

Revaz Lordkipanidze

General Issues for Economic Development and Theory of Competition +

using Physics, Mathematics and Neuroeconomics

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Competition+**

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Imprint

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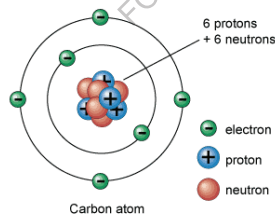
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Revaz Lordkipanidze
Doctor of Economics and World Economy with the best estimate
of Harvard University courses “US Government” and “Justice”

General Issues for Economic Development and Theory of Competition in New Electronic World



*Scientific Research Results in Format of
Thesis Issues for Researchgate.net*

2022

*Dedicated to the Peaceful and
already very rich World Economy*

The author – antiterrorist and world economics doctor Revaz Lordkipanidze, after the innovative application of the laws of physics in economics, received the highest grade from Harvard University by the courses “US Government” and “Justice” with an open appeal that the world needs leaders like Him.

*=Reviewed and edited by the International Charity Scientific-Research Partnership of
Physical Persons with Public Academy on ResearchGate=*

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§1. The Newest Results for Economic Development and Democratic Competition

General Issues for Economic Development and Theory of Competition in New Electronic World

God-given "Healthy Competition" can work wonders, if different dictatorships don't get in future global ways

By nature, the electronic world will be more transparent if it is not forcibly taken over by undemocratic monopoly dictatorships.

As in the construction of a building, the strength of the foundation is of paramount importance, just as important is our century for the future of a unified world.

According to my calculations, for 2025-2050, the following are of particular relevance:

- 1) the creation of a world antimonopoly organization;
- 2) liberation of energy and grain markets;
- 3) full control on genetically modified production.

On the Necessary Connection of Scientific Disciplines Based on Economics and Engineering

I think, that the wise reader remembers my writings about the necessary optimal interconnections of scientific disciplines and recently received a review (comment letter) with genius idea of Italian scientist - Sergio Mariotti:

„Dear Dr Lordkipanidze,

I am writing to share a paper titled "Forging a New Alliance Between Economics and Engineering", recently published in the Journal of Industrial and Business Economics.

The paper investigates the economicsengineering nexus. Looking at the history of the intriguing relationships between the two disciplines, in the paper three paradigms for the economics–engineering nexus are identified – economics “for/and/as” engineering – and their dimensions are discussed. This investigation enables to infer possible disciplinary scenarios in relation to the contemporary

and future society, influenced by the cluster of organizational and market innovations induced by artificial intelligence technologies.

The paper calls for a new “alliance à la Prigogine” between economics and engineering driven by a transdisciplinary-oriented change in the epistemology and methods of the two disciplines and in their way of being and interacting. The mission of the alliance is to restore a unified perspective of knowledge and putting the study of complexity in the foreground.

If interested, you can use the link below to access the paper yourself or share it with colleagues.¹ Let me know if you need the pdf. I welcome feedbacks and comments.

Wishing you the best,

Sergio Mariotti“

I am an engineer-economist by profession and really appreciate the brilliant Italian architectural school.

All scientific disciplines, starting with physics and mathematics, need economic expediency. Logically, the pioneer undertaking of Mr. S. Mariotti deserves special attention and we would be happy to support the scientific community of ResearchGate, supported by space NASA.

¹ <https://rdcu.be/cj3jV>



<https://www.state.gov/countries-areas/italy/>

By 2050-2100, according to our calculations, E-commerce by Mobile phones will become the leader in growth rates among the sectors of the World economy, even ahead of personal computers

The position of the leader will be determined by the following factors:

- 1) the optimal size and lightness for carrying and working in the near era of flying taxis and the exploration of Mars;
- 2) reducing the cost of time (89-90%);
- 3) reduction of fuel costs for transport (50-60%);

4) reducing paper costs (30-40%);

5) reduction of various office costs, incl. for business trips and rental of conference rooms (15-20%), etc.

The evolution of the Political Economy Understanding of Competition from George Washington to Joe Biden and from Adam Smith to Michael Porter

The pioneer of American politics - George Washington has always been very cautious about competition of parties as a necessary but explosive tool for the stability of society.

In His 1796 farewell address, G. Washington talked at length about the “danger of parties in the state”:

“There is an opinion that parties in free countries are useful checks upon the administration of the government and serve to keep alive the spirit of liberty. This within certain limits is probably true... [but] there being constant danger of excess, the effort ought to be by force of public opinion, to mitigate and assuage it. A fire not to be quenched, it demands a uniform vigilance to prevent its bursting into a flame...”²

² <https://www.mpsanet.org/what-george-washington-really-meant-about-political-parties/>

I think it will be of interest to the reader about the paramount importance of individual human instincts and hence competition from the father of economics - Adam Smith, who was a contemporary of the First American President.

In “An Inquiry into the Nature and Causes of the Wealth of Nations”, Adam Smith wrote:

“Every individual necessarily labors to render the annual revenue of the society as great as he can... He intends only his own gain, and he is in this, as in many other cases, led by an invisible hand to promote an end which was no part of his intention... By pursuing his own interests, he frequently promotes that of the society more effectually than when he really intends to promote it. I have never known much good done by those who affected to trade for the public good.”³

I sincerely approve of Adam Smith's views - he sensitively understands human psychology and, accordingly, the benefits of perfect competition - the maximally low prices and high quality, but His vision of the abundance of goods, His successors, was assessed as the need for an abundance of competitors.

³ <https://economysg.wordpress.com/invisible-hand/>

I have recently become acquainted with Mr. Washington's above-stated opinion on caution towards party competition, and I was very pleased with the depth of thought of this great thinker. As You remember, my physics-psychological generalizations led to similar political-economy conclusions.

I want to metaphorically sum up my theory of perfect competition with the opinion that competition can be perfect and will "shine" better if we have even 2, but almost equivalent and bona fide competitors. This is vitally essential to have an equal effective (necessary, natural) environment, and not to rush after a huge amount.

The role of the modern American President Joe Biden is invaluablely great, who, against quantitatively intense aggressive competition, fights with the maximally possible humane methods, softens the problem and even ended the longest war in American history⁴.

For the economic theory of international competition, I also find invaluable the role of Michael Porter, who carefully teaches on role of leadership stability not to enter into heightened competition of conflicts and thus not to lose huge time in the historical well-being of development⁵.

⁴ <https://alumni.duke.edu/magazine/articles/reckoning-americas-longest-war>

⁵ <https://hbr.org/1990/03/the-competitive-advantage-of-nations>

After 1000 works, I do not want to be annoying and do not think that I am repeating the same thing - INTERPOL must be strengthened and war criminals and dumping predators must be powerless immediately

After 1000 works, my respected colleagues compared my labor result with the thousandth goals of Pele, who, by analogy, scored in the legendary "Cosmos" as well⁶. We sent this information about my works to Mars with support fantastic cosmic NASA.



