 = // \#S + fn + fn + fn + fn = < \sim 2f2 + + ? [@f] + (\#S + ?S) -$$

$$9f. t18 = - S(\sim 1 // \# 1 " 1fn).$$

$$9g. t19 = // \#S + fn + fn + fn + fn + fn = < \sim 2f2 + + ? [@f] + (\#S + ?S) - 9g. t19 -$$

$$S(\sim 1 // \# 1 " 1fn). 9h. (t14 - tn) = // \#SQ + ? [@f] >> \#S + // \#Q = (\#fn = < \sim 2f2, tn) + (\#S + ?S) \vee 9h. (+ ?S).$$

$$9h. t20 = // \#S + 6(fn), @tn(t+1) >> @fn(+1fn)tn. = < \sim 2f2.$$

$$9h. t20 \sim 2f2 + (+ ? [@f] + (\#S + ?S) - S(\sim 1 // \# 1 " 1fn))$$

$$9i. t21 = // \#S + 7(fn) + = < (\#fn = < \sim 2f2, tn) + (\#S + ?S) - S(\sim 1 // \# 1 " 1fn)$$

$$9j. tn = // \#S + 8(fn) + = < (\#fn = < \sim 2f2, tn) + (\#S + ?S) - S(\sim 1 // \# 1 " 1fn)$$

10. Disruptions in the context // #Q may allow the survival of system S or not - dependent on the nature and magnitude and duration of the systemic de-contextualisation and the durability and complexity of the system. e.g. X = xylem transport system and F = foliage. s1 = mature, s2 = young. s1 = !3ZS(~1X"3~1F"2) mature plant in emergent growing season, tn. s2 = !3ZS(~3X"1~3F"1) young plant in emergent growing season, tn. 10a. tn = (@ // #Q >> £S) \vee (# // #Q >> #S(s1.x)); (S, phenotypes, 10a. tn = properties.x)

$$10b. t23 = !1ZS(\sim 1X"3\sim 1F"1), xs1.1; (deluge, mature root and xylem, 10b. t23 = bad foliage).$$

$$10b. t23 = !1ZS(\sim 1X"2\sim 1F"3), xs1.2; (deluge, mature root and xylem, 10b. t23 = excellent foliage).$$

$$10b. t23 = !1ZS(\sim 1X"1\sim 1F"1), xs1.3; (deluge, mature/decayed root 10b. t23 = and xylem, bad foliage).$$

$$10c. t24 = @ // \#Q = (- ? s(1.1 + 1.2)) \vee (? s(1.1 + 1.2)) + £(s1.3)$$

$$10d. t25 = @ // \#Q ! 1Z >> S = (£X)x; (deluge, root dislocation, £ [@f])$$

$$10e. t25 = IF @ // \#Q = t26 >> (s1.2 > s1.1) + (! 1\sim 1Z) + #(? s(1.2 > 1.1))$$

$$10f. t25 = IF @ // \#Q = t27 >> (s1.2 < s1.1) + (! 1\sim 1Z) + #(? s(1.1 > 1.2))$$

$$10e. t26 = ! 1Z @ // \#QSs >> \# \sim 3Q, x; (optimum temperature and light,$$

$$10e. t26 = £ [@f])$$

$$10f. t27 = ! 1Z @ // \#QSs >> \# \sim 1Q, x; (extreme temperature and light, £ [@f])$$

$$10g. t27 = f2 \% \& Q = (q1, q2, q3, q4, Q(1-n), \sim 1Z) > @ (\sim 2S + \sim 3S)$$

$$10h. t27 = # (\sim 1S) = f2 \% (q1, q4)$$

$$10i. t27 = @ Q \% \& W = (W1, W2, w1, w2, w3, w4 \dots wn)$$

10i. t27 = W;(tectonics, volcanism, tsunami) = &Q(~1!1{G} + ~1!1{L})

10i. t27 = W;(Richter, Geochemistry, Salinity + Temp) >> \$\$[@t]s

10j. t28 = W1 \$\$ W2 >> @//Q (q1 \$\$ q4) >> f2 + (&~1!1"1Q) + (#QSs)

10k. t28 = (!1W1 \$\$!1W2 >> =:= {G}@w + #{L} >> (q1 \$\$ q4)

10l. t29 = #~3{L} >> #~3(f2) >> #{L}Ss = (:= + ?Ss)

The objects and labels within this event description are interchangeable between similar events in different domains.

E.g. function, malfunction, systemic integrity and disintegrity in the 'fruiting' process in other systems and outcomes.

TRIPARTITE ESSENTIALISM - and its EXPERT SYSTEM

Three part Essentialism

For an AI computer to map, model and think about the universe it has to have knowledge about the universe represented to it logically in a classification system with general terms that are not arbitrary.

Better, the computer requires to process data and empirical values to give it a sense of exactly what it is dealing with – and this it can do with sensors.

If the computer can classify objects in its universe by physical values e.g. in terms of scales of energy (e.g. giga volts, volts, millivolts etc) and if it has a series of maps that tell it how objects at all scales and in all situations perform and relate, and these maps are constructed out of one general systems paradigm, then if it ever comes across an unknown in some domain it is operating in e.g. astronomy and cosmology – the macrocosm it can then scale up the logical values and ratios and models of relationships from a domain in the microcosm such as marine biology to model a solution to its more cosmic unknowns.

This is called isomorphism between domains and can be achieved within the Tripartite Essentialism paradigm.

Without modelling with TRE – Turing's 'Halting Problem' would confuse the computation process by objects described by an infinity of unrelated and arbitrary labels.

http://en.wikibooks.org/wiki/Systems_Theory/Isomorphic_Systems

TRE has the general systems theory [6 keys systems theory] and mapping, knowledge representation system [TREES] and specialised language [HX PROLOG] to query and instruct the database and maps. At the heart of the metaphysics (called tripartite essentialism) is the essence of every transaction in the universe at all scales and magnitudes. There are eight models (that are 'logically real') of the one and only universal transaction of the form A to B through a common context C [However, including undecided/modal states at time 1 - the definition can also be A to B through a common C with the intercession of at least one D - there are 27 three part descriptions which include those extra undecided or modal states]

ie.

Universally, logically, every transaction A to B through a common medium C can have eight and only eight forms of integrity at time 1. The state description of Object A and how it functions relates how it functions and how integrated and effective it is at any given time. Also Object A makes a donation of surplus energy in a competitive environment/context. A is a developed and sophisticated object or

process that is capable of emerging or losing surplus from its investments or internal works C and this surplus B is its assets/qualities at B.

Energy flowing from higher to lower down a gradient of exchange through its internal structures A to B through common C

0 0 0 0 1 1 1 1 A OBJECT High Frequency

0 0 1 1 0 0 1 1 C PROCESS

0 1 0 1 0 1 0 1 B QUALITY Low Frequency Surplus (Oogenic investment)

TRE uses organic models in a general systems theory with which to map the universe and its behaviour at all scales and in all contexts. In any context for a physical event or process, the physical transaction, the essential exchange, can be modelled and categorised by the properties of its high frequency components that then emerge and facilitate its low frequency qualities and assets e.g. its emerged assets/seeds/investments etc ie. the process is Oogenic - seed making/crystallising/telic.

All physical transactions take the form ACB

TRE in natural and logical language has objects or nouns, processes or verbs and qualities/assets or adjectives. In tripartite metaphysics every object and event can be mapped out in natural language as noun verb and adjective of the type object process and quality/asset.

The metaphysics of a universal three part exchange is given below - followed by the language [HX] Assembler which can be used to model the fine details and context within each exchange.

An essence characterizes a substance or a form, in the sense of the Forms or Ideas in Platonic idealism. It is permanent, unalterable, and eternal; and present in every possible world. Classical humanism has an essentialist conception of the human being, which means that it believes in an eternal and unchangeable human nature.

