THE ALPHABET OF THE ART OF THINKING

THE UNIVERSAL LANGUAGE

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FIRST STAGE OF COMPLEXITY

We live in a world of information that doubles at a phenomenal speed and our logic becomes incapable of processing this huge wave. The binary logic used in computer networks can no longer cope. We have, though, a new alternative – more sophisticated logics.

- **The trivalent logic**

The great secret of thinking is related to the uncoding/desciphering of Nature's logics. In time many logics have been tried: binary, tetravalent (quantum computing), fuzzy, etc. but none come close enough to the logic of Nature. You will judge for

yourselves the attempt in this respect using trivalent logic. Any new system of thought is assimilated with difficulty because the brain used to another logic does not have capacities trained to process something different. That is why, at least in the beginning, you must analyse the information with patience.

The trivalent logic starts from many historical sources, from the biblical triad – Father, Son, Holy Spirit – to the research on dissipative systems carried out by Chemistry Nobel Prize laureate, Ilya Prigogine. From the latter's perspective, any phenomenon can be characterised by:

- a source, from where it draws it's power, it's energy;
- a sensor which evaluates the influence of the phemenon upon the environment;
- a decident which evaluates the possible solutions for the future development of the phenomenon

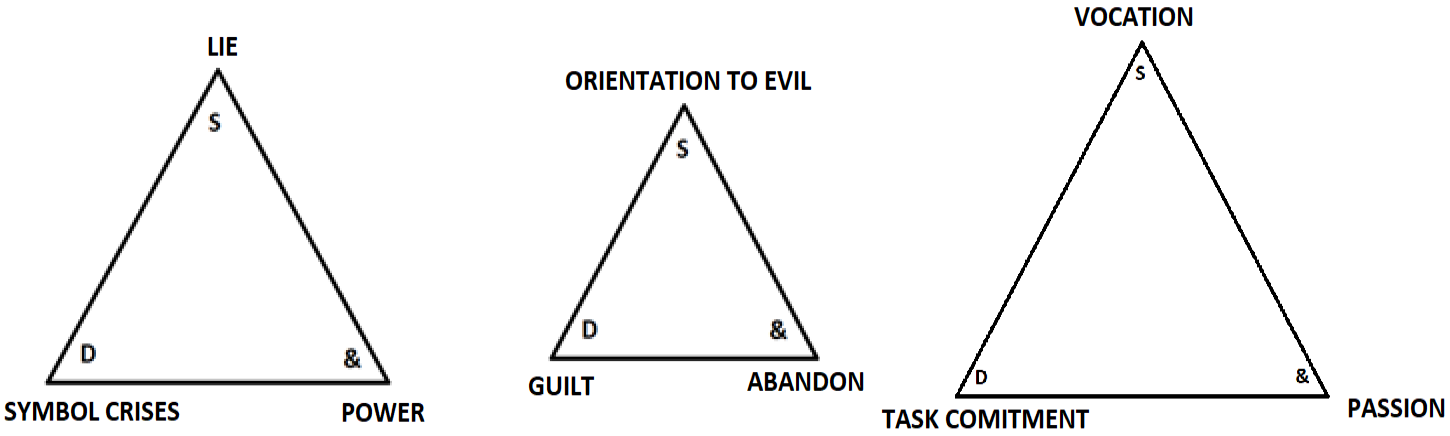


Fig. 1 Trivalence example

In the above diagrams we see that the lie feels the power – characteristic for the political environment – and also that power loads itself with symbols.

At a closer anaylisis we reach the following conclusions: after the lie has gained power, this overwhelms it and does not know how to use it, and that is why it retreats within a symbol.

On the other hand, if one has been lied to during childhood and has been acted upon forcefully, these lead the person toward the need to retreat behind a symbol.

The last valence shows that power and the permanent crisis of the symbol to which he is exposed to lead to lying/dishonesty.

The other triplets can also be anaylsed using the same logic.

An essential detail in the trivalent logic is the following: any two contents from the tips of a triangle generate the third.

For instance, guilt and abandonment generate the orientation towards bad things; guilt and the orientation towards bad things generate abandonment; and the orientation towards bad things and guilt generate abandonment.

The trivalent logic's capacity to determine the causes of a phenomenon is easiliy noticed.

The trivalent logic generates a qualitative mathematics that has specific operators, as follows:

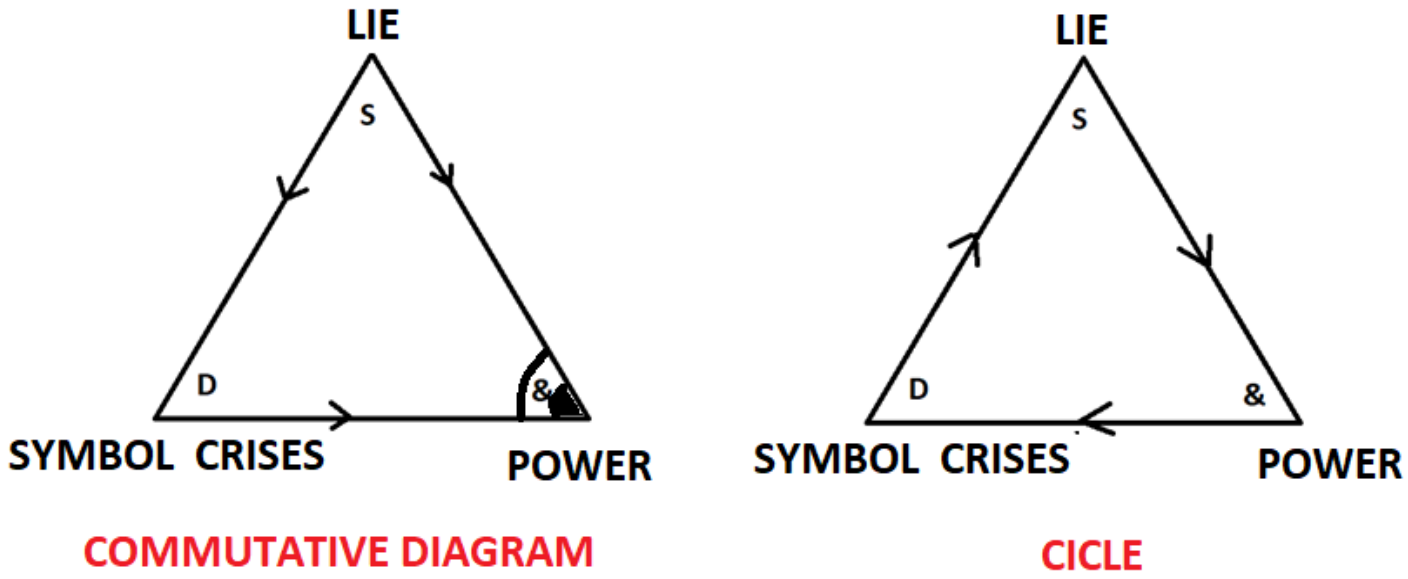


Fig. 2 The directions of the arrows and understanding their meanings

The directions of the arrows are extremely important in understanding semantic phenomena.

