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Prince Charles' Tragedy of the Horizon



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Prince Charles' Tragedy of the Horizon

Cover
This Week

Prince Charles' phrase, "tragedy of the horizon," is part of his propaganda that climate change will impose catastrophic costs on future generations that today's generation has no incentive to fix. On the cover, wind turbines litter a California landscape.



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Opposition Threatens to Derail The Davos Globalists' 'Great Reset'

by Harley Schlanger

Jan. 29—For those globalist oligarchs who spent four years obsessively focused on removing Donald Trump from the Presidency, the January 20 inauguration of Joe Biden should have been a moment of immense relief. While Trump was prevented from carrying out his plans for a full, decisive break with the strategic orientation of George W. Bush and Barack Obama, largely due to the fabricated Russiagate narrative, he repeatedly interfered with their plans, and his “unpredictability” made him a constant threat to inflict more damage.

Trump’s intention to collaborate closely with President Vladimir Putin and Russia represented a danger to the designs of the British-led imperial forces, to keep the world divided along classic geopolitical lines, while his withdrawal of the U.S. from the Paris Climate Accord and the Trans-Pacific Partnership free trade agreement—a central feature of Obama’s anti-China “Asia Pivot”—disrupted years-long plans for eliminating the ability of sovereign nations to exert control over their economic and trade policies.

Yet, after removing Trump from his role as Commander-in-Chief, the anti-Trump forces have continued to move aggressively to destroy him and the movement which produced seventy-five million votes for him in the 2020 election. Using the pretext of an alleged storming of the Capitol on January 6, Trump was impeached an unprecedented second time, without even a preliminary investigation of what actually occurred, which would have shown that intelligence and security agencies—such as the CIA and FBI—likely had a hand in provoking the deadly events of that day.

Further, a heavy-handed escalation of the “surveillance state” is underway, which includes calls for more aggressive monitoring of “right-wing” groups by passing a new, more extensive “Patriot Act”; censorship of social media platforms by the Big Tech accomplices of

the military-industrial complex; and the designation of Trump supporters as “violent thugs” and “terrorists.” Meanwhile, troops remain stationed in Washington, allegedly to protect the Capitol from those accused of preparing a violent assault during the coming impeachment trial in the U.S. Senate.

In the background is the continuous drone of QAnon-related voices, with their insistent claims that Biden is not the President, that the military has been empowered by Trump to impose martial law by secretly invoking the Insurrection Act, and that Biden, Hillary Clinton, and thousands of others will be arrested and tried before military tribunals, in preparation for his return, in March or April. The Q “interpreters” are calling on Trump’s supporters to continue to “Trust the Plan”—which provides the anti-Trump forces with a justification for an ongoing demonization of his supporters, and a pretext for a more militant crackdown against them.

To step back for a moment, the whole situation bears an eerie resemblance to a Hollywood script, with the United States being turned into a Banana Republic, in which those who fabricated Russiagate and the Ukraine impeachment fiascos are portrayed as the guardians of democracy, protecting the nation against fascist mobs, justifying the use of the tools of a dictatorship to protect a fragile republic. It should lead a sensible citizen to ask, “Why the overkill? What is really going on here?”

The Davos Agenda

The answer begins with the intent of those financial, corporate, and intelligence networks behind Biden to rapidly push ahead the genocidal “Green Agenda,” which had been delayed by the Trump presidency. Within hours of his inauguration, Biden enacted measures and issued numerous Executive Orders that reversed Trump policies—policies that had been imple-

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mented to prevent the further deterioration of the nation into a post-industrial rubbish heap. Biden reinstated the U.S. as a signatory of the anti-growth Paris Climate Accord, cancelled the Keystone XL Pipeline project, signed several other Executive Orders coherent with a Green policy, and signalled his support to Congressional allies to proceed with the anti-growth “Green New Deal,” based on the premise that advances in efficient industrial and agricultural production are the cause of “climate change.”

The global component of this push was an online conference of the World Economic Forum (WEF) of the Davos billionaires, from January 25 to 29, in which corporate leaders from around the world were joined by leading heads of state, to proclaim allegiance to a shift to a “sustainable” energy future. Presented as an emergency policy to prevent devastating climate disasters, based on the false claims that CO₂ emissions threaten human survival, the impetus behind this is a more than fifty-year campaign by neo-Malthusians to reduce the world’s population, using the fraudulent claim that there are “too many” people engaged in a struggle over “too few” resources. Typical of this is the assertion of leading Malthusian Prince Charles, that “Humanity ... has caused immense destruction to the planet that sustains us.”

The problem facing the Davos crowd is that, despite years of Fake Science propaganda blaming human beings for the destruction of Mother Nature—the line pushed by the British monarchy under the leadership of Prince Philip and Prince Charles, and now with the support of leading financial and corporate CEOs—many nations are resisting the demands to transform their economies through the imposition of killer austerity policies and deindustrialization. The devastating COVID-19 pandemic, which was initially seen as creating an impetus to enable a “Just Transition” out of fossil-fuel and nuclear energy sources into “sustainable” sources, has created concern for the WEF’s Founder and Executive Chairman, Klaus Schwab, who expressed his fears that nations will reassert their authority to direct resources to fight the pandemic, instead of submitting to “global governance.”

To counter this potential reassertion of the use of sovereignty to defend lives, the Davos cabal, under the direction of Prince Charles, Schwab, former Bank of England Governor Mark Carney, Sir Michael Bloomberg, and BlackRock CEO Larry Fink, has organized an

extensive network of CEOs of leading private financial and other corporate cartels, to agree to a top-down policy of cutting credit to businesses and enterprises with a “carbon footprint,” while using the credit-generating power of central banks to produce a flood of liquidity to finance the shift to a “green” economy.

While they are bragging about the opportunity created by committing \$30 trillion in capital funds for this transformation, it has not escaped notice that only 0.8% of these funds are being offered to nations in Asia and Eurasia, as these nations remain committed to improving infrastructure—particularly in energy, transportation, and chemistry (e.g., fertilizer production)—to improve the lives of their citizens, which is unacceptable in the dystopian future concocted by the Davos oligarchs.

Opposition Emerges Among Sovereign States

Resistance to the Davos reset was evident in addresses by China’s President Xi Jinping and Russian President Vladimir Putin, both of whom warned that growing economic inequality is a greater danger to humanity than the threat of “climate change” (that is, the threat invented by the Fake Science behind climate change).

In his speech, while stating that China is taking aggressive measures to combat pollution, President Xi insisted that the present crisis calls for advances in science and technology, especially in infrastructure development in the former colonial nations, in which he included modern health care systems as a priority, given the threat from the pandemic.

China is addressing its future energy needs not by returning to mediocrity inefficient “sustainable” systems, such as wind and solar technologies, but by building clean coal plants and nuclear power plants, including nuclear fusion, which are scheduled to provide nearly 100% of China’s power needs in the near future. To meet the needs of growing populations in the developing sector, he insisted that a multilateral approach is required, meaning that the attempt to use funding to blackmail poor nations into accepting a unilateral imposition of austerity through the “sustainable future” demanded by Davos, is unacceptable.

President Putin was more explicit in his warning that there is a danger of war if there is no commitment to real economic development, of the type rejected by Davos. “There is a chance,” he said, “that we will face

a formidable breakdown in global development, which will be fraught with a war of all against all and attempts to deal with contradictions through the appointment of internal and external enemies and the destruction of not only traditional values ... but fundamental freedoms.”

Elaborating on this latter point, Putin explicitly denounced measures employed by “Big Tech” to suppress free speech and free press in some countries—an obvious reference to censorship in the U.S.—while allowing the same platforms to be used for regime-change in other countries, as in the backing for Alexei Navalny’s opposition forces in Russia. He also denounced the great transfer of wealth to 1% of the population, an obvious reference to the financial policies in the trans-Atlantic region, where virtually free money is provided by central banks to speculators, who prosper from the resulting speculative bubbles, while imposing crushing debt on the real economy and poverty on the vast majority of the population.

Given what Xi and Putin presented, as a defense of governments pursuing the sovereign interests of their nations through multilateral dialogue, it is no surprise that those behind Davos are providing funding and logistical support for regime change operations against them, to defend their utopian plans for a world order dominated by global corporatist interests. Excerpts from the speeches of Xi and Putin appear in this issue of *EIR*.

Whither the United States?

It is those same corporate interests that were behind the ouster of Donald Trump, and the drive to crush his movement. That a strong, sovereign U.S.—committed to the scientific and technological development explicit in Trump’s return to a Kennedy-style space program and a robust turn toward a future based on nuclear energy—could join in a cooperative alliance with Russia and China, is the source of the fear that led his enemies to the fraudulent measures employed to crush that potential. It is an alliance of four powers—the U.S., Russia, China, and India—as proposed by American economist and statesman Lyndon LaRouche, which is necessary to realize that potential, and which can mobilize the economic and military power to defeat the modern British Empire, which includes the City of London, Wall Street, and Silicon Valley, the leading forces behind the Davos “Great Reset.”

Which raises the question in the minds of the Malthusian oligarchs, whether Biden will be able to extinguish the desire for economic growth which was sparked by Trump’s moves in that direction. It is unlikely that Americans will embrace a further reduction in living standards, resulting from the Davos demands for a “sustainable future,” as most Americans still retain an optimistic sense that the key to future prosperity is to be found in advances in science and technology applied to physical production, and will reject austerity for the sake of enriching those already wallowing in wealth, if there is an alternative visible.

To provide leadership to that innate set of beliefs, the LaRouche movement is producing a White Paper which will expose the intent of the Davos oligarchs in their desire to reduce the world’s population. The paper will be published by the *Executive Intelligence Review*, complete with charts and graphs to demonstrate the deadly effects of reducing the energy-flux density of power production worldwide, along with a review of the history of the Malthusians and their commitment to population reduction.

Lyndon LaRouche devoted more than fifty years of his life to organizing an opposition to the efforts of the British Empire to stifle economic development and reverse scientific advance. As a result of his emergence as a leader in this fight globally—in which he combined exposure of these nefarious, anti-human operations, with many specific plans for regional and multi-continental development projects—he was targeted by the same forces which later ran the regime-change operations against President Trump, and was slandered and eventually unjustly imprisoned.

This new report will complement an earlier [report](#) published by the LaRouche movement, “The LaRouche Plan to Reopen the U.S. Economy: The World Needs 1.5 Billion New, Productive Jobs.”

With the two reports in hand, those in the U.S. committed to restoring the productive power of the U.S. economy will possess the blueprint that can enable them to join forces with leaders of other sovereign nation states, to crush the genocidal intentions of the Davos establishment, and facilitate a shift into a New Paradigm, in which a multilateral effort to achieve the Common Aims of Mankind defeats those impelled by their Satanic impulses to commit mass murder to defend their bankrupt and collapsing world order.

I. Xi, Putin, LaRouche—New Paradigm

PRESIDENT XI JINPING AT DAVOS

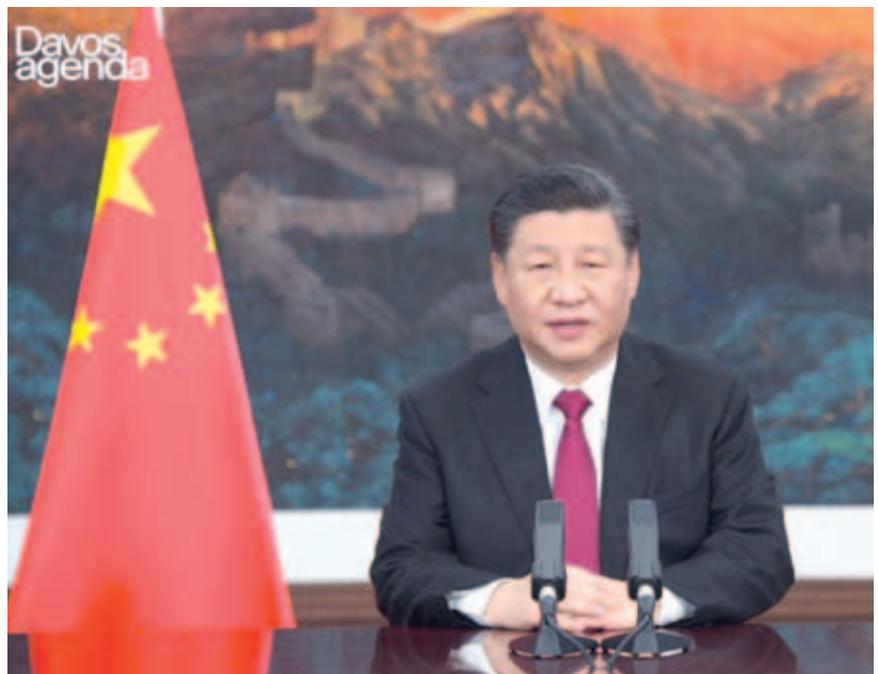
Let the Torch of Multilateralism Light Up Humanity’s Way Forward

This is the first half of the speech presented by Chinese President Xi Jinping to the Davos virtual meeting of the World Economic Forum on January 25, 2021. It is a powerful warning of the disastrous consequences for mankind of the policies implemented by former U.S. Secretary of State Mike Pompeo (although he is not mentioned by name), and by those in both U.S. political parties who contributed to those policies, and which were unfortunately accepted by President Donald Trump, despite his initial embrace of China as a “great nation” and President Xi as “great leader.” Consider this speech with the wise words of U.S. President Franklin D. Roosevelt in mind, as World War II was coming to its end—his words on a vision of peace through development and cooperation. Subheads have been added.

The second half of President Xi’s speech addresses China’s plans for the coming era. The full speech is available [here](#).

Professor Klaus Schwab, Ladies and Gentlemen,
Friends:

The past year was marked by the sudden onslaught of the COVID-19 pandemic. Global public health faced severe threat and the world economy was mired in deep recession. Humanity encountered multiple crises rarely seen in human history.



Xi Jinping, President of China, delivers his Special Address to the Davos Agenda 2021 online meeting of the World Economic Forum, on January 25, 2021.

The past year also bore witness to the enormous resolve and courage of people around the world in battling the deadly coronavirus. Guided by science, reason and a humanitarian spirit, the world has achieved initial progress in fighting COVID-19. That said, the pandemic is far from over. The recent resurgence in COVID cases reminds us that we must carry on the fight. Yet we remain convinced that winter cannot stop the arrival of spring and darkness can never shroud the light of dawn. There is no doubt that humanity will prevail over the virus and emerge even stronger from this disaster.

Four Major Tasks of Our Time

History is moving forward and the world will not go back to what it was in the past. Every choice and move we make today will shape the world of the future. It is important that we properly address the four major tasks facing people of our times.

The first is to step up macroeconomic policy coordination and jointly promote strong, sustainable, balanced and inclusive growth of the world economy.

We are going through the worst recession since the end of World War II. For the first time in history, the economies of all regions have been hit hard at the same time, with global industrial and supply chains clogged and trade and investment down in the doldrums. Despite the trillions of dollars in relief packages worldwide, global recovery is rather shaky and the outlook remains uncertain.

We need to focus on current priorities, and balance COVID response and economic development. Macroeconomic policy support should be stepped up to bring the world economy out of the woods as early as possible.

More importantly, we need to look beyond the horizon and strengthen our will and resolve for change. We need to shift the driving forces and growth models of the global economy and improve its structure, so as to set the course for long-term, sound and steady development of the world economy.

The second is to abandon ideological prejudice and jointly follow a path of peaceful coexistence, mutual benefit and win-win cooperation.

No two leaves in the world are identical, and no histories, cultures or social systems are the same. Each country is unique with its own history, culture and social system, and none is superior to the other. The best criteria are whether a country's history, culture and social system fit its particular situation, enjoy people's support, serve to deliver political stability, social progress and better lives, and contribute to

human progress.

The different histories, cultures and social systems are as old as human societies, and they are the inherent features of human civilization. There will be no human civilization without diversity, and such diversity will continue to exist for as long as we can imagine. Difference in itself is no cause for alarm. What does ring the alarm is arrogance, prejudice and hatred; it is the attempt to impose hierarchy on human civilization or to force one's own history, culture and social system upon others.

The right choice is for countries to pursue peaceful coexistence based on mutual respect and on expanding



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Xi Jinping: "We need to shift the driving forces and growth models of the global economy and improve its structure, so as to set the course for long-term, sound and steady development of the world economy." Shown: A China-funded railway nearing completion in Nigeria, May 7, 2014.

common ground while shelving differences, and to promote exchanges and mutual learning. This is the way to add impetus to the progress of human civilization.

The third is to close the divide between developed and developing countries and jointly bring about growth and prosperity for all.

Today, inequality continues to grow, the North-South gap remains to be bridged, and sustainable development faces severe challenges. As countries grapple with the pandemic, their economic recoveries are following divergent trajectories, and the North-South

gap risks further widening and even perpetuation. For developing countries, they are aspiring for more resources and space for development, and they are calling for stronger representation and voice in global economic governance. We should recognize that with the growth of developing countries, global prosperity and stability will be put on a more solid footing, and developed countries will stand to benefit from such growth. The international community should keep its eyes on the long run, honor its commitment, and provide necessary support to developing countries and safeguard their legitimate development interests. Equal rights, equal opportunities and equal rules should be strengthened, so that all countries will benefit from the opportunities and fruits of development.

The fourth is to come together against global challenges and jointly create a better future for humanity.