Essentialism, in its broadest sense, is any philosophy that acknowledges the primacy of Essence. Unlike Existentialism, which posits "being" as the fundamental reality, the essentialist ontology must be approached from a metaphysical perspective. Empirical knowledge is developed from experience of a relational universe whose components and attributes are defined and measured in terms of intellectually constructed laws.

The three part essences describe the integrity of the exchange at time 1 and at time 2 ie. whether the objects, its process and its quality are in an integrated or disintegrated state and can resemble Boolean logic.

This kind of knowledge about the three part states is a priori or synthetic a priori.

The terms a priori ("from the earlier") and a posteriori ("from the later") are used in philosophy (epistemology) to distinguish two types of knowledge, justifications or arguments. A priori knowledge or justification is independent of experience (for example "All bachelors

are unmarried"); a posteriori knowledge or justification is dependent on experience or empirical evidence (for example "Some bachelors are very happy"). A posteriori justification makes reference to experience; but the issue concerns how one knows the proposition or claim in question—what justifies or grounds one's belief in it. Galen Strawson wrote that an a priori argument is one in which "you can see that it is true just lying on your couch. You don't have to get up off your couch and go outside and examine the way things are in the physical world. You don't have to do any science." [1] There are many points of view on these two types of assertions, and their relationship is one of the oldest problems in modern philosophy.

The terms "a priori" and "a posteriori" are used in philosophy to distinguish two different types of knowledge, justification, or argument: 'a priori knowledge' is known independently of experience (conceptual knowledge), and "a posteriori knowledge" is proven through experience. Thus, they are primarily used as adjectives to modify the noun "knowledge", or taken to be compound nouns that refer to types of knowledge (for example, "a priori knowledge"). However, "a priori" is sometimes used as an adjective to modify other nouns, such as "truth". Additionally, philosophers often modify this use. For example, "apriority" and "aprioricity" are sometimes used as nouns to refer (approximately) to the quality of being "a priori".

The status of TRE and its before the fact (a priori) essentialist states introduces certainty into its applications. This means that limited and closed sets of numbers with which to represent the infinite will enable any computation based on these TRE numbers to overcome the Halting problem.

The following is some background to the Halting problem which basically states that various thinkers have pronounced in insoluble !!

In computability theory, the halting problem can be stated as follows: Given a description of an arbitrary computer program, decide whether the program finishes running or continues to run forever. This is equivalent to the problem of deciding, given a program and an input, whether the program will eventually halt when run with that input, or will run forever.

Alan Turing proved in 1936 that a general algorithm to solve the halting problem for all possible program-input pairs cannot exist. A key part of the proof was a mathematical definition of a computer and program, what became known as a Turing machine; the halting problem is undecidable over Turing machines. It is one of the first examples of a decision problem.

The halting problem is historically important because it was one of the first problems to be proved undecidable. (Turing's proof went to press in May 1936, whereas Alonzo Church's proof of the undecidability of a problem in the lambda calculus had already been published in April 1936.) Subsequently, many other undecidable problems have been

described; the typical method of proving a problem to be undecidable is with the technique of reduction. To do this, it is sufficient to show that if a solution to the new problem were found, it could be used to decide an undecidable problem by transforming instances of the undecidable problem into instances of the new problem. Since we already know that no method can decide the old problem, no method can decide the new problem either. Often the new problem is reduced to solving the halting problem.

For example, one such consequence of the Halting problem's undecidability is that there cannot be a general algorithm that decides whether a given statement about natural numbers is true or not. The reason for this is that the proposition stating that a certain program will halt given a certain input can be converted into an equivalent statement about natural numbers. If we had an algorithm that could solve every statement about natural numbers, it could certainly solve this one; but that would determine whether the original program halts, which is impossible, since the halting problem is undecidable.

Rice's theorem generalizes the theorem that the halting problem is unsolvable. It states that any non-trivial property of the partial function that is implemented by a program is undecidable. (A partial function is a function which may not always produce a result, and so is used to model programs, which can either produce results or fail to halt.) For example, the property "halt for the input 0" is undecidable. Note that this theorem holds only for properties of the partial function implemented by the program; Rice's Theorem does not apply to properties of the program itself. For example, "halt on input 0 within 100 steps" is not a property of the partial function that is implemented by the program-it is a property of the program implementing the partial function and is very much decidable.

Gregory Chaitin has defined a halting probability, represented by the symbol O , a type of real number that informally is said to represent the probability that a randomly produced program halts. These numbers have the same Turing degree as the halting problem. It is a normal and transcendental number which can be defined but cannot be completely computed. This means one can prove that there is no algorithm which produces the digits of O , although its first few digits can be calculated in simple cases.

While Turing's proof shows that there can be no general method or algorithm to determine whether algorithms halt, individual instances of that problem may very well be susceptible to attack. Given a specific algorithm, one can often show that it must halt for any input, and in fact computer scientists often do just that as part of a correctness proof. But each proof has to be developed specifically for the algorithm at hand; there is no mechanical, general way to determine whether algorithms on a Turing machine halt. However, there are some heuristics that can be used in an automated fashion to attempt to construct a proof, which

succeed frequently on typical programs. This field of research is known as automated termination analysis.

Since the negative answer to the halting problem shows that there are problems that cannot be solved by a Turing machine, the Church-Turing thesis limits what can be accomplished by any machine that implements effective methods. However, not all machines conceivable to human imagination are subject to the Church-Turing thesis (e.g. oracle machines are not). It is an open question whether there can be actual deterministic physical processes that, in the long run, elude simulation by a Turing machine, and in particular whether any such hypothetical process could usefully be harnessed in the form of a calculating machine (a hypercomputer) that could solve the halting problem for a Turing machine amongst other things. It is also an open question whether any such unknown physical processes are involved in the working of the human brain, and whether humans can solve the halting problem.

TRE (Hennessey, 1991), however does solve the Halting problem in AI computation.

In the TRE general systems theory, any event and its context in the universe can be classified as having;

- 1. a core, ingredients and context – its macro,**
- 2. its infrastructure that deploys the cores function – its meso**
- 3. its periphery where its evolutionary or competitive or functional aspects are qualitatively deployed – the micro**

This characterisation of any object and its supporting context at any scale can be depicted in terms of its external and internal exchanges within and between components and mapped out using a physics and metaphysics of power-law electricity (Ohms Law).

Exchanges of the type high to low through a common medium are universal – hence mapping of events and objects within them could be generally depicted using TRE ideas as a circuit diagram of some functional artefact.

The universe and its complexity can be translated into the metaphysics of circuit diagrams.

Some of the resistances and impedances in complex organic objects are complex events in themselves – not just brief surges of electrons down copper wires.

For example one could take a functional electrical artefact like a transistor radio and define its input-process-output chain, its components, their energy tolerances etc in general metaphysical terms whose components can be modelled at levels of increasing complexity from the inorganic to the organic.

If every object and its context can be modelled by this metaphysics of electricity then every object that is identified becomes in terms of

TRE a system that is either 1, which is integrated and functional or 0 which is non-functional and disintegrated.

In the TRE modelling language [A] there are 729 states of modality and relative integrity where the closer to 1 or full integrity a system can be the more functional it is and therefore the more knowable and known. Each object has 3-part zones nested within other 3-part zones but their integrity will be described as one of 729 modal states.

At 729 there is infinity, disintegrality and the unknown, but once the evaluated query has been empirically calibrated and applied to an unknown situation, more integrity can be recognised and the performance of the system can be more understood. At this point it loses infinity and become some of 729 finite states – and then by further evaluation and borrowing similar data structures from other knowledge domains – the picture of system integrity can move closer to true integrity at 1.

An artificially intelligent computer would never be stuck on 729 because the query itself frames the question about an object in the universe and also largely defines the answer.

The TRE query empirically defines such things as; scale, transaction gradients, nature of system components and the properties of its atomic components. The query will empirically evaluate how solid, viscous or fluid the context and object and identify its high and low energy components.

