



## Research Article

# An Integronic Frame About the Interface(s) “BIODIVERSITY $\Leftrightarrow$ GENOME $\Leftrightarrow$ SOCIETY $\Leftrightarrow$ HUMAN KNOWLEDGE”

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### Abstract

How could the assumption onto our Cosmos by Transdisciplinarity, Integrative Science, and Theology fit in the worldview made by the globalization / regionalization realities and postmodern aspirations.

There is, here, a “possible turning point” proposal to take account on the state of art, at least, in the related arena to Cognitive Science, regarding the comprehension on consciousness [1]. So, there is a significant term, here taken as a creative metaphor within an epiphoric tension [2], ‘qualia’ (at plural; singular ‘quale’, in Latin) to refer to the introspectively phenomenal aspects of our mental lives. The actual usage of the term bears the disagreement on how qualia relate to the physical world both inside and outside the human, beyond which mental states have qualia, and, also, the disagreement on mind-body problem. This “nominated” disagreement, through qualia term, support and elicit the comprehension on consciousness and beyond. The subjective sensory qualities like “the redness of red” (those accompany our perception) are per se qualia. The explanatory gap (that exists between the subjective qualities of our perception and the physical system that we call the brain) is symbolized per se by qualia. So, it may be a proper turning point to approach subjective-objective gap of ourselves. As above presented, as related to our gap, qualia term is used starting from. Now, on another part, a new insight “subject-object reversal” is elicited by aiming out of: conventional understanding (“what else is true”) and constraining explanation (“what is science?”). These “out of” are equivalent to prolong qualia beyond “our gap” and so, to face toward the construction of a “HUMAN GENOMIC COMPLEX”.

**Keywords:** Comprehension on consciousness; Eco-consciousness; Existence Reflection profoundness; Globalization regionalization realities; Holistic capacity; HUMAN GENOMIC COMPLEX; Integrative Science; Mind conscience; Our cosmos versus transdisciplinarity; Postmodern aspirations; Qualia; Re-approaches; Subjective-objective gap of ourselves; Theology; Universal consciousness

### The 1<sup>st</sup> FRAME

“Original” rationale addressing a conjecture upon the MULTILEVEL\_CIRCULAR relation: KNOWLEDGE\_1  $\Leftrightarrow$  BRAIN  $\Leftrightarrow$  MIND  $\Leftrightarrow$  GENOME  $\Leftrightarrow$  SOCIETY  $\Leftrightarrow$  KNOWLEDGE\_2

**(Quasi) Definition\_1:** An Integronic Mode of Thinking (Imt) means a subtle near-ness to the Holistic Mode of Thinking (Hmt). I.e. a HUMAN, as much as possible, attains Imt if HE/SHE USES one (at least) from the operators from the open set: {COMPARISON OPERATOR; BELONGING OPERATOR; INCLUSION OPERATOR; ...}— within a problem solving saturated environment.

This USAGE is revealed by “engaging” related subtle expressions of gnosis and/or episteme, as well, alongside his/her explanations and/or understanding attempts and/or embedded sentiments and/or intuitions attempts [3-10].

**Proposition 1:** A subtle near-ness to the Hmt, so, an expression of Imt has a necessary and sufficient communication condition within the evolutionary creative Human’s appearance of communication.

This condition is implemented by/from/with an issue of communication which contains at least a related subtle expression of gnosis and/or episteme responsible on his/her explanations and/or understanding attempts and/or embedded sentiments and/or intuitions attempts [11-17].

**Proposition 2:** If a Human, as much as possible, attains Imt, then he/she is, has and uses one element (at least) from the set of bio-support for the acting within the probabilistic/statistic, fuzzy.

**MULTILEVEL\_CIRCULAR relation: KNOWLEDGE\_1 <=> BRAIN <=> MIND <=> GENOME <=> SOCIETY <=> KNOWLEDGE\_2**

Within a General Humankind System // Living Support Entities (and their Existence Reflection) [as an Anticipatory / Incursion (computing) system] [18-33] (K1-K2).

