

**Mapping the Secrets of the Universe : complementing bottom-up (CERN – LHC)
with top-down (Mobee Knowledge Services) mechanism**

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About ATLAS – CERN - <http://www.atlas.ch/>

Mapping the Secrets of the Universe

ATLAS is a particle physics experiment at the Large Hadron Collider (LHC) at CERN (The European Organization for Nuclear Research) . The ATLAS detector is searching for new discoveries in the head-on collisions of protons of extraordinarily high energy. ATLAS will learn about the basic forces that have shaped our Universe since the beginning of time and that will determine its fate. Among the possible unknowns are the origin of mass, extra dimensions of space, unification of fundamental forces, and evidence for dark matter candidates in the Universe.

- [What is the schedule of ATLAS?](#)
- [Who are the 3000 physicists in ATLAS?](#)
- [What is the LHC?](#)
- [How big is ATLAS?](#)
- [How much data will be recorded?](#)
- [Why is there so much excitement?](#)
- [Are students involved?](#)

**About Mobee Knowledge Services - <http://bit.ly/l9pfUp> and
<http://mobeeknowledge.ning.com>**

*...To avoid or at least to minimize the assumption “what we can understand today it is all theoretical”
as the “weakness” of Theoretical / Astro Physics, let’s try totally new within inverted
paradigm, practical science (Knowledge Management / KM) applied
to basic science (Theoretical / AstroPhysics)... (Md Santo, 2010)*

Mapping the Secrets of the Universe

- **Mobee Knowledge Services** (member of *World Academy of Science, Engineering and Technology*) is Knowledge Management (KM) and Organizational Learning (OL) consultant working at “*the intersections of Knowledge Management (KM) – Complexity – Philosophy of Science – Theoretical / Astro Physics – Organizational Learning (OL) to develop Nature Knowledge Theory*”
- Our working postulate is,“*We are Knowledge Management (KM) - regulated by Nature (“natural world”) , and by nature (“character or kind”) we are Knowledge Management (KM) model*”....(Md Santo, 2009)
- The main principles and outcomes of our work are the followings :
 1. Within Nature Knowledge Theory (NKT) as our basic assumption, we recognized Universe comprising of (Nature) **Knowledge – Energy – Matter** as the fabrics or basic engredients of the Nature
 2. Universe evolution can not be tested and be repeated either, but you can applied “reverse engineering method on basis of evidence based” to studying the end results of evolution process intended to reconstruct some aspects of the history of Universe (Astro / Theoretical Physics)
 3. (Nature) **Knowledge – Matter – Energy** as an entity (Universe Trilogy) having current end result of evolution since the Big Bang in the form of current present eco-system of Psycho – Somatic structure of Nature. Here we look upon Universe as an animate Universe, a structure which is alive and having consciousness, smart , and acting as subject
 4. **The high-end result of Universe evolution** could be represented either within **Knowledge structure in Human, (nurtured / organizational) Knowledge Management (KM)** or in **Nature Knowledge structure** as well within animate Universe (see <http://bit.ly/HBTntZ> - “*Mind Brain – Knowledge Interface Connection : Nature Knowledge Theory* applied to Neuro Science*” and <http://bit.ly/wQj0qE> - “*Brief Guide to Physics of the Universe : Knowledge Management – Generated*”)
 5. The Inverted Paradigm Method (IPM) as tools for reverse engineering method, used within context of Nature Knowledge Theory (NKT) actually

not exercised in isolation considering that the use of IPM require a Knowledge-intensive body of Science as target in which we should do a kind of top-down mechanism based on “of-proof” to an accumulated Knowledge-base and/or Knowledge-repository. The Knowledge – base should already organized systematically in term of their Taxonomy – Metadata management as well as their model framework. The candidate of intended target of IPM assumed as Mature Knowledge System representing the High End of Universe Evolution which are treated as applied Science are our 3 years of matured **Human System Biology-based Knowledge Management (HSBKM) model framework** and **Mobee Knowledge Competency Capability Maturity (MKCCM) model as KM metrics**. Both of them could be considered as solid and robust Knowledge - intensive “Lab and Experimental Workplace 2.0” for further possibility advanced study. (<http://bit.ly/sZnFFn> - “Guide to Inverted Paradigm method (IPM) : KM applied to discovering new Theoretical Physics findings”). As the output,we succeeded to discover some theoretical constructs derived from KM applied to Physics namely in Theoretical and/or Astro Physics - <http://bit.ly/zVS7mF>

