



# **Avances SISTÉMICOS**

Número 8

Mayo 2020

## **COVID-19: AN AXIO-SYSTEMIC RESPONSE**

**The world after COVID-19:  
Some possible lines of action  
from a systemic perspective**



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**Año 3 - Número 8 - Mayo 2020**

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**Avances Sistémicos** y su logo han sido registradas en el Boletín Oficial de la Propiedad Industrial. © 2018

ISSN 2659-6520

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## EDITORIAL :

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AVANCES SISTÉMICOS wants to contribute, to the extent of its modest possibilities, to pointing out some actions in the face of the dark future that lies ahead. They will be measures directed directly to the reader as a person, since it can be said that it is the individual human being who is the main responsible of current world problems.

From the pandemic presented by COVID-19, the opinion seems to have become general: the world is going to stop being like the current one, because many things are going to change and that we must be prepared to assume them, logically for the benefit of most of the near 8 billion inhabitants on the planet, and even thinking about future inhabitants (some 9.7 billion are expected by 2050) who will be currently affected, and in the short and medium term our children and grandchildren. Because many objectives considered as priorities in 2020 will become secondary and vice versa. And maybe we are going to come back to the past situation (previous vaccine discovered), but in any case, we will have taken a renewed awareness of how little we are as individuals, and even as collectivities powerful as they seem., in front of so many chances and needs (remembering Monod) that surround us.

For example, and for thinking about Spain. The political problem presented in Catalonia will be another for all Spaniards, both unionists and secessionists, because the final objective of both will inevitably be obsolete: Nor does a small Spain "united 'forever'" make sense, let alone the of an "independent Catalonia". Ideas that lack and will lack meaning every day. The problem from now on, apart from the absolutely universal peremptory need to have a remedy against coronavirus, will consist of knowing how to face the most delicate and fine task that we could undertake as "homo sapiens sapiens", such as ensuring the best "system of values "to all humanity; with the new ideal of coexisting between regions, towns and people as it corresponds already, after more than 20 centuries of recorded history, to "super-civilized" beings. All of which means now facing a syllogism like the following:

a) Planet Earth is storing too many problems (migrations, famines, wars, conflicts, destruction of nature, sale of weapons of war, viruses, humanly unpredictable technological development ...);

b) Without wanting to enter into discussions on theological issues, it should be recognized that from the early "death" of God (present in Eastern philosophy for more than thirty centuries) to his most modern "burial" (Nietzsche), the only responsible are we, the inhabitants of the planet, who despite our limited freedoms, we will have to stop blaming the gods once and for all;

c) The human being, aware of his new vulnerability due to this unexpected outbreak of an unknown coronavirus, is now in charge of correcting the wrongdoing and recreating new assets, albeit enlarging his responsibility and even morally gigantic in contrast to the "mental and social "jibarización" (dwarfing) to which small personal short-term conflicts are still leading us.

For Europe, as for the rest of the world, many of the minor problems would thus end, to become involved in another of an incomparable magnitude: **a profound axiological adjustment of the world system.**

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## INTRODUCTION

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Let's start with the figures. It is a way of situating the problem so that we can deal with it more easily or with greater possibilities of success.

In principle we are going to present the Coronavirus (COVID-19) in terms of "infected" population, "deaths", "recoveries" and finally calculating a SEVERITY INDEX as a summary of the numerical situation.

And limiting this introduction to only 10 countries: the 8 most populous of the European Union, plus the United Kingdom and the USA from America. Besides, AVANCES SISTÉMICOS is preparing this same type of statistical description for 73 countries (the 27 of the European Union, the remaining 12 European countries, the 20 Spanish-speaking countries, and finally de 14 most populous countries in the world. In the final phase of COVID-19 we will prepare also a report on the rest of the countries of the world.

On the other hand, the problem will not only be described but also explained through a score of independent explanatory variables (Health expenditure, Aging populations, Unemployment, Poverty, etc.).

The ultimate goal is try to understand the problem from a statistical-systemic perspective so that it can facilitate its solution.

### THE SEVERITY OF THE PROBLEM FOR THE EIGHT MOST POPULOUS COUNTRIES IN EUROPE, PLUS THE UNITED KINGDOM AND USA.

**Table 1:**  
COVID-19 SOME RESULTS TO 15 MAY 2020.

País	Pob. (millions)	Infectados (Infected)	Inf/millar (A)	Muertes(M) Dead	Curados(C ) Recovered	M/C (B)	GRAVEDAD (Severity) (AxB)
Alemania	83.8	174.478...	2.08	7.884...	150.300...	0.05	0.104
Francia	65.3	178.994...	2.74	27.428...	59.719...	0.46	1.260
Italia	60.5	223.096...	3.69	31.368...	115.288...	0.27	0.996
España	46.8	229.540...	4.90	27.321...	143.374...	0.19	0.931
Polonia	37.9	17.615...	0.46	883...	6.696...	0.13	0.060
Rumania	19.2	16.247...	0.85	1.053...	9.053...	0.11	0.093
Holanda	17.1	43.680...	2.55	5.609...	159...	35.3	90.015
Bélgica	11.6	54.288...	4.68	8.903...	14.111...	0.63	2.948
R.Unido	67.9	234.440...	3.45	33.693...	1.043...	32.3	111.435
EE.UU.	331.0	1.417.889...	4.28	85.906...	245.414...	0.35	1.498



According to these calculations the best global management of the pandemic is Polonia (0.060) followed by Rumania (0.093) and Germany (0.104), and Spain ranks fourth (0.931).

However, Spain occupies the first (worst) position (4.90) for the number of infected per thousand inhabitants, followed by Belgium (4.68) and USA (4.28).

The best internal sanitary system is for Germany (0.05) followed by Rumania (0.11) .

The data presented on "cured" ("recovered") by Holland (159) and United Kingdom (1.043) are incomprehensible. But the authors of these calculations are not responsible for the poor quality of the data. This corresponds to the organizations that have published them.

Source: Johns Hopkins University. Coronavirus Resource Center.

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## A CLASSIFICATION OF COUNTRIES AND CHANGE DURING THE LAST TWO WEEKS

**Table. 2: A FIRST CLASSIFICATION AND TREND**

28/4/20	15/5/20
1. Polonia (0.068)	1. Polonia (0.060)
2. Alemania (0.094)	2. Rumania (0.093)
3. Rumania (0.118)	3. Alemania (0.104)
4. España (0.931)	4. España (0.931)
5. EE.UU. (1.250)	5. Italia (0.996)
6. Francia (1.270)	6. Francia (1.260)
7. Italia (1.320)	7. EE.UU. (1.498)
8. Bélgica (2.650)	8. Bélgica (2.948)
9. Reino Unido (60.813)	9. Holanda (90.015)
10. Holanda (86.620)	10. Reino Unido (111.435)

Note: In just two weeks the US has dropped two places, which are the ones that Italy wins. Netherlands and the United Kingdom continue in the last places due to the incomprehensible of their "recovered" figures.

## TABLE 3: EXPLANATIONS OF THE RESULTS OF TABLE 2

Informe de fecha 13 de Mayo de 2020

Cálculos realizados con la hoja EXCEL:

COVID19INDICEGRAVEDAD (SEVERITY).matriz basica.6.5.20

I el programa REGINT de <https://www.uv.es/caselles>

## Best explanatory variables:

An explanatory advance is presented here only for a select group of countries and variables, but AVANCES SISTÉMICOS is calculating the "Severity" Index and its explanation for 73 countries organized in three groups: EU(27); other Europeans (12); Other Spanish speakers (20); and big countries (14), and using as the single variable to be explained the number of "infected people /1000 inhabitants". The explanatory variables and their relative weight are:

Haplogrupo R1b:	45 % of variability	Straight
Unemployment/gnp per capita	29	Logarithmic
CO2, Tm/pc	19	Exponential
% Urban population	16	Parable
Aging Index	16	Inverse
Turism (Arrival)	14	Parable
Poverty (Education)	13	Inverse
Population 0-14	11	Parable
Tax pressure	9	Exponential
Population >64	7	Inverse
Imports	6	Logarithmic
Human capital (Index)	1	Exponential

It is necessary to highlight the explanatory weight of the "Haplogroup R1b" variable, which is simply "statistical", which means that it is not, at least for the moment, a CAUSAL short-cut, but can be merely accidental. Geneticists will need to carry out the necessary investigations to clarify this problem,

Additional information about "Haplogroup Rb1":

\* The best explanatory variables with two transformed variables:

HaplogroupR1b).(TaxPressure)+(1/Turists,arrived)..... 73%

\* The best explanatory variable with three transformed variables:

Haplogroup R1b). (CO2+co2.Imports+Turist arrived).....84%

Therefore, the interest is knowing if the explanatory power of the Haplogroup R1b might be a real CAUSE, or it is merely an statistical spurious coincidence.