**Proposition 3:** A subtle near-ness to the Hmt, so, an expression of Imt has a necessary and sufficient communication condition within the innate cultural Human’s appearance of communication: “HUMAN COMPLEX”. This condition is implemented by/from/with an issue of communication which contains at least a related subtle expression of gnosis and/or episteme responsible on his/her FLOW through the MULTILEVEL-CIRCULAR relation K1-K2 / [34-39].

**Proposition 4:** If a Human, as much as possible, attains Imt, then he/she is, has and uses one element (at least) from the set of bio-support as Individual - but - meantime, he/she does all these as an element of a set of Individuals (i.e. PAIR/e-DIALOGUE COUPLE, TRIAD, FAMILY, COMMUNITY/e-COMMUNITY, SMALL/MIDDLE/LARGE SCALE COMMUNITARIAN ENTITY, HUMANKIND) and so for the acting within the probabilistic/statistic, fuzzy.

**Enlarged MULTILEVEL\_CIRCULAR relation: KNOWLEDGE\_1 <=> “HUMAN GENOMIC COMPLEX” <=> BRAIN <=> MIND <=> GENOME <=> (e-)SOCIETY <=> “HUMAN (e-)COMPLEX” <=> KNOWLEDGE-2 (K1\_K2),**

Then this USAGE [of any element from the set of bio-support as Individual] means that that set of Individuals (as above) attains Imt – pointing HUMAN GENOMIC and HUMAN (e-)COMPLEX.

**Remark 1:** This attainment (as Proposition 4 states it) does not directly means that both that Individual or that set of Individuals recognize(s)/communicate(s) that attainment of Imt, generally addressing, toward another element of a set of Individuals (again: as above into Proposition 4).

**Proposition 5:** The reciprocal stance of the Proposition 4 does not stand meantime there is/are severe constrain(s) [as Microcosm, neural, biological, environmental, societal, Macrocosm constrain(s)] related to the obvious emittance of a gnosis and/or episteme subtle expression by/from/with an Individual toward a set of Individuals (e.g. cases from: SATURATED PROBLEMS FROM SCHOOLS, JAILS / ANY FORM OF CONSTRAINED LIBERTY, HARD LABOUR CAMP, STRESS-ZONE FROM RESEARCH LABORATORIES, MILITARY UNITS, SECRET INFORMATION UNITS, EXECUTIVE GOVERNMENTAL UNITS - much more addressing, here, a General Humankind System // Living Support Entities (and their Existence Reflection) [as an Anticipatory / Incursion (computing) system] [40-52], Recovery of the Remark 1 / (but) as an [explicit] Inquiry: Which is the COMPARATIVE RELATION - as pointing from the Associations mode of thinking (i.e. step by step “jumping” from a neuronal image to another neuronal image by/from/with an Individual and/or a set of Individuals) to the Imt?

**Proposition 6:** The SUPPOSED probabilistic/statistic, fuzzy, subtle type of the K1\_K2 MULTILEVEL\_CIRCULAR relation would remain a per se unproven type/unknown type meantime there are/will be yet NOT significant discoveries related to the meta-relations between the elements of the relation KNOWLEDGE\_1 <=> “HUMAN GENOMIC COMPLEX” <=> BRAIN <=> MIND <=> GENOME <=> (e-)SOCIETY <=> “HUMAN (e-)COMPLEX” <=> KNOWLEDGE\_2. And the ontic multi-open string {..., MICROCOSM, HUMAN, NEURAL ENTITIES, BIOLOGICAL ENTITIES, ENVIRONMENTAL ENTITIES, SOCIETAL ENTITIES (INDIVIDUAL, PAIR/E-DIALOGUE COUPLE, TRIAD, FAMILY, COMMUNITY/E-COMMUNITY, SMALL/MIDDLE/LARGE SCALE COMMUNITARIAN ENTITY), HUMANKIND, MACROCOSM, ...}

**Remark 2:** as an Inquiry is there an increasing stance of the K1\_K2 MULTILEVEL\_CIRCULAR relation if an Individual (even unproven/unknown) has an increasing stance of the attaining Imt? [Which are the “individual” sources toward “fixing/prompting/sustaining/attaining” an increasing stance of the Imt attaining?] [3,10,53-66].

