

How to Understand the COVID 19 Epidemic Phenomenon?

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Summary

The author discusses the mental barriers that are obstacles to understanding the phenomenon of COVID19 pandemic, and proposes a thesis that the crisis is not due to a new or a sudden mutation of a dangerous virus, but rather the collapse of our natural biological defences as we head into a civilizational cul-de-sac. The consequence is an attack by elements from within a biotope, which for millions of years had held within it viruses in many ways similar to that currently ravaging the planet. The popular perspective however is that of an alien, oriental, indeed criminal entity against which we must defend ourselves. However, the newest scientific research posits a different vision, which situates the virus in a biocenosis of which we are also a part. A balanced relationship had existed in which both man and virus formed a functional whole and in which biological mechanisms existed to create immunity (analogous to vaccination) up to the point where this relationship has been disrupted by man's activities. The reduced resistance to infection of today's children is symptomatic of this disruption as increasing susceptibility to infection appears to be in tandem with our civilisation as it continues its so-called progressive trajectory. We are now under attack from elements within our biocenosis with which we had been existing in a functional relationship for millions of years. In the evolutionary process viruses were assigned a regulatory function maintaining herd functionality through effecting the removal of aged and ailing units. The Sars2 Cov virus now performs this function killing those weaker aging or ailing members of our species and illustrates the reality of the 6th great species extinction as a part of the Anthropocene. The author treats COVID 19 as a factor accelerating human transformation to one in which cyborgization become a dominant trope of existence, affecting in the first instance human communities in which urbanisation and civilizational transformation is proceeding rapidly.

Keywords: COVID19 Pandemic, Mass Extinction of Species, Coconization, Predator Mentality, Human Civilization, Cyborgization, SARS-CoV-2 Virus, Integrative Understanding of Human Health

Introduction

The COVID 19 outbreak, although it appears to be a banal seasonal infection caused by similar coronavirus viruses, has had an unprecedented global effect in terms of health, social, psychological, economic and civilization [1]. There are great difficulties in understanding the COVID 19 pandemic which require us to overcome barriers posed by our existing thought patterns. There is a poor appreciation additionally of the cascading reaction phenomenon, the catalyst of which is the SARS-CoV-2 virus. This has paralysed the effective functioning of civilisation in the post-industrial age, one which still retains the outdated structures and functions of the recently concluded industrial era of the preceding three centuries [2-4]. Thanks to antibiotics and vaccinations, we basked in the illusion of victory in the ongoing technological battle against bacteria and viruses but we are now failing and in a sense fleeing to the refuge of isolation in micro and macro isolators and submitting to a gradual mass cocoonization,

this publication develops the thesis the author outlined in his recent publication in the Journal of Psychiatry and Psychiatric Disorders [4].

The first of the discussed mental barriers is the tendency to limit the extent of our observations and fragment our vision of man and his environment. This has been the consequence of how science developed during the last two centuries, dividing into hermetic, conceptually isolated and poorly communicating specialist areas. This creates difficulties in dealing with the enormity of information that's available in this era of the Internet and as a result making a holistic understanding of how life is organized on earth and the relationship between man and the biotope almost impossible.

The second barrier is the mentality of the recently concluded industrial age which remains deeply rooted in us. It privileges the power-hungry man conquering the earth and the universe, promoting the cult of prosperity, unlimited possessions, perfect health, limitless life-span and free to act with impunity and all the while ignoring the constantly growing inequalities in prosperity, health and life expectancy of others.

Another barrier, deriving from the currently dominant Judeo-Christian tradition, is the perception of man as the ruler of the earth which has been entrusted to him by God. He is most perfect being on planet Earth, subordinating the world to his will and distinguished from other beings by possessing a soul with the divinely ordained potential of immortality. Man has the possibility of constant contact with God who watches over the world order and is a kind of force majeure, which has the power to countermand our decisions but permits us the luxury of knowing our mistakes can be corrected. In today's world and especially during the pandemic, there is a distancing from the previous notion that God has sent the plague as a judgement, his temples are closed, people are left to their own devices but require superhuman abilities to cope with the pandemic.

The last of the barriers discussed in this publication is the human predator mentality, which despite the newly acquired epidermal culture of peaceful coexistence, still has not lost its fangs and claws and perceives the world as one in which only allies or enemies exist. Any threat to our hegemonic vision originates from an enemy who must be eliminated

The First Barrier

To understand the COVID 19 pandemic phenomenon, it is necessary to briefly recall relevant information from various scientific disciplines affected by the pandemic. According to this author, the highest evolutionary stage in the individual development of living organisms on earth is a cell, which occurs in a similar form in both humans and animals, plants and bacteria. In addition to the cell, older forms of evolutionary change have survived, such as viruses, viroids, prions and other simple forms of biological existence that we continue to discover. All these forms of biological existence are functionally combined into a biocenosis living layer of earth, which is based on black mould and beings living in it, both living in the ground as well as animals walking on its surface and other life forms, some such as birds, insects, bacteria have phases in which they exist temporarily in the air [4, 5]. Although a significant proportion of cell colonies are organized in the form of organisms capable of movement, they still form a functional unity called the combined biocenosis, which can create niche premises differing in composition and function. However, the infinite no of interactions in and under the changing planetary influence of climate, (now changing) the whole ensemble should be considered a global phenomenon.