Author: Antonio Caselles.

## A CRITICISM FROM STUART UMPLEBY TO TABLE 1.

Stuart A. Umpleby,  
Professor Emeritus of Management, Systems and Cybernetics, George Washington University.

DEAR STUART:  
LET ME ANSWER THE QUESTIONS AFTER EACH PARAGRAPH WITH THIS TYPE OF LETTER ONLY FOR CLARITY.

Dear Francisco, I showed your table to a friend who is a medical statistician. She had a few questions.

I don't speak Spanish but I can figure out what these headings mean and have translated them above the Spanish words. The analysis seems quite imprecise and not comparable between countries.

I THINK YOU ARE QUITE RIGHT, BUT THE ORGANIZATIONS (JOHNS HOPKINS UNIVERSITY, WHO, AND THE EUROPEAN CENTRE FOR DISEASE PREVENTION) SHOULD CONSIDER THIS LACK OF COMPARABILITY BEFORE PUBLISHING THESE DATA.

Since the number affected depends on how testing was done and when recovery was determined. Was testing done only on patients who were admitted to the hospital or those who were mildly ill or some random sample of the population?

IN SPAIN, THE THE AFFECTED PEOPLE ARE THOSE WHO WERE ADMITTED IN HOSPITAL, BUT FROM SOME DAYS AGO THEY ARE STARTING TO CONSIDER ALSO "AFFECTED" THOSE COMING FROM SOME RANDOM SAMPLE OF THE POPULATION.

Was recovery determined in a uniform way, say, calling people a month or so after diagnosis?

IN SPAIN RECOVERY PEOPLE ARE THOSE WHO HAVE ELIMINATED THE VIRUS AFTER THEIR CLINICAL TREATMENT.

So for example, Holland has a high gravity index because they report only 322 recoveries out of 36,000 identified cases.

FROM THIS SAMPLE OF 10 COUNTRIES WE DO NOT UNDERSTAND TWO CASES: UNITED KINGDOM AND NETHERLANDS.

¿WHY DO THEY REPORT SO FEW CASES OF RECOVERED PEOPLE?. WE ARE TRYING TO DISCOVER THE CAUSE, EVEN WRITING TO THEIR EMBASSIES, BUT IN ANY CASE, IT IS THE RESPONSIBILITY OF THE ORGANIZATIONS WHO PUBLISH THE DATA BEFORE CHECKING THEIR COMPARABILITY.

IS There may be many more cases and many more recoveries. Who came up with the Gravity Index? Is that some standard measure in public health?

IT OUR VIEW THE GRAVITY INDEX IT IS NOT AN ESTABLISHED STANDARD MEASURE, BUT ONLY A REFLEXION OF MY TEAM OF COLLABORATORS IN "AVANCES SISTÉMICOS.. THE LOGIC WAS TO INTEGRATE THE "CAPACITY" OF THE FRONTIER TO AVOID THE ENTRY OF THE VIRUS, AND THE EFFICIENCY OF THE HOSPITAL SYSTEM COMPARING WHAT THEY DO WITH THEIR INFECTED PEOPLE: THAT IS: THE ARITHMETICAL RELATION BETWEEN DEATHS AND RECOVERED.. IN GENERAL, WE THINK THAT YOU ARE RIGHT IN YOURS CRITICISMS BUT IT IS NOT OUR RESPONSIBILITY THE BAD QUALITY OF THE DATA, NEVERTHELESS WE HOPE THAT THESE DATA WILL BE IMPROVED LITTLE BY LITTLE IN THE NEAR FUTURE.

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## **GERMANY AND AUSTRIA: TWO CASES OF LOW FATALITY RATE FOR CORONAVIRUS**

By Antonio Sánchez Sucar

The low number of fatality rates in Germany can be explained by a number of factors:  
**PREVIEWON:** In mid-january, the team of Dr. Christian Drosten, of the Charité Institute in Berlin, had developed a test to detect the virus and its procedure, which began to be mass produced. In a few weeks the number of tests carried out was 4000.000 weekly.

**EARLY DETECTION AND EFFECTIVE TRACKING:** The first case was detected in Germany on February 28 in a school teacher in the Heinsberg Region of Ruhr. The school closed and the tests were generalized. However, Professor Streek, Director of the Bonn Institute of Virology, acknowledges that the tests must have been more numerous and carried out on people without symptoms who contracted the virus and who travelled to the ski resorts of Austria and Italy, since the first week of February was a vacation in the area. As a consequence, in this region the rate of infection and deceased is much higher than the rest of Germany. "This demonstrates the impact of early detection in the number of deaths" in Streeck's words. In the whole country, not subject to the outbreak of skiers, the positive cases were not serious and the easy treatment were adequately traced, slowing down the spread. The free tests facilitated their extension. By the end of April, it is planned to start a test that provides information on possible contracted immunity, analyzing random samples of 100.000 people per week.

**YOUNGER POPULATION.** The average age of the patients was and is relatively low, 49 years, The intergenerational cohabitation rate in Germany is lower than in Spain (10%) which avoids contagion to the elderly population with whom they live. To this is added that in Spain the life expectancy is higher (83.5 years) than the German one (81).

**HABITS OF LIFE AND DISCIPLINE.** The culture of prevention is proverbial in Germany, as well as discipline and compliance with regulations, And confidence in politicians is much higher than in Spain. In this matter then solidarity between parties and between parties and population is much higher. In general, the rule of not shaking hands in medical consultations, hospitals and when you have the slightest cold has usually been respected in the past.

**THE GERMAN SANITARY SYSTEM.** It had in January of about 20.000 UCI beds, all equipped with respirators, 34 per 100.000 people compared with Spain (17). They have extended to 40.000 during the course of the crisis, although the saturation of the system has not been reached, with the number of those currently available being around 11.300. There are in Germany a large number of institutions and universities due to political decentralization which are governed by the Federal Protection Law for infections, allowing adaptation to the circumstances of each Land. Thus, in Bavaria, in addition to the aforementioned Ruhr region, it has additional restrictions. However, coordination between different actors is the usual feature.

### **AUSTRIA**

There are three main aspects to explain the number of deaths:

a) **PREVENTION:** See the following table in:

<https://www.politico.eu/article/europes-coronavirus-lockdown-measures-compared>

Austria implemented all the preventive measures that are in this table with the exception of the border closure, before the considered baseline: registration of the first death from the disease (March 17). A priority was established in the tests to be carried out on staff and residents in the senior centers. 130,000 tests were carried out in 900 facilities, with the results of 30% of early positives declaring the confinement in the region. This will be in force at least until April 24.

b) There is some discussion regarding the criteria for counting deaths. On the one hand, patients with symptoms that have not had contact with patients have been evaluated, so there are deaths to count outside the statistics. However, Judith Aberle, from the MedUniViene Virology Center, signed "that they include those who are known to be infected and, on the other hand, those who present relevant symptoms such as severe pneumonia or higher fever." In any case, she says, the statistics are made according with the criteria that apply in Europe.

c) Infected people in Austria are younger, in average, than elsewhere, of the 45-54 age group. This is because the infection chains have been relatively specific. Many of the people who initially became infected skied in the Tyrol were younger and subject to the first isolation measures. The skier's thesis seems to explain some connections, not only for Austria but also for other countries. For example, Germany and Norway have a similar case fatality rate. And in both countries, numerous major chains of infection lead to Tyrolean winter resorts.