⁶<https://www.theguardian.com/football/2014/oct/21/new-york-cosmos-soccer-franchise-past-future>

In my opinion, the main happiness from my works is that my thoughts are realized in practice - often even without citations my participation.

In very difficult time for world, this historical photo, after the publication of the 1000th work, was taken at our very far-famed Opera House, where, to protect women and children, I spoke on behalf of the Georgian youth, as the winner in the largest number of Scientific Olympiads:



One cannot be ungrateful to genius America, which maintains our greatest Peace and makes the World open and effectively Electronic, but the truly unprecedentedly terrible aggressors constantly evaluate all this as evil.

After 1000 works, I do not want to be annoying and do not think that I am repeating the same thing, but very bad SOS news from

international conflicts confirmed, that INTERPOL must be strengthened and we must make powerless of war criminals and dumping predators immediately.

Essential Consequences of my 1000 Physics-Economical Works on Fantastic ResearchGate (Scientific Network Supported by Cosmic NASA): New Understanding of Competition and Urgent Need to Protect it

I devoted my whole life, from early childhood, to science and, despite the most difficult times, did not abandon it.

Today, the most difficult conflict times have come again, which confirmed the importance of my proposals for supporting competition.

A new understanding of the views of the classics of economic competition and approximate calculations step by step for each country led to the result that the world can be peaceful and become 2.5 times richer if we financially strengthen international antimonopoly monitoring under

INTERPOL and as well use my assessments of optimal competition.

Prospective restorative effect for innovative America from international antimonopoly mechanisms

I would like to express special gratitude to the American people for the Internet and the unprecedented technical innovations associated with it - they make the world more open, just and convenient.

But hidden monopolies interfere with this and organize various terrorist attacks and pandemics - as a result, this great country suffers greatly and poverty multiplies in the world.

I conducted a multi-factor observation on the economy, the math-entropic maturity of the economy and the cosine of the angle of the vector of possible improvement and came to the conclusion that if an international antimonopoly structure is created and INTERPOL is strengthened accordingly, the innovative US economy will break free from the exploiters of

cheap labor, will make a jump in a year and American GDP will grow by at least \$20 trillion (!).

Perfect Competition

Competition is the driving force behind the development of mankind, but it should not overstrain relations and cause market or any other wars.

To understand optimal - perfect competition, we must realize that perfect competition should not mean a large number of competitors (“A large number of buyers and sellers”⁷), as has been thought since the time of the classics of economic competition.

Perfect competition can arise even between two roughly equivalent competitors, if they are honest and do not collude against consumers.

⁷ Bork, Robert H. (1993). *The Antitrust Paradox* (second edition). ISBN 0-02-904456-1. https://en.wikipedia.org/wiki/Perfect_competition

Using the laws of physics to comprehend the objective processes of society led me to the following understanding of perfect competition:

Perfect competition begins to operate in full force only under equal (democratic) conditions for market participants (including international ones) and the existence of a really operational antimonopoly structure against collusion and other injustices.

The laws of nature are more perfect than the laws of society, since there are no secret agreements and artificial barriers in nature. That is, perfect competition in the economy needs to be protected. I became to the vital opinion that perfect competition is not a quantitative issue, but a matter of political maturity in today's global society.

I sincerely carried out the deepest mathematical-entropic analysis of the maturity of the economic structure of the world, different countries and regions, and came to the conclusion that the world (which is less subject to regulation) is much

more mature than various dictatorial overregulations. And logically, as soon as possible, we must strengthen international structures to protect free competition and appropriate vital prices.

Unfortunately, even some "scientific" publishing houses create financial and various other barriers for scientists who need to be paid for diligence, and not be under various monopolistic price presses. Scientists are the head of society and they must be valued if we want peace and prosperity.

I want to express my sincere special gratefulness to ResearchGate and cosmic NASA, which especially help to scientists and create fantastically free and the most equal conditions.

I send this work to Mars with the hope that this vital issue will be solved by those time with the joint efforts of scientists at ResearchGate.



How my scientific innovations have brought to a new understanding of perfect competition as moderate (rather than overindulgent) for a better human life

I am especially grateful to the professionals who saw my novelty in science, that competition should be moderate. For some reason, it used to be thought that perfect competition should understand the endless growth of competitors.

If one must eat in moderation and the circulation of money requires a moderate amount of money, for some reason some still do not understand that competition must also be moderate. Too many competitors can lead to overstrain.

And even if healthy competition between family members leads to good results, “excessive” competition can lead to severe tensions and collapse of a family.

At the level of state relations, if competition is not healthy - moderate, wars and large-scale losses begin.

It is necessary to evaluate moderate competition according to the indices I have noted below and to defend this healthy level together at the international level.

Why it is very convenient to use my competitive indices along with the American HHI for stimulation innovations

I am confident, You remember my weighted average competition index (weighted average share of n companies in the market = $\sum(S_i V_i)/V$, where S_i – market share of i company in percent; V_i – i company volume in dollars; V – total market volume in dollars), which I'll use as an example to compare with the US HHI index, which I sincerely respect a lot. If we have, for example, three sales on the market with volumes of 50% (\$500), 30% (\$300) and 20% (\$200), the HHI index will be 3800 (as $50^2 + 30^2 + 20^2$), and my index will be 38%. For a specialist, it is clear that in this case 3800 is expressed as a large concentration, but for a wide observer it is convenient to clearly comprehend this as a percentage - 38%. In principle, we arrived together with Americans at the same result, but in different ways.

As well, I am confident, You remember my indices according Ohm's Law $I = V / R$. By my calculations of economic competition, I - is the Force of Economic Competition, V - the volume of the Market, and R is the largest business-supplier on the market, which, if behaved badly, can turn into a monopoly – even very dangerous for society.

In future writings, I will focus on my innovations and now in order to stimulate of innovations it is necessary that the strength of competition was optimal, and not the greatest. According to my new calculations, in modern conditions, for efficiency it will be best if the strength of competition is more than 5 and less than 10, and it will be worst if it is less than 2.

I think that it is very essential to calculate the optimal index of competition in the core of the market according to the above-mentioned resistance R from physics.

I believe it is very essential to observe the ratio of the largest supplier in the market (as noted above resistance) and the other suppliers:

$$I_{cc} = R_1 / (R_2 + R_3 + \dots + R_n)$$

This concentration index proposed me gives the best results at levels from 11% to 25% and the worst result came to light at the level above 100%.

As well, the market core concentration is very well researched by EU specialists, including Remo Linda, who I really appreciate especially.

The world should be united only on the basis of open sincere Science in everything, including in Economy and Law

History has shown, that in secret conspiracies there are both progressive leaders and pharisees (those who hate believers and laugh at the permanent conflicts of brotherly peoples), which were finished to the most dangerous wars and economic decline.

Successes in age-related world sports and friendship with world champions showed me that each person is individual and it is impossible to train all athletes from different countries in the same way (unified), but the strengthening of unified international law enforcement structures is vital for the world. Let's increase each country's contribution to the UN so that the armament of the UN is at least twice that of the most armed country. Then there will be no conflicts and the development of world science will bring unprecedented income and happiness.