Although animal organisms, including humans, were able to create a community of specialized cells having a coordinated function and covered by a body shell enabling movement, they are only another element of the hierarchical organization of the biocenosis. Similarly, subsequent organizational structures of higher order communities, such as family, tribal, national and supranational communities, are the next phase of the biocenosis evolution and function similarly to the organisms of the human units that compose them. They constitute a mega colony based on lower level elements which exhibit increased organisation and increased specialisation as they ascend in the hierarchy of colony complexity, but in tandem lose the capacity for independent existence at the human level.

This does not change the fact that all forms of biocenosis existence

are still closely integrated and this is due mainly to the physico-chemical phenomenon that within the biocenosis there is a constant flow of atoms comprising non-organic and organic matter related to metabolic transformations and information flow as a workflow.

The biocenosis flow disturbance caused by the destructive actions of "industrial" man has now triggered the activation of the sixth mass extinction process of animals and the accompanying climate changes [6]. This indicates a significant geological change which we now refer to the Anthropocene era as it heralds a new geological era induced through human agency. This interpretation of biocenosis function and structure, echoes that quoted earlier that modern technical and scientific progress has largely confirmed the vision of the human body as a strongly integrated mega colony of thinking cells [7, 8, 5]. An important body of evidence supporting this thesis is the fact that the human body develops from one germ cell and stem cells in the human body are capable of transforming into cells of any tissue and thus characterized by a similar potential for universality. This confirms the view that the original organism is a cell, that while adapting to perform specialized functions loses its universality and independence within the mega colony, which is the human body. A similar process applies to man adapting to a specialized function within the mega social organism. Today we know much more about the complicated communication between the cells of our body, suspended in a fluid space constituting 3/4 of our body and with a composition similar to that of the primeval ocean in which biological life originated and the evolutionary process leading to the creation of our species began. We also know that cells can selectively stimulate or inhibit the activity of other cells, including activation of the apoptosis mechanism by which cells are triggered to self-destruct, in response to a situation where their continued existence would pose a threat to the integrity of the organism itself e.g. the body. Our cells also lose a number of features necessary for independent existence as they become more specialised but nevertheless still remain living, thinking entities.

The above statement deviates from more widely accepted popular beliefs and as such will be considered in more detail below. The determination of the human genome sequence in 2003, as part of the Human Genome Project and the subsequent work on mechanisms regulating its activity (Human Epigenome Project) prompted questions about the function of a very significant amount of human DNA that was not directly related to genetic genome function. It is now known that our body cells and cells of other organisms have a very efficient and capacious computer based on DNA chains in chromatin which signal substantial possibilities of complex decision-making processes and memory recall [9, 10].

Although Werner Heisenberg received the Nobel Prize in 1932 for his leading contribution to quantum mechanics and even though since then physics and quantum mechanics have made great progress, our current understanding of the world still belongs to the category of the now dethroned Newtonian physics. Knowledge of quantum mechanics makes it possible to understand the transmission of information over distance and its materialization by changing the local wave configuration. New scientific observations seem to confirm the view that matter as a whole is a living organism and subject to the principles of transformation of development cycles. New structures of a given development cycle are created constantly and changes in development cycles

are catalysed in a sequence which starts by creating a specific structure, then cycles through phases of efflorescence, involution and disappearance before supplying material to feed the next cycle. The upper floor cycles follow the lower floor cycles, but the wave matrix remains unchanged and the energy carrier is the motor, the essence of life. Energy is inextricably linked to movement, movement is the matrix of matter, intelligence and consciousness of matter, the source of its transformation and the multitude of entities [11]. The question of how the world began is as difficult to answer today as it was thousands of years ago, was it “divine breath” which initiated movement or the “big bang” that generated and then accelerated the snowball effect of further changes? Democritus and his successors had sensed this sequence based on their observations. Sophists thought differently as they were aware of the illusory nature of our perception and so concluded that the world in our eyes is only an illusion. The quantum physics era we are now entering seems to reconcile these seemingly opposite positions in which matter is both present and absent, time and space are relative, and the higher variables are movement and energy. Regardless of cosmic distances and the current form of materialization, matter communicates with itself and is one great thinking being. We know from scientific evidence, how necessary for human life both biologically and mentally, are its connections with other elements of the biotope which were permanently violated in the industrial age. The West has played its Bible sanctioned dominating role in triggering this tragic development and we pilgrims on this planet must pay the price of occidental hubris.