For instance, the power's lie/dishonesty is completely different from the dishonesty of power, from a semantics point of view. The arrows' directions also have their complex logic.

The power's dishonesty and the symbol crisis dishonesty generate the power symbol crisis.

This statement deserves a comment.

The most handy and well-known symbol is money. The power's dishonesty concerning money is related to the fact that power generates as much money as it desires. This phenomenon is currently more powerful, because money has become immaterial and has been replaced by bytes.

The symbol (money) crisis applied to the power generates the power symbol crisis. In other words, inflation generates uprisings or revolutions.

The semantic content/meaning of the three vectors also mutually generates eachother: thus, the dishonesty of the symbol crisis (of money, which although it is symbolic, it has lasted for millennia without ever being in a major crisis), applied over the power symbol crisis (we have no money) generates the power's dishonesty (the case of the commutative diagrams). The power (the convergence point of the arrows) is based upon the symbol crisis and the power's dishonesty.

In the case of cycles, the trivalent logic helps us understand the mechanisms of a phenomenon's amplification. Thus, the dishonesty of the power crisis generates the power's dishonesty, which in turn

generates the power symbol crisis, and the cycle is repeated.

Applied to any phenomenon, the trivalent logic is the logic of Nature.

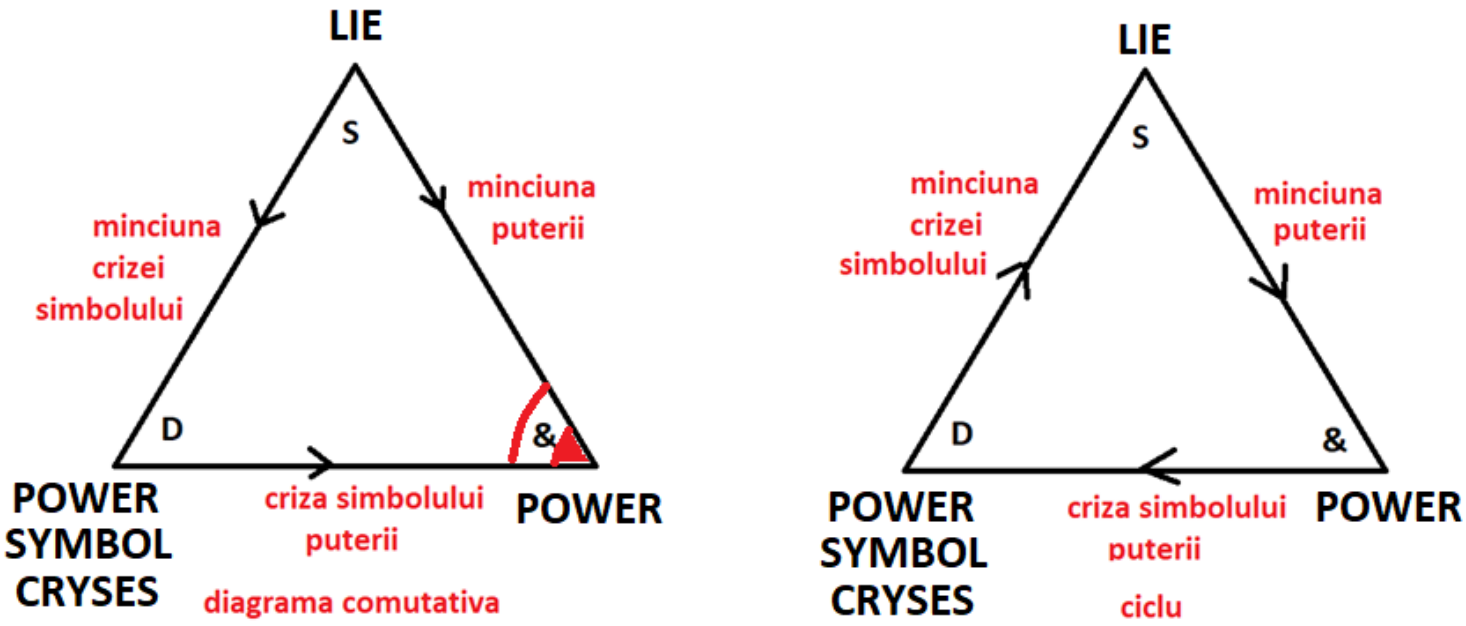


Fig.3 Examples of trivalent thinking

If binary/bivalent logic has determined us to permanently compete with eachother (more, more powerful, more intense, etc.), the trivalent logic requires of us more of a responsible and cooperative behaviour.

The manner in which we think always marks our existence and actions. For instance, money which has appeared as a symbol of distrust and power, and which has lead to competition (more distrust and more power) can be replaced.

For example, we could imagine and even develop a currency of cooperation, that will not be accumulative. This currency, which is also virtual, will be in finite quantity and will be donated annually to each person once a year, but will have a ’life span’ of just one year for the amount not invested (or another time period determined by the bank). Because it cannot be accumulated, this currency will have to be invested in programs and projects. Among other advantages, this currency will help people repay mutual debts, it will lead to collaborative actions among people, and develop solutions and activities for re-balancing and solving crises.

Our mental map and the associations we mentally make can be determined and understood with the help of trivalent logic.