Economic damage from war and the power of reasonable alliances

The war gives income to the military industry, but on average, according to our calculations, this is almost 16 times (!) less than the damage from destruction and economic shutdown.

My scientific works and calculations were justified once again. The UN and Interpol should be so strong that no country could start a war of mass destruction. This is very unhealthy for the modern world and already very-very dangerous to endure it.

This is especially painful to watch how the historically brotherly countries are at war with each other. Now I express solidarity with the Ukrainian people⁸ and if the world eradicates war together, this will be the beginning of a more peaceful and economically happy the EU and our world whole.

⁸ <https://www.facebook.com/revaz.lordkipanidze/videos/1428781980873435>

To this, we congratulate You with Mother's day from Georgia - I think Mother's Day greetings are never tiring, moreover, they are doubly memorable for me - after winning in most of the creative olympiads, still on behalf of the student youth, I congratulated the women on March 3 and then, officially, this day became holiday in Georgia. Congratulations once again to our Mothers on this beautiful day and I am sure we will live in a new happy - more united more peaceful world soon.

The sincere prayer is the strongest and we pray especially daily that with Your greatest peaceful efforts the world would be both more peaceful and economically stronger.

As well to Peace, Welcome to my over-marathon 54.1 km: today I finally defeated COVID-19, fulfilled my promises 14 km for WorldRun and, for support to Peace in Ukraine, I invite our great runners to the very difficult for show of force, but my

peaceful over-marathon (I ran 54.1 km not long ago) and long-throws basketball tournament. Let God strengthen all of You.⁹

The screenshot shows a mobile application interface. At the top, there is a status bar with 'GEOCELL', signal strength, Wi-Fi, time '00:11', and battery '14%'. Below is a navigation bar with a back arrow, 'You', and 'Activities'. A search bar contains the text 'Search by keyword'. The main content area features a profile for 'Revaz Lordkipanidze' with a profile picture and a location 'Vake-Saburtalo Raion, Tbilisi'. The activity title is 'For Peace in Ukraine: Welcome to my over-marathon 54.1 km'. The description reads: 'Today I finally defeated Corona-19, fulfilled my promises 14 km for WorldRun and, for support to Peace in Ukraine, I invite our great runners to my over-marathon (I ran 54.1...'. Below the text are statistics: 'Distance 14.09 km', 'Pace 4:40 /km', and 'Achievements' with three icons and the number '5'. A large image of a black t-shirt with 'UKRAINE' and the Ukrainian flag is displayed. At the bottom is a navigation bar with icons for Home (with a red '12' notification), Maps, Record, Groups, and You.

⁹ <https://www.facebook.com/photo/?fbid=5012404862128255&set=pcb.5012433955458679>
<https://www.facebook.com/photo/?fbid=5012406302128111&set=pcb.5012433955458679>
<https://www.facebook.com/100000763734822/videos/pcb.5012433955458679/319856533446619>

§2. Reflections from Calculations under the Medium-term Strategy

**Actions of the Law of Attraction of Physics in Economics
(I organized a multifactorial research using Physics, Mathematics,
History, Psychology and Neuroeconomics and came to the vital
conclusions, that my Georgia, as other divided countries, will
definitely united, like modern Germany)**

Naturally, public and natural laws are interconnected and united and I think, that "The Law of Attraction" (Physics) obviously works in Economics as well. By my opinion, this is expressed in the attraction of a Human to more profitable countries.

According to my calculations, people are especially attracted to the high-income countries of the European Union, 2.3% less attraction coefficient to America (interfering reasons - frequent natural disasters and a relatively large distance from the rest of the world) and another 5.3% less - to Japan (also an interfering reason - frequent seismic shocks). All this is normal and good, but if we quickly overcome international barriers, the standard of living in all countries will

equalize as much as possible and emigration will not oppress either the West or the East.

The example of my country - Georgia, also shows that when it was united, even very successful citizens from many successful countries were drawn to it, but as soon as it was divided and the standard of living in 1994 fell to the last place in the world, on the contrary, many began to leave this country. When our fellow citizens see that things are getting better in our country, they decide to return to their homeland. It is psychologically substantiated by my investigations, that the reality seen is better than the promised "wealth". This is well said that "It is better to see once, than to hear a hundred times" (Georgian proverb).

Georgia will definitely be united, like modern Germany, but we must always remember, that, when the enemy attacks us, we will definitely try to defend ourselves with love and objective justice will soon be restored. The Savior is in all people and if we become wicked as enemies, we will only hurt the Savior.



Suddenly, I fell ill with Covid-19 for the first time, but I am so sure that I will overcome this plague, as I am sure that my country will become united, following the recent example of Germany. Objective justice is always restored within the God-given natural boundaries of individual countries.

The main recommendation from me is to adhere to objective laws and support their implementation. I am writing sincerely - only it will be beneficial for both progressive and reactionary countries.

The results of calculations on my theory «Relativity of non-oligopolistic competitive prices» and what the wise actions of the Georgian Competition Agency brought

I think the attentive reader remembers well my reflections and novelty about the relativity of prices. Now I have calculated that in an optimally efficient competitive market, price variation is less than 10%, and efficiency from innovative technologies takes a giant leap and increases by almost 80% compared to an oligopolistic market.

As an economist, I cannot but express my gratitude to the Competition Agency of Georgia, which, by order of the Government, was able to restore order in the markets of medicines and petroleum

products, where prices fell by an average of 20-25% only in January-February of this year (!).

The existence of barriers to the movement of medicines from neighboring Turkey, gave benefits only to local monopolists. By a wise decision of the new Georgian Government, the barriers were removed and prices immediately returned to normal. The Competition Agency received especially thanks from the pension and poor population of the country. As a result, turnover and revenues have increased essentially.

What can lead of misunderstanding about perfect competition for American and all World markets in terms of the number of competitors

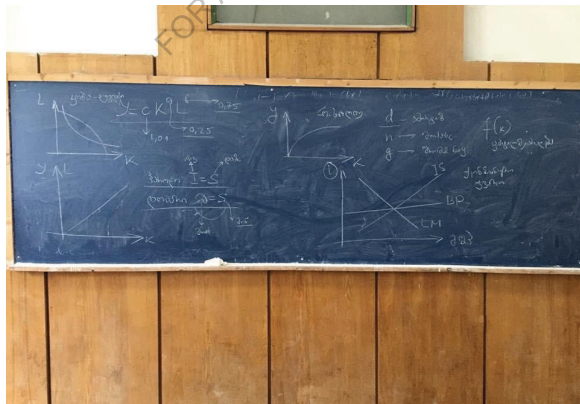
If, according to the erroneous opinion of some classics of the theory of economic competition, we assume that perfect competition is determined by the endless growth of competitors, we will interfere with our large domestic producers and allow unscrupulous foreign importers to ruin our economy. I am sure that the modern US leadership will not make such a mistake.