Biocenosis damage by human civilization activates the mass extinction of species and includes unfortunately the extinction of man [12-14]. This becomes evident when our “western” life is examined: there is an overall decrease in immunity and fertility, a proportional reduction of part of our fully active life as and reduced quality of health. Instead, periods of preparatory and regenerative periods are longer, with increased susceptibility to civilizational diseases which flag the inevitability of activating self-destructive processes such as Thanatos is [15]. If we wish to ensure the continuation of man’s biological existence, it is necessary that we cooperate with millions of other biological entities with which man is inseparably connected. These consist of microbiological entities such as bacteria, fungi, viruses, prions and also macro-organisms, such as trees, animals, plants and other people. Man, thanks to cooperation with the other elements of the biotope, breathes, nourishes, is warmed and healed. He absorbs the products of other elements of the biotope of which he is a part and in exchange as it were, transfers the atoms of his own body to other elements of the biotope. This in essence is a constant atomic renewal of his own body and in a lifetime, several complete exchanges of atoms between his body and the biocenosis take place. Man himself, is a biocenosis element with a fairly high degree of autonomy because he is able to move independently, but is unable to live independently outside the biocenosis. The human body is a transitional structure, elements in transit mode and moving in continuous fluid motion within matter. As has been shown by quantum physics analysis, communication is maintained despite translocation: the displaced elementary particles still maintain constant contact with the matrix through the quantum mechanism of entanglement. Man as matter, is therefore an integral element of that living being- the biocenosis and there are many indications that this integration exceeds the

scope of the material dimension including also the IT dimension. The flow of information is co-created by the whole of the animated world. We now know that the ability to generate thought processes, so obvious in humans, also applies to animals, plants and other living beings which are able to think at different levels of complexity. Recently machines that perform simple mathematical functions have been developed and there is considerable concern at the potentially dangerous consequences of such intelligence as it exponentially increases.

The Second and Third of the Barriers

These barriers are linked and related to the prevailing mentality of the industrial era and the dominant religious faiths of western culture. Faiths which still privilege Man as the omnipotent master of nature, reflecting the face of God and fortified by HIS power. Man’s destiny in this paradigm is to rule the world, subjugate nature and conquer other worlds. His civilisation is the most advanced and it is to this that obeisance must be made and to which the surrounding primitive world must adapt. This diktat includes viruses sequestered in remote corners of a world still untouched/unspoiled by civilization. Our current views regard the cell is as a primitive entity, reminiscent of a flawed bacterium, we can grow it in test tubes and as such it will never match the perfection of man. A significant proportion of people are convinced that the climate change debate and claims of ecological damage are just propagandistic, serve politicians and promote base commercial interests. Such a perspective leads inevitably to a stubborn persistence of old ways of living and thinking. There is limited awareness of the negative consequences of land expropriation and exploitation and the devastating extent of infrastructural development during the industrial era. From a western perspective, such a rationale explains why we cling to the actively promoted image of a deadly virus which has accidentally been released in a polluted corner of the world in Wuchan and had its origins in the archaic tradition of consuming wild animals. With this viewpoint to the fore, we can relax that our global civilization is still okay - we only need to clean up after the mess left by those less informed (or less advanced). This understanding resonates with notions of an international conflict and a terminology unmistakably bellicose. The thesis now being advanced is that a deadly virological weapon has been developed in Wuhan and (almost like an atomic attack) is being used to destroy the (our) western world! I will discuss this thesis later when describing the fourth mental barrier. In arguments defending the superiority of Western civilization, one is forced to fly in the face of facts concerning our use of concrete, steel and the progressive destruction of the environment which reaches to the roots of the animate nature surrounding us. The result is patently clear, our connections with the complementary part of the biocenosis is being destroyed which augurs the destruction of the natural shield with which evolution has equipped us (Wasilewski B .2020). This shield consists of the interaction of a complex multi-element biocenosis, whose protective effect is the result of the interaction of functionally related biological organisms: from mammals to microorganisms, plants and inorganic substrates. Viruses that are now lethal for Homo Sapiens, have been forced from the natural niches of their habitat which they have occupied for hundreds of thousands of years, by the ongoing destructive action of man which has triggered activation of the sixth phase of mass extinction of animals. This is evidenced by the effect of progressively lowering the child’s primary resistance to infection

to the SARS-CoV-2 virus as it integrates into our western civilization. By destroying the biocenosis of which we are an integral part, we have become our own worst enemy, in effect unconsciously playing the lead role in our own destruction. The validity of the thesis just described, stressing the dominance of civilizational factors in the SARS 19 pandemic phenomenon is strengthened by large differences in the prevalence of infection in individual countries and the mortality rates associated with it [16].

