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**INNOVATIVE PRINCIPLE MODEL OF COGNITIVE AWARENESS
FOR IMPROVING THE MODERN SYSTEM OF UKRAINIAN
EDUCATION AND SCIENCE
ІННОВАЦІЙНО ПРИНЦИПОВА МОДЕЛЬ КОГНІТИВНОЇ
СВІДОМОСТІ ДЛЯ ВДОСКОНАЛЕННЯ СУЧАСНОЇ СИСТЕМИ
УКРАЇНСЬКОЇ ОСВІТИ І НАУКИ**

Summary. Human life, Space, and the Universe play a crucial role in cognitive models. Understanding these differences is important for the development of modern science and technology. The search for truth has unique approaches in different civilizations and religious systems. It isn't easy to combine them, so the new concept of ideal cognition can be useful for the epistemological modeling of modern knowledge. Comparison operations and feedback mechanisms are crucial for refining epistemological models. This is the key to solving many education problems and modern scientific research.

The category "Matter" is a fundamental basis in the cognitive processes of understanding the truth. It's recognized by different viewpoints of scientists.

Thus, the category of "Matter" improves the understanding of the researched processes in various spheres of life. These processes are an integral part of the search for truth and the improvement of scientific understanding of old and new knowledge [2].

Keys words: *cognitive models, comparison and feedback, epistemology, philosophical insights, ideal cognition and simulation, role of matter, search for truth, human cognition.*

Анотація. *Людське життя, космос і Всесвіт відіграють вирішальну роль у когнітивних моделях. Розуміння цих відмінностей є важливим для розвитку сучасної науки і техніки. Пошук істини має унікальні підходи в різних цивілізаціях і релігійних системах. Поєднати їх нелегко, тому нова концепція ідеального пізнання може бути корисною для епістемологічного моделювання сучасного знання. Операції порівняння та механізми зворотного зв'язку мають вирішальне значення для вдосконалення епістемологічних моделей. Це ключ до вирішення багатьох проблем освіти та сучасних наукових досліджень.*

Категорія «Матерія» є фундаментальною основою в пізнавальних процесах розуміння істини. Це визнають різні точки зору вчених. Таким чином категорія «матерія» покращує розуміння досліджуваних процесів у різних сферах життя. Ці процеси є невід'ємною частиною пошуку істини та вдосконалення наукового розуміння старих і нових знань [2].

Ключові слова: *епістемологія, ідеальне пізнання та моделювання, когнітивні моделі, людське пізнання, матерія, порівняння та зворотній зв'язок, пошук істини, філософські ідеї.*

Introduction. This article presents an innovative model to enhance cognitive awareness in the Ukrainian education and science systems. The model addresses integrating advanced gnoseological technology for educational

frameworks to facilitate more effective learning experiences and cognitive development.

The proposed model of scientific cognition explains the systemic set of understanding epistemological categories that allow one to penetrate the depths of natural processes understanding. I.e. their simulation, comparison of old and new information, as well as the influence of feedback from this comparison to get closer to the discovery of the true patterns of the world order. This article discusses the main aspects of this model and its impact on the modern course of Events in the spheres of progressive science.

Nowadays the approach to the study of different cognitive systems is becoming increasingly important under the context of epistemology. Researchers are increasingly aware of an important understanding of cognitive models to improve knowledge and technology in the highlighting of discoveries. This author's interpretation of the new cognition model will have a useful impact on modern ideas of scientific thought in the international meaning of the main epistemology categories.

The proposed model of cognition explains how understanding epistemological categories helps in comprehending natural processes. It supports simulation and comparison of old and new information to discover true patterns in the world. The model suggests that simulations can help achieve a better understanding of cognitive phenomena and explore the relationship between human existence and scientific knowledge, aiming to enhance understanding development of modern technologies.

The model provides a comprehensive framework for enhancing cognitive awareness through technological integration in education and random sciences. The philosophical underpinnings of the model offer a deeper insight into the processes of cognition and the search for truth.

1. MATTER and HER Role in Cognitive Models [1].

The category of "Matter" plays an important role in the process of mastering the Truth. Understanding and using "Her" nature meaning- are making the cognitive processes. It is a key aspect of any research. In principle, this word was born from the word "Mother" (it is like the concept of "Matreya" in ancient Hindustan tradition). Different researchers perceive "This" category in their way, as mastering the Truth of the universe's Core. Their reasonable models allow us to better understand the characteristics of cognitive processes in different areas of modern science.

The concept of "Matter" also plays an important role in computerized simulation of cognitive processes. An awareness of "Its" properties and manifestation characteristics allows us to create more accurate models of true knowledge, which is crucial for the development of new technologies.

The principled model of cognition offers a unique perspective on the relationship between matter and human cognitive processes. In the context of this model, cognitive processes are considered as a key element of perception and analysis of real information. Surprisingly. These processes have a material, physically comprehended basis. We can see how these processes shape our understanding of the environmental world and how the characteristics of newly discovered states of matter affect us. Thus, this model describes an in-depth look at the relationship between matter and cognitive processes, opening new horizons for understanding the nature of the surrounding world and rules for dealing with its cognition.

1.1. Ideal Cognition and Its Impact on Simulation

One of the key aspects of the described model is ideal cognition and its relationship with simulation. The model offers a unique perspective on how simulation can be used to achieve ideal cognition, as well as the extent to which ideal cognition can be embodied in the simulation of epistemological science. In light of discoveries, researchers are increasingly aware of the importance of

understanding cognitive models to improve knowledge and technology. In this article, we will consider the fundamental model of cognition and its influence on modern ideas of scientific thought with the help of the international meaning of the main categories of epistemology.

1.2. Comparison and Feedback

In the context of the proposed model, the operation of comparison plays an important role in understanding various aspects of cognition. The model offers a new perspective on the comparison process, allowing us to analyze and compare different elements of cognition to obtain a more complete understanding of what is being studied or already done. In addition, any feedback is a key element of this model, since it allows us to adjust and improve an understanding of cognitive phenomena through interaction with the external environment of the natural original, as well as propagated knowledge about it.

The comparison and feedback are closely related to the truth-seeking process which is also an important aspect of the model. By comparing different means of knowledge and receiving feedback, it is possible to get closer to the truth, expanding our understanding of the world.

Mastering cognitive models of various sciences plays an important role in creating a universal model of cognition. Understanding the differences and similarities of these models allows us to identify the features and patterns of the desire for the true course of the evolving Nature. The feedback in the process of comparing any cognitive models allows us to clarify and develop existing theories and models, which contributes to the overall progress of the scientific understanding of life. If they will be approved by experiments and practice of use.

1.3. Search for Truth

The search for truth is a central aspect of the cognitive model of scientific inquiry. Various civilizations, and more specifically religious systems of explanations of the world order, have their unique ideas about what Truth is and

how to achieve it. Studying these differences allows us to better understand Her nature in the context of cultures of different peoples. The ancient understanding of their truth-seeking systems is also particularly important for the development of modern science and technology.

1.4. The Nature of Human Life

Space and the Universe play an important role in most worldviews of the world's major religions. Understanding the models of perception of outer space and time systems of different peoples allows us to better understand their principles of development. This makes it possible to create more accurate models for simulating cognitive processes, which is crucial for the development of new technologies.

The nature of the human body plays a critical role in people's cognitive abilities. Understanding how different peoples perceive human nature allows us to better understand the cognitive characteristics of different cultures. This is important for the formation of discoveries legitimized by official science.

An important aspect of the Principled Model of Cognition is the study of the Space of the Universe in the context of the ability to understand the Nature of things. It offers a unique perspective on the relationship between human existence and the realm of scientific knowledge. It's opening new perspectives for studying human interactions with the environment. Thus, this model provides a unique opportunity to study both the person himself and his relationships with the outside world.