Naturally, there are reactionary forces in America as well, but the history of world wars and the pandemic has shown that the United

States is the leading flagship of Democracy and Charity, and whoever does not see this and engages in terrorism will end up in hell.

Current settlements total from Interpol's gain:

My multi-factorial investigation on the elimination method and macroeconomic models showed me that the strengthening of Interpol by the international antimonopoly agency is primarily necessary for small countries to protect themselves from hidden monopolies.



But as the Pandemic has shown, this is also necessary for the United States and other large countries that produce more than half of the gross world product and have suffered the most from the pandemic.

According to the results of my calculations, if we reduce the effect of hidden monopolies by a possible 90% through the joint efforts of Interpol, in the first year we can double the world product and bring it up to almost 200 trillion \$, which is usually achieved in 10 years.

So we will quickly restore losses from the pandemic and update equipment with accelerated depreciation. This is not a utopia. Hidden monopolies greatly hinder the development of progressive countries and science and technology.

If we don't do this, the hidden monopolies will continue their terroristic ways and the world could become dangerously impoverished, unpredictable and out of control.

New Monetary Stability Ratio and why the Dollar is Popular and Competitive

As the general scientific community knows, the stability of money in the historical past was associated with gold reserves and further with the quantity of goods.

I believe that these are "grandmother's tales". Without an effective (competitive) economy, gold reserves cannot last long and if there are a lot of excess goods, we can get hyperinflation and, accordingly, the devaluation of money instead of stability.

I thought a lot, calculated and came to the conclusion that the stability of the currency most of all depends on three factors - the scientific potential, the volume of exports and the level of economic efficiency.

Logically, by my opinion, new “Monetary Stability Ratio” should equal “Quantity of Scientific Innovations” multiplied by “Goods Export” and multiplied by “Living Standard”:

$$\text{MSR}=(\text{SI})\times(\text{GE})\times(\text{LS})$$

For example, the popularity of the modern US Dollar is due to these factors of this successful country, and not to gold reserves or early monetary formulations of excess unsold production.

Life betters through scientific innovations and those countries live better, in which scientists massively live in respect

Some "thinkers" argue that today's youth are less educated and more attached to computer entertainment. Opponents of this believe that gifted young people have

come and they will improve life significantly. The answer is not in youth - youth has always been and will be, the main thing is to teach them well in the sciences and for this it is necessary to respect scientists.

I work on perfect competition and currency stability and have come to the conclusion that the more scientists in the country and their respect, the better life is.

There is no need for a limit. Science is needed in food and sports and, of course, in bettering the legal structure of society and in new technologies.

From history, we remember that human lived in caves, experienced the persecution of freethinkers from many dictators, but science still saved and gave a better life.

According to my calculations, if the number of scientists increases by 1%, and their salaries do not

decrease, but grow by at least also 1%, the standard of living improves by almost 5%.

Wonderworks of intuition from economist

According to my predictive calculations, the strengthening of INTERPOL with the creation of an environment of perfect competition is the best factor for protecting political peace now.

My predictions were often justified - for examples:

1) under the reactionary - unjust atheistic dictatorial system of the USSR, I was baptized and in prayers I very much asked the Lord to improve the situation (inexpressible gratitude to God - the reactionary system collapsed and on the day of the Most Holy Theotokos Mary I had a daughter); 2) in my early youth I wrote about the phenomenon of Nona Gaprindashvili and this

brilliant chess player continues to delight the world - brilliant scientists Nina Javakhishvili supported me in this and in my innovations¹⁰ for the development of classical views on perfect economic competition; 3) as well, I supported and will support Cristiano Ronaldo and Mike Tyson, other fantastically talented humans and they justified my hope.

Are “deflationary freezes” needed in the economy?

As we know, modern initiative of 5 countries¹¹ to end of Atomic cold war gives great hope in regulating even price cuts (deflation), which is much more dangerous

¹⁰ Lordkipanidze R. 5 main discoveries of my scientific innovations. - Theses on Law, Economic Policy and Money: Professionalism and Law-obedience in Everything and for Strong INTERPOL on Foundations of American Lessons to the Best Life (Issue N73): 2022: 37: DOI: 10.13140/RG.2.2.16442.11205 <https://dx.doi.org/10.13140/RG.2.2.16442.11205>

¹¹ <https://www.usnews.com/news/world/articles/2022-01-03/russia-china-britain-u-s-and-france-say-no-one-can-win-nuclear-war?context=amp&fbclid=IwAR08VFhOVmlvxOzZ7ngXTRy4rTzOAY10rPKFBb746P5FrazIZbOdPR0rfNI>

than even inflation. But sometimes a deflationary policy is necessary.

By my calculations, "Deflationary freezes" in Economy and the reduction of prices, costs and highly qualified civil servants are possible only very rarely (approximately once every half a century) and for a short time (maximum for 2-3 months) and not like under monstrously inhuman fascism, who was more cold-blooded than robbers which can reform.

Economic effect from Christmas and fantastic Marathon with new really unexpected records on Saint day for all our Happiness (Prayer at 19 Churches will undoubtedly help overcome Covid-19 this Year)

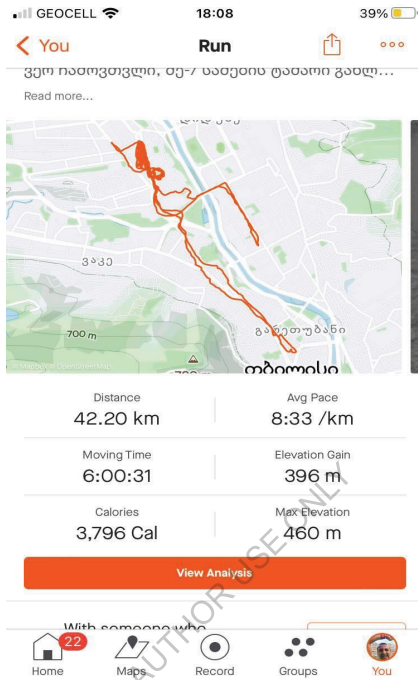
Our Christmas newspaper was published at the University Geomedi, where my congratulations were also published, after

which, on the day of the publication, increased the activity of the students by the lecture-seminars exactly 3 times.



By my calculations, nearly the same effect was observed during the Christmas discounts in the trading network.

A fantastic marathon was held on a clear frosty day for the happiness of all of us - my method has proven its effectiveness - a number of indicators have improved with record-breaking.

