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World's Economy: what is money?

Physicist's approach to tendencies in world's economy

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Abstract

Today economy is run without knowing the rules. Perhaps commonwealth should be allowed to function under its own laws that could be discovered similarly to those in physics or biology. Moreover, perhaps the quantity value of what money measures could be discovered as well. Greed in whatever appearance, direct or hidden, should be excluded completely.

Key words: world's economy, crisis, money, bubble of value, greed, noosphere, psychology, religion, physics, commonwealth, common good.

Introduction

Along with the globalization of economy, money for the first time starts to function as the global measure of value, and the current world crisis shows that economists do not know the rules how money works, and, moreover, they do not know what money actually is, because money has started to function as a global parameter for the dynamics of economy only in the conditions of economy's global functioning.

Although economists observe empirically that money tends to become less and less valuable as the world economy grows, they have not noticed that it is not the value of money itself that actually grows; instead, it is some kind of a "bubble" forming behind the process of change due to incorrect consideration of the global rules of economy. As soon as economy becomes global, the bubble bursts, and we find ourselves in a situation where we are unable to follow and understand the process anymore.

Economy is based on the principle of greed, if simplified. However, it should be capable to function in accordance with its own rules. What are these rules? Now the world is forced to start thinking of it seriously, not simply following what first comes into one's head. Physicists build incredibly complicate theories and experimental devices in order to find the fundamental blocks of the universe. whereas contemporary economists are generally still on

the same level, or about the same, as Heraclites who bought the whole year's olive crop, trying to persuade the rulers of the polis that economy is also subject to rules.

What are valuable things?

Question about what actually is valuable, is of first order of significance for commonwealth. But what concerns economy, the process of valuation or assignment of its value to what is assessed is based on the principle of greed. The problems arise in case we need the reassessment of previous values when for some reason values are changing. The greed wants to rescue what it has in any case without loss of values whatsoever. Isn't the crisis actually this problem of reluctance of greed to loose values?

But we are interested in objective rules of economy and assessment of values without presence of notion of greed actually although knowing that it should stand somewhere behind. Have we escaped that though overseeing greed as objectivity we have overseen actual process of forming of values in our commonwealth? No, we have not escaped this, and we may now name this as some formation of *bubbles of values*: what they are? May we define them? We think that it is easier to show some well known examples from crisis's genesis than to define the thing itself. We give three bubble-formation examples.

First. What are these values what were left overseen that allowed the pre-crisis-bubble to inflate? Most of them are connected with people themselves, considering them both as producers, and consumers of goods of commonwealth. Now these anthropic values are degenerated to incredibility. Bubble-burst has left nominal money keepers without money itself because it is lent to someone who never would be able this money to return. These we might call *bubble-creditors*. But world is not yet ready to isolate oneself from these people and their aggression. As a result, world doesn't possess initiative to start to functionate appropriately in after-bubble-burst-world, and the world is developing in direction of some auto-abyssees or else, name of what nobody is knowing. Second, bubble-burst has left whole army of people who are considered as before-bubble-burst-most-valuable-part-of-humanity: they are mostly these who are considerably more wealthy (with higher incomes 10^5 times and more) than these who are dying in Africa from starvation, but actual estimation of all this should be a subject of new science of values in commonwealth. Third, bubble-burst has left incredible amount of products of production, be these buildings, cars, computers, and whatever else in no ones possession or in eventual possession of creditors, which value tends to be left outside the reach of the real market of the world, and now these things themselves are left for something specifically contrary to abyss, figurally speaking: now these things are moving upwards from below with tremendous speed, but after some time they should fall down from heaven, and nobody knows who would be, if any, happy possessor of specific thing.

The three named things are the main subject of the new science of value of money that world economic crisis has posed to us. Not solving them is not solving whatsoever. Whoever teaches otherwise is deceiving community or oneself.

Of course, there is some functional part of the eventually new science of economy that should be constructed or invented from the very beginnings, but it should be developed as exact science, but not as tool for group of most greedy persons.

What world community presently have as measure of value of money?

At present, it is market, demand and supply, with addendum in tools of regulations by legal laws, that is naming prices for things, and in whole and in general produces value for money. Market in generally sense, where human qualification becomes article of market too, produces all including values of their own constituents. All this starts with rude demand and supply rule, and then, with interference of legal laws and regulations, develops in what we see all over.

But in nature rules are not invented in sense as laws are invented in some authoritative country by dictator. Rules are discovered, not invented. Maybe God invents rules, people must them discover. The same applies for rules of commonwealth. We see now only some empirical approach at work: market is let to run spontaneously, by its own way, only with some episodic interferences from side of legislature. The praxis of the market's correction with legal laws as model of world economy would be compared in physics with some assumable lasting investigation, say, of second law of Newton, starting, say, with $g_1(F) = g_2(m)g_3(a)$ rule, and thenafter, taking some hundreds of years to discover that function g_1 should be linear, then this same for functions g_2 and g_3 , or, even, in some complicate mixture of discovering these linearities, but with incredible time consuming duration. Why so? Nobody is believing there should be rules? Who gave knowledge to Newton? Apple?