Such factors implemented in response to the pandemic, include isolating man with a mask, maintenance of social distancing, sterilization of the environment, insulation of rooms and houses and represents a final separation from the parent biocenosis. These measures demonstrate the need to recreate in our cocoon, those elements and processes of the biocenosis necessary for our lives such as air-processing plants, growing micro-organisms necessary for the digestion of food and the production of essential vitamins and trace elements. However, it will be very difficult to restore the biocenosis elements involved in creating resistance to viral and bacterial infections. The mental barriers described, prevent a rational analysis of the problem and has generated visions of a conflict where the protagonists exhibiting almost biblical features- the archangel and the demon- struggle for supremacy. This imagery of the conflict between good and evil is so entrenched and powerful that our gaze remains averted from the real scenario, in which we as an integral part of the biotope are fused with all its elements, down to the most primitive, including viruses. RNA viruses which include SARS-CoV-2, are the only group of viruses known to have left a fossil record in the form of endogenous proviruses and approximately 8% of the human genome is made up of these elements. Research led by Horie Masayuki from Osaka University provided the initial evidence for endogenization of non-retroviral virus-derived elements in mammalian genomes and provide novel insights not only in the generation of endogenous elements, but also into the role of RNA virus as a source of genetic novelty in its host [17]. Phylogenetic analyses have demonstrated the persistence of endogenous primate viruses in the genome for 40 million years. The role of the viral component of the human body is still not fully understood and we still have incomplete information about its composition. We still are researching the impact it has on the physiology of our health and how precisely it effects function, but we do appreciate however that viruses are functionally associated with us. In the human genome there are numerous viral sequences integrated with it, these are the so-called EVE (Engogennous Viral Elements) and about 8% of the human genome consists of HERV (Human Endogenous RetroVirus) sequences. Research indicates the large variation of the viral component depends on a variety of factors including diet, climate, infections, immune status and age. Indeed, it is estimated that 109-1015 virus particles exist within one gram of intestine and 106 in 1 cm² of skin. In addition, completely healthy people can be chronically or temporarily infected with several types of viruses [18]. A similar situation is seen in the case of bacteria where there is extensive integration of this entity in human cells and illustrative of this profound integration is the fact that there are more than 800 species of bacteria in the large intestine of man. The number of bacteria in our body exceeds by 10 trillion the number of cells in our body which are 3 x 10 to 13 in total, while the number of bacteria is 4 x 10 to 13. Other constant

companions in our lives are fungi of which our body is 400 species from about 5 million known inhabit our bodies [19].

When discussing viruses, we think usually in the following manner: our virus free organism is now under attack by this new unexpected and hostile viral germ, whereas the actual situation is quite different. The community of cells that make up our body coexists with numerous viruses, remaining in a dynamic balance with both the viruses that inhabit our body and the viruses of other living biotope elements that surround us, such as animals and plants. Viruses as a group are parasites and an important functional element of any ecosystem. In situations where the biotope is in balance, has not been invaded and continues an uninterrupted existence, the virus, intimately attached to the host contributes to maintaining biotope balance by eliminating weak dysfunctional individuals organisms. It thus causes changes in the behaviour of its hosts (e.g. through hormone mediated effects) and even modifies bodily function by changing gene expression. We realise now that to a large extent, we are indebted to viruses for the phenomenon of mutation which is a source of biodiversity and a stimulator of phylogenetic development.

A long standing and widespread agreement exists within epidemiological circles that around 70 percent of our infectious diseases are derived from animals and for years the risk of a “species leap” of disease transferring from one species to another has been known. It is also understood that the emergence of new strains of coronaviruses has been due to the massive violation of the natural balance in the last century and this has been repeatedly stated by experts. Virologists have known for a long time that man is functionally connected with viruses to such a large extent that he cannot isolate himself from them and live in sterile isolation. Each of us is a carrier of bacteria and viruses, including dangerous pathogens which normally activate potential disease processes. This also applies to the commonly occurring group of coronaviruses which use RNA as genetic material and whose infections caused by this group also effect with animals and birds. As such, they are constant companions and fellow travellers in our lives and objects of bilateral transfer. An example to consider is that of our skin, which within and on it are situated pathogenic streptococci and staphylococci. In a balanced biocenosis situation, they retain their potential for serious infection, but instead through the agency of an asymptomatic infection, they establish a degree of immunity for the human host. Viruses have been a constant accompaniment to cellular development since its beginnings four billion years ago, yet only until recently were they considered and treated as part of the living world. Viral research to that point was limited to the study of individual pathogens. The world of viruses includes 1,500 species identified so far and classified into families, subfamilies and rows.

Viruses do not exhaust the catalogue of the microworld, in which there are still viroids and prions occurring in large quantities and about which we still have only fragmentary information. The coronavirus family (coronaviridae) is divided into two subfamilies, the SARS-CoV-2 virus being the source of the current pandemic belonging to the beta subfamily Coronavirinae. Research on coronaviruses conducted since the 1960s confirmed their presence

in people suffering from mild respiratory tract and laryngeal infections but which only in the weak and elderly posed a threat to life. Contact with coronaviruses is also common in western countries, serological studies show that virtually all people aged > 10 years have had HCoV-NL63 infection (the average age at which infection is 3.5 years). Coronaviruses surround us and exist in the birds and mammals that live in our environment causing numerous respiratory, nervous, internal organ and digestive tract diseases. The most well-known diseases caused by animal coronaviruses include infectious peritonitis in cats, epidemic swine diarrhoea, viral gastroenteritis in cattle and infectious bronchitis in birds [20]. It has long been observed that animal coronaviruses are transmitted to people who although infected are mostly asymptomatic but are carriers of a virus which is infectious to animals. Under conditions of an uninterrupted, balanced biotope, the two-way transmission process is not a significant threat and is a permanent element of the biotope's operational mode. Only the contact situation in the pathological environment in which the partners are biologically weakened, favours the transmission of virus parasite to man.

