

Comprehensive Guide to Future Science Environment : Decomposing Knowledge with Inverted Paradigm Method

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.....Working at the intersections of Knowledge Management (KM) – Complexity – Philosophy of Science – Theoretical / Astro Physics – Organizational Learning (OL) to develop Nature Knowledge Theory.....(Mobee Knowledge Services, 2012)

ABSTRACT :

Step-By-Step Summarized Map

➤ What is Inverted Paradigm Method (IPM) ?
➤ Background Information of Reverse Engineering
➤ Knowledge Discovery Metamodel – based Inverted Paradigm Method (IPM)
➤ The step-by-step comprehension map of KDM – based Inverted Paradigm Method (IPM) : • Infrastructure Layer : involving the solid and robust infrastructure of our Knowledge system to be reverse engineered through Inverted Paradigm Method (IPM) : ❖ Human System Biology-based Knowledge Management (HSBKM) model framework - ❖ Mobee Knowledge Competency Capability Maturity (MKCCM) model as KM metrics - ❖ MOBEE KNOWLEDGE TAXONOMY OF KNOWLEDGE ASSESSMENT : Dynamic Formative Assessment of Nurture Knowledge Management Dynamic Formative Assessment of Nature Knowledge Management Pasive Normative Assessment of Knowledge : Knowledge Audit ❖ KM 2.0 BASIC VISUAL MAP

- **Resource Layer** : represents the operational environment of the existing system

- ❖ (Non) DIKW continuum model
- ❖ “Knowledge is the edge of Science “
- ❖ “MOBEE KNOWLEDGE CoP” – <http://mobeeknowledge.ning.com>
- ❖ Knowledge
- ❖ Nature Knowledge Continuum model
- ❖ Nature Knowledge Theory (NKT)

- **Program Elements Layer** : consists of the code and action packages :

- ❖ Consciousness Element Factor (CEF)
- ❖ Fabric of Universe
- ❖ Inverted Paradigm Method (IPM)
- ❖ Knowledge Interface (KI)
- ❖ Language of Knowledge

- **Abstractions Layer** : represents resulting domain and application abstractions :

- ❖ “duo-entity-force” (DEF) boson particle
- ❖ k – Constant
- ❖ Knowon
- ❖ Knowledge Value (KV) Measurementtm
- ❖ Decomposing Nature Knowledge with Inverted Paradigm Method : Overview Results
- IMPACT OF HUMAN SYSTEM BIOLOGY - BASED KNOWLEDGE MANAGEMENT (HSBKM) MODEL FRAMEWORK ON THEORETICAL PHYSICS

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- **Applications in practice** : Some of our selected statements (within time period Oct, 2011 through April, 2012) regarding the post results of our study above mentioned : (containing 38 statements)

1.“We are Knowledge Management (KM) - regulated by Nature (“natural world”) , and, by nature (“character or kind”) we are Knowledge Management (KM) model”....

2.

3. etc

39. *The Road to Nature Knowledge through Knowledge – Value (KV) measurement :*

*“We are not human beings on a spiritual journey. We are spiritual beings on a human journey.”-
Stephen Covey*

“Reality is merely an illusion, albeit a very persistent one.” - Albert Einstein

....“I think the next century will be the century of Complexity.” - Stephen Hawking

..... Dear Hawking, it seems the next century will be the century of Knowledge.” - Md Santo -

<http://bit.ly/tzBu2u>

- **What is Inverted Paradigm Method (IPM) ?** – (or “Basic Science derived from Applied Science”), a kind of “reverse engineering” through Knowledge intensive organized systematically in term of their Taxonomy – Metadata management as well as their model framework . The essence of conventional or classical scientific mindset shown by probability-based step-by-step “deducto – hypothetico – verificative” way of thinking. But, within “Inverted Paradigm Method (IPM)” totally change in opposite direction. It is called as possibility-based “reverse engineering”, “evidence-based” or even “gnosis”. The trend using IPM with its variations is prominently exposed since the early 21th century, by the fact that the scientific world occasionally suffering from the “syndrome of the End of Science”, a syndrome where Science get difficulties in finding answer to many human complex problems. IPM in essence using “Top – down approach”, the approach in which we traces the histories from the “top down”, that is, backward from the present time. Other than that also, because within Data-Information-Knowledge-Wisdom (DIKW) continuum, Knowledge (in broad meaning) epistemologically behaving higher level than the behavior of D-I level

➤ **Background Information of Reverse Engineering**

Reverse engineering is the [process](#) of discovering the technological principles of a device, object, or system through analysis of its structure, [function](#), and operation -

http://en.wikipedia.org/wiki/Reverse_engineering

"**Reverse engineering** is the process of analyzing a subject system to create representations of the system at a higher level of abstraction."^[6] It can also be seen as "going backwards through the development cycle".^[7] 255–268. [doi:10.1016/S0010-4485\(96\)00054-1](#). - (6) [△] Chikofsky, E.J.; J.H. Cross II (January 1990). "Reverse Engineering and Design Recovery: A Taxonomy in IEEE Software". *IEEE Computer Society*: 13–17. (7) [△] Warden, R. (1992). *Software Reuse and Reverse Engineering in Practice*. London, England: Chapman & Hall. pp. 283–305.

