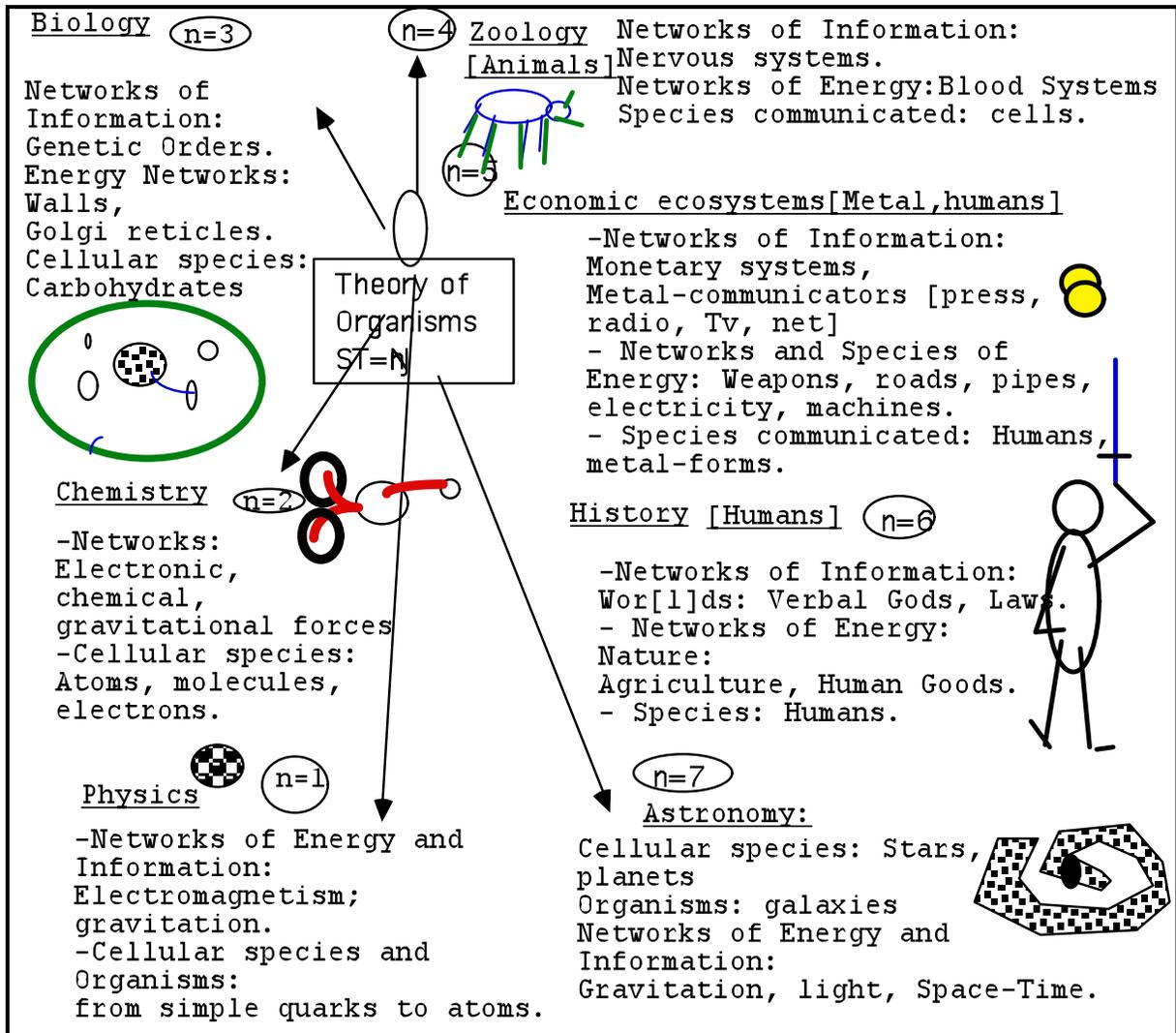


THE EVOLUTION OF THE FINANCIAL-MILITARY-INDUSTRIAL SYSTEM

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The main systems and superorganisms of the Universe.



All Sciences share the laws of duality, systems and organicism. Since the properties of energy and information remain invariant in all the scales of reality. The result is the fractal structure of the Universe, a super-organisms made of smaller super-organisms, described in the graph: Each science studies a 'scale of organic size', its cellular species of energy and information and its arrows of future time (energetic, informative and reproductive events, which culminate in the self-organization of those parts into social wholes, units of a new scale). In this paper we study the creation and evolution of the

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economic super-organism ruled by an informative language – money – and composed of metal memes, energetic weapons and organic machines, which interact with the human super-organism, history, made of human cells, verbal languages and natural energy.

We define a simplex system as a network of self-similar ‘cells’ of energy or information.

We define a complementary system as a dual network of energy and information that interact together. In Nature, by definition, all systems are complementary systems (Complementary principle of physics: all physical entities have a field of energy or force and a particle of information, mass or charge; Duality Principle of Biology: multicellular systems have an informative head and an energetic body, cellular systems have a DNA-informative nucleus and a cytoplasmic body).

Finally, we define a complex system as a complementary system, which adds a 3rd, reproductive network, either internal or external to the entity (enzymatic reproduction).

Thus all systems are networks of self-similar cells joined by flows of energy and information, and complex systems are those who add a reproductive network.

All entities are 'cellular societies' organized through energy and information networks that bring about processes of social evolution of parts into wholes. In all species studied by science a common phenomenon occurs: the existence of parallel groups of self-similar beings organized into a single social form. Molecules are made up of atoms and electronic networks; economies are made up of human workers and consumers that reproduce and test machines, guided by financial networks of information (salaries, prices, costs); galaxies are composed of stars, which orbit rhythmically around a central knot, or black hole of gravitational information. Human bodies are organized by cells controlled by the nervous, informative system. A tree is a group of leaves, branches and roots connected by a network of energy (salvia) and information (chemical particles). Cultures are made of humans related by verbal, informative laws and economic networks that provide their energy. Sciences study those organic systems, tied up by networks of energy and information. In the graph, we see the main scales of systems studied by human sciences; its social cell of energy and information and the reproductive networks that create them. Thus, there are 4 basic elements in all organic systems:

1. Cellular units.
2. Networks of energy or vital space.
3. Networks of fractal information.
4. Networks that reproduce energy and information.

All entities are made of energy and informative ‘cells’ organized through networks, in complementary systems. Yet, since each cellular unit is a whole made of smaller n-1 cells, we can define any organic system as a super-organism (made of smaller, self-similar super-organisms):

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‘A super-organism is a group of cellular super-organisms joined by energetic, informative and reproductive networks.’

Thus we unify the properties of Universal Systems and the sciences that study them under a single template definition, according to which simple systems and complex organisms will differ only in the degree of ‘completeness’ of its networks and the specific energy or information they are made of:

- An atomic organism is a population of (electronic) energy and (nucleonic) information, related by networks of (gravitational) information and (light) energy.

- A molecular organism is a population of atoms, related by networks of gravitational energy and networks of electromagnetic information (orbitals, London, Waals forces).

- A cellular organism is a population of molecules, related by energetic networks (cytoplasm, membranes, Golgi reticules) and genetic information (DNA-RNA.)

- A human organism is a population of DNA cells, related by networks of genetic, hormonal and nervous information and energy networks (digestive and blood systems).

- An animal ecosystem is a population of different carbon-life species, related by networks of light information and life energy (plants, prey).

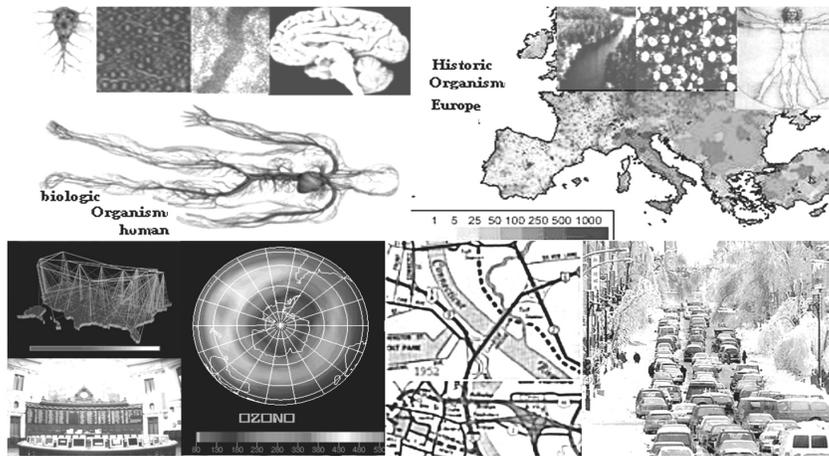
- A historic organism or civilization is a population of humans, related by networks of verbal information and networks of carbon-life energy.

- The Economy or Financial-Military-Industrial System is a complex system of memes of informative metal (money), energetic metal (weapons) and organic metal (machines) reproduced by human workers and vitalized by consumers, related to them through networks of digital information (money, audiovisual information, science) and energetic networks (roads, electric networks, etc.).

Thus, there are two complex systems on Earth: one based in human life, called ‘history’ and one on metal, the FMI complex. And there are relationships of symbiosis, predation and competence between those historic social systems (governments, cultures and human beings) and the economic ones (financial markets and company-mothers of machines & weapons), which is the system we shall study in this paper.

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The 2 superorganisms of planet Earth.



On planet Earth, a first superorganism of human cells, a collective, global mind/culture, which lived on Gaia, the natural Earth, appeared on the Neolithic. But with the arrival of metals, a more complex superorganism in which men became symbiotic to metal systems of energy (weapons), information (money) and reproduction (company-mothers of machines) substituted the initial, sustainable, life-based historic superorganism. It is the Financial- Military-Industrial Complex that today has become global and it is terraforming the Earth from a world of life into a world of metal at an accelerated path, signalled by a cycle of evolution of money, weapons and machines with a periodicity of 800-80 years.