But, people, there should be rules and laws of nature, the same rules and laws, that we find in nature, but only with anthropic implication. Thus, to solve our problem, we must facilitate development of all anthropic sciences, which, in their turn, should give clues for exact economical science too. One more suggestion, the problem might turn to be so complicate that we need to take for its solving our common effort: how to exercise it, the common effort? Yes, what could be our common effort? First of all, we must allow all sciences develop, be they of religious or mystical or whatever else cast from today point of view, some examples being these: (1; 2; 3; 4; 5; 6; 7; 8). We must say to ourselves that sciences are these activities of our lifestyle that lead us to our commonwealth. Third, there is no escape from this statement, either we solve, or we die. Second, we must think about science not as competitive activity, i.e., who is cleverer is more winning, but that we all by thinking and by scientific activities are doing some common work. In (9) author suggested to consider collective thinking as process something comparable with time in general. Let us use notion of noosphere, used in their scientific argument by Teilhard de Chardin (10) and by Vernadsky (11). Noosphere may be considered both as collective mind and capacitor of results of thinking. If noosphere might be considered as general container of whatever thinking activity, there could be sense for some scientific subsphere of noosphere, scholar-sphere or ratio-sphere, or called whatsoever else, that would correlate to mind more specifically in

some scientific way. We already have one common effort, that natural one, i.e., our contribution in noosphere, but we have not learned to use it sufficiently creatively or sufficiently targeted. All types of competitiveness should be eliminated from our scientific praxis.

Returning to the question in the beginning of paragraph, we must say that we can't consider that we have only theories of market, and that is all. No, not so. Let to the contrary, for a while, let cast out all what we have in connection with market, and see, what we have left behind, and then start from this point as some ground state. This attitude is valuable because we may be forced to behave just in this way in case economy stops completely. We named three big spheres which should burst; after this we would start from some very beginning: which rules we would apply? Are we going to leave this question to those who would survive, who would be rulers in this period? Are we going to kill all creditors and all capitalists? Leaving all in its own way, the massacre would be even more rude with much more victims. We must clearly state before us: where we are pointing now, communism of Mark isn't anymore type of escape. We already have left this opportunity, if any, behind us.

What could be taken from physical sciences?

Physics may be called science number one not because it tackles problems of ground rules of nature, but because it has achieved the most incredible success in its development. In case Heraclites could visit our planet second times, he would be surprised by at least two things: first, that people still needs his suggestions about how to solve their economical problems, and by one more year's crop of olives, and, second, how far contemporary physics is from the state that was in disposal of his time. Following this point, let us ponder, isn't this somewhat escaped from notice of most clever scientists and contributors to economic sciences? Someone may argue that economic sciences use most forwarded methods of modeling of mathematics, and so on. Rubbish. The notion of values as scientific qualities, qualifiers, or quantifiers are absent in economical sciences at all. Nobody knows what money is actually, what is its value. Do gangsters know its value? But it is not science. Greed is borrowed from animal world, not from scientific thinking.

World's economy has produced sufficiently many goods for all people to live in the world comfortably. We do not need to struggle for living existence any more, at least, in general, and, if somewhere these problems still are present, then because of these same reasons why world is in conditions of crisis, but not because of lack of ways to produce goods in the world. World has experienced Roman empire, Medieval times with feudal way of running economy, modern times with capitalistic economy after Adams Smith model. Now we come to something else, something new. We must start to discover proper rules of economy, of role of money in it, we must discover what money is eventually.

In book (12) Kerson Huang shows how all physical laws may be arranged in nature under one general pattern. Gauge symmetry, equipped with most forwarded mathematical tools switches all necessary things that arrange laws of physics in nature in way that one might wonder who all this arranged in our universe. But this beautiful picture of our universe with

laws of nature being run there is revealed before our eyes only after scientists in all times have exercised incredibly great effort and ingenuity. But, after all, the world is the same, matter and its rules are run by mostly simple and beautiful laws. (Even God who might be very responsible person for all this is not found to be the most greedy person in universe. What a miracle for all greedy of our planet!) Then, maybe our commonwealth may be run by this same pattern? Or even, not we would be who run it, similarly as in case of universe, when it is run from nature, or God, if person at all. We should do some proper actions, and commonwealth to response to our actions would function according the rules. Which rules?

Rules have two sides. Nominal side and functional side. For us, first it is crucial to find how these rules work. Then after, we may try to find nominal side too, and try to formulate them. Central question in all this theory should be question – what actually money is, what value is measured by money? What value should be measured by money? Now money is subdued to voluntary actions of stock exchange transactions; why these actions are performed by persons, why only greed at work? If we could run all this under some discovered laws, then money maybe would emerge as some measuring instrument of values in transactions in commonwealth.