In the era of economic globalization, public health emergencies like COVID-19 may very well recur, and global public health governance needs to be enhanced. The Earth is our one and only home. To scale up efforts to address climate change and promote sustainable development bears on the future of humanity. No global problem can be solved by any one country alone. There must be global action, global response and global cooperation.

Conclusion

The opening and closing paragraphs of the concluding half of President Xi's speech, on China's role in the coming era, follow.

After decades of strenuous efforts by the Chinese people, China is on course to finish building a moderately prosperous society in all respects. We have made

historic gains in ending extreme poverty, and have embarked on a new journey toward fully building a modern socialist country.

As China enters a new development stage, we will follow a new development philosophy and foster a new development paradigm with domestic circulation as the mainstay and domestic and international circulations reinforcing each other. China will work with other countries to build an open, inclusive, clean and beautiful world that enjoys lasting peace, universal security, and common prosperity....



CGTN

Xi Jinping: "Public health emergencies like COVID-19 may very well recur. No global problem can be solved by any one country alone. There must be global action, global response and global cooperation."

There is only one Earth and one shared future for humanity. As we cope with the current crisis and endeavor to make a better day for everyone, we need to stand united and work together. We have been shown time and again that to beggar thy neighbor, to go it alone, and to slip into arrogant isolation, will always fail. Let us all join hands and let multilateralism light our way toward a community with a shared future for mankind.

PRESIDENT VLADIMIR PUTIN AT DAVOS

What Should Be Done To Ensure People Everywhere Find Peace and Prosperity

The following are selected portions of the speech by Russian President Vladimir Putin to the Davos virtual meeting of the World Economic Forum on January 27, 2021. President Putin notes that the chaos in the world today is driven by the socio-economic breakdown of the recent decades, exacerbated—but not caused by—the pandemic, and warns that this condition is eerily parallel to that of the 1930s, which led to the disaster of World War II. He argues for development as the necessary path to peace. The title and subheads have been added. The full speech is available [here](#).



kremlin.ru

Vladimir Putin, President of Russia, delivers his Special Address to the Davos Agenda 2021 online meeting of the World Economic Forum, on January 27, 2021.

Mr. Schwab, dear Klaus,
Colleagues,

... The current forum is the first one in the beginning of the third decade of the 21st Century and, naturally, the majority of its topics are devoted to the profound changes that are taking place in the world.

Indeed, it is difficult to overlook the fundamental changes in the global economy, politics, social life, and technology. The coronavirus pandemic, which Klaus just mentioned, which became a serious challenge for humankind, only spurred and accelerated the structural changes, the conditions for which had been created long ago. The pandemic has exacerbated the problems and imbalances that built up in the world before. There is every reason to believe that differences are likely to grow stronger. These trends may appear practically in all areas.

Needless to say, there are no direct parallels in history. However, some experts—and I respect their opinion—compare the current situation to the 1930s. One can agree or disagree, but certain analogies are still suggested by many parameters, including the comprehensive, systemic nature of the challenges

and potential threats.

We are seeing a crisis of the previous models and instruments of economic development. Social stratification is growing stronger both globally and in individual countries. We have spoken about this before as well. But this, in turn, is causing today a sharp polarization of public views, provoking the growth of populism, right- and left-wing radicalism and other extremes, and the exacerbation of domestic political processes including in the leading countries.

All this is inevitably affecting the nature of international relations and is not making them more stable or predictable. International institutions are becoming weaker, regional conflicts are emerging one after another, and the system of global security is deteriorating.

Klaus has mentioned the conversation I had yesterday with the U.S. President on extending the New START. This is, without a doubt, a step in the right direction. Nevertheless, the differences are leading to a downward spiral. As you are aware, the inability and

unwillingness to find substantive solutions to problems like this in the 20th Century led to the World War II catastrophe.

Of course, such a heated global conflict is impossible in principle, I hope. This is what I am pinning my hopes on, because this would be the end of humanity. However, as I have said, the situation could take an unexpected and uncontrollable turn—unless we do something to prevent this. There is a chance that we will face a formidable break-down in global development, which will be fraught with a war of all against all and attempts to deal with contradictions through the appointment of internal and external enemies and the destruction of not only traditional values such as the family, which we hold dear in Russia, but fundamental freedoms such as the right of choice and privacy.

I would like to point out the negative demographic consequences of the ongoing social crisis and the crisis of values, which could result in humanity losing entire civilizational and cultural continents.

We have a shared responsibility to prevent this scenario, which looks like a grim dystopia, and to ensure instead that our development takes a different trajectory—positive, harmonious and creative.

In this context, I would like to speak in more detail about the main challenges which, I believe, the international community is facing.

Socio-Economic Crisis

The first one is socioeconomic. Indeed, judging by the statistics, even despite the deep crises in 2008 and 2020, the last 40 years can be referred to as successful or even super successful for the global economy. Starting from 1980, global per capita GDP has doubled in terms of real purchasing power parity (PPP). This is definitely a positive indicator.

Globalization and domestic growth have led to strong growth in developing countries and lifted over a billion people out of poverty. So, if we take an income level of \$5.50 per person per day (in terms of PPP) then, according to the World Bank, in China, for ex-



CGTN

Vladimir Putin: “Globalization and domestic growth have led to strong growth in developing countries and lifted over a billion people out of poverty. This is definitely China’s success.” Shown: the city of Shanghai today.

ample, the number of people with lower incomes went from 1.1 billion in 1990 down to less than 300 million in recent years. This is definitely China’s success. In Russia, this number went from 64 million people in 1999 to about 5 million now. We believe this is also progress in our country, and in the most important area, by the way.

Still, the main question, the answer to which can, in many respects, provide a clue to today’s problems, is, what was the nature of this global growth and who benefitted from it most?

Of course, as I mentioned earlier, developing countries benefitted a lot from the growing demand for their traditional and even new products. However, this integration into the global economy has resulted in more than just new jobs or greater export earnings. It also had its social costs, including a significant gap in individual incomes.

What about the developed economies where average incomes are much higher? It may sound ironic, but stratification in the developed countries is even deeper. According to the World Bank, 3.6 million people subsisted on incomes of under \$5.50 per day in the United States in 2000, but in 2016 this number grew to 5.6 million people.

Meanwhile, globalization led to a significant increase in the revenue of large multinational, primarily U.S. and European, companies.

By the way, in terms of individual income, the developed economies in Europe show the same trend as

the United States.

But then again, in terms of corporate profits, who got hold of the revenue? The answer is clear: one percent of the population.

And what has happened in the lives of other people? In the past 30 years, in a number of developed countries, the real incomes of over half of the citizens have been stagnating, not growing. Meanwhile, the cost of education and health-care services has gone up. Do you know by how much? Three times.

In other words, millions of people even in wealthy countries have stopped hoping for an increase of their incomes. In the meantime, they are faced with the problem of how to keep themselves and their parents healthy and how to provide their children with a decent education....

[A]ccording to the International Labor Organization (ILO), in 2019, 21 percent, or 267 million young people in the world, did not study or work anywhere. Even among those who had jobs (these are interesting figures), 30 percent had an income below \$3.2 per day in terms of purchasing power parity.

These imbalances in global socioeconomic development are a direct result of the policy pursued in the



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Vladimir Putin: "Millions of people even in wealthy countries ... are faced with the problem of how to keep themselves and their parents healthy and how to provide their children with a decent education."

1980s, which was often vulgar or dogmatic. This policy rested on the so-called Washington Consensus with its unwritten rules, when the priority was given to the economic growth based on private debt, in conditions of deregulation and low taxes on the wealthy and the corporations.

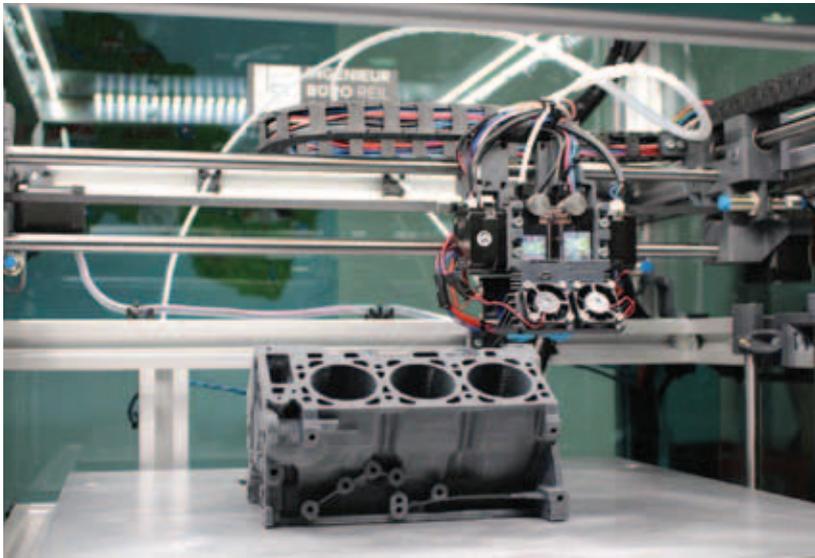
As I have already mentioned, the coronavirus pandemic has only exacerbated these problems. In the last year, the global economy sustained its biggest decline since World War II. By July, the labor market had lost almost 500 million jobs. Yes, half of them were restored by the end of the year, but still almost 250 million jobs were lost. This is a big and very alarming figure. In the first nine months of the past year alone, the losses of earnings amounted to \$3.5 trillion. This figure is going up and, hence, social tension is on the rise.

At the same time, post-crisis recovery is not simple at all. If some 20 or 30 years ago, we solved the problem through stimulating macro-economic policies (incidentally, this is still being done), today such mechanisms have reached their limits and are no longer effective.



Pixabay/AhmadArdity

Vladimir Putin: "The key question is how to build a program of actions in order to not only quickly restore the global and national economies affected by the pandemic, but to ensure that this recovery is sustainable in the long run, relies on a high-quality structure, and helps overcome the burden of social imbalances."



Pixabay

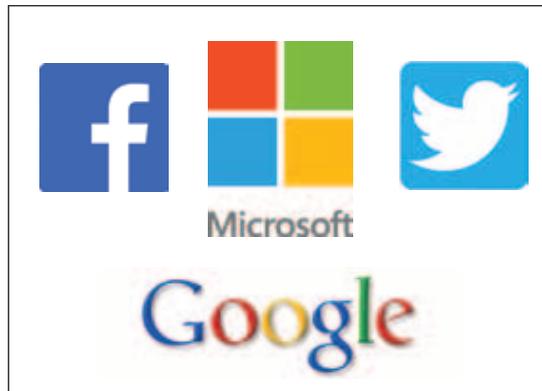
Vladimir Putin: “Hopes to reboot the old growth model are connected with rapid technological development. During the past 20 years we have created a foundation for the so-called Fourth Industrial Revolution based on the wide use of AI, automation, and robotics.” Shown: an additive printer at work.

This resource has outlived its usefulness. This is not an unsubstantiated personal conclusion.

According to the IMF, the aggregate sovereign and private debt level has approached 200 percent of global GDP, and has even exceeded 300 percent of national GDP in some countries. At the same time, interest rates in developed market economies are kept at almost zero and are at a historic low in emerging market economies.

Taken together, this makes economic stimulation with traditional methods, through an increase in private loans, virtually impossible. The so-called Quantitative Easing is only increasing the bubble in the value of financial assets and deepening the social divide. The widening gap between the real and virtual economies (incidentally, representatives of the real economy sector from many countries have told me about this on numerous occasions, and I believe that the business representatives attending this meeting will agree with me) presents a very real threat and is fraught with serious and unpredictable shocks.

Hopes that it will be possible to reboot the old growth model are connected with rapid technological



development. The rise of economic problems and inequality is splitting society, triggering social, racial and ethnic intolerance. Indicatively, these tensions are bursting out even in the countries with seemingly civil and democratic institutions that are designed to alleviate and stop such phenomena and excesses.

The systemic socioeconomic problems are evoking such social discontent that they require special attention and real solutions. The dangerous illusion that they may be ignored or pushed into the corner is fraught with serious consequences.

In this case, society will still be divided politically and socially. This is bound to happen because people are dissatisfied, not by some abstract issues but by real problems that concern everyone regardless of the political views that people have or think they have. Meanwhile, real problems evoke discontent.

I would like to emphasize one more important point. Modern technological giants, especially digital companies, have started playing an increasing role in the life of society. Much is being said about this now, especially regarding the events that took place during

development. Indeed, during the past 20 years we have created a foundation for the so-called Fourth Industrial Revolution based on the wide use of AI [artificial intelligence] and automation and robotics. The coronavirus pandemic has greatly accelerated such projects and their implementation.

However, this process is leading to new structural changes; I am thinking in particular of the labor market. This means that very many people could lose their jobs unless the state takes effective measures to prevent this. Most of these people are from the so-called middle class, which is the basis of any modern society.

Socio-Political Crisis

In this context, I would like to mention the second fundamental challenge of the forthcoming decade—the socio-political one.

the election campaign in the U.S. They are not just some economic giants. In some areas, they are de facto competing with states. Their audiences consist of billions of users that pass a considerable part of their lives in these eco systems.

In the opinion of these companies, their monopoly is optimal for organizing technological and business processes. Maybe so, but society is wondering whether such monopolism meets public interests. Where is the border between successful global business, in-demand services and big data consolidation, and the attempts to manage society at one's own discretion and in a tough manner, replace legal democratic institutions, and essentially usurp or restrict the natural right of people to decide for themselves how to live, what to choose, and what position to express freely? We have just seen all of these phenomena in the U.S. and everyone understands what I am talking about now. I am confident that the overwhelming majority of people share this position, including the participants in the current event.

International Crisis

And finally, the third challenge, or rather, a clear threat that we may well run into in the coming decade, is the further exacerbation of many international problems. After all, unresolved and mounting internal socioeconomic problems may push people to look for someone to blame for all their troubles and to redirect their irritation and discontent. We can already see this. We feel that the degree of foreign policy propaganda rhetoric is growing.

We can expect the nature of practical actions to also become more aggressive, including pressure on the countries that do not agree with a role of obedient controlled satellites, use of trade barriers, illegitimate sanctions and restrictions in the financial, technological and cyber spheres.

Such a game with no rules critically increases the risk of unilateral use of military force. The use of force under a far-fetched pretext is what this danger is all about. This multiplies the likelihood of new hot spots flaring up on our planet. This concerns us.

Colleagues,

Despite this tangle of differences and challenges, we certainly should keep a positive outlook on the future and remain committed to a constructive agenda. It would be naive to come up with universal miraculous recipes for resolving the above problems. But we cer-

tainly need to try to work out common approaches, bring our positions as close as possible, and identify sources that generate global tensions.

Once again, I want to emphasize my thesis that accumulated socioeconomic problems are the fundamental reason for unstable global growth.

So, the key question today is how to build a program of actions in order to not only quickly restore the global and national economies affected by the pandemic, but to ensure that this recovery is sustainable in the long run, relies on a high-quality structure and helps overcome the burden of social imbalances. Clearly, with the above restrictions and macroeconomic policy in mind, economic growth will largely rely on fiscal incentives with state budgets and central banks playing the key role.

Actually, we can see these kinds of trends in the developed countries and also in some developing economies as well. An increasing role of the state in the socioeconomic sphere at the national level obviously implies greater responsibility and close interstate interaction when it comes to issues on the global agenda.

Calls for inclusive growth and for creating decent standards of living for everyone are regularly made at various international forums. This is how it should be, and this is an absolutely correct view of our joint efforts.

It is clear that the world cannot continue creating an economy that will only benefit a million people, or even the golden billion. This is a destructive precept. This model is unbalanced by default. The recent developments, including migration crises, have reaffirmed this once again.

We must now proceed from stating facts to action, investing our efforts and resources into reducing social inequality in individual countries and into gradually balancing the economic development standards of different countries and regions in the world. This would put an end to migration crises.

The essence and focus of this policy, aimed at ensuring sustainable and harmonious development, are clear. They imply the creation of new opportunities for everyone, conditions under which everyone will be able to develop and realize their potential regardless of where they were born and where they are living.

[President Putin then outlines the fundamental needs which must be met for all citizens of the world in

order to prevent the threatening disaster and launch a new paradigm: decent living conditions; adequate employment for all; adequate health care; and decent education for all children.]

A Multipolar World

Obviously, the era linked with attempts to build a centralized and unipolar world order has ended. To be honest, this era did not even begin. A mere attempt was made in this direction, but this, too, is now history. The essence of this monopoly ran counter to our civilization's cultural and historical diversity.

The reality is such that really different development centers with their distinctive models, political systems and public institutions have taken shape in the world. Today, it is very important to create mechanisms for harmonizing their interests to prevent the diversity and natural competition of the development poles from triggering anarchy and a series of protracted conflicts.

To achieve this we must, in part, consolidate and develop universal institutions that bear special responsibility for ensuring stability and security in the world and for formulating and defining the rules of conduct both in the global economy and trade.

I have mentioned more than once that many of these institutions are not going through the best of times. We have been bringing this up at various summits. Of course, these institutions were established in a different era. This is clear. Probably, they even find it difficult to parry modern challenges for objective reasons. However, I would like to emphasize that this is not an excuse to give up on them without offering anything in exchange, all the more so since these structures have unique experience of work and a huge but largely untapped potential. And it certainly needs to be carefully adapted to modern realities. It is too early to dump it in the dustbin of history. It is essential to work with it and to use it.