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## **MAIN PROPOSAL :**

### **TOWARDS AN AXIOLOGICAL REVIEW OF GLOBAL OBJECTIVES AFTER COVID-19**

By Francisco Parra-Luna

Although it is not worth anything, the professional role of systemic, forces us to cast a more global and interrelated view of what is happening in this world, communicationally every day smaller. But what is really happening?. It might just be a deep imbalance in our "system of values", that is to say: in our "system of life". It is enough just listen the magnificent speech of the Spanish sociologist Maria Angeles Durán to have an idea of the huge social changes in perspective because of this imbalance.

Posing the problem in this way, and starting in principle from the perspective of the most developed countries, some questions are: will we be able to continue with the present train of life in transatlantic planes, private cars, full highways, transatlantic cruises, space travels, fashion and beauty contests, extreme consumerism, ... etc.? Is all this spending necessary, or does it represent an unsustainable luxury? And above all, is it compatible with the hunger, wars and various calamities that much of humanity suffers with which we are creating a pit of unrepresentable injustice? And is it compatible with the destruction to which we subject nature in all its forms, from various pollution to climate change? And even more, how can we continue living with warehouses full of chemical weapons of mass destruction, which causes us total insecurity? And to defend ourselves from whom? Only from ourselves as a species? All questions that are very disturbing and that they mean a substantial change in our value system.

"Value", here is the word. What will compel me, although it may sounds presumptuous personally, to constantly refer to the theory that I have been developing and applying for years. See eg, F. Parra.Luna (2001).

So the time might have come to take the bull by the horns and bravely face the current world situation. First, following the theoretical scheme rigorously, and second, trying to see its application in different areas, from the smallest to the largest. What could we do to make it effective? To be practical, we will point out four levels: personal (individual action), **organizational** (from big enterprises to small organizations), **national** (States) e **international** (United Nations).

And in general for all of them, what phases could be foreseen? Let's put it according to the old scheme of **what** (what can we and should we do?) **how** (in which way?), **who** (who should take the initiative?) and **when** (what's the moment?).

## WHAT

If we pose the question within an adequate theoretical framework, it will be necessary to come back again and again so as not to forget it, about what is essential for human beings, about what we cannot stop persecuting humans in our daily life: that is, to be happy. Only for this, we need to have good health, eat, dress, be free, etc. and above all to be aware that this is the only thing that moves us, the goal to be reached, as Seneca said:

***"there is no favorable wind for those who do not know where they are going."***

Because, wouldn't some of this be happening in today's world? Do we know how to define the exact place we are going to? Certainly yes at the level of philosophical or theoretical ideas and concepts, since it is enough to read the history of human ideas to confirm a certain knowledge already accumulated, but we still lack a better systemic definition of world needs in operational terms, and if not, let's put the view, eg, on the so-called "Eight Millennium Goals" prepared by the UN in 2000 (Table 1),

- |   |
|---|
| <ol style="list-style-type: none"><li>1. Eradicate extreme poverty and hunger</li><li>2. Achieve universal primary education</li><li>3. Promote gender equality and the autonomy of women</li><li>4. Reduce child mortality</li><li>5. Improve maternal health</li><li>6. Combat HIV / AIDS,, malaria and other diseases</li><li>7. Guarantee environmental sustainability</li><li>8. Foster a global partnership for development</li></ol> |
|---|

Table 1: The Eight Millennium Goals of the UN of 2000.

Where we already find several absences, or lack of the necessary emphasis on needs as felt and evident as the fight against terrorism and the achievement of world peace, origin too many times, of unwanted emigration, famine and other disasters, not to mention the need in political liberties, participation and distribution of goods. Consequently, we begin by failing to consider the epistemological totality of the postcovid-19 situation that we are facing, and then confirming the absence of a sufficiently closed general model that includes, first, all the human needs valid in time and space, which serves as an invariable general framework, and second, an operationally defined and prepared instrument for the quantification of its variables and the optimization of its results. And it is in these two instruments of the initial phase of "take-off" where ADVANCES SISTÉMICOS can present some first steps already taken towards that practical operation that is required given the new uncertainty that lies in wait for us.

Recalling, therefore, what has already been said several times, it is necessary to remember four essential instruments: 1) the Referential Pattern of Universal Values (RPUV); 2) The empirical construction of "axiological profiles" according to the Values-Purposes of the RPUV, 3) the permanent search for dynamic balance between them; and 4) the definition and final process towards the concept of Progress. At the moment it is a universal application package of "AVANCES SISTÉMICOS".

## 1. The Referential Pattern of Universal Values

Based on Maslow's Theory of Needs (1950) and the complementary contributions of Parra Luna (1975), together with the relationship between "need" and "value" established by C. Kluckhohn (1970), the following is a Referential Pattern of Universal Values (RPUV), which must be valid at all times and places, and whose components could not fail to be persecuted by mankind due to its powerful biological and social conditions. David Easton, Karl W. Deustch, and M. Bunge are among my spiritual fathers. Without a model like this, or very similar, we cannot take a single step in life.

<b>NEEDS/UNIVERSAL VALUES</b>	
UNIVERSAL NEED	VALUE PERSUED
In good physical and mental shape	HEALTH (H)
Of sufficiency of material goods	WEALTH (W)
Contingency security	SECURITY (Se)
To know	KNOWLEDGE (K)
Of being free (expression and movements)	FREEDOM
Of receiving equal treatment	DISTRIBUTIVE JUSTICE (DJ)
Of life adapted to nature	CONSERVATION OF NATURE (CN)
Of personal self-development	QUALITY OF ACTIVITIES (QA)
Of love and esteem towards and for others	MORAL PRESTIGE

Table 2: A Referential Pattern of Universal Values (RPUV)

It must be remembered that these are the needs, natural or artificial, that motivate human beings daily from birth to death, from the time they wake up to when they go back to sleep. There would be no way to stop satisfying one or more of these "needs" or desires and consequently the search for their corresponding "values".

## 2. Empirical construction of axiological profiles

### 2.1 Overcoming ideologies

But in view of the fact that it is not possible to satisfy all the needs of the previous table at the maximum desired level simultaneously, the human being is forced to put more emphasis on some values than others and also in a way that changes according to circumstances. As an example, what in passing is worth to dismantle the excessive role that is still granted to political ideologies, two traditional schemes are presented, those of the old "capitalism" and "communism" that, although outdated and obsolete, still reflect the accents that we usually put each other today in our search for a better life. It is not considered necessary to explain these profiles further because they are graphically evident, although still emphasizing the negative dialectical relationship established between the values of Freedom (F) and Distributive Justice (DJ) where the higher the level of one, the lower the level of the other, residing in finding the best balance between both values, the finest task of modern politics.



**Security (Se):** fairly low level due to economic difficulties for many countries, as well as the storage of weapons of mass destruction and the development of communication technologies whose “humanistic” potential is unknown.

**Knowledge (K):** medium level where developments in high technologies shine together with rates of very low education and even illiteracy.

**Freedom (F):** Relatively high level where freedom between countries, power groups and people would be excessively weighted.

**Distributive Justice (DJ):** very low level due to the inequality in the distribution of income and the inter-country and intra-country possibilities, due precisely to the high levels adopted in the Liberty value.

**Conservation of Nature (CN):** dangerously low level due to the contamination of land, air and seas, leading to a dangerous squandering of natural resources.

**Quality of Activities (QA):** low level due to the high number of salaried people, insufficient income level or low training.

**Moral Prestige (MP):** due to the low or unbalanced levels registered in the preceding values, together with the daily visibility of the masses fleeing from wars and unjust conflicts in conditions of maximum precariousness, the moral prestige of the world as a whole can be described as very low.