Although UML (Unified Modelling Language) is one approach to providing "reverse engineering" more recent advances in international standards activities have resulted in the development of the **Knowledge Discovery Metamodel (KDM)**. This standard delivers an ontology for the intermediate (or abstracted) representation of programming language constructs and their interrelationships.

Knowledge Discovery Metamodel (KDM) is publicly available specification from the [Object Management Group \(OMG\)](#). KDM is a common [intermediate representation](#) for existing software systems and their operating environments, that defines common [metadata](#) required for deep [semantic integration](#) of [Application Lifecycle Management](#) tools -

http://en.wikipedia.org/wiki/Knowledge_Discovery_Metamodel

Object Management Group (OMG) is a [consortium](#), originally aimed at setting [standards](#) for distributed [object-oriented](#) systems, and is now focused on modeling (programs, systems and business processes) and model-based standards -

http://en.wikipedia.org/wiki/Object_Management_Group

➤ **Knowledge Discovery Metamodel – based Inverted Paradigm Method (IPM)**

KDM – based Inverted Paradigm Method (IPM) aiming as the standard delivers an ontology for the abstracted representation of the outcome of our Knowledge Management model framework as applied science for the benefit of Theoretical Physics as basic science. Our models are Human System Biology-based Knowledge

Management (HSBKM) model framework and Mobee Knowledge Competency Capability Maturity (MKCCM) model as KM metrics.

- **The step-by-step comprehension map of KDM – based Inverted Paradigm Method (IPM)** applied to HSBKM model framework as applied science for the benefit of Theoretical Physics as basic science had been demonstrated as follow :

Infrastructure Layer : involving the solid and robust infrastructure of our Knowledge system to be reverse engineered through Inverted Paradigm Method (IPM) :

- ❖ **Human System Biology-based Knowledge Management (HSBKM) model framework** - <http://bit.ly/lx3GbA> and <http://bit.ly/pKAO8U>
- ❖ **Mobee Knowledge Competency Capability Maturity (MKCCM) model as KM metrics** - <http://bit.ly/lx3GbA> <http://bit.ly/e7HCoM> (pp 5-7 and pp 61-64)
- ❖ **MOBEE KNOWLEDGE TAXONOMY OF KNOWLEDGE ASSESSMENT** :

➤ **Dynamic Formative Assessment of Nurture Knowledge Management**

1. Mobee Knowledge Enterprise *Taxonomy Metadata Management* :
 - Simplified form - <http://bit.ly/hU7fjM> - “MobeeKnowledge Site Map & Taxonomy Metadata Management” (pp 4 – 5)
 - Full type form - <http://bit.ly/ypTDLL> - “MOBEE SITE MAP (FILE PLAN) AND TAXONOMY – METADATA MANAGEMENT FOR EFFECTIVE CONTENT MANAGEMENT SYSTEM” (Source : <http://mobeeknowledge.ning.com/forum/topics/deriving-organizational> - “Deriving Organizational Learning Map from Corporate Taxonomy Metadata Management”)
2. Mobee Knowledge KM Measurement – Evaluation – Metrics - <http://bit.ly/e7HCoM>
3. Summary of Mobee Knowledge KM Metrics - <http://bit.ly/f3hf1K>
4. “Emerging KM” comprising Sub-Folders “KM Metrics-Maps Diagrams” - <http://bit.ly/bROikS>
5. “Business Norms KM Link” (Guide to MobeeKnowledge KM business policy) - <http://bit.ly/gFg5wY>

➤ **Dynamic Formative Assessment of Nature Knowledge Management**

- <http://bit.ly/rvDQMO> - “Knowledge Value (KV) Measurement” and/or <http://bit.ly/s9ZNqR> - “Basic structure of Human System Biology-based Knowledge Management (HSBKM) model framework”

➤ **Passive Normative Assessment of Knowledge : Knowledge Audit**

- Knowledge Analysis –(see this Document : “Component of Knowledge Audit”- pp 15 – 16) or <http://bit.ly/e7HCoM> (see pp 2 – 4) : K – Needs Analysis, K – Inventory Analysis and K – Flows Analysis

