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WHAT DOES NOT THE US POLITICAL ELITE UNDERSTAND?

*“A politician thinks of the next election.
A statesman, about the next generations.”
J.F. Clarke*

America approached the threshold when there is a desperate need for a new political agenda, a new system of priorities and concepts, and a new tasks list in science, industry, education, and politics because of right now the era of tectonic shifts in global technologies, economics, and politics is beginning. Unfortunately, members of today’s American political elite do not understand that. The two largest US political parties – Democratic and Republican - have completely immersed in a disgraceful and dirty “cold war without the rules.” As a result, the **common goals and national unity** disappeared first from the U.S. Congress and then from the entire America. Today the USA seems not the united country, but some space occupied by warring tribes. The irreconcilable enmity and wolfish hatred between the US Democratic and Republican parties makes it impossible to further modernize America and "freezes" its progress for many coming years. There is a strong wish to shout to Democrats and Republicans the Mercutio's words from the famous play by Shakespeare: **“A plague on both your houses”**...

Here are more detailed “List of incomprehension”:

1) About 2040 (via 20 years only!) solar, wind and hydrogen energy will almost completely replace coal and oil and partly gas (by the way: the sun and the wind do not need to be mined, be transported or burned in furnaces!); according to DOE's data, after 2020, 1 "green" kWh of energy will cost like 1 "coal" kWh. Electric cars will be on the roads (by 2040 90% of all sold motor cars in the world will be electrical). Airliners and space rockets will switch through “non-fuel” technologies (laser, photon, magnetron, or plasma engines). 3D-printing technologies will replace mechanical engineering and building industry. Industrial robots will replace workers, technicians, and farmers. Artificial intelligence will replace engineers, lawyers, teachers, doctors, and other degreed professionals. Gene therapy will replace pharmaceutical pills and capsules and also surgical scalpel. Carbon nanocomposites will replace metals (steel, aluminum, titanium). Artificial (biotechnological) meat and milk will partly replace cattle and poultry farming. Blockchain-technology will be used for public administration, management of finance, and for national elections, and tens of millions of officials will become unnecessary. There will be super-speedy quantum computers and quantum Internet. The super-speedy 5G Internet will lead to creation of "global digital economy". I.e. essence of labor in the close future will change in a revolutionary fashion. Once again, I emphasize that for the first time in the history of civilization it is not about replacing some jobs for humans with other jobs for humans but about the mass replacement of jobs “for humans” with the jobs “for humans” with the jobs “for robots”, and people can partly lose the economic value.

2) Same will go for the Army Forces of any advanced countries: soldiers will be replaced by combatant mini-robots; military tanks will be replaced by robotic armor-machines; military aviation will be replaced by hordes of combatant drones; navy will be replaced by self-driving mini-corvettes and mini-submarines. Therefore, a military division will consist of 10,000 combatant mini-robots, 2,000 self-operating armored platforms equipped with laser and electromagnetic weapons, 500

combatant drones, plus 50 cyber-attacking quantum computers. (About 2040, all the US aircraft carrier will only be suitable for intimidating of Somalia pirates!)

3) Instead of subsidizing the PAST, such as the coal and steel industry, the U.S. Government and American elite should invest in the FUTURE (see #1, 2). Probably, the economy of the future must aim for stability, but not to growth.

4) The U.S. President can protect his country from foreign products and foreign workforce, but the presidents who can protect American markets from robots, 3D-printers, artificial intelligence, genetic technologies, etc. – do not exist!

5) Global climatic turbulence will be the cause, first, of increasing in number of hurricanes, floods, earthquakes, “awaked” volcanos and wildfires (the budgetary expenses will grow), secondly, of increasing in number of droughts (the cost of food will grow).

6) It is necessary to stop categorically senseless mass death of Americans (predominantly, young) within the country because of: A) Gun violence – about 30,000/year; B) Drug overdose – about 60,000/year; C) Car fatal crashes – about 35,000/year; total – **125,000 persons per year**. It is the monstrous number!