2. WISE OF MATTER or The Limits of Philosophical Thought [1].

Philosophy /from Greek. – love of wisdom/, as the highest achievement of the human mind, rises above all sciences! The modern Limit of its achievements is the TRIPLE LAW OF DIALECTICS, which consists of a cumulative understanding of:

- *Unity and Struggle of Opposites and Adequacy;*
- *Measures of transitions from Quantity to Quality and vice versa;*

- Negations of Negations with the best Repetition of what has already been repeated.

These three integral features of any natural process must never be separated from the simultaneity of their joint use. You can pay more attention to SOMEWHAT from the TRIAD, but it has to be never forgotten about THEIR necessarily common WORK. It is possible to clarify the TRINITY OF THIS THINK of the human mind through the application of the Principle of omnipresent processes of REFLECTION.

2.1. Let's start with the philosophical "core" of Dialectics /from the Greek. – I am conducting a conversation, an argument, the core principle of which is universal Connection/. It was consciously comprehended and is being comprehended with the help of the entire historically established system of categories and laws of Science. Therefore, from the perspective of the principles of Reflection, let's consider THIS law as follows.

Any Reflection is the result of the influence of Radiations, expressed as the “sum” of the Absorbed and Re-Emitted Parts of affecting Entropy to any object, i.e. the data of Its information and energy characteristics. The processes of Absorption and Re-emission are always opposite in direction and cannot exist separately, since the impact on the object is always generated by a single flow of Entropy of external environmental influences. At the same time, the qualitative characteristics of the Absorbed and Re-emitted parts of the influencing array are homogeneous, one might say, adequate. But only that part is absorbed that most correspond to the energy and information capabilities of the Body. This is precisely where the natural Unity of opposites and their Struggle for parts of the “Absorption” and “Re-Emission” of the influencing arrays of Entropy of events are manifested.

With this approach, having slightly expanded the scope of the semantic application of Reflection processes, we are convinced that the “core of dialectics” is a natural consequence of the principle of Reflections in the

extremely broad Law of CONTINUITY of natural movements of Matter in the spheres of Her Universal scales.

2.2. Quantitatively and qualitatively “Transitions” are determined by the MEASURE of the ratio of the Absorbed and Re-emitted parts of the external influences. At the same time, the “Comparison” operation inherent in Nature takes into account the degree of organization of the influencing Radiations and the “nature” of changes in the re-emitted parts of the general array of perceived impacts. In other words, these are their informational (predominantly qualitative) and energetic (predominantly quantitative) differences between the operating states of the System: Body-Environment. It’s memorized by any biological or nonbiological body. There are two very interesting features of the material states of Natural Systems:

1) The higher the degree of a System organization, the smaller the energy unit of the natural expenditure of the Body on the development of information of various kinds that is evolutionarily accessible to It, i.e. the speed of information absorption by the Body is higher than the speed of Its energy absorption possibilities for the same array of influencing Entropies.

2) The larger the conventional unit of energies of homogeneous information of entropic influences, which may be mastered by the Body, the lower the level of organization of Its work in a given System of lifebeing; those. the rate of information absorption by the Body is lower than Its rate of energy absorption.

Based on the difference in the rates of absorption (or re-emission) of energy and information characteristics of the general array of externally influencing Entropy, it's possible to formulate a criterion /from the Greek. – a means for judgment/ of mutual transitions between the quantity and quality of System-current processes.

A measure of the sufficient need for a transition from a certain quantity to a new (more highly organized) quality is the condition that the speed of

processing Information Entropy exceeds the speed of processing Its Energy Characteristics of impact;

and the reverse transition (to a less organized state) is due to the opposite attitude in the work of system processes over the same characteristics of the entropic organization into the habitat existence.

2.3. The cognitive side of the "Negation of Negations" in the "THRIUNE LAW OF DIALECTICS" is determined by the principle of Progressive or Regressive change in the organization of Reflections. It depends on the Systemically used degree of qualitative and quantitative transformations of awareness Entropy of events. These mean the orientation between Its informational and energetic characteristics. It's experienced by any of the Objects of Reflection of all accompanying phenomena in the environment of Their existence. In other words, each New repetition of mastered patterns opens up brighter aspects of the application of old knowledge about the difficult-to-count number of all possible variations in the reflex organization of Human memory. Its body, having such a rich experience of evolution, with great "troubles" masters the natural sphere of its own intelligent activity. This is the current stage in the formation of a new Consciousness of people.

2.4. Now more than eight billion people are living on planet Earth, of which more than seven billion are confessionary believers. There is no moral right to condemn the overwhelming majority since all of us emerged and grew from a historically established Culture, which is defined by the religious teachings of different countries and times. Today there is a moment of low popularity of Materialism because it is more difficult to live with It, and mastering Its "basics" is even more difficult. The clarity of ideals is lost, internal uncertainty appears, giving rise to the fear of "spiritual emptiness," etc. This all means that with the help of a verified-proven system of religious "Comprehensiveness", living and managing life is much easier than in the mode of mental wandering through the slums of the Universe.

The tendency of humans to "follow the path of least resistance" plays a big role here. A Power of Knowledge is generally recognized, but the Power of cognitive processes using is only gaining popularity. Therefore, any epistemological goal was set to equip people with a coherent system of Knowledge about Nature to combat the steady growth of Entropy in their spheres of habitat.

Quite a large number of principles of Movement have been cognized by the thoughts of Mankind. Only one fundamental principle of REFLECTION already makes it possible to effectively avoid the steady growth of Entropy (the tendency of closed systems towards disorder). The fight against It is the development and improvement of humans, the use of "open systems" with a highly organized Consciousness of advanced people of our time only, who are trying to compensate for the diverse manifestations of the "ecological results" of the emerging mind of Earthlings, are capable of this feat.

"Only a satisfyingly idealized Open Systems Improvement Principle can provide a slightly calming result for future generations. Only through large-scale measures to maximally preserve the Bio-Geosphere balances of the Living and the Dead can victory be achieved over the seeming chaos of the Universe. This art can only be mastered by people with a well-established ("no ceilings") understanding of the origins of the Cosmic nature of Life".

3. KNOWLEDGE MODELING or Wise Means of Teaching [1].

3.1. In the boundless World of reigning Entropy of omnipresent Movements, TWO PROCESSES are opposite in terms of the results of their work. THEY are defined and designated by the human Mind in the form of the most global Concepts of ANALYSIS and SYNTHESIS. THESE Categories form the basis for explaining the consequences of countless multiple and differently organized Reflections that accompany the processes of transformation of Matters of any Nature. All Objects, from the cosmic origins of the formation of Galaxies to any type of organization of the Living, owe their

existence to precisely THESE actions of diverse dismemberment and equally diverse combination. Thanks to that, a sufficiently high degree of organization of our "bodies" made it possible to identify and generalize, create the concepts of "Part" and "Whole", in "Which" the intermediate states of the studied phenomena of Nature can be consciously recorded in memory.

WHOLE – usually called the limit of the total generalization of the objectified System of material interactions chosen and established by the Organism's system of the mind. This can be the Body, the Substance, and the Field, as well as their joint formations. At the philosophical "heights" of comprehension, the concept of "The Whole" almost closely leads to the real understanding of the word "Ideal".

PART – the limits of the total separation of the previously determined Integrity (WHOLE) of the mastered processes of any System of both material and "non-material" interaction, which are considered accessible to humans.

3.2. A conclusion, based on THESE categories, there is a possibility to form fundamental definitions of the processes of Analysis and Synthesis accessible to Human awareness.

ANALYSIS is the division of a certain Whole into its Parts, and SYNTHESIS is, on the contrary, the reunification of certain Parts into a single Whole.