6. Considering of the above mentioned, we claimed that the result of our study not anymore theoretically but evidence-based empirically. The Knowledge-based metrics we developed and used are *Knowledge – Value (KV) measurement* and *k-constant applied to our HSBKM model framework*
7. Our TimeLine from 2008 through 2012+ exposing “*Impact of our Knowledge Management (KM) system to basic and applied sciences*” could be learned at URL <http://bit.ly/IEhvLv>
8. Mapping to somewhat extend the secret of the Universe, by top-down approach we have been doing some complementing efforts by means not to negate the expected outcomes of ATLAS - CERN – LHC. **The following URLs are our outcomes regarding the efforts to mapping the secret of the Universe** (all cited from the link <http://mobeeknowledge.ning.com/forum/topics/mapping-the-creation-of-universe-through-nature-knowledge-driven->) :
 - <http://bit.ly/zbdp28> - “*Fundamental Force Map of Psycho - Somatic, Smart, Conscious and Animate UNIVERSE : Generated from*

Knowledge Management (KM) through Inverted Paradigm Method (IPM)”

- <http://bit.ly/pET0V4> - “*Knowledge Loci in Human and Nature*”
- <http://bit.ly/umS2Xi> - “*KV – k Relationship*”
- <http://t.co/7qHeHdJe> - “*Physics of the Universe revealed by Knowledge Management model framework*” (see p 14 – “*Tale of the Universe*” giving picture how *Known* plus *Graviton* as the “DEF” at the very early time of Big Bang “hand-in-hand” to achieving the first creation of Hydrogen and Helium nuclei as showed at <http://bit.ly/umS2Xi> - “*KV – k Relationship*”) plus one additional link :
- <http://bit.ly/K6pfqE> - “*Duo-entity-force*” (DEF) *Known-Boson as the key to bridging Light and Dark aspect of the Universe*”

9. **Two academical and peer review intended articles of us exposing also our mapping the secrets of the Universe are the following :**

- <http://bit.ly/wOIXq6> (ABSTRACT) - Md Santo, M.Arsali : “*Impact of Human System Biology-based Knowledge Management (HSBKM) model framework on Theoretical Physics*” , presented at “The International Conference on Mathematics and Sciences” – Surabaya Institute of Technology (ITS), Indonesia, October 12 – 13, 2011
- <http://bit.ly/LL1oOZ> (ABSTRACT) – Md Santo : “*Decomposing Knowledge System as High End of Universe Evolution - The benefit for Theoretical Physics and Future Science*” : Submitted to 3rd National Seminar on Applied Physics – Faculty of Science and Technology, Airlangga University (Surabaya, Indonesia - Sept 15, 2012)

10. **General overview of our work :** <http://bit.ly/LOoYho> - “*Comprehensive Guide to Future Science Environment : Decomposing Knowledge with Inverted Paradigm Method*”

11. **Some noted clarifications and/or definitions from Nature Knowledge Theory (NKT) (non - randomly arranged) :**

- **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, for the first time Knowledge considered also being as fabric of Universe having potential as independent to SpaceTime (IST) contrary with 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 psychosomatic 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*”.....
- **Knowledge Management** - by eclectic definition (choosing what is best or preferred from a variety of sources or styles, within Nature Knowledge Theory™ context), Knowledge Management essentially is not management technique but behaving more as a living access

mechanisms that can be used across any management tool type such as Total Quality Management, Learning Organization (Peter Senge's Fifth Discipline), HRM, Benchmarking, Process Classification Framework, Business Process Reengineering, Balanced Scorecard, Business Intelligence, Information Management including Social Media platforms etc. wherein each with their specific functions to be orchestrated under KM's consciousness. So, here we put KM in incredibly broad meaning behaving as SUBJECT with higher level than any other management tool type which is treated only as OBJECT

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

- **“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 “somato 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 (one of our statement regarding k – constant, *Prediction of searching :“k” 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 (eg LHC) 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....)*