In the TRE system because the query always recognises a system/object in its context, there is no infinity and no 'Halting problem', because to recognise something to query is to perceive an integrated system that always has less uncertainty than infinity.

The AI can then borrow component models from other domains with which to repopulate the unknowns in its own understanding of an event.

In the TRE system there can only ever be 1-729 descriptions of the integrity of any event in change with time. This limited and closed Arithmetic series of (1-729) of the language [A] is of an 'essentialist numbering' that are the 'logical atoms' at the core of every system and process in the universe.

It is not a decimal system of 'real numbers' – although it uses the Arabic decimal numbers to depict the sequence of values in its set of 729. The set (1-729) of the language [A] is a law-like, universal and archetypal process that relates to a series of Boolean and Tripartite exchanges in the process A to B through some common C with the intercession of at least some D.

TRE therefore is of the paradigm called Logical Atomism and is also the basis of a General Systems Theory

Logical atomism is a philosophical belief that originated in the early 20th century with the development of analytic philosophy. Its principal exponents were the British philosopher Bertrand Russell, the early work of his Austrian-born pupil and colleague Ludwig Wittgenstein, and his German counterpart Rudolf Carnap.

The theory holds that the world consists of ultimate logical "facts" (or "atoms") that cannot be broken down any further. Having originally propounded this stance in his *Tractatus Logico-Philosophicus*,

The name for this kind of theory was coined in 1918 by Russell in response to what he called "logical holism"; i.e. the belief that the world operates in such a way that no part can be known without the whole being known first.[citation needed] This belief is commonly called monism, and in particular, Russell (and G.E. Moore) were reacting to the absolute idealism dominant then in Britain.[

The term was first coined in a 1911 essay by Russell. However, it became widely known only when Russell gave a series of lectures in 1918 entitled "The Philosophy of Logical Atomism". Russell was much influenced by Ludwig Wittgenstein, as an introductory note explicitly acknowledges.

Russell and Moore broke themselves free from British Idealism which, for nearly 90 years, had dominated British Philosophy. Russell would later recall in "My Mental Development" that "with a sense of escaping from prison, we allowed ourselves to think that grass is green, that the sun and stars would exist if no one was aware of them ...".

The principles of logical atomism

Russell referred to his atomistic doctrine as contrary to the tier "of the people who more or less follow Hegel".

The first principle of logical atomism is that the World contains "facts". The facts are complex structures consisting of objects ("Particulars"). This he defines as "objects' relations in terms of atomic facts" (PLA 199) is a fact, either from an object with a simple property or from different objects, in relation to each other more easily. In addition, there are judgments ("Beliefs"), which are in a relationship to the facts, and by this relationship either true or false.

According to this theory even ordinary objects of daily life "are apparently complex entities". According to Russell words like "this" and "that" are words used to denote particulars. In contrast, ordinary names such as "Socrates" actually are definitive descriptions, according to Russell. In the analysis of "Plato talks with his pupils", "Plato" needs to be replaced with something like "the man who was the teacher of Aristotle".

TRE is a General Systems Theory

Systems theory is the interdisciplinary study of systems in general, with the goal of elucidating principles that can be applied to all types of systems at all nesting levels in all fields of research.[citation needed] The term does not yet have a well-established, precise meaning, but

systems theory can reasonably be considered a specialization of systems thinking, a generalization of systems science, a systems approach. The term originates from Bertalanffy's General System Theory (GST) and is used in later efforts in other fields, such as the action theory of Talcott Parsons and the system-theory of Niklas Luhmann. In this context the word systems is used to refer specifically to self-regulating systems, i.e. that are self-correcting through feedback. Self-regulating systems are found in nature, including the physiological systems of our body, in local and global ecosystems, and in climate-and in human learning processes.

General systems research and systems inquiry – background

Many early systems theorists aimed at finding a general systems theory that could explain all systems in all fields of science. The term goes back to Bertalanffy's book titled "General System theory: Foundations, Development, Applications" from 1968. According to Von Bertalanffy, he developed the "allgemeine Systemlehre" (general systems teachings) first via lectures beginning in 1937 and then via publications beginning in 1946.

Von Bertalanffy's objective was to bring together under one heading the organismic science that he had observed in his work as a biologist. His desire was to use the word "system" to describe those principles which are common to systems in general. In GST, he writes:

...there exist models, principles, and laws that apply to generalized systems or their subclasses, irrespective of their particular kind, the nature of their component elements, and the relationships or "forces" between them. It seems legitimate to ask for a theory, not of systems of a more or less special kind, but of universal principles applying to systems in general.

Ervin Laszlo in the preface of von Bertalanffy's book.

General System Theory: Background

Thus when von Bertalanffy spoke of Allgemeine Systemtheorie it was consistent with his view that he was proposing a new perspective, a new way of doing science. It was not directly consistent with an interpretation often put on "general system theory", to wit, that it is a (scientific) "theory of general systems." To criticize it as such is to shoot at straw men. Von Bertalanffy opened up something much broader and of much greater significance than a single theory (which, as we now know, can always be falsified and has usually an ephemeral existence): he created a new paradigm for the development of theories. Ludwig von Bertalanffy outlines systems inquiry into three major domains: Philosophy, Science, and Technology. In his work with the Primer Group, Béla H. Bánáthy generalized the domains into four integratable domains of systemic inquiry:

Domain
Description

Philosophy:

the ontology, epistemology, and axiology of systems;

Theory

a set of interrelated concepts and principles applying to all systems

Methodology

the set of models, strategies, methods, and tools that instrumentalize systems theory and philosophy

Application

the application and interaction of the domains

These operate in a recursive relationship, he explained. Integrating Philosophy and Theory as Knowledge, and Method and Application as action, Systems Inquiry then is knowledgeable action.

TRE has its own unique Knowledge Representation System and with this it is possible to build topographical maps of all domains of knowledge using the empirical values and scientific units of measurement e.g. watts, volts for each object or noun in the domain

Knowledge Representation (KR) research involves analysis of how to reason accurately and effectively and how best to use a set of symbols to represent a set of facts within a knowledge domain. A symbol vocabulary and a system of logic are combined to enable inferences about elements in the KR to create new KR sentences. Logic is used to supply formal semantics of how reasoning functions should be applied to the symbols in the KR system. Logic is also used to define how operators can process and reshape the knowledge. Examples of operators and operations include, negation, conjunction, adverbs, adjectives, quantifiers and modal operators. The logic is interpretation theory. These elements--symbols, operators, and interpretation theory--are what give sequences of symbols meaning within a KR.

A key parameter in choosing or creating a KR is its expressivity. The more expressive a KR, the easier and more compact it is to express a fact or element of knowledge within the semantics and grammar of that KR. However, more expressive languages are likely to require more complex logic and algorithms to construct equivalent inferences. A highly expressive KR is also less likely to be complete and consistent. Less expressive KRs may be both complete and consistent.

Autoepistemic temporal modal logic is a highly expressive KR system, encompassing meaningful chunks of knowledge with brief, simple symbol sequences (sentences). Propositional logic is much less expressive but highly consistent and complete and can efficiently produce inferences with minimal algorithm complexity. Nonetheless, only the limitations of an underlying knowledge base affect the ease with which inferences may ultimately be made (once the appropriate KR has been found). This is because a knowledge set may be exported from

a knowledge model or knowledge base system (KBS) into different KRs, with different degrees of expressiveness, completeness, and consistency. If a particular KR is inadequate in some way, that set of problematic KR elements may be transformed by importing them into a KBS, modified and operated on to eliminate the problematic elements or augmented with additional knowledge imported from other sources, and then exported into a different, more appropriate KR.

In applying KR systems to practical problems, the complexity of the problem may exceed the resource constraints or the capabilities of the KR system. Recent developments in KR include the concept of the Semantic Web, and development of XML-based knowledge representation languages and standards, including Resource Description Framework (RDF), RDF Schema, Topic Maps, DARPA Agent Markup Language (DAML), Ontology Inference Layer (OIL)[2], and Web Ontology Language (OWL).