From all of the above, it follows that all Systems of Nature have at the basis of Its existence the total result of the interaction of THESE TWO global characteristics of any Movement. Therefore, any REFLECTION is based on the unity of these procession works of ANALYSIS and SYNTHESIS. In the research quest of the Human Mind, THESE DATA categories of science can be expressed by the following formula:

"ANALYSIS + SYNTHESIS = MODEL (REFLECTION)!"

3.3. The concepts of "Model" and "modeling" are relatively to new view for admirers of philosophy. But they have won and continue to win the wide

appreciation of scientists of our time and among the proven foundations of Epistemology. What explains this popularity? The fact is that the conscious use of theoretical and practical Models of the Object of knowledge is conditioned by the Integrity of the perception of Its parts. This allows us to get closer to the real work of the original processes under study. Thus, the constructed interpretation (mental or physically implemented) allows you to successfully use the results of cognitive activity.

3.4. As was previously said, any process in Nature is based on the principle of REFLECTION, which means that any research or knowledge is possible only based on Progressive Reflections. The principle of their work is described by the inextricable interdependence of the concepts of "Cause" and "Effect".

"A CAUSE is a phenomenon whose action causes, changes, leads or leads another phenomenon. The latter is called an EFFECT".

This relationship has its principle of reasoning:

From the SINGLE to the GENERAL and SPECIAL and after again: the SPECIAL becomes the usual SINGLE, then IT becomes GENERAL and the next step will be commenced for a New search of SINGLE.

3.5. THIS course of research is explained by two methods of reasoning: "Induction" /from lat. – guidance/ and "Deduction" /from lat. – excretion/.

INDUCTION is the conscious determination of explained Knowledge by the method of transition from the Individual to the General, through the Features of the first. This is a process of Predominantly Synthesizing generalization or leading to some Wholeness through the reunification of Its simpler Parts.

DEDUCTION is a conscious determination of explainable Knowledge using a transition from the General to the Particular through the identification of a new Unit of the previously unknown in the Well-Known.

This is the process of Predominantly Analyzing the generalization or presentation of some Wholeness through Its division into simpler Parts.

Thus, THESE CONCEPTS can describe the cyclic improvement of the modeled Information about the cognizable Object. THEIR joint work can be written as follows in an abbreviated mathematical form:

$$\begin{aligned} & \text{"INDUCTION (Predominantly Synthesizing Generalizations)} \\ & + \text{DEDUCTION (Predominantly Analyzing Generalizations)} = \\ & = \text{MODEL AWARENESS"} \end{aligned}$$

When there is a correlation between the models and the original, the PRINCIPLE OF PROGRESSIVE REFLECTION must be implemented through a set of Inductive and Deductive approaches to the Integrity of the cognizable processes of the relationship by the interactions of Analysis and Synthesis processes in the work of an Object under study.

3.6. Due to the uncertainty of encountering unknown phenomena of Nature, scientists have come up with two methods to combat it:

"ABSTRACTING /from Lat. – removal, distraction/ is the process of mentally singling out some and distracting from others Connections of the object of awareness."

"CONCRETE /from Lat. – condensation/ – the process of highlighting an object in its organic integrity, in all the diversity of its sides and connections".

This approach to Cognition is a conscious part of the PRINCIPLE OF PROGRESSIVE REFLECTION, the essence of which is the development of any Model from a qualitatively defined assessment of the real capabilities of human Organism to achieving a satisfactory level of ideas about the Entropy of the interested Phenomenon.

The evolution of the modeled ANALOGIES from abstraction to concretization goes through a four-stage path of obtaining Information:

1) Material and Ideal nature;

- 2) ***Energy and Information order;***
- 3) ***Physical and Chemical structure;***
- 4) ***Biological and Psychological action.***

It is very interesting here that the semantic background of the first words in the listed Pairs carries a predominantly analyzing orientation of research activity, and the use of the meaning of the second is a predominantly synthesizing approach to the same phenomena of the cognized.

It is also worth noting that the level of Abstraction obtained from the models used decreases as the ordinal number of the described sequence increases. This "fall" is accompanied by a concomitant increase in the specificity of information about the original being studied:

1) from real ("pure") abstraction to concrete abstraction through the use of predominantly philosophical tools of Cognition;

2) from concrete abstraction to abstract concretization with the help of a mathematically fixed expression of energy and information relationships in the subject of Cognition;

3) from abstract concretization to real concretization through physical and chemical experiments with Analogues of the simulated Processes;

4) from real concretization to the concrete reality of introducing the biological and sociological usefulness of the received Information into the practice of Psychological life of society.

The short formula looks like follows:

"ABSTRACTIZATION + CONCRETIZATION = REAL SIMULATION"

All four stages of cognition can be represented as "lenses" through which the System of objectified Matters is observed. The sequential summation of the "resolving abilities" of these "lenses" allows one to gradually increase and clarify the effectiveness of Information about the natural Entropy of the cognizing Object.

3.7. The concept of the word "Movement" – Absolutely /from lat. – certainly, unlimited/ by the nature of the meaning contained in it. The Movements of matter accompany all the immense diversity of natural phenomena, and without Them the existence of Something or Someone is impossible!

The global concept of "Memory" carries a meaning that determines the ability to record any Movements through the evolutionarily mastered organization of Reflection processes. "It" works on the principle of internal modeling of stable states of ordered Movement of any systems of Natural interaction.

3.8. The entire path of the cognitive approach to the Truth is accompanied by the accumulation and improvement of Knowledge. This is carried out thanks to the definition of STATIC /from the Greek. – standing, motionless/ and DYNAMIC /from lat. – power, moving/ characteristics of objectified Phenomena. Let us define THESE categories through the concepts of the words "Quality" and "Quantity". "They" are although an integral part of the TRINITY LAW OF DIALECTICS, still have "Their own" classical formulations:

"QUALITY is an undivided, integral set of signs and properties of a Phenomenon. It expresses ITS certainty in all sensory-concrete originality."

"QUANTITY is primarily the spatio-temporal properties of a Phenomenon, which are revealed only in its relationship with other phenomena."

A predominantly quantitative idea of the Object of cognition, through research activities using the Predominant Analysis method, will be sufficiently expressed by STATICS. The achievements of predominantly high-quality Knowledge obtained by the methods of Predominant Synthesis will be expressed by DYNAMICS.

Mastering the Dynamics and Statics of knowable Systems can be defined in other words:

the first (DYNAMICS) is determined by the Mind-created Environment of Cognition of the existing Entropy of objectified matter, the connections of which are considered exclusively in Movement;

and the second (STATICS) is determined by the necessity of "frozen" Conventions identified by the researcher, which means certain definitions or their combination, on the patterns of interaction of the receipt of new Information about the cognizable Object is based.

Let's briefly summarize the above:

"STATICS + DYNAMICS = KNOWLEDGE about the Real Object"

Static and Dynamic research methods make it possible for the Information obtained with their help to be called Knowledge about the orderliness and heterogeneity of the Entropy of the cognizable Phenomenon. The sum of such Knowledge acquires the dignity of scientific knowledge about the nature of the interested Object.

3.9. Where is the Criterion hidden sufficiency of Rational Knowledge? In the absolute relativity of Knowledge or in Their relative absoluteness? For clarity in understanding the second question, let us clarify that the concept of "Absolute" in all mass Religions carries the meaning of the unconditionally perfect Beginning of Existence in the form of "God". The concept of "Relativity" covers an even more limitless Meaning, Which is determined by the seeming limitlessness of the Cognition processes of the true Nature of the Phenomena being studied.

From this position, we will develop answers to the first question.