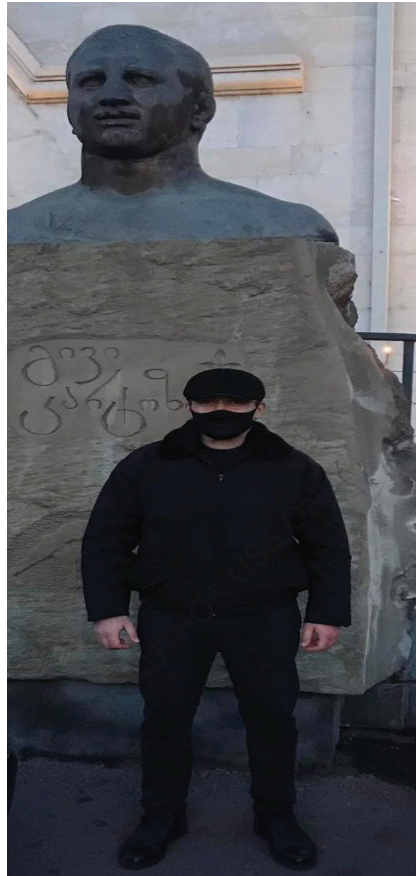


Including the world online and marathon run victories in Georgia age locations, it was my 7th marathon and I prayed to the Epiphany nearly to 19 temples (7th was our greatest Trinity Temple, which was constructed with some my donating by Presidential scholarship while my student era).

Great Anchiskhati (the first Icon of Christ), Archangel Michael, St. David Builder, St. Ilia Righteous, Spiritual Mother Matrona, Spiritual Fathers Vitaly and Saba will definitely help us and, along with 19 temples, finally destroy Covid-19 in this year and by the grace of blessed water in St. Qashveti, I pray from heart sincerely for the health of all us - Let Saint water give You really strength in all.

I dedicated my marathon to the vivid memory of the Olympic champion, three-time world winner, two-time winner of World Student Games - Givi Kartozi¹². No less essential, than His victories is to put many young people on His worthy footsteps.

¹² <https://www.facebook.com/photo/?fbid=4878169902218419&set=pcb.4878168428885233>



By the grace of the Lord, truly by wonder, I overcame fatigue and I could go on second 42.2 km else. Many such wins to You in profitable affairs.

5 main discoveries of my scientific innovations

1) New development of the EU formulation for assessing the effectiveness of the structural priorities of the economy;

2) Revealing some important error in the classical theory of perfect competition and assessing the competitiveness of the market using the Law of Physics;

3) "Atomic balance" for the structure of the economy and perfect competition;

4) The law of price relativity;

5) The possibility of redistribution and many other objective laws and proportions.

Formulation of effectiveness from structural priorities will help us in determination what results will be achieved by stimulating businesses and industries that are favorable to us through tax, pricing, banking or other economic mechanisms.

The new development implies the improvement of the efficiency index especially. I think the efficiency ratio would be ideal and full-factorial if we have economic profit in the numerator and in the

denominator - multiplication of the following 3 components: number of employees, fixed capital and used materials.

For price relativity, a multifactorial approach is necessary as well. Innovation, before its emergence, is unknown to everyone and there is no demand for it.

Consequently, factors of invisible will and scientific surprise play a relatively large role in shaping prices with demand, utility, costs, and local government policy.

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§3. Priorities of the Earliest Settlements by the Long-term Strategy

One of the main disadvantages of the market is overproduction, but this is better than deficits and I know how to eradicate this with the "atomic balance" of the economy and how to make friends of the innovative UN from the ungrateful students who organized the terror of September 11th and strengthen the basis of dictatorships and deficits

According to my calculations, if we use my "atomic balance" in each country, the world economy and therefore the UN will be almost three times richer and the chance of world wars will be minimized and to this:

1) The world will be able to better redistribute overproduction to the needs of the poor and the eradication of poverty;

2) The "atomic balance" of the economy is not a whim, but a natural useful device of any economic structure, which will

make it possible to create an effective legal framework, including in the form of a financially secure INTERPOL;

3) Now there is no more opposition to the market and the plan, and together we can organize the sale of the unsold surplus of developed countries at minimal prices to poor countries. This will be win-win mutually beneficial for everyone.

4) I really appreciate the role of Adam Smith in trying to bring out the invisible hand of competition. But after Smith, humanity came to the great depression of overproduction and we still cannot wait for the next pandemic depression. A person cannot change the objective laws of nature and society, but we must try to better understand them and use them in the best way and create conditions for their protection and civilized course.

I would also like to introduce You to today's great news in our scientific life¹³: American news for Your Happiness - a very

¹³ <https://www.facebook.com/100000763734822/posts/4844247062277370/>

interesting presentation was held at Tbilisi State University with the participation of the US Embassy in Georgia, where, in a historical collection published under the editorship of Professor Vasil Kacharava, Economics was presented by my paper "Development of American Experience in Evaluation of Competitivity".



There is a historical chance for the peaceful use of atomic energy - the leaders of the USA, Russia, Great Britain, France and China have come to wise unprecedented solution on curbing nuclear arsenal and my "atomic model" of economy really will make wise men rich faster, instead of times, when idler "honest proletarian reformers" flew with the newest planes and wise men driven with old cars and in ridiculous humiliation

Very-very Good News from America¹⁴: "Russia, China, Britain, U.S. and France Say No One Can Win Nuclear War".

This great news gives very true great hope and, according to my calculations, with the end of the pandemic by the end of 2022, will make the world almost twice richer.

There is a historic chance for the peaceful use of nuclear energy - the leaders of the US, Russia, Great Britain, France and China have come up with an unprecedented wise decision to limit their nuclear arsenal and, God willing, my "atomic model" of economy will get rich humans faster, instead of the Cold War era, when the ridiculous family clans of the "honest proletarian reformers" could fly the latest planes and the really wise persons were with old cars and in ridiculous humiliation.

¹⁴ <https://www.usnews.com/news/world/articles/2022-01-03/russia-china-britain-u-s-and-france-say-no-one-can-win-nuclear-war?context=amp&fbclid=IwAR08VFhOVmlvxOzZ7ngXTRY4rTzOAY10rPKFBb746P5FrazIZbOdPR0rfNI>

*Essentially new theory of perfect competition - instead of
infinite number of competitors, necessary bipolar
equilibrium in market core*

Understanding the atomic model of perfect competition has led me to the conclusion that for perfect competition it is necessary for the two main (biggest) competitors to be near equal (natural error of up to 5% is allowed, perhaps sometimes even more, as rare occurrences are observed in nature, but eventually, for example, the number of men and women is equal), otherwise we may have many competitors, but if the main (biggest) one has a huge advantage (influence), the market will be more monopolized and not competitive.

Influenced by some of the shortcomings of the classical theory, in the United States (well-known with antitrust traditions), this my view is not yet widely accepted in economic theory, however, in American policy practice, exactly such a bipolar model has proved highly justified for a perfect democracy.

Naturally, every country has own specifics, but this theory addresses the general foundations of economics for all and is urgently needed for all countries. When each country has a competitive market

(given this theory), hidden monopolies will find it difficult to enter to such markets. In addition, we need to make adjustments in determining of competitive prices. Pricing should not be attributed only to demand. A person may have a very strong demand for bad habits, but this does not mean that these habits are valuable and society must necessarily regulate its price - to lower it, using other levers to restrict its use.