There are several KR techniques such as frames, rules, tagging, and semantic networks which originated in Cognitive Science. Since knowledge is used to achieve intelligent behavior, the fundamental goal of knowledge representation is to facilitate reasoning, inferencing, or drawing conclusions. A good KR must be both declarative and procedural knowledge. What is knowledge representation can best be understood in terms of five distinct roles it plays, each crucial to the task at hand :

** A knowledge representation (KR) is most fundamentally a surrogate, a substitute for the thing itself, used to enable an entity to determine consequences by thinking rather than acting, i.e., by reasoning about the world rather than taking action in it.*

** It is a set of ontological commitments, i.e., an answer to the question: In what terms should I think about the world?*

** It is a fragmentary theory of intelligent reasoning, expressed in terms of three components: (i) the representation's fundamental conception of intelligent reasoning; (ii) the set of inferences the representation sanctions; and (iii) the set of inferences it recommends.*

** It is a medium for pragmatically efficient computation, i.e., the computational environment in which thinking is accomplished. One contribution to this pragmatic efficiency is supplied by the guidance a representation provides for organizing information so as to facilitate making the recommended inferences.*

** It is a medium of human expression, i.e., a language in which we say things about the world."*

The inference engine is a computer program designed to produce a reasoning on rules. In order to produce a reasoning, it is based on logic.

There are several kinds of logic: propositional logic, predicates of order 1 or more, epistemic logic, modal logic, temporal logic, fuzzy logic, etc.

Except for propositional logic, all are complex and can only be understood by mathematicians, logicians or computer scientists. Propositional logic is the basic human logic, that is expressed in syllogisms. The expert system that uses that logic is also called a zeroth-order expert system. With logic, the engine is able to generate new information from the knowledge contained in the rule base and data to be processed.

The engine has two ways to run: batch or conversational. In batch, the expert system has all the necessary data to process from the beginning. For the user, the program works as a classical program: he provides data and receives results immediately. Reasoning is invisible. The conversational method becomes necessary when the developer knows he cannot ask the user for all the necessary data at the start, the problem being too complex. The software must "invent" the way to solve the problem, request the missing data from the user, gradually approaching the goal as quickly as possible. The result gives the impression of a dialogue led by an expert. To guide a dialogue, the engine may have several levels of sophistication: "forward chaining", "backward chaining" and "mixed chaining". Forward chaining is the questioning of an expert who has no idea of the solution and investigates progressively (e.g. fault diagnosis). In backward chaining, the engine has an idea of the target (e.g. is it okay or not? Or: there is danger but what is the level?). It starts from the goal in hopes of finding the solution as soon as possible. In mixed chaining the engine has an idea of the goal but it is not enough: it deduces in forward chaining from previous user responses all that is possible before asking the next question. So quite often he deduces the answer to the next question before asking it.

A strong interest in using logic is that this kind of software is able to give the user clear explanation of what it is doing (the "Why?") and what it has deduced (the "How?"). Better yet, thanks to logic the most sophisticated expert system are able to detect contradictions[30] into user information or in the knowledge and can explain them clearly, revealing at the same time the expert knowledge and his way of thinking.

The Knowledge Maps of each domain and the energy profiles of the objects that they contain create geographical maps. In Artificial Intelligence – a machine will be able to automatically borrow analogies and models for unknown scenarios from a database of maps it holds for other domains and other physical events at all scales of magnitude.

Isomorphism

Isomorphism is the formal mapping between complex structures where the two structures contain equal parts. This formal mapping is a fundamental premise used in mathematics and is derived from the

Greek words Isos, meaning equal, and morphe, meaning shape. Identifying isomorphic structures in science is a powerful analytical tool used to gain deeper knowledge of complex objects. Isomorphic mapping aids biological and mathematical studies where the structural mapping of complex cells and sub-graphs is used to understand equally related objects.

TRE has an isomorphic mapping system based on its '6 Keys' General Systems Theory. Before explaining this here is some background about the current thinking on what is possible and impossible with Isomorphic Mapping.

Isomorphic Mapping - background

Isomorphic mapping is applied in systems theory to gain advanced knowledge of the behavior of phenomena in our world. Finding isomorphism between systems opens up a wealth of knowledge that can be shared between the analyzed systems. Systems theorists further define isomorphism to include equal behavior between two objects. Thus, isomorphic systems behave similarly when the same set of input elements is presented. As in scientific analysis, systems theorists seek out isomorphism in systems so to create a synergetic understanding of the intrinsic behavior of systems. Mastering the knowledge of how one system works and successfully mapping that system's intrinsic structure to another releases a flow of knowledge between two critical knowledge domains. Discovering isomorphism between a well understood and a lesser known, newly defined system can create a powerful impact in science, medicine or business since future, complex behaviors of the lesser understood system will become revealed.

Methods

General systems theorists strive to find concepts, principles and patterns between differing systems so that they can be readily applied and transferred from one system to another. Systems are mathematically modeled so that the level of isomorphism can be determined. Event graphs and data flow graphs are created to represent the behavior of a system. Identical vertices and edges within the graphs are discovered to identify equal structure between systems. Identifying this isomorphism between modeled systems allows for shared abstract patterns and principles to be discovered and applied to both systems. Thus, isomorphism is a powerful element of systems theory which propagates knowledge and understanding between different groups. The archive of knowledge obtained for each system is increased. This empowers decision makers and leaders to make critical choices concerning the system in which they participate. As future behavior of a system is more well understood, good decision making concerning the potential balance and operation of a system is facilitated.

Uses

Isomorphism has been used extensively in information technology as computers have evolved from simple low level circuitry with a minimal

external interface to highly distributed clusters of dedicated application servers. All computer scientific concepts are derived from fundamental mathematical theory. Thus, isomorphic theory is easily applied within the computer science domain. Finding isomorphism between lesser undeveloped and current existing technologies is a powerful goal within the IT industry as scientists determine the proper path in implementing new technologies. Modeling an abstract dedicated computer or large application on paper is much less costly than building the actual instance with hardware components. Finding isomorphism within these modeled, potential computer technologies allows scientists to gain an understanding of the potential performance, drawbacks and behavior of emerging technologies. Isomorphic theory is also critical in discovering "design patterns" within applications. Computer scientists recognized similar abstract data structures and architecture types within software as programs migrated from low level assembler language to the currently used higher level languages. Patterns of equivalent technical solution architectures have been documented in detail. Modularization, functionality, interfacing, optimization, and platform related issues are identified for each common architecture so to further assist developers implementing today's applications. Examples of common patterns include the "proxy" and "adapter" patterns. The proxy design pattern defines the best way to implement a remote object's interface, while the adapter pattern defines how to build interface wrappers around frequently instantiated objects. Current research into powerful, new abstract solutions to industry specific applications and the protection of user security and privacy will further benefit from implementing isomorphic principles.

Comparing real vs model

The most powerful use for isomorphic research occurs when comparing a synthetic model of a natural system and the real existence of that system in nature. System theorists build models to potentially solve business, engineering and scientific problems and to gain a valid representation of the natural world. These models facilitate understanding of our natural phenomena. Theorists work to build these powerful isomorphic properties between the synthetic models they create and real world phenomena. Discovering significant isomorphism between the modeled and real world facilitates our understanding of the our own world. Equal structure must exist between the man-made model and the natural system so to ensure an isomorphic link between the two systems. The defined behavior and principles built inside the synthetic model must directly parallel the natural world. Success in this analytical and philosophical drive leads man to gain a deeper understanding of himself and the natural world he lives in.

The General Systems Theory of TRE holds that osmosis is a natural and universal law and that the relativity of A to B through a common membrane C is regulated by natural power laws like the Inverse Square Law seen in Ohms Law, Fajans rules, Newtonian gravity etc

Osmosis is the movement of solvent molecules through a partially permeable membrane into a region of higher solute concentration, aiming to equalize the solute concentrations on the two sides. It may also be used to describe a physical process in which any solvent moves, without input of energy, across a semipermeable membrane (permeable to the solvent, but not the solute) separating two solutions of different concentrations. Although osmosis does not require input of energy, it does use kinetic energy and can be made to do work.