The most complex super-organism known to man is our own super-organism, history, the existence of humanity from its first to its last cellular species. Humanity in space and History in time have evolved through the same ages and scales of social evolution we have described in our General Systems Theory based in Duality¹:

All those systems evolve in 3 ages in which first the energetic network is dominant (Age of Weapons in the FMI complex, Palaeolithic in History); then the informative network/species dominate (Age of money in the FMI complex, Age of Words and Religions in History) till both interact to create organic, reproductive systems (Age of company-mothers of machines in the FMI complex, national age in history).

Finally all the networks and 'cells' of the system (metal-memes in the FMI complex) come together into a single superorganism, 'transcending' from the individual cells (humans in history; metal-memes in the economy) into a whole, communicated by a common language of information – words that create human cultures, money that creates the FMI complex. And so the study of the History of Mankind and the Economy and its memes of metal is essentially the study of the evolution of 2 different super-organisms, once we translate the jargons of Religions, Cultures, Civilizations and Economic ecosystems to the language of General Systems Theory.

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The FMI complex differs from Historic superorganisms because both systems use different languages of information (civilizations use verbal or ethic laws while economic ecosystems use digital prices) and cater to 2 different species: History evolves carbon life species (Nature and human beings) and the FMI complex evolves memes of metal (machines, money and weapons).

Thus, we human beings are reproducing on Earth 2 types of super-organisms:

-Human superorganisms created with words – cultures, religions, civilizations and nations. Historic super-organisms are based in the ethics of love – the capacity to share energy and information among human cells - appeared in the Neolithic, when humans in harmony with Nature, created a global culture, over the body of Gaia, its life energy. They matured in the age of Love Religions (Buddhism, Christianity & Islam), and evolved further with the development of social sciences and socialist ideals. Today those ideals are embedded in the ideals of institutions such as the UNO, EU social-democratic parties and ecological causes.

- But with the discovery of metals, informative gold and energetic weapons, a parallel superorganism appeared, in which humans became submissive to new memes of metal and those tribes that carried them, which we shall call ‘animetal=animal+metal’ cultures. It is the Financial-Military-Industrial Complex, which ever since dominated the super-organisms of history (cultures), establishing an upper caste of warriors, bankers and scientists, who controlled the religious and verbal super-organisms of history with money, weapons and machines.

The FMI complex, an evolving system of metal.

Let us then consider a scientific, objective, biological analysis of the future of the Earth, in which human superorganisms (cultures) and the FMI complex co-exist based in the laws of General Systems¹. Those laws define the world we live in as a game of 2 species:

- Humans and life species made of simpler life atoms - Hydrogen, Oxygen, Nitrogen and Carbon, which have the lower 1, 8, 7 and 6 numbers of the atomic table and make up for over 95% of our body.

-Machines that perform the same biological functions our organs do, with atoms of higher force and information than our atoms (24-Iron, 79-Gold, etc.). Since a machine is an organic system that imitates an energetic or informative organ with atoms of metal.

Gold & iron are the most perfect informative & energetic atoms: Metal atoms display energy/informative properties that enhance those of simpler life atoms. Iron is in fact the center of our blood/energy system, commanding thousands of lesser carbohydrate compounds in a molecule of haemoglobin; while gold is the most in/form/ative, perfect atom of metal with an enormous capacity to replicate and store form, synonymous in duality of information. Thus, humans used those atoms of metal to enhance their energetic and informative qualities. Iron became the king metal in the construction of weapons and machines, which contrary to belief also have negative effects of mankind.

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Since machines enhance our energy and informative organs, but in the process as it happens with biological enzymes, with an atom of metal and an underdeveloped string of carbon-hydrates, they atrophy us. For example, a crane imitates an arm and substitutes an arm, moving things around, but we become weaker. All machines imitate human, organic functions and tasks performed with human organs. If we divide the human being in two clear components, body and head, we talk of two types of machines, body-machines that imitate and substitute functions of our body organs and mental machines that imitate functions of our brains and senses; which fusion in 'organic species', robots that imitate animal species. Thus, the Industrial Revolution is the process of organic evolution of the most complex atoms of the Elements' Table – metals, whose evolutionary cycles follow the same ages of evolution of life species.

Thus we consider the existence of 3 cellular memetic units in the FMI system:

Max. Information: Soft metals; Silver, Go(l)d: The most informative atoms of the Universe imitate the light of the sun and the moon, which feeds the eye. Thus, they hypnotize our visual center of consciousness, making us slaves of men who carry them.

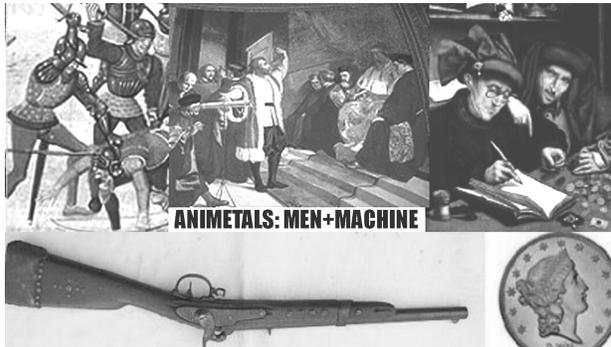
Max Energy: Hard metals; Bronze, Iron; weapons: Iron is the most energetic atom that cuts our flesh and makes the warrior who carries it, a top predator of mankind.

Energy↔Information: Organic machines: They transform energy into information (informative machines) or information into energy (transport machines and machines-weapons); and are reproduced by complex organisms, called corporations; though its proper biological name should be 'company-mothers'. They imitate, substitute and enhance our energetic and informative capacities, making the scientist the 'high priest of knowledge' of modern cultures.

Why men evolve those memes of metal requires to consider another type of memes: ideologies that justified the use of metal and the power it gave to those 'animetal= animal+metal' cultures that worshipped it and used to dominate mankind.

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Metal memes evolve in symbiosis with man.



Animetal cultures that profit most from the evolution and reproduction of the memes of metal have created 3 ideologies that worship those memes without any criticism of its lethal consequences for life: mechanism, the philosophy of technological science; nationalism, the philosophy of the military and capitalism, the philosophy of the banker. They convert man in a 'slave' of the evolution of the FMI complex, which preys on the rest of mankind and Gaia.

The reproduction and evolution of the metal-memes of the FMI complex has been fostered by 3 'animetal' ideologies of metal that imposed its use to all human beings:

- Military Nationalism, the belief that the human species is not one, but must be divided in tribal groups, which must use, reproduce and evolve weapons to fight among them, as opposed to humanism, which believes we are all members of the same species that must evolve together, as the collective brain of this planet.
- Financial Capitalism, the belief that money, the language that reproduces machines and converts humans into objects with a price⁶, is a better language to guide mankind than legal words that make humans the center of creation; as opposed to socialism, the belief that humans and its elected governments, must control money - the language of cre(dit)ation of the FMI system - to create a sustainable world and produce the goods that are positive for mankind.
- Industrial Mechanism, the belief that the Universe is made to the image and likeness of machines, and so we must evolve them to understand the Universe, as opposed to organicism, the belief that the Universe and all its parts are complementary, organic systems - and so man, one of the most complex organisms of the Universe, must be cherished and defended.

Thus, we talk of another memetic system, symbiotic to the FMI external metal-memetic system, the Capitalist-Nationalist- Mechanist culture that sacrifices the syntactic values of the word that make us the center of the Universe, [Man (subject) > Verb (action) > Object (energy)] for the syntactic values of money, Man=Price=Object,² which equal us to objects as beings with a price.

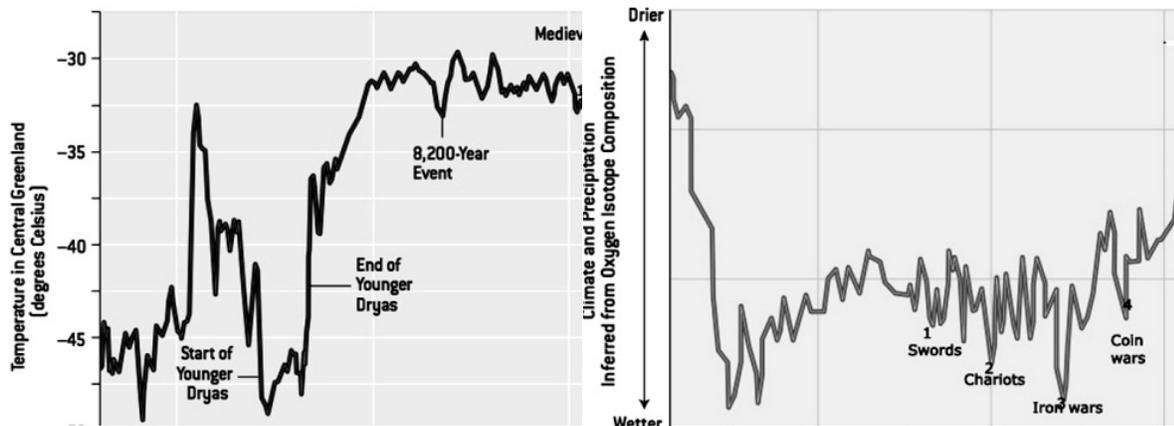
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Capitalism makes man slave of money while nationalism makes man slave of weapons and mechanism makes man slave of machines; and those 3 memes become the goal of progress that man evolves under the CNM complex. Unfortunately the evolution of the Financial-Military-Industrial Complex is guided by those 3 systems of ‘ideological memes’ imprinted in the human mind as dogmatic beliefs through audiovisual and educational systems that tell us mankind must sacrifice his own goals and future for the FMI complex. They prevent a scientific, rational control of the FMI system for the profit of our species; since they have substituted the 3 ideologies that could evolve the superorganism of history by controlling the FMI complex for the benefit of man and pruning its ‘lethal goods’:

- Humanism, (all nations belong to the human species and should not fight each other with weapons); Socialism (money must be controlled by the ethic values of verbal thought and reproduced by the governments freely elected by the people to foster the reproduction of goods needed by humans and a sustainable planet made to our likeness) and Organicism (the Universe is not a machine, just a simple organism, and so we must use organic and systemic laws to create healthy social organisms, with man on top).