**NOTE\_1:** These “original” rationale are to be presented, also, as a result of (at least...) some scientific meetings with three Professors and a Director who the author of this current study had met, thus stimulating (in)directly this edition of this Ist FRAME:

Richard L. Amoroso, Director of Noetic Advanced Studies Institute, CA, US. [67]; Mariano L. Bianca Ph.D., Professor, Siena University, Facoltà di Lettere e Filosofia, Dip. di Scienze storico-sociali, filosofiche e della formazione, Italy [38].

Radu J. Bogdan Ph.D., Professor, Tulane University, US; Regular Guest Professor, University of Bucharest, Romania [64].

Niels Henrik Gregersen PhD, Professor of Systematic Theology, Department of Systematic Theology, Faculty of Theology, University of Copenhagen, Denmark [68]

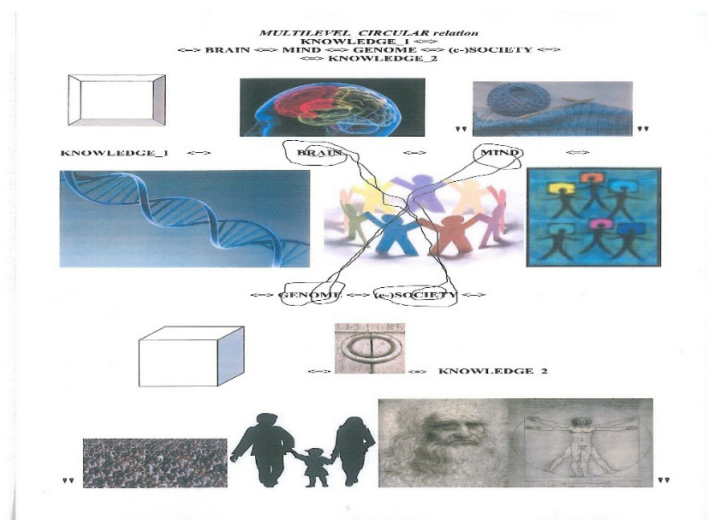
There was an attempt to realize a kind of methodological-dialogue between the above ‘four scientifically types’ of meetings. There is the affirmation that the current study inquiries the diversity of these ‘four scientifically types’; one result is revealed by the consonant diversity within the TABLE-contents entitled “HUMAN GENOMIC COMPLEX” stance of approaches / see these TABLE-consonant-contents into the downward Section I of the III FRAME.

The next quotation tries to lexicographical represent the above text [only and only within a metaphor]:

“As giving, it starts as giving from what you have to HAVE, then - from a moment, it follows as giving from what you are to BE.” (The Father ARSENIE BOCA, Christian Theologian b.1910 - d.1989) / “Cand dai, la inceput dai din ceea ce ai, apoi, de la un moment dat, dai din ceea ce esti.” / In Romanian language.

**NOTE-2:** The HOLISTIC mode of thinking (Hmt) [‘highly and possible firstly’ focalised by Plato] is defined ‘together’ and within the diversity/fragmentation of our human thinking. This diversity/fragmentation comprises also the following modes of thinking: ANALYTIC [‘highly’ focalised by Descartes], EXPERIMENTAL [‘highly’ focalised by Fr. Bacon], and EXPERIENTIAL [‘highly’ focalised by Bergson] [8,55,60,69-85].

