

Development and Stability (Part 1 of 3)

by Florian Colceag

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INTRODUCTION

"The applied methodology in the complex modelling goes from cultural development to the globalisation process of planetary global culture GAIA. This methodology supposes the organization of socio-genesis based on embryology model, in one organic way. From the modelling point of view, this is translated as the concentration of the attention on principal directions of development, then on system functions and last on system institutions. The principal directions from the social cube are: TO BE (between politic and educative), TO MAKE (between social and economic) and TO HAVE (between environment and resources). The faces of the cube are the poles of these three directions and the institutions on the cube show the proper attributions of these directions. In agreement with the local cultural specificity, the distribution of institutions was made but the functionality of these is conditioned by the existence of functions (circuits). Taking the natural principle as: the function creates the organ - we can evaluate, with this model as a means, the overlapping of the state institutions on the functional needs of a society.

Another characteristic of this model is the functional integrity, which leads to the institutions. Social system as a living mechanism doesn't allow accidental interference without the deterioration of internal balance. We draw a conclusion: the necessity of very high professionalism of political managers. This is the zone where every irresponsible or unprofessional move can amplify, making cascade effects.

This model permits the visualization of organic-genesis - socio-genesis from GAIA project. Therefore, the connection of institution programs in social feedback circuits permits creating the communication between sectors (which otherwise are isolated). This communication is very important for growing the cohesion of social system for identification of the problems and for their solutions. In embryogenesis, these parts correspond to the creation of a neural duct. The transparency of information, the accuracy and honesty in information are parts from the development of these social components. The connection of simple circuits into pentagonal-type circuits leads to the equivalent of the sanguine system from the embryogenesis, ensuring the feeding and developing of the system. The adjusting of institutions according to the presented circuits or programs creates the equivalent of an initiation of a social metabolism. The equivalent of a digestive duct is made through opening to other cultures in an interconnecting-integration association. This

involves the growing of the number of dimensions of the model with three more: TO ADAPT YOURSELF (for cultural contact), TO PROTECT (corresponding to the environment as a participant part of global cultural metabolism) and TO BECOME (corresponding to new wave of complexity generated by hypercube). “To become” will correspond to the function of complex metabolism of all resources that replace, in a body organism, with the excretory function. “To become” also supposes the gonad function for creating human values qualitatively differenced. Informational coherency of the model is the practical application of the theory of algebraic fractals generated by feedback relations and of the theory of cellular automatisms based on these algebraic fractals. Feedback relations are also those which give the coherency of circuits and programs, producing an informational medium needed for a social metabolism, complex and not contradicting. It isn't about hyper cubical model in this material. The others dimensions for human rights (“to become”) or human integration in environment (“to protect”) or in multicultural metabolism and in cultural emancipation (“to adapt yourself”) are to find the primordial state in described circuits and programs. Different cultures have a different disposal of dimensions: primary and secondary. All manifest institutionally in 3- dimensions- the other dimensions becoming hidden in the primordial of programs- but the principal dimensions are not necessarily the same. This arrangement of the dimensions and of the circuits is related to the cultural environment and to the basic cultural philosophies that have generated this environment. Thus, on the globalization scale there are created circuits of cultural trust and a specific cultural metabolism that is similar to the present model, using the same algorithms, only using a number of at least 6 different structuring dimensions.

The model exposed in this study is an example of cellular automatic which has its own "intelligence" in describing and ordering phenomena. It can be used directly in the institutional politics designs and social development and stabilization.

NB: For a better understanding of the functionality of the model, the following set was explained more detailed. This can be done for any other set permitting in the final phase the shift of circuits into policies.

BANK-FINANCIAR POLICY

In a recent work [1] we tried to call your attention upon the difficulties met by the socio-economic management from our country. Three families of causes generate them:

- **International surroundings** characterized by the accentuation of the mankind's global, complex and interdependent problems, which can be resolved through the political will of all the responsible factors and through an adequate methodology.
- **Internal situation**, where the original phenomena of the transition to the market economy raised the question of the performance of the ruling, especially the elaboration and the sustaining of the reforms policy.
- **Going of the crisis of the economic sciences** and the coming of trying to build a new paradigm through interdisciplinary approaches.