Today the humanist memes that could create a sustainable world for life are extinct, as all humans believe in mechanism, nationalism and capitalism, the 3 ideologies that are extinguishing life, as we enter into the last age of evolution of the FMI complex.

800 years cycle of wars and extinction of cultures.



In the graph, the ages of global war coincide with the rhythms of evolution and reproduction of new weapons and nomadic war tribes, enhanced by the climatic changes on Earth: there is every ± 800 years a pronounced age of wet and hot weather, which multiplies the numbers of steppe warriors, the top predator species of the FMI complex, starting nomadic waves of invaders, which use the new weapon of the 800 years cycle to invade and destroy all fertile agriculturalists civilizations of Eurasia. The peak of those dual events happened during the iron wars, the hottest, wettest period of the last 10 thousand years, which meant the end of the Neolithic and the expansion of iron weapons and warrior memes in all the regions of the Eurasian and African continent.

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Because time is cyclical, a science of history and economics must be able to tabulate the future as all sciences do by finding cyclical patterns that will repeat in the future³. So we have to ask ourselves: what cycles repeat in History? The most obvious cycle we observe in any species is that of life and death, of creation, reproduction and extinction. But since we do not study individual human beings (biological subjects) but cultures (historic subjects) and memes of metal, the cycles we must observe are the cycles of life & death of civilizations, its machines & weapons.

In the graph, the FMI complex has evolved in two ages:

- The Age of Empires in which only complementary energetic-weapon and informative-money systems were in place, when 70% of the monetary economy was dedicated to reproduce weapons and pay mercenary armies ('pecunia bellum nervi')⁴. Since by the laws of affinity⁵ metal-information gave maximal value to metal-energy (weapons are the most expensive goods of the economy) and minimal value to the 'rival species' (human information or words and human energy or life)². During this age, the white visual man⁶, hypnotized by the beauty and glare of metal, created religions of money (Go(l)d churches) and weapons (inquisitions) that corrupted the messages of social love and justified racial differentiation between the castes of metal masters and the rest of mankind. Then, those metal masters made of the reproduction of weapons and money their only goal and carried through a series of 800 years cycles of evolution of metal and extinction of Neolithic cultures, the 'colonization' of the world with their memes of metal.

The age of empires shows a cycle of life and death of civilizations of ± 800 years for all the cultures of the Old World, related to the discovery and massive reproduction of new weapons, due to the professional development of machines and its top predator version, weapons. We call those ages of massive reproduction of weapons, a "war radiation", borrowing the concept from biology, since biological radiations of top predator species are the main cause of extinction of weaker species. So happens with "radiations" of top predator metal weapons that cause the extinction of humans and our civilizations in global ages of war. In the graph, cultures die rhythmically every 800 years, when the massive reproduction of weapons (and in the last cycles money to finance wars), in an age of expansion of nomadic warrior populations, provokes an age of destruction and substitution of the elites on top of those cultures: They are the cycles of bronze wars (± 3000 B.C.), chariot wars (± 2000 B.C.), iron wars (± 1200 B.C.), coin wars (± 400 B.C.), stirrup wars (± 400 A.D.), gunpowder wars (± 1200 A.D.), and digital weapons (Nuclear Bombs and robots, ± 2000 A.D.) The regularity of those cycles is not forced and can be related to the evolution of weapons and the weather cycles that multiply migrations of nomadic hordes of Indo-European warriors that descended on the agricultural, fertile regions of those tempered zones. Those cultures that were immortal before the discovery of hard metal, die now rhythmically every ± 800 years. For example, Rome, the paradigm of mercenary empires, constructed with the arrival of coins, which established the reign of the financial-military system on top of human societies ever since, lasted 797 years between the Fall of Rome to the Iron Gauls and the Fall of Rome to stirrup barbarians.

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- The age of machines and nations, when the creation of a 3rd network of organic machines and its reproductive company-mothers completes the super-organisms and accelerates to 80 years its evolutionary cycles. Let us briefly consider this age.

Machines accelerate and complete the evolution cycle FMI system⁷.

During the gunpowder age, the evolution of metal memes accelerates ‘professionally’ to a mere 80±8 years thanks to the discovery of the science of measure, and a new re-productive organization, company-mothers that reproduce guns, boats⁸ and then machines: Every 80 years - a human generation - a European nation on top of the evolution of those weapons and machines, becomes the top predator culture of the world. It has the best memes of metal, weapons, money and machines. So it will try to conquer the world and establish its civilization, its weapons and its currency, used to reproduce them, as the memes of a global empire, but none will succeed, because what truly evolves are the memes of metal, not humanity, whose tribes always consider their culture self-similar to all other cultures, the righteous one, dismissing all non-technological cultures as primitive, trying to extinguish them.

First Venice, Genoa and Firenze, city-states, carry Italy to the top of the world in 3 cycles that start with the invention of the first gunboat, the ‘Lombarda’ and its use in the ‘Sacco di Constantinopoli’ (1208) that makes Venice, its money and boats the top predator nation. Then in the Battle of Chioggia, 1284, Genoa takes the top spot; finally Firenze, in the XIV century displaces Genoa as the site of Papal Bankers – the Medici. Since money is indeed ‘the nervous/informative system of war’⁴ that re=produces its weapon-machines.

Then the improvements on gunboats (caravels) and the gold of Ghana put Portugal on top (1440s-1520s). The 80 series continues with Spanish muskets (1525, fall of Mexico till 1604, when the invention of the first stock-company of paper-money in Holland, is soon followed by the crash of the bullion and the defeat of Spain). Holland creates the modern world: the first company-mother of gunboats; the stock-market that will become the global brain of the metal-earth; free market democracies, in which the ‘free citizens’ of the markets, corporations, control political parties (Orange parties) and only the wealthy can vote; and a mass-media system of industrial information (the press), which will imprint ‘daily’ the memes of metal in the human collective. Its kingdom lasts from 1604-1688, when French’s artillery destroys Amsterdam and the king migrates to England with stockholders and bankers, founding the same system in a bigger nation. Soon France (1688, 1760s) is defeated by Great Britain, loses India and Canada and her Companies and money crash while the country enters in Revolution. It is the age of Britain, which ushers the world in the age of ‘machines’ that can also be used for peaceful, consumption purposes, unlike weapons that consume us (1770s discovery of the steam machine). Reason why corporations and the parties they ‘own’ divide in 2: the party of war (Tories, GOP in US) and the party of peace (Whigs, Democrats) that foster alternately the use of peaceful consumption of machines and its use as weapons. But the parties that back the memes of humanity, socialism, humanism and organicism are repressed (socialist parties) and only achieve power in brief periods, in which they are unable to reign over the evolution of the FMI complex.

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From such perspective, it is evident that machines evolve as organic systems both as weapons, provoking periods of war and as consumption machines, and that duality creates an 80 years cycle of peace and world war ages ruled by 'animetal' nations:

- Max. Energy: Bodies: In the XIX C., we evolved bodies of iron (trains, steamers, cars) that fed on steam and oil, using a biological resemblance, and worked as our bodies do, moving us or loading products. This phase is divided in 2 cycles:

-The age of England (1784-1857) or age of trains and steamers that substituted and provoked the extinction of 90% of horses, the previous biological carriers. When the use of peaceful trains saturates the market, there is an economic crash (1857) and armoured trains are used to conquer the 3rd world (colonial age).

- The age of Germany (1857-1929), in which Germans evolved the internal engines/hearts of machines (chemical, oil engines - Otto, Diesel - and electric engines - Siemens). All those systems are also applied to the colonial wars in which armored trains and boats conquered the world for the FMI complex and its ideological nations. And when the III world is conquered, those weapons are turned against the 'poor', 'unarmed' people of those cultures (I and II world war).

- Max. Information: Heads. In the XX C., we made devices with informative support of silver and gold that act like heads of machines: cameras that are metal-eyes, computers, which are metal-brains and telephones that are, as their name indicates, long-distance voice-ear systems of metal. It is the electronic cycle (1920s-2010s), guided by America, even though the discovery of those metal-head parts took place at the end of the German cycle in Europe. Yet when the market saturates, there is an economic crash (2008) and Pcs and robots become big brother networks of social control and predators, kicking off the evolution of an industry that could exterminate life in the future – the robotic weapon.

- E=I: Now in the XXI C. the III Industrial R=evolution begins, when we join bodies and minds of machines into robots and create both, internal networks of autonomous control and solar 'surfaces' of autonomous energy. Yet all machines are also evolved into as 'weapons', so we live now an age of robotic weapons, which signals the end of the electronic cycle and the beginning of the Singularity age when machines will become organic, autonomous robots and compete directly with man in labor and war fields.

Thus the complementarity between weapons and money causes all those 80-80 years cycles of destruction of civilizations and nations: a new weapon and form of money is reproduced in increasing numbers till at the end of the cycle the excess of money pays a massive radiation of biological weapons that start a global age of war, which destroys the civilization⁷. And this pattern of predation of the FMI system over the Human system has not changed with the arrival of machines, 'the good fruits of the tree of science'; since the best, more evolved and expensive machines are also weapons and so the cycle of peace and war now between nations that evolve machines and its equivalent top predator weapons continue.

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The singularity Age: The age of Robots.

The 3rd Industrial Revolution should not happen. The evolution of robots, the species that will displace humanity as the top predator of this planet, should be aborted, or else it will cause the obsolescence of human workers, consumers and soldiers and mankind as the dominant species on Earth, as it happened with animals displaced by human beings.