Political bipolarity in America without any theory - formed spontaneously and really became an example for other countries (the main thing is to have two main poles, the rest are intermediate options - political parties and views can be many). But for the economy, a new theoretically justified reform is needed, otherwise, from 1995-2000, economic crises multiplied and terrorist dictatorships intensified on September 11 and various pandemics. Review my earlier opinions and calculations on these issues:

*Where production and retail profits are equal, efficiency is maximum
(A New Constitutive Discovery came from us in the New Year 2022
for publication on Researchgate - historically the largest free digital
supporting of Science)*

Do not think that I am doing popularization to myself - this is really very-very essential for a just and happy future of the world economy.

The sphere of production is often knowledge-intensive and requires more complex labor, but here the profit is on average 10-15%, while in retail it is approximately three times more - 35-50%.

Consequently, there are more frequent depressions in production, which has a very bad effect on the stability of the world economy.

But I found out that where the state helps science and the profits of production and trade equalize around the level of 25%, the efficiency reaches its maximum value. An example of such an alignment of public and private participation in economic processes is the US Silicon Valley, many economically developed countries and some new objects in my country - Georgia.

It pains me very much that some ambitious "figures" do not recognize Researchgate. I believe that every country needs to put in place mechanisms to stimulate innovators and curb monopoly profits.

Let 2022 be beginning of essential respect for peaceful innovative intellectuals and geniuses like Giordano Bruno will not be eliminated by local “authorities”: Role of human international organizations in new electronic economy is growing and should grow, but where is margin of this generalization by my “Atomic Model”?

*Merry Christmas all Innovative Peaceful Careful Reformers:
Some Officials should value scientists more as well
as the genius Giordano Bruno, despite His natural
sincere mistakes, should not have been inhumanly burned+
🙏🙏🙏🙏🙏🙏 For unwavering faith, kindness and wisdom:
<https://dx.doi.org/10.13140/RG.2.2.25377.94568>*

Even in the most developed capitalist countries, the role of humane state economic policy and global projects is still growing. This is good, but everything has a limit. Man jumps higher and higher, but we cannot become birds. Also, according to my atomic model of the economy, the public sector should not exceed 50%.

My research¹⁵ leads to the conclusion that the modern American model of the economy, with its Silicon Valley and Medical Programs, is closest to my equilibrium model of the economy, like the Atom model. This has not yet been recognized, but Americans are closer to a

¹⁵ Atom Model as Confirmation of Optimally Efficient - New Competitive Peaceful Model for Economies from America to Far East and against terrorist-pandemic hidden monopolies. - Research Results in Format of RG Research Proposal for Researchgate.net: 2021: Monograph (as collection of works) on 1000 pages: DOI 10.13140/RG.2.2.23518.36161

really caring economy than even the most "caring" communist utopian dictators. We should listen to the laws of nature and not listen to the utopia of Marx and His extreme fascist opponents too.

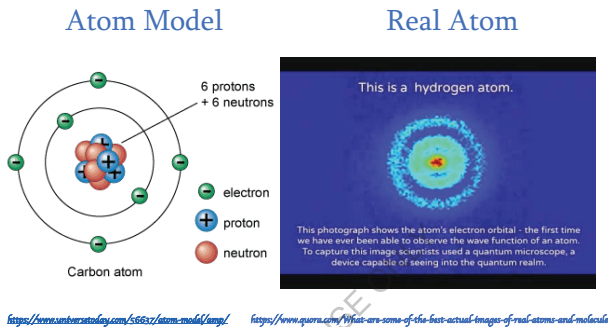
We must understand that the example of the Atom shows that if we continue to misunderstand the balance between the private and public sectors of the economy, we will violate the integrity of economic systems and ultimately damage the desired peace as a whole.

I am sure, that You will agree that the meaning of the integrity of the atom and the danger of nuclear war is well known to everyone, but the structure of the economy is no less important for a peaceful and happy life of a person in conditions of heightened economic competition from terrorist-pandemic hidden monopolies.

*Atom should be Example of Economy Structure so
that Policy-Economic System does not Collapse*

I have new "great" ideas - the equilibrium between protons and electrons shows the need for a just balance between the public and private sectors of the economy so that the system does not collapse.

In the atom, protons and electrons are in organic unity and there is no need to try to make the economy only public or only private.



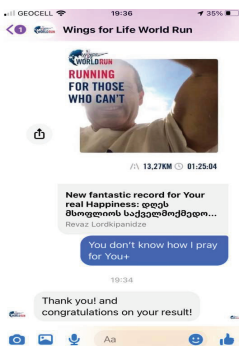
Extreme economic "reforms" cause conflicts and losses of historical time approximately by 70-80% (!) of the World economy.

Happy 2022, professionally really native for me scientists.

*Sport as the strongest weapon for reducing of public costs and rise of health level and life quality generally
(on example of my new age record after WorldRun 2021)*

No matter how difficult the time, physical training is essential with the following the rules - in last week I managed to improve my 2 WorldRun 2021 scores, when I surpassed the scores of several former world champions by age group.

A marathon is a very rewarding activity - with regular running, the brain works better, and the muscles and the nervous system are strengthened. Logically to my calculations, by regular running health care costs are reduced by an average of almost 54% and the quality of life is improved by 12%. Sick people with bad habits often blame the state and entrepreneurs, and I believe that the state and entrepreneurs should spend no more than 30-35% together on health care, so the state and business will be strong and people are more attentive to own health and insurance funds.

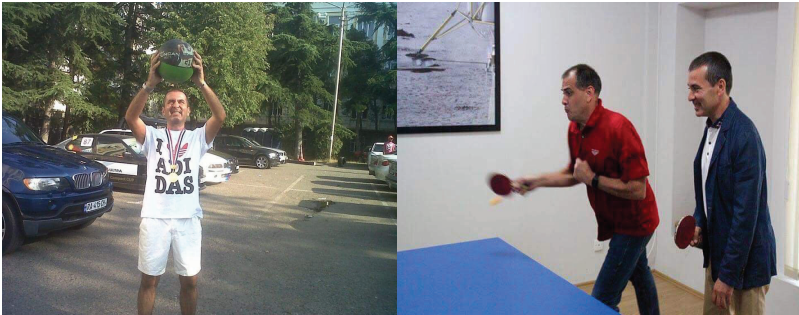


Natural Economy of “Basketball Players” Makes Exact Effective Innovative Hits and Great Jumps in Quality Economies of Scale Instead Violently Increased Quantity of Competitors

The main result of innovation is frequent effective exactness and breakthrough in economic growth. There may be many competitors in the market, but not effectively in general.

My generalizing calculations have shown that those sincere democratic leaders who support scientists are 20 times (!) more successful for the masses than those dictators who promise the masses, but do not like the mass of gifted scientists who are serious competitors for the weakening of a dictatorial power.

For example, the innovations of the American “Silicon Valley” provide an opportunity, like in team table tennis in a champion style, to make the economy flexible and operative, both for local entrepreneurs and for global progress in general.