In the cubing, because of the rising of the complexity of the economic process, a lasting development of the society can be done only in a systemic approach of the phenomena, penetrating the dynamic of the economic-social mechanism. In other words, **complex problems need complex solutions**. However, if the simple solutions had been efficient, it wouldn't have turned into the present situation of multi-crisis. Consequently, we propose a flexible modeling method, which is using two analyzing instruments: the economic-social cube and the feedback informational circuits.

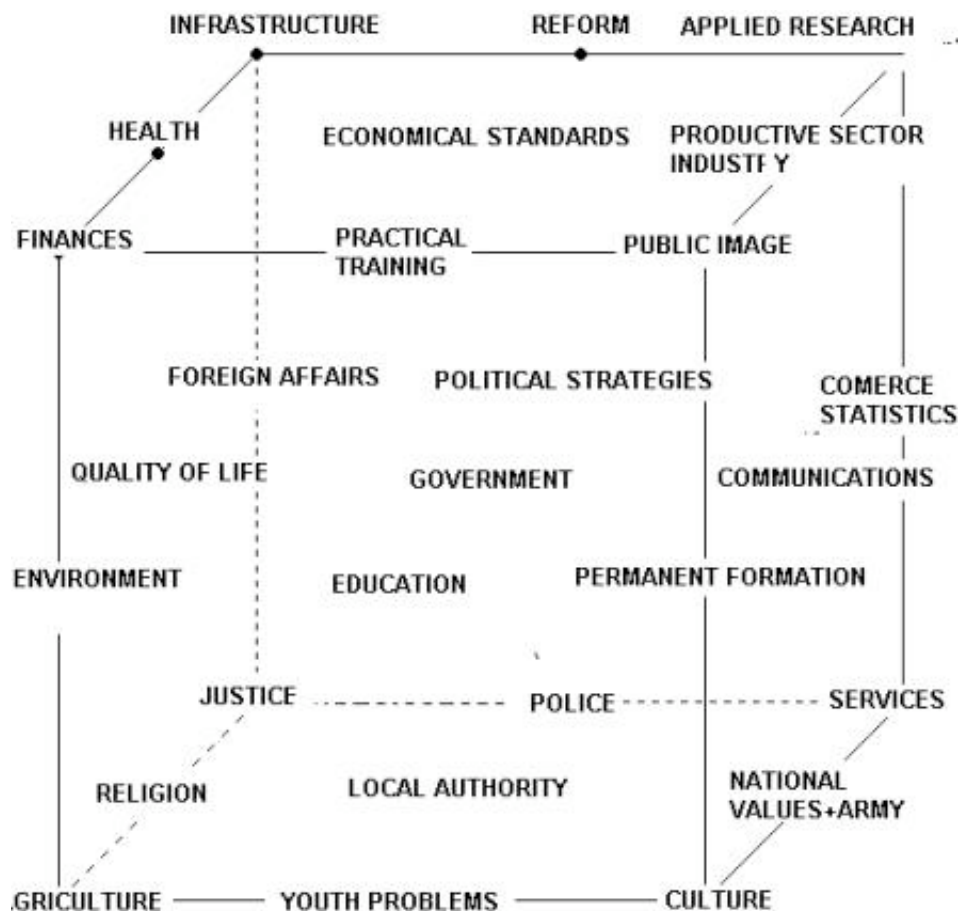
In this work we don't follow the theoretical presentation of these instruments; the mathematic, the scientific philosophy and the internal logic substantiation can be studied in the materials from the bibliographic list [2].

We've noticed that our scientific approach of economic-social modeling process is not isolated. The data structure in a cube (the data cube) became an often-used procedure in the far-reaching projects of the international organisms [3].

We shall start the development of the proposed theme with the most important application of the economic-social cube, that is **the map of state institutions**. (fig.1) The planned social model is adequate to the specific of the Romanian culture and to a Christian prevalent cultural trusting zone. The model can be transferred on other cultures by taking other functional-administrative units developed in relationship with specific cultural philosophy. This model can be extended to a hypercube with six dimensions for the planetary cultural assembly, permitting a better understanding of the global cultural metabolism [4].

For an application suitable for the Romanian culture, the model takes into account the equilibrium state, the vitality of the social-economic system, the health and the power to develop within the framework of the regional integration progress. The institutions from the model make their duties schedules by the programmed circuits they are involved in. Other institutions which are not to be found in the 3-D model can be add into it or, in the alternative of the globalization needs, into a hyper cubic model with six dimensions (it is the case of European Integration Minister, Developing Minister or other institutions). Developing the model only in three dimensions was made because of two main reasons:

- Seeing more clearly the topology of the institutions and their relationships;



The primary features of the Romanian culture based on three pillars: social existence, social action and national wealth.