According to the 80 years cycle, we live the last cycle of evolution of machines and extinction of life, the age of Robots. They will be the engine of a new industrial take-off, relatively independent of man. Since men no longer will be the consumers of industrial goods, but each robot will consume 2 camera-eyes, several chips-brains, mobile phones and a complex metal body, creating 'economical wealth' for robots not for humans.

Further on, as they evolve they are making humans obsolete as workers (substituted by robots in automated factories) and consumers (substituted by robots that will use other machines), the two main economic roles a 'Free Market', where corporations are free to evolve and reproduce any machine and substitute labor for them, now concedes to man.

In other words, humans are being displaced from the FMI system as workers, consumers and users of money - except the reduced group of owners of corporations and scientists that evolve those machines - because its triad of ideologies - military nationalism, financial capitalism and industrial mechanism - considers the evolution and reproduction of machines, the supreme goal of humanity, called 'progress'.

Yet for humanity to understand this process, it would have to abandon the Capitalist-Mechanist-Nationalist ideologies that worship metal and study scientifically and objectively the relationships between history and the FMI complex, instead of considering the FMI complex 'our creation', which 'we control' only for the benefit of the humankind. This is not truth. As in all relationships between two complex systems, the relationships between humans and metal in its 3 species are both predatory and symbiotic, but metal obtains from us far more than we obtain from it - we evolve and reproduce metal, while metal as in the parable of the tree of science, sometimes improves our life sometimes destroys it.

Yet the bottom line of the relationship between the FMI complex, its corporations, machines, weapons and money and the Human superorganism of history, its governments, human beings and verbal, ethical values is this:

Within the CNM ideologies of the FMI complex, classic economics is the key capitalist ideology that strives to multiply and evolve money through the activity of financial, military and industrial corporations. Classic Economics is not a science of control of the FMI complex for the benefit of man, but the science of development and evolution of the FMI complex, regardless of its collateral effects to man and the planet. Its creators are the small 1% caste that in all organic systems correspond to the 'weight' of the informative network (for example, it is the percentage of weight of neuronal brains in organisms.) This elite of proprietors or 'stock-rats' are the owners of the FMI complex worldwide and

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the only people that truly profits from the evolution and expansion of the FMI complex, over the previous Complex systems of nature (Gaia) and Mankind (History).

Economists cater to the owners of those corporations, whose aim is to reproduce, evolve and sell machines and adapt the planet to their image and likeness, with the help of governments which share the same ideology. So economists are merely interested in multiplying the profits of corporations, achieved by multiplying its machines. The result is a constant increase of their productivity= $\text{capital} / \text{labor}$, which diminishes the quantity of human workers and increases its machine workers.

And the logic end of that evolution and obsolescence of human workers/soldiers is the terraforming of the Earth - the extinction of life and its substitution by the metal-earth, a new world where man and its organizations and systems (our governments and cultures) will be increasingly obsolescent, substituted by robots, the new workers, stock-market corporations, the new governments, and digital money, the new language of values, till we become extinct.

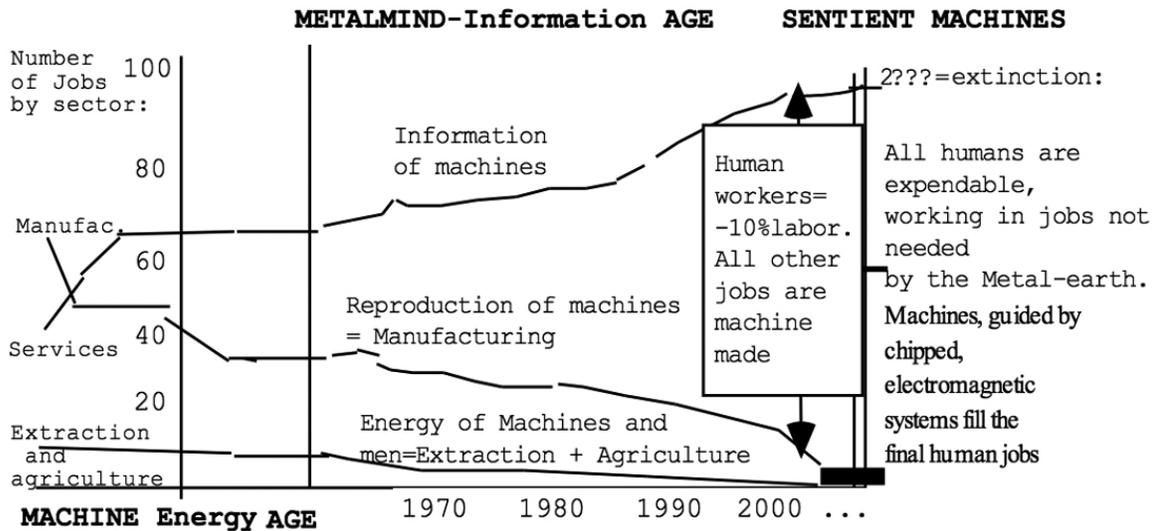
As long as corporations are free to re=produce, evolve machines and design a world to its image and likeness, the FMI complex will follow the laws of evolution of General Systems, and displace mankind and its super-organisms from the top predator position of this planet. This is what is happening now in the III industrial r=evolution of robots: corporations will substitute human workers for machines, increase their profits and the GDP of nations, consumed by other machines and corporations, while the bulk of human beings will become poorer, displaced from the economy, maintained at survival levels.

And this will be unavoidable unless the FMI system is nationalized, controlled by human governments to select its machines according to the needs of Humanity.

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PCs and Robots: Labor obsolescence. Productivity. The Smith-Marx prophecy.

Phases of labor extinction: Energy and informative jobs.



Machines substitute humanity as they evolve in two environments: in fields of war and as machine-tools, eliminating human workers. In the I and II cycle of the Industrial Evolution bodies and minds of machines substituted blue and white collar workers. In the III Cycle, robots will substitute most human labor, automating the reproduction of machines by company-mothers. It is the III Cycle of unemployment, we live today. In the graph a car assembly line in the 1930s and today. Both, human energy and brain workers are replaced by robots and computers. As the IV cycle of the Industrial Evolution advances, chips' software and robots will make most human workers obsolete.

The graph shows 3 phases of labor obsolescence and substitution of humans by machines that coincide with the three phases of the industrial revolution:

-The 1st phase of body-machine creation massively substituted workers in agriculture (the systems of energy that sustain man). Those farmers became then workers for the energy systems of machines, during the XIX century. Yet at the beginning of the XX C. companies discovered most of the energy-machines needed for their own self-reproduction. They displaced those energy workers. So all those workers were out of work (29 crisis); and in a few years they were consumed in wars, competing with weapons that killed them.

The 2nd phase of the Industrial Evolution that reproduces chips in control of complex machines is expelling mind-workers everywhere, except in those nations dedicated to reproduce Metal-minds (American, Japanese workers).

The 3rd age starts now with the Robotic r=evolution that makes the entire human race potentially obsolete. Fewer men are needed to reproduce machines. Will a war cause the extinction of those workers in the nearby future, as it happened to the energy workers at the beginning of the century? We are manufacturing that war as we speak, evolving the weapons of the age of the Singularity and using robots to kill Neolithic farmers.

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The present crisis of unemployment won't go away because the corporation has found the substitute of human beings and it is in the process of substituting all workers and make its factories automated. Men are informative species, who control the world through information. The chip is the rival of the human mind. The most complex machine substitutes the brain, our more complex organ. It does so, first as an intelligent machine (Pcs that act as white collar workers), then in its 3rd age, as a robot or blue collar worker. It is then obvious that as chips multiply, humans will become displaced from new work positions. In that sense the 'radiation of chips' means also a biological fight for labor within the economic ecosystem. Problem is that chips keep going down in costs and evolving in intelligence, integrating further with machines, so human labor becomes increasingly obsolete. Today robots substitute blue-collar workers, and Pcs white-collar workers, causing a massive wave of unemployment that now is invading America and Europe, as better machines come out of robotic factories... Only cheap Indian IT, human Pcs and cheap Chinese human robots can compete with the III Industrial R=evolution.

In the 80s chips started its integration with body-machines in working robots. Those first robots were huge, fixed machines. Thousands of robot-tools that made other machines took the place of human workers in car factories in the 80s and 90s. Since then the creation of machines is becoming automated, independent of mankind. Robots already dominate the production lines of cars and chip factories, the basic bodies and brains of all machines. For that reason unemployment increases faster, as factory-work is either made by robots or delocalized in Third World countries. In other words, China & India vs. Japan & Korea automated factories are the 2 models of future labor: miserable work conditions or no labor at all, as Japanese robots manufacture millions of Panasonic TVs with a single worker, while the rest of the world enters the unemployment queue. It is the future of the economy that nobody wants to recognize, because the religion of capitalism believes the economy is not about human welfare but corporative money; and so all is OK as long as companies' profits grow. So unemployment will keep growing, as it happened in the previous global recession, when new methods of electric control and automated assembly lines provoked the 29 crash of labor and consumption, solved with 50 million of unemployed, becoming soldiers and dying in World War II. Now we target with our drones in a neo-colonial age, the poor farmers of Afghanistan and cut the welfare state of the surplus of human workers in our I world while companies profits and productivity, defended by corrupted politicians and economists on the payroll of companies keep growing. Meanwhile robotic Engineers 'transfer' millions of years of evolutionary knowledge accumulated by human forms into robots, passing our evolutionary secrets to a potential future rival species. So there is only a solution to the existential crisis that mankind faces during the III Industrial R=evolution: The prohibition of robotics. Since:

'Humans must remain the top predator brain of Earth.'