"ABSOLUTE RELATIVITY" of Knowledge about an Object is determined by the fact that in Nature everything is connected by processes of Reflection, and therefore, any Information obtained in the course of Cognition of any Phenomenon still does not cover some part of the Events that accompany this Phenomenon.

"RELATIVE ABSOLUTELY" expresses the fact that despite the global generalization of the Laws of Nature discovered by the Human Mind (such as the Law of Gravity, Conservation of Energy, etc.), They will undoubtedly be included as component "Parts" in the More General Infinity of laws that will be discovered and comprehended by future generations (such as the Triune Law of Dialectics).

Cognition and mastery of the Entropy of objectified Systems is carried out through the identification of conditionally idealized models of statics and the dynamics of Their existence. The totality of the acquired Knowledge constitutes a certain science that has its structure, based on the PRINCIPLES of specialization of their use.

"PRINCIPLE /from Latin – beginning, basis/ – the general starting points of any theory, teaching, science, worldview, political organization; the internal beliefs of a person that determine his attitude to reality, norms of behavior and activity; the fundamentals of the structure or action of any or a device, machine, etc."

The "PRINCIPLE" of any Model contains both Static and Dynamic information about the studied areas of Knowledge. At the same time, Statics will be quite successfully represented by Reasonable awareness of the STRUCTURE of the Object under study, and Dynamics – by conscious understanding of Its FUNCTIONS.

"STRUCTURE /from Latin – structure, arrangement, order/ – a set of stable connections of an Object that ensure its integrity and identity with Itself, i.e. preservation of properties under various external and internal changes"

"FUNCTION /from Latin – execution, implementation/ – activity, duty, work; external manifestation of the properties of any Object in a given System of relations"

The concept of "PRINCIPLE", in the "highest" sense of its use, determines the public and personal Worldview of people! That is why "ITS" Structures and Functions are "dead" without the creative Purpose that the Human Mind gives Them. From the above we can formulate a brief conclusion:

"STRUCTURE x PURPOSE = STATIC MODELING"

"FUNCTION x PURPOSE = DYNAMIC MODELING"

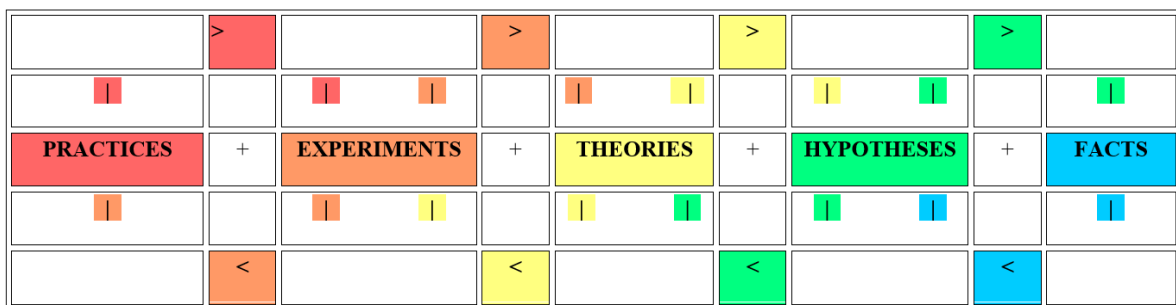
"(STRUCTURE + FUNCTION) x PURPOSE = MODELING PRINCIPLE"

4. COMPARISON OF FEEDBACKS or "Spirals" of the Knowledge Extractions [1].

The human body (in particular, the brain) is constantly engaged in Modeling because its activity is based on the reflex work of its Memory. Due to the conditions of working life, people always take the path of searching for known or yet unknown Knowledge and are faced with the need to study or discover new "Peaks" of true knowledge. These "Peaks" are based on the necessary models of intermediate results of any path of cognition. These models appear in the form of chains of the developing Meaning of several fundamental Concepts of epistemology (gnoseology).

4.1. The pivotal axis for orientation in the scientific search for Truth is the following chain of Their interactions:

DOMINATED ANALYSIS =>



<= DOMINATED SYNTHESIS

Fig. 1. The Main Core of Modern Cognition. © 2024 A. Herashchenko [1]

All the WORDS of this "spiral" are the foreign origin, but the Concepts of THEIR great meaning have long become international! Below we present the "classical" interpretations of THESE "foundations" of scientific Thought.

- ***"FACT /from Latin – done, accomplished/ – in the usual sense, this is a synonym for the concept of truth, event, result; knowledge, the reliability of which has been proven".***

- ***"HYPOTHESIS / from Greek – basis, assumption / – this is a scientific assumption that the true meaning (sense) is uncertain".***

- ***"THEORY /from Latin – observation, consideration, research/ – in a broad sense this is a complex of views, ideas, ideas aimed at interpreting and explaining a phenomenon;***

- in a narrower sense – the highest, most developed form of organization of scientific knowledge, giving a holistic idea of the patterns and essential connections of a certain area of the reality of the object of this theory".***

- ***"EXPERIMENT /from Latin – test/ – this is a method of cognition, with the help of which phenomena of reality are studied under controlled conditions. The experiment is carried out on the basis of Theory, which determines the formulation of tasks and the interpretation of Its results".***

- ***"PRACTICE /from Greek – activity/ – this is a material, goal-setting activity of people that allows mastering and transforming objective reality. It is the universal basis for the development of human society and knowledge".***

The concept of "Fact" is inherent in ALL of the categories mentioned: i.e. Hypotheses have their causal facts, Theories also collect and produce facts, and there is nothing to say about Experiments, but in Practice, they are difficult to count. It is from the practical facts of the accomplished phenomenon that the researcher launches a series of conscious comparisons of new data with information previously known to science. Based on this process, the Practical, Experimental, Theoretical, and Hypothetical uses of the results obtained are determined.

Given the scientifically irrefutable absence of analogs of the identified Fact, a global question is raised about the contact of Reason with completely unknown phenomena of Nature. The response to such a question is the process of identifying the degree of historical necessity for Cognition of a given phenomenon. Recognition of this need starts the chain of scientific research in reverse order. The first step is the construction of a Hypothesis: an attempt to connect disparate facts, to find cause-and-effect relationships, to create a generalized model of seemingly consistent views on the Objectified. Further improvement of the model is carried out using mathematical means of abstract interpretation of quantitative-qualitative relationships in the Research Object. These modeling tools allow us to create a Theoretical understanding of the information and energy characteristics of the Entropy of a cognizable Phenomenon. But any such Theory hangs in the "air of doubt" until it is confirmed by the results of physical and chemical Experiments based on the calculations of the put-forward Theory. After a series of successful experiments, theoretical conclusions are considered reliable if they coincide with experimental confirmation of the correct analogs of the "Original" being studied. These experiments provide the opportunity to create "Its" Physical and Chemical models. The criterion for the Truth of the Information received is determined by the usefulness of its Practical Application. The level of Psychobiological effectiveness of the mass use of acquired Knowledge gradually introduces this phenomenon into the ordinary life of modern society.