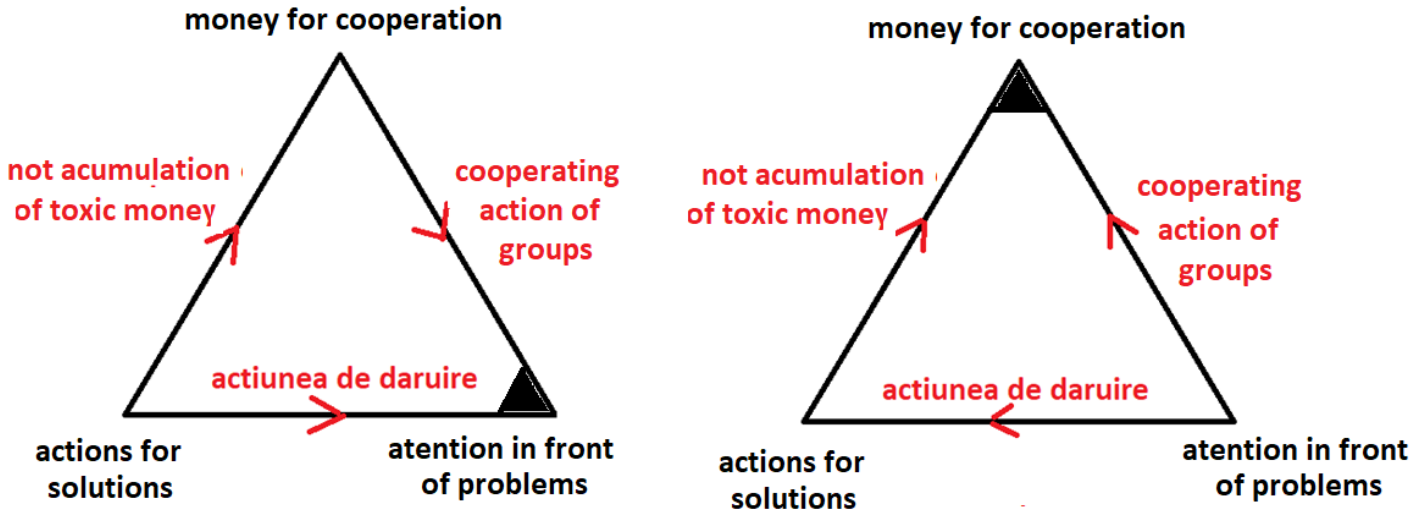


Fig. 4 The currency for solving crises

The analysis can be resumed with each of the two semantic triplets:

- the currency for cooperation, attention toward problems, actions for solving the respective problems

- non-accumulation of toxic currency, group action, the act of giving/offering

Such actions and currency in finite quantity (bitcoins) already exist, so the seeds of problem solving are there. What's remarkable, is the fact that the currency of cooperation, not being tied to resources or work, is also impossible to enter into a crisis, and

instead produces beneficial effects leading people toward direct involvment in solving existing problems.

A mid-way conclusion is that trivalent logic is natural for life, for beings from any species – including man, but it has not been trained to make a conscient being out of man. On the other hand, the analysis of the possible consequences of an undertaking made with the help of trivalent logic could enable us to avoid potential negative or catastrophic consequences.

- **Feedback**

We need artificial intelligence to solve human problems, but there is a great risk, that of ignoring our own intelligence and remaining childish. The solution is to create the conditions of feedback among humans, technology, society and the natural environment, by using the logics of Nature.

The feedback is also an essential component of the art of thinking.

We owe the feedback loop to the mathematician of antiquity, Papus, and it is as follows:

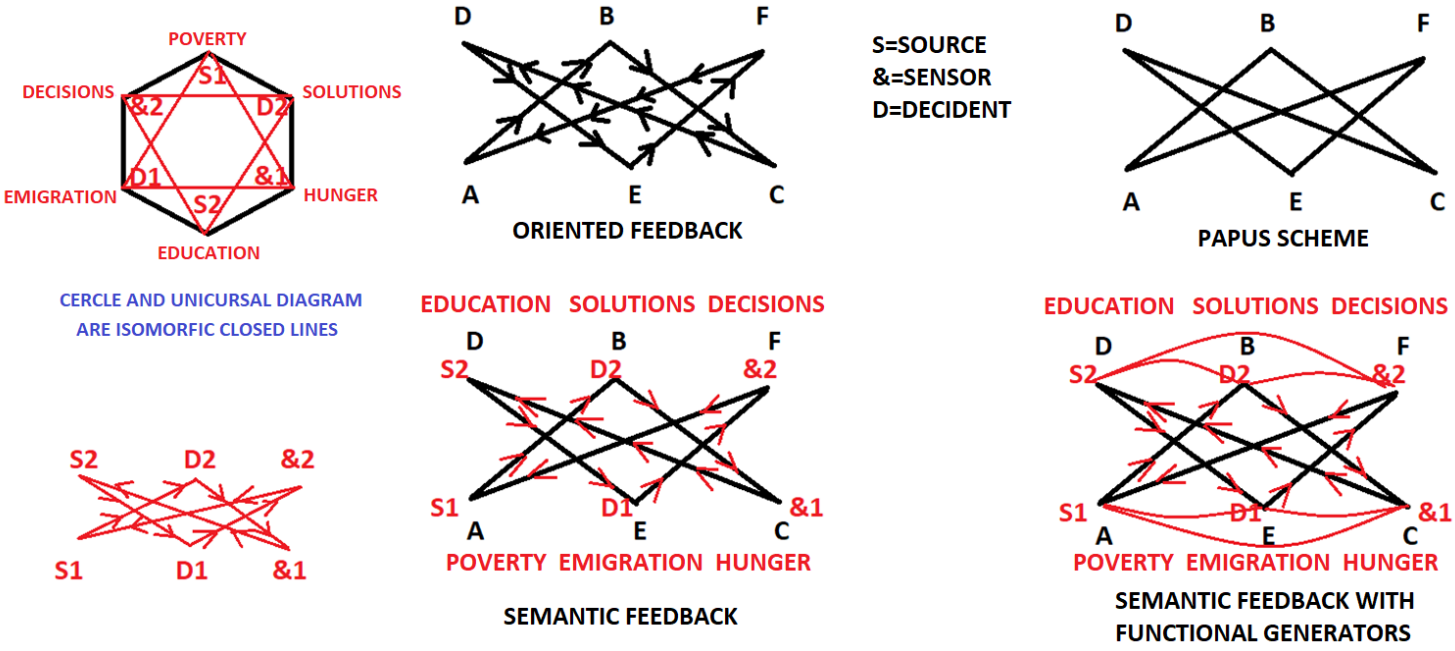


Fig. 5 The feedbacks

Meanings were added on Papus' diagram in various stages:

- in the first stage the diagram had direction, was oriented – we know now how important the direction of an arrow is;

- in the second stage semantic values were added on the two traingles that each form a structure with a trivalent logic with no direction/orientation

- in the third stage the functionalities of the nodes/tips were established: source, sensor, decident

on each node/tip of the semantic feedback (feedback with meaning)

- in the fourth stage the causal functionalities were identified (what, how, why, where, when) due to which a phenomenon or behaviour took place within the semantic feedback with functional generators

For instance, in the above diagrams we have:

- education and solutions solve hunger
- education and determination diminish emigration
- solutions and determination diminish poverty
- poverty and emigration strengthen determination
- poverty and hunger lead to the search for solutions
- education and hunger strengthen the need for education

What is remarkable is the fact that the angle at which we view reality unveils hidden data (the unicursal diagram).