[President Putin then reviews three cases in which international cooperation has led to a very positive



Vladimir Putin: "The era linked with attempts to build a centralized and unipolar world order has ended." Shown: Leaders of the guarantor states of the Astana process for a peace settlement in Syria, September 16, 2019 in Ankara, Turkey. Left to right: Hassan Rouhani, President of Iran; Recep Tayyip Erdoğan, President of Turkey; and Vladimir Putin, President of Russia.

result: Russia's recent cooperation with Azerbaijan and Armenia, to end their military conflict through development projects to reopen transportation corridors closed for over 30 years; cooperation among Russia, Turkey, and Iran to stabilize the situation in Syria (the Astana process); and cooperation among Russia, Saudi Arabia, and the U.S. to stabilize the global energy markets. He concludes his speech as follows:]

We all know that competition and rivalry between countries in world history never stopped, do not stop and will never stop. Differences and a clash of interests are also natural for such a complicated body as human civilization. However, in critical times this did not prevent it from pooling its efforts—on the contrary, it united in the most important destinies of humankind. I believe this is the period we are going through today.

It is very important to honestly assess the situation, to concentrate on real rather than artificial global problems, on removing the imbalances that are critical for the entire international community. I am sure that in this way we will be able to achieve success and befittingly parry the challenges of the third decade of the 21st Century.

November 18, 2009

Agreement Among Four Powers Can Avert Total Collapse

by Lyndon H. LaRouche, Jr.

Remarks of Lyndon LaRouche to the “Save Human Dignity for the Sake of Mankind” conference held in Moscow, Russia on Dec. 3-4, 2009. The remarks were recorded Nov. 18, 2009. First published in EIR in Vol. 36, No. 48, Dec. 11, 2009, and reprinted in the June 14, 2019 issue.

Greetings!

Since the developments of this summer, there’s been a great change in the situation in the world at large. Following the period of the Rhodes conference,¹ we had the effects of the negotiations between China’s President and Russia’s President, setting the terms which were later followed up on, with Prime Minister Vladimir Putin in the new agreement with China on the development, the shared development, of Siberia.

This has made a fundamental change in the direction of history—this development, and its consequences. Now, the world has shifted from the former domination by the Atlantic Ocean, as the relationship between Europe and the Americas; and now, between the United States, and the Americas, across the Pacific, into the Indian Ocean, with the nations of Asia, and touching Africa.

This means that the great area of development in Siberia, especially in northern and eastern Siberia, is now opened for its realization: that the cooperation between China and Russia, in the development of this area of Siberia, has produced a fundamental change in the strategic orientation of the planet as a whole. And, hopefully, this is a more or less permanent change for generations yet to come.

What we have on our hands, are the vast resources

1. See *EIR* Vol. 36, No. 41, Oct. 23, 2009 for Lyndon LaRouche’s Oct. 10 [address](#), “A Four-Power Agreement Can Create a New World Credit System,” to the Seventh Annual Session of the World Public Forum Dialogue of Civilizations (Oct. 8-12), held on the island of Rhodes, Greece.



www.government.ru

Russian Prime Minister Vladimir Putin and Chinese Prime Minister Wen Jiabao in Beijing on Oct. 13, 2009. Their agreements to jointly develop neighboring regions, including eastern Siberia, have shifted the world’s focus to the Pacific.

of countries such as Mongolia, and Russia—in Siberia, northern Siberia. This is a development which affects the populations of Africa, particularly on the Indian Ocean coast. It affects India, Southeast Asia, China, and Russia. It means that there’s a change in world history from a trans-Atlantic orientation of modern civilization, which has been the case, essentially, since Christopher Columbus, to a new period, where the relationship of the United States, across the Pacific, to Asia and also to the coast of Africa, and to Australia, will be the dominant feature.

Especially in Asia, we have large populations. Russia, for example, has not a large population, comparable to the scale of China or India, but it has a very special role, with the territory of Siberia. China and India: China, 1.4 billion people; India, 1.1 billion

people; the comparably large populations of Indonesia, and so forth. This means that the combination of the realization of the development of the raw materials potential, and production potential, in Siberia, is now being combined with the large populations typified by those of China and India; to combine raw materials and the labor force together, not to loot a territory of its raw materials, but to develop that territory, and to develop the peoples participating in the development of that territory.

This is the new world economy, if we escape the dangers that exist now. And we have to shift our thinking to that.

We also have to shift our thinking to something else.

A Trans-Pacific Orientation

The future of mankind, even though it's some generations distant, now, depends upon the development of the colonization of the Moon, as a manufacturing center for building pieces of equipment which will convey man to the colonization of Mars. This will be a fundamental change in the character of the apparent human destiny, over this period of time. And this program, which is now agreed upon, so far, by Russia and China, will be the starting point.

Those in the United States who know their history, who know their strategic history, realize this is a fundamental change. The world is now going to have a trans-Pacific orientation, as opposed to a trans-Atlantic orientation. And that will be for a long time to come. Because combining the populations, which are numerous, but underdeveloped, with a process of development of the raw-materials areas of Siberia and related places, is the solution for the present world problem. And we should look at these things in that way.

We also have to look ahead to Mars, the Mars colonization, which this will help to make possible. It will be several generations distant, before we do that. There are numerous problems, scientific problems, that have to be overcome, not so much in getting to Mars—we already know how to get to Mars—but to get men and

women safely to Mars, and back, there are some problems that have to be worked out, on that one.

So, therefore, this will be the character of the coming period of history, provided we get through the present crisis.

But, there are certain parts of the world, which are not willing to accept this. The British Empire, for example. (Australia—yes, Australia will tend to be very much interested in this. Australia has resources, such as large quantities of thorium and uranium, and these resources will be very useful, not only for Australia, but for its neighbors. Thorium nuclear reactors are a very



After the expanded meeting of the SCO Council of Heads of State in Uzbekistan, June 23-24, 2016, Russian President Vladimir Putin (center) is seen with China President Xi Jinping (on Putin's left) and President of Uzbekistan Islam Karimov (left).

kremlin.ru

special feature of a development program during this period, and for support of this.) But, in general, you're going to have opposition from what we call the British Empire, which is not the empire of the British people; it's an empire which is based on London and the British interests, which is international. It's the international monetarist system.

And what we're going into, with this reform, with the Russia-China agreement, is the inception of an alternative to a monetarist system: a shift to a credit system. That is, instead of having an international currency, which exerts imperial power, authority over the power of nation-states, and over their economy; instead of a globalized system, we'll have a system of sovereign nation-states, in cooperation through their credit systems in the development of the planet. That's the di-



FDR Library

In our Constitutional system, we believe, not in monetarism, but in a credit system, as was the case with President Franklin Roosevelt, shown here at the Boulder Dam, 1935.

rection we should be going in. That's what my purpose is in this.

However, in order to meet that mission—the mission not merely of starting this development, which the Russia-China cooperation begins, including Russia-China-India and other countries—we have to develop the science and technology which goes together with a Mars orientation.

The Moon-Mars Mission

Mankind is creative, instinctively. No animal is creative. Only mankind, only the human mind is creative. Living processes are creative; life is creative. But it's not consciously creative. Even the inanimate world, so-called, is creative. The evolution of the stars, the evolution of stellar systems is a creative process. But the difference is: Man, individually, is creative. And it's the willful creativity by Man, which is going to shape the future of the Solar System, and beyond.

We're looking to that. In order to realize the objectives which stand before us now, we have to give mankind a new mission—mankind as a whole. The mission is typified by the idea of the Mars colonization. This requires us to make the kinds of changes, in terms of scientific progress, which are needed for mankind's future existence.

We have many problems on this planet. And we can not solve those problems, extensively, without going into a development of the Solar System as a habitat of

mankind. We're on the edge of doing that, scientifically. There are many scientific discoveries, yet to be made, which will make it possible to act for man's colonization of Mars. That will be in some time to come. But we need to act now: We need the intention of accomplishing the Mars colonization. We need to educate and develop generations of young people, who will be oriented to that kind of mission. In the coming period, we will have the birth of young people, who will be part of the colonization of Mars, in one way or the other, before this century is out.

We need to give mankind a sense of purpose, developmental purpose, not only throughout the planet, but through the influence of Earth on the adjoining regions of the Solar System, and beyond.

Those objectives are feasible. There are, admittedly, many problems to be solved, scientific problems, which are not yet resolved. We have many questions. But, essentially, we know this is feasible. We know this should be feasible within two or three generations. What we have to do, is give to people, who will be the grandchildren, born now, to give them something to realize. When we're dead and gone, they will be there, three generations from now, four generations from now. They will be the people who actually colonize areas beyond Earth itself. We need to give them the opportunity to do so. We need to give society, in the meantime, the mission-orientation of achieving that colonization, for our descendants, three generations or so down the line.

The End of the British Empire

So, now we have a new situation. The old imperial system—and, some people may disagree with this, but there's only one empire on this planet. It's the British Empire. It's not the empire of the British people; it's the empire of an international monetarist system. And it's the monetarist system, which is the empire.

The advantage of the United States in this, is that the United States is not a monetarist nation. We do not believe, in our Constitutional system, in monetarism. We believe in a credit system. It is a feature of our Constitution, which is lacking in Europe. And our crucial role, as was the case with Franklin Roosevelt, our crucial role in society, is to promote this kind of change, away from a monetarist system, which is the true form of imperialism. Many people talk about imperialism; they

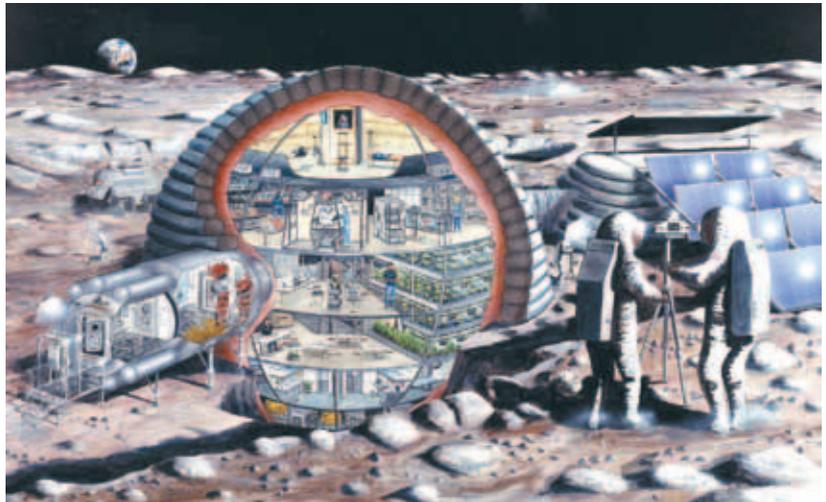
use the label for many things. Mostly, it's nonsense, scientifically. There's only one kind of imperialism we've known, in European experience during the past 3,000 years, and that is monetarism, as such. And that's what we have to destroy.

Yes, there is a British domination of the planet, controlling the monetary system, as such, in the tradition of Keynes, and so forth. We have to eliminate that. But, we have to replace it with something, and this means going to a credit system, like that of the United States under Franklin Roosevelt, in which each nation's credit system is sovereign. And you have cooperation, on a fixed exchange rate, among sovereign economies. We can cooperate in long-term creation of credit, for the fulfillment of these kinds of projects, which the present treaty-agreement between Russia and China signifies. That's what I'm committed to. I'm looking forward to it.

And I think that we, who are conscious of these goals, of these kinds of goals, we wish to defend the sovereignty of cultures, the sovereignty of nation-states. We wish a system of cooperation among sovereign nation-states, for common ends, without tampering with the culture of the respective nations.

We need to have a conception, a task-oriented conception, of the goals toward which we're aimed, in the future—two or three generations. We have to have a conception of what are the steps we must take now, to realize those goals, three generations ahead.

And I think we have the potential for doing that, just now: what's happened between China and Russia, which is not going to stop there. It's oriented toward bringing India in more fully. It's going to mean trying to



NASA

An artist's cutaway depiction of an inflatable lunar habitat, spacious enough for comfortable living, and for housing laboratories and food-growing capabilities.



NASA

Artist's depiction of humans exploring near a base on Mars.

create a situation in which India cooperates with Pakistan, in defending themselves, both, against what's coming out of Afghanistan from European sources, in terms of drug-trafficking and so forth.

There are many challenges of that type. But we can achieve that. We can achieve that, provided we come to extend what has been agreed between China and Russia, extend that on a broader scale, as the beginning of a Pacific-oriented development of the planet as a whole. And at the same time, with a mission orientation toward the development of an industrial base

on the Moon, which is indispensable for the task of the colonization of Mars.

And when mankind has reached the point, that we have developed the launching of the colonization of Mars, and know it's going to work, then mankind has gone to an entirely new phase of its existence. We are no longer Earthlings. We are now people of the Universe or, as they say in Russia, the Cosmos.

II. Stop the ‘Great Reset’

Why the Green Deal, the ‘Great Reset,’ Must Be Resisted, Stopped, Replaced

by Paul Gallagher

Jan. 28—*Executive Intelligence Review* and the Schiller Institute will release a White Paper in February, for mass circulation in several forms, including a popular pamphlet and Internet videos, to discredit and catalyze enough resistance to the “Green Deal” to stop its implementation, which will otherwise multiply the effects of the pandemic to cause many, many millions of unnecessary deaths. The White Paper will build on *EIR*’s [Spe-](#)

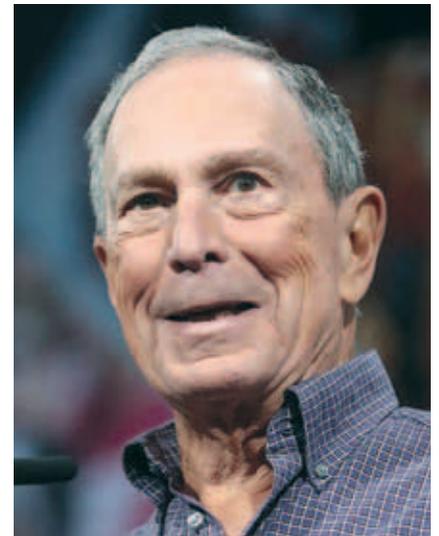
etc., which were worse than useless in such a human crisis. We proposed real productive project employment of hundreds of millions of people in, first, medical care infrastructure creation in a two-year crash program, and great projects of productive infrastructure worldwide over the generation to 2045. The two bar graphs near the end of this article are from one section of that report, showing the impact on the United States



WEF



WEF/Pascal Bitz



Gage Skidmore

The three horsemen of the “green finance” assault: Prince Charles of Britain, a true son of his people-hating father Prince Philip; Mark Carney, world’s most influential central banker of the past decade; and Sir Michael Bloomberg, deca-billionaire Wall Streeter now resident in London.

[cial Report](#) of May 2020, titled in short, *The World Needs 1.5 Billion New, Productive Jobs*.

In the first crisis of the pandemic—with the UN’s International Labor Organization reporting that many hundreds of millions of “informal workers” worldwide had lost their work and faced very precarious circumstances—we already sought to counterpose an alternative to the constant “Green Deal” promises of “zero carbon dates of 2050,” or “zero net emissions by 2050,”

labor force, and on that of the world.

The worst economic problem posed by the Green Deal is one of ideology and anti-Eurasia geopolitics; only secondary are the inferior and economically very dangerous throwback energy technologies it insists on subsidizing and installing.

The ideology proceeds from the British Royal Family. Princes Philip and Charles, with Philip’s aide Maurice Strong, organized the 1992 Rio Summit, the

first of the “Earth summits” that we have seen ever since. The first “Green New Deal” organization in the world was a group not elected by anybody, launched in 2008 by Prince Charles and his long-time advisor and co-author Tony Juniper of Friends of the Earth, in order to promote a Green agenda. This team wrote the UK Climate Change Act of 2008, which included a carbon tax. The UK government of Tony Blair already had a Secretary of Sustainable Development and a Financial Disclosure Project.

Prince Charles, as sponsor, and the City of London Corporation, as host, have been holding international “Green Horizon” meetings since at least 2005, whose aim was to persuade large funds—mutual and pension funds, for example—to exert their influence on corporations against fossil fuel investments and holdings. Mark Carney, the leader of all central bank “green finance” and “carbon disclosure” committees of the past decade, has been a close advisor and collaborator of Prince Charles since becoming Bank of England Governor in 2012: Carney is a member of the Royal Order of the Garter, quite a rarity for a non-Briton (he is Canadian).

This means that the underlying ideology of the Green Deal is that of the British Royal Family over the entire period since World War II, which is one of shrinking the human population. This has gone through many forms over that time, all of which have in common the *removal from human productive use* of either large amounts of the Earth’s area—nature parks, conservation abatements, etc.—or certain substances—DDT, chlorofluorocarbons, a constantly growing list of pesticides and fertilizers—or certain technologies in the area of energy production in particular. From Bertrand Russell to Richard Attenborough, one generation of British “leading scientists and intellectuals” after another has become famous and greatly celebrated in the UK for attacking the human species’ multiplication and use of the created universe, as degrading, toxic, tragic, and fatal to the planet.