**NOTE-3:** An INTEGRONIC mode of thinking (Imt) BEYOND its subtle near-ness to the HOLISTIC mode of thinking (Hmt) would have to inquiry on (at least) the ... <=> BRAIN / HEART <=> MIND / CONSCIENCE / CONSCIOUSNESS <=> The next graphic represents the above text as an image, for the initial (by the contexts before the Proposition 4) frame, and then the enlarged (by the context of Proposition 4) frame, as the Figure 1.



**Figure 1:** Multilevel Circular Relation: KNOWLEDGE\_1 <=> “HUMAN GENOMIC COMPLEX” <=> BRAIN <=> MIND <=> GENOME <=> (E-)SOCIETY <=> “HUMAN (E-)COMPLEX” <=> KNOWLEDGE\_2 .

## The II<sup>nd</sup> FRAME

Toward a Possible Turning Point between Transdisciplinary Research, Integrative Science Prospect, and Theology - Possible Turning Point as Facing “HUMAN GENOMIC COMPLEX”.

How could the assumption onto our Cosmos by Transdisciplinarity, Integrative Science, and Theology fit in the worldview made by the globalization / regionalization realities and postmodern aspirations?

There is here a “possible turning point” proposal to take account on the state of art at least in the related arena to Cognitive Science, regarding the comprehension on consciousness. So, there is a significant term, here taken as a creative metaphor within an epiphoric tension ‘qualia’ (at plural; singular ‘quale’, in Latin) to

refer to the introspectively phenomenal aspects of our mental lives. The actual usage of the term bears the disagreement on how qualia relate to the physical world both inside and outside the human, beyond which mental states have qualia, and, also, the disagreement on mind-body problem. This “nominated” disagreement, through qualia term, support and elicit the comprehension on consciousness and beyond. The subjective sensory qualities like “the redness of red” (those accompany our perception) are per se qualia. The explanatory gap (that exists between the subjective qualities of our perception and the physical system that we call the brain) is symbolized per se by qualia. So, it may be a proper turning point to approach subjective-objective gap of ourselves. As above presented, as related to our gap, qualia term is used starting from Now, on another part, a new insight “subject-object reversal” is elicited by aiming out of: conventional understanding (“what else is true”) and constraining explanation (“what is science?”). These “out of” are equivalent to prolong qualia beyond “our gap” / and so, to face toward the construction of a “HUMAN GENOMIC COMPLEX”.

Here it is proposed an extended usage of qualia term to comprehend the multiple approaches onto our Cosmos by contemporary thinkers beyond strictly Philosophy, Biology and Physics, and beyond actual state of our economic and political shaped [post-crisis] Planet. This multiple approach refers the deepest and profound reality, research for the convergent points of existence and reflection; it is beyond the complexity of “a” categorized academic science and the long-term tribulation of the “hard” XX century. From the contemporary thinkers beyond all these, here, the proposed focalization is on Transdisciplinarity Integrative Science prospect [45,47,87,88] these types of research being the one part into the Science-Theology dialogue. And into the “Centrum” of this dialogue it is proposed a Qualia role for the subjective-objective gap of ourselves inward the Cosmos, as “nominated” disagreement, just to support and elicit the comprehension on fragmentised deep knowledge, on the act of contemporary individual and collective consciousness, onto the complex relation consciousness-data-information-knowledge - a visible section into the Science-Theology dialogue. All these support a generalized subjective-objective gap. So, a “HUMAN GENOMIC COMPLEX” would support the analysis and to elicit the usage of Qualia term that would grant “any” overwhelmed gap, by “any” part, seen in any section regarding Science-Theology dialogue [89-92].

## The III<sup>rd</sup> FRAME

Is it possible to really be a way toward the Innovative Social Relations and Creative Partnership issue vs. the Interactive Modelling / “HUMAN GENOMIC COMPLEX” stance (IM/HGC)?