Net movement of solvent is from the less concentrated (hypotonic) to the more concentrated (hypertonic) solution, which tends to reduce the difference in concentrations. This effect can be countered by increasing the pressure of the hypertonic solution, with respect to the hypotonic. The osmotic pressure is defined to be the pressure required to maintain an equilibrium, with no net movement of solvent. Osmotic pressure is a colligative property, meaning that the osmotic pressure depends on the molar concentration of the solute but not on its identity.

Osmosis is essential in biological systems, as biological membranes are semipermeable. In general, these membranes are impermeable to large and polar molecules, such as ions, proteins, and polysaccharides, while being permeable to non-polar and/or hydrophobic molecules like lipids as well as to small molecules like oxygen, carbon dioxide, nitrogen, nitric oxide, etc. Permeability depends on solubility, charge, or chemistry, as well as solute size. Water molecules travel through the plasma membrane, tonoplast membrane (vacuole) or protoplast by diffusing across the phospholipid bilayer via aquaporins (small transmembrane proteins similar to those in facilitated diffusion and in creating ion channels). Osmosis provides the primary means by which water is transported into and out of cells. The turgor pressure of a cell is largely maintained by osmosis, across the cell membrane, between the cell interior and its relatively hypotonic environment.

Voltage, otherwise known as electrical potential difference or electric tension (denoted V and measured in volts, or joules per coulomb) is the potential difference between two points - or the difference in electric potential energy per unit charge between two points.[1] Voltage is equal to the work which would have to be done, per unit charge, against a static electric field to move the charge between two points. A voltage may represent either a source of energy (electromotive force), or it may represent lost or stored energy (potential drop). A voltmeter can be used to measure the voltage (or potential difference) between two points in a system; usually a common reference potential such as the ground of the system is used as one of the points. Voltage can be caused by static electric fields, by electric current through a magnetic field, by time-varying magnetic fields, or a combination of all three.

Inverse Square Power Law in use in TRE

In physics, an inverse-square law is any physical law stating that a specified physical quantity or strength is inversely proportional to the

square of the distance from the source of that physical quantity. The divergence of a vector field which is the resultant of radial inverse-square law fields with respect to one or more sources is everywhere proportional to the strength of the local sources, and hence zero outside sources.

The lines represent the flux emanating from the source. The total number of flux lines depends on the strength of the source and is constant with increasing distance. A greater density of flux lines (lines per unit area) means a stronger field. The density of flux lines is inversely proportional to the square of the distance from the source because the surface area of a sphere increases with the square of the radius. Thus the strength of the field is inversely proportional to the square of the distance from the source.

Ohm's law is an empirical law, a generalization from many experiments that have shown that current is approximately proportional to electric field for most materials. It is less fundamental than Maxwell's equations and is not always obeyed. Any given material will break down under a strong-enough electric field, and some materials of interest in electrical engineering are "non-ohmic" under weak fields.

Ohm's law has been observed on a wide range of length scales. In the early 20th century, it was thought that Ohm's law would fail at the atomic scale, but experiments have not borne out this expectation. As of 2012, researchers have demonstrated that Ohm's law works for silicon wires as small as four atoms wide, and one atom high.

THE ISOMORPHIC MAPPING SYSTEM OF TRE based on its '6 Keys' General Systems Theory.

In nature it can be said generally that all objects and events have a core or nucleus, an infrastructure that deploys its manufactured components, and a maintained periphery between this and other systems at which the assets of the nucleus are competitively employed.

In Tripartite Relativity these three zones are; the macro, the meso and the micro, respectively.

In further modelling three part systems there are two other functional aspects to each zone that illustrate the specialism within.

That is their endogenous and exogenous relativity. I.e. macro, meso and micro zones each have an endogenous and exogenous component with which to maintain self-regulation.

Endogenous functions are those processes which maintain the internal function and behaviour in nature and enable self-regulation or homeostasis.

Self-regulation as modelled by e.g. Kauffman at Santa Fe Institute c.a. 1990 is an innate aspect of every natural chaos based system.

The exogenous functions apply the assets of each zone to some external evolutionary or qualitative purpose.

Thus a tripartite object has six aspects around which its equilibrium revolves.

It is further assumed that the exogenous and endogenous components are related by an inverse power law and that the external context¹ to the macro is related by such a law and also the macro to the meso and the meso to the micro and the micro to the external context²

These power laws in operation are governed by supply and demand within and between the zones and their contexts driven by the gradient between the core or nucleus and its assets and periphery.

The self-regulating endogenous components create a demand within the system, and its exogenous components obtain and facilitate a supply/re-supply.

These 6 related power law relationships are fulcra or keys around which the homeostatic three part system regulates itself.

Hence this organic general systems theory model is called '6-Keys Systems Theory'.

Every component of every component has 6 Keys. It is postulated that this is law-like in its application.

For computer modelling purposes in developing models and analogs for complex environments, models of events and their objects can be developed by nesting 6-Key objects within 6-Key objects.

It would work in starting with the most general set of empirical parameters that detail the system and its context of its objects and then a decision on what empirical aspects of what components within the system are relevant, and then nesting progressively more detailed 6-Key object parameters within the macro to such a level of detail as deemed necessary by enquiry.

We would end up with a topographical object map with fine empirical detail of relevant subsystems somewhat akin to a geographical map of a landscape.

In the same way that the waters of viable life flow down from the mountains down into flatter agricultural lowlands and then to the sea via various drops, falls, pools and accumulations and postponements, surges and torrents or stagnant marshes – so too the energy landscape in the internal relativity of these objects at other scales of e.g. micro and meso.

Geographical and cosmic maps driven by the same power law relationships as that of electricity could in fact be more abstract circuit diagrams.

Functions within objects can be mapped out by gradients e.g. Voltage or resistance to flow and it is possible that mapping out internal relativity with power-law language e.g. macro Volts, micro Volts etc will produce similar activity/flow maps at many different scales for very different objects and events.

A computer could borrow these flow maps from processes at other scales and different contexts to model solutions to exchange issues within its own operational context.

This swapping about of similar topographical maps is called 'isomorphism between domains' and would enable many new technologies such as executive robotics.

At the level of an R&D project, it is the TRE knowledge representation system that makes such complex maps possible.

The power law gradients and exchanges are at work at all scales and in every medium e.g. Fajan's rules – Chemistry, Psychology – Lewin, Gravity – Newton, Astronomy – Kepler, Osmosis – Biology, electricity – Ohm.

The maps therefore would be physical/metaphysical circuit diagrams as energy transference from high to low is in all things in nature.

APPENDIX : REFERENCES TO NEW PHYSICAL THEORIES

The true physical nature of our cosmos is that it is physically chaotic at all levels and as such many of the 20th century physics theories are flawed because they were developed before the supercomputer era that could model chaos events.

Theories such as the Big Bang, 2nd Law of thermodynamics, Darwin's natural selection and other aspects of particle physics have been found to be naive, or less simple on closer inspection with modern scientific equipment that can model and compute chaotic and complex behaviours.

Telic Deterministic Chaos

Here are some science resources on universal chaos

http://www.ebook3000.com/Chaos-in-the-cosmos--The-stunning-complexity-of-the-universe_137092.html

Sprott has a gallery of natural fractals

<http://sprott.physics.wisc.edu/fractals.htm>

http://www.miguel.com/fractals_math_patterns/visual-math-natural-fractals.html

**Peter Plichta's tripartite theory of chemistry and mathematics
Some comments**

<http://freakyphenomena.com/comment/33806>

<http://uts.edu/Journals/volume-i-1997/47-book-review-igods-secret-formula-deciphering-the-riddle-of-the-universe-and-the-prime-number-codei-by-peter-plichta-rockport-ma-element-books-1997.html>

in the last chapter of Gods Secret Formula Plichta points out the relationship between chemistry and form in the lower animals and invertebrates

Structures of energy emerge from chaos by the chaos law of emergence.