- Knowledge Mapping –(see this Document : “Component of Knowledge Audit”- pp 15 – 16) or <http://bit.ly/e7HCoM> (see pp 2 – 4) : K - Mapping
- ❖ **KM 2.0 BASIC VISUAL MAP** - <http://bit.ly/s4USV0>

Resource Layer : represents the operational environment of the existing system

- ❖ **(Non) DIKW continuum model** - DIKW stands for *Data – Information – Knowledge – Wisdom* continuum representing the evolution of scientific mindset methodology since 17th century as well as representing the evolution of Knowledge Management (KM) in three generations which is adopted by many KMers until the end of 20th century / beginning era of 21th century
- ❖ **“Knowledge is the edge of Science”** - Knowledge within Science continuum located in grey area and there should be shifting paradigm of Knowledge that will open towards new era in which Scientific Knowledge, a term where Knowledge treated as object, could becoming “Knowledgeable Science”, a term where Knowledge treated as subject
- ❖ **“MOBEE KNOWLEDGE CoP”** – <http://mobeeknowledge.ning.com> - as our Knowledge – repository comprised of various Knowledge – base that could be learned as learning resources site through the site map including via social and/or tags bookmarking - <http://www.delicious.com/mobeeknowledge> on our emphasized issues. Other sources could be reached via our public and global profile : <http://gravatar.com/mdsanto>
- ❖ **Knowledge** - by eclectic definition (choosing what is best or preferred from a variety of sources or styles, within Nature Knowledge Theory™ context), human Knowledge is the output of human knowing tools, evolved as emergent property, having consciousness inside human being as complex system, alive and behaving as subject with freewill, contrary with Data and Information exist outside human being, non-alive and behaving as object only. By giving broad meaning or apart from DIKW continuum model, human Knowledge is the integral part of broad Nature Knowledge (Knowledge of Nature). As consciousness attributed, Knowledge considered having potential as independent to SpaceTime (IST) contrary with the other fabrics, Matter and Energy which are Dependent to SpaceTime (DST)
- ❖ **Nature Knowledge Continuum model** – Knowledge generated from Nature / Universe spanning from “duo-entity-force” (DEF) boson particle containing consciousness element factor (CEF) with Knowledge Value (KV) Measurement = 10^{-38} (Planck Number) within quantum level through higher level of Nature Knowledge within Classical Physic-Biological world to human being with Max Possible KV = 9.00) *en route*

toward beyond human through infinity. Nature Knowledge Continuum rooted on paradigm that *"The Universe or the Nature Knowledge is the source and center of Consciousness"* rather than *"Mind Brain or Human Being is the source and center of Consciousness"* as derived from DIKW continuum model

- ❖ **Nature Knowledge Theory (NKT)** - is a theory developed and based on adoption to paradigm of *"The Universe or the Nature Knowledge is the source and center of Consciousness"* rather than *"Mind Brain or Human Being is the source and center of Consciousness"*. Nature Knowledge Theory (NKT) considering the Universe as an animate and psycho-somatic being. *We believed the development of NKT model framework and its derivatives will facilitate the processes on how we will be able to unify general relativity and quantum mechanics toward Theory of Everything (TOE).* The basic consideration in using NKT based on simple rational of human living reality, ... *"The Universe knows something we don't. And it acts on cosmic scales".....*

Program Elements Layer : consists of the code and action packages :

- ❖ **Consciousness Element Factor (CEF)** – factor inside "duo-entity-factor" (DEF) Known – Graviton boson particles considered as obtaining consciousness element with Knowledge Value (KV) Measurement = 10^{-38} (Planck Number) within animate and/or psycho – somatic Universe
- ❖ **Fabric of Universe** – within Nature Knowledge Theory, *Knowledge* which is Consciousness attributed, for the first time clarified as one of the fundamental structure or fabric of Universe beside *Matter* and *Energy* as well as having traits to be Independent to SpaceTime (IST) contrary with *Matter* and *Energy* which are Dependent to SpaceTime (DST)
- ❖ **Inverted Paradigm Method (IPM)** – (or "Basic Science derived from Applied Science"), a kind of "reverse engineering" through Knowledge intensive organized systematically in term of their Taxonomy – Metadata management as well as their model framework . The essence of conventional or classical scientific mindset shown by probability-based step-by-step "deducto – hypothetico – verifactive" way of thinking. But, within "Inverted Paradigm Method (IPM)" totally change in opposite direction. It is called as possibility-based "reverse engineering", "evidence-based" or even "gnosis". The trend using IPM with its variations is prominently exposed since the early 21st century, by the fact that the scientific world occasionally suffering from the "syndrome of the End of Science", a syndrome where Science get difficulties in finding answer to many human complex problems. IPM in essence using "Top – down approach", the approach in which we traces the histories from the "top down", that is, backward from the present time. Other than that also, because within Data-Information-Knowledge-Wisdom (DIKW) continuum, Knowledge (in broad meaning) epistemologically behaving higher level than the behavior of D-I level