Nor are these merely the origins of the Green Deal earlier in this century. The international conferences held since the 2015 Paris Climate Accord to round up powerful financial support for the strategy of starving fossil fuel and fertilizer producers of investment, have been the World Economic Forum (WEF) conferences and the “Green Horizon Summits.” More behind the scenes are the central bankers’ committees: The Task-

force on Climate-Related Financial Disclosures (TCFD), the Green Finance Institute, and the Network of Central Banks and Supervisors for Greening the Financial System. The most powerful of these has been the TCFD, since it includes both major central banks and big private banks, 34 at last count.

The planning and direction of these conferences and committees are dominated by a group of “intellectual leaders”: Prince Charles; Mark Carney, who has held so many top central banking positions since 2008 that he has clearly been the world’s most influential central banker; Sir Michael Bloomberg, the Wall Street billionaire who lives in London and trades controlling “climate change” positions at the UN and in the banking world with Mark Carney; and Klaus Schwab, another close friend and collaborator of the Prince who runs the World Economic Forum events (the “Davos Conference”) and churns out books about the “zero carbon” goal and the advent of “year zero.”

In the last two years they have been joined in these “enforcement” operations by IMF Managing Director Kristalina Georgieva and European Central Bank President Christine Lagarde; and in the past year, by Wall Street’s biggest fund manager, BlackRock Inc., and by ministers of the Boris Johnson government in the UK.

For this January’s World Economic Forum, Prince Charles released a manifesto he called the “Terra Carta,” in other words a charter of rights of the Earth against the human race considered to be its despoiler. This is a fraud against the common man; it no more benefits him than did the original Magna Carta, very much a document of, by, and for the barons and princes, despite later fraudulent claims. This modern Prince makes clear that the common man, in all his numbers, is a problem for the Prince and his friend the Planet: “Humanity ... has caused immense destruction to the planet that sustains us.”

Thus the speechwriters’ terms like “renewal,” “sustainability,” and “resilience” are window dressing. The ideology underlying the Green Deal is that motivating the British Royal Family for many decades: Reduce the “burden” of the human population upon the Earth. Reduce the technological power of the human species by lowering the energy-flux density of the technologies used for electricity, heating, transportation, chemistry. Reduce the human race itself.

Also important to note in this document, is that Prince Charles positively counts on the *weakness* of governments amidst the current crisis: The ability of private banks and funds to *execute* the Green Deal policy—by selectively assigning and withholding investment—is far more important, he says, than what governments do. What are needed from governments are big taxes on carbon, to raise the price of CO₂ to \$100/ton or more.

In the ongoing WEF conference, on January 27, BlackRock, Inc. Vice President Philipp Hildebrand spoke during the panel, “Financing the Zero Option.” He called for mobilizing “\$3 to \$6-7 trillion per year, for many, many years to come”; and added, “we desperately need the mobilization of private capital, and the way that can happen—and this has been mentioned by the commissioner—we need a global standard, that allows capital to respond to the public policy incentives and start mobilizing these enormous sums of money we will need to fund the transition to net zero.”

War on Asia

What’s more, the actions taken to shut down fossil fuel- and carbon-related investments and economic activities, since the 2015 United Nations Climate Change Conference, in Paris, have been taken overwhelmingly by major central banks of Europe—now, after a long delay, joined by the U.S. Federal Reserve—and by the largest private banks and investment funds. Governments may make various pledges related to the Paris Accords targets for CO₂ emissions, but big finance is applying the coercive force. Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, elaborates on Charles’ above-cited comment in his just-published book, *COVID-19: The Great Reset*.

Schwab says the Green Deal masters are taking their cue from seeing governments overwhelmed by the COVID-19 pandemic, and thus not interfering with what private finance and central bank regulation are doing. Schwab fears that governments may succeed in ending the pandemic sooner than expected, and reassert their powers regarding economic activity, thus setting

back the “Great Reset.” (See a [review](#) of Schwab’s book by Andrea Andromidas, in *EIR*, January 29, 2021.)

What generated the term “Great Reset” for the same old Green Deal, is the COVID-19 pandemic. More specifically the propaganda idea, that since so many European, North and South American, African, and some Eurasian governments have been unable to check the pandemic for several reasons, governments are now prostrate and their powers to regulate and spend can be taken over by central banks and private megabanks, which have been “successful” in maintaining the financial markets during the crisis.

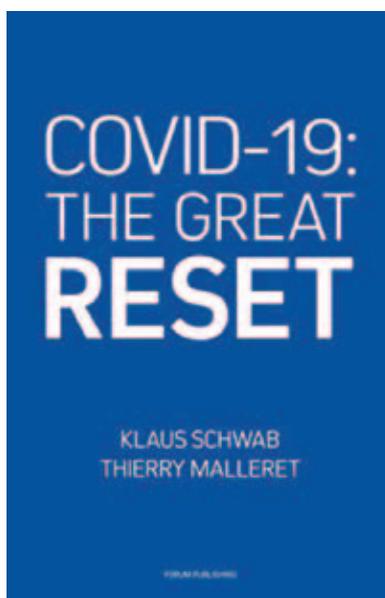
Even more characteristic of the Green Deal is its feature as a war on Asia and Eurasia, by London and European finance. The World Economic Forum put out a promotional release for its conference this week, which claimed that a huge \$30 trillion in capital funds around the world are committed to “green finance”; that is, to preventing investment in fossil fuels or nuclear power. These funds supposedly will only invest for environmental, social, and governance purposes.

But they admitted: Just 0.8% of this “green finance” capital was in Asia!

Capital in many Asian and Eurasian nations, and invested abroad from their banking systems—most notably that of China, but not at all

uniquely—continues to be invested in new coal and oil projects and “clean coal” power; and essentially all additions to the world’s nuclear power fleet since 2016 are coming in Asia. We will see below that the world’s biggest fund manager, Wall Street’s BlackRock, Inc., has struck at Korea’s KEPCO and thereby at coal power projects in both Southeast Asia and Africa.

At the WEF Davos conference on January 27, the CEO of the UK’s Standard Chartered Bank, William Winters, followed BlackRock’s Hildebrand and complained that in this “\$50 trillion opportunity,” Asia and the developing sector are not participating. Winters claimed Europe and U.S. institutions have committed 80% of the needed capital, the rest of the world less than 10% of what the “Green Deal” masters think necessary.



What It Means to Shut Down Coal

The incoming Biden Administration has a policy of prohibiting any new power production with coal. The new Secretary of State, Antony Blinken, denounced coal-power plants during his confirmation testimony, while blaming their construction on China. “We are not going to allow foreign investment in dirty technologies,” Blinken told the U.S. Senate, specifically referring to China’s projects building coal-fired power plants in Belt and Road nations.

With shock, the South African government learned late in 2020 that its new coal-power projects are cancelled, and it is under pressure to close down, in this decade, many of the coal-power plants which provide the lion’s share of electric power to the entire country. The world’s biggest fund management company, Wall Street’s BlackRock, Inc., pressured South Korea’s leading power engineering company KEPCO, which was building the South African power complexes, to abandon them.

Following this shock, the new CEO of the South African national power utility ESKOM (Electricity Supply Commission), under the same pressure, announced that South Africa would close one-third to one-half of its coal-fired plants by 2030—15-20 Gigawatts. This is 30% or more of its total electric power capacity, in a nation that suffers chronic local and regional blackouts! During 2020, the Ministry of Mineral Resources and Energy had discussed requesting proposals for up to 12.5 gigawatts (GW) capacity in small modular nuclear reactors; but this idea is nowhere near realization or financing. Pathetically, ESKOM is on record as proposing to replace the coal power with wind and solar.

BlackRock CEO Larry Fink released a letter to corporate CEOs, timed with the World Economic Forum summit: “More and more people understand that climate risk is investment risk,” he wrote. “When finance really understands a problem, we take that future problem and bring it forward. That’s what we saw in 2020 ...” In other words, what the public is told is the risk of future effects of climate change, is actually made by



CC/JMK

The coal-fired Kusile Power Station, under construction by Eskom, the state electricity utility, in western Mpumalanga, South Africa in 2019.

huge funds like BlackRock into the *immediate* risk of denial of investment.

Other projects in Indonesia and the Philippines came under the same threat of BlackRock, Inc. to KEPCO. A very large coal-power project in the Philippines was cancelled at the start of this year; as in South Africa, a government minister then announced plans to shut down some existing coal-fired electric capacity. In Kenya, financing disappeared for development of an oil reserve which is the key to a “northern corridor”—a new port and railroad crossing the north of the country and connecting it to its neighbors. The President of Ghana has come under intense pressure to drop plans for a nuclear complex which is meant to be the nation’s development centerpiece.

Returning to the example of South Africa, it is a nation twice the size of the U.S. state of Texas, and with a comparable population density, but only half the electric power generation capacity. Just as overpriced projects of giant wind farms in the windiest parts of West Texas, with new 750-mile transmission lines to bring the power to the Gulf Coast, have been abandoned more than once, so any similar idea for South Africa is an expensive folly and would leave a completely unreliable electric grid even if it could be done.

Worse, electricity use *per capita* in South Africa has been dropping since 2008 and is now (2019) 3,800 KWh/year, less than half of the European level and

1,000 KWh/year less than in 1997 according to the International Energy Agency (IEA). The country's hospital systems are, in some regions, overwhelmed already by the COVID-19 pandemic and subject to electricity unreliability. If this drop is extended and worsened by attempting to cut down the overwhelmingly dominant electricity source, reduction of the population will be a fact.

Dr. Kelvin Kemm, CEO of Stratek CC and former Board Chairman of the South African Nuclear Energy Corporation, made clear in his presentation September 6, 2020 to a Schiller Institute webinar that nuclear plants must be built along South Africa's Indian and Atlantic Ocean coasts and smaller, fourth-generation plants in the large interior and the more industrial north, so that both industrial and residential power is produced reasonably near where it is needed. Meanwhile, coal power must be kept operating and expanded, he said.

In London, the government and the Grantham Institute just last week arrogantly announced offers of \$1 billion for all of Africa and India, as compensation for shutting down coal and oil power! The Institute's head, Jeremy Grantham, is an avowed, extreme follower of Thomas Malthus' discredited theories; but its seminar at the London School of Economics to promote what it calls the "Just Transition" for Africa and India, drew many other British quangos and think-tanks.

In the United States, half of all the coal-power plants have been closed in the last five years by BlackRock's and Sir Michael Bloomberg's "Beyond Coal" drive, in spite of President Donald Trump.

In Germany or the United States, the continued imposition of a "Green New Deal" means tremendous price increases for electric power, industrial chaos, blackouts.... But in Africa, India or any developing nation, it means population reduction by millions of unnecessary deaths.

It is very striking, then, that China plans for half of its electric power still to be coming from coal in 2050—with much of the other half nuclear—and that Chinese financial institutions are funding three-quarters of the coal-power projects still underway in developing countries.

As noted, half the coal-power plants in the United States have already been shut down in the past five years. While the larger and more modern ones remain on line, rated coal-electric generating capacity has fallen by half from about 2 million megawatts to about

1 million. Coal electric power generation fell by 25% in the United States in 2020 alone. This was not a function of lower economic activity under the pandemic. Wind and solar-power generation *rose* by 12% in the same time; natural gas turbine generation by 9%; while nuclear power generation fell by 2.5%. The U.S. Energy Information Administration (EIA) says that total electricity use in the United States in 2020 was approximately 7% less than two years earlier, and will remain at that depressed level in 2021. Since coal was slightly above 20% of electric power generation in 2020, the drop in coal power almost entirely accounted for the drop in power overall. The two will continue together.

Neither solar- and wind-power capacity, nor the cycling gas turbine generation capacity necessary to back it up, are being or can be put on line in the United States as rapidly as coal-power capacity is being taken off. Nuclear power capacity is slowly shrinking at the same time. According to the EIA, total electricity consumption in the United States dropped in seven of the thirteen years from 2007 to 2019, including 3% in 2019, and then the above-cited 7% drop in 2020. *Per capita* electricity generation and use has fallen since 2009 from 14 MWh to 11.5 MWh, a huge 17% drop, which was accelerating in 2019 and 2020. Industrial electricity use *per capita* has dropped by 25% during that decade-plus, from just under 4 MWh to just under 3 MWh per year.

Thus despite some relatively small upward fluctuations in U.S. industrial employment in 2014-15 and 2018-19, an American industrial recovery has not occurred and is impossible under conditions of falling total, and sharply falling industrial electricity generation *per capita* and even in absolute terms.

Industry will be doomed in the attempt to carry out the Green Deal and the attempt will ruin electricity grids across the country. The Bernie Sanders wing of the U.S. Democratic party shamelessly called it the "Green New Deal" to try to evoke President Franklin Roosevelt, whose New Deal "Four Corners" hydro projects gave United States industry the electrical power to arm the world against fascism. The "Green New Deal" does the opposite.

Loss of Productivity

One way of expressing productivity in industrial processes would be the ability to use less energy, less work, to produce the same product, and therefore to



USGS/Todd Katzner



GEOSOL

A wind farm rated at 1,000 MW has a “median performance” of half or less of that of a 1,000 MW rated coal-fired plant. A solar farm generates one-quarter or less. Shown: the Altamont Pass Wind Farm in northern California, and the GEOSOL Solar Power Plant Leipziger Land, in Espenhain, Germany.

produce more and better product with the same input of energy and work time. Technological progress is usually the source of this increase in productivity.

The Sanders/Markey/Ocasio-Cortez “Green New Deal,” as detailed by their staffs and others, proposed to replace both 100 million gasoline-powered motor vehicles with electric vehicles, and half of the coal and oil used in residential and commercial heating with electricity. This would require roughly 360 GW of new electric power capacity in the U.S. fleet of power plants. But since, at the same time the Green New Deal eliminates coal-fired power production in the provision of electric power for industry as well, and replaces it with “renewables,” about 485 GW of new electric power capacity would be needed.

But all electric power capacity is not by any means the same. A wind farm of, say, 1,000 MW rated capacity, actually takes 7-10 years to build and its “median performance”—that is, actual electricity generated—is half or less than half of a 1,000 MW coal-fired plant, which takes 2-3 years to build. (A solar farm generates one-quarter or less.) So, closer to 900 GW of new electric power would be required *if in the form of wind power* (much more than that, if solar); and it will take three to four times as long to add it, than if the new power were in the form of modern coal-fired power

plants—which release virtually no particulate pollutants or toxic gases.

Leave aside for a moment the huge bill of materials of all these 200,000 or so large wind turbines, and the impossible/unavailable bill of materials for all the electric vehicles.

Since all these forms of power plants are produced by industrial processes, industry would be using far more energy and expending far more work time than the energy and work it is replacing.

This would seem to be central to the definition of *lowering economic productivity*.

In detail: That Green New Deal proposes to replace 100 million gasoline-burning motor vehicles (out of about 250 million personal motor vehicles and trucks on American roads) with electric vehicles (EVs). If they are to drive 50 miles/day, these 100 million electric vehicles will require 1.3 TWh of electric power per day, or 13% of total current American electricity use. And 60% of the vehicles on the road in America would still be using gasoline in internal combustion engines.

Keep that figure in mind to go on to consider the second “leg” of the Green New Deal, “electrification of all buildings.” The claim is constantly repeated, of replacing fossil fuel use with electricity in residential and commercial buildings, primarily for heating. Approxi-

FIGURE 1

Power Source Comparisons

Power Source	Energy Conversion Effic.	Median Performance (Output)	Power Efficiency
Hydroelectric	80-90%	70% (2006-16 average)	60%
Nuclear	35%	85-90%	30%
Fossil fuels	37%	75%	28%
Wind	Up to 45%	20%	Up to 9%
Solar	20%	20% (2006-16 average)	4-5%

EIR

mately 20% of the current 4,000 TWh-equivalent of U.S. residential and commercial energy use per year is currently not provided by either electricity or natural gas (which is, of course, a fossil fuel, but is given an opportunistic pass for decades to come by some Green New Dealers). Replacing that 20% with 800 TWh/year of electric power requires raising U.S. generation and use by another 20%.

But because of intermittence, the median output of a given capacity of wind power is half that of the same capacity powered by coal; for solar power, it is one-fourth that of coal power. So, at best, replacing that 20% of residential and commercial energy use with electricity *produced by wind and solar* will actually require 1,600 TWh/year or more of added power capacity. That means adding 440 GW of new capacity at the median output of wind, which is considerably better than that of solar; and the 100 million electric vehicles discussed above will require 280 GW new capacity at the median output of wind.

The total new capacity required for these so-called “sustainable” goals of the Green New Deal, 720 GW, is equal to two-thirds of the entire United States electric power fleet.

Thirdly, some 9% of the United States’ total energy use consists in industrial use of coal and oil for energy. If even half of this were supposed to be replaced by “renewable” sources—which, in the “green finance” taxonomy, don’t include nuclear electric power—that would require building wind and solar power equivalent to another 125 GW capacity—but actually more, namely 250 GW at the median output of wind turbines. So the Green New Deal would require adding, in total, the equivalent of nearly 90% of the United States current electric power fleet of 1.1TW capacity.

If all this were wind turbine power, by a very conservative rounding down of specifications given in the U.S. Department of Energy’s “Ultimate Fast Facts

Guide to Nuclear Energy,” it would cover 6.5% of the United States’ land mass—250,000 square miles of wind farms, the size of Nevada, Arizona, and half of Colorado. If solar, it would devour the area of five such states.

Also needed: conservatively, 150-200,000 miles of new long-distance, high-voltage transmission lines, even assuming that local distribution lines would be able to distribute all the additional power.