Assumptions that allow an approximate profile to that of fig. 3

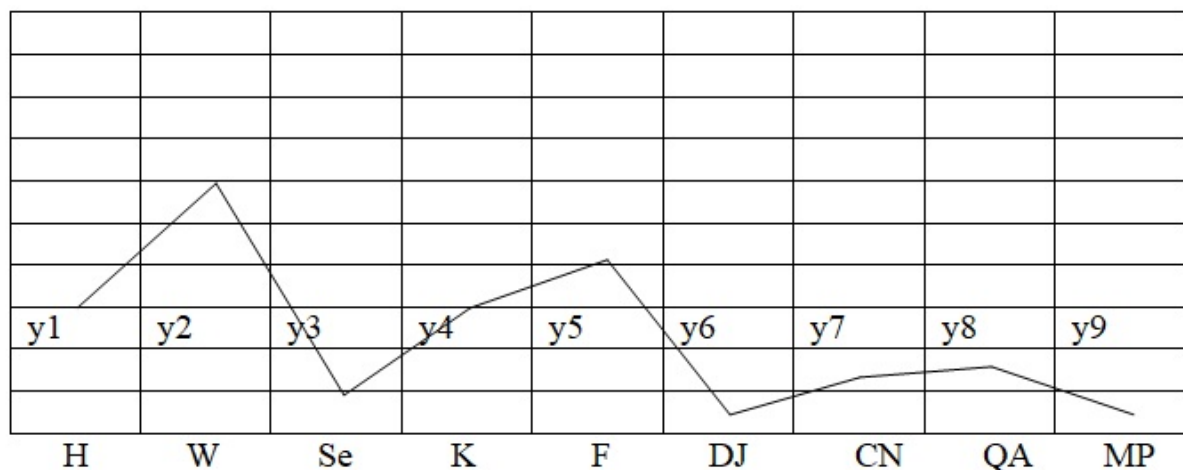


Fig. 3: An intuitive profile of the current situation in the world.

The mere vision of this hypothetical profile, where low levels would abound on a 0-100 scale, together with a certain imbalance in favour of more material goods, already predisposes to a change in axiological orientation at the world level.



# HOW

## 3. The balancing phase of values

### 3.1 The Explanation subphase

Given the state of the world, it is necessary to know and foresee the historical behavior of the system. Perhaps the most practical idea is to “map” the interrelation between values by establishing the basic causal relationships between them (“Soft Systems Methodology”) to have a first global idea of the problem and the prioritization of programs towards the desired improvement.

Given the urgency presented by the COVID-19 pandemic, this would have to be the ideal moment to generate a causal circuit of possible solutions. In this way fig. 4 suggests a systemic interaction between values, also indicating the priority in which they can be established.

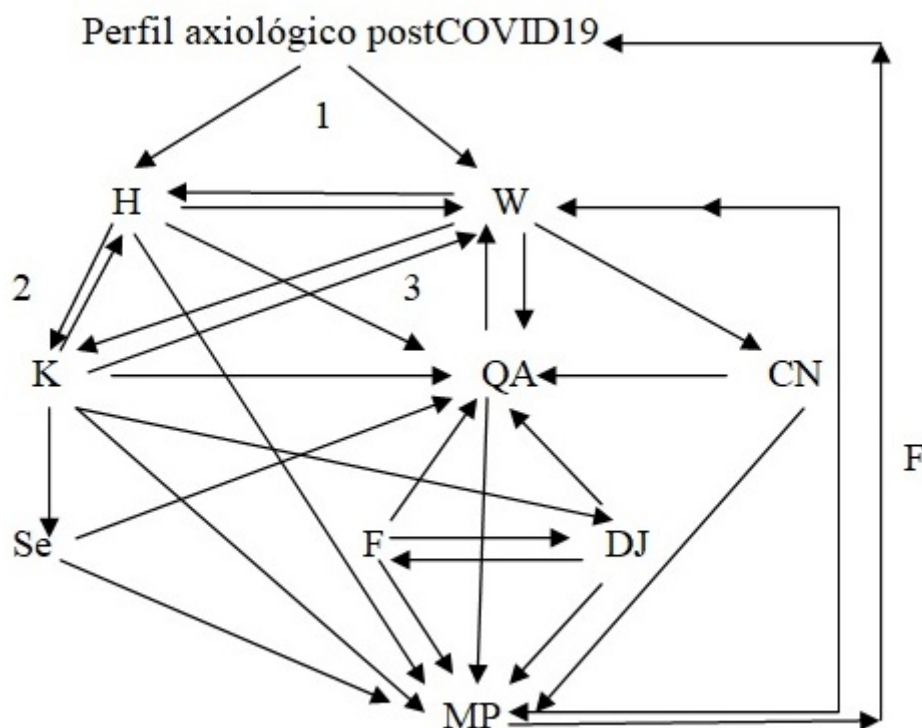


Fig. 4: A causal modeling

The numbers indicate priority: the “1” indicates dedicating the maximum possible economic resources to the value H (Health) due to the problem of COVID-19 and in parallel “2” on W (Material Wealth) minimizing its negative effects, and at the same time, the urgency of the A pandemic requires decisive action on “K” (Knowledge) through research programs in search of a vaccine, which would ultimately revert “3” to the benefit of economic activity or Material Wealth (W). This would be the first circuit to start up, that should stimulate the rest of the variables until reaching sufficient levels of the rest of the values to return via “feedback” (F), giving positive results to the initial situation generated by COVID19. A model that through the direct and indirect interaction of its variables ends in the large final variable called “Moral Prestige” (MP) that must record the maximum efficiency of this supposed “organized social system towards ends”, that would be like contemplating with “axiological glasses” the world society seen from space. A project that is still utopian, but also with a certain degree of utopia, progress is being made. The only condition is to design and check whether this “utopia” is based more on solidarity than on

selfishness, on the prevalence of the whole over the part, on not emphasizing too much the difference between "ours" and "yours" and in short, to assume the sufferings of so many millions of beings living on the earth as something that not only hurts, but as a permanent need towards the corrective or eliminating action of so many inequalities and injustices And not only saying it, but doing it in the measure that everyone is able.

### 3.2 The compensation subphase

We know that the profile in fig. 3 is unsatisfactory, but, how to achieve the double objective of balancing (leveling the profile) while raising its average level among the nine values?

First, then, how to achieve a certain balance between the values pursued? How, for example, in this circumstance of COVID-19, the difficult balance of avoiding deaths and not paralyzing the economy is achieved? Somehow, it is necessary to evaluate the complementary segments "a", "b", ..... "i" to perceive the total effort to compensate for the loss in "Health" through segment "a" and in some way it is necessary to evaluate the rest of the segments ,positives or negatives , divided by its corresponding cost (c) and so on in the rest of the distances (D) that require level elevation such as "d", "f", "g", "h" and "i", also foreseeing their respective costs. This would give rise to an ordering according to the "productivity" presented by the successive expressions: "a / ca"; "d / cd"; "f / cf"; "g / cg"; "h / ch"; and "i / ci", which will require a series of operations and calculations absolutely necessary if the axiological profile is to be balanced with the effects of Covid-19. Fig.5 shows some possibilities of increasing or decreasing the levels of the values.