At a semantic analysis, we notice that the applicable logic is the following:

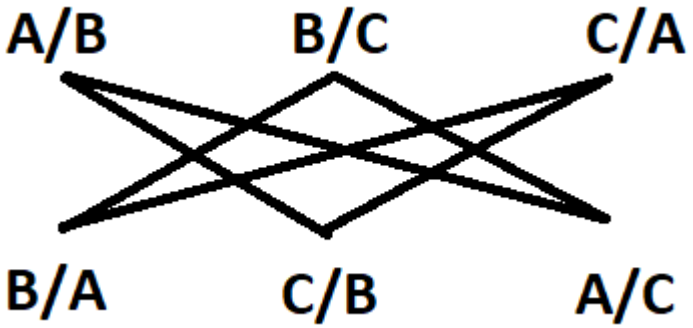


Fig.6

- education B/A and poverty A/B are polar/opposite

- emigration and the solutions are polar/opposite

- hunger and detremination are also polar/opposite

Each of these poles/opposites show how the current problems can be solved.

Although this manner of thinking can be extremely difficult for people, it is normal for artificial intelligence. For this reason, artificial intelligence can be extremely useful in certain areas, even inevitable.

- **The hexavalent diagram**

Reality has multiple facets, there are features that cannot be easily noticed, but which open different perspectives on reality. The significant details and behavioural or structural patterns replace numbers in the qualitative analysis given by the multiple logics.

The feedback loop and the hexagonal diagram have similar contents up to a certain point, but subsequently each derives different features at another level.

When there are two triangular diagrams with a trivalent logic, a hexavalent logic is derived from the trivalent one, which generates new functionalities:

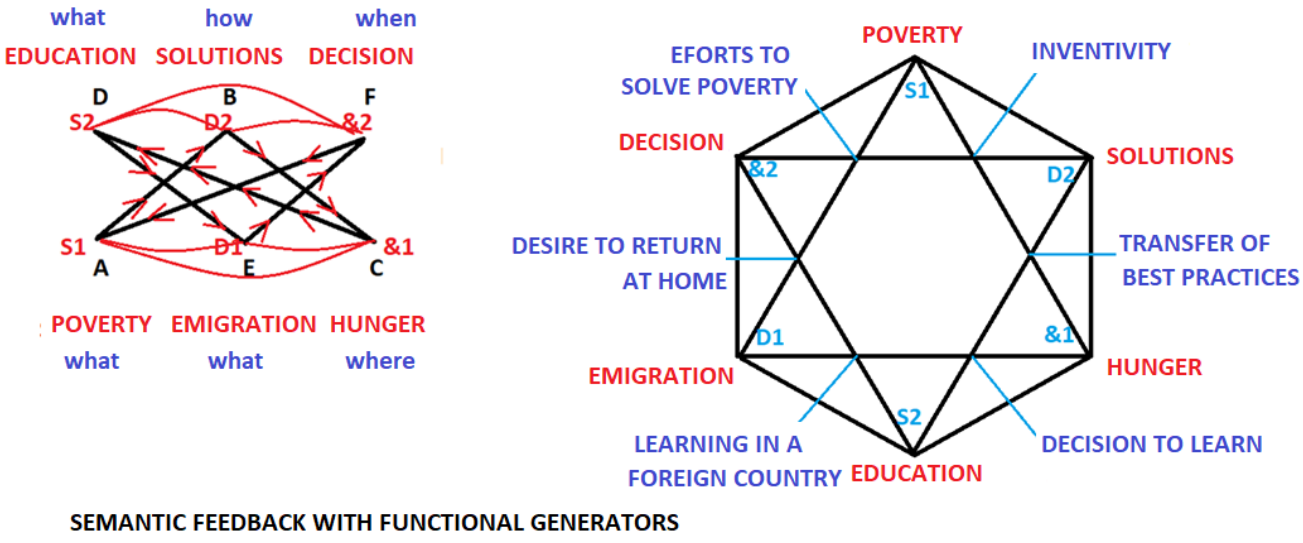


Fig. 7 Hexagonal diagrams

We notice that the interference of two triangular structures with ternary/triple logic generate two other triangles with ternary logic:

- the efforts to defeat poverty, hunger, emigration

- inventitivity, determination to learn, desire to return home

Of course, here too we can discover the source, sensor and decident which relate to the general diagram as follows:

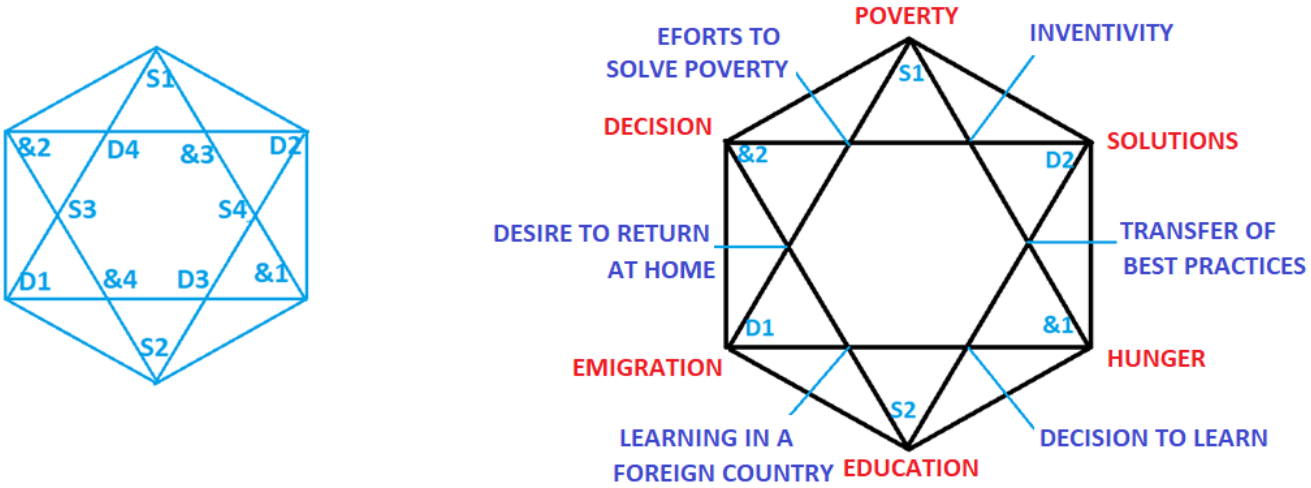


Fig. 8 Generation of new items

In the interpretation of the diagram, interesting connections appear – for instance, at sensor 3 (&3) we have the level of inventitivity which correlates with the