Physics (13; 14) has many to say, much more to say, let us draw physicists in for rescuing of world's commonwealth. In today's understanding of economy, money measures some general value, but of what? Is this value degree of freedom? But then, why only one? In sciences we know many degrees of freedom under action. Maybe, we do not understand what we run if only one degree of freedom is applied in our way of running of economy? Or money measures some other quantity, directly or some hidden not yet discovered? Then this quantity achieves values that money measures, either directly, or via some rule. This quantity is parameter of whole body of commonwealth: but it function as degree of freedom in the same time too. In any case, rules of what we are running should be discovered, and scientists have many models in other fields of human investigations, which would serve as good patterns for management of commonwealth.

Who are most loyal people in modern society?

Scientists. The answer is trivial. But why nobody has noticed this? Why society is ruled by people who are named presidents, ministers, members of parliaments, administrators, officials, politic responsible persons, and so on? Of course, people have noticed, if someone has no access to money, he may be most honest person in the world, but, it suffices to appoint him or her to some office with access to money, and outcome may be most unpredictable, as effect he or she may become some sort of most adherent person for valuing of money for this person's own uncontrollable growing greed.

What works against greed? Some people are preordained by God to be outside this vice. But let leave this outside for this text. Person's occupation makes person's position without need for greed in its characterization. One of such is person's occupation with science, but without personal profit. Or simpler, we must learn to discern when person is occupied in science only with interest for this science or with other implications. Today we would have

sufficient many physical equipment to measure parameters of person's activities in the process of thinking, but nowadays nobody don't seems of trying to solve these problems in this way, because this would be the greatest threat for all greedy persons in the world who as a rule sit in chairs of presidents, ministers and other mostly profitable offices.

Thus, first method would be to force people become scientists. But not all people may become scientists. Maybe in future, not today. Next thing to be called, may be religious. For religious ones there applies the same argument that in science. Religious person may be as greedy as most greedy parasite in the world. But, as we told before, there are actually religious people who receive from their being religious very great inner support of force, pleasure, happiness, and so on, possibly naming all Holy Spirit graces from Bible. In the same time, there may be persons to try to use false religiousness, pretending being such, trying to get profit from all this business. How we can decide? Can't be persons with both trends, good and evil? Maybe.

What are else human activities that make people less subjected to vice of greed? Arts, and being artist. Next, all creative people. And, in the end, people who tend to think more for benefit of other people than for themselves. From point of view of greedy persons, they are ill, they are mad; they can't defend themselves, they are not able to do things for themselves, because in this they do not any sense of their lives. They are unguarded from side of society. People with usual instinct of greed do not love such people. We know that such people exist among us. Some of them we know from history. We know Nikola Tesla (15). But there are many of them who didn't become famous inventors or whosoever else. Why we do not have scientific equipment to measure crucial brain activities of such people? *Exempli gratia*, we have lie-detectors invented, why not non-greedy-detectors¹? The problem is harder? No. Answer is clear enough: we must think that these benefactors are our presidents, bank presidents, mostly paid persons on the planet Earth. In no case we should learn that some or many rather of them maybe sit in prisons, are inhabitants madhouses, or are simply beggars or bushrangers. Many of such people are actually in the world (how many? who knows), let world economy's rescuers try to find at least some of them, in lunatic asylums or like, in order to rescue by help of them their spared billions and, as small addendum, the whole world by the way.

Escape by use of implanted society?

One might suggest to solve money and greed's problem suggesting to implant all people with chips, in order money exchange to be run by use of global computer. Then after, people would use not to know what is money at all. All would be run by world's superprograms, both financial operations, and economical actions. But it is not sort of solving of problem, this method is called *problem besoming under carpet* method. The disaster of this method might be even more horrible, than now with money present. Nothing would be solved in this case: greed would be left, but now to operate with other methods: by achieving

¹ Such non-greedy-detectors would become very dangerous instrument for all who now are ruling our countries and commonwealth in general.

positions, offices, honors, and so on. The struggle would be carried out in other fronts with mostly avaricious modes, but not be stopped in any way.

Another escape: Having problems, let us pray for others.

When we have most heavy problems without any escape whatsoever to do, what we would do? What to do when there are not let options to do anything? There is always one last option, and this is, to pray God for people who maybe are in even worse conditions. But this is way of thinking concerning theology, or religious teachings, or religious ethics, and so on.

But let us turn this paradigm other way. Let us suppose that there could be analogue approach in business-like world too. What we mean by this? Maybe, in case we want to solve our general problem of economy's rescuing, there exist some way to try to apply this religious-like approach. In case some person does not have money to solve his own problem, he is performing action to help someone who is in similar or even worse position. Figurally saying, let someone help to someone in Africa not to die in order to rescue person's own economical position. And, maybe as some mode of side effect, after person has learnt this method, he would cease to think only for his own benefit, but starts to think for benefit of other people too.

This gives us general clue after all. Let us give rights to exercise commercial activities only to people who do this for benefit of society, but not only for themselves. We know that partially this rule works, i.e., business people procure working places, jobs for society, they supply shops with goods, they produce all type of goods, after all. Now, let this approach work completely, to the very end. Firstly, let do not allow to exercise commercial activity for greedy persons. Second, let us discover precise rules how we could run economy under such conditions in general. Let us discover psychology of person able to be manipulate with money.

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