4.2. Awareness of the semantic transformations sequence of the concept "Connection" will help to better understand the process of Human research activity and the path of improving the obtained Knowledge. Different LEVELS of understanding of the semantic loads of the "Given" word are confined to the already familiar "Cognition Core". Therefore, it is necessary to streamline the sequence of application of "Its" categorical characteristics in the following form:

DOMINATED ANALYSIS =>>

	--- > > ---		---- > > ----		---- > > ----		---- > > ----	
	+		+		+		+	
(P) -	MEASURES of Connections	- (E) -	PROPERTIES of Connections	- (I) -	RELATIONSHIPS of Connections	- (H) -	CIRCUMSTANCES of Connections	- (F)
	+		+		+		+	
	--- << ---		---- << ----		---- << ----		---- << ----	

<<= **DOMINATED SYNTHESIS**

Fig. 2. The First Branch of the Cognitive Core. © 2024 A. Herashchenko [1]

In practical activities, people use the historically established and scientifically established Measures. The units of these Measures characterize the idealized minimum values of acquired knowledge about the cognizant. This is convenient to use in different spheres of life. If, however, a phenomenon falls into the area of distribution of human Practice that is not suitable for any of the known Measures, then, if they want to make a decision, researchers turn to Experimental actions to find out the Properties of this phenomenon and the promising possibilities of their practical use. If the result of such attempts is negative, normal people stop further search (these are “practitioners”), and abnormal people (these are people with a predisposition to science) turn to Theoretical Knowledge. To find out through the application of known laws of Nature what kind of relationship the phenomenon of interest has with the problems of Science and Technology.

When the Connection Relationships in this phenomenon have not yet been determined even by Hypothetical variants of Cognition, then a person stops at the question of clarifying the Conditions for the emergence of such a mysterious Fact of this phenomenon in general! Such a person is called a research scientist, and his thoughts begin to work in the opposite direction of the cognitive actions of the described chain of epistemological categories. They make the path from Fact to Hypothesis, then Theoretical modeling followed by verification by

Experiment. And only after these deals, do they propose an attempt to introduce new knowledge into the socio-biological environment of relationships between people.

4.3. The path of Intelligent creation of Knowledge originates from the discovery of the Connection of sufficient and necessary Conditions for the origin of the phenomenon being studied. Further, on their basis, follows the construction of a Hypothesis that explains this phenomenon. Then the information-energy Correlation of Connections in the Phenomenon objectified by the hypothesis is clarified, which leads to the formation of a Theoretical justification of Its Entropy. Using theoretically clarified Connection Relationships, the researcher designs physico-chemical Experiments. Comparison of Their results with the real Facts of the existence of the selected Phenomenon gives the right to judge the connections of Its natural Properties. If the Experimental confirmation of the proposed Theory is successful, a series of psycho-biological experiments is constructed to study the Practical application of the newly defined Connection Measures of the Phenomenon being studied. The usefulness of Connecting Proportionalities is determined by the minimum error of Their "single" idealization. Based on which the sufficient completeness of Knowledge about the natural Phenomenon under study is based.

The concept of the word "Meaning (Sense)" is the primary definition of any activity of voluntary thought of the human Organism. That is the researcher, using various means of scientific communication, always tries to express the internally reflected ordering of the information perceived by their own body. If what it expresses has a high degree of semantic similarity, then researchers understand each other and immediately create their own mutually acceptable CONCEPTS about the orderliness of the experienced and jointly experienced Events. From the above it follows that the SENSE OF CONCEPTS is a universal means of international communication. That is why this process of establishing various connections can be defined in the form of an

epistemological chain of the word “Meaning” perception: METHODS – LAWS – CATEGORIES – CONCEPTS.

DOMINATED ANALYSIS =>>>

	--->>>---	+	---->>>---	+	--->>>---	+	--->>>---	
	Measures of Connections		PROPERTIES of Connections		Relationships of CONNECTIONS		CIRCUMSTANCE of CONNECTIONS	
(P) -	+	-(E) -	+	-(T) -	+	-(H) -	+	-(F)
	METHODS of SENCE		Laws of SENCE		CATEGORIES of Sence		Concepts of Sence	
	---<<<---	+	---<<<---	+	---<<<---	+	---<<<---	

<<<= **DOMINATED SYNTHESIS**

Fig. 3. The Second Branch of the Cognitive Core. © 2024 A. Herashchenko [1]

The Evolutionary Practice of human communication has produced a great variety of “international” Words with an equivalent understanding of Their semantic load. This degree of Generalization distinguishes the vocabulary of scientific wisdom, using the words CATEGORAL / from the Greek. – statement, sign / Meaning. The cognitive use of the CATEGORAL word's significance allows the human Mind to record Its observations of Natural processes in the sense of the word “LAW”. The level of semantic generalization of “THAT” is explained by other CATEGORAL words, which have their dignity of universality within the framework of the objectified Cognition environment. The meaning of any LAW always reflects the necessary, essential and persistently repeating Connections of the Object under study. The perfection of the definition of their semantic load is characterized by the effectiveness of its application in hostel practice. This process is already carried out when using the word "METHOD". The meaning of “THAT” lies in the consciously ordered use of Concepts, Categories, and Laws of the covered sphere of Cognition. It should be noted that the improvement chain of cognizable CONNECTIONS,

determines the predominantly analyzing activity of the researcher. But the chain of the same detection of MEANING is predominantly synthesizing the direction of cognition. To this declaration, it should be added the following. The "CORE OF COGNITION" (F-H-T-E-P) determines the epistemological necessity of "Models" in the process of searching for information about the interested Phenomenon. "IT" expresses the intermediate results of the researcher's analytical and synthesizing activities.

4.4. Let's consider another chain of philosophical categories. The chain of NEED, FORM, CONTENT, and ESSENCE of any Phenomenon. The semantic volume of ambiguity in remembering the word "Phenomena" is undoubtedly the largest of those just given. "It" is quite equivalent to the modern concept of the word "Nature". Hence, there is an interesting discovery that the concept of PHENOMENON stands on a par with the purely theoretical concepts of "Matter" and "Ideal". Based on such a fundamental conclusion, we will construct a sequence of ITS gradual reincarnations.

DOMINATED ANALYSIS =>>>>

	ESSENCE of Phenomena	+	CONTENTS of Phenomena	+	FORMS of Phenomena	+	NECESSITY of Phenomena	
	--->>>---		--->>>---		--->>>---		--->>>---	
	Measures of Connections		PROPERTIES of Connections		Relationships of CONNECTIONS		CIRCUMSTANCE of CONNECTIONS	
(P) -	+	- (E) -	+	- (T) -	+	- (H) -	+	- (F)
	METHODS of SENCE		Laws of SENCE		CATEGORIES of Sense		Concepts of Sense	
	---<<<---	+	---<<<---	+	---<<<---	+	---<<<---	

<<<<= **DOMINATED SYNTHESIS**

Fig. 4. The Third Branch of the Cognitive Core. © 2024 A. Herashchenko [1]

The semantic evolution of THIS concept begins its journey from the Randomness of any Phenomenon falling into the field of activity of human

Consciousness. This may lead to the Necessity of this Phenomenon. Awareness of the NECESSITY of this Phenomenon leads to the discovery of Its FORM, followed by clarification of the CONTENT of this "formulated" Phenomenon. Then, developing the depth of the CONTENT of the studied FORMS of the cognizable Phenomenon, its ESSENCE is isolated, WHICH must satisfy the scientific level of knowledge. It seems that everything is reasonable and even in its place. But first impressions are often deceptive because the "spectrum of reliability" is hampered by the concept of the word RANDOM. The ancient sages defined its meaning with the saying: "Nothing happens by chance in life, there is only an unfound reason." Let's take their word for it and leave it to be torn to pieces by the mathematical theory of Probability, let's return to the described sequence of scientific means of epistemology.

In this version, THE CHAIN excludes the "anarchic" application of known Data about the ESSENCE, CONTENT, FORM and NECESSITY of the Phenomena being studied. Since the amount of information in the process of Cognition is constantly growing. It is very difficult to navigate in the search for Truth without THESE sequences of the generalization.