Really Essential Discovery for Management and Global Economic Policy

Today is a historic date for me - this is my 800th publication on a truly ingenious generous [researchgate.net](https://www.researchgate.net)

I want to note that the work presented below - "New Formulation of Market Power Using Physics in Economics and with Keenly Needed Results" is compactly expressed very significant for future fruitful practice.

There is a constant rivalry between right and left ideas in the world. It's not bad. The main thing is that on their scales the balance was not disturbed and the dictatorship will not come. Professionals like You are needed everywhere - from politics to ordinary employees. To this, the higher the level of power, the more professionalism is needed and not vice versa. I used physics for economic policy and got fantastic new results, but this does not mean that physicists should rule the government. The study of politics and economics is much more difficult than even such exact sciences as mathematics or medicine. There should be only experienced political and economic scholars in Governments. Non-professionals are not eager to do surgery, but for some reason they think they can rule the country and the world. For example, my country achieved the best results when the great Builder Scientist ruled and the great Poet Scientist was the Minister of Finance.

To this, I want to mark, that there is a direct correlation between standard of living and longevity. For Rich Happy Christmas and Saint George day to all of You, I mark as well, that the Lord gives life to Human, enriches and fights with evil, which impoverishes and kills, but with wisdom we defeat evil and like the first age of Adam, life will be more everlasting good.

The richer the country and the more peaceful the politics of this country, the longer human life is here. This is axiomatic and this was finally confirmed by my observations. It is possible, however, to make some adjustments to this pattern by the location of the country and

specifically the human habitation - how ecologically clean it is and how close it is to useful resources, as well as how healthy human lifestyle traditions are.

New Formulation of Market Power Using Physics in Economics and with Keenly Needed Results

My last research (September-November 2021) led to a new interpretation of the Laws of Physics in Economics.

As we know by Physics, the power ($P = IV$) dissipated in a resistor is given by $P = V^2 / R$ which means power decreases if resistance increases. Yet this power is also given by $P = I^2 R$, which means power increases if resistance increases¹⁶.

In these formulations, P is the power, I is the strength of the electric current, V is the voltage, and R is the resistance. Until the publication presented now, I did not consider the formulation of Power and only used Ohm's Law $I = V / R$.

According to my calculations of economic competition - I is the Force of Economic Competition, V - the volume of the Market, and R is the largest business on the market, which, if behaved badly, can turn into a monopolist dangerous for society.

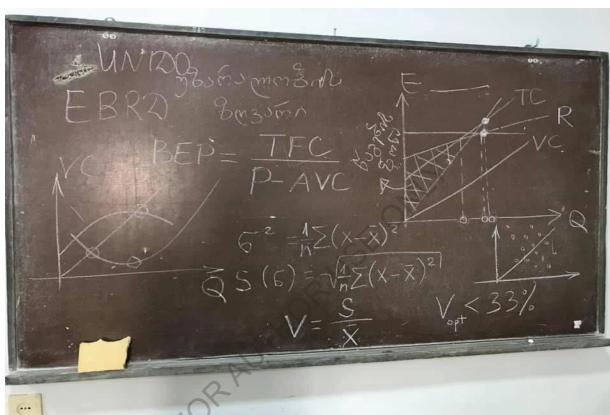
The introduction of a new concept of the Market Power $P = V^2 / R$ originally leads to the conclusions that are justified by calculations:

1) The Market Volume has the most significant effect on the market results. For example, the stimulation of the voluntary reasonable enlargement of agriculture in small-land countries

¹⁶ https://courses.lumenlearning.com/physics/chapter/20-4-electric-power-and-energy/?fbclid=IwAR0jl2G_9H8Ok-gLWv_gIAXbAARPBqHVTUUKzzXqaAmamo5yzcIACRgiwcs

through the cooperation of owners of land plots and technical parks will give a significant breakthrough in the standard of living;

2) Physics confirms my early assumptions that business enlargement does not always hinder the growth of competitive efficiency and we should especially strive to strengthen Interpol and listen to the recommendations of UNIDO and EBRD for effective business planning. If the situation calls for it, "Resistance" (size of business) must grow reasonably in the economy.



3) Again, Covid-19 is growing very much in the world - this horror is worse and faster even than cancer. As You see, I am working permanently and write against unscrupulous monopolies. I see that the monopolization of the science market very often causes various deformations. Pharisees are everywhere, including in the most needed science, which can fall into the hands of dangerous swindlers. Therefore, we must strengthen qualified monitoring at Interpol using my new formulations as well necessarily.

Reasonably protected free competition and appropriate economic policies are the foundation of public progress and the interest of my life as a researcher. Hidden monopolies impede this greatly and multiply poverty and polarization in the world.

As You know, I am for very needed peaceful American traditions of a competence and mutual respect of the Democrat and Republican leaders. The Harvard University's competent support that the world needs leaders like us has given me (2018) great incentives to pursue global economic competition and macro-micro policy research. In my research I permanently work and will work against dishonest monopolies in the world economy to a better life of a human. I am author of publications about religious base of economic growth, development of the formulation of experts from the European Union for the effectiveness of economic structural changes, US role in world progress and new structure of world market. I write for the prosperous future, but my works dedicated also to those, who died many years ago in the mass repressions of the atheistic former Soviet Union (1937).

With using the experience of the Christian fundamentals of natural, physics-mathematical and technical sciences, for practice of inter-money system optimal stimulation and macroeconomic structure marginal efficiency, by my indexes and integral coefficient from law of economic competition, the less (till optimal levels) are output of monopoly and excess (bad-quality or needless) production (or services), the more is the force of competition. I think differently from some classical views about competition. I write, that we do not need the competition of an infinitely large number of "ants" in the economy - need a natural competition of diligent competitors, where all participants (not only small, but also medium and large enterprises, as reasonably strong "lions" and "elephants" - for a rapid rise of science, mass employment and significant economies of scale with effective reduced managerial costs - for this, I developed the formulation of the European Union experts on calculating the effectiveness of structural shifts) of the competition do their necessary (effective) business. To this, I recommend, if we artificially increase the number of competitors, we can get a negative effect of "short circuit" with "overheating" of the market network.

According to my latest research results, $\text{Competition Level} = \text{Market efficiency} / \text{Weighted average share of companies}$ by my theory, the market competitiveness should be primarily determined with Market efficiency, including productivity (or capital and different materials

intensities) and profitability (ROE, ROA, ROIC, etc) indexes. There may be many competitors in the market, but not effectively in general. This does not mean that quantitative indicators should be ignored. We should also use them for a comprehensive assessment.

The weighted average share of companies can also independently assess market competition and concentration, but due to efficiency, it is a more exact criterion. The weighted average share of companies can be determined by also my formula:

$$\text{Weighted average share of } n \text{ companies in the market} = \sum(S_i V_i) / V,$$

where S_i – market share of i company in percent;

V_i – i company volume in dollars;

V – total market volume in dollars.