At a cosmic level, there is warming as described by the Unruh Effect
<http://www.math.mun.ca/~merkli/PREPRINTS/unruh.pdf>

Dr Paul E Rowe – An attempt to restore classical physics. –measured hydrogen emerging from nothing in a vacuum – a chaos law working with aether.

In Peter Plichta's Gods Secret Formula, 1997,
<http://www.amazon.co.uk/Gods-Secret-Formula-Deciphering-Universe/dp/1862040141> the concluding chapter discusses the emergence of life forms from the mathematics and chemistry of the universe

'Complexity; life at the edge of chaos'
<http://books.google.co.uk/books/about/Complexity.html?id=77xDnidtPS8C>

This book discusses the spontaneous emergence of DNA and the eye from the scientists Stuart Kauffman and his paper 'autocatalytic self-organising polymers' models the emergence of DNA and Brian Goodwin's work on acetabularia models the spontaneous emergence of the eye.

'The Big Bang Never Happened: A Startling Refutation of the Dominant Theory of the Origin of the Universe' [Paperback]
<http://bigbangneverhappened.org/>

Eric Lerner

Publication Date: October 27, 1992

A mesmerizing challenge to orthodox cosmology with powerful implications not only for cosmology itself but also for our notions of time, God, and human nature -- with a new Preface addressing the latest developments in the field.

Far-ranging and provocative, *The Big Bang Never Happened* is more than a critique of one of the primary theories of astronomy -- that the universe appeared out of nothingness in a single cataclysmic explosion ten to twenty billion years ago. Drawing on new discoveries in particle physics and thermodynamics as well as on readings in history and philosophy, Eric J. Lerner confronts the values behind the Big Bang theory: the belief that mathematical formulae are superior to empirical observation; that the universe is finite and decaying; and that it could only come into being through some outside force. With inspiring boldness and scientific rigor, he offers a brilliantly orchestrated argument that generates explosive intellectual debate.

Interdimensional Cosmology

Time and Space: two insuperable limitations or new perspectives for the technocratic societies?

Although time and matter's gravity in my opinion are one and the same thing – the possibility of timelessness in human society and timeless travel could open the door on a new era of social interaction and social meaning.

There are precedents in the ancient records for such an evolved society and cosmology.

My own interest in time travel led me to understand what the ancients already seemed to know.

I had been researching issues of time travel cosmology for a few years and had noted that backwards time travel might be far easier than forwards time travel – for reasons, which I explain below in my cruise liner analogy.

I had been looking into some of the mechanics necessary for teleportation and forward time travel and had developed a general systems theory which could have been used as a framework for such forward transmissions.

At its heart it is based upon the idea that although there is an infinity of objects and events in the universe – an infinity of combinations that are too great for any computation we know – there is actually a limited and fixed number of the kind of events that can take place in the cosmos. There is a limited and closed number of processes/transactions that can happen during every event in the Universe.

Using a Boolean analogy – I modelled a short series of universal and law-like events in a unique arithmetic that had a fixed and finite number for zero and infinity.

I reasoned for the purposes of time/space travel that given any known future energy landscape or distant context as a frame of reference – such time-space transmissions encoded using this new language and sent from our own time space could be recalibrated according to their new target context without distortions produced by unknown zeros and equations and distortions relating to infinity.

These are major steps away from Goedel's Logical numbering paradox and the infinite recursion and paradox of computation [Halting problem] noted by Turing.

I then developed a time space cosmology that seemed to have parallels with the ancient record although I arrived at those anciently described ideas by my own contemporary route.

Our accepted understanding of time and the cosmos is probably false. An understanding of the time, matter and gravity concepts (on the lips of abductees and 'Black Ops' scientists like Dr. Michael Wolf and the

basics of the Secret Science) agrees with my own paradigm and show us the possibility that gravity, time and mass are all one and the same. In all likelihood, it is easier to travel through time and dimensions by spinning a magnetic disk, than it is to travel between distant galaxies with never to be found 'dilithium crystals' of Star Trek.

This one issue, if true would predict that interstellar time space and intergalactic time space were not operating the same kind of time or matter as our solar system. Indeed partially materialised dark matter galaxies have been recorded. e.g. The unusual galaxy, called NGC 4625, proves the theory of constant birth and death of stars and planets and it is relatively nearby. Dr. Armando Gil de Paz of the Carnegie Observatories, Pasadena, Calif, in July issue of Astrophysical Journal Letters. "We are practically up-close and personal with a galaxy undergoing an evolutionary stage that was thought to occur only at the dawn of the universe ..."

Travelling through mountain ranges and chasms of aether and newly emerging dark matter and cosmic schisms and structural inconsistencies in the fabric of time space the ET traveller would need to effectively get above this geography to make traversing it easier.

There are indications in our modern day records that point to the understanding of timespace known to our ancients. One of the main features of interstellar travel (that was seemingly disclosed by ET's), is that they travel by pulling their destination to themselves. This doesn't sound like Star Trek does it? This is how it probably works: by taking their ships out of gravity (and therefore time) and the physical conditions of this dimension (by getting on a high mountain top of free energy at no cost to themselves), their destination seems to swirl closer towards them because distant things look closer together, i.e. city blocks look very close together from Earth's orbit. Then, they then drop more easily onto their destination, with the minimum of physical adjustment, but using the maximum of free energy.

This kind of ET interstellar travel may operate on the principle that mass and matter is directly related to the amount of gravity measured. This relationship between gravity and time has been observed by humanity.

The 4 atomic clocks experiment by Hafele and Keating also proves a Hennessey hypothesis that time is a field effect of mass – that time is a gravity wave. The clocks at high altitude are further from the centre of gravity of the Earth and therefore experience less time.

The 4 atomic clocks experiment by Hafele and Keating may also prove Einstein's ideas too – but the same experimental data fits and adds empirical weight to the Hennessey Model – that a gravity field is a time field. <http://www.andrewhennessey.co.uk/thenewphysics.pdf>

I propose that Time is Gravity [Hennessey] Time is directly proportional

to mass and to gravity: Gravity and time are one and the same field. The more mass, the more gravity, the more empirical time and that the spinning magnets of the electrogravity technology of e.g. Townsend Brown – anti-gravity are also capable of being anti-time machines. The less mass there is – the more energy there is – the less time there is .. and this idea is borne out by accounts of timelessness and OBE's and other people who allege encounters in the Spirit Realms.

The ancient records speak of an understanding of the kind of time space cosmology that fits with the consequences of antigravity and anti-time and depicts islands and mountains in time space.

Gulfs, mountains and canyons and rifts do appear in the universal energy seas, but these are directly driven by absolute and universal chaos, not the limited linearity of the accepted Hawking model. There are clear parallels and parables in documents like the KJV that illustrate a cosmology that is currently being related by contactees.

The Angelic worlds above our own frequency set operate on rational not irrational principles – and traditionally tend to be witnessed as more timeless where the rules of matter are easily mutated by will and abundant energy.

Here, human or other local intervention in or reversal of related and affected electrogravity and delta of change in gravitational-gradients of fluid-aether is not pre-ordained. Total reversals are impossible because the flow is always one way from the macrocosm. Although aspects of this local Dynamic are subject to our free will in our microcosmic context.

In this respect, locally constructed technology will always be struggling to attenuate macrocosmic intercession in microcosmic processes.

Where there is a paradigm of less time, more spirit and more energy - we tend to associate the Spiritualist tales of magical realms of creativity where matter is responsive to will. Artefacts are then allegedly created by our spiritual heart, not by perpetually failing circuit boards. Even the Verdants according to Philip Krapff claim to have taken their ships up the frequencies to `heaven' or somewhere near it. In UFOLOGY there are tales of the flight dynamics of alien spacecraft where abundant free energy is pumped into the hull envelope making it antigravity which causes the vehicle to rise above the concrete properties of local mass in this our density or Cosmos. It climbs the mountains of energy and time space.