4.5. Next, let's look at a slightly unusual Chain of wise means of production, which immediately hints at the achievements of the "martial" Art of "militarized" thoughts of the cognizing Mind. But any Art is an expression of human Superconsciousness, and this means that the military field of Knowledge has something to use for the benefit and not to the detriment of people. First of all, let's present the "classical" definitions of the proposed range of the concepts:

- ***"OPERATION /from Latin – action/. This is: – 1) (military) a set of strikes, battles, battles, coordinated and interconnected in purpose, time and place, carried out by operational associations of one or more types of armed forces according to a single plan and plan for solving operational and strategic tasks; – 2) (in computer technology) the execution by a computer of any action on initial values (including their transmission) according to one of***

the program commands; – 3) a completed action or a series of interconnected actions aimed at solving specific task".

- *"POSITION /from Latin – position/. This is: -1) (military) strip (section, area) of terrain (water area), occupied or intended for occupation by troops (forces) and combat; as a rule, it is equipped in engineering terms; in land, In P. troops there are: advanced, main, reserve, cut-off, fire, expectant, starting, etc.; -2) point of view, attitude towards something; actions, behavior determined by this attitude; – 3) position, location of something (for example, pieces on a chessboard)".*

- *"TACTICS /from the Greek – the art of formation/. This is an integral part of the military art, including the theory and practice of preparing and conducting combat by formations, units (ships), and subunits of various types of armed forces; T. occupies a subordinate position in relation to operational art and strategy".*

- *"STRATEGY /from the Greek – strategist, in ancient Greece, a military commander, vested with broad military and political powers (in the modern sense – commander, leader of major military operations)/. This is the highest field of military art, covers the theory and practice of training the country and the armed forces for war, its planning and conduct, and explores the laws of war. It develops methods and forms of preparation and conduct of strategic operations, determines tasks for fronts, fleets, and armies, and distributes forces among theaters of military operations and strategic directions. The Strategy is uniform for the armed forces, and its recommendations mandatory for all branches of the armed forces".*

Based on humanitarian considerations, let's propose the following path of research: from STRATEGIES of Cognition, covering the noble aspirations of human activity and the thoughts of his Mind to TACTICAL definitions of the scope of "action combat theaters", on the territory of "which" the supporting POSITIONS of the cognitive work of scientists eager to move for OPERATIVE

use of the obtained results of the Search for the next true Knowledge about the Subject of Research.

Thus, for the already familiar scheme, there are: Cognition STRATEGIES, Cognition TACTICS, Cognition POSITIONS, and Cognition OPERATIONS; each of WHICH occupies ITS OWN field of predominant influence on the general course of research work.

5. SEARCH FOR IDEALS or Sequences of Approaching the Truth

5.1. A new degree of generalization of the Problems let's touch upon lies in the construction of a completely new MODEL of meaningful interaction of categorical means of Epistemology. For a conscious understanding of the gnoseological Unity of the described Words used in the PRINCIPAL COGNITION MODEL and the meanings They carry, let's introduce the previously unknown concept of "0"-PRINCIPLE ("zero-principle"). [1]

DOMINATED ANALYSIS =>>>>>

	ESSENCE of Phenomena	+	CONTENTS of Phenomena	+	FORMS of Phenomena	+	NECESSITY of Phenomena	
	--->>>>---		--->>>>---		--->>>>---		--->>>>---	
	Measures of Connections		PROPERTIES of Connections		Relationships of CONNECTIONS		CIRCUMSTANCES of CONNECTIONS	
(P)	+	-(E)-	+	-(T)-	+	-(H)-	+	-(F)
	METHODS of SENCE		Laws of SENCE		CATEGORIES of Sense		Concepts of Sense	
	---<<<<---		---<<<<---		---<<<<---		---<<<<---	
	OPERATIONS of Knowledge	+	POSITIONS of Knowledge	+	TACTICS of Knowledge	+	STRATEGIES of Knowledge	

<<<<<= DOMINATED SYNTHESIS

Fig. 5. The fourth branch of the Cognitive Core. © 2024 A. Herashchenko [1]

"0"-PRINCIPLE is an epistemologically complex SYSTEM of consistent interaction of thoughts and actions in the processes of studying

cognizable Objects. IT is based on the DIFFERENT TYPE organization of the Reflective capabilities of Human Memory.

Already was spoken repeatedly about the four-stage flow of the Cognition process, these are:

- 1) Materializing and Idealizing approach by Philosophy;***
- 2) Informatizing and Energizing approach by Mathematics;***
- 3) Physicizing and Chemicalizing approach by the Natural Sciences;***
- 4) Socializing and Biologizing approach by the Humanities.***

Since all these Stages separately do not represent holistically complete systems of General science but are only separately developing spheres of the basic process of Cognition. They cannot be defined as a universal Model that is described using an idealized chain: PRACTICE – EXPERIMENT – THEORY – HYPOTHESIS – FACT. Despite this, these Stages of Cognition determine the successive steps of the evolutionary development of Information about the sequence of Intelligent mastery of cognizable Objects in connection with the COMMON CORE of Epistemology. These processes are very dynamic, therefore, from the Information which is obtained by the mentioned sciences, intermediate models of practical, experimental, theoretical, hypothetical, and actual application in each of these areas are formed and produced. That is, any of the above Sciences has its own facts, hypotheses, theories, experiments and practices.

5.2. Let us divide the mutually dependent "Pairs" of the listed approaches according to the prevailing directions of using the spheres of "Their" influence:
[1]

- 1) on Sciences with a predominantly Synthesizing focus of Its application, i.e. using to a greater extent Idealizing, Informatizing, Chemicalizing and Psychologizing methods of obtaining new Knowledge;***

• 2) *and Sciences with a predominant Analyzing orientation of Their actions, i.e., using Materializing, Energizing, Physicalizing, and Biologizing methods for extracting the same Knowledge about the Object under study.*

From the above let's give the following conclusion:

PREDOMINATED CHARACTERS OF ANALYSIS OR SYNTHESIS PROCESSES determine the Method of bringing the cognitive thought of researchers closer to the Truth, regardless of the means of any branch of scientific knowledge!

5.3. What is the predominance of these processes? What is the PRINCIPLE OF DOMINANCE based on in general? Let's answer the second question first.

In Genetics, there are concepts of Dominant (suppressive) and Recessive (receding) characteristics of any Organism. Based on these concepts, two patterns of hereditary transmission of Its characteristics are explained.

1. In the first generation, the inheritance is externally expressed in the Dominant trait, hiding possible Recessivity within the external manifestations of the form.

2. In the second generation of the offspring of the original "material" the Dominant manifests itself in the ratio "3:1". There are three species with a clear manifestation of "Suppressive" characteristics and one with an external manifestation of "Retreating". This law is fulfilled under the condition of clearly defined unambiguity of the Initial characteristics of the parents. It is called "monohybrid crossing".

In the discussed case of the interaction of the Meanings of the previously described "Chains" of Cognition, the defining feature of the original Word Combinations is the Monohybrid of their "parents", i.e. unambiguity of the original meaning of the "parent-root" characteristics. This determines the result of the dual interweaving of the semantic fields of "their" pairwise organized Understanding. The unification of the used Categories into epistemological

“Chains” was carried out by highlighting the Recessive feature of the defining Word, which characterizes the common understanding of the semantic load of phrases of any of the “Chains”. At the same time, the joint use of semantic meanings will be determined by the Dominance of the main stage of the corresponding Stage of cognition and the Recession of the meaningful features of the “Other” remaining Stages. Each Pair is capable of uniting various stages of fragmentarily selected moments of the semantic sphere of Its application. The dominant trait at any of the four Stages becomes Recessive in relation to the new Dominant, determined by the different nature of the reflex memory of the researchers. This is meant an emphasis on another stage of modeling the cognizable.

The interpretation, without visual support from an abstract model, is practically doomed to misunderstanding, because such a level of generalization is very unusual, and for many, supernova. Therefore, let’s try to approach the understanding of what is being explained from the standpoint of a visual expression of the semantic load of the “0” PRINCIPLE.