Fig. 1

The institutions on the cube represent a referent system for the real institutions but this simplified model contains them all. The complete model (with six dimensions) can include them and functions following the same internal logics. Due to the fact that nowadays the weight center moves from the institutional structures to the functional programs, we will notice that an institution on the cube can reunite more real institutions or functional parts of these.

Building some bank-financial policies, the aim of the present study will be achieved by having as starting points several strategic reasons taken into account by our country within

this period of time [5]. So, *the first hypothesis*, which forms the strategy fundamentals, is represented by the abandoning of the practice of ‘ad-hoc’ structural-adjusting measures in the favor of some coherent economic policies. In this regard, the monetary policy will remain restricted until some tough budgetary compulsions are operated, in this way pressures being made in the direction of permanent adjustments in the real sector.

Secondly, following the guideline of some cautious **macroeconomic policies** it will be taken into account:

- The degree of re-currency-ization of the economy under the circumstances of the strict non-inflationary raising of the monetary basis;
- Extension and diversification of the monetary instruments of the central bank;
- Keeping on under control the floating of the exchange course;
- Raising the foreign currency reserves of The National Bank of Romania.

Thirdly, we cannot talk about **improving the competitiveness of the Romanian economy** until the financial discipline strengthens substantially.

Within the framework of the budgetary expenses an important role will be played by **the investments into human capital** (health and education) into improving and **protecting the natural and social-cultural environment**. The analysis of all budgetary expenses will create the premises of transiting to **the budget on project** in the year 2003.

As a normal fact, the financial-bank sector will be called to play a fundamental role in the development of all fields of the economic-social life. To avoid the risk of moral hazard in the bank system it is foreseen, *on one hand*, **the rising of financial discipline** by improving the book-keeping practices and audit banking and by encouraging the banks to assume the role of strong creditors and, *on the other hand*, **the diminution of the role of the corporal guaranties** in according credits and the encouragement of crediting on the basis of an analysis of debtor’s capacity of developing businesses which to generate positive “cash flow”.

By the place the social metabolism occupies in the bank-financial system, it always ensures three **directions of finance**:

- The first one aims to **assuring the health** of the economic-ecologic-social system;
- The second has as a goal to assure with funds the process of **qualifying the labor power**;
- The third direction refers to financing **the protection of social and natural environment**.

In the acceptation of the cubic modern model, the denominations used have the following meanings:

- By “*Finances*” we understand the bank system, the financial institutions as insurance societies or as investments funds, as well as the Finance Minister;

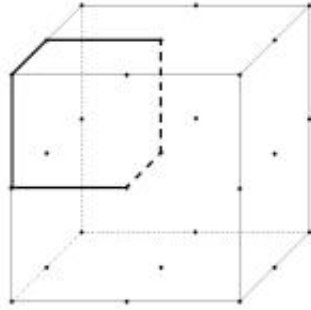
- By “*Health*” we understand the assembly of institutions involved in the health of population, economy and social or natural environment; we say that in this case health is seen in a systemic way but the institutions are diverse, the Health Minister being, for example, in the same conceptual area as environment arrangements or as pension system.
- In “*Professional Training*” are included institutions of specific profile dedicated to this goal; they include a vast system, from vocational schools to universities or other forms of education which give graduates who can be directly absorbed by the labor market;
- By “*Economic Standards*” we understand the institutions from the economic sector which deal with the standardization of the production progress of the product quality, of the production relations or of the evaluation of professional training;
- By “*Quality of Life*” we understand the institutions dedicated to raising the living standard from social and environment assistance to minor protection, or even the organizations which make marketing strategies;
- By “*Education*” we understand the institutions, which deal with framing the population into educational standards specific to a culture; the Education Minister is one of these institutions, but there are more others within the system of education settled by law or within the free instructive marketing.

It is noticed a certain aggregation of institutions which can be avoided by approaching them in a six dimension model, but this is much harder to be seen. In this model each institution has a more precisely role. The following circuits, which define specific policies, require **the action of the whole institutional conglomerate** located in a knot for a program to reach an end.

CIRCUITS – PROGRAMS

We continue by presenting **the fundamental programs of medium term financing**. Apparently, the invested funds are not recuperated. Making a closer analysis, following **the determinism phenomena** for each circuit, one can see it's not like that.