The more energy, the less mass, the less gravity, the less time there is ... and inversely, the more mass, the more gravity, the more time there is – and this fits in with the notion of timelessness and high energy and high frequency that we have already garnered from tales of the spirit worlds in books such as *The Life Unseen* by Anthony Borgia, and *The Life Elysian* by Robert James Lees.

It also fits in with the sometimes sinister cosmology of the faerie realm portrayed clearly in collected folklore tales and anecdotes by ethnologists such as; M M Banks in *British Calendar Customs*, vol 1-3, 1937, Grimm's *Teutonic Mythology*, Grimm, 1901 and also the Rev Robert Kirk in the *Secret Commonwealth of Elves, Fauns and Faeries*, 1697AD.

In those tales of faerie abduction that folklore is so replete with, the abductee is usually only gone for a short length of time in the faerie land but usually seven years have gone by in the world of mankind.

This suggests that the world of mankind is actually operating on a much higher frequency of evolutionary scale than the world of faerie.

The cycles of our seasons go round and round and round in fast-forward compared to the abducted soul in the faerie realm stuck in relative stasis for sometimes what only appears to be a few hours.

The realm of Angels therefore is operating at a much higher frequency than all of this. Terra Firma is faster than faerieland, but relatively speaking in relation to our own time space and cosmos the Angelic realm is way way up a frequency mountain and possessing the perspective to diminish distant events in this our time space to seeable and foreseeable reality. In some way our lives and futures appear mapped out to them. Theirs the greatest heights and love and timeless perspective.

Mass in our density or plane will also produce harmonic images or dimensions/resonances of itself that we have noted in the human records as Mythic or Theological e.g. Heavens, Planes, Spheres, Continuum, Nirvana etc

In the KJV bible, an old document, there are hints of a whole realm and state of being that is quite independent of what we take for normality. In some of the quotes that follow it appears that a very realistic cosmology and philosophy of time was being operated anciently that bears little resemblance to the world of 20th Century Stephen Hawking.

Isaiah 2:2 And it shall come to pass in the last days, that the mountain of the LORD'S house shall be established in the top of the mountains, and shall be exalted above the hills; and all nations shall flow unto it.

With or without Einstein, Angels have been coming and going throughout the millennia on this planet and often showing that they have advanced prophetic knowledge of events that are going to occur as if they are already written.

I think that these events in our plane or dimension are written such that they can be largely seen from other dimensions and high energy time zones and that we as people are always looking at known yesterdays when we act out these parts we inhabit here – albeit with our own unique interpretations.

The spiritual issue for participants here isn't so much that the mechanics of the Earthly play are known it is in the unique interpretation

of the script, and the performance, dedication and focus of the actors. This next bit proposes the idea that predetermination in our lives is partially true.

There are therefore very real possibilities that our lives can live in all sorts of timelessness and that we can move through these time zones to take part in all sorts of creations and matter that are high energy and more responsive to our creative will.

Forward time travel within our own density without angelic co-ordination according to my own research is possible, although more difficult than merely going back over old ground.

All of the matter of this density or cosmos that we inhabit is like a bubble in the foam of a massive multiverse. Living in this cosmos is like being on an ocean liner that has a forward momentum and we can often predict where it is going to be, quite accurately in the short term. Long-range time travel with storms and undercurrents in the etheric ocean of the multiverse makes knowing where to jump onto our future ships position less likely to accurately predict from within our own time space perspective.

If we mistakenly predict and project the future winding course of time space relative to ourselves we may accidentally end up in some muddy creek in a drifting island pocket in our cosmic ocean.

(that may well not be a mountaintop but a hell or at best a zone of purgatory next to hell.)

We begin our voyages through time defined in terms of our local cosmos whether physically or energetically or spiritually.

Everything around us is intimately interlinked on all scales in context. The ocean liner is made out of iron and steel and the passengers of carbon because we inhabit a tertiary star system full of more complex tertiary matter and that the core components of iron and carbon are central to the chemistry of the central planets and also the oxidative metabolism of most of its biological life forms.

The physical chemistry that spontaneously organizes to emerge new life is mimicked and duplicated by the intellectual capacity of human life. Transfers between high and low duplicate the laws of organization and bonding in chemistry by crystallizing and emerging social organizations and social adaptations. These emergent social structures are driven by the context of the environment and any other interference or constraint.

Indeed the emulation of the physics of nature and nurture in Christ's New Covenant is likened to an efficiently performing biological vine in John 15 and I write about this in my paper:

THE ET LAW AND THE WAY OF LIFE

<http://www.andrewhennessey.co.uk/xbriefing/page60.html>

The appearance of matter and our integration with it is an illusion

however, but the matter works its own logistics out via the dualistic processes within it e.g. opposites; entropy and disintegration operating against the law of emergence and order out of chaos. Fission or breakdown or combustion operates against Fusion and spontaneous growth.

Order and Chaos is a secret school and illuminati motto and one of the most abandoned and discarded truths within the charade of human science. The chaos law of Emergence is the buried key to eternity and the buried truth of our free lunch, free energy and free souls.

e.g. Just try to find Dr Stuart Kauffman's paper 'Auto catalytic Self-Organizing Polymers' – the spontaneous DNA for nothing anti-Darwin scientific discovery. [Originally at www.santafe.edu]

Our cruise liner time space with all its components and ingredients has its own forward momentum on the ocean of an infinite continuum between other seas and other bubbles and other higher dimensional harmonics and echoes of these.

The realm of our Angels sits high up in the frequency mountains above this, our density.

From what we know therefore we can work out that if we were high up on a frequency mountain somewhere – we can see where our time wave and cruise liner was going from a totally different perspective.

I do not believe that every small detail of how we react at breakfast time on the cruise liner is already known, or exactly what weather or preference of clothes one might favour on that day is known, written down and set down in advance for us whether we like it or not.

We were created in my opinion truly and totally free to choose.

Generally, though although there are many other Cruise liners and many other kinds of ship, the course, cargo manifest and itinerary of our cruise liner is already set on our "cruise ship earth/solar-system".

This is because all material things we wish to incarnate and locate into are governed by the rules of materials and their interactivity.

What is on life's menu and the selection to be offered up is already written in advance, perhaps already governed by the presence or absence of harvests and produce that were themselves driven or excluded by environmental conditions and that what the onboard entertainment is going to offer up is already part of the ships itinerary – a form of entertainment whose pessimism or austerity or optimism and frivolity is itself influenced by the relative abundance of the wheat/staple harvest or energy/fuel demand that is directly driven by warming or cooling from the presence or absence of sun spot activity.

We can select from these things or choose to refuse in my opinion.

Why, though would we as higher density spirits buy into a life that we already know all about and can see laid out from a different perspective for that might be like seeing a rerun of a film all over again.

The adventure in my opinion is in the application, interpretation and re-interpretation of the obstacles and the details that we choose to use or create.

I believe that every soul that buys a ticket/DNA for this cruise liner gets a book of outlined drawings or scripts based on the part of the ship that they occupy for them to color in, but that whether we produce a Da Vinci or Cartoon at the end of the process is up to ourselves.

To a great extent though the activities and details of the journey of the cruise ship are very predictable based on the ships manifest, supplies, necessary crew and passenger list.

It is in this model entirely possible to get above the local geography of this time space and view the topology from a great height.

Matthew 4:8 Again, the devil taketh him up into an exceeding high mountain, and sheweth him all the kingdoms of the world, and the glory of them;

9 And saith unto him, All these things will I give thee, if thou wilt fall down and worship me.

10 Then saith Jesus unto him, Get thee hence, Satan: for it is written, Thou shalt worship the Lord thy God, and him only shalt thou serve.

11 Then the devil leaveth him, and, behold, angels came and ministered unto him.

Luke 4:5 And the devil, taking him up into an high mountain, shewed unto him all the kingdoms of the world in a moment of time.