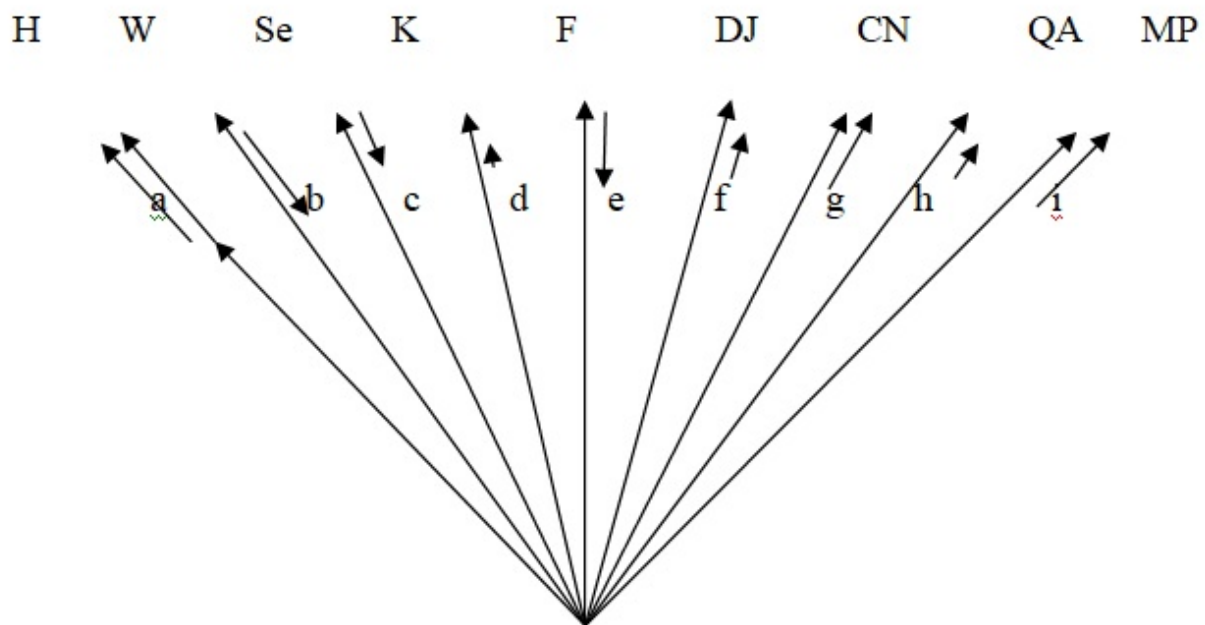


Fig. 5: A range of balancing possibilities

The totalizing algorithm that can be applied to the equilibrium (Eq) that requires the appearance of COVID19, can be represented by:

$$\text{Eq (Coronavirus)} = \text{Da} + \text{Dg} + \text{Df} + \text{Dg} + \text{Dh} + \text{Di} / (\text{ca} + \text{cg} + \text{cf} + \text{cg} + \text{ch} + \text{ci})$$

Where "D" is each deviation to save in percentage points and "c" as we know their economic costs. A formula that more or less must be applied by the world's governments to counteract the socio-economic effects of the virus, and the most appropriate technical means may be to develop a method such as DELFOS to decide at all times the best global option. Something that is perfectly achievable through the respective of adequate technical teams.

#### 4. The definition of PROGRESS:

##### From the horizontalization of the profile to its elevation.

The algorithm just presented means carrying out only the first phase of what fig. 5: the balancing of the "value system" for later, and once the potential that is supposed has been injected, undertake the elevation of the average level of the values in search of a better general situation, always on the way to the 100 or optimum that represents it fig. 6, where a DYNAMIC CHANGES TOWARDS PROGRESS is represented and where

S=Health; RM=Wealth; Se=Security; C=Knowledge; L=Freedom; JD=Distributive Justice; CN=Conservation of Nature; CA=Quality of Activities and PM=Moral Prestige

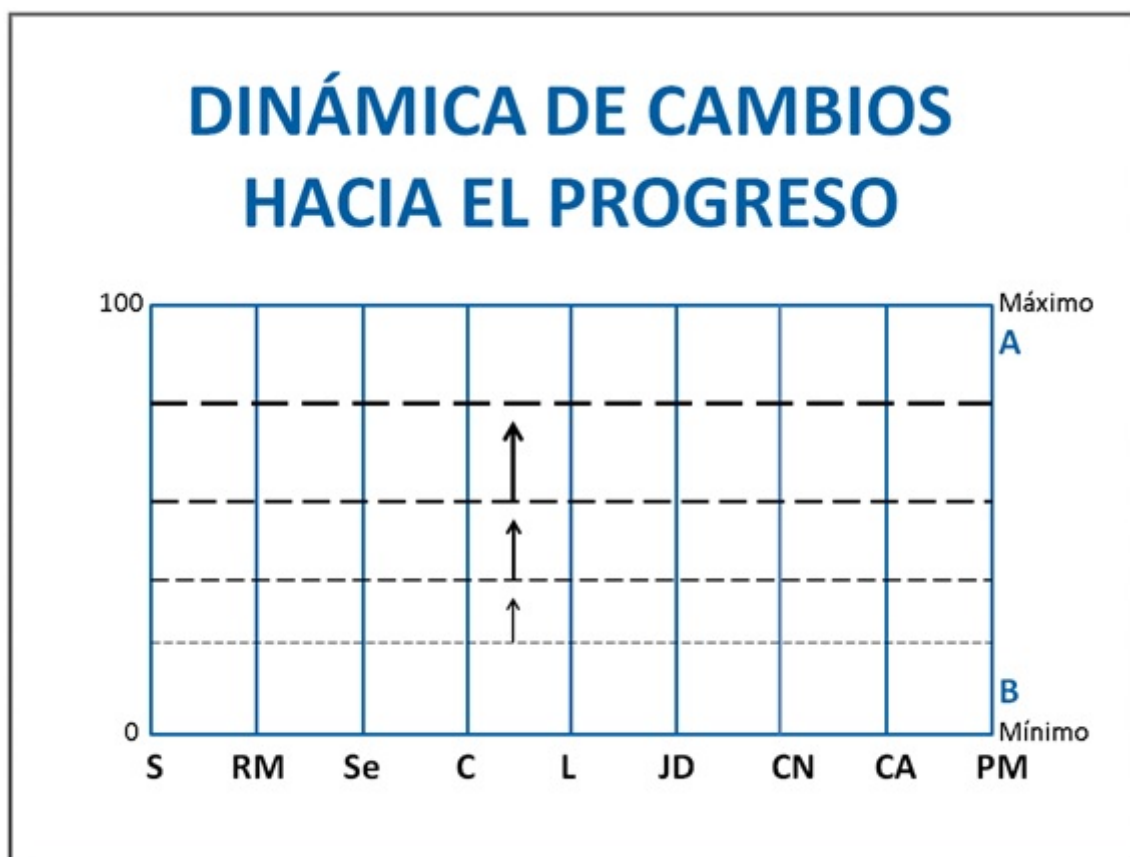


Fig. 6: The axiological dynamics towards progress

We know how to flatten the profile, but now we have to raise it. In what way? It is necessary to repeat what has been said before: it is necessary to model theoretically the relationships between the most significant variables (Fig. 4) to establish causal relationships between them. This causal structure is also necessary to prioritize them according to the difference (D) of each value (or indicator) in relation to the average of the remaining eight values, taking into account their ability to influence (I) over the others, their cost (C) of implementation, and the urgency (U). An elevating action (EI) of the axiological profile is then expressible in the formula:  $EI = f(D, I, CU)$  where "C" would enter as its inverse ( $1 / C$ ), an expression that would be basic to have a first global idea of the problem and prioritization of actions to take towards the pursued progress. It is the big problem of most governments today to find the necessary balance between avoiding deaths for coronavirus and at the same time to stop economic crisis. Given the urgency presented by the COVID-19 pandemic, this must be for the moment the problem-generator of the causal circuit of possible solutions. In this way fig. 4 suggested a systemic interaction between values, also indicating the priority in which they can be established. The question now lies in seeing who is responsible for dealing with such an ambitious change as to solve the resulting global problems.

# WHO

But the real problem is. Who could or should do it? As it was said before, let us consider four levels: personal, organizational, national and at the world level. The first deals with what is viable to do from our limited personal power; the second with what could be possible to do for any organization in general; the third with the actions of politicians at national levels; and fourth with the actions expected from the politicians responsible of the world, like, f.i., the UNO. And I argue that for all these actions, it is unavoidable to use the RPUV.

## a) From a personal point of view:

We must not forget that from the point of view of the Axiological Systems Theory, we humans, are nothing but "individual axiological profiles", or as I like to say: "walking axiological profiles". As it is not possible to avoid this condition, let's review its main components in order to adapt our behavior.