decision to come home. Also, at the decident where there is a portfolio of solutions, a doubling of solutions appears in D4

a) The decision to return home

b) The desire not to go home

Again we notice that the hexavalent logic maintains the information's coherence and allows it's analysis.

The analysis of phenomena can be carried out much better by an artificial intelligence programed to aid humanity. On the other hand, using the same algorithms, it can be programed to destroy eveything, because intelligence without consciousness has no values. The war lords which seek profit out of destruction are an example in this respect. That is why the keys to multiple logics must never be left to opportunists.

THE SECOND LEVEL OF COMPLEXITY

- **Concatenation of feedbacks**

At the second level of complexity we can work with the feedbacks via concatenation, i.e. by putting the nodes with the same content in common, or by putting the vectors with the same direction and with shared nodes in common.

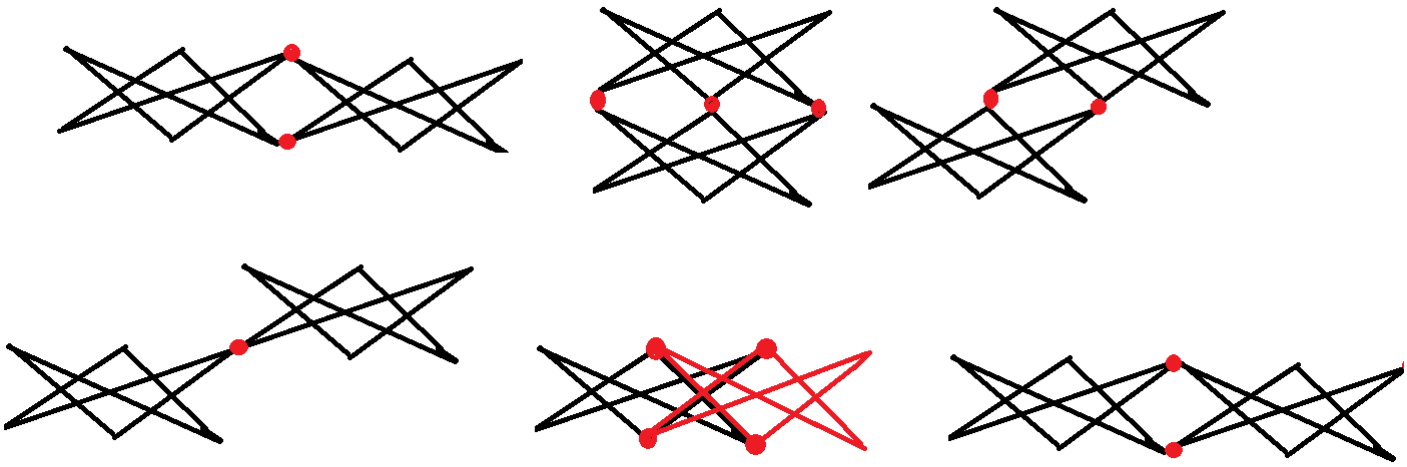


Fig. 9 Concatenation models

Each of these concatenation models observe the same semantic rules as the simple feedbacks. For

instance, the concatenation on a node with semantic content will work according to the following diagram:

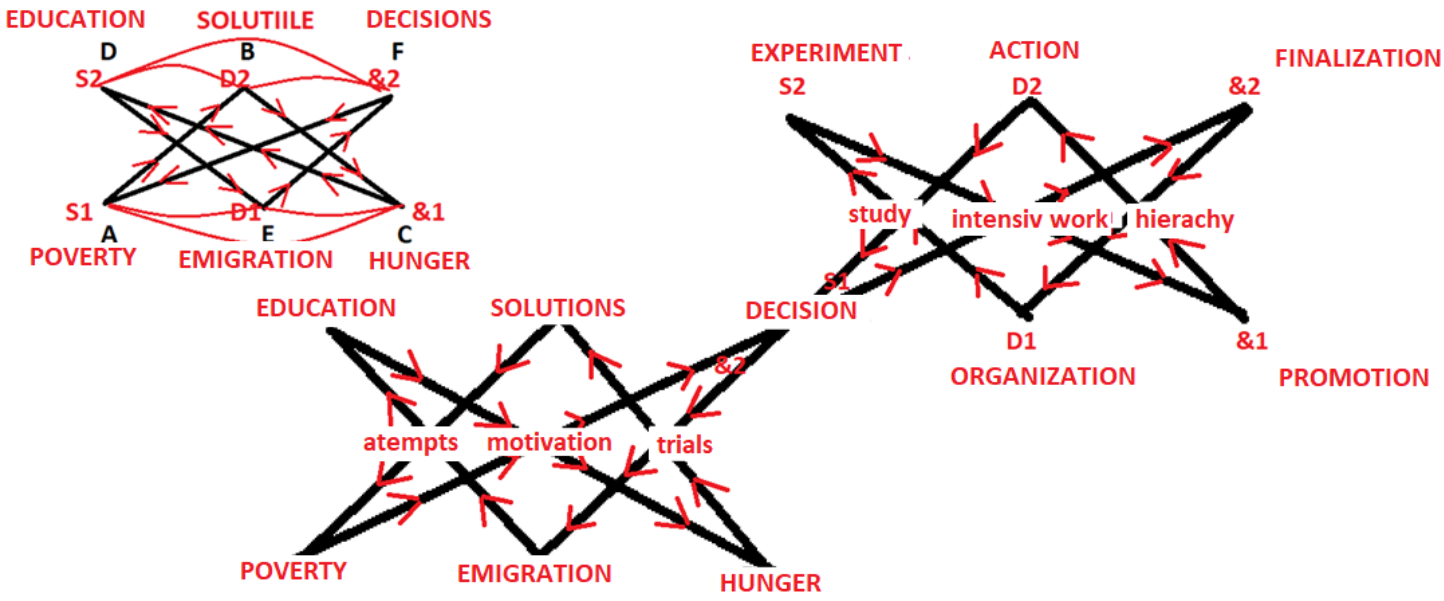


Fig. 10 Initiatory paths

In other words, we discover an initiatory life path which can be followed step by step:

Poverty => motivation => determination => hard work => finalisation => ranking/hierarchy => organisation => study => experimentation => hard work => promotion => ranking => action => study => determination => trials => emigration (decision to emigrate or not) => attempts => education (source) => motivation => hunger (the case of young people

who have studied abroad which are not wanted by a tyranic regime) => trials => solutions => attempts => poverty => motivation => determination

All the diagrams with concatenated feedbacks render such initiatory paths that can be followed with the help of the arrows:

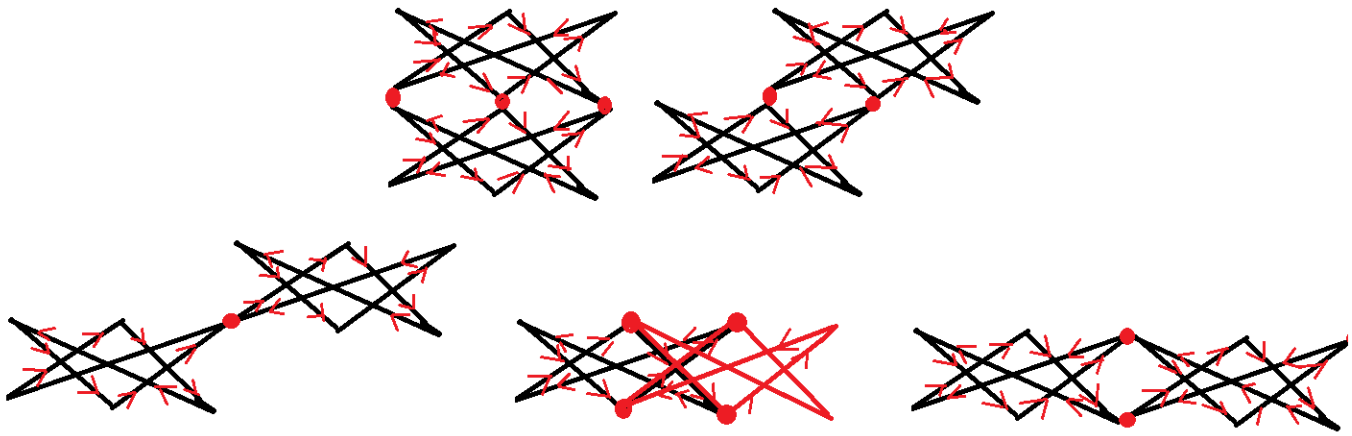


Fig. 11 Making semantic logical diagrams

An extremely interesting remark is the following: there is a finite number of logical diagrams which depends on the concatenation models used. These combine like a puzzle always forming texts with a logical meaning.

This fact allows us to understand the messages of all beings in the Universe with the help of IT. If feedback is proven to also exist in the case of non-living things, we will be able to understand the messages of the non-living Universe.

A second extremely interesting remark is the following: if we take the bottom line of a feedback and the top line of the feedback with which the former has concatenated on two superimposed levels, we shall obtain another feedback with meaning. This proves that the same results can be achieved through different procedures.

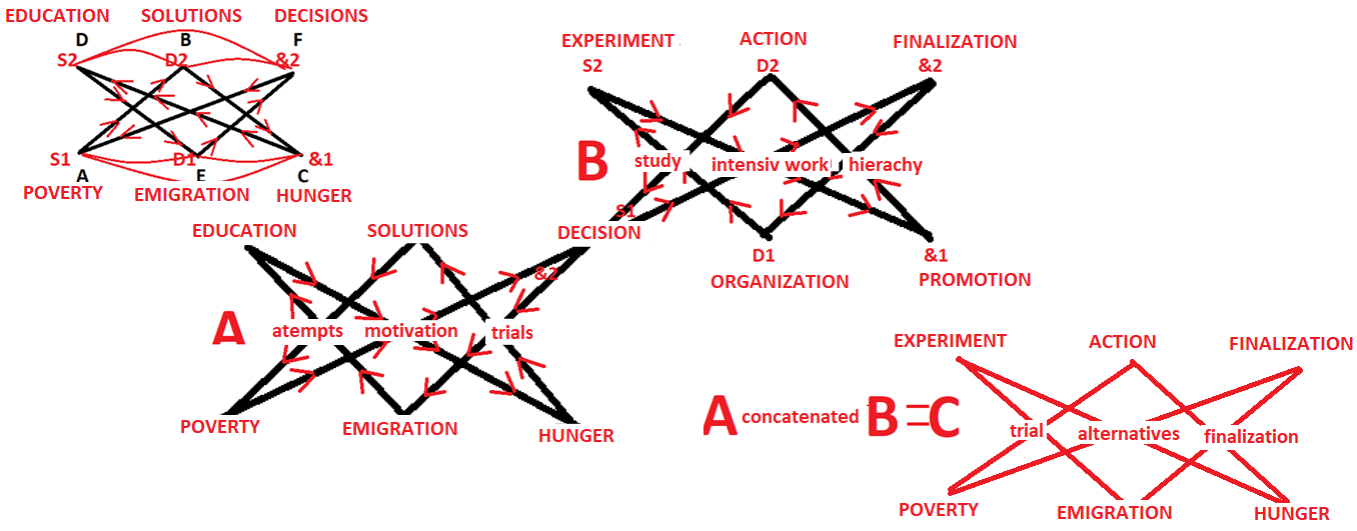


Fig.12 The result of concatenating feedbacks

I have given this sad, but unfortunately common situation in many parts of our world as an example, as a warning.

If we will not design and use artificial intelligence to enhance and develop human intelligence, and also sensitivity, wisdom, cooperation, kindness and other qualities; if we will not fight to have a happy planet, then these will perish.

World meters show us that that the decline is growing every year, with a definite ending. (http://www.worldometers.info/).

The solution is human emancipation – this can be achieved by changing the people's manner of thinking, and by building a professional network capable of making the leap.

We will hear that we are too many of us on the planet, and that it can no longer feed us.

We will hear that soon there will be no more jobs due to robots, and that there is no more money for humans.