- ❖ **Knowledge Interface (KI)** - is a terminology of Human and/or Nature Knowledge variable derived from Human System Biology Knowledge Management (HSBKM) model framework acting as the function of Knowing Tools producing Nature or Human consciousness founded either in Human Knowledge (Individual KM), Organizational Knowledge (Nurture / KM) and Nature Knowledge respectively. Totally there are 9 (nine) KIs, 1st KI through 9th KI. Both of the KIs involved in contributing Knowledge sharing process through consciousness transfer towards (new) Knowledge evolvement in psychological phenomenon
- ❖ **Language of Knowledge** - the language used in "Consciousness Transferring Phenomenon" (CTP) with speed of entanglement by using Knowledge Interfaces (KI) as basic of the language

Abstractions Layer : represents resulting domain and application abstractions :

- ❖ **"duo-entity-force" (DEF) boson particle** - *Knowon* – *Graviton* entity as boson force we believed as the real Higgs Boson. *Knowon*, independent to SpaceTime (IST) as our proposed 5th fundamental force representing "psychic / consciousness mediating particle" counterparting with *Graviton*, dependent to spacetime (DST) as 4th fundamental force representing "somatic mediating particle". DEF is IST-DST superposed boson force representing as psycho – somatic elementary particle of animate Universe
- ❖ **k - Constant** - a constant factor generated by *Knowon* containing consciousness element factor (CEF) representing (Nature) Knowledge as fabric of the Universe to orchestrate the other two fabrics, Matter and Energy. k - constant ranging from 0.0 – 1.0 applied to Mass – Energy Equivalence or the equation $E = mc^2$ to be written as $E = k mc^2$ where k actually proportionate with c or the speed of light. k achieved as 1.0 at age of the Universe was about 370,000 years after Big Bang where Matter domination or photon era fully achieved and reached up to time before the evolution of living – biological system taken place, and then after that " k " positively stable and exist gradually less and less than 1.0 The " k " = 1.0 representing the highest entropy of certain loci in the Universe
- ❖ **Knowon** - our newly proposed fifth fundamental force of Nature, discovered through top-down (reverse engineering) mechanism or Inverted Paradigm Method (IPM) applied to Human System Biology-based Knowledge Management (HSBKM) model framework within Nature Knowledge continuum in the framework of quantum level through classical mechanism level. By such evidence-based as Knowledge-generated outcome, *Knowon* is really exist as non hypothetically massless particle, because Knowledge force has unlimited range and seems do not related with or at least don't have spin quantum number as the other mediating particles considering that *Knowon* is independent to SpaceTime (IST) particle containing consciousness element factor (CEF) with Knowledge Value (KV) measurement = 10^{-38} (Planck Number) and functioning as "psychic / consciousness mediating particle" with speed of entanglement to counterparting *Graviton*, the fourth fundamental force, dependent to SpaceTime (DST) particle, as "somatic mediating particle" becoming "duo-entity-force (DEF)" boson particle (we believed as the real Higgs Boson) to give

shape of SpaceTime and giving mass feeling to particles within psycho-somatic entity paradigm of our Universe. The phenomenon of emergent property in complexity of Nature believed as the manifestation of the work by consciousness element factor of *Known* as “*Psychic (Consciousness) Mediating Particle*” within their target loci counterparting the work of Graviton as “*Somatic Mediating Particle*” in shaping SpaceTime, manifested as an entity particle supposing as Higgs Boson, instead of collaboration with other three fundamental forces of nature, strong-weak-electromagnetic forces or *Gluon, Photon, and W-Z* respectively

- ❖ **Knowledge Value (KV) Measurementtm** - is an absolute scaling ratio measuring hypothetically from “duo-entity-force (DEF)” boson particle (Graviton + Known) we believed as the real Higgs Boson with $KV = 10^{-38}$ (Planck Number) within quantum level through higher level of Nature Knowledge within Classical Physics-Biological world (Human Max Possible KV = 9.00) *en route* toward beyond human through infinity

❖ **Decomposing Nature Knowledge with Inverted Paradigm Method : Overview Results**