**\*Health:** Adopting first, **Hipocrates** sentence: "*That your only medicine is your food*" (Eat less, adopting, f.i., a macrobiotic daily diet on the basis of more whole cereals and the minimum of animal proteins). Avoid as much as possible alcohol, tobacco and drugs, do physical exercise, sleep well. And finally, perhaps the most important: adopt the **Juvenal** sentence: "*Men sana in corpore sano*" by avoiding any angry, feeling of hatred, envy or rancor.

**\*Material Wealth:** Limit your earnings to be happy or to help others. Spend as less as possible in clothing and fashion. Use public transport as much as possible. Use material wealth only as a way to benefit the others.

**\*Security:** Make prudential economic savings. Avoid unnecessary risks

**\*Knowledge:** Try to learn, study, investigate, and make constructive criticisms, everything in order to improve humanity. Understand what political ideologies are, and never make obvious value judgments.

**\*Freedom:** First, make a list of factors that are limiting your freedom every day. After, try to increase your degrees of freedom, but always respecting the freedom of the others.

**\*Distributive Justice:** Adopt the three tries: Try to be fair in every circumstance; try to understand the negative relationship between Freedom and Justice; and try to balance them.

**\*Conservation of Nature:** Do not use non-recyclable plastics. Love and respect nature. Try not pollute waters, lands and air.

**\*Quality of Activities:** Try to enjoy your work and participate in its creation. Participate as much as possible in social and political activities (local, national or international) . Be interested in cultural activities (music, films, theatre, not mechanical sports...).

**\*Moral Prestige:** Help any person or social group in difficulties. Try to help accredited benefic organizations in favor of other people or countries. Try always to balance your personal axiological profile and never adopt an inflexible ideological one. And, in general: *don't do to others what you don't want them to do to you.*

**\*IT IS NOT DIFFICULT, WE ALL CAN DO IT. WE ALL CAN BALANCE THE NINE VALUES OF OUR PERSONAL AXIOLOGICAL PROFILE.**

## b) From the organizational perspective

We find two functions:

b1) To improve the **internal** axiological profile, creating an internal system of human relations where sincerity, cooperation and participation, should be the very first task to accomplish within the organization. What advise could, an organizations that does not meet these requirements, give?. A good social climate is the oil that greases the machinery of the organization.

b2) To improve the **external** axiological profile. What any organization could do in favor of the outside world, from companies or other organizations as clients, to national or international institutions?. What can be offered? what is the intrinsic power of the organization?, where we would not have, or scarcely, competence? Undoubtedly, knowing how to use tables 2 and fig. 1 to 6 above, that would represent an important advantage. (But here it is necessary to make a special point because the crime of pride, vanity or self-promotion, could appear to the detriment for the author. The author, then, from the humblest position, has not other option than to expose his works, assuming the danger that he may be branded as childish or presumptuous. Let us assume this danger).

How to improve axiological profiles? It depends of the finalities of the organizations (sportives, cultural, economic, scientific, religious, etc.). But for any scientific organization like IASCYS, UES, AIRS, HSSS, SESGE. etc. , prepared in `principle for research and consulting tasks, they should be credited at least theoretical and empirical publications on the described axiological approach, in scientific journals with a high professional impact, like f.i.:

A1) **Theoretical** (f.i. Parra Luna, "**An Axiological Systems Theory: Some Basic Hypotheses**", *Social Research and Behavioral Science*", *Syst.Res.00-1-26 (2001)*.) This publication presents in a new way what has been presented in previous works like, "**Towards Comparing National Social Performances**", *Ph.D, at the University of Lausanne, Switzerland, 2975*, a theoretical development to discover the "axiological profiles" and their imbalances, absolutely necessary for the progress of social systems.

A2) **Empirical** (f.i., F.Parra Luna y J. Montero de Juan "**A Cybernetic Approach to Reduce Unemployment in Spain**", *Kybernetes: The International Journal of Cybernetics & General Systems*", *vol. 128, num.5, 1989*. This empirical research was determined by the high level of unemployment in Spain showed by its axiological profile.

According with the nature and objectives of each organization, they should demonstrate their professional skills, but preferably making use always of the **axiological profiles** in order to know all the imbalances of the subject under analysis and their relative levels.

## c) From a national perspective

It would be necessary to start by knowing the axiological profiles of the country under consideration. If we take the case of Spain, the following axiological profile could be established, even if it is done from an intuitive point of view given the actual COVID-19 situation:

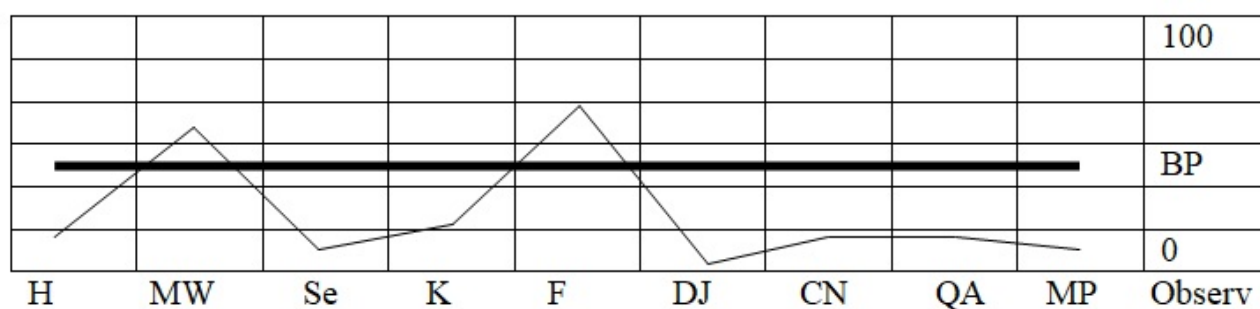


Fig. 7 Towards a desirable more balanced profile (BP)

The real profile shows what seems to be clear today: that the level of HEALTH (S) needs to be raised because of the COVID-19, and that they can be done at the cost of the value Material Wealth (MW) through more social expenses, and especially the value of Freedom (F), through, e.g., the increase of the fiscal pressure in order to raise the levels in Security (Se), Knowledge (K) and also those of Distributive Justice, Conservation of Nature and Quality of Activities (QA) to finish, perhaps with the most important by summarizing them all: the Moral Prestige (MP).

It can serve as a first reference of what it is possible to do about the problem of unemployment in Spain, my works in the journal *Economistas* num.128. Sep. 2011, titled: "**Four errors of economic policy in Spain**", and num. 129, Nov.2011, titled: "**The Axiological Model-SETCU: a response to the crisis in Spain**". It would be interesting that the reader could read these two articles in order to understand the Spanish political economy.

#### d) From the world perspective

As it is logical, each of the causal arrows in fig. 4 would entail such a complexity of action programs and of the organizations involved, that at the moment only a "gross" assessment of the world problem by the UN is thinkable through very intense political action by its General Secretariat near the maximum world political powers (USA, European Union, China, Russia, Japan etc.) to create a possible new World Agency or Coordination for World Axiological Development, generating responsibilities and responsibilities on States (laws), Organizations (own resources) and Individuals (networks and social relations), but this time, not only to announce new, more balanced Millennium Development Goals, but also to operationalize a series of concrete measures already proposed and quantified. Because if it was clear in the case of unemployment in Spain that it was absolutely necessary to apply the axiological profiles to understand the origin of the problem, no less can you say when it comes to international problems.

Therefore, and I must apologize again, because I suggest seeing another of my works based on the axiological approach titled: "**What is Development?: Towards a Systemic Index of Human Development (IIHD)**", published in *Avances Sistemicos*, num. 3, October 2016. But why should I be forced to return to the self-quote?. The reader will understand that for two reasons: first, in an indicator of human development one cannot only take indicators such as "per capita income", "education", "health" and "inequality", however fundamental they may be, since it is also necessary to take into account the rest of the marginalized values of the RPUV; and second, it should not be considered as a "humanely" developed country, when it dedicates itself to exporting arms to other less developed countries to kill themselves. It will be necessary therefore to introduce an indicator of arms exported as a negative component of the index.