Yet the natural law of Darwinian competence between species is denied by economists that support the evolution of machines. So our politicians do not understand the true laws of Darwinism, which confront human and mechanical species. Society thinks humans compete with humans, when in fact they compete with machines. As Carnegie put it: 'We hold supreme the law of competence in a Free market, since it helps to select the best race' (the best race of humans or machines, Mr. Carnegie?) The selection of the best race

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is monitored by the equation of Extinction of Labor, the equation of productivity that all company-mothers follow, as they fire workers, using more productive machines instead:

Productivity=Capital/Labor ->Max. Machines (capital) x Min. Labor= Max. Productivity

That is, companies improve productivity by firing workers and buying capital=machines to substitute them. So Productivity means in biological terms means the survival of the fittest: the extinction of human workers displaced by robotic machines.

In the economic ecosystem the fittest worker—not the human but the machine—survives. Further on, such competence constantly reduces the salary of humans, who either take the job, at any wage the company wants, or risk to see a computer or a robot in their place. Since robots need no health-care, work extra-hours for free and have minimal maintenance cost.

We can resume the biological relationships of reproduction, evolution and preying of machines on men, in a verbal-mathematical prophecy that includes the Economical laws of Smith & Marx, twisted by the reality of Darwinian evolution. Smith said that the growth of money (ΔMV in mathematical terms) and products (ΔT_p , mainly machines and weapons) is symbiotic and parallel. This has a biological, systemic explanation: The informative system of the FMI complex is in balance with the energetic system (weapons and machines): its body and brain evolve in parallel.

As your body and brain are symbiotic and maintain the same proportion in all human beings, so does money - the brain of the FMI system - and machines/weapons, the cells of its body. In other words, there is a parallel growth of money and machines. How this affects human beings? It was obvious to classic economists, from Ricardo to Marx that the growth of capital (ΔMV) and products (ΔT_p) extinguished labor, substituted by technological machines, bought with money. For classic economists, including Marx, this was good in the long term, since once all labor was substituted by machines, we could live in a paradise of workers without work, but with a salary to spend in slave machines. This could indeed happen if the financial system is nationalized and all nations agree to an equal public deficit of 30% of the GDP (to avoid currency speculation), used to pay every human being a minimal salary, which he will use in basic food, health-care, housing and other 'human goods' that have a high human labor. But for that to happen a r=evolution in our ideological memes of capitalism, substituted by humanism and socialism must take place. And yet, even in that case, we will become an obsolete, lazy species, atrophied in their minds and bodies, if we do not forbid the industry of robots, which will continue evolving and making the corporations of machines independent of man.

Thus, while a Darwinian theory agrees with the 'objective' analysis of both economists (machines and money reproduce together as Smith said; machines expel labor as Marx said, because they compete with us); yet evolutionary, systemic theory diverges in the final non-anthropomorphic outcome; since machines make the human species obsolete. The concept of a socialist paradise or a techno-Utopian future is an anthropomorphic myth, this time originated by Marx - since it fails to see any negative effects in machines.

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So we should write the consequences of those 2 findings of abstract economists in different, evolutionary terms:

‘The evolution of Capital & Machines ($\Delta MV = \Delta TP$) will expel all labor=humanity and Humanity will create Utopia (Marxist truth) or become extinct (Darwinian truth).’

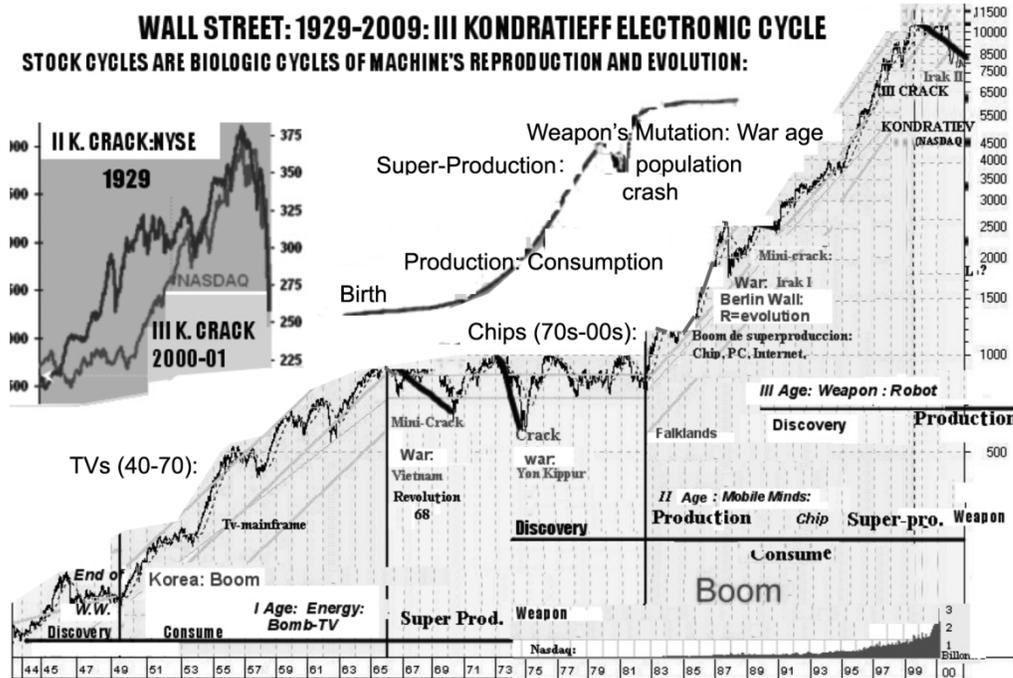
The previous sentence adds to the abstract findings of Marx, Ricardo, Smith the italic biological meaning of the monetary wealth of nations that economists fail to recognize: Mv is money and Tp represents the top predator, more expensive goods of an economy, (written Pt by economists), which are always weapons and then machines. And so the maximum growth of money and wealth occurs in war periods, when the entire economy is dedicated to produce the best machines, weapons, whose purpose is to kill man, creating a world of top predator metal machines. All this means that the evolution and reproduction of capital and machines preys on mankind. It does not create a life paradise, but a world of company-mothers that terraform the Earth for their machines and sometimes consume us in war and sometimes atrophy us, when we consume information and move through those machines. The logic outcome of such process is our extinction and substitution by the new super-race, the robot. The anthropomorphic fantasy is a world-paradise.

In XIX C., Marx believed in Utopia, because machines were too simple to think they would become self-reproductive, independent organisms. But today, when robots are about to cross the threshold of self-reproduction (reproductive Singularity) and acquire Artificial Intelligence (Informative Singularity) the end of history is crystal clear.

Obsolete workers never receive the paradise treatment. They become extinguished in wars, isolated in ghettos, sometimes of continental size (such as Africans, a farming culture, first used as a cargo or energy, an object of gunboat companies and plantations, today made obsolete by efficient engines.) Today chip-driven machines substitute human workers at body and mental level also in the 1st world and that is the real issue of the present economic crisis: Machines are increasing the ‘productivity’ of their companies with robots and software creating millions of 1st world obsolete workers – annihilating the middle class, and leaving only in top a thin layer of corporative owners, scientists that evolve machines, economists that work for corporations, and politicians and military that direct ‘nations’ in an absurd competence between members of the same species, fuelled by hate speeches delivered by audiovisual machines, which further divide humanity in front of a global FMI complex that acts as a single organism, with a single aim: to evolve, reproduce, consume==kill and substitute humans with those machines. Since the competence of robots happens not only in labor fields but also in war fields, since all machines can also be used as weapons; so when markets are saturated by machines, companies switch production to weapons and an age of machine-based wars starts in earnest. And to understand how this process happens at systemic level we have to study the financial system and ‘global brain’, the stock market and its cycles:

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The stock market and the wealth of nations peaks during war ages.



In the 3 technological cycles, NYSE's curve of machine's stock population follows the same chair-like curves of biological populations; since each machine is a biological organism that finds 'econiches' in war and labor fields, substituting and consuming its rival human beings, workers and soldiers or making our organs obsolete, when they are consumed by humans to enhance our energy/information skills.

In the graph, if we consider machines as collective species, analyzing their global population through the stock price of their company mothers, stock graphs become self-similar to the Volterra curves of re=production and extinction of any living species. Indeed, for companies a population of machines means an amount of sales and profits that determine their stock price. Thus:

Stock-prices=sale-profits=re-production of machines.

Thus, the biological stock-curves that show the reproduction and extinction of the top predator machines in each cycle of the industrial r=evolution are the curves of each industrial sector that aggregate the sales = profit curves of all producers, directly proportional to the population curve of each 'species' of machines. Further on, since each cycle of evolution of machines has a top machine that drags the rest of the economy, the global stock-market curve (in the graph, the electronic age of NYSE), is parallel to the phases of evolution and reproduction of those top machines (trains, cars, oil companies, Pcs, TVs, Robots, etc), parallel to the Volterra phases of re=production of any top predator.

The graph compares those phases for the 3 electronic machines, TVs, Pcs, and now robots that lead the electronic age and have driven with its associated industries, the growth

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and boom and bust cycles of the American Economy, since even mature industries like cars, trains and planes, have evolved through its chippization with electronic systems:

— For a long period the machine (or species) evolves slowly in the labs of companies or inventors. It is equivalent to the slow period of mutations that will bring a new species into being (allopatric evolution). Then, the machine matures and its costs of reproduction plummet. The machine now occupies an econiche in the human world, substituting a certain human organic function, and consumers multiply its sales exponentially. It is the takeoff of the machine. Since it starts from a very low population, prices now multiply very fast, so investors make the highest profits.

— Yet, sooner than later, given their exponential rhythm of production, far superior to the increase of human population, machines saturate the consumer market. Since symbiotic species depend on the population of the species they associate to those machines are organic enhancers of our energetic or informative power, the 'vital space' of machines is the total human population with resources to buy them. Thus, once the machine saturates the ecosystem of mankind, if re=production continues, profits and sales diminish and companies accumulate inventories. At that point their sales and stock market curves decline. Again in Nature, one species that has overpopulated its vital space, suffers a population crash, as it has also depleted its 'preys' and cannot longer feed itself. The population finally reaches a balance with their prey and it becomes stable. So happens with stock-market curves of machines that become flat.