IMPACT OF HUMAN SYSTEM BIOLOGY - BASED KNOWLEDGE MANAGEMENT (HSBKM) MODEL FRAMEWORK ON THEORETICAL PHYSICS

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ABSTRACT Driven by experience in practising *Human System Biology - based Knowledge Management* (HSBKM) model framework and *Mobee Knowledge Competency and Capability Maturity* (MKCCM) model as our KM metrics since 2009, we succeeded in developing theoretical constructs that giving Knowledge a widened meaning as the integral part of broad Nature Knowledge continuum in consequence of *Data, Information - Knowledge, Wisdom* as DI-KW separated model continuum. Nature Knowledge is dynamically living entity continuum having potential consciousness element factor. Both within quantum physics level or classical mechanic physics level, are differentiated into infinite levels of consciousness. As KM metrics applied to Nature Knowledge continuum, we have developed concept of *Knowledge Value (KV)* as absolute scaling value ratio ranging from 10^{-38} (Planck Number) to infinity. The second KM metrics is *Mobee Knowledge* or “*k*” constant factor ranging from 0.0 – 1.0 applied to Mass – Energy Equivalence or the equation $E = mc^2$ to be written as $E = k mc^2$ under consideration that *Known*, our newly proposed fundamental force of Nature, a hypothetical massless and independent to SpaceTime (IST) particle, achieving maximum effect of $k = 1.0$ only after the end of Photon epoch or at age of the Universe was about 370,000 years after Big Bang where Matter domination reached up to time before the evolution of living – biological system taken place, and then after that “*k*” positively exist gradually less and less than 1.0 again. We are very confident that Emergent property in complexity resulting from the functional entity of *Known* as “*Psychic (Consciousness) Mediating Particle*” in collaboration and/or counterparting with Graviton as “*Somatic Mediating Particle*”

Based from our postulates we’ve mentioned, together by using Knowledge Management (KM)-driven environment Psycho – Somatic thinking paradigm phenomenon applied to Nature, and after considering the issues of *Entanglement phenomenon, Quantum Superpositioning, Redefining Knowledge and Knowledge Management, Emergent Property of Complex System, Hidden Variables, Known and its definition, Graviton and Space-Time factor in Known environment* factor respectively as keywords to comprehending, we come up to Theoretical Physics construct declaring toward *Knowledge* as fabric of Universe beside *Energy* and *Matter* with *Known* as newly proposed fifth fundamental force of Nature, a hypothetical massless and independent to SpaceTime (IST) particle to counterparting *Graviton* instead of *Gluon, Photon, and W-Z* respectively

Presented at the “*The International Conference on Mathematics and Science*” – Surabaya Institute of Technology (ITS) 12-13 October 2011 at Majapahit Hotel, Surabaya – Indonesia.

Applications in practice : Some of our selected statements (within time period Oct, 2011 through April, 2012) regarding the post results of our study above mentioned :

1.*"We are Knowledge Management (KM) - regulated by Nature ("natural world") , and, by nature ("character or kind") we are Knowledge Management (KM) model"....*
2.*We believed, the big mistake in Physics including to finding out Theory of Everything (TOE) as the ultimate symbol of Science, rooted from the reality that we only considered Universe as an inanimate. We should consider Universe as an animate as well as psycho – somatic being.....*
3.*Our Knowledge Management (KM) – generated Physics constructs discovery, covering the attributes of Knowon, the fifth Fundamental Force, "k" constant ranging 0.0 – 1.0 for $E = k mc^2$ and Knowledge Value (KV) measurement for Nature Knowledge continuum of the Universe.....*
<http://bit.ly/wOIXq6>
4.*k – constant approaches 0.0 such as the ecosystem of Higgs Boson, will make all scientific efforts practically a "mission impossible" . We dare to say, almost impossible to any scientific effort goes beyond "our illusion dream land" with "k" = 1.0 to leap into "absolute dream land" with "k" less than 1.0 or practically = 0.0 considering that "..... space-time is only the notion of human being in the universe to accommodate the existence of Matter and Energy.....*
5. *The intensity of interaction among 1st Knowledge Interface to 6th Knowledge Interface along with the dynamics of consciousness element factor (CEF) of "duo entity Graviton – Knowon" as Universe DNA across the Universe making Nature's Laws may vary across the Universe and finely-tuned for the existence of life....*
6. *If space were not continuous (<http://www.scientificamerican.com/article.cfm?id=is-space-digital> : Scientific American - By Michael Moyer | January 17, 2012) , change your paradigm by thinking that our (smart) Universe is really a living reality of Psycho – Somatic entity body the same as the way we look at human body comprising of Body – Mind – Soul . In this circumstance, our smart Universe is an ultimate huge creature among other creatures or other Universes (MultiUniverse).....*
7. *Black Hole (BH) is the model miniature of "Oneness Universe", the Universe before the Big Bang (BB). It is called "Oneness" not either "Unity" or "Entity" Universe considering BH is Independent to SpaceTime (IST). Inside BH, is the state of "Absolute Singularity" where the fifth fundamental force, we proposed the term "Knowon" for it, dominating the other 4 fundamental forces before BB or inside the BH. At the BB when SpaceTime was born, the IST Knowon functioning as "psychic / consciousness mediating" massless particle counterparting each other with Dependent to SpaceTime (DST) Graviton, the fourth fundamental force functioning as "somato mediating" particle,*

both becoming “duo-entity-force” particle which we believed as superposed Higgs Boson giving “the feeling” mass to the particles in the Universe....