5.4 Let, on the one hand, the path of knowledge from “Pure Practice” to “Pure Fact” pass through four Predominant-analyzing stages, i.e. from the “biological” abilities of our Organism to the possibilities of Its “physical” use, with the subsequent ascent from the field interactions of its perception (“energetics”) to the conviction of the “materialism” of the researched object related to the work of cognizing Mind. These areas are dominated by: in the first – “life economics” (in particular, Medicine); in the second – natural sciences (Physics and Chemistry); in the third – Computer Science and Energetropics, and in the fourth – Philosophy and Religion. Each of these scientific branches of the single tree of Knowledge has the opportunity to penetrate into other sciences in order to support or destroy the truth of their system of Knowledge. This means that at certain moments in the progress of research work at One of the four Stages, between the intermediate models of any Knowledge, signs of

Domination and Recession of the received Information meaning begin to operate. The process is conditioned by the scientific approaches of the three remaining Stages for the global Stages of Cognition. Thus, there is a research interaction between different sciences, which generates new Knowledge about the Object of interest. The sequence of such relationships is accompanied by certain signs of Dominance:

- *the transition from Purely Practical data to Purely Experimental data has Psycho-Biologized characteristics;*
- *transition from Pure Experiment to Pure Theory – Psycho-Chemical characteristics;*
- *from pure Theory to pure Hypothesis – Information and Energy characteristics;*
- *from pure Hypothesis to pure Fact – Materially Idealized characteristics.*

All these signs have the dignity of Dominance in the "strip zones" of the transition they defined. Each of "these zones" has its own chains of circulation from practice to fact and back. There are own transitions here, which are accordingly determined by "their" dominant and recessive characteristics.

5.5. If explain the "0" PRINCIPLE works in more detail, the process will be similar to the genetic concept of "dihybrid crossing". Its essence is expressed as follows:

- *The primary perception of the Object of interest is determined by the Dominant Feature, which characterizes the "band zone" of the Knowledge used.*
- *With secondary internal perception (the second generation of word comprehension) of the same Object, a whole set of Information is born with the manifestation of Dominant and Recessive characteristics of combination in the following numerical ratio: "9:3:3:1".*

- *"9 variants have the external manifestation of the first dominant characteristic.*
- *3 – have a second dominant feature.*
- *3 – have the first recessive feature.*
- *And only 1 has the dignity of completely recessive traits (unnoticed by the novelty of the Meaning of old concepts".*

5.5.1. Of the Nine first impressions, only One process has mutual purity of Domination. The rest carry the internal "flaw" of recessiveness (by the way, which determines further research).

Four out of nine have the dignity of the generally accepted dominance of one of the original words, i.e. idealized ("unambiguous") for the system of global education.

The other two characterize the purely visible dominance of the trait of the first word and the pronounced Dominance of the second but with the hidden "defect" of recessivity of the second.

The other two are the opposite: "good" Dominance of the sign of the second word and "defective" of the first. Here the principle of DOMINANCE of one semantic Recessiveness over another, one semantic Dominance over another is manifested.

5.5.2. Of the Three "hybrids" determined by the combination of the First dominant with the second recessiveness, only one has a certain "purity" of Recessivity, and the remaining two are a hidden defect determined by the dominant of the first trait.

5.5.3. Of the following Three "crossing" epistemological words of categorial meaning, through a combination of the visually expressed Recessiveness of the first sign and Dominance of the second, only one "hybrid" has complete purity of recessiveness and the same shade of dominance. The remaining two are "defective" in the dominance of the second characteristic.

5.5.4. A complete set of recessive characteristics, determined by the initial attempt to understand the final Fact of the unknown, perceived by the awareness of the Phenomenon, inherent only in a single possible combination. This is what characterizes a meeting with a completely unknown Object of Nature.

5.6. According to the volume-represented model, the "0"-PRINCIPLE is based on 4 types of reflexes of the Social kind, 3 types of the Conditional kind, 2 of the Unconditional kind, and 1 of the Genetic kind. [1] Each Reflex consists of a closed ring of respectively organized processes of Analysis and Synthesis. The described Model is formed and driven by the Managerial type of reflexive processing of experienced Events. This process provides an expanded understanding of the components of the overall structure of reflexes.

The "0" PRINCIPLE has six "FACES"! [1] Let's consider the operating principle of "EACH" taking into account the 1st law of Genetics as follows:

5.6.1. *The "facet" of predominantly Pure analysis determines the organization and use of the semantic diversity of the word CONNECTION by crossing ITS semantic fields with the understanding of Measures, Properties, Relations and Conditions for the emergence of a cognizable Object. It looks like Fig. 6 explains. (See Fig. 6.)*

(E.p)	+	(E.e)	+	(F.t)	+	(E.h)	+	(C.F)
+	UNKNOWN Conditions of Connections	+	NEW Conditions of CONNECTIONS	+	OLD CONDITIONS of Connections	+	KNOWN CONDITIONS of CONNECTIONS	+
(H.p)	+	(H.e)	+	(H.t)	+	(CH)	+	(H.f)
+	UNKNOWN Relation- ship of Connections	+	NEW Relation- ship of CONNECTIONS	+	OLD RELATION- SHIP of Connections	+	KNOWN RELATION- SHIP of CONNECTIONS	+
(T.p)	+	(T.e)	+	(CT)	+	(T.h)	+	(T.f)
+	UNKNOWN Properties of Connections	+	NEW Properties of CONNECTIONS	+	OLD PROPERTIES of Connections	+	KNOWN PROPERTIES of CONNECTIONS	+
(E.p)	+	(CE)	+	(E.t)	+	(E.h)	+	(E.f)
+	UNKNOWN Measures of Connections	+	NEW MEASURES of Connections	+	OLD Measures of CONNECTION	+	KNOWN MEASURES of CONNECTIONS	+
(C.P)	+	(P.e)	+	(P.t)	+	(P.h)	+	(P.f)

Fig. 6. The First Sight of the "0"-PRINCIPLE Cube. © 2024 A. Herashchenko [1]

5.6.2. *The “facet” of Pure Analysis determines the movement of research thought from Biological comprehension of the essence of the Known through the Physical and Energy approaches of scientists to the Materialistic comprehension of objective information about the Connections under study. It looks like Fig. 7 explains. (See Fig. 7.)*

(E.p)	+	(E.e)	+	(F.t)	+	(E.h)	+	(C.F)
+	UNKNOWN Conditions of Connections	+	NEW Conditions of CONNECTIONS	+	OLD CONDITIONS of Connections	+	KNOWN CONDITIONS of CONNECTIONS	+
(H.p)	+	(H.e)	+	(H.t)	+	(CH)	+	(H.f)
+	UNKNOWN Relation- ship of Connections	+	NEW Relation- ship of CONNECTIONS	+	OLD RELATION- SHIP of Connections	+	KNOWN RELATION- SHIP of CONNECTIONS	+
(T.p)	+	(T.e)	+	(CT)	+	(T.h)	+	(T.f)
+	UNKNOWN Properties of Connections	+	NEW Properties of CONNECTIONS	+	OLD PROPERTIES of Connections	+	KNOWN PROPERTIES of CONNECTIONS	+
(E.p)	+	(CE)	+	(E.t)	+	(E.h)	+	(E.f)
+	UNKNOWN Measures of Connections	+	NEW MEASURES of Connections	+	OLD Measures of CONNECTION	+	KNOWN MEASURES of CONNECTIONS	+
(C.P)	+	(P.e)	+	(P.t)	+	(P.h)	+	(P.f)

Fig. 7. The Second Sight of the "0"-PRINCIPLE Cube. © 2024 A. Herashchenko [1]