Therefore the main contribution of this index consists thus in adopting two variants: a) to adopt an **index** where the numerator of the expression does not include only a few values (health, education, etc. , such as the one prepared by the UN), but the NINE values of the PRVU; and b)



using the export of weapons in the **denominator**. This new IIHD should be one of the first operational instruments to be implemented to achieve the ends pursued, especially by introducing the income from exported arms as it causes many world misfortunes known only to the benefit of developed countries.

## WHEN

There is a certain degree of consensus about the INSECURITY of the world in 2020 given the **three** main causes already mentioned:

a) the **storage of weapons of mass destruction**; b) the **squandering of nature**; and  
c) the **exponential development of technologies** that we do not know where they can take us from a humanistic perspective.

Therefore, to answer the question WHEN could not be other than: **as soon as possible**.

But understanding the real difficulties in the world to move organisms like the UN towards the axiological methods exposed, the small organizations and consulting could well begin by offering some of the techniques and principles that are, for instance, in the following two works developed by members of SESGE:

\* F. Parra-Luna, "**A Score Card for Ethical Decision Making**", *Systems Research and Behavioral Sciences*, 25, 249-270, 2008. Approach that allows measuring the social compliance of companies while evaluating their ethical behavior when quantitatively differentiating between "must do" and "do", that is, between what is projected as ideal and what is achieved as real.

\* The relationship between business philosophy and personal development can be seen in F. Parra Luna, "**The Company Against Itself: the Peremptory Need for a new Business Training as a way out of the Crisis**", Ed. Deusto, Bilbao, 1993. It is a numerical application, where ethical business behavior (participation of personnel in profits / losses), would not only increase economic profits, but rather, it would make salaried workers self-developed through their participation.

## CONCLUSION

Whether or not it is true that the post-COVID-19 world is going to change as radically as it is said, what is verifiable truth today and for a long time, is that are the sufferings, injustices, conflicts and disasters caused by the wars, terrorisms, absurd religious conflicts. That is why the successive steps: **RPUV → AXIOLOGICAL PROFILES → PROFIL OPTIMIZATION → CONCEPT OF PROGRESS**, it is an scheme that has had multiple applications at personal, local and other levels, and is presented as scarcely criticizable since it represents the totality of needs / values felt and wanted by the totality of human beings in no matter what time and place. COVID-19 could have arrived so that these universal "end-values" with their axiological profiles and their final notion of Progress are visualized and decidedly pursued as a fundamental universal norm.

And this may well be the historical moment, to become definitively aware of the need to react ethically and functionally, for the benefit of so many abandoned population layers of world society while others enjoy scandalously superior conditions. And it is not because the Coronavirus makes distinctions and injustices, but because it does show our relative organizational, economic, political and, maybe also, moral insufficiency.

F. Parra Luna.

Las Rozas, 12.5.20

### Obituaries

\*Last February 24, the philosopher, physicist and epistemologist **Mario Bunge**, died in Montreal at 101 years of age in full possession of his physic and mental faculties. Of his extensive production it is worth noting "**A World of Systems**," vol. 4 of his Treatise on Basic Philosophy, Reidel Publishing Company, 1979. In my opinion, which I think is quite shared that Mario Bunge was a genuine personal example who integrated scientific rigor, expository clarity and social commitment. A great loss, but we are left with his work and his memory.

\*In addition to Mario Bunge, other illustrious colleagues have recently abandoned us as:

**Enrique Herrscher** (Organizational Changes)

**Vladimir Valefebv** (Reflexive Theory)

**Charles Francois** (Systemic Concepts)

Also big losses for Systems Sciences.

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### Future congresses agenda:

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IEEE-CTISC 2020 : 2020 2nd International Conference on Advances in Computer Technology, Information Science and Communications (CTISC 2020)



Link: <http://www.ctisc.net/>

<b>When</b>	Jul 10, 2020 - Jul 12, 2020
<b>Where</b>	Suzhou, China
<b>Submission Deadline</b>	May 30, 2020

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CISDM 2020 : 2020 2nd Euro-Asia Conference on  
Information System and Data Mining (CISDM 2020)



Link: <http://www.ecisdms.org/>

<b>When</b>	Dec 9, 2020 - Dec 11, 2020
<b>Where</b>	Bankok, Thailand
<b>Submission Deadline</b>	Oct 31, 2020
<b>Notification Due</b>	Oct 31, 2020
<b>Final Version Due</b>	Oct 31, 2020

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GreeNet Symposium - SGNC 2020 : 11th Symposium on  
Green Networking and Computing (SGNC 2020)



Link: [http://www.josip-lorincz.com/Portals/0/2020\\_CfP\\_Green%20net\\_lorincz\\_capone.pdf](http://www.josip-lorincz.com/Portals/0/2020_CfP_Green%20net_lorincz_capone.pdf)

<b>When</b>	Sep 17, 2020 - Sep 19, 2020
<b>Where</b>	Hvar, Island of Hvar,Croatia
<b>Submission Deadline</b>	May 20, 2020
<b>Notification Due</b>	Jul 1, 2020
<b>Final Version Due</b>	Jul 30, 2020

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## CIIS 2020 : III International Congress in Systems Engineering



Link: <http://ciis.ulima.edu.pe/en/>

<b>When</b>	Nov 17, 2020 - Nov 20, 2020
<b>Where</b>	Lima
<b>Submission Deadline</b>	Aug 17, 2020
<b>Notification Due</b>	Sep 18, 2020
<b>Final Version Due</b>	Oct 2, 2020

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## International Conference on Computer Science and Software Engineering (CSSE 2020)



Link: <http://www.csse2020.net/>

<b>When</b>	May 22, 2020 - May 24, 2020
<b>Where</b>	Beijing, China
<b>Submission Deadline</b>	May 22, 2020

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## IEEE-CVIV 2020 : 2020 2nd International Conference on Advances in Computer Vision, Image and Virtualization (CVIV 2020)



Link: <http://www.cviv.net/>

<b>When</b>	Jul 10, 2020 - Jul 12, 2020
<b>Where</b>	Suzhou, China
<b>Submission Deadline</b>	May 30, 2020

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## Other congress :

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### **SIE. SIMPOSIO DE INFORMÁTICA DEL ESTADO.**

Tipo Nacional.  
Buenos Aires. 31/05/2020  
10-14 Agosto, 2020

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### **2020 IEEE INTERNATIONAL CONFERENCE ON SYSTEMS, MAN, AND CYBERNETICS (SMC)**

[Invite](#) [Print](#) [Save to calendar](#)

**Date:** October 11, 2020 - October 14, 2020  
**Location:** Toronto, CA

<http://smc2020.org/>

**Categories:** SMC Society Conferences

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### **SMC 2021 2021 IEEE INTERNATIONAL CONFERENCE ON SYSTEMS, MAN, AND CYBERNETICS**

#### **DATE & TIME**

Sun, October 17, 2021 – Wed, October 20, 2021

[Add to calendar](#)

#### **LOCATION**

Melbourne Convention and Exhibition Centre  
MCEC 1 Convention Centre Place, SOUTH WHARF VIC, 3006

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## ANNEX 1

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### INVESTIGATION PROJECT

#### Motivation

A team formed by members of the Sociedad Española de Sistemas Generales (SESGE) y de las universidades Complutense de Madrid y Montpellier, has undertaken an investigation to offer a first explanation of the COVID-19 pandemic in 73 countries through a score of explanatory variables, where the genetic variable "Haplogroup R1b" is presented as a possible explanation of a significant part of invariance.

The inclusion of this hypothesis is based on the geographical correspondence of the beginning of the pandemic (northern Italy, Madrid, Barcelona, France, Belgium, the United Kingdom, Ireland and the USA), with the percentages of the factor "Haplogroup R1b" in these populations, also confirmed by statistical correlations. An attempt will be made to present the results to geneticists in case there is a relationship that it is not only accidental or merely statistical.

#### A complementary note from the editor:

Although the exchange that follows is in Spanish, I want to leave it that way, in order to record the interest and the danger that the use of the so called genetic factor "Haplogroup R1b", supposes and our concern when inserting it as one more explanatory variable in the explanation of the Coronavirus, which in some cases it can explain up to 82% of its variance (see table 3).