8. reality that assumming K is consciousness, it means interaction with the environment is not the matter of electromagnetism phenomenon such in sending information through telco devices or people speaking face-to-face. K as consciousness requires that we should treat K as in quantum state able to behaving “entanglement” action and “superposition traits” (eg Scientific Knowledge vs Knowledgeable Science). The “entanglement” ability making the phenomenon is not “spooky action at a distance” any more as Einstein mentioned, but for us it is “endowment action at a distance”. It is very possible if we assumming that K is independent to SpaceTime.....
9. space-time is only the notion of human being in the universe to accommodate the existence of Matter and Energy. (Md Santo – <http://bit.ly/umS2Xi> - Knowledge Value (KV) – “k” Constant relationship diagram generated from Human System Biology-based Knowledge Management (HSBKM) model framework)....
10. The features of Dependent to SpaceTime (DST) in Graviton and Independent to Space Time (IST) in Knowon within Higgs Boson particle representing the prominent quantum superposition behavior of Higgs Boson particle.....
11. Nature Knowledge representing quantum and classical Nature Consciousness as the fabric of Universe beside Energy and Matter with Nature Knowledge Value (KV) as scaling absolute ratio ranging from 10^{-38} (Planck Number) through infinity.....
12. ... HSBKM – generated method (through KV and “k” constant factor as the metrics) already revealed the behavior as well as some features of Higgs Boson instead of their function in giving mass to particles.....
13. considering the Universe is an ocean of Energy DST altered by ocean of Knowledge IST selecting different target loci throughout Universe as well as Graviton factor considered as gravitational energy in shaping space and time, therefore “it is necessary to invoke the consciousness element factor (CEF) of Knowon at various level of consciousness in many Nature loci to light the blue touch paper and set the Universe going” regardless it is IST by nature to reach the target loci in the Universe. This statement seems contradictory with Stephen Hawking and Leonard Mlodinov statement in their book “The Grand Design, Bantam Books – New York, 2010 page 180”.....
14. We strongly suggest Knowon as the fifth fundamental forces of nature which is independent to Space-Time and featuring as hypothetical massless particle, should be the strong candidate of the “hidden variable” thanks to its quantum consciousness as psycho (consciousness) mediating particle counterparting Graviton factor as somato mediating particle to bridging the gap between quantum and classical mechanics.....

15. The mechanism by which Knowon acting as “Psychic / Consciousness Mediating Particle” is through Entanglement interaction mechanism with consciousness as the media independent to Space-Time. It is genuinely phenomenon evidence for Indonesian people quoting “Far sight but near at hearts” (“Jauh dimata dekat dihati”) thanks to independent Space-Time Entanglement mechanism. It's not “spooky action at a distance” any more as Einstein mentioned, but it is really “endowment (for human being) action at a distance”....
16. Let me clarify the meaning of “unconsciousness” (adjective) and/or “unconscious”(noun). Within narrow meaning or derived from DIKW model, for example in clinical symptomatology, it means no response to senses and unawareness of mind brain response to environment. But in broader meaning within context of Nature Knowledge model, including human knowledge, where consciousness is the attribute of knowledge, the word of “unconsciousness” is not recognized
17.Knowledge Interface – based Communication Platform needed to communicate with alien intelligence
: <http://t.co/IzqPEXmn> (Demystifying Human Conversations : Knowledge Interfaces as Knowledge Language within Knowledge Ecosystem). On the assumption that <http://linkd.in/yD1qZx> - Nature Knowledge Theory could be applied in cosmic scale under the paradigm : “The Universe or the Nature Knowledge is the source and center of Consciousness” rather than “Mind Brain or Human Being is the source and center of Consciousness” paradigm, therefore 3 x 3 matrix diagram of 1st to 9th Knowledge Interfaces (KI) could be developed in the (near) future by means of Technology, Communication Theory, Psychology, Psychiatry, Sociology and others field of sciences needed as language communication platform with the alien intelligence community.....
18.One of our “primitive” effort to build such platform in practice is NASA’s Voyager interstellar spacecraft launched in 1977 bringing small metal plaques known as Golden Record containing messages needed to alien intelligence. I said “primitive” considering the package not yet meet the possibly requirements necessary needed from 3 x 3 matrix of KI above mentioned.....
19.if the experiment of sending message through neutrino succeed, therefore the involvement of electromagnetic (Photon mediating force) will be substituted with DST Gravitational superposed with IST Entanglement (DEF Graviton + Knowon mediating force) which has far more range of interaction : Long vs Very Long (Infinity)
The very promising in the future with Neutrino driven communication is the phenomenon of what I called as “Consciousness Transferring Phenomenon or CTP” or transfer of Knowledge by means of entanglement speed (non local phenomenon) (see <http://bit.ly/zbdp28>)
Only KM as applied science could describe the phenomenon above mentioned for the benefit of basic science (Theoretical Physics)!.....
20. Music as well as Language are by means the product of (human) Knowledge Language : Based on our study, Nature Knowledge Theory (NKT) , a theory developed and based on adoption to the