Coronaviruses are one of the largest RNA viruses in terms of genome length (~ 30,000 nucleotides) and virion size (spherical, 80-180 nm in diameter). We have known for almost two decades that coronaviruses are able to mutate and change host under favourable conditions. SARS-CoV-2 coronavirus mainly affects the patient's respiratory system, but other organs can also be damaged by the virus, resulting in frequently observed changes of the heart, kidneys and liver as well as malfunctioning of the nervous system. Human pathogenic SARS-CoV and SARS-CoV-2 coronaviruses bind to target cells via angiotensin 2 converting enzyme (ACE2), which is produced by attached to cell membranes of the intestinal, lung, kidney and blood vessel epithelial cells [21]. The virus connects to the ACE2 receptor, which is on the surface of the cell and thus infects the interior of the cell, modifying its function and forcing its own reproduction [22]. Men have higher levels of ACE2 in follicular cells than women and Asians have higher levels of ACE2 expression in follicular cells than White and African- American populations. The binding of SARS-CoV-2 to ACE2 causes increased expression of ACE2, which can lead to follicular cell damage which in turn can trigger a series of systemic reactions and even cause death.

Because viruses of the coronavirus family generally caused mild transient disease states and the vast majority were asymptomatic, they remained for a long time on the margins of scientific research. The picture of coronaviruses changed radically in November 2002 when an outbreak in China, caused by SARS-CoV-1 virus had a mortality of 10% and in 2012-2015 the MERS epidemic (Middle East respiratory syndrome) had a mortality of 35%. Virologists have long and unsuccessfully warned politicians and alerted public opinion about the threat of another future wave of the coronavirus epidemic. Unfortunately, their concern had little resonance apart from some restrained WHO statements concerning Asia.

It is difficult to ascribe any merit to our current enemy – the SARS virus - 19, but it does fulfil the role that viruses from its group perform in a properly functioning biocenosis i.e. clearing the biocenosis of dysfunctional and old units. The temporary paralysis

of a functioning society caused by the pandemic, includes its impact on local economies but also on the wider economic systems/structures which influence to a major degree the economic functions of our Global Village.

The virus within the macroorganism performs the same regulatory role as in the smaller organizational structures of the biocenosis, by releasing the possibilities of structural development blocked by dysfunctional units accumulating economic and social resources, reverting the economic and social patency of the system. The severity and universality of the virus is associated not so much with the aggressiveness of the virus itself, as with the degree of pre-existing pathology within the biocenosis being penetrated by the virus. The scenario is as follows: the virus enters into the existing situation, moves within the edifice which is already rotten as a result of defective financial and organizational mechanisms. These lack solid design and development features which continue to function inadequately but persist because of an on-going Band-Aid type maintenance and insertion of materials into the mechanism the supply of which eventually nears exhaustion.

Our biological functioning was also subject to the maintenance of the same type of band, which meant that people could still function, but only by replacing with inappropriate artificial materials damaged and interrupted physiological regulatory mechanisms related to the integration of man with the biocenosis. The effect of this substandard maintenance and replacement of artificial materials explains why our weakened and malfunctioning global civilization is helplessly waiting for the proverbial “earthquake” of the virus.

Our social macro-organisms as nations, societies, individuals and even our cells are functionally paralysed, because the piratical, so-called progress of our civilisation during the industrial era, was achieved only by mutilating the biocenosis. As already stated, the biocenosis is a living organism of which man together with all other macro and microorganisms is but part of a complex mosaic. The whole ensemble is necessary for life's maintenance and only when man is in communion with all other living creatures through connections within and on the biocenosis, can he survive as a living entity.

The mechanical and chemical agents, products of the industrial age, have separated us increasingly from the ecosystem, accelerating our entry into the extinction phase of this civilisation. This catastrophe can reasonably be expected to mimic the previous 5, as a form of reset necessary when the world enters a developmental cul-de-sac from which there is no escape by resorting to a gradual linear change. The macro biocenosis in such circumstances has lost its steerability and control of the regulatory mechanisms enabling it to function. Such an extreme situation, triggers activation of those self- eliminating mechanisms which reduce the biocenosis to a size in which it is possible to reset functional activity, to re-organise and regain the development dynamics to establish biocenosis integrity again.