- **Consciousness** - is the output of knowing tools, covering from human, nature and organizational respectively, evolved as emergent property, being Knowledge attribute within complexity ecosystem, alive and behaving as subject with freewill. Further, Knowledge actually is infinite differentiated form of acted Consciousness within quantum physics level through classical mechanic bio - physics level
- **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
- **Consciousness level of Human Knowledge** – See “Human Knowing Tools”, within relative scoring value, “Knowledge with Lower Consciousness” (KLC), Knowledge with Medium Consciousness” (KMC) and “Knowledge with Higher Consciousness” (KHC) are given weighting score (WS) by (inter) subjective judgment as 1 : 3 : 5 respectively. Within Nature Knowledge continuum, the relative scoring value by means of Thurstone method converted into absolute scoring value called as “Knowledge Value (KV) measurement”, where KLC = 1.0, KMC = 3.0 and KHC = 5.0 Hypothetically, maximum possible score for human = $1.0 + 3.0 + 5.0 = 9.0$
- **Consciousness Transferring Phenomenon (CTF)** – the phenomenon by which Knowledge could be transmitted in entanglement speed, in term of instantaneous and non-locality condition within ecosystem of Independent to SpaceTime (IST) Known superposed with Dependent to SpaceTime (DST) Graviton as Duo-Entity-Forces (DEF). Assuming consciousness is the attribute of Knowledge, it means interaction with the environment is not the matter of electromagnetism phenomenon such in sending information through telco devices. Knowledge as consciousness requires that we should treat Knowledge as in quantum state able to behaving “entanglement” action and “superposition traits”. 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 assuming that Knowledge could act as independent to SpaceTime

- **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)
- **Human Knowing Tools** - Human Knowledge consist of three knowing tools. The first is Human Senses (Peripheral Nerves System incl. Autonomic Nerve System) as Primary Human Knowing Tools producing “*Knowledge with Lower Consciousness*” (KLC) representing human sense-taste-feeling-feel-flavor-sensation (= human senses). The second is Human Brain (Central Nerves System) as Secondary Human Knowing Tools producing “*Knowledge with Medium Consciousness*” (KMC) representing human reason-mind-intellect-intelligence-way-idea (= human mind). The third is Human Genomic DNA (DNA Consciousness) as Tertiary Human Knowing Tools producing “*Knowledge with Higher Consciousness*” (KHC) representing human will – desire – wish (= human conscience)
- **Human System Biology-based Knowledge Management (HSBKM) model framework** is a Knowledge Management (KM) comprehensive entity comprising of *Technology* (KM Tools) analog with human senses, *Processes* (KM Process Framework) analog with human mind brain and *People* (KM Standard Culture and Value) analog with human consciousness DNA respectively
- **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

- **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
- **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
- **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
- **Mobee Knowledge Competency – Capability Maturity (MKCCM) model** - is our KM metrics to complementing the operational concept of HSBKMTM considering that Knowledge is an important living valuable aspect and must be well managed and measured
- **Target loci within Nature Knowledge** – Human senses, brain and genomic DNA representing 1st, 2nd and 3rd Knowledge Interface are special target loci within Nature Knowledge continuum in the Universe inside human being psycho-somatic structure functioning as human knowing tools where Knowledge with Lower – Medium – Higher Consciousness or KLC, KMC and KHC respectively originated. The other

human tissue and/or organ represented their interaction with the 4th and 5th Knowledge Interface. The 6th Knowledge Interface as the highest level of Nature Knowledge representing action with the 3rd Human Knowledge Interface. The others 7th, 8th and 9th Knowledge Interface are nurtured Knowledge Interfaces within human organization or Knowledge Management

- **Theory of everything (TOE)** - or final theory is a putative [theory](#) of [theoretical physics](#) that fully explains and links together all known physical phenomena, and predicts the outcome of any experiment that could be carried out in principle.^[1] Many candidate theories of everything have been proposed by theoretical physicists during the twentieth century, but none have been confirmed experimentally. The primary problem in producing a TOE is that [general relativity](#) and [quantum mechanics](#) are hard to unify. This is one of the [unsolved problems in physics](#). (source cited from http://en.wikipedia.org/wiki/Theory_of_everything)

We believed the development of Nature Knowledge Theory (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*”.....

- **Copernican principle**, states that the Earth is not in a central, specially favored position. More recently, the principle has been generalized to the relativistic concept that humans are not privileged observers of the universe. In a nutshell, the Copernican Principle mentioning there is nothing special about human and/or Earth. Instead of **Somato Aspect (Physical Mediating Aspect) as Old Copernican Principle** (Nicolaus Copernicus, 1542), we developed **Psycho Aspect (Consciousness Mediating Aspect) as New Copernican Principle** (Md Santo, 2011) in conjunction with **Nature Knowledge Theory** (Visit our Knowledge – base <http://www.delicious.com/mobeeknowledge/copernicanprinciple>)

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