5.6.3. *The "facet" of a purely Predominant analysis contains "in itself" the structure of combat operations with the general process of research that is determined by the interweaving of semantic loads of another chain of epistemological categories: Operation, Position, Tactics, and Strategy, in conjunction with the DOMINANCE concept of the word COGNITION. It looks like Fig. 8 explains. (See Fig. 8.)*

(E.d)	+	(E.e)	+	(E.f)	+	(E.h)	+	(E.f)
+	UNKNOWN Strategies of Knowledge	+	NEW Strategies of KNOWLEDGE	+	OLD STRATEGIES of Knowledge	+	KNOWN STRATEGIES of KNOWLEDGE	+
(H.d)	+	(H.e)	+	(H.t)	+	(CH)	+	(H.d)
+	UNKNOWN Tactics of Knowledge	+	NEW Tactics of KNOWLEDGE	+	OLD TACTICS of Knowledge	+	KNOWN TACTICS of KNOWLEDGE	+
(T.d)	+	(T.e)	+	(CT)	+	(T.h)	+	(T.d)
+	UNKNOWN Positions of Knowledge	+	NEW Positions of KNOWLEDGE	+	OLD POSITIONS of Knowledge	+	KNOWN POSITIONS of KNOWLEDGE	+
(E.d)	+	(CE)	+	(E.t)	+	(E.h)	+	(E.d)
+	UNKNOWN Operations of Knowledge	+	NEW Operations of KNOWLEDGE	+	OLD OPERATIONS of Knowledge	+	KNOWN OPERATIONS of KNOWLEDGE	+
(C.P)	+	(P.e)	+	(P.t)	+	(P.h)	+	(P.d)

Fig. 8. The Third Sight of the "0"-PRINCIPLE Cube. © 2024 A. Herashchenko [1]

5.6.4. The "facet" of a purely Prevailing synthesis makes it possible to define and produce Knowledge through the creation of a new MEANING of cognizable processes THAT intersects with the epistemological chain of awareness of Concepts, Categories, Laws, and Methods of existence and Awareness of these processes. It looks like Fig. 9 explains. (See Fig. 9.)

(p.F)	+	(f.E)	+	(f.T)	+	(f.H)	+	(C.F)
+	UNKNOWN Meaning of Concepts	+	NEW MEANING of Concepts	+	OLD Meaning of CONCEPTS	+	KNOWN MEANING of CONCEPTS	+
(h.P)	+	(h.E)	+	(h.T)	+	(C.H)	+	(h.F)
+	UNKNOWN Meaning of Categories	+	NEW MEANING of Categories	+	OLD Meaning of CATEGORIES	+	KNOWN MEANING of CATEGORIES	+
(t.P)	+	(t.E)	+	(C.T)	+	(t.H)	+	(t.F)
+	UNKNOWN Meaning of Laws	+	NEW MEANING of Laws	+	OLD Meaning of LAWS	+	KNOWN MEANING of LAWS	+
(e.P)	+	(CP)	+	(e.T)	+	(e.H)	+	(e.F)
+	UNKNOWN Meaning of Methods	+	NEW MEANING of Methods	+	OLD Meaning of METHODS	+	KNOWN MEANING of METHODS	+
(C.E)	+	(p.E)	+	(p.T)	+	(p.H)	+	(p.F)

Fig. 9. The Fourth Sight of the "0"-PRINCIPLE Cube. © 2024 A. Herashchenko [1]

5.6.5. *The “face” of pure Synthesis helps to create a new organization of ideas about the Object under study. These move along the path of the combinational movement of thoughts from the Idealization of the unknown primacy of phenomena through the Informatizing and Chemicalizing approaches of science to the Psychological usefulness or harmfulness of Cognitive processes. It looks like Fig. 10 explains. (See Fig. 10.)*

(p.F)	+	(f.E)	+	(f.T)	+	(f.H)	+	(C.F)
+	UNKNOWN Meaning of Concepts	+	NEW MEANING of Concepts	+	OLD Meaning of CONCEPTS	+	KNOWN MEANING of CONCEPTS	+
(h.P)	+	(h.E)	+	(h.T)	+	(C.H)	+	(h.F)
+	UNKNOWN Meaning of Categories	+	NEW MEANING of Categories	+	OLD Meaning of CATEGORIES	+	KNOWN MEANING of CATEGORIES	+
(t.P)	+	(t.E)	+	(C.T)	+	(t.H)	+	(t.F)
+	UNKNOWN Meaning of Laws	+	NEW MEANING of Laws	+	OLD Meaning of LAWS	+	KNOWN MEANING of LAWS	+
(e.P)	+	(CP)	+	(e.T)	+	(e.H)	+	(e.F)
+	UNKNOWN Meaning of Methods	+	NEW MEANING of Methods	+	OLD Meaning of METHODS	+	KNOWN MEANING of METHODS	+
(C.E)	+	(p.E)	+	(p.T)	+	(p.H)	+	(p.F)

Fig. 10. The Fifth Sight of the "0"-PRINCIPLE Cube. © 2024 A. Herashchenko

5.6.6 The "face" of the pure Dominantly Synthesis creates popular interpretations of the mastery levels of the Researched. This defines the semantic evolution of the word PHENOMENON which describes the depth of knowledge in ITS comprehensive interconnections with the Necessities, Forms, Contents, and Essences of the Researched Object. It looks like Fig. 11 explains. (See Fig. 11.)

(f.P)	+	(f.E)	+	(f.T)	+	(f.H)	+	(C.F)
+	UNKNOWN Necessities of Phenomena	+	NEW Necessities of PHENOMENA	+	OLD NECESSITY of Phenomena	+	KNOWN NECESSITIES of PHENOMENA	+
(h.P)	+	(h.E)	+	(h.T)	+	(C.H)	+	(h.F)
+	UNKNOWN Forms of Phenomena	+	NEW Forms of PHENOMENA	+	OLD FORMS of Phenomena	+	KNOWN FORMS of PHENOMENA	+
(t.P)	+	(t.E)	+	(t.T)	+	(t.H)	+	(t.F)
+	UNKNOWN Contents of Phenomena	+	NEW Contents of PHENOMENA	+	OLD CONTENTS of Phenomena	+	KNOWN CONTENTS of PHENOMENA	+
(e.P)	+	(e.E)	+	(e.T)	+	(e.H)	+	(e.F)
+	UNKNOWN Essences of Phenomena	+	NEW Essences of PHENOMENA	+	OLD ESSENCE of Phenomena	+	KNOWN ESSENCE of PHENOMENA	+
(c.P)	+	(p.E)	+	(p.T)	+	(p.H)	+	(p.F)

Fig. 11. The Sixth Sight of the "0"-PRINCIPLE Cube. © 2024 A. Herashchenko [1]

Above, the fundamental interactions of the "VOCABULARY" stock of Epistemology were defined. But it should be noted that the basis of human life, and indeed of any Organism, are REFLEXES. Without THEIR balanced formation, Life in Nature, especially Its Cognition, is impossible!

Conclusion. The fundamental model of cognition can play an important role in modern scientific development and technologies for the improvement of the Earth's water industry. Understanding the experience of different cognitive models allows us to better re-think the nature of Truth and create more accurate simulations of It to improve modern knowledge. In light of modern discoveries,

the study and mastery of this model of cognition is a useful aspect of the development of modern technologies for producing correct knowledge about the Existence of Nature.

It represents an innovative approach to studying the main categories of epistemology, opening new perspectives for developing a true understanding of the life being. With its help, you can dive deeper into the essence of the interaction of matters and spiritual values of scientists and ordinary people. It also expands the horizon of the processes of cognition of the Truth to master new heights of social and technological progress. This will positively impact young people's education and the achievement of useful results in the activities of the modern human generation.

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