(Almost buried under this Green New Deal scheme would be the only sensible act suggested by it—electrifying rail passenger and freight transportation and raising it to higher speeds. This, by contrast, would require an addition to U.S. total electric power capacity of only about 1%, or 10-12 GW of new power; or 25-30 GW new power to include the additional construction of 10-12 new high-speed rail corridors. Unfortunately, in the Green New Deal, electrification of existing rail is not proposed; only the building of new high-speed rail corridors.)

Electricity Grid Nightmare

Comparisons of different power sources in terms of efficiencies and actual output is shown in **Figure 1**.

That electricity would become twice, perhaps three times as expensive as the current average 10-11 cents/kWh in America, can be assumed from the experience of Germany and Denmark, which are well embarked on this road, though not quite this far. This will cut capital investment and power use in industries of every type. In areas where concentrations of high-technology industry remain, such as the northern Midwest states, the South and Southwest, the attempt to use electricity grids largely supported by intermittent power technologies will cause damaging power interruptions—and the same is true regarding modern medical centers with complexes of hospitals and clinics.

But much more dangerous will be the condition of the now much larger, supposedly much “smarter” electric grid. If anything like the scheme described above *could* be carried out, it would require a U.S. electrical capacity of some 2,000 GW installed, nearly half of which would be wind and solar farms whose

generated output fluctuates *daily* between zero and 40-50% of their rated power capacity. Since no electric grid obeying the laws of electrodynamics, no matter how “smart,” could cope with this constant huge fluctuation, the 1,000 GW of newly added power would consist of a mix of wind and solar farms, and large numbers of new natural gas-powered turbine plants which “back up” these “renewables”—better called “interruptibles.” The other half of the U.S. fleet would also continue to include a very large number of gas turbine plants, with declining numbers of nuclear power plants and hydroelectric dams, and some biomass mini-plants.

A very large share of the natural gas and nuclear plants—while capable of relatively stable and reliable operation for the gas turbines, and extremely reliable operation for the nuclear plants—would instead be ramped up and down, shut down and restarted, according to the demands of the intermittent and fluctuating output levels of the “interruptibles.” The performance of the nuclear plants in particular would be degraded by this, and their operating lifetimes shortened closer to the very short lifetimes of the wind turbines and solar farms.

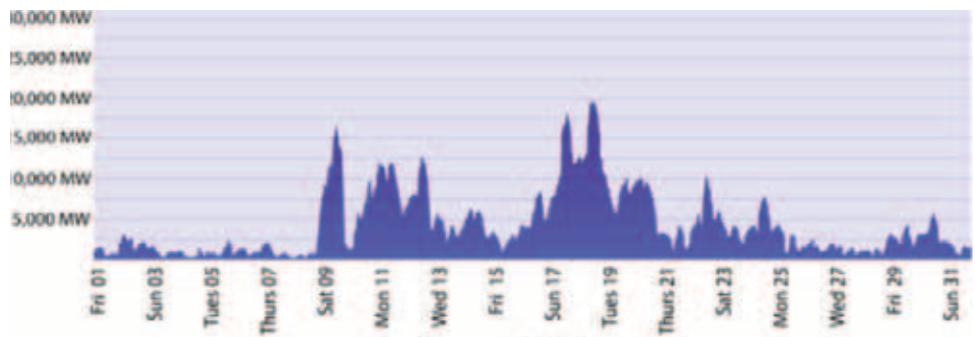
And the more wind and solar were added to the grid, the more unstable it would become, as amply shown by the German “energy transition” since 2011. More and more interventions by grid operators will be required to keep the power on—in Germany, now several thousand such interventions annually—until inevitably blackouts begin to occur—as nearly occurred across a large area of Europe on January 9 of this year.

Added to the prospect of a nationwide blackout due to existing but remote threats—a huge solar coronal mass ejection (CME) in the direction of the Earth, an electromagnetic pulse (EMP) attack using nuclear weapons—we will have the increasingly grave threat of a nationwide blackout due to our own policy of returning to “throwback” energy technologies with low energy-flux densities.

FIGURE 2

Wind: German Installed Capacity vs. Output

Maximum installed capacity=35,000 MW



August 2014

Electricity generated from all of German wind turbines during the month of August 2014, measured against the advertised installed capacity. Image adapted from that used by Wolfgang Müller at the 2015 ICCG.

Steel and Autos

The other crucial economic sectors in which the Green New Deal would do irreparable damage, are agriculture and livestock raising, and steel production.

A 2020 [study](#), titled “The Paris Effect: How the Climate Agreement Is Reshaping the Global Economy,” by a think-tank for the OECD called SYSTEMIQ, Ltd., which was created under the Paris Accord to look for long-term arcs of change in various sectors under a Green Deal, made the shocking forecast that world steel production would decline by 23% between now and 2100 under what it called “the Paris Effect”! In the eyes of these neo-Malthusians, the global steel sector already “suffers from overcapacity.”

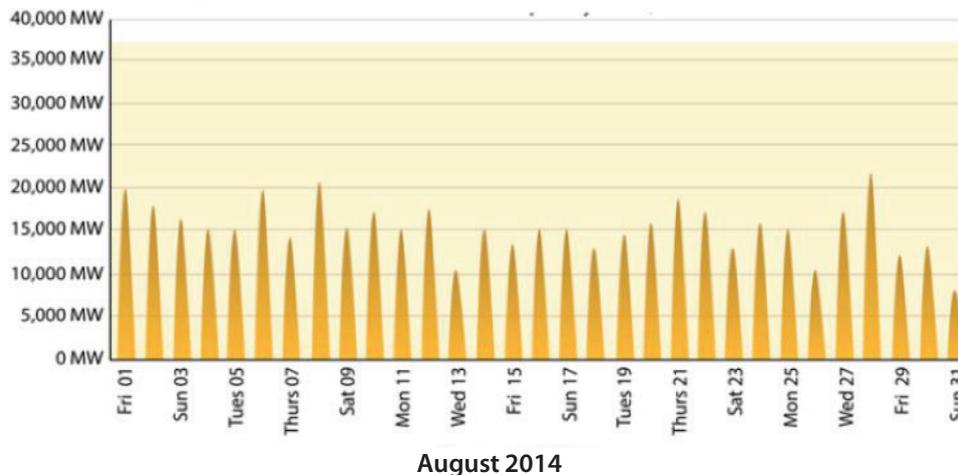
The Malthusian solution is revealed in the graph accompanying that chapter in which global steel production is assumed to decrease from 2,342 Mt per year to 1,786 Mt by the year 2100. Within this total, the segment of “primary production” further shrinks, by almost 50%, while the segment of “recycled” steel by electric-arc and similar processes more than doubles, comprising than half of all steelmaking by 2100. Recycled steel is inherently of a lower quality (strength) than high-carbon primary production product, and some special grades of steel cannot be reliably produced by recycling at all.

The sponsors of this SYSTEMIQ include Lord Nicholas Stern, another protégée of Prince Charles, and Klaus Schwab of the World Economic Forum, and the Green Finance Institute. The study was funded by The Children’s Investment Fund Foundation.

FIGURE 3

Solar: German Installed Capacity vs. Output

Maximum installed capacity=37,400 MW



Electricity generated from all of German solar power during the month of August 2014, measured against the advertised installed capacity. Image adapted from that used by Wolfgang Müller at the 2015 ICC.

So it is not only difficult to see where all the materials for hundreds of millions of very large lithium batteries for electric vehicles will come from; it is hard to see even where the high-quality rolled steel products to make the vehicles themselves will be coming from. (Not to mention the special steels required for all the thousands of miles of rails for high-speed rail transport called for in Green New Deal plans.)

Last December 17, Toyota’s President, Akio Toyoda, speaking at a year-end news conference in his capacity as chairman of the Japan Automobile Manufacturers Association, warned the political class about its stated intentions to fully convert to electric cars. He said Japan would run out of electricity in the summer if all cars were run on electric power. The infrastructure needed to support a fleet consisting entirely of EVs would cost Japan between ¥14 and ¥37 trillion, the equivalent of \$135-\$358 billion. “When politicians are out there saying, ‘Let’s get rid of all cars using gasoline,’ do they understand this?” Toyoda asked. “The more EVs we build, the worse the carbon dioxide gets.”

The Example of California

California is as far ahead of the rest of the United States in implementing the Green Deal, as Germany is in making a cautionary tale for Europe. Here is the German case: The power output of installed wind power in Germany in one month of 2014, by day, is

shown in **Figure 2**.

Though the month was August, solar did not do any better, as shown in **Figure 3**.

California’s governor in 2005, Arnold Schwarzenegger, issued an executive order, then made law by California’s 2006 Global Warming Solutions Act, that it would cut CO₂ emissions to just 20% of the 1990 level by 2050, and, among other things, that it would not only eliminate coal power but refuse to *import* coal-fired power from any other state. It has since done all this, while also eliminating nuclear power in a process to conclude in 2024. But its at-

tempt to replace coal and nuclear with constantly expanding wind farms, solar farms, and natural gas turbine plants has not succeeded.

Electric power generation in California dropped by 2.7% in 2019, while “interruptible” power technologies rose from 55% to 57% of total rated capacity. The state’s target is that this will become 100% by 2045. Coal has been eliminated in the state, and nuclear power plants, which once had a combined installed capacity of 12 GW, now are at 2.4 GW from a single plant, Diablo Canyon, and will go to zero in 2024 when that plant is scheduled to shut down as “economically not viable.”

The state’s *per capita* energy consumption is the third-lowest in the nation. Regarding actual generation of electricity as opposed to installed capacity: Coal power has been completely eliminated in the state; residual nuclear energy is just 2.6% of total generation compared to 19% nationwide; wind, solar, biofuel, and hydro account for 36.6%—double the national average—and natural gas turbine plants for 60%. This is precisely the Green New Deal profile for electric power, as detailed above.

The result is also predictable. In-state generation of electricity fell by 5% in 2018 before the above-cited 2.7% in 2019, the result of shutting down (inclusive of 2020 actions) about 12 GW of gas turbine capacity. The residential electricity price is 50% above the national average; the commercial electricity price 70% higher;

and the price for industrial electricity 150% higher.

California suffered regional power blackouts three times in 2019 and 2020 combined. These occurred because the state government attempted to accomplish the shut-down of some of the (“polluting”) gas-turbine capacity, which had replaced coal and nuclear and become the back-up redundant power for the wind and solar farms. With power demand high in the summer, the state regulator—which already was far above any other state in importing power from other states—tried to import still more at high-demand times of day and was rebuffed. Blackouts ensued, primarily in the southern part of the state.

Remarkably, after the August 2020 “high-level emergency” declared on the grid, with wholesale electricity prices reaching \$1/kWh, and the ensuing regional blackouts, California’s governor, Gavin Newsome, acknowledged that the state’s economically suicidal energy policy was responsible. Newsome said the displacement of fossil fuel by solar and wind was “a moral and ethical imperative” but had created “gaps in reliability” in the electric grid. “Collectively, energy regulators failed to anticipate this event and to take necessary actions to ensure reliable power to Californians,” Newsome said.

Manufacturing growth has been rendered nearly impossible in a state which once led the nation in high-skilled aerospace manufacturing, for example. California had 2,050,000 manufacturing jobs in 1990 but is down to 1,220,000 at the start of 2021, a 40% drop. During the gain of approximately 600,000 manufacturing jobs nationwide during the Trump Administration’s first three years, California’s manufacturing employment stagnated; it remains at the level of 2015.

California imports one-third of its total electricity use—and will not, by law, import power produced by coal. Were even a significant minority of states to reach that situation, regional power blackouts would become a certainty, producing chaos in industry, medical care, and many other fields.

In a nation in which states with a great deal of nuclear and coal power—such as Pennsylvania, Illinois, and Alabama—are the biggest exporters of power; and states like California and New York, with no coal and only residual nuclear power, are the biggest importers; the consequences of imposing a Green New Deal are obvious regarding blackouts, unreliability of power, and unstable energy grids. The biggest electricity importing states also exhibit lower, and falling *per capita*

electricity use; New York, for example, as of 2018, became the fourth-lowest for electricity generation and use *per capita*, above only California, Rhode Island, and Virginia. New York has just eliminated 13% of its power capacity by closing the remaining Indian Point nuclear reactors, and despite plentiful hydropower, is getting most of its dwindling power from “interruptibles” and from natural gas.

The Pandemic, and Recovery

The COVID-19 pandemic has not only caused 2 million excess deaths in the world—compared to an average annual death rate of about 55 million before the pandemic—it has also, according to a new report by the UN International Labor Organization (ILO), caused the loss of the equivalent of 250 million full-time jobs, probably actually negatively affecting the employment of about 500 million people around the world. That was the status as of the 4th quarter of 2020, according to the ILO, and it tracks two earlier reports by that organization in May and October. The overwhelming number of people affected are what are called “informal workers” in the developing nations, and there are more than 2 billion “informal workers” in the world’s workforce. This great loss of life and work is continuing, even worsening. ILO’s report in fact forecast the loss of the equivalent of 130 million *more* full-time jobs in 2021.

The great majority of nations in the world do not have robust medical care or public health systems, and this is true for many of the “advanced” nations in Europe and the Americas.

To take the United States as an example: It has a 1946 law called the Hospital Construction and Survey Act (the “Hill-Burton Act”), no longer enforced for decades, which required 4.8 hospital beds of various types per thousand residents in every county. The *average* today is 2.3 beds/thousand per county, with the nation having roughly 900,000 general hospital beds, but with many rural counties near zero beds. Contrary to decades of “expert opinion” in the United States that hospital bed rating is “outmoded and inefficient,” municipal hospital systems across the country have become overwhelmed by patient loads at several points in the COVID-19 pandemic. The United States in fact needs 500,000 more hospital beds urgently, including special types.

Contrast to this, levels ranging from 8 to 11 beds per thousand people in many Asian and some Eastern European nations. The inability of most Western Euro-

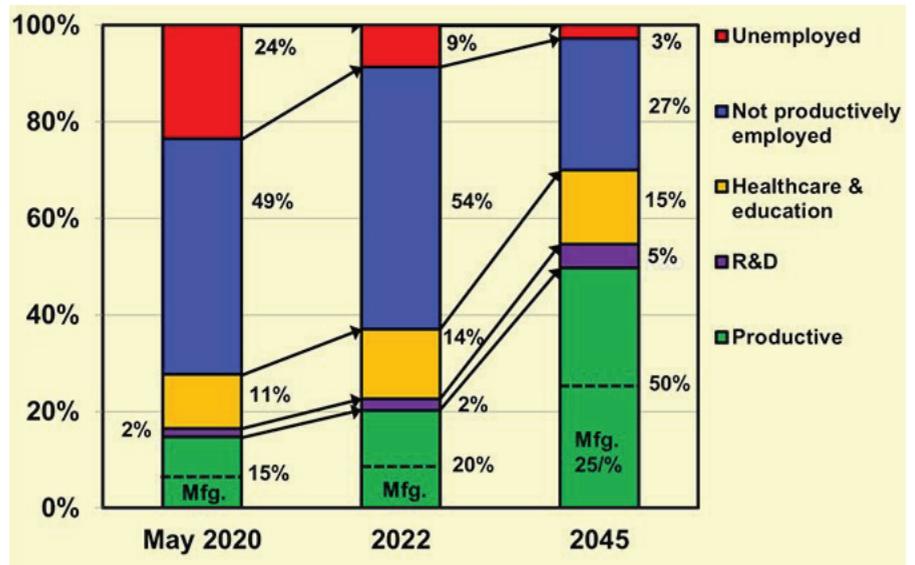
pean nations and the United States to mount any serious COVID-19 testing and tracing effort is merely indicative that public health capacities have also been allowed to atrophy.

The situation in most developing nations outside of East and Southeast Asia demands a global mobilization. The COVID-19 pandemic is by no means over, nor is it the last one for years to come. A modern public health and hospital system needs to be built up fast *in every country*, including the requisite living standards for healthcare workers.

What this requires was detailed by EIR in our May 2020 report cited above, *The World Needs 1.5 Billion New, Productive Jobs*: Ten million beds in modern hospitals and clinics around the world. Several thousand GW of new electric power worldwide, best provided by small modular nuclear reactors. The development of large new fresh water supplies for those medical facilities and housing developments for their staffs. The employment of 110 million people in new construction, engineering, laboratory, and healthcare jobs, and the mobilization of auxiliary workers in vaccination campaigns, which have yet to begin in most developing nations.