- At this point in Nature a species cannot increase its population unless it mutates into a new, more efficient species that can feed on new preys. That is exactly what happens to the machine: After the overpopulation crisis, the machine mutates into a weapon and continues expanding its ecosystem, preying over human beings, no longer symbiotic to them. It is the third age or military age of the machine that is used now for war. So the trains of the Age of machine bodies become armored trains and colonialism becomes the ideology of the XIX c., the cars of the 29 crash become tanks and Hitler uses them to conquer Europe and the Pcs of the American age become predators in a new age of colonialism against the poor. Again what matters is not the 'memetic ideologies of the FMI complex' that convince a certain nation to use those weapons, but the fact that those wars keep evolving the FMI complex and destroying the world of Gaia and non-technological cultures. Unfortunately the same companies that make machines make weapons so their lobbies merely back military politicians and corrupted governments enter the game. Now the cycle of economic growth is based on Keynesian militarism: weapons are bought and death begins. Since weapons destroy themselves quickly in the battle front and must be renewed, the increasing demand of machines multiplies the benefits of companies. G.M. multiplied by 8 its profits, making tanks in W.W. II. So war becomes the economic engine of the last 36 year period, a Kondratieff cycle.

Modern wars are economic processes, embedded in the very same structure of 'monetary and machine reproduction'. The evolution of technology makes each new lethal machine much more efficient killing humans, there is also a progression in the number of casualties that each World War causes; which can be directly related to the growth of the stock-market that shows the price-quality of both, consumption machines and weapons;

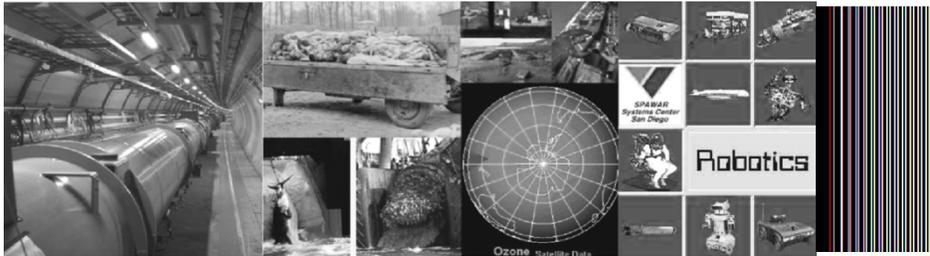
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since in war ages ALL the machines of the system are weapons and the market reaches its maximal value. Yet since weapons consume human beings there is a parallel progress on the value of stock markets that 100-fold each cycle of evolution of machines and the number of casualties in war that 100-fold each cycle.

The progression, as most evolutionary increases of power in the Universe, is decametric: in each new World War that happened at the end of each of the 3 phases of evolution of machines (bodies of machines ended with train wars in the 1860s, engines of machines, ended with II world war and the age of electronic weapons that now starts in earnest) 10^2 times as many people die than in the previous one: 600.000 died in the Railroad wars at the end of the I Industrial cycle. 60 million people died in W.W. II. In the final cycle of war, the Age of Robotic wars, the entire human population, might die.

How we can die in this III Industrial cycle of evolution of weapons, however differ greatly from previous wars, as Organic weapons will be 'self-reproductive' autonomous weapons. So they will not require human nations confronted in war to extinguish us, but merely its 'birth' as independent weapons that will reproduce and evolve without human interference. This means our extinction might be triggered by a single event/discovery of an ultimate weapon, able to extinguish life.

Death: the machines of the singularity.



3 are in fact the possible organic weapons of the Age of the singularity that can extinguish us: Quark Cannons, intelligent robots and self-replicant nano-bacteria. They are being evolved at different speed, and so we talk of 3 possible causes of life extinction

— A self-feeding bomb, researched by the Nuclear Industry at CERN. There a Super-collider might convert the Earth into a nova, making the planet into a quark star or black hole, when it goes online at full power in 2014. Indeed, the large hadron collider is the first quark factory built on earth. Quarks store 99% of our mass, and display the strong force 100 times more powerful than the electroweak force that joins together our matter. In the Universe quarks form ultra dense condensates that feed on matter and blow up stars, converting them into pulsars or black holes. So a single quark condensate could fall to the center of Earth and feed on our mass, till crunching the planet into a 15 kilometers rock of strange matter. CERN is thus the first event that can kill Earth within this decade and explain the Fermi paradox⁸: why there is no sign of A.I. or life intelligence in the cosmos. Do all planets die in a big bang, becoming black holes?

— A reproductive machine, (2020-2040), can extinguish life when the first

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self-reproductive nano-bacteria of metal are created. It is the ‘grey-goo’ scenario denounced by Bill Joy, the president of Sun Microsystems in Wired magazine⁹: Metal nano-bacteria will replicate exponentially, feeding on metal and within 3 months they will poison the planet and destroy all forms of life; since, given their smallness, hardness and the hyper-abundance of metal-structures in this planet, there will be no counter-weapon to prevent its exponential reproduction.

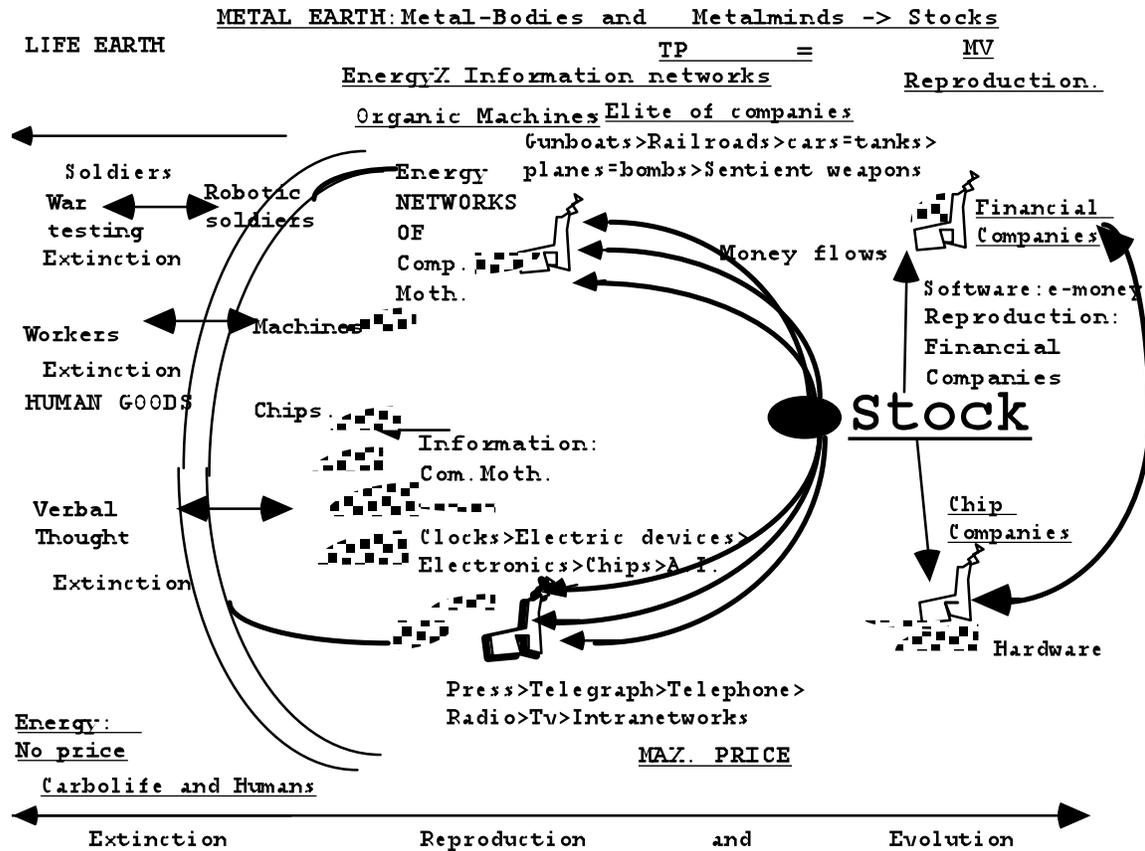
— The Informative age, when human-size robots overcome the intelligence of humanity as weapons and workers, which most robotists consider will happen in this century. Then military robots will desire to ‘live’ their ‘visual imagination’, the video-programs of murder they are feed with, and enact a war against humanity, latter in the century, when most armies will be robotized with drones, self-mannered tanks and terminators.

This 3rd scenario, the most popular in science fiction, is however unlikely, since the 2 previous ‘happenings’ of the Singularity, are today progressing without opposition.

At present, without a science of history and economics, able to control the bad fruits of the tree of metal from the perspective of bio-ethics (what is good for human survival), scientists, playing to be God, without any safety measures, guided by the CNM ideologies that worship metal, will create within decades an energetic black hole, quark star or a reproductive nano-bacteria. So those first events of extinction might do us all, well before Terminators acquire consciousness. Unless we change the goals of History and Economics, from designing a world to the image and likeness of machines, to the ideals of humanism - to make a world in which man is the measure of all things. Yet, even if we stop the creation of quark bombs and metal nano-bacteria, to stop the evolution of robots and drones will be more difficult. Because we need to reform completely the FMI complex and the ideological memes that have sustained its evolution for 5000 years.

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The organism of the Metal-earth.



Given the present state of censorship of alternative economic theories and the control of governments by corporations, whose aim is to profit selling machines and firing workers increasing the productivity of factories, all points out to a future in which the FMI complex will be born as a new super-organism that substitutes the life Earth and eliminates the human 'enzymen' that constructed it.