One should not regard the virus itself with the fear or panic which characterises the media's depiction of the epidemic. It is

perhaps more appropriate to be fearful if not panic-stricken by the city of its origin, namely Wuhan. The first fatality of COVID-19 was a 61-year-old man, a regular customer of the Huanan “wet market” a market where, in addition to fish and seafood, several dozen species of animals were sold, including exotic ones often considered protected in China. In addition to the meat of animals killed on the spot, sellers packed live animals into kiosks lined tightly together in narrow alleys. Viruses suspected as the source of the current pandemic live in the intestines of bats which inhabit caves, often far from human settlements. However, if they are trapped and then brought live to market and contaminate surfaces with faeces they can infect civets, pigs and people, according to Peter Daszak, president of EcoHealth Alliance and an infectious disease researcher. Professor Shi Zhengli of the Wuhan Institute of Virology, (which the US suspects is creating a virological atomic bomb to destroy it) has said that “Coronavirus is a punishment that nature imposes on people for barbaric habits” [23]. It is increasingly clear that Man has created conditions conducive to the coronavirus’s destructive career, from its facility to rapidly mutate and effect the species jump from animal to man and to finally develop the ability to bind to human cell receptors and adapt to the specifics of the human body.

Unfortunately, conditions facilitating the growth and spread of infection from the wet markets of Wuhan have disturbing similarities to the management and maintenance of animals on large industrial farms, including those in western countries. Such facilities hold large numbers of animals who are often kept restrained, in the smallest possible holding pens or spaces and crowded together within the available space. They are often ailing, weakened, mutilated and are prophylactically administered huge amounts of antibiotics to ensure their survival for commercial gain. The impact of unrestricted and reckless antibiotic administration to animals is a major threat to health as a result of rising resistance to lethal bacteria. If we consider our current approach to animal husbandry as described above, it is not difficult to recognise some similarities with the already described WUHAN markets. The deadliest of the coronavirus species originated in the Middle East and made the species leap from camel to human and it is surely reasonable to expect a species leap in the many large-scale pig or poultry farms of our western countries. The most conducive scenario for virus transmission is where there is very intense human-animal contact and where the habitats of both man and animals are seriously disturbed. Such a situation exists where people, just like the farm animals mentioned already, are crowded together in cramped living quarters and often malnourished or ill as a result of dangerous and sub-standard living conditions. Such were the conditions in Wuhan China where development had recently accelerated, but with consequences which included severe environmental and ecological damage. This ruptured the age-old relationship between man and nature through destruction of the homeostatic mechanisms and the loss of their system stabilising effects. When ecological homeostasis is maintained, even pathogens restrict their expansive tendencies and adapt to the environment without disturbing its functioning and as a result, biotope function is unharmed and sustainability unthreatened. In contrast however, where large-scale exploitation of the environment occurs, with destruction of ecosystems and the presence of a cohort of virus

carriers, a cycling of pathogenic entities including the viruses is accelerated and this entails an increased risk of mutation within microorganisms including viruses.

The fact that the COVID 19 epidemic originated in the Chinese city of Wuhan, where wild animals (not consumed in other regions of the world) had been eaten for centuries, is not sufficient to explain the origin of the pandemic. There is no evidence that the century old practise in Wuhan of slaughtering and eating wild animals precipitated a corona virus species leap similar to what has happened recently. break similar. The situation was changed by the rapid industrialization of Wuhan in the 1950s and especially the explosion of activity within the last decade. This caused a rapid influx of new residents, sometimes from distant parts of China and overseas. Africans for example came in huge numbers and as many as 320,000 came over a short time to Wuhan. Approximately 500 production departments of global companies are located in Wuhan and indicative of the scale of economic activity, the fraction of China’s Gross Domestic Product contributed by the city of Wuhan, is equivalent to 1/3 of Poland’s GDP.

The city has about 9,000,000 inhabitants and over the last decade of there has been an increase of 2 million and about 5 million transient employees came from other regions. People lived in densely populated districts where hygiene and living standards were spoor to non-existent. Some sources estimate Wuhan’s population of 11 million, including the surrounding workforce. Wuhan is the largest transport hub in China and despite the rapid industrial and urban development it is still a city where the old civilization still persists as indicated by continued existence of traditional but still functioning societal structures and norms. It now however must interface with the new 21st Century “modern” civilisation and the contact is not without contrasts and complications as will be discussed below. One such contrast is the so-called wet market complex, where wild animals are slaughtered under unhygienic conditions in a crowded environment which now includes those new arrivals into Wuhan attracted by the rapid industrial development of the city and its surrounds. During three visits to China, I observed the rapid rate of industrialization in the country and the gradual adoption of Western cultural styles and behaviour. A specific phenomenon resulting from the economic policy adopted by the authorities of this country is the designation of demarcated areas of the country for intensive industrialization while maintaining the traditional social structure in other regions as a population base to boost the developing regions. This has led to a situation in large industrialized cities such as Wuhan, in which the majority of the population resides on a temporary basis. People send their wages to their distant homes and are forced to live in greatly crowded and very difficult living conditions. It also creates a contrast between the civilization infrastructure of the 21st century city and the ancient civilizational habits of its population as discussed earlier. This interface is one where biologically weakened animals torn out of their natural environment are in contact with biologically weakened people torn out of their natural environment.