If the people left without jobs will be re-trained toward helping the natural environment to recover, and toward helping their neighbour, the huge quantity of currently toxic speculative money will have a purpose.

The new professions that will no longer be productive will be within the knowledge based society.

- **The second degree feedbacks**

The second degree feedbacks are owed to the possibilities of packaging the first degree feedbacks in packages of 6 (letters with sub-letters), which, in turn, will arrange themselves in packages of 4 letters with the same model of organisation.

This working model leads us to a remarkable feature that says that there is a structural isomorphism betwen levels, i.e. the features repeat themselves on different levels of reality, but with a different content, and with another degree of perception of detail (granulation) (zoom in/out).

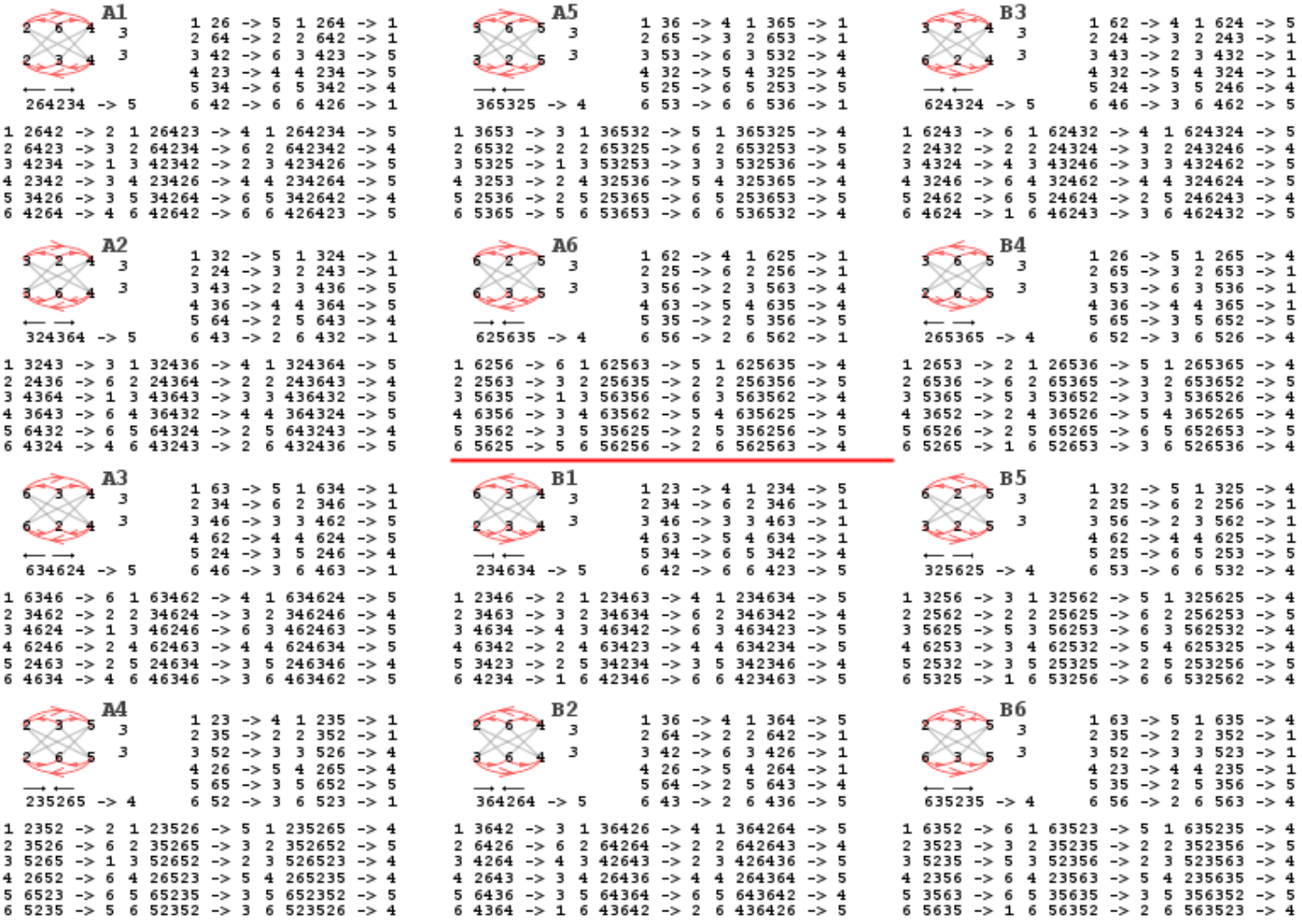


Fig. 13 Feedback packages

Looked at from another perspective, the Universe uses the same language, but with a different level of complexity (just as we do in human language)

Funct.	F1	F2	F3	F4	F5	F6	m							letter
F1	F1	F2	F3	F4	F5	F6								AN ej
F2	F2	F1	F4	F3	F6	F5								BM dk
F3	F3	F5	F1	F6	F2	F4								FL co
F4	F4	F6	F2	F5	F1	F3								DK bm
F5	F5	F3	F6	F1	F4	F2								*CO* *fl*
F6	F6	F4	F5	F2	F3	F1								**EJ** **an**
								AN ej	BM dk	FL co	DK bm	*CO* *fl*	**EJ** **an**	

Fig. 14 Structural isomorphism

In this case F1, F2, F3, F4, F5, F6 are the automorfisms of the projected line.