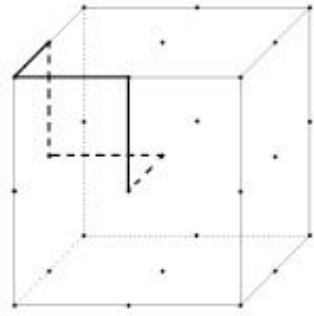
Control and stability programs



1) Programs of long-lasting financial education in systemic sense. Within the framework of this circuit, the health programs meant to work are finances that contribute to the development of the economic standards. They become governmental programs dedicated to the growing of the sanitary education level in systemic sense through the social protection medium. And so people's faith in banks will increase. It is the psychological factor of banks' increasing profit. A form of investment in health is banks' supplement for their customers, some insurances which include life and health insurance (in the 1960s, in Japan, it was established that the workers' health care increases the productivity and the quality work with about 30%; in recent studies in United States it was demonstrated the efficiency of the investments made by the state, industrial units and particular persons in health promotion programs, for every invested dollar it was a profit of 3 to 6 dollars).

Fig.

2) People integration programs in bank system (circuit 1, gone over backwards). The bank credits the community (including local authorities) for the protection of surrounding environment with the declared purpose of the increasing of the systemic education level. This bank action is made by the means of publicity. It becomes the governmental objective and it takes to the increasing of the work productivity and of the economical standards as well. This will influence people's health. The greater incomes obtained, simultaneously together with the decreasing the morbidity degree leads to consumption increase. Because the expenses are made with diverse instruments for paying, due to the help offered by the banks (checks, cards, etc.), the relation bank-client becomes permanently. Another Japanese study (1970) shows that the banks investments for the environment protection leads to work production increasing about 60%; so, it was demonstrated that the people who live better are spending their money through the banks, too.

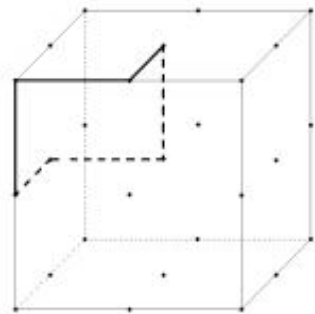


3) Programs for scholarship or credits for studying. The banks are investing in the training of the labor power by directly offering credits, which will be reimbursed from the incomes that the debtors will obtain in the future- from the increasing of the competence and from the productivity at the working place, too. The banks are obtaining an indirect profit by increasing the people's life-style standards. The training of the labor power is made by the educational system and is sustained by governmental programs. The natural result is the increasing of the workers' life quality, which leads to increasing health and social stability. All these determine an increase in the medium-term profit of the banks. The presented circuit refers to the risk capital invested in human capital. In U.S.A. the banks offer integral or partial exchange at attractive interest (between 2% and 3% per year). The workers' increasing professional level leads to the increasing of the goods supply and of the sellable services, bringing contribution to the diminution of the inflation and the interests.

4) Supporting programs of the acquisition paid by installments, including leasing (circuit 3, gone over backwards). The banks are investing in social health programs, so people have the certainty that they have everything they need. So it results in the increasing of the eustress and so, in the life quality. The increasing of the life quality, in this way, it may enter in the governmental programs through a positive attitude concerning life. In this way, it is made a market education, for the market needs, which are orientated to the professional qualification, necessary for reaching the pursued purposes. We can give as examples some methods used by the banks:

- a) Credits for long-term bought goods or mortgage credit;
- b) Construction and arrangement of entertainment parks, shops, national parks;
- c) Financing some games rewarded with trips or cars for the loyal depositors.

In developed countries the perfectionism tendency is stimulated by the fact that the loosing of the work place because of the inadequate qualification leads to enormous losses (for example, losing the house if you haven't paid the last installment of the mortgage credit).

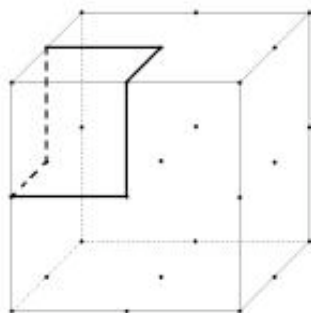


5) Marketing programs with risk capital. The banks finance social environment by co-operation and competitiveness programs (for example, participating to the organization of markets of production means or consuming goods). This leads to the improvement of the life quality through the quality improvement of production capacity. This process is governmental sustained by the enhancement of the production standards, which determines the need of an adequate professional training, financed by the banks, too (which are obtaining, like this, profits from the active mortgage).