The multifaceted, integrative understanding of human health and its dysfunction that I wrote about in previous publications

enables a more complete understanding of many health problems, including the problem of the COVID-19 epidemic [24]. This modern plague in its biological impact is far less serious than the psychosocial, economic and civilizational impacts which are far more significant. The image of the COVID 19 pandemic presented in this study requires further development and critical review but for now my intention is to provide a long distance camera shot to get some insight and a general overview of the phenomenon. Attempts to investigate and understand a world that deviates from traditional 'paths' means navigating a safe passage through an anthro-sociological minefield. Positions in the discourse are held often with a religious oriented fervour and like true believers the "Select" will not tolerate dissent and alternative theories. Another mine easily detonated is that of scientists rooted in their specialist silos holding to their different opinions and explanations and unable to talk to each other in a transdisciplinary manner to handle Wicked Problems such as that posed by Covid 19. Any challenge to their jealously defended explanations is to unleash a ferocious attack on he who would dare

Fourth barrier - predator mentality

We are culturally disposed to a vision of man at peace with the world, peacefully oriented to it and tend to follow the biblical injunction of turning the other cheek to our enemies. Unfortunately, this disposition conflicts with reality as our human mentality, despite the newly acquired epidermal culture of peaceful coexistence, incorporates a predator psychology complete with fangs and claws [25-27]. The understanding of predator psychology is associated with the perception of the world through the lens of a zero-one relationship, you are either an enemy or ally -with me or against me. Holding tenaciously to this idea the objective of a virus-free territory is eagerly accepted- if an insidious enemy has invaded – it must be destroyed! Modern man, both biologically and mentally, resembles a bulb containing successive layers acquired during species development. The tribal and cave mentality always accompanies us in part, but it is only when the socio-economic crisis is in full swing, a situation which triggers offensive authoritarian ideologies, that it emerges with all the belligerence it can muster. For those interested in the topic, I refer to the literature on this problem [26, 27].

In the context of the global challenge to the existing economic and political order caused by the COVID 19 pandemic, the virus was on the front line of attack. But the first shot in the pandemic conflict was fired by the US, although it cannot be ruled out that other interested parties, such as Russia, India or any of Europe, can be definitively excluded. At the end of 2019, "Hackers" attacked the Wuhan Virology Laboratory, a little later hacked WHO's online resources and as reported by the Washington Post, data on the Centers for Disease Control and Prevention were also stolen. This is a US government agency which together with the Bill and Melinda Gates Foundation financially supports WHO. Altogether around 25,000 were stolen passwords - reported the Washington Post.

The next cyberwar stage was the unleashing of a media war about the SARS-CoV-2 coronavirus, whose central figure was Professor

Shi Zhengli of the Wuhan Institute of Virology, suspected (as stated earlier) by the US government of constructing a virological atomic bomb to destroy the United States. When reporting events from the cyber war front, it is necessary to discuss the mechanisms which are now operating to conduct it. The trolls and hobbyists present in the popular consciousness today are comic book or fairy-tale characters compared with the existing powerful figures and structures of the Cyberspace Defence Forces. They were legitimized by the decision of NATO countries during the 2016 summit in Warsaw during which cyberspace was recognised as a domain in which military operations could be conducted. In effect they were following Russia and China who developed similar systems and structures much earlier. Defensive and offensive activities in the field of cyberspace include, disinformation and manipulation of public opinion as well as targeted actions at selected professional, religious or business groups.

One of the first offensive attacks was fake news story about the alleged statement of the Japanese Nobel Prize winner Tasuku Honjo, Nobel Prize winner in physiology or medicine in 2018, who reportedly had said that the pandemic coronavirus is not natural and was produced in China. The following quote was attributed to the Nobel Prize winner: "I worked in Wuhan's laboratory in China for four years and I know all the staff of this laboratory. I called them following the outbreak of the Corona epidemic, but unfortunately all their phones have been out of action of three months and the workers are probably already dead. Based on my scientific knowledge and countless researches to date, I can say with 100% certainty that the coronavirus is not natural and doesn't come from bats, China has created it. "The cyberspace has been awash with messages in several languages and featured on a number of popular internet sites, including those located in Poland. A low key internet statement was made on April 27, 2020 by Tasuku Honjo, as follows: "In the face of pain, economic losses and unprecedented global suffering caused by the COVID-19 pandemic, I am very saddened that my name and the University of Kyoto were used to spread false accusations and misinformation". It is also not true that Dr. Honjo worked for 4 years in a laboratory in Wuhan and maintained contact with employees there. In the weeks following the internet statement, Dr Honjo consistently repeated it which set him in opposition to the statements of the UK Prime Minister and President Trump. They spoke in general terms using sources reportedly knowledgeable about China's artificial creation of the virus and its deliberate strategy of disinformation conducted they said with the connivance of the World Health Organization. This was aimed to concentrate in the public's mind how the impact of the pandemic would affect the population and economy of the USA and President Donald Trump following through, announced at a press conference on 30/04/2020 that he was convinced that coronavirus could be from the laboratory of the Institute of Virology in China's Wuhan city. He did not rule out taking action against the "criminal" actions of China which he also accused of delay in notifying the world about the viral outbreak. When asked the question as to whether he had convincing evidence that justified his conclusion the virus came from the Institute of Virology in Wuhan, he replied he had a "high degree of belief" and later "Yes, I saw it" (presumably the evidence). Daily press releases of US