7) How and what our children are taught today at all levels of school will lead to the fact that tomorrow they either will not find jobs or will lose them quickly. We must teach our kids to be creative and innovative. Natural resources, labor, and capital lose their value and significance, whereas KNOWLEDGE and INTELLIGENCE are becoming the number one commodity.

8) All following generations cannot count on a full-time job at a government office, a plant, or a corporation; on a steady salary, medical insurance, and future retirement benefits. They will need a more active stance. They will have to ask themselves, “What do I really want and can do? What business can I start? How can I contribute in development of civilization and at the same time provide for myself and my family?” But, probably, there will be a lot of work and jobs when we begin to fly to other planets and to create there colonies. Then there will be a lot of new jobs all levels.

9) Over the course of the next 30 years 90% of the existing fatal diseases will be curable with the help of the newest biotechnologies, and the average life expectancy will approach 90. Therefore, by 2040 there will be five joyous seniors for one working American! However, the mechanism of aging is built into human genome (and in all alive organisms) not for nothing: he provides evolution of biological species due to alternation of generations. If we will suppress this mechanism created by the nature (or by the Lord?), we probably worsen quality of human population, and it will surely create to us new unknown problems.

10) Future generations will find themselves in the world where only the minority of population (15-20%) is working – and these 15-20% will produce the minimal GDP required for the entire country. For the rest of Americans not only there will be no work, but will not have a real need for it. The super-challenge of the future is to find worthwhile purpose for the people who are not going to work for decades. In other words, we are talking about finding in future a new way of life, relevance, and even success not tied to the everyday professional activity.

11) As for international policy: Russia will continue to spread a lie and a chaos in Europe and the USA, will continue to assertively bribe the corrupt Western top-politicians (including, alas, some Western Presidents), and to support Iran, North Korea, Hezbollah, Taliban, al-Assad’s Syria. China

will successfully aim for world supremacy pushing away America to the second place; probably China, but not the USA, will write the following chapter of global history in the 21st century. ***The twentieth century was the arena of fight of communism against capitalism; 21th century became the arena of fight of dictatorship against democracy.*** And I fear: in the next World War, not the one who has more rockets, planes and tanks will win, but one who is ready to kill and destroy millions of own and alien citizens.

12) Unfortunately, development of technologies began to outpace moral development of the person, and these two ways go away more and more, darkening ours "the great technological future". Whether will present this new technological future and new moral values for mankind? - I don't know. However, Christian moral values – Ten Commandments which have been given to Moisey by God on Mount Sinai – exist and work more than 3,000 years ...

13) The American nation, the U.S. political elite, the American educational system (especially elementary and high schools), and the American scientific and industrial complex are poorly ready for these upcoming revolutionary changes. And keep in mind: any artificial intelligence is forceless against natural human stupidity!

Appendix

Comparative data for the US Presidents' cadences: B. Clinton (*Dem.*), G. Bush-Jr (*Repub.*), B. Obama (*Dem.*), and D. Trump (*Repub.*)

Index	B. Clinton (4-th quarter, 2000)	G. Bush-Jr (4-th quarter, 2008)	B. Obama (4-th quarter, 2016)	D. Trump (4-th quarter, ????)
GDP (<i>up/down</i>)	+4.0%	-4.6% (recession)	+2.0%	?
Budget – deficit/surplus	Surplus (+\$300 billion)	Deficit (-\$1.4 trillion)	Deficit (-\$548 billion)	?
Unemployment (u3)	4%	9.5%	4.6%	?
Unemployment (u6) (<i>part-time's workers are added</i>)	8%	26%	19%	?
Share of the US in the World GDP	25%	17%	22%	?
S&P 500	1300	700	2400	?
The US national debt	\$5.7 trillion	\$10.2 trillion	\$19.9 trillion	?
10-year rate of the US treasury bonds (<i>i.e. cost of service of the US national debt</i>)	5.1%	2.5%	2.4%	?
Cost of oil (1 barrel)	\$30	\$140	\$50	?
Number of the Americans (<i>more 21 years</i>) who don't have the health insurance	39 million	50 million	14 million	?