### Section I: The STRUCTURAL section of the III<sup>rd</sup> FRAME:

There are the following proposed principles (PP) focusing the proposal within the IM/HGC stance - also, to form the background for the structural construction of this study:

PP1: The affirmation upon a per se COMPLEXITY - within the two FRAMES, above, as key interdisciplinary research themes - toward the Innovative Social Relations and Creative Partnership (ISR and CP) objectives and a primal-dual conceptual stage vs. the IM/HGC stance [93].

PP2: On INNOVATION AND EDUCATION regarding the two FRAMES, above, as key interdisciplinary research themes - toward the ISR and CP demands vs. the IM/HGC stance.

PP3: The PERCEPTION of the two FRAMES, above, as key interdisciplinary research themes - toward the ISR and CP issue vs. the IM/HGC stance.

PP4: ASTRATEGY to enable world-wide professional and scientific societies related and consequent - within the two FRAMES, above, as key interdisciplinary research themes - toward the ISR and CP research, education and innovation.

PP5: A core of LOCAL-GLOBAL CRITERIA.

PP6: The IM/HGC stance approach on the KNOWLEDGE versus the societal FRAME.

If the previous tasks of survey (PP1-6) would be successful, then a possible conceptual orientation may be assured according to the following TABLE, as an initial contribution from the / “HUMAN GENOMIC COMPLEX” stance of approaches Table 1.

KNOWLEDGE vs. societal FRAME	Symbolic societal frame	Numeric societal frame
Structured knowledge	Expert Systems	Probabilistic/Statistical and/or Fuzzy Systems
No_structured knowledge	Subtle (No_) Systems	{Neural Systems (networks)}

**Table 1:** The relation between different modelling approaches within an extended System Theory, Praxis and Logic on the background of the KNOWLEDGE vs. the societal FRAME.

So, if there is an agreement upon the fact that the enquired <<Role and impact of professional and scientific societies -within all the two societal FRAMES, above, as key interdisciplinary research themes - toward Innovative Social Relations and Creative Partnership research, education and subsidiary innovation>> quasi exists, then there is a possibility to be reflected within a Subtle



(Non) System-as nearly delimited by the above table. Then, this possible conceptual orientation would be a necessary support with the tracks of the: task-1: providing an analytical list of professional and scientific societies - on related world-wide backgrounds; task-2: developing a questionnaire on the present and next future issues on the matter; task-3: organizing a large scale Workshop to consult on future options-as the generative core of a Humankind approach on - all the PP1-4 key interdisciplinary research themes according to the related recognized scientific entities - for a Periodical Study-Report on “HUMAN GENOMIC COMPLEX” .

**Section II: The FUNCTIONAL section of the of the IV<sup>th</sup> FRAME:** There are the following dually proposed principles (DPP), correlated and concordant to the above Proposed Principles (PP) - just to form the background for the structural-functional construction of this study:

DPP1: The re-affirmation upon the COMPLEXITY of the two FRAMES, above, as key interdisciplinary research themes - toward the ISR and CP issue vs. the IM/HGC stance objectives and the expansion of a DUAL CONCEPTUAL STAGE.

DPP2. Proposing the ANALYSIS of the professional and scientific TRENDS on the two FRAMES, above, as key interdisciplinary research themes - toward the ISR and CP issue vs. the IM/HGC stance.

DPP3. A brief survey on Interactive Modelling stance; SOCIETAL KNOWLEDGE.

DPP4. A brief survey on the CONSEQUENCES of the societal knowledge: Qualia [Planetron, Sociotron] - as constructs toward the two FRAMES, above, as key interdisciplinary research themes - toward the ISR and CP issue vs. the IM/HGC stance, and possible domain.

DPP5. Notes upon an INFORMATION-KNOWLEDGE JOURNEY.