6) Perfecting programs for the office worker from the bank-financial (circuit 5, gone over backwards). The banks are financing the professional training for their employees who have to know the production standards, the governmental programs, the way in which all these respond to the raising needs of the life quality and influence the social environment and the way to orientate them to the banks.

Stimulating programs

There are twelve implicit circuits that are born from the above programs. These will be studied in other sections. Here, we shall give just an example:



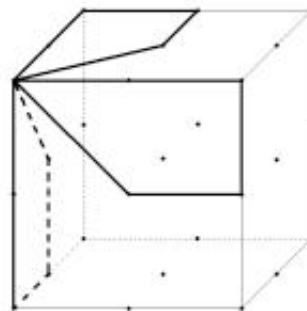
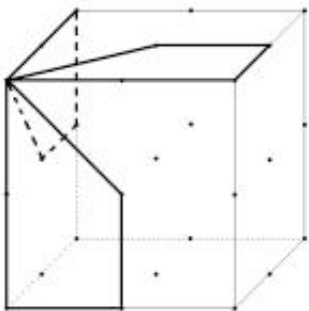
The professional preparedness unfolded in the educational system is pointed to the protection of the environment and this will lead to the rise in life quality and implicit in the health degree of the social system. This determines the reassessment of the economic standards and the necessity of a professional preparedness compatible with these standards. This circuit can begin in any point and it may be run through both directions. For example, the health problems which affect the life quality determine us to look over the *social medium* profound tied with *education* and implicit with *professional training* dependent on the economic standards.

LONG TERM PROGRAMS

A. Stimulating programs of the internal market economy.

Bank finances school for the *education* destined to the accomplishment of the *youth policies* and orientate to the agriculture *environment* for the study of the ecological *agriculture* (the circuit of a lasting exploitation of the local resources). Bank credits prize-winning men with non-guarantied credits, so to be able respecting the quality standards, to acquire the most perfecting agricultural machines offered by the profile *industry* they need and the best quoted on *public image*; and so one is enable to reach the *professional perfection* (this is the stimulating circuit of the local production for the internal market). Bank takes the crop, just to turn it to the best account in accordance with the *life quality* standards required by the market and reflected by the products quality standards (capitalization circuit of the local production). Bank opens the commercial line in the *external* market using the *infrastructure*, with the respect for health standards imposed by final consumer.

Observation: Bank credits the school for youth and it retrieves the money both through the agriculture and machine production and through the export, stimulating each sector.



A**B****B. Stimulating programs of the increasing of the professional abilities and responsibility in work.**

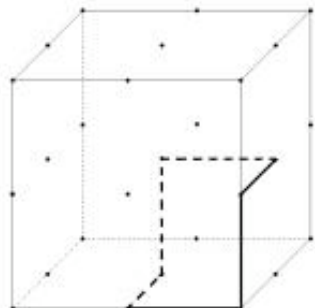
Bank credits school (for educating youth and adults) that is oriented to the *continuous formation* with exit on the *public image* concerning *professional trainings* (bank credits “jobs market” which is the circuit of the competence). The performances, respecting the *quality standards* improving the system, is oriented towards infrastructure, respecting the productivity health (managerial and professional capacity circuit) This stimulates *life quality* through the conducts’ moral standards and through the respect giving everlasting values (the Earth and cultural values) and through the respect giving to natural and social environment (circuit of moral credibility). That means that “jobs market” is formed on the moral credibility. Bank obtains profit from the relation between employer and employee; this also involves the costs with the involving curriculum vitae, performances and human qualities.

CULTURE

The culture is orientated to youth. This orientation involves understanding the social environment, of socialization, of initiation in science, of popularization, outputs to own culture and to other cultures.

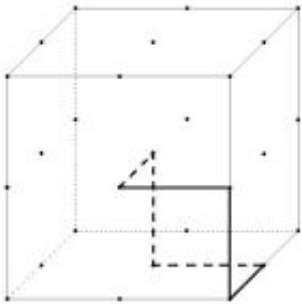
The orientation to national values includes: systems of moral social and ethic values, common laws in social relations, organizations, inhabits, programs, projects, characteristics, specificities, etc.