paradigm of “The Universe or the Nature Knowledge is the source and center of Consciousness” rather than “Mind Brain or Human Being is the source and center of Consciousness”, only human being as creature in the Universe equipped with 3th Knowledge Interface (KI) and 9th KI. Our 3th KI responsible for human social behavior capability. While 9th KI responsible for Human Organizational Cumulative (Collective and Social Learning) Culture . With noted that 9th KI in reality functioning as organizational Standard and Culture Value of human nurtured Knowledge Management (KM). Driven by 3rd and 9th KI, Music as well as Language are by means the product of (human) Knowledge Language.....

21.Knowledge attributed with Consciousness behaving as subject and alive. Translator machine, albeit very smart, behaving as object and no consciousness.
Language shaping Consciousness in the form of new Knowledge evolvement, vice – versa
Consciousness shaping Language in the form of Language dynamic....
22. Instead of using tractor beam, a device with the ability to attract one object to another from a distance, we use our own Human System Biology-based Knowledge Management (HSBKMtm) model framework to prove the existence of Knowon, proposed as the 5th Fundamental Force representing Knowledge as the third fabric of Universe beside Matter and Energy. We coined a term of the method we used as “Inverted Paradigm” phenomenon by treating Applied Science (Knowledge Management) as “Knowledgeable Science” for the sake of the development of Basic Science (Theoretical Physics). The “Duo entity Graviton – Knowon” as Universe DNA across the Universe making Nature’s Laws may vary across the Universe and finely-tuned for the existence of life
23.I have been working since 2009 to studying “The animate Universe through Nature Knowledge Theory - generated Human System Biology-based Knowledge Management (HSBKM) model framework”. From my recent article intended to exploring Knowledge at URL <http://bit.ly/zJiq9Z> (“Guide to Taxonomy of Future Knowledge”) we will understand that “Knowledge domain is the edge of Science”. And further through <http://bit.ly/GARHO2> (“Important considerations why the limit of Science should shifted to the right”) we could expected to get comprehended regarding our curiosity about the “limit of (scientific) nature laws....”
24.Human Individual Knowledge (1st, 2nd and 3rd Knowledge Interface) also interconnected and/or interaction with Organizational Knowledge or Knowledge Management (KM) (7th, 8th and 9th Knowledge Interface) as well as Nature Knowledge (4th, 5th and 6th Knowledge Interface) but more comprehensive with higher complexity.....
25.Tacit Knowledge representing 1st – 2nd – 3rd Knowledge Interface of Individual / Human Knowledge. Explicit Knowledge representing 7th – 8th – 9th Knowledge Interface of Organizational Knowledge (KM). Nature Knowledge (non human) of animate Universe representing 4th – 5th – 6th Knowledge Interface respectively. The different role of Tacit and Explicit around the issue of human

– computer interaction depend on how intense each of their (Tacit and Explicit) Knowledge Interface shifted to the right.....

26.conversation is just superficial interactions involving qualitatively (extensely) as well as quantitatively (intensely) involving those 9 Knowledge Interfaces namely or directly the interaction among 1st, 2nd, 3rd, 7th, 8th and 9th Knowledge Interfaces and indirectly representing 4th, 5th and 6th Knowledge Interfaces before stepping into deeper process of Knowledge evolvement (captured or created) which we could learn the mechanism through Bloom's Taxonomy of learning covering cognitive, affective and psychomotoric aspect.....
27.<http://bit.ly/pOSGBt> - "Knowledge is the Edge of Science" and later abstracted within Knowledgeable Era vs Scientific Knowledge Era on page 2 of URL <http://bit.ly/rjJzqb> - "Addressing the dawn of Knowledgeable Science era" will explain as follow :
SCIENTIFIC KNOWLEDGE DOMAINKNOWLEDGEABLE SCIENCE DOMAIN
 Until end of 20th century.....Begining early 21th century
 D-I is the hubK-W is the hub
 Scientific mind set.....Beyond Scientific mind set
 Deducto-Hypothetico-Verificative.....Evidence-based and Reverse Engineering
 Probability-driven.....Possibility-driven
 Relying on human senses and mind brain.....Consciousness DNA is Human limit
 Data-base.....Knowledge-base
 Seeking Good and True..... Seeking Right as Human Wisdom
 Multi Media tools..... Social Media 2.0 – 3.0
 Learning by Doing..... Doing by Learning
 etc (Data / Information-driven)..... etc (Knowledge-driven)
28.Cumulative Culture, Collaborative Learning, Social and Cognitive capabilities, Sociocognitive processes, Organizational Culture (Learning Organization), Organizational Learning, Collective / Social Learning etc whatever the terms called, all adopted specially in the interactions of 7th, 8th and 9th Knowledge Interface (KI) within HSBKM model framework (see the diagram matrix map above). It means by nature only human being have the ability to develop nurture Knowledge Management system with cumulative cultural development result or output
29.Not intended to negate the current method of CERN (The European Organization for Nuclear Research) used, but we would seeking another approach as well as entirely new another paradigm to complementing the work of CERN – LHC (Large Hadron Collider).....
30. What currently on going process in science (scientific Knowledge) evolution marked with shifting paradigm from Data – Information – Knowledge – Wisdom or DIKW continuum - generated representing "Mind Brain or Human Being is the source and center of Consciousness" paradigm