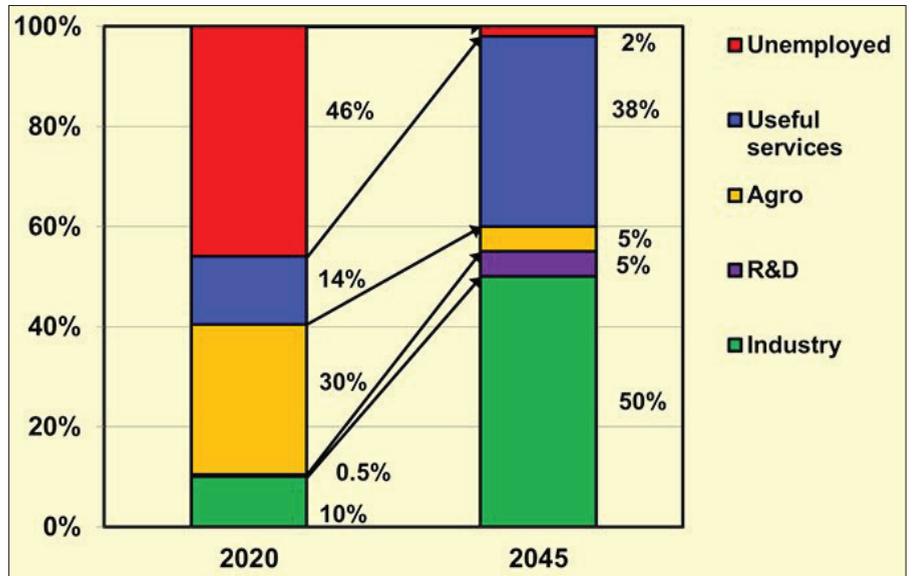
This necessary great infrastructure project can only be driven by the major high-technology nations such as China, Russia, the United States, India, Japan. It provides these nations' sovereign governments the necessary "first mission" to strike down the London-centered financial powers imposing the Green Deal or "Great Reset," which powers are rallying the private financial sectors of Europe and North America for *selective but spreading denial of credit* to real, productive economic

FIGURE 3
Transforming the U.S. Labor Force
(% of total)



EIR

FIGURE 4
Transforming the World's Labor Force
(% of total)



EIR

What's involved in creating infrastructure great projects to employ hundreds of millions of people productively. The large red blocks in 2020 show the COVID pandemic's huge shifting of non-productively employed and "informal" workers into unemployment by mid-2020. The first "great project," to employ millions in the United States and hundreds of millions productively worldwide, is the creation of modern healthcare and public health systems in every nation—including now, rapid worldwide vaccination.

activity worldwide. These nations' leaders must meet to launch the *large-scale provision of credit* to the most critical and most productive economic activity.

Electric Vehicles, But No Electricity!

by Claudio Celani and Tobias Faku

Jan. 24—Electric vehicles (EV) are a key part of the so-called Green Transition envisioned by the Great Reset schemes being endorsed by the European Union (EU) and the new Biden Administration. The automotive sector, it is asserted, causes 28% of greenhouse gas emissions, coming first before the steel sector; so governments have adopted climate policies that aim at a full replacement of vehicles with internal combustion engines, with EVs. However, such an ambitious goal—besides the fact that it relies on the false assumption that it would help mitigate climate change—will actually be impossible to achieve, and efforts to implement it will result in an industrial, financial, and social catastrophe.

Last December 17, speaking at a year-end news conference in his capacity as chairman of the Japan Automobile Manufacturers Association, Toyota's President Akio Toyoda launched a strong warning against the political class because of their intentions to fully convert to electric cars. He said Japan would run out of electricity in the summer if all cars were run on electric power. The infrastructure needed to support a fleet consisting entirely of EVs would cost Japan between ¥14 and ¥37 trillion, the equivalent of \$135 to \$358 billion, he said.

“When politicians are out there



Pixabay/mmurphy

An electric car at a recharging station in Amsterdam.



cc/Moto@Club4AG

Akio Toyoda, President of the Toyota Motor Corporation.

saying, ‘Let’s get rid of all cars using gasoline,’ do they understand this?’ In a country such as Japan that gets most of its electricity from burning coal and natural gas, “The more EVs we build, the worse the carbon dioxide gets,” Toyoda said.

Toyoda said he feared government regulations would make cars a “flower on a high summit”—out of reach for the average person.

Based on the figures projected by Mr. Toyoda for Japan and applied to the EU population size, the infrastructure needed to support a 100% fleet of electric battery vehicles would cost Europe between \$476 billion and \$1.234 trillion.

However, even if the funds are generated, either by slashing national budget items such as health care, schools, and pensions, or by massively increasing government debt, a full conversion to EVs is scarcely feasible, technically.

Let us take the intermediate goal set by the European Union: reducing CO₂ emissions by 55% by the year 2030. Let us imagine applying that cut to the motor vehicle sector (it could be less or more than that), by replacing 55% of the total 63 million motor vehicles in Germany with EVs.

In order to do that, some 35 million EVs would have to be sold in the next decade, an average of 3.5 million per year. Currently,



EIRNS/Stuart Lewis

Adding huge new capacity to the electrical system, consisting only of renewables, as the EU Commission wants, will only make the grid more unstable and will end in a blackout catastrophe.

63,321 EVs are sold yearly in Germany, 1.75% of the total of 3.6 million vehicles sold in 2019. At the current rate, EU targets for 2030 will be achieved in 550 years, and the 2050 target (zero carbon) in 1100 years.

In other words, the EU target for 2030 can be achieved only by increasing yearly sales of EVs by 5,500%! This is without considering the cost of increasing electricity production in order to power all those cars.

In fact, assuming a yearly consumption of 3,285 kWh per EV on average, [calculated](#) on approximately 15,000 km travelled, Germany should produce an additional 11-12 TWh of electricity per year. Assuming that it comes from “renewables,” as the EU proposes, it should build approximately 1600-1700 giant windmills each and every year for the next ten years.

However, the German and the European electrical grid is already so dependent on so-called “renewables,” that it has become highly unstable, already occasionally coming very close to total collapse (see *EIR* January 22, 2021). Adding new, huge capacity to the grid only from renewables as the EU Commission wants, will make the grid even

more unstable and will end in a catastrophe.

Green Transition Is Indeed a Very Brown One

Although EVs are a central element of the Green transition, in reality their means of production are not green at all. In order to match the energy stored in a conventional car having about 40 liters (10.5 gallons) of gasoline, an EV needs a battery that weighs at least half a ton. The production of such batteries is extremely energy intensive, and includes the mining and processing of huge amounts of copper, aluminum, and lithium.

The materials consumption for a full electric conversion of the car fleet of a country such as England would amount to twice the annual global production of cobalt, three quarters of the world’s production of lithium carbonate, more than half the world’s production of copper, and nearly the entire world annual production of neodymium, according to [Michael Kelly](#).

If we consider a full electric conversion of the car fleet of all EU member states as planned by the EU Commission until 2050, taking into account the average age of cars being 10.8 years, we would need 26 million EVs produced every year. This would require an increase of world cobalt production by 17 times, of lithium by 6 times, of copper by over 4 times, and 8 times the entire world production of neodymium.

The pollution produced by mining and processing such an amount of materials would be gigantic. Additionally, there would be the need to double

electric generating capacity and the capacity of electric transmission grids, as well as a new system of charging stations for all cars and trucks at home or at work.

Production of electric engines requires the rare earth mineral neodymium. Currently, due to environmental



Heinrich Priok

To produce 26 million electric vehicles every year, would require a 17-fold increase in world cobalt production. Shown: Samples of 99.99% pure cobalt.



CGTN

The pollution and other dangers to health produced by mining and processing the amounts of cobalt, lithium, and copper required for a full conversion of the current fleet of motor vehicles, would be gigantic. Shown: a copper and cobalt mine in the Democratic Republic of Congo.

concerns (mainly raised by the green movement), there is almost no mining of [neodymium](#) in the West, and China is the main world producer.

We have seen above the giant increase of electricity production required to fuel EVs. Now consider the power needed to fulfill the above list of materials. The green idea in the West, to go fully electric and at the same time reject energy-intensive primary power sources like nuclear and fusion, guarantees that the energy-intensive aspects of EV production will never take place in the West (China has a 75% market share in lithium batteries) and that its economies will die fast, like East Bloc economies in the post-1988 period.

Social Consequences

Decarbonization of mobility would also cost several hundred thousand jobs in Germany, warned a National Platform for Mobility (NPM) [report](#) in January 2020. The NPM is a working group at the German Environment Ministry chaired by the head of the IG Metall metalworkers' union Jörg Hoffmann.

In fact, even were a successful transition to E-mobility possible, only a tiny number of jobs can be absorbed by the new production mode. This is because of the large number of components of combustion engines (ca. 1200) which are going to be replaced by one battery.

Based on the NPM estimates for Germany of up to 410,000 jobs lost in an “extreme scenario,” the estimates

for the EU as a whole are for the loss of 1.5 million jobs in the automotive sector alone. The NPM is not against decarbonization in principle, but calls for a less harsh transition and for exploring alternatives to E-autos, such as hydrogen and synthetic fuels to replace internal combustion engines.

Massive unemployment means a massive drop in family incomes and a consequent drop in consumption, depressing the domestic market. Companies' turnover will drop, forcing new layoffs. Government revenues will also drop, as a result of less income tax, and VAT and corporate taxes.

Increasing Resistance

Luckily, some governments in the EU are waking up to the insanity of the Green Transition. The EU Commission was supposed to publish its “Taxonomy” rules on January 1, but it had to postpone it due to opposition from ten member states. The word “taxonomy” has nothing to do with taxes (at least not directly) but comes from Greek and means “classification.” In the intentions of the EU Commission, it should be a classification of products and activities according to their CO₂ footprint, and should provide the basis for subsidizing or penalizing such products and activities in order to favor the Green Transition.

But last December, Bulgaria, Croatia, Cyprus, Czechia, Greece, Hungary, Malta, Poland, Romania, and Slovakia signed a document objecting to the exclusion of natural gas from the list of “transition fuels” and calling for “the possibility of using hydrogen from various energy sources.”

Facing a possible veto, the EU Commission backed down, and the above demands were included in the EU Council summit of December 10-11. But “the Commission’s woes with the green finance taxonomy did not stop at gas or the ten signatories of the paper,” Euractiv reports. “Almost every EU country or interest group had issues with the draft delegated act, according to a well-positioned source in the European Parliament who keeps a close eye on the dossier.”

The European Commission is now busy reworking its proposal and will present an updated draft to EU national representatives during a meeting of the EU member states' expert group (MSEG) on sustainable finance, scheduled for January 26. After that, EU member states can either accept the draft or reject it *en bloc*.

International Briefs

Steele Told FBI, ‘I Went with Hillary Clinton Rather Than the FBI’

A recently released FBI interview with British Secret Intelligence Service (MI6) agent Christopher Steele (and his Orbis Business Intelligence co-founder Christopher Burrows) is covered by John Solomon in his “Just the News,” January 20, which includes links to the FBI reports and interviews.

The interview with Steele took place after the FBI fired him for leaking to the press, which they had forbidden. When they asked him why he did it, he responded that he had been “riding two horses,” getting paid by both the FBI and Fusion GPS (which was hired by Hillary Clinton to gather dirt on Trump), but after Comey reopened the investigation into Secretary Clinton’s illegal use of her private servers for classified information, Steele decided to go with the one horse—Clinton.

Steele also said, the FBI wrote, that President Donald Trump was “their ‘main opponent’ and indicated that they were fearful about how Trump’s presidency negatively impacted the historical U.S.-U.K. alliance and the U.S.-U.K. special relationship.”

Prince Charles and Atlantic Council Push ‘Terra Carta’

At a January 19-21 premiere event sponsored by the Atlantic Council’s Global Energy Forum, rabid Malthusian environmentalist Prince Charles presented his newly

launched initiative, the “Terra Carta”—or Earth Charter, imitating the Latin of the Norman oligarchy’s infamous Magna Carta—and its “Sustainable Markets Initiative” to “bring CEOs together” to “drive a just energy transition.”

Introduced in gushing terms by Atlantic Council President Frederick Kempe, Prince Charles spoke of the “interconnection” between human health (COVID) and “planetary health.” We must move beyond good intentions, he said, to a “practical effort to mobilize financial resources.... I have been challenging leaders of nations and CEOs of corporations to take action.”

Growing Unrest over Brazil’s COVID-19 Crisis

The disastrous COVID-19 crisis in the Brazilian city of Manaus (Amazonas state) is not letting up, despite the announcement that the Brazilian Air Force is flying up to 1,500 patients out of the city to other locations, as the collapsed local healthcare system has no beds. Oxygen continues to be scarce, despite emergency supplies flown in from other parts of Brazil and other countries. One desperate epidemiologist, Jassem Orellana, declared that “Manaus is lost,” and called for a mission of international observers to be sent to the state as, in her view, nothing the local authorities do can be relied on.

The political unrest in the country is palpable, and is particularly aimed at President Jair Bolsonaro, whose handling of the pandemic has been incompetent and negligent at best. Calls for Bolsonaro’s impeachment are increasing, as seen most recently in car

caravans organized in January demanding his ouster. His Foreign Minister, Ernesto Araújo, a Steve Bannon acolyte who hates China, is also on the hotseat for having sabotaged negotiations with China that would have allowed the importation of inputs from that country needed to produce the Sinopharm vaccine domestically.

Ramaphosa: Rich Countries Hoarding Vaccines Will Prolong Pandemic

Making his Special Address to the January 25-29 Davos Agenda 2021 conference of the World Economic Forum (WEF) on January 25, South Africa President Cyril Ramaphosa warned rich nations who have bought and hoarded more COVID-19 vaccines than they need, that they risk prolonging the pandemic. Stressing the need for global cooperation in tackling challenges from COVID-19, Ramaphosa said, “We are all not safe if some countries are vaccinating their people and other countries are not vaccinating.”

Ramaphosa, now finishing his term as AU chairman, thereby endorsed, and brought before the WEF, the message of WHO Director-General Dr. Tedros Adhanom Ghebreyesus, who told his board Jan. 18, “I need to be blunt. The world is on the brink of a catastrophic moral failure—and the price of this failure will be paid with lives and livelihoods in the world’s poorest countries.” He said the “me-first approach” would be self-defeating, because the richer countries would remain at risk if they ignored needs of the world’s poorest.

Cuba To Make 100 Million Doses of Its COVID Vaccine for Cuba and Ibero-America

Dr. Vicente Vérez, director of Cuba's leading scientific institution, the Finlay Vaccine Institute, has announced that the Institute intends to produce 100 million doses of the Soberana-2 COVID vaccine, one of four vaccines currently being developed in Cuba to vaccinate its population of 11.2 million people by the end of this year.

Cuba has also indicated that the vaccines it produces will be made available to Ibero-American and other interested nations. Dr. Vérez told Xinhua that the marketing of the vaccine "is a combination of humanity and [having] an impact on world health. We're not a multinational where the financial goal is the top priority. Our goal is to create greater health."

The Soberana-2 vaccine will enter Phase-3 clinical trials in March. Once its use is authorized, it will be the first such vaccine developed and produced in Ibero-America. The Trump administration repeatedly intensified economic warfare against Cuba, including in January 2021, and former Secretary of State Mike Pompeo boasted publicly that he intended to "asphyxiate" the Cuban economy. The Biden administration said Jan. 28 that it would "review U.S. policy on Cuba."

U.S./NATO Makes Naval Show of Force in the Black Sea

The change of administrations in Washington has so far had no effect on the nature of the military standoff between the U.S. and its NATO allies on the one side, and Russia on the other.

On January 23, the U.S. Navy guided-missile destroyer USS Donald Cook passed through the Bosphorus into the Black Sea for what the U.S. Sixth Fleet said was a joint maritime and air training mission that also involved a P-8A maritime patrol aircraft and a NATO E-3 AWACS aircraft. A day later, the *Donald Cook* was joined by the fleet oiler *USNS Laramie*. "*Laramie*'s arrival in the Black Sea helps promote stability in the region by its ability to replenish ships at sea. *Laramie*'s refueling capabilities allow *Donald Cook* extended time on station to continue operations without having to go to port," the Navy said in a January 24 news release.

ILO: Pandemic Has Caused Job Losses Equal to 255 Million Full-Time Jobs

A January 25 report by the UN's International Labor Organization (ILO) states: "In 2020, 8.8% of global working hours were lost relative to the fourth quarter of 2019, equivalent to 255 million full-time jobs." This contraction is four times that which was reported for the financial crisis of 2009.

For the current year, the ILO forecasts a loss of the equivalent of between 90 and 130 million full-time jobs—but the potential effects of the fourth and fifth wave of pandemic are not yet factored into this expectation. Nor are those job losses reported that are not officially registered by ILO member states, i.e., seasonal and shadow workers.

Argentine President To Visit China, Join Belt & Road, in May

Assuming the coronavirus pandemic permits it, Argentine President Alberto Fernández's May 5 trip

to China will be of strategic importance to Argentina's future. He is expected to meet with President Xi Jinping twice and sign a memorandum of understanding to join the Belt and Road Initiative (BRI), along with several other agreements.

The two presidents already enjoy a warm relationship and have communicated with each other frequently over the recent period. While Fernández has said he seeks a friendly and hopefully cooperative relationship with the Biden administration, particularly as this relates to negotiations with the IMF, he is looking to the relationship with China to help make major strides in his nation's economic and scientific development.

China Completes High-Speed Rail Line To Its Northeast

China completed construction of a high-speed rail line from Beijing to the northeastern city of Harbin on January 22. The route passes through Changchun and Shenyang and covers a distance of 1,198 km (744 miles). It cuts the travel time from seven hours to less than five. The line will use the new Fuxing Alpine EMU (Electrical Multi-Unit) train sets. Temperatures in Harbin in January, the coldest month, have an average low of -3.6°F. The flaming red train has been dubbed the "Fire Phoenix" and is one of the most technically advanced trains of its type; it can operate at -40°F. The new EMU adopts technology such as chrome-molybdenum alloy steel bolts and nuts, low-temperature control switches, automatic anti-freezing function brakes, and water supply and drainage pipes covered with cold-proof materials.