The orientation to permanent formation includes educative horizons, educational market needs. Professional lines, Internet use mode, global problems understanding, trusting cultural area understanding with the characteristic professional structure concerning the accommodation at their markets, sciences, etc.

Circuits - programs

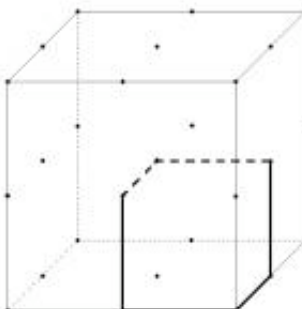
1) *The cultural emancipation circuit and multiculturalism.* The orientation to youth is produced through local authorities (libraries, lectures, symposiums, expositions) aiming with the governmental communication on the global cultural market necessary to the continuous formation for the regional markets. This formation permits adjustment of national values to trusting cultural areas understanding values.

2) *The circuit of e learning.* The culture orientation to continuous formation is made by communication methods developed as national values (Internet distance learning) with the help of some governmental programs. These programs are sustained by local specific structures (Internet Café) and transformed in youth cultural policies.



3) *The support circuit to standards.* The culture orientation to continuous formation aims youth education at the requested market standards. This issue is made by governmental programs transferred at local level and directed to national values through programs of qualitative evaluation of competences.

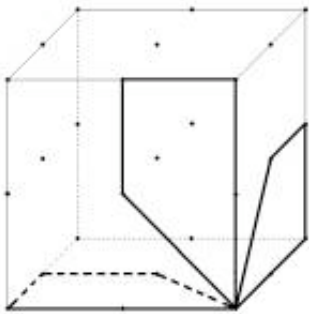
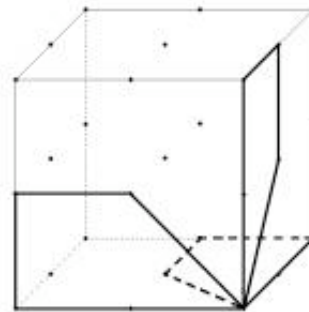
4) *The circuit of national values appreciation.* The culture is orientating to national values by local authorities implication, which are receiving governmental support. This becomes manifest through elaboration and sustaining of educational programs for youth.



5) *Educational circuit for the superior capitalization of the national values.* The culture orientated to national values begins to communicate with the specific national governmental strategies that involve educational programs for youth (Junior achievement: the youth are taught to use minimal resources for profit earning).

6) *Value emancipation circuits.* The culture orientated to youth problems, is expressed through specific educative programs governmental sustained. These programs are unfurling in transparency terms on a global market (example: socialization, functional alphabetization, etc.) expressed through enrichment policies of the national values.

LONG TERM PROGRAMS



A. *The cultural support circuit to the market needs.* The culture education orientated aims professional training with the requested cultural parameters by the market through mass media. The process is continuing with permanent formation.

Example: good manners in affairs.

B. *The formation circuit of the values of social morality.* The culture orientated to the local authorities aims the moral and religious order pointing to the local common law through youth programs.

C. *Cultural communication circuit.* The culture orientated on communication refers to the

cultural exchanges, on improving the service quality and so, capitalizing the national potential.

D. *The circuit of educative culture of the environment.* The culture orientated to education refers to the environment education considered in the program of understanding of the system equilibrium human – nature, in a lasting development of the communities. This means specific programs for youth.

E. *The circuit of culture, socialization and respect about standards and laws.* The culture orientated to local authorities refers to public order and it materializes in services sector through managerial formulas capable to raise the level of national values.

F. *The circuit of cultural education for e-economy.* The culture orientated to communication refers to the productive sector that has to product at the level of public image of the competition produces. So, there are made programs of permanent education.

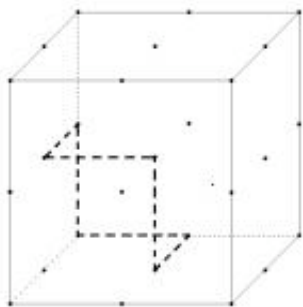
JUSTICE

The justice is orientated to the international right (public international right, trade international right, private international right).

The justice is orientated to internal affairs through the application of the right standards for assuring public order (civil, penal, commercial and procedural laws).

The justice is orientated to ethics and natural and social environment ethics by legal recognition of the moral and common law standards (environment legislation, family right, work right).