---

#### El 18/04/2020, Parra Luna escribió:

Querido Antonio:

Lo que dices resulta impresionante al mismo tiempo que peligroso desde el punto de vista científico y a la espera de lo que nos diga David Roiz, y ojalá que él o algún colega genetista puedan sostener **la hipótesis de una relación causal entre el R1b y la gravedad del virus.**

Intentaremos encontrar esta relación, pero mientras tanto creo que puedes preparar un informe explicativo donde quede claro que emitimos esa correlación, **solo por si acaso los especialistas en la materia encuentran que resulta sostenible biológicamente. Nosotros no nos lo creemos, pero presentamos la hipótesis estadística por si resulta significativa.**

Al mismo tiempo **la hipótesis me resulta personalmente terrorífica, ya que supone un determinismo biológico que inutilizaría gran parte de las medidas sociales para luchar contra el virus.**

En fin, el tema es delicado y me gustaría hacerte un par de observaciones:

1. ¿Que pasa si abandonamos la hip. R1b y nos centramos solo en el resto de las variables?. ¿Que % de varianza se llega a explicar? Creo que es algo que deberíamos hacer y conocer en paralelo mientras se aclara el misterio de R1b.



2. Habría que repetir el modelo tomando como la única variable a explicar los "Afectados por millón de habitantes" ya que sería el hecho más directamente concernido por el R1b.

En fin, Antonio, esperamos de nuevo tus interesantes conclusiones.

---

Lógicamente envío copia a Antonio Sánchez-Sucar y a David Roiz.

---

**El 18/04/2020, Antonio Caselles escribió:**

Hola Francisco:

he hecho el la búsqueda de funciones lineales y no lineales que se ajusten a los datos de las variables explicativas que propones (solo para la UE) y he encontrado lo siguiente:

**1. Con solo la variable Haplogrupo R1b se puede explicar el 85% de la variabilidad de GRAVEDAD (es una función exponencial positiva).**

2. Se puede mejorar este ajuste introduciendo una variable más. La mejor es "GP Salud pc" y entra en la fórmula en forma inversa ( $1/x$ ). Con esto se alcanza un  $R^2$  de 0.95.

3. Introduciendo una o más variables se puede llegar a lo sumo a 0.97-0.98 complicando algo más la fórmula. Creo que no merece la pena.

Ya ves, cualquiera de las demás variables como mucho podría explicar un 2%-3% adicional, que podría incluso no ser significativo.

---

**El 18/04/2020, Parra Luna escribió:**

Antonio:

**Me ha costado bastante trabajo pero he logrado obtener una cierta cuantificación del factor llamado "Haplogrupo R1b"m que puede resultar realmente una variable muy explicativa.**

En todo caso será la primera vez (que yo sepa) que se presenta un modelo explicativo del Coronavirus con tres rasgos diferenciales:

1) Se explica el coronavirus en sus tres dimensiones de "Afectados"; "relación muertes/curados" y su integración como GRAVEDAD total. O sea, podríamos explicar tres variables por separado.

2) Utilizamos unas 14 variables explicativas por lo que se supone que aumentaremos el porcentaje de varianza explicada.

**3) Introducimos, espero que por vez primera, esa variable biológica que tiene en cuenta la genética poblacional. Y por el momento parece existir una cierta correlación intuitiva o visual entre dicha variable y la incidencia del coronavirus por países.**

De manera, Antonio, que estoy deseando ver qué resultados obtenemos. Pero si la falta de datos para algunos países distorsiona el modelo a escala mundial, podríamos tener en cuenta esta variable R1b solo para un modelo europeo ¿qué piensas?.

Envío, pues, la última matriz de datos, con dos nuevas variables incorporadas: el "Porcentaje de concentración urbana" (facilita el contagio) y el "Haplogrupo R1b" que por lo que parece apreciarse también lo facilita.

Por cierto, ha aceptado colaborar con nosotros el Biólogo español David Roiz, que actualmente es Jefe de Laboratorio en la Universidad de Montpellier. Según este biólogo habría que ser extremadamente prudentes al extraer conclusiones causales derivadas de una posible alta correlación meramente estadística, pero lógicamente presentaremos las conclusiones (si llega el caso) anticipando la posible falta de apoyo teórico de esta relación.

Y mientras esperamos que Antonio Sánchez-Sucar nos envíe una buena nota o informe complementario sobre el ejemplo alemán, identificando, aparte de los datos de los que disponemos en la matriz adjunta, qué tipo de comportamientos sociales, culturales, sanitarios y otros explican la incidencia del coronavirus con relación a España.

Alemania presenta un índice de Afectados (miles) por millón de habitantes de 1.57 España de 3.69

Aunque me temo que es a España a quien corresponde explicar esta diferencia. Pero la experiencia de Antonio en Alemania nos puede ayudar a comprender mejor.

---

Some basic bibliography about the "Haplogroup Rb1":

\* Wikipedia: "Y-DNA haplogroups in populations of Europe."

See the bibliography where there are 82 articles or works published about the genetic conditions of populations.

\* Also, www.:

"Race, Ancestry and Genetic Composition of the U.S. Newgeography."  
com by Richard Morrill.

\*A. Gomez Moreno "Clausura de un curso infinito (2019-2020): Coronavirus, Genética de poblaciones y Studia Humanitatis."

See his information:

Europe ( [https://www.eupedia.com/europe/european\\_y-dna\\_haplogroups.shtml](https://www.eupedia.com/europe/european_y-dna_haplogroups.shtml) )

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**Año 3, Número 8, Mayo 2020**

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**Nueva Junta directiva de la SESGE:**

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**Vocal 5º :** Ricardo Barrera

**Vocal 6º :** Luis Gómez

**Vocal suplente :** Manuel Ortega

**Vocal suplente :** Mercedes Oteiza

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## **EXISTE**

### **PARA POTENCIAR CINCO FINES FUNDAMENTALES EN EL ANÁLISIS DE LOS HECHOS SOCIALES**

1. *Demostrar que en el análisis de cualquier fenómeno, si no se toman todas las variables relevantes, los resultados serán espurios, lo que obliga al menos a clasificar las variables intervinientes en esenciales, secundarias y despreciables, todo en función de los fines de la investigación y los medios disponibles. Gracias a esta operación epistemológica, el enfoque sistémico ha logrado descifrar, p.e., enigmas de textos literarios no resueltos desde hacía siglos.*
2. *Señalar que salvo los objetos inertes, todos los funcionales, tanto naturales como artificiales, son sistemas de “transformación” (T) cuyo fin es maximizar las Salidas (Y) a partir de la menor utilización posible de Entradas (X), de manera tal que la expresión  $T=Y/X$  se convierte en la expresión ecológica por excelencia maximizadora de la negaentropía universal.*
3. *El paso de los sistemas biológicos o mecánicos a los humanos cambia su naturaleza hasta el punto de convertir sus “salidas” en “valores universales” que responden a “necesidades universales” sentidas por los seres humanos que los componen en todo tiempo y lugar. De aquí el papel de un Patrón Referencial de Valores Universales (PRVU) que debe servir de medida de las realizaciones de todos los sistemas humanos, sean individuales o sociales, naturales o artificiales. Representa el enfoque humanista absolutamente necesario en el análisis de los sistemas sociales.*
4. *Esta naturaleza axiológica de las salidas en los sistemas humanos clasifica y explica la naturaleza profunda de las ideologías, que no son otra cosa que una fijación excesiva de preferencias sobre unos valores a costa de la minusvaloración de otros. Representa la crítica de las ideologías como meras actitudes mentales anquilosadas de naturaleza axiológica.*
5. *Además del tratamiento científico exigido, AVANCES SISTÉMICOS mantendrá una vocación internacional y ética, de tal forma que los problemas a plantear serán los que estén incidiendo gravemente en cualquier sitio del mundo, en un intento de introducir alguna luz en sus orígenes y posible solución.*





# **Avances SISTÉMICOS**

**Año 3 , Número 8 , Mayo 2020**



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