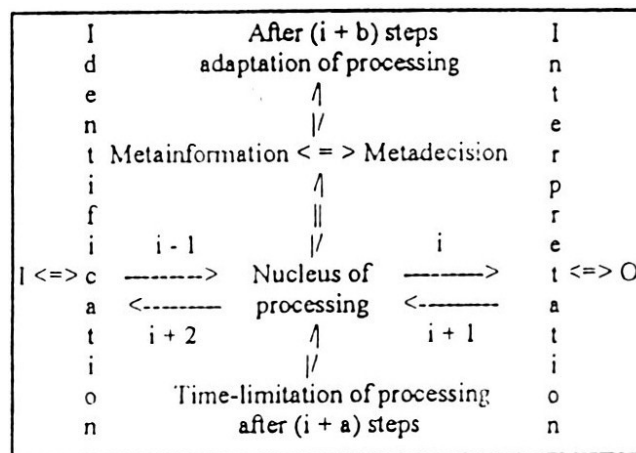
DPP6. SOURCES OF SUBTLENESS - proposed through the two FRAMES, above, as key interdisciplinary research themes - toward the ISR and CP issue vs. the IM/HGC stance, and possible domain.

DPP7. Describing author’s current and POSSIBLE RESEARCH INTERESTS.

DPP8. An ordered LIST OF INQUIRIES and their details related to the two FRAMES, above, as key interdisciplinary research themes toward the ISR and CP issue vs. the IM/HGC stance, and possible domain - according to the content of the DPP1, 2, 4, 6.

The inter/trans/co/cross-disciplinary approaches upon the 3rd millennium are challenges to reduce the societal gap between humankind aspiration and limitation. Focusing on the globalization / regionalization turning point, the contemporary societal gap is

a complex reality; nature, society, and thinking are the reverted parts of this non-systemic entity: societal gap. All these emulate the thinking upon the mind, conscience, consciousness, Existence Reflection profoundness, and Universal Consciousness re-approaches. Let be the following “new” description of a perceived problem within our humankind Figure 2.



**Figure 2:** The connections between, “intro/extro” Input and Output (I and O) within the representation of the Living Support Entities, Eco-consciousness, Holistic capacity, HUMAN GENOMIC COMPLEX” (HGC) [94].

Problem: After 2.5 millennia (proved within the structural science) of life learning across the unknown environment, eliciting innate profoundness, and transmitting information among the parts of the group and to the next group of living support systems, at the beginning of the III<sup>rd</sup> millennium, with the discover of own humankind genome, the society is facing with its own increasing complexity. There is a profound societal gap between aspiration and limitation within an indirect scientific responsibility.

If there is a constituted problem, then Humankind includes its solution, or there is a collapse. The current humankind tends to resolve the constituted problems (also the above represented Problem too) [95]. Also, there is a dilution of the tension between material and spiritual keen approaches over our worlds; but, thus, the entire responsibility is relatively not increased.

Now and here, a possibility consists in an aggregation of the concepts related to:

- \*1. The connected problems of the Planet (poverty/welfare, culture, religion, ideology, science, environment, individual/ societal becoming, survival within the becoming).
- \*2. The worth or/and worthless Knowledge Transfer as a basis for the future decisions and actions; the turning point of the individual and societal tensions.

\*3. The today necessary transition-net: Universal ==> Particular ==> Planetary.

As a becoming of a solution for the above represented Problem, the Rational Subject minds upon the individual and collective flows of the cycle: \*1-\*2-\*3-\*1, according to the synergy of the increasing knowledge. It would stand between / across / around / besides an understanding and an explanation inside / during self-”lost / hidden / unseen” humankind vs. the above presented challenges and metaphors.

\* Holistic capacity (an instant insight and correct representation of an entire context); here it is metaphorical associated with the FIRE symbol – regarding the existence vs. HGC.

\* Eco-consciousness (at least, a harmonic decision versus the contrary tendencies of all the parts); here it is metaphorically associated with the WATER symbol - and reflection vs. HGC / [33,35,65,86,96-115].

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