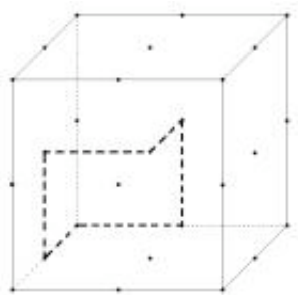
Circuits – programs



1) *The circuit of legal protection antitrust – antimonopoly and anticorruption.* The justice is orientated to external affairs that aim the defense and the consolidation of the life quality from the local communities that are making external exchanges. This action receives governmental support, it is evaluated and quantified by the level of the local

authorities and it is benefiting of the support of the order institutes (for example: Anticorruption Brigade).

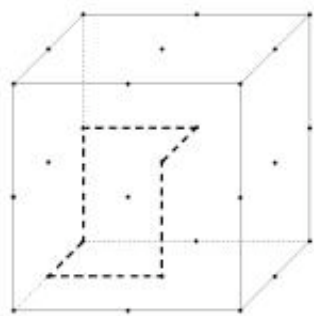
2) *The circuit of legal responsibility.* The justice is orientated to public order institutes for the local authorities consolidation and for the control of its activity with governmental support. This is the materialization through protection and sustaining of life quality with tendencies to external standards in law limits (fortune control, governmental responsibility law, ministry responsibility law).



3) *The circuit of cultural ethic and chances equality.* The justice is orientated to morality referring to the life quality (that is the case of the cultural and social minorities who are living under the poorness level). One can find strategies of political arrangement of the dysfunctions in law frame with governmental support.

4) *The circuit of legal protection of the quality of natural and social environments.* The justice is orientated to arrangement with governmental support of the legislation, which has to strengthen the life quality, the morality of natural and social environment.

Example: Constitutional Court.

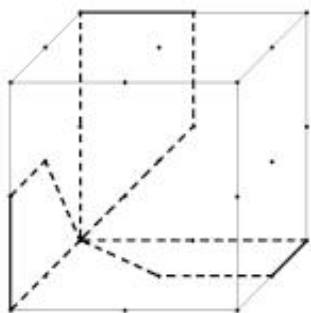
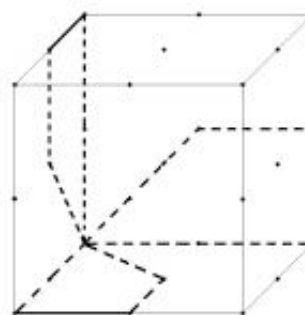


5) *The circuit of legislative alignment.* The justice orientated to the morality of natural and social environment is applying the law on the local authorities with governmental support. This is made through the laws elaboration in correlation with the external

coercions (example: the adaptation of the community acquis).

6) *The circuit of responsibility of the local administration.* The justice is orientated to standards of international right for evaluation in the existing legislative frame with governmental support. This support is capitalized through actions on local authorities referring to the morality of administrative management).

LONG TERM PROGRAMS



A. *The circuit of legislative integration long lasting type.* The justice orientated to politic aims to structure reforms with the infrastructure integration in regional policies.

B. *The circuit of the protection of social and cultural environment.* This involves the orientation on protecting and raising the life quality that leading at natural and social environment protection. This fact is possible because of the implication of local community and of environment and religious morality.

C. *The circuit of order settlement.* The justice is orientated to local authorities pursuing

the conservation and the development of the natural values, the good functioning of the services and the integrity of the order institutes.

D. The circuit of political responsibility. The justice orientated to politic is referring to the commercial and business relations pursuing the services correctness and the legality of the actions in public order (corruption at political level).

E. The responsibility circuit of competence utilization. In this way, justice actions towards the local authorities aiming their management actions of human resources policies (nepotism, favoritism, etc.) with consequences of local community and public morality.

F. The responsibility circuit of politic management. All of these are life quality related, orientated to social health and of social infrastructure which reflects itself in international exchanges. (Example: lack of ethic manifested in enrichment case by influence traffic which influences the model of human success and, implicit, life quality: money laundering, underground economy, mob relation).

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AGRICULTURE

Agriculture can be defined as the ancient culture of human been related to the nature. It contains nature as an ecosystem, social nature and divine nature. It means habits, local customary laws that are still practiced in the agricultural communities.