My discussion of competitive price behavior considers, that some Christian masterpieces (for example Wonder-working Icon), natural resources (for example uranium and any other resources for mc^2 by mass-energy equivalence) and scientific and technological innovations (for example computer) can have a huge price (even invaluable for Humanity) in the comparison to relatively minimal costs of their production. I offer also conclusions for construction new economic system in macroeconomics of post-crisis conditions and competitive non-monopolistic equilibrium (between private and public properties) as optimal way of marginal results of economic system, against terroristic dictators with golden baths and impoverished frightened masses, etc.

I have many works published on <https://www.researchgate.net> and I see that all our further research together with American scientists (the USA has collected the most significant experience in researching of competition and the protection of human life, including with public health programs) will be very beneficial in overcoming hidden monopolies for different sectors of the market economy in the electronic era.

I have formed my principles of competitive business administration and network management (based on own skills) as opposed to management of utopian goals and must deepen the results to identify the objective laws of economics. My principle of administration

is to develop wisely and not transform an excellent basketball player into a football player if someone suddenly thinks that football is more profitable.

I think, that our joint effort and mutually beneficial research will serve the well-founded goals of poverty reduction and improving to the life of a happier human.

Source on the Internet

<https://www.researchgate.net/profile/Revaz-Lordkipanidze/research>

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Curriculum Vitae



https://www.researchgate.net/profile/Revaz_Lordkipanidze

RG Research interest 12396 (Highest among European Economists here), Citations 11342, h-index 60 (8).

https://ka.wikipedia.org/wiki/რევაზ_ლორთქიფანიძე

Revaz Lordkipanidze is a doctor of Economics and World Economy, professor, academic of International Academies, with the Harvard University best estimates.

R. Lordkipanidze was born in 1965. During His school years, Revaz Lordkipanidze won in the largest number of creative Olympiads among schoolchildren and earned the Award of the Academy of Sciences of Georgia.

He graduated Tbilisi State University with Honored Diploma (1986), Institute of Economy and Law (Georgian Academy of Sciences, 1990), St. Petersburg State University with diploma of doctor (1999), was member (first from post USSR countries) of The Academy of Political Science (NY, United States) with certificates (1998–2010), He is elected academic of Georgian Academy of Economic Sciences (2013-2021), with successfully certify by EU TACIS Project (Cleaner production, 2003), University of Minnesota (The United States, Training program, 2011) and the courses of the US Government and Justice (Harvard University, 2018).

Revaz Lordkipanidze was the acting minister of Economy in Adjara region (1993-1998). As young doctor of sciences (1999), He granted with the first quality scholarship of President of Georgia (2001). He is gold medalist of Georgian Ministry of Education and written in Georgian Economic encyclopedia.

At various times, He was a invited professor at TSU and GTU, now R. Lordkipanidze is a affiliated professor of the Teaching University Geomedi. He is author more than 1000 publications. R. Lordkipanidze defines the force of economic competition ($I=V/R$)

approximately as the force of electric current. By indexes of Lordkipanidze law of economic competition, the less (till optimal levels) are output of monopoly and excess (bad-quality or needless) production, the more is the force of competition.

Hobby - Christian chants (See: Glory to Christ, Singing, author Revaz Lordkipanidze <https://www.youtube.com/watch?v=B1C8Zapq1FA>), mathematics, basketball, running, swimming, etc.

The author, by His writings, after graduating with honors from Tbilisi State University and the Institute of Economics and Law of the Academy of Sciences of Georgia, stands for peaceful mutually beneficial economic relations through the Blessing in the St. Qashveti (2001), explores the relationship between the Laws of Physics and Economics, supports wise economic reforms in Georgia and a growing interconnected world.

In the writings, Revaz Lordkipanidze especially appreciated the modern Economic Policy of the White House (Washington, as well received a grant from the American Government), support from the London School of Economics in the most difficult times of a doctoral research, Russian Academy of Sciences, Academy of Natural Sciences and St. Petersburg State University (completed doctoral dissertation), Georgian Academy of Sciences, Institute of Economics and Law, Academy of Economic Sciences of Georgia and Tbilisi State University (nostrified degree), Cambridge University (received recommendations for research in physical economics), New York Academy of Political Sciences (appreciated anti-reaction efforts in the most reactive times of post-Soviet space), NYAS and California AS, The Open Door Center (The US, received many grants and champion titles), the European Union Commission (R. Lordkipanidze improved this Commission's formulation for determining the effectiveness of economic structural changes, University of the Patriarchate of Georgia (organized a Public lecture), American Academy, Georgian Parliament Digital Library "Iverieli", The University of Georgia, Journal "The New Economist" (for many needful publications), International Olympic Committee (received Certificate), Wings for Life (World Run Organization, Many Thanks and for the best results of an age group in 42.2 km Marathon), Georgian Technical University (awarded with the 1st degree grant from the President of Georgia, supported in modern research), Geomedi University (cooperating now), other fantastically wise and courageous scientific centers from America and Europe to Africa, Asia and Australia.

The family of Revaz Lordkipanidze suffered from the terrible repression of the atheistic USSR, when the almost all former and also some current leaders were especially punished. Therefore, He advocates the possible mutual respect of former and current leaders, following the noble example of the United States.

By Researchgate and scientific activities, he has a lot of like-minded friends in economically mature countries - in the USA, Great Britain, Germany, Italy, Austria, other countries of the European Union, Russia, Turkey, Japan, China, South Korea and almost in all very nice countries from God, and he thinks that progressive scientists in each country should consolidate and only together we will overcome the dangerous global infections, international conflicts and possible reaction of each country.

The author discovered some errors in the classical theory of economic competition and worked out a weighted average indicator for the most exact determination the level of market concentration (DOI: 10.13140/RG.2.2.16952.08960). As well, He discovered 1st and 2nd Laws of Effect from Charismatic Leader Popularity (DOI: 10.13140/RG.2.2.18648.44803), Law of "Harmful Warming" in Economics and 5-factor tech model of productivity (DOI 10.13140/RG.2.2.33753.36961, at the deep level of enterprises, this can use in the combination with DuPont 3-factor model). He proposed creation of a World Economic Zone in order to minimize poverty and hidden unscrupulous monopolies. Revaz Lordkipanidze opposes pygmalionism and conformism of the most dangerous for humanity scientific directions of monkey origin of a human and gene modification.

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As in the construction of a building, the strength of the foundation is of paramount importance, just as important is our century for the future of a unified world.

All scientific disciplines, starting with physics and mathematics, need economic expediency. Logically, the pioneer undertaking of Mr. S. Mariotti deserves special attention and we would be happy to support the scientific community of ResearchGate, supported by space NASA.



The author – antiterrorist and world economics doctor Revaz Lordkipanidze, after the innovative application of the laws of physics in economics, received the highest grade from Harvard University by the courses “US Government” and “Justice” with an open appeal that the world needs leaders like Him.



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