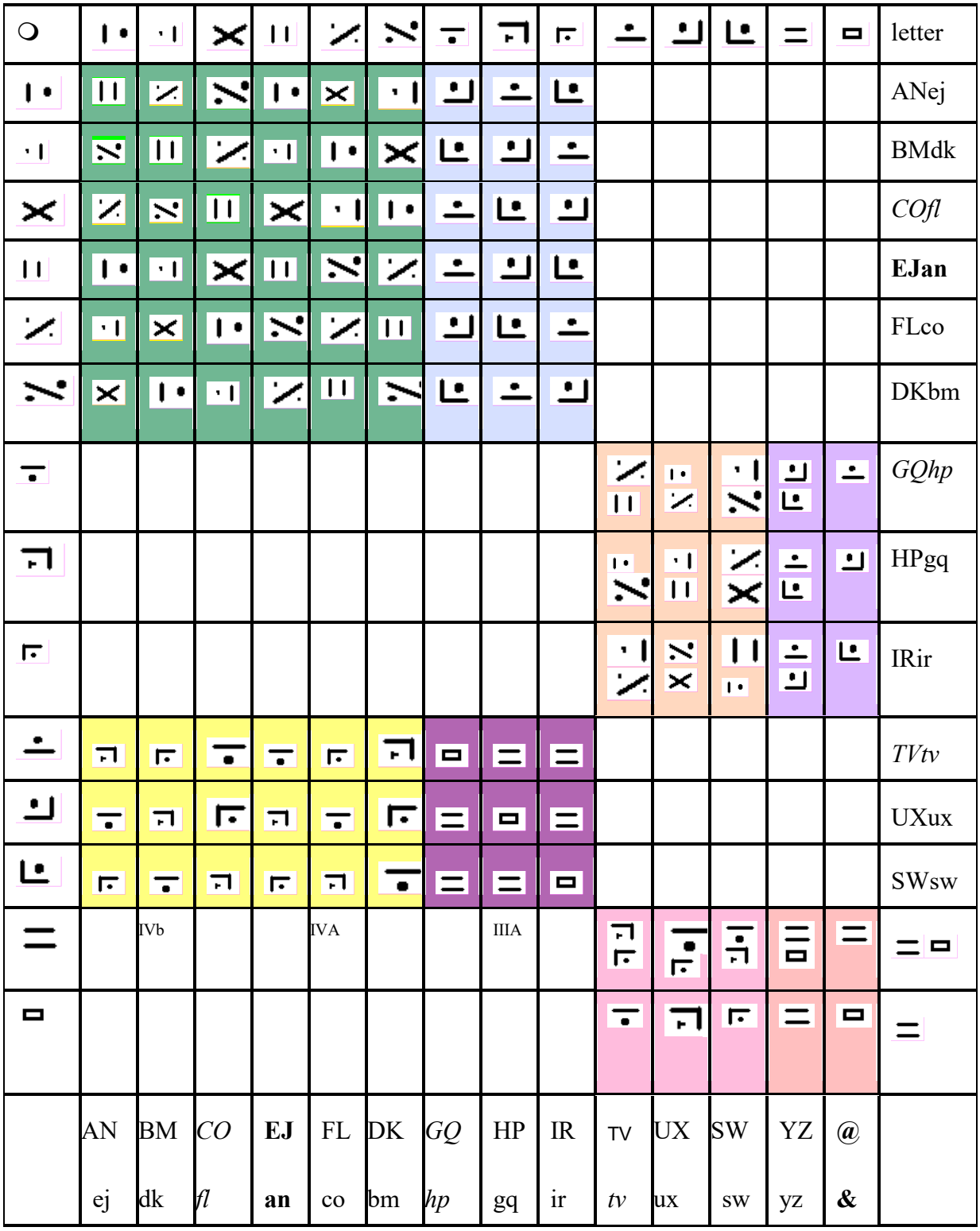
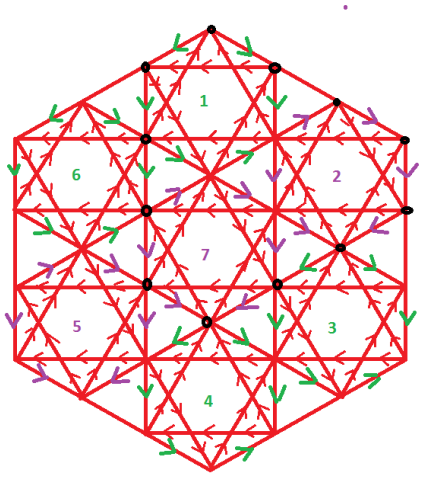


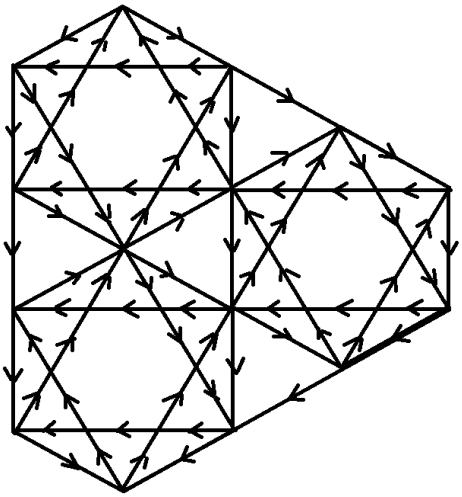
Fig.15 Tabel of structuring the packages of the projected line automorphisms packages

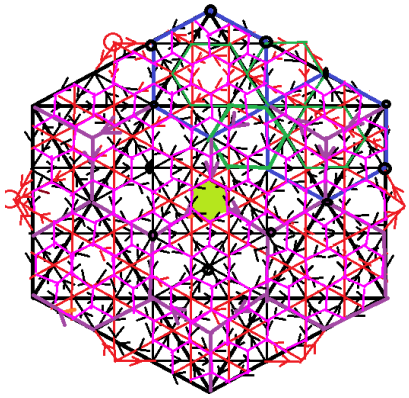
- **Fractalisation of sustainable hexagons**

The second level of the art of thinking requires a high level of competences and is accessible only to specialists.

But the results of this manner of viewing things are remarkable and applicable in many areas at the level of crises solving or exploring the living or maybe even the non-living Universe.







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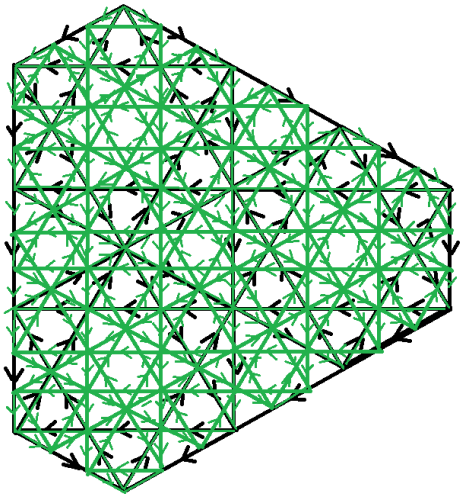

Fig 16. Fractalisation and levels of fracatlisation

We discover a system maybe more complex than a computer, but which will have a very friendly interface.

Here, only a part of the means to create a functional system capable of helping us overcome the most difficult period in the history of humanity and the planet, are mentioned.

The rest will be open only after the professional network will be created, whose IT support algorithms have already been discovered.

The system, however, requires great efforts, and we are still too few.

We await the help of other groups, and the support of those who care.