toward Nature Knowledge continuum - generated representing “The Universe or the Nature Knowledge is the source and center of Consciousness” paradigm.....

31. *It seems from my point of view, most of us still have mindset derived from DIKW continuum which is unfortunately, sorry, considered as human artefact in science since 17th century. On the other hand, if the human Knowledge derived from Nature Knowledge, even in reality marked with unique and somewhat “strange behavior” that so far there is no acceptable and workable Knowledge and/or Knowledge Management (KM) definition, just because it is rooted from the important behavior of Knowledge that most of us not aware that Knowledge actually behaving as subject, having consciousness and evolved as emergent property in human complexity. Contrary with D-I continuum which is only as object with no consciousness and passive....*
32.*Human System Biology-based Knowledge Management (HSBKM) – generated method (through KV and “k” constant factor as the metrics) already revealed the behavior as well as some features of Higgs Boson, we believed as duo-entity-force (DEF) Knowon-Graviton boson instead of their function in giving mass to particles vs LHC – generated method (through GeV as the metrics) that would be revealed further (2012?) the existence of Higgs Boson physically.....*
33.*G r a v i t o n, the 4th fundamental force, for the first time could be quantified indirectly as “duo-entity-force”(DEF) through Knowledge Value (KV) measurement of Knowon.....*
34.*DIKW is just human artefact. The real Knowledge generated not from DIKW continuum but from Nature Knowledge continuum representing our smart, psycho-somatic, complex (adaptive) system and animate Universe. The paradigm needed, assuming Consciousness is the attribute of Knowledge, ...“The Universe or the Nature Knowledge is the source and center of Consciousness” rather than “Mind Brain or Human Being is the source and center of Consciousness”*
35. *“After Singularity between Human Mind and Technology reaching its peak (in 2012 ?), it will be the “Jump Time” for us to make “Great Turning” from the BRAIN as locus of Mind to the DNA as locus of Higher Consciousness and Human Value”....*
36.*We strongly suggest Knowon as the fifth fundamental forces of nature which is independent to Space-Time (IST) and featuring as non-hypothetical massless particle, should be the strong candidate of the “hidden variable” thanks to its quantum consciousness as “psycho (consciousness) mediating particle” counterparting Graviton factor as “somato mediating particle” becoming “duo-entity-force”to bridging the gap between quantum and classical mechanic.....*
37. *In quantum world, Knowon is the “playmaker” through acting as “Psychic / Consciousness Mediating Particle” of the Universe, counterparting Graviton as ““Somatic Mediating Particle” of the*

Universe. In classical mechanics macroworld, Knowledge (K) maintaining the harmonious interaction between Matter (M) and Energy (E) through empowering Knowon consciousness.....

38. Knowon, the Psychic / Consciousness Mediating Particle as the fifth Fundamental Forces albeit independent to Space-Time (IST) but in counterparting Graviton platform as Somatic Mediating Particle becoming duo-entity-forces (DEF) will acting as Nature Knowledge Management (KM) to do orchestrating the other 3 (three) Fundamental Force, Gluon – Photon – W,Z under Knowon – Graviton domain towards unification of Particles and Forces.....

39. The Road to Nature Knowledge through Knowledge – Value (KV) measurement :

"We are not human beings on a spiritual journey. We are spiritual beings on a human journey." - [Stephen Covey](#)

"Reality is merely an illusion, albeit a very persistent one." - [Albert Einstein](#)

...."I think the next century will be the century of Complexity." - [Stephen Hawking](#)

..... Dear Hawking, it seems the next century will be the century of Knowledge." - [Md Santo](#) - <http://bit.ly/tzBu2u>

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