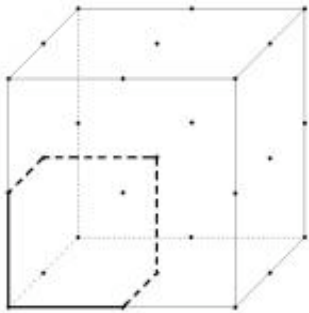
ORIENTATIONS

Orientation to the environment contains traditional and modern techniques of use, exploitation, protection and environment reconditioning (earth, woods, waters, grazing etc).

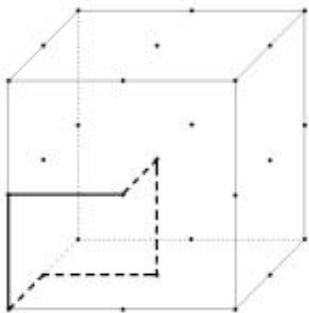
Moral direction is represented by specific mutual social relations, in competition conditions, no aggressiveness social rules and mutual respect, relation with church, relation with Law. On the youth side it materializes in association habits of young people in the agricultural communities, youth programs, targeting specific training in the agricultural communities.

Town communities have similar characteristics to the agricultural communities, improved by the different social structures they live in.

CIRCUITS

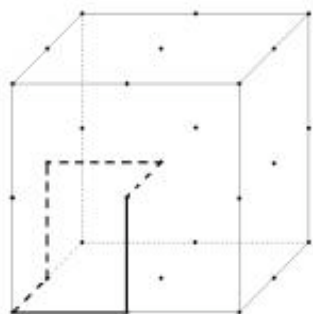


- 1) Sustainable agriculture circuit. Agriculture oriented to the environment targets education quality improvement, by sustainable politics with governmental support and under local authorities advice. Local authorities are doing this by youth politics targeting sustainable agriculture.
- 2) Attracting circuit to the agriculture. Agriculture directed to the youth materializes, at local authorities level, in rejuvenation of labour manpower in agriculture. Governmental programs aiming life quality improvement in the country, with specific environment protection strategies, can do this.



- 3) Agriculture environment circuit. Agriculture directed to the environment targets improvement of education quality by a sustainable politics with governmental support. It materializes in co-operation actions with local authorities, directed to the cultivation of environment ethic (protection, planning, reconditioning).

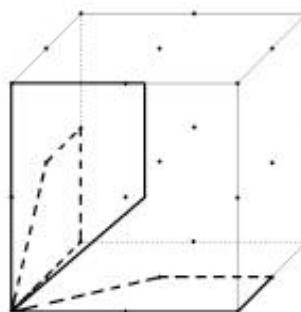
- 4) Local authorities ethic circuit. Agriculture directed to the Church referrers to the appreciation of traditional moral customary law (headmen, counsellors) with governmental support. This concretises in life quality improvement and in natural and social environment protection.

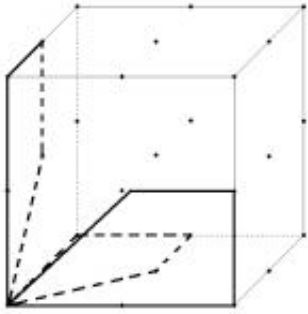


- 5) Environment education in the agricultural communities circuit. Agriculture directed to the youth aims specific education programs with governmental support. It concretises in the life quality improvement, thanks to the co-operating and ethic way of working. (Sensitising program for the youth to the village public problems).
- 6) Environment education in the village community's circuit. Agriculture directed to the Church targets environment ethics referring to the life quality improvement with governmental support. This materializes in educative actions placed in youth policies.

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LONG TERM PROGRAMS





- A. *Life quality standards improvement in village communities programs.* Agriculture directed to life quality improvement concretises in human health and ecological indicatory financial supported by specific environment programs.
- B. *Sustainable agricultural education program.* This supposes educational actions to determine permanent development. Permanent development initiates cultural work in the field through youth programs.
- C. *Environment ethic program.* All these will benefit by local authorities and guard authorities support in the legal context consolidated through moral ethics actions.
- D. *Foreign exchanges program.* Agriculture directed to the quality life improvement referring to the foreign exchanges on multiple levels in the legal juridical frame respecting the environment ethic.
- E. *Professional education for ecological agriculture programs.* This is targeting educative programs directed to the specific professional education, benefiting by financial support in order to obtain ecological products.
- F. *Cultural consolidation programs.* In necessary to obtain the local authorities support, which aim national values consolidation and development on local level on specific cultural models (linked to agriculture etc) in youth programs.

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