III. Vaccinations: The General Welfare

Vaccinations: Science in the Service of Humanity

by Janet G. West

Jan. 28—With just 15 million Americans having been administered vaccine against COVID-19 to this date—and far, far fewer even in many developed countries—the success of the COVID-19 vaccination drive depends on more than production and distribution rates and public health systems. It also needs what seems, in the United States, to be a scarce virtue among its citizens: commitment to the General Welfare.

The words are capitalized in the great Preamble to the United States Constitution as one of the primary concerns of “We, the People.” No disease is or has been *eradicated* in history, except among peoples who were concerned about the welfare of the many and of posterity, ultimately at least as deeply as they cared about themselves.

That is because—particularly during the past three centuries in which methods first for inoculation, and then for vaccination were discovered—no pandemic or widespread disease has been eradicated without the sacrifice of some lives in the battle, who might otherwise have “lucked out” and avoided a deadly or debilitating disease. We no longer fear polio, smallpox, yellow fever, or a number of other once-deadly and frightening plagues, because of “crash programs” of public health and medical science. And we know that in those mobilizations against those plagues, some lives were lost in investigating, finding, proving, and preventing the cause.

Would we wish that in those emergency public health campaigns of the past, every citizen and every family had decided to “play it safe” and avoid any new vaccination being tested? Would we rather that they had all played it safe and trusted their luck, and that therefore still today, tens of thousands of people among us

would be very unlucky: paralyzed or dying every year of polio, hundreds of thousands dying every year from smallpox, or tuberculosis?

That is the wish of the strange tribe of misanthropes known for more than 200 years, and called today “anti-vaxxers,” who believe in letting even deadly epidemics run their course and kill whom they will. They conduct campaigns, with media and now social media complicity, to frighten people to try to “stay safe” as individuals



Ernest Board, c. 1910

Dr. Edward Jenner performing his first smallpox vaccination on James Phipps, an eight-year-old boy. May 14, 1796.

or parents, while causing curable diseases freely to ravage their fellow human beings. And they preach “clean, simple, natural living” as the alternative medicine of choice for the ignorant and indifferent. But the anti-vax campaigners themselves are Malthusians, descendants of the English parson who called for letting diseases “run as they will” among human populations, to cull the poor and reduce the strain on the Earth’s resources.

Therefore the success of this or any vaccination drive depends also on national leadership: in the mold of George Washington, who kept his hungry and impoverished army well enough to fight by the then much-feared *inoculation* against smallpox; or Franklin Roosevelt, the President paralyzed by the disease he led his fellow Americans to defeat and eradicate.

The world currently faces unprecedented crises in the realm of economics, the strategic situation, famine, and coronavirus pandemic. We also face the pestilence of the British royal and financial oligarchy and their banking partners, who wish to increase the death rate, especially those with darker skins.

With some nations experiencing second waves of COVID-19 and its new mutations, world deaths have surpassed two million, and the number of infected is over 95 million; some countries are seeing death rates of over 1500 per million population. The breakdown of infrastructure around the world is a major contributing factor—lack of clean water, lack of a transportation grid, etc.—as well as shortages in manufacturing of PPEs, medical devices, hospital beds and shortages of medical staff. Continuing lack of industrial and infrastructure development in many nations is the reason measles, cholera, and others have not been eradicated as thoroughly as the diseases named above.

How are we to address these crises? We can look to the history of how mankind has eradicated or eliminated a number of diseases that have afflicted mankind. We can also apply the solutions to be found within ourselves as citizens of our nations, as expressed in the introduction to the Schiller Institute event of January 18: “A More Perfect Union through the Coincidence of Opposites: Martin Luther King and the American Presidency”:

The duty of each citizen in a free republic, when confronted by an existential threat, is to do as Benjamin Franklin and Martin Luther King did—create a more perfect Union.

The Science Behind Vaccinations

We shall review four notable diseases that have recently been eradicated or brought under control, with a short summary of the development of the vaccines used against them.

The first step was inoculation—taking a bit of the weakened virus and injecting or scratching it into the recipient’s arm. This would mobilize the patient’s

immune system to create antibodies that would attack and destroy the virus. Since the late 18th Century, both live attenuated viruses and inactivated viruses have been used successfully for a variety of diseases: cholera, tetanus, anthrax, plague and others.

More recently, the use of molecular genetics (such as recombinant DNA or rDNA, and messenger or mRNA) sets the stage for an optimistic prospect of new vaccines being developed against cytomegalovirus, herpes simplex virus, pandemic influenza, and HIV, among others. Some of the recent vaccines against COVID-19 utilize mRNA, and this route continues to be researched in other countries, such as Russia.



CDC

A pustule-covered hand of a baby with a mild case of smallpox.

Smallpox is the only human disease that has been eradicated globally. It was known as a scourge to ancient cultures, and has been responsible for more military deaths than cannon, gun, and sword combined.

To stop the spread of the disease, a type of inoculation was initially used, beginning in the latter half of the 17th century, called variolation. It involved taking the pus or powdered scabs from patients with a mild form of the disease, and then inserting it into the skin or nose of a healthy person. That person would ideally suffer only a mild infection, and would then be immune. This had limited success, and included the drawback that even with a mild case, the patient was still infectious and could spread smallpox.

In the early years of the American War of Independence, smallpox was epidemic in the cities, such as Boston. In 1775 Gen. George Washington, as Commander-in-Chief, had to contend not only with British troops militarily, but with their efforts to spread smallpox into the American militias. Due to smallpox being prevalent (endemic) in England and Europe for decades, most people there had contracted it in their youth, survived, and developed immunity to it.

Smallpox inoculation had been first widely done in the Massachusetts Bay Colony by Cotton Mather and Dr. Zebedia Boylston in the 1720s; they rolled back the fierce 1721 epidemic, but because some inoculated citizens developed smallpox in the process, a Malthusian scare campaign against inoculation was whipped up *from Britain*, and it was labeled “dangerous” for decades after.

Washington had a special hospital near Cambridge, Massachusetts to handle smallpox patients, and any soldier showing symptoms would be put under strict quarantine. The Continental Army still forbade inoculation, for fear of spreading the disease and incapacitating the fighting forces.

But sometime between the summer of 1776 and the autumn of 1777, Washington made a command decision to begin inoculation of his troops, quickly and in secret. The fact that his wife, Martha Washington, was successfully inoculated may have tipped the balance in his decision, but it’s more likely that given Washington’s superior strategic thinking, he considered it a crucial military flank. He grasped the idea that more soldiers could die from smallpox than from the British attack.

Later when the Continental Army had been successfully inoculated, Washington offered the treatment to all citizens living near an army encampment; this, too, was done under wraps, and thus tens of thousands of people were saved from the epidemic.

The first *vaccination* against smallpox was by Edward Jenner in 1796. He had noticed that the local milkmaids contracted cowpox, a mild variation of smallpox, and after recovering from it, were then immune. He used a sample from a dairymaid with fresh cowpox sores, and successfully vaccinated an eight-year-old boy. After some effort and trials to win acceptance for the new vaccine, it began to spread slowly around the world; in the early 1800s, Bavaria and Denmark made vaccination mandatory.

It wasn’t until 1967, when technological innovations enabled a freeze-dried, heat-stable vaccine to be developed, that the World Health Organization *WHO* initiated a global campaign to eradicate the disease, and succeeded in 1980. In response, WHO participants passed a resolution which said in part,

The world and all its peoples have won freedom from smallpox ... [this] unprecedented achievement in the history of public health ... demon-

strated how nations working together in a common cause may further human progress.

Deaths from **pertussis** (whooping cough) among children in the decade 1920-30, were about 6,000 annually, more than that of diphtheria, measles, scarlet fever, and tuberculosis. It is highly contagious, spread by aerosol droplets or mucus from the infected person, and can leave complications extending into adulthood. Children, especially younger than a year, are particularly susceptible—the bacteria multiply in the bronchial tubes of the lungs and inflame the tissue, causing it to swell and constrict the airways. The resulting cough—with the distinctive “whoop” as the child tries to catch its breath—can continue for over three months (“the 100-day cough”). It has a high mortality rate among [babies](#).

In 1932, two women from the Grand Rapids, Michigan area began working on developing a vaccine, a challenge at any time, but particularly difficult during the Depression. They were Dr. Pearl Kendrick and Grace Elderling, who worked at the Michigan Department of Health. Working after hours, they canvassed the neighborhoods for sick children, collecting samples directly by having the children cough onto specially prepared petri dishes called “cough plates.” They would use these samples to grow and experiment on the pertussis bacteria.

Elderling and Kendrick were not only unique researchers, but were also skilled organizers—they persuaded doctors and nurses to volunteer as lab workers, and got the cooperation of local residents to participate in a large-scale trial. They also organized and coordinated with health clinics, PTAs, and other community groups through the Department of Health.

Funding before World War II for scientific research was hard to come by; even laboratory mice were considered a luxury. When the two scientists found out that First Lady Eleanor Roosevelt was scheduled to visit Grand Rapids, they invited her for a tour of their lab. She not only visited the lab, but discussed their work with them in depth for several hours, and later helped to organize increased funding for their efforts.

By 1934, they began clinical trials; during the three-year trial, they vaccinated 5,315 children, and succeeded with a 90% non-infection rate, against a control group of random unvaccinated children.

They were joined in their research after World War



Drs. Pearl Kendrick (left) and Grace Elderling (center), working with chemist Loney Clinton Gordon (right), developed the first successful vaccine for pertussis (whooping cough).

II by chemist Loney Clinton Gordon (1915-1999), an African-American scientist who had graduated from Michigan State College (now University). Through a mutual friend, she was hired by Kendrick and Elderling to work in their lab; she diligently tested thousands of cultures to discover the one with adequate virulence with which to make the vaccine.

Scientists had been working on a pertussis vaccine since 1914, but much of it was guesswork. No one was quite sure which strain of the bacterium was best, and how much of it to use, so the vaccines that were available up through the 1930s were largely ineffective.

Gordon improved on the effectiveness of the vaccine by analyzing the pertussis cultures, and was able to identify a powerful strain of the organism. (She discovered that a sheep's blood medium was the one that worked best.) In a later interview, she said, "When I found out that was the organism, I was just ecstatic. I was crazy with joy and happiness." Gordon's improvement helped to create the DPT combination vaccine (Diphtheria-Pertussis-Tetanus), which was adopted and implemented nationally.

intestines. It may cause flu-like symptoms, or it can migrate to the central nervous system and affect the spinal cord and brain; severe cases lead to muscle weakness, paralysis, and death (especially if the muscles required for breathing are affected). There is no known cure.

Most people who are infected show no symptoms (72%), a smaller percentage (25%) experience the mild flu-like symptoms, and a very small percentage suffer the severe effects such as paralysis.

Polio is known to have affected mankind since antiquity, circulating at relatively low levels throughout humanity. Widespread epidemics were unknown before the 1800s, but then they began to appear at a quickening

pace in the Western hemisphere. Clusters of polio cases appeared in Louisiana in 1841 and 1843; then 26 cases in Boston in 1893, then in the next year, 192 cases in Vermont. In 1916, an official announcement was made in Brooklyn, New York of an epidemic—and in that year, there were 27,000 cases in the U.S. and 6,000 deaths. From that time onward, polio epidemics would sweep through different areas of the country every summer; in 1949, there were over 42,000 reported cases and nearly 2,800 deaths.



Wisdom Magazine/Yousuf Karsh, 1956

"There is no such thing as failure, there's just giving up too soon." —Dr. Jonas Salk



President Franklin D. Roosevelt and Basil O'Connor, founders of the National Foundation for Infantile Paralysis, better known as the March of Dimes, meet at the White House in 1944 to discuss polio vaccination efforts.

From that first outbreak in 1916,, swimming pools and movie theaters were closed in summer for 40 years; parents did not allow their children to go to playgrounds or birthday parties. In New York City, any child suspected of being infected would be removed from his or her home and isolated in a sanatorium. Fear spread like wildfire that a family member would become infected and then paralyzed. It was during these hard decades that in 1929 the iron lung became a familiar device for saving lives.

In 1921, Franklin D. Roosevelt was struck by the disease, leaving him paralyzed from the waist down. In 1924, he visited Warm Springs, Georgia and began a regimen of swimming three times daily, and felt increased strength in his legs. Moreover, although the activity wasn't a cure, it did alleviate much of the psychological effects of the disease, and contributed greatly to boosting his political activity.

He bought the resort in Warm Springs in 1926, and rather than keeping it private for his own

benefit and leisure time, he opened it up to other polio patients in an expression of the principle of the General Welfare. He could empathize and connect with them, and this in turn informed his political agenda of addressing the concerns of the "Common Man." He went about improving the grounds and facilities, transforming it into an advanced rehabilitation center, spearheading new methods for treating and combating polio, and setting a new standard for rehabilitation services nationally.

On January 3, 1938, FDR founded the March of Dimes (originally named the National Foundation for Infantile Paralysis). The foundation had been financed by wealthy donors. But in 1938, again acting on the principles in the Preamble to the U.S. Constitution, to "...ensure the General Welfare," FDR turned to the general public to help—and help they did. At one fundraiser the singer Eddie Cantor jokingly appealed to the public to send in dimes to the White House—2,680,000 dimes and thousands of dollars in small donations were sent in; this became the "March of Dimes." It raised millions of dollars from the general public; funded the development of better lung machines to assist victims' breathing when they lost control of their muscles; and later appointed and funded Dr. Jonas Salk to lead the research for a vaccine.

Developing the vaccine was a conscious national and then international effort, starting from the strong leadership of President Roosevelt, to all the scientists and researchers working alongside Salk, and to the hundreds of thousands of volunteers administering the vaccine or rolling up their sleeves to be experimentally inoculated. In 1953, Dr. Salk developed a vaccine, not from live virus as in the common medical practice, but from inactivated poliovirus vaccine (killed poliovirus); he first vaccinated his family. In 1954, field trials began, and by 1957 it became widely distributed. Salk refused to patent the vaccine, and the leading drug manufacturers mobilized to produce and distribute it. More than 400 million doses were distributed between 1955



A campaign poster of the National Foundation for Infantile Paralysis from the 1950s.



CDC

Hospital staff examine a patient in an iron lung (tank respirator) during a polio epidemic in Rhode Island in 1960.

and 1962, reducing the cases of polio by 90%. The spread of polio was slowed down to such an extent that the number of cases went from a peak of nearly 58,000 cases, to 5,600 cases.

But this was achieved only after—among the nearly 2 million children vaccinated in the “crash program” field trials of 1954—about 100,000 were given Salk vaccine produced at the Cutter and Wyeth laboratories, of which some batches were insufficiently deactivated. Those were recalled, but 250 children developed atypical paralytic polio as a result, and five died. Many more very briefly suffered the milder form of the disease. Public trust was shaken for a time. In response, the National Institutes of Health and Public Health Services developed minimum safety and potency standards for all polio vaccine in the United States and a Technical Committee on Poliomyelitis Vaccine was established in May 1955.

Another researcher, Albert Sabin, developed a vaccine using a live but weakened virus, and there was another mass vaccination effort nationally; by 1961, the national number of cases was just 161. Only ten years earlier, “A national poll ... found that polio was second only to the atomic bomb as the thing that Americans feared most,” one historian of the disease wrote.

On Oct. 24, 2019, the WHO announced that there were only 24 cases of wild polio in the world. Only three countries in the world still have not eradicated polio—Afghanistan, Nigeria, and Pakistan.

Measles Elimination, and Return?

Measles was first recorded as appearing in a concentrated way in the 11th and 12th centuries, at a time when the human strain diverged from the strain affecting cattle (rinderpest virus), which has since been eradicated through vaccination.

It is extremely contagious; it lives in the nose and throat mucus and can spread through coughing, sneezing, or through other air-borne particles. Once infected, a person can transmit the disease for 3 to 5 days before the typical rash appears, and 1 to 2 days before a fever. The virus can remain in the air where the person has been, for 2 to 4 hours; up to 90% of the people that come in contact can be infected, especially if they are in close quarters with the infected person.

It is thought to have first spread quickly in cities, and then transmitted into the countryside. It first showed up in the Americas in the 1600s.

Although most people are familiar with the spotty rash produced by measles, they might not be aware that the more serious complications can result in pneumonia, encephalitis, permanent brain/neurological damage and death. Through improvements in living and sanitary conditions, deaths from measles decreased in the 1900s, but it was only after the vaccination developed in 1963 that deaths and cases began to decline significantly; it wasn't until 2015 that the entire continent was able to declare that measles had been eliminated.

The measles vaccine was developed by John Franklin Enders (“the father of modern vaccines”) in the later 1950s; after extensive testing, it was declared effective in 1961. Pfizer and Merck developed deactivated and attenuated vaccines respectively in 1963. Salk had used a technique developed by Enders and his colleagues to produce large quantities of the poliovirus, in order to develop the polio vaccine.

The U.S. has maintained the status of the “elimination” of measles for nearly the last 20 years, and the definition of elimination in this instance (according to the WHO) is—

the absence of endemic measles virus transmission in a defined geographical area (e.g., region or country) for at least 12 months in the presence

of a surveillance system that has been verified to be performing well.