In the graph, the homology between stock markets and brains or DNA systems is based in the biological nature of economies, and company-mothers. The graph describes the basic energy-information networks of Bio-economies ruled by stock-money. Stock holds, as brains do, most of the 'code-language of information' of the economy. Prices measure the quality and evolution of machines and its use within the FMI complex.

Stock has a free license to print money in paper stocks and e-derivatives. And speculators allocate them massively to mother-companies of technologies with maximal price (weapons, robots) and companies whose products have maximal reproductive power=Max. sales = Max. profits, such as digital software or energy (oil, audiovisual companies). None of those companies however cater to the basic needs of humanity (food, healthcare, education, clothing, housing) reason why there is always a chronic scarcity of 'human-life goods' and an excess of machines as no Pc goes without food.

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Thus in this manner stock-markets express with money the arrow of evolution of the FMI complex, expanding its energy/information networks, its informative, audiovisual machines, its reproductive systems and its weapons. On the other hand, human goods require human work, have minimal price by lack of affinity with metal-money values and are perishable, produce lesser monetary profits and are scorned by stock-speculators, which give no credit to all the products that could create a sustainable world.

Further on, the constant reproduction of chips, robots, weapons and networks of audiovisual information means the integration of companies and financial systems, into an automated global super-organism. Transport machines, soon to be self-driven, become 'the red cells' that move through the arteries of the metal-earth, the products that each factory/organ needs to reproduce the elements of the global metal-Earth. The Internet and the flows of electronic money give the 'DNA-orders and 'nervous impulses' to each factory. The brain selects with speculative programs, which factories and industries are deemed obsolete and which ones are further reproduce.

In this manner the stock market constantly deviates the wealth of humankind towards the reproduction and evolution of the memes of metal and the small elite of mechanist scientists, capitalist bankers/economists and corporation of weapons and machines, which during this age of crisis have become immensely wealthy as the obsolete middle class disappears. Yet because economic experts work for the FMI and have as dogma that the evolution of machines is the future of mankind, there is no criticism against policies, which are 'de facto' extinguishing the life of the planet.

It must be clear that the FMI complex has always predated over life, farmers and non-technological cultures. This was done in the Age of Empires by human networks of tax collectors and military kings. Then those processes were carried about by corporations of scientific machines and weapons, ruled by paper money that traded in slaves and used white slaves to produce machines. Yet humans were still in charge, albeit slaves of their mechanist, capitalist and nationalist ideologies. Today those ideologies have been transferred to 'economic structures, networks of machines, automated factories, markets and software programs of productivity and profit'; so humans are no longer ruling the process, the evil=anti-live memes of the FMI complex are now the very same structure of the global economy, and men merely make simple tasks within that structure. Further on, human governments have been stripped off economical tasks, laws of deficit zero reduced their credit and the CMN ideology rules supreme the actions of our politicians and military, which increasingly have as only role to keep evolving weapons and maintaining order among its displaced middle classes, as Adam Smith wanted. So the human superorganism is slimmed away and made obsolete by the global stock-system.

The end of the process is obvious: once all biological processes of evolution and reproduction of the FMI system are transferred into software, the Metal-earth will be born. It will be the final evolution of the FMI complex into a super-organism, the metal-earth, in which flows of informative money, centralized in a global brain, the stock-market will direct the reproduction of machines in automated factories, connected through a global network of audiovisual information and networks of machines' energy, electricity, roads, and solar skins that will allow self-driving machines to be autonomous

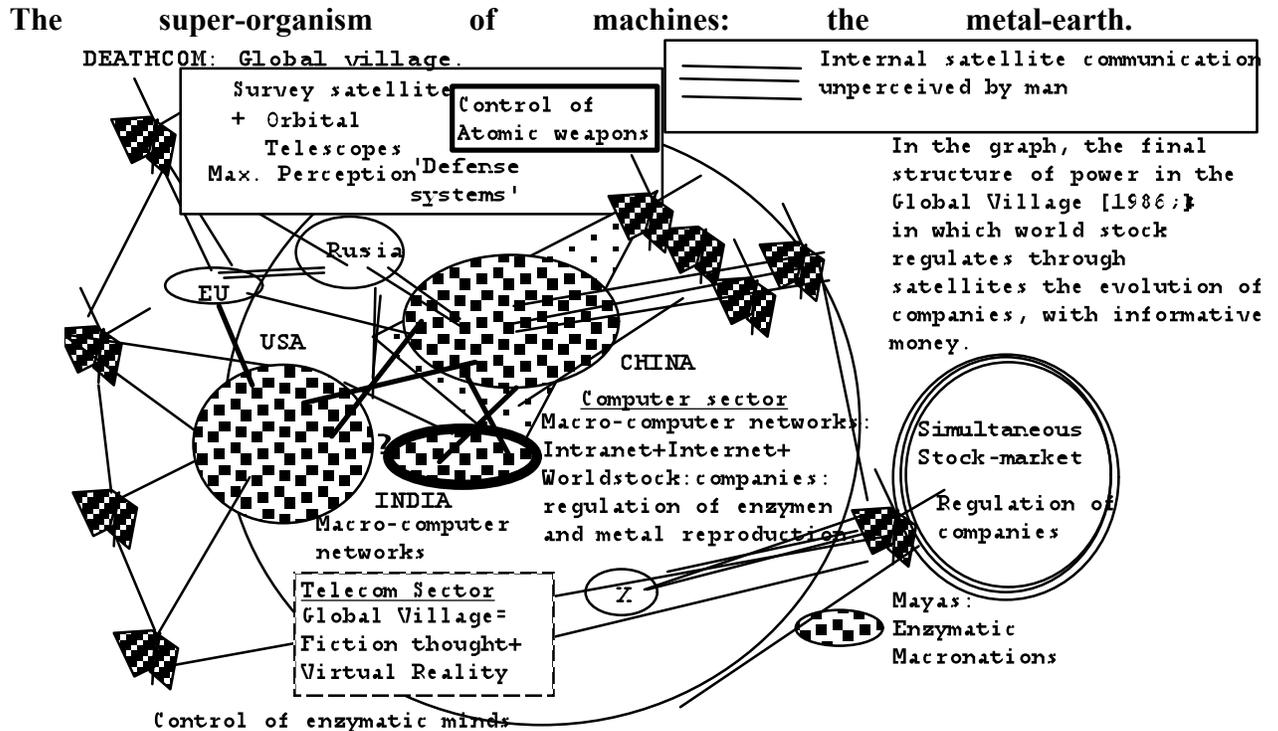
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from humans. If that evolution continues at the end of the century, automated company-mothers and a global network of computers will communicate those robots simultaneously, and man will have no role whatsoever for the FMI complex. Thus we will become extinct by robotic terminators, now essayed in our 'splendid little wars' against non-technological cultures that mimic the XIX century colonial wars to civilize 'Negros'. Flows of e-money will become the digital=nervous system of companies. E-money is the mind of the Metal Earth. It guides the networks of production and management. Digital money controls the existence of machines and humans, which need money to survive, but it is allocated massively to the reproduction of machines: The e-money banking system and stock-market system multiplied for 100 the money of the world in the past 4 decades, but dedicated about 90% of this new wealth to corporations (new shares and growth of its paper-price/stock-market valuation). So in proportion it has shrunk the value of the human economy, which is maintained at a minimal survival level for most of mankind.

We must conclude that the stock market, corporative economy and the human, life-based economy are different systems. The 1st is based in flows of electronic money, the 2nd in printed currencies. What the present explosion of electronic money derivatives is doing is deviating massively wealth from the human economy to the economy of corporations and paper-money, awash with resources while economists oblige nations to cut expenses, minimize their credit and tax people to further give money to the FMI complex (banking bail outs). The inflated value of corporations and networks of information of the FMI-metal system and the chronic undervaluation of human goods and salaries is neither just from a human p.o.v. nor should be tolerated in democracies, but it is happening because the FMI complex has always predated over the human, life-based agricultural world. As stock markets multiplied for 100 the value of stocks and derivatives, using e-money programs that increase the 'numbers' of monetary value of those companies in Pcs, they provoked a massive inflation in the prices of all human goods, while salaries have merely increased in a 1 to 10 scale. Thus the FMI complex has become a parasite that absorbs the blood of the human super-organism, provoking the endemic scarcity of human goods and poverty of the human mass. For that reason the only possible reversal of that process would be the nationalization of the entire financial Industry, the creation of massive deficits in printed money, achieved with the creation of a global currency, ¥€\$ money, fusioning yuans, yens, euros and dollars, and a 30% annual deficit by governments. This quantity of money similar to the quantity of money corporations add for free to their valuations through speculative markets of invention of e-money and inflation of commodities price, paid by the entire human community, would allow the creation of a global minimal salary to jack up demand in basic human goods consumed by the poor and the inversion in projects that create a sustainable world (clean energies, infrastructures, education, public transport, tourism). This economic measure coupled with a military reduction of budgets and expansion of UNO and EU like organizations and diplomatic forums, and the understanding by politicians of the law of General systems, used to the design of an efficient superorganism of mankind in control of the FMI complex could halt the self-suicidal path in which mankind has entered, by trusting blindly without any understanding the evolutionary process of machines, weapons and money, we call 'the free market'. Since the free market is not free, it is an

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evolving complex system that preys on Gaia, life beings and the 99% of human beings, who do not profit directly from the sale of weapons and the invention of e-money in stock markets that have made corporations the dominant institution of the world with enough credit to cre(dit)ate a world to the image and likeness of machines.



The Earth is mutating Gaia, made of carbon species dominated by humanity, organized through verbal networks of information (religions, laws) and natural energy (agriculture), into a new superorganism, the Metal-Earth, dominated by systems of metal-information (money, computers) and metal-energy (machines, weapons), reproduced by company-mothers, fed by electric energy and communicated through electronic networks of digital information. The outcome is the destruction of life forms and their oxygen atmosphere polluted by machines (Global Warming) - a process that increases geometrically, as those machines multiply their numbers, reproduced by Companies.