Secretary of State Mike Pompeo have repeated these feelings and have repeatedly stated that there is evidence that coronavirus is an artificial product and has escaped from the Wuhan laboratory, but has not disclosed this evidence publicly. The information authorized by the US authorities was published by Fox News, which cited numerous own sources obtained from intelligence sources. One such news propaganda publicized the World Military Sport Games, which took place in Wuhan on October 18-27, 2019. Teams from 109 countries participated, including a large American team, which was supposed to be an opportunity for the Chinese to intentionally engage the participants. and spread of the coronavirus pandemic. As reported by American television, the Middle Kingdom wanted to prove that it has the potential to fight biological weapons at least on a par with the US. China did not lag behind in the media war by implementing a propaganda counterattack and creating an avalanche of official denials, and created a version for local distribution analogous to the American version, which claimed that it was the US military that brought the virus with them when they visited the Games and led to the initiation of Wuhan epidemic COVID 19 and it was the American side who were responsible for launching the epidemic, which will soon become a pandemic.

The average citizen, happy to read only newspaper headlines, is not inclined to critical analysis and excites him to plunge into false message baskets for information. He is not prepared to disturb his peace of mind and returns as a reflex to the more comforting conclusion that it was the cunning Chinese who started the crisis and the US is still a city on the hill.

Conclusions

Discussing the tactics of the fight against COVID 19 is in fact a conversation about the situation of man in the 21st century and the challenges that face him. This is illustrated by the current preoccupation of world governments and organisations such as the WHO. Just recently a virtual Health Forum was organized by the World Government Summit to discuss the world's response to COVID-19 and in the introductory speech of the WHO director-general Tedros Adhanom Ghebreyesus some crucially significant remarks were made. "We know that the pandemic is much more than a health crisis, it is an economic crisis, a social crisis, and in many countries a political crisis. Its effects will be felt for decades to come", "The global coronavirus pandemic has been exacerbated by politicization" [28-31]. The six-month fight against the pandemic clearly shows that the main task in the fight against the COVID 19 pandemic are actions aimed at influencing human behaviour with significant consequences for our civilization, if we do not consistently do so, we will lose in the fight against the COVID 19 pandemic. Many hitherto uncontrolled, unregulated spheres of local, national and indeed global activities of homo sapiens must be coordinated and controlled as we seek a path in that turbulent strait between the Scylla of bankrupt liberalism and Charybda's authoritarianism. Significant areas of economics, politics, beliefs and the lifestyles and behaviour must undergo radical change, there is no choice![32] But listening to this litany of necessary changes due to the coronavirus, a question comes to mind a question comes to mind-why is the conversation dominated by virologists and why are they setting the recovery agenda? The answer lies in the magnitude of the recovery task and the failure

to understand the complexity and aetiology of the crisis. The virus has mutated from being a biological phenomenon to become the major a determinant of the new civilisational era. It has crossed the Rubicon of a biological boundary confined to health effects on individuals., it has become the disease which penetrates to all corners of the body politic, wreaking havoc and forcing societies to critically look at how best to respond to what is in effect a potentially mortal sickness within our civilisation.

Any effective strategy for a new era must focus on objectives which require a root and branch reform of how we have lived (abusively) on this planet and develop creative solutions dealing with our new reality. Slogans are useful in creating a consciousness amongst people and in starting the political discourse necessary, so the following might be considered: Quality not Quantity – this is not just an empty chant, reflecting on it will indicate that sustainable development is a key objective and it is only when the quality of life for all is achieved will development be sustainable. This of course demands an interrogation of what is meant by a good quality of life it does not include further ravishing of the planets resources to fund our profligate western lifestyles. Funding for sustainable development initiatives must come from funds hitherto used to purchase ever more expensive and destructive armaments, which far from protecting us, drift us all towards military and economic armageddon. It hardly makes sense to invest in mutual killing when the threat of a common extinction looms ever nearer.

And yet, even if the sustainable development measures are now implemented we may be too late. Nature has already entered the reset phase (as mentioned earlier) which involves a dramatic change achieved through self-liquidation of almost all it area to settle on a very low level of global functionality, a state in which it can muster sufficient energy to enter a restoration phase. Man of course is also subjected to the rationalisation or elimination mechanisms which is natures prerogative, but can take refuge in strategies he has designed to optimise the chances of survival. This means engaging in a process of gradual cyborgization and cocoonization and other actions for the survival of our common Ark and includes protecting genetic banks and securing the spore reserves of the disappearing biocenosis. The intention of my publication is not to proclaim already revealed truths, but to stimulate a substantive, critical, constructive conversation about a pandemic and suggest directions for the further development and indeed survival of our civilization. I am far from closing the book of the human species, yes, we humans have gone too far, we have caused much chaos, but perhaps we can correct our actions and still secure a shelter in the brave new world already upon us.

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