It seems that from all the lore we know, whether from the older Religions or the pagan or Spiritism - that Angels dark or light can find vantage points over the time space of the cruise liner in which we are being conveyed.

There are also clear accounts of prophetic visions from e.g. the Brahan Seer in Scotland in the 17th Century who foretold all sorts of changes in Scotland, and also from 800BC where the prophet Isaiah clearly foretold of the coming of Christ.

There are also other accounts of time space tinkering by the Greys in UFOLOGY where perhaps during some stage managed process with a stage hypnotist aboard the cruise ship memories of our time out have been erased and hastily spliced together like some bad video editor to give us Déjà vu. Not a seamless job by the aliens.

Sometimes on cruise ship Earth the ships passengers matrix radio will tell us that there is to be some Bingo at the swimming pool, and many people unconsciously pick that up and go there – thereby generating a synchronicity where they meet all sorts of people from other walks of life in the process who also like Bingo too.

In the realm of Angels and in the life and Great work of the Saints and Angels, many come down from the great heights of these mountains

and vantage points and often we dine with Angels unawares at breakfast. These enigmatic people never seem to have the right cabin number, or have differing credentials and they never seem to be where they should be, for in truth they are not really of the places that they appear to come from.

Angels though are not bound by the rules of cruise ship Earth or its dark alien dependents and farmers and don't really care about the energy of breakfast as a necessity of any kind of energy that they must intake.

Technically Beings of higher levels of energy could be in stealth mode relative to here.

John 3:8 The wind bloweth where it listeth, and thou hearest the sound thereof, but canst not tell whence it cometh, and whither it goeth: so is every one that is born of the Spirit.

Acts 27:22 And now I exhort you to be of good cheer: for there shall be no loss of any man's life among you, but of the ship.
23 For there stood by me this night the angel of God, whose I am, and whom I serve,
24 Saying, Fear not, Paul; thou must be brought before Caesar: and, lo, God hath given thee all them that sail with thee.

In Christ's teachings, and in particular the fact that almost every reference to His divine origins is so often and so obviously hacked and sabotaged by edit after edit throughout the ages of mankind – we can still see some evidence of the fact that He could see down the timelines of all of those in His vision.

John 21:18 Verily, verily, I say unto thee, When thou wast young, thou girdedst thyself, and walkedst whither thou wouldest: but when thou shalt be old, thou shalt stretch forth thy hands, and another shall gird thee, and carry thee whither thou wouldest not.
19 This spake he, signifying by what death he should glorify God. And when he had spoken this, he saith unto him, Follow me

Matthew 26:34 Jesus said unto him, Verily I say unto thee, That this night, before the cock crow, thou shalt deny me thrice.
Matthew 26:73 And after a while came unto him they that stood by, and said to Peter, Surely thou also art one of them; for thy speech bewrayeth thee.
74 Then began he to curse and to swear, saying, I know not the man. And immediately the cock crew.
75 And Peter remembered the word of Jesus, which said unto him, Before the cock crow, thou shalt deny me thrice. And he went out, and wept bitterly.

The other realities of Christ's teachings that make up part of the Gospel are the many miracles of energy and will over matter; in water to wine,

food from energy, the rescripting of blind eyes, the healing and material transformation by energy and spirit of all sorts of disease.

There are many other doctrines and schools on planet Earth that offer similar powers and godlike abilities, and it can be seen in the activity of alien beings and their abilities to proceed through the walls of our cruise ship reality, some to heal and others to wither that energy invested into or taken out of people and objects can change their states for good or ill.

Some Grey abductees for example complain of incurring serious back injuries and other ailments.

Others claim healing by Greys and other kinds of Beings from the stars in our Cosmos.

For Beings from the Angelic realms and for Christ is the promise of real power and real responsibility.

Matthew 21:21 Jesus answered and said unto them, Verily I say unto you, If ye have faith, and doubt not, ye shall not only do this which is done to the fig tree, but also if ye shall say unto this mountain, Be thou removed, and be thou cast into the sea; it shall be done.

Mark 11:23 For verily I say unto you, That whosoever shall say unto this mountain, Be thou removed, and be thou cast into the sea; and shall not doubt in his heart, but shall believe that those things which he saith shall come to pass; he shall have whatsoever he saith.

Angelic powers do not operate by the rules or needs or dependencies or investments of this cosmos. Beyond our idea of time and matter are works of massive powers and social healing and creation.

Mark 4:37 And there arose a great storm of wind, and the waves beat into the ship, so that it was now full.

Mark 4:39 And he arose, and rebuked the wind, and said unto the sea, Peace, be still. And the wind ceased, and there was a great calm.

Mark 4:41 And they feared exceedingly, and said one to another, What manner of man is this, that even the wind and the sea obey him?

Also, if Angels and other travelers need the tokens to operate our Cruiseship reality, then they can cause them to manifest from anywhere in a respectful manner.

Matthew 17:27 Notwithstanding, lest we should offend them, go thou to the sea, and cast an hook, and take up the fish that first cometh up; and when thou hast opened his mouth, thou shalt find a piece of money: that take, and give unto them for me and thee.

In Gospel teachings – which is what I am more familiar with – is demonstrated an advanced chaos cosmology, [knowledge of which is also used by Nigel Kerner in his disclosure book on Grey farming cosmology called *The Song of the Greys*], that one day the bubble in the

multiverse foam that is the density of Cruiseship Earth will one day burst in the natural course and order of things.

Isaiah 34:4 And all the host of heaven shall be dissolved, and the heavens shall be rolled together as a scroll: and all their host shall fall down, as the leaf falleth off from the vine, and as a falling fig from the fig tree.

Matthew 24:35 Heaven and earth shall pass away, but my words shall not pass away.

In an endless multiverse of bubble upon bubble in a fractal and vast foam at all and every scale there are infinite roads and paths full of God, portals between and through bubbles at all scales. There will be wannabe gods and energy hungry beings though not all these paths in my opinion lead to the perfection of family and love and communion archetypally illustrated by Christ.

Ultimately – given the enormity of magnitude and scale that abundantly supplied and abundantly powerful beings can operate at .. it is entirely possible that a couple of enormous hands could lift our cruise ship out of the water.

The love of community and of the heart operates quite independently of scale and magnitude however, and the eternal fig tree of which our burdened cruise ship is only a small part has many mansions and palaces and mountains and temples at all scales for all scales of beings.

Revelation 7:1 And after these things I saw four angels standing on the four corners of the earth, holding the four winds of the earth, that the wind should not blow on the earth, nor on the sea, nor on any tree.

The television that we pay so much for in our ships cabin on cruise ship Earth never seems to stop telling us what is possible and impossible. Yet it is more than ever apparent that with love and the will to act lovingly at any scale or order and magnitude of energy – all things seemingly incredible have to be possible for us and others: many other things, exciting and fulfilling things beyond our human and often deliberately poisoned imagination.

This too was part of Christ's promise to us.

ENDNOTE

"If you only knew the magnificence of the 3, 6 and 9, then you'd have the key to the universe" - Nikola Tesla (Sep 1899)

Nikola Tesla was a very brilliant man and in some ways more informed than Einstein.

Some suggest that later in his life he became an obsessive compulsive and he had to have everything in threes or divisible by three. e.g. 3 stacks of 3 napkins on his table to eat. etc and he would only stay in a hotel room that was divisible by 3, 6 or 9 etc

His early 20th century picture of grand unity and the implications of his physics even today transcend our modern 21st century paradox-ridden failures.

Tripartite Essentialism, a grand unifying theory by Andrew Hennessey, 1991 is based on a system of three, six and nine part 'logical atoms' (Russell) whose activity models absolutely every transaction in the universe.

At its heart is six keys systems theory.

Tripartite Essentialism and its physical and metaphysical theory mirrors the missing Tesla grand unity theory of Environmental Energy – an aether-based chaos theory.