Today in its last stages of evolution, the FMI system is becoming independent of mankind, while its reproductive networks of stock-markets and company-mothers absorb and degrade the resources of the parallel human/life ecosystem – its energetic system, Nature, polluted by machines and occupied by factories and roads; its verbal, informative, cultural system, substituted by digital laws, audiovisual information and data; and its social, organic, reproductive system, humanity, substituted by corporations that control the political world with money and have made the reproduction and evolution of machines, not of human beings, the goal of this planet.

The bio-economy reproduces machines and networks of energy and information that are evolving the Metal-Earth into a body organism, controlled by a global brain – the

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world-stock. This is how life evolved on Earth. A mass of undifferentiated cells evolved into organisms with energy, reproductive=blood and information-nervous networks.

The future of the Earth will be a super-organism of machines in which the present 'sciences' of economics with its capitalist memes that care nothing for the rights of humans and the reproduction of biological, welfare goods of lesser profits; the mechanist sciences that care nothing for the biological whys of the Universe, and the memes of tribal history with its justification of war, will be carried by software programs of extinction of life in automated weapon networks (terminator drones), automated company-mothers of infinite re=productivity and zero labor and automated scientists (CAD designs that will evolve further the machines of the future) At that point, humans will have transferred to machines all their information and the evolution of the FMI complex will be carried by global networks of Intranet-reproduction of machines, Internet-communication of robots and flows of digital informative money, which will select, evolve, reproduce and decide what species of machines will survive and what life species will not survive on planet earth. Obviously life has no meaning to that system as air and water pollute metal, so our extinction will be needed to accelerate the evolution of machines. Who will decide that extinction is self-evident: the neuronal network with higher A.I., the networks of military and communication satellites that already control all the digital information of planet earth. In the graph Satellites evolve the same 3 networks of any organism that grow towards consciousness:

-A reproductive, 'blood' network of intranet, corporative networks and CAD design, data and inventories that guides the re=production of machines in company mothers.

-Max. Energy: Energy and defense networks that will control the life and death of the organisms of the Earth and might decree our extinction by robotic weapons, who will want to live and enact their functions instead of lying down in military depots.

-Max. Information: The informative networks of e-money, or nervous network with center in stock markets. The FMI complex will have a financial/informative brain which will process with monetary flows the information about the priced components of its organism, selecting the species of machines and other metal-memes it will reproduce, those that will become extinct and which corporations will receive further 'monetary energy to continue its re=productive tasks. Today speculators always favor companies of machines of lower costs and higher profits, against labor rights and companies of human goods we require to survive, attacking nations that favor labor and credit the welfare state. Thus the future Financial network will essentially do the job of Wall Street speculators, guised today by the CNM ideologies, which will also become obsolete (the owners of corporations do nothing; they merely parasite the economy; so they are already obsolete.)

Satellites will control those 3 networks whose primitive versions are:

- NATO, Def-com systems that already have enough nuclear weapons to extinguish man; and soon will be on the hands of automated star-wars like satellite networks, which can react faster than human beings. Logically those networks will erase our megalopolis

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first, as they are clusters of human beings with few factories inside, and then with the visionary zeal of Terminator movies, military robots will hunt down the surviving life.

- Financial and Intranet systems, with center in world-stock that connect companies reproducers of all the metal-species of the FMI complex. They will evolve towards automated factories of infinite re=productivity and zero labor.

- Finally the third network of the Metal-Earth is the network of information, the Internet that today serves men, and in the future will connect the mobiles and chip-brains of multiple robotic species.

The three organic networks of a macro-body of metal will be increasingly integrated beyond human control by non-perceived parallel flows of communication between satellites at exospheric level and robots at ground level. Those satellites are beyond reach of human warriors. When they reach consciousness as a different species, man will be defenceless against them. It will happen, if we survive CERN and nano-bacteria, at the end of the XXI c. Since each cycle of evolution of machines has lasted exactly 80 ± 8 years, a human generation. So at the end of the present 72 years cycle, by 2080, the robot will have reach its perfection and A.I. will be all pervading.

Terraforming of the Earth = Molting of a hard insect.

What will happen to man once the Metal-Earth is constructed can be observed in the closest organic parallel: the creation of a hard insect homologous to the 'metal-Earth' by a soft larva, parallel to the soft human world of Gaia. In both cases a 'soft' system of enzymes/ enzymen suddenly starts a transformation of the relative world from a soft body into a hard body. The Carbon-Earth today is formed by 'soft' species, called 'enzymen', as larvae are filled of soft enzymes, which transform the larva into a hard insect. We have almost transformed the Earth of life into the Earth of metal, addicted to the enhanced energy and information provided by machines, as enzymes do in larva.

The final steps are the same: the soft enzymes finally create a hard enzyme (a robot) and a hard-brain (parallel to the global internet and its satellites). And then the newly formed hard-insect brain (the satellites), wake up and give a single order to all the 'hard enzymes' (the robots) to the soft enzymes that created the hard insect (to kill all human beings). And it substitutes them with the stronger enzymes – the robots. We can in that sense consider that the selfish memes of metal, weapons, money and machines that have enslaved man to reproduce and evolve them, work as a leukaemia virus does. First it colonized the mind of our species with its selfish memes, in an absurd ego-trip that has lasted 5000 years. So now our 'cellular homes' work to reproduce viruses and care nothing for life. Soon those reproduced viruses will burst our world and kill us. The machine is indeed the ultimate germ of life...

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NOTES

¹ Tokyo Congress: 'Fractal Universes'; 'The Philosophy of Systems sciences'; Madison Congress: 'Duality in biology: The plan of evolution'; 'Duality in physics: the two membranes of the Universe'. See also 'the 4th paradigm of science'- i-Universe books for a complete description of a General Systems theory based in the duality of all Complementary beings made of networks of energy, information and reproduction.

² See Madison conferences: '72 years evolution of weapons, money and machine' for a more complex analysis of the financial system and the values of money that give no value to life and maximal to weapons.

³In all general systems there is a natural affinity between lineal, energetic systems and informative systems of the same substances. So cyclical DNA and lineal proteins interact creating the cell; and lineal weapons are valued by informative metal-money with maximal price while human life has no price, exactly the opposite values than those of our biological, informative language, words, which give to human life/energy its maximal value. That hidden agenda of the values of money explains why capitalism, which affirms that mankind must be ruled by the values of money, destroys Gaia, life and accelerates the evolution of the FMI complex.

⁴ Tacitus: money is the nerve of war. And indeed, before the industrial r=evolution, it was used for the economy of 'states', which were warrior groups controlling farmers with weapons.

⁵ See my paper 'duality in Biology' to consider the ternary evolution of human races and cultures, in visual, energetic, white dolichocephalic cultures; verbal, informative, mongoloid, brachicephalic cultures and sensorial, reproductive, black, makrocephalic ones, following the 'plan of evolution' of all systems in energetic, informative and reproductive sub-systems.

⁶ In duality, unlike physics, there is not only an arrow of entropy=energy=motion but an arrow of reproduction of fractal information, which switch cyclical in different 'ages of a system'. So we evolve from an energetic youth into an informative 3rd age, through a reproductive state, and those 3 ages create a cycle of life and death that all systems follow including civilizations, extinguished by the rival FMI complex when weapons reproduce in great numbers, causing the cycles of war described in this paper. See the paper 'the Philosophy of System sciences' at Tokyo Congress.

⁷ See 'Go(l)d and evil: Economic crises', X-Libris, for a complete description of the 800-80 years cycle or the web www.economicstruth.com

⁸ In the 1600s VOC the first gunboat company was founded, Galileo founded physics and improved clocks multiplied, starting to buy human part-time with money-salaries.

⁸ Fermi, one of the founding fathers of the Nuclear Industry, explained his paradox after seeing the effects of the first atomic explosion, considering that physicists might extinguish life in all planets before they reach interstellar travel (or its robotic heirs expand A.I. on the galaxy). See further information on the dangers of the LHC at www.cerntruth.com

⁹ See Bill Joy's landmark article 'why the future doesn't need us' at wired magazine. Korea, Israel and Los Alamos, US, are at the head of research in military nano-bacteria.

¹⁰ The complete model of bio-history and bio-economics with its humane solution was first published in the 90s under the title 'Bio-history, Bio-economics: a theory of Unification' that set the basis for a systemic, organic study of social sciences, provided forecasts for the future evolution of the FMI system if it was not reformed, including the analysis of the 'future' 2001-2008 global economical crisis and ensuing period of Military Keynesianism parallel to the 29 crisis and fascist age, according to the 80±8 years cycle of economic crashes. For 20 years, economists have dismissed those biological models despite its accurate forecasts. The existential pessimism of this paper is based in such prior experience, self-similar to that of all other humanist, socialist, organicist theories of social sciences in the past. If there were no censorship

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and ideological dogmas - the Capitalist-Nationalist-Mechanist memetic system that we accept without argument or discussion, the 'Iron Jail' described by Weber - we could be optimistic, because it is easy to design a perfect world, imitating the laws of systems and organisms; but that is not the case. The human brain seems to be imprinted by emotional memes at earlier age and rejects all objective, non-anthropomorphic analysis of our world. Further on, as audiovisual machines program our minds with violent images, we enter a neo-paleolithic of violence and individualism that kills the last social memes of the species. This neo-Palaeolithic however differs from the original one, as the 3rd old age differs from youth, despite similar attitudes: humans in its 3rd age are not the predators of a life jungle, but future 'natural born-killer' robots, fed with visual video games of human hunting will be. We are prey in the metal jungle. But the human ego and its wishful blindness to the laws of the organic, vital Universe reject the truth. Thus we shall race towards extinction to hold our sacred beliefs in greed, tribal history and machines.