But, thanks to the anti-vaxxers, this distinction could be lost. Dr. Peter Hotez is the Dean of the National School of Tropical Medicine at Baylor College of Medicine, and co-author of a paper on the vaccine movement published this year in PLOS. He was quoted in *Discover* magazine, November 2018:

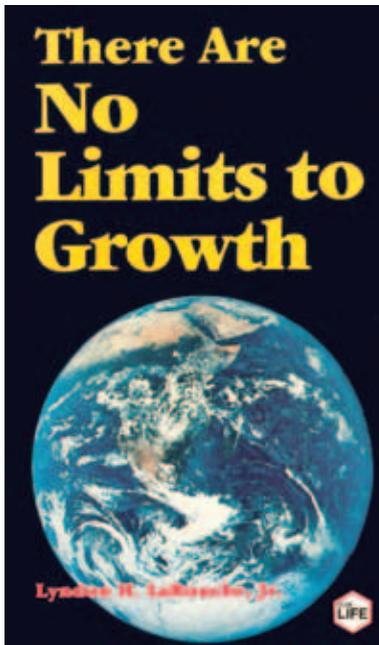
“In Texas, 57,000 kids didn’t get vaccinated this year,” says Peter Hotez, co-author of a paper on the vaccine movement published this year in PLOS. That’s double what it was five years ago, he says. States like Texas allow legal loopholes called nonmedical exemptions [NME], which give parents the right to refuse vaccinations for their children on the basis of religious, philosophical or personal beliefs.

In fact, thanks to the “anti-vaxxers,” not only measles, but also whooping cough, mumps, and other diseases that had been eliminated or severely curtailed, are making deadly comebacks.

Contagion of Evil

I do not pretend that birth control is the only way in which population can be kept from increasing. There are others, which, one must suppose, opponents of birth control would prefer. War, as I remarked a moment ago, has hitherto been disappointing in this respect, but perhaps bacteriological war may prove more effective. If a Black Death could be spread throughout the world once in every generation, survivors could procreate freely without making the world too full. There would be nothing in this to offend the consciences of the devout or to restrain the ambitions of nationalists. The state of affairs might be somewhat unpleasant, but what of that? Really high-minded people are indifferent to happiness, especially other people’s.

—Bertrand Russell



The argument that resources are limited was demolished by Lyndon H. LaRouche, Jr., in his book, *There Are No Limits to Growth*. He developed the idea of physical economy—Mankind, through our unique creative capabilities, has not only developed new resources over thousands of years, but technological developments also allow humanity to increase the number of people that can be supported at increasingly higher standards of living.

One oligarch influential in the early organizing of opposition to vaccines and pesticides—and promoting purely organic farming, as well as the occult, was Rudolf Steiner (1861-1925). The British 19th Century “Pre-Raphaelite Brotherhood,” influenced by John Ruskin, was the point of

origin for Steiner, as well as Satanists like Aleister Crowley. The “Pre-Raphaelites,” among other things, declared that the works of Raphael and Michelangelo were a “corrupting influence” on art. Their influence spawned the likes of Richard Wagner, Friedrich Nietzsche, and the explicitly satanic “New Age” movement. This ideology is intertwined with the Romanticism of the mid-1700s to late 1800s, which asserted that “feelings,” “spontaneity,” “individualism” were primary; that man should take his inspiration from nature, and that science and rationality have no role in the arts.

Steiner founded an esoteric spiritual movement he called “anthroposophy” in the early 20th Century, which was based on theosophy and Rosicrucianism. Broadly, this is known as “gnosticism,” which at its root teaches that a person can secure personal salvation with direct knowledge of the supreme divinity, in the form of mystical insight (i.e., “never mind the human race—save yourself”).

Steiner worked to establish so-called Waldorf Education—many schools of which discourage the vaccination of children—along with “biodynamic” agriculture and anthroposophical medicine.¹

A *New York Times* article, covering a measles outbreak at the Green Meadow Waldorf School in Rock-

1. <https://www.eastbaytimes.com/2008/05/09/whooping-cough-outbreak-closes-el-sobrante-school-2/>

land County in 2019, reported that Steiner believed that,

diseases were influenced by “astral bodies” and that humans can also breathe through their skin ... [and that] rosemary baths were better for diphtheria [than vaccines] and that smallpox could be avoided by being mentally prepared to confront it.²

The so-called “biodynamic” agriculture was the foundation for what today is known as “organic” agriculture—no pesticides, herbicides or chemical fertilizers—which led to the banning of DDT and the loss of countless millions of human beings for lack of grains and other vital foods (see Janet G. West, “[Rachel Carson](#): Whore of Babylon,” *EIR*, November 30, 2018). This Satanic ideology focuses on “individual survival,” as opposed to “lifting all boats in a rising tide.” It permeates the worldview of the leading anti-vaxxers.

There have always been pockets of opposition to vaccinations, but the movement grew rapidly in the 1970s and ’80s. The intent has never been to create “better” or “safer” vaccines, but to shut them down, and allow disease to spread.

The movement seems to have begun in the 1830s, after one generation had been exposed to vaccinations. Their usual argument was either one of violation of privacy and individual rights, or potentially personal harm; but also, that “healthy” people did not need vaccinations.

Around 1882, one of the first “anti-vaxxers,” Boston doctor Immanuel Pfeiffer, publicly announced that healthy people were not at risk from smallpox. He ostentatiously visited a hospital on Gallops Island in Boston Harbor where infected patients were being quarantined, caught the virus, and nearly died. But he continued to oppose vaccines. His stunt seemed to have inspired others; later that year, smallpox broke out in Cambridge, Massachusetts and the city mandated vaccines. A preacher, Henning Jacobsen, refused to be treated. The city fined him; he sued, arguing violation of his personal liberty, and took the case to the Supreme Court. The Court ruled in 1905 that states can mandate

2. <https://www.nytimes.com/2019/06/13/nyregion/measles-outbreak-new-york.html>

vaccinations.

Organized opposition to vaccines was also ramping up. In 1879, a wealthy businessman named William Tebb (1830-1917) founded the Anti-Vaccination Society of America in New York. Other leagues popped up in Pennsylvania, Maryland and Massachusetts. Tebb was influenced by the ideas of such British reformers as John Bright, Richard Cobden, Robert Owen, and an American “Christian Social Reformer,” Adin Ballou. He was also influenced by the writings of scientist and Swedish Lutheran theologian Emanuel Swedenborg (1688–1772), whose sect advocated “clean living.”

In 1982 anti-vaxxers first began to be given major media platforms. A TV documentary was hosted by Lea Thompson, called “DPT: Vaccine Roulette.” DTP, as the CDC calls it, is a triple vaccine for diphtheria (a bacterial infection), pertussis (whooping cough), and tetanus. The documentary focused on the inoculation’s supposed health risks, told many times through interviews of mothers with sick children, zooming in to a withdrawn or brain-damaged child, with dramatic music for heightened emotional impact on the viewer. Over the ensuing years, numerous health officials, doctors, and researchers have asserted the documentary presented misleading statistics, overplayed risks, and ignored the benefits of vaccination.

One article noted,

The most notable types of anti-vaxxers have claimed that autism and other “profound mental disorders” can be linked to vaccines. This theory was popularized by the British physician-researcher Andrew Wakefield in a paper he published in the *Lancet* [in 1998], and has since been thoroughly discredited. The *Lancet* fully retracted the study in 2010.

Wakefield simply made up the study’s “facts and figures.”

One of the spin-offs from the “Vaccine Roulette” broadcast was the founding of a new anti-vaccination group in 1982, which is the main one nationally today. Originally called Dissatisfied Parents Together (DPT), it is now called the National Vaccine Information Center (NVIC). It was founded by Barbara Loe Fisher and Kathi Williams, two mothers whose children suffered negative side effects after receiving DPT shots, al-

though the cause-and-effect behind these side effects remains to be established.³

Additionally, numerous lawsuits based on these lies alleging “damaging side effects” of the DPT vaccine in particular, spanning years and costing millions of dollars, had the chilling effect of reducing the number of pharmaceutical companies willing to produce the vaccine. In 1960, seven companies made DPT; in 1982, three. And by 1984, just one company.

Barbara Loe Fisher has written a book and several articles, has been appointed to various advisory committees to the U.S. Food and Drug Administration, and has made public comments before several federal agencies, including testimony before several state legislatures and the U.S. House of Representatives. Kathi Williams has also testified before the U.S. House of Representatives, presenting reports of alleged vaccine-related injuries.

Although the NVIC website says the organization is financed by small donations from supporters, one of its major financiers is Dr. Joseph Mercola. His website, www.mercola.com, touts “wellness solutions,” health, fitness and the like, as well as organic farming. He wrote an article in 2017 titled, “Biodynamic Farming and the Legacy of Rudolf Steiner.”

The Slime-Mold Grows Globally

One of the main leaders of the antivaxxers movement in Germany is Dr. Heiko Schöning, who leads an international organization, “Doctors for the Truth” (Ärzte für Aufklärung), which includes doctors, lawyers and other professionals. It participated in the demonstration in Berlin, Germany in August 2020. The organization has a large presence in Portugal and Argentina, in

3. *Deadly Choices: How the Anti-Vaccine Movement Threatens Us All*, by Paul A. Offit, M.D. Basic Books, 2011, p. 40:

“Seizures are more common than most people realize, typically occurring in the first year of life. Indeed, every year as many as one hundred and fifty thousand children in the United States develop seizures caused by fever. Most of these children never have seizures again. However, every year about thirty thousand children, whose first seizure may or may not have been associated with fever, develop epilepsy. When Lea Thompson was putting the pertussis vaccine on trial in the media ... seizure disorders in infants were not very well understood. But, during the next twenty years, neurologists made tremendous strides in sorting out different seizure types based on clinical symptoms, EEG patterns, age of onset, and response to therapies. More important, with the availability of genetic probes, the specific genes that caused many of these epilepsy syndromes were found. As of 2009, the genetics of at least fifteen different epilepsy syndromes had been identified.”



Barbara Loe Fisher, co-founder and president of the National Vaccine Information Center, an anti-vaccination group.

particular. The main argument of these interests is that COVID-19 isn't that dangerous; that masks, social distancing, and applying quarantine standards are unnecessary, and it's all part of an international conspiracy to end democracy and to limit human rights.

Another person who took the lead in those demonstrations in Germany is the 45-year-old Michael Ballweg. He takes responsibility for organizing the anti-lockdown, anti-vax demos in Stuttgart during August 2020. He is part of the so-called “lateral thinkers” movement (“Lateral Thinking 711”), and has expressed sympathy for QAnon. The [website](#) of Ballweg's company, Media Access GmbH, says it has lost some of its biggest sponsors and will soon shut down.

A newly founded German group, “Communication Center for Democratic Resistance” (KDW), also took responsibility for helping to organize the demonstrations, which included a discordant grouping of antivaxxers, right-wing extremists, anti-Semites, and antivivisectionists. Initially, the demos were to protest government restrictions in response to the coronavirus pandemic. The KDW distributes its own 8-page newspaper, founded by Anselm Lenz and Hendrik Sodenkamp, both associated with theater and drama, and sometimes writers and journalists. It is hostile towards the government, the media, and science, issuing verbal attacks on German Chancellor Angela Merkel, the Robert Koch Institute, and virologist Christian Drosten. Drosten is an expert on novel viruses who has re-

cently come to the fore in Germany for methods for reducing the spread of COVID-19).

The United Kingdom doesn't fare any better. Here's a short summary of what appears to be the leadership, or at least prominent spokesmen at the demonstrations in London in 2020:

- **David Icke**, born 1952, British. In the 1980s, he moved toward New Age "alternative medicine" to relieve his arthritis. During that time, he visited a psychic healer, Betty Shine, who told him that he was born to heal the world; later, he received "psychic messages" that he was a "Son of the Godhead." He has written numerous books, such as *The Phantom Self*, and *The Robots' Rebellion*; his biggest "theory" is that an ancient alien race of reptilians interbred with humans. He says that COVID-19 is a hoax.

- **Betty Shine** (deceased) was a member of the Rosicrucian cult, which uses the term "Son of God" to mean one among those who have "purified themselves" and risen to a "higher level of consciousness." This outlook is tied philosophically to a French philosopher, Édouard Schuré (1824-1929), who published Rudolf Steiner's lectures.

- **Piers Corbyn** is the elder brother of former Labour Party leader Jeremy Corbyn. He also declares that COVID-19 is a hoax, claiming that it is a "psychological operation to close down the economy in the interests of mega-corporations."

- **Dr. Vernon Coleman** was born in 1946, and also is British. He became a doctor and a general practitioner, but lost his license in 2016. An avid vegan and libertarian, he believes that AIDS and COVID-19 are both hoaxes. Coleman is now a self-publishing author on Amazon, with one book titled, *Anyone Who Tells You Vaccines Are Safe and Effective Is Lying*.

In South America, the activists who lead these groups in Argentina are Drs. Chinda Brandolino and Roxana Bruno. They agree with the arguments put forward by Doctors for the Truth (Dr. Brandolino is also a member of it), and promote the "miracle cure" of ingesting chlorine dioxide, often advertised as "Miracle Mineral Solution" or MMS.

Chlorine dioxide is an industrial bleach used extensively in medical and agricultural applications, as well as in water treatment. The website chemicalsafetyfacts.org warns:

Claims that chlorine dioxide is a treatment or cure for medical ailments such as autism, HIV,

malaria, hepatitis viruses, influenza, common colds, cancer, or other diseases/ailments are not backed by science. Consumption of chlorine dioxide solutions, such as MMS, can cause nausea, vomiting, diarrhea, and severe dehydration. These products should not be consumed or given to someone to consume. The sale of these products as miracle cures is dangerous and has resulted in criminal convictions.

Dr. Roxana Bruno is an immunologist who asserts that since the "risks" of wearing a mask to prevent the spread of COVID-19 haven't been fully investigated, the mandatory wearing of masks should end. In August 2020, in an interview with Fernando Bravo in Paraguay for Radio Continental de Argentina, she asserted that the development of the COVID-19 vaccine is skipping stages; that the COVID-19 virus (SARS CoV-2) couldn't be isolated; that there was no testing of the vaccine on animals; and that the PCR tests are not specific enough to detect the virus. None of these assertions stands up to scientific standards.

Towards an Inoculation for Stupidity

Although our knowledge of the Universe is (hopefully) moving in the direction of being ever less imperfect, the charlatans among us can always count on having followers as long as there are people whose culture places them in opposition to science and gives them the identity of helpless victims without political power. If one is only concerned about "me, my family, my community, my people," one can be manipulated around defending those perceived interests by the oligarchy.

Look at the mindset of Louis Pasteur, Madame Marie Curie, Dr. Jonas Salk—what is the nature of their sense of identity? Didn't they see themselves as "world-historical" persons, with a sense of responsibility to the human race and to God? Didn't they also have a sense of mission, and a sense of agapē for humanity? Marie Curie reflected on her own discovery:

We must not forget that when radium was discovered no one knew that it would prove useful in hospitals. The work was one of pure science. And this is a proof that scientific work must not be considered from the point of view of the direct usefulness of it. It must be done for itself, for the



Flickr/Bruce Stokes

“The mind is the image of God, in that it is capable of Him and can be partaker of Him.”
—St. Augustine. A view of Santa Maria del Fiore Cathedral in Florence, Italy.

beauty of science, and then there is always the chance that a scientific discovery may become like radium, a benefit for humanity.

The General Welfare principle, as articulated in the Preamble to the Constitution of the United States of America, is a universal principle which may be applied in any nation worthy of the name; where it is ignored, the people suffer.

There is also a universal principle in Christianity, *capax Dei*, defined by the great St. Augustine as “The mind is the image of God, in that it is capable of Him and can be partaker of Him.” This principle is apparent in Judeo-Christian culture as well as in other religions such as Islam, which expresses it in the concept of *is-tikhlaf*—the concept that the Creator decrees that Man is the crown of Creation, and is a representative of the Divine Will and Reason on Earth (The *Holy Qu’ran*, Surah 2, “The Calf,” verses 29-33—depending upon the translation).

It also alive in the Confucian culture of China, through people such as Zhu Xi, the 12th Century genius who was the core person in the Sung Dynasty Confucian Renaissance, and whose ideas and writings became

the core of the Confucian examination system until the revolution of 1911. In his *Reflections on Things at Hand*, Zhu Xi says:

The mind of Heaven to produce things is *ren*, 仁. In man’s endowment, he receives this mind from Heaven, and thus he can produce. Therefore, man’s feeling of commiseration is also a principle of production.

Ren is understood as equivalent to love of humanity or *agapē*.

This principle makes the human being responsible to the Creator (and implicitly to posterity) for actions as well as inactions, as in a loving relationship of a child with his or her parent; mankind participates with God in ongoing Creation. This can create the basis for peaceful cooperation

among nations with the common aim to benefit mankind.

The opposite is the case with those fools who are manipulated to become agents for anti-vaxxers. Characteristically pessimistic, they take no responsibility for the effect of their actions upon the world, especially not for those actions increasing the death rate and misery of humanity.

As more countries report new mutations of the coronavirus, humanity could be facing a species-threatening pandemic. Reality imposes on us the truth that it is not a matter of individual or even national survival. Nations must begin to cooperate—led by the United States, Russia, China and India—to solve this crisis, adopting Helga Zepp-LaRouche’s call for a world-wide system of modern health care.

As Louis Pasteur, the “father of microbiology,” said, “Science knows no country, because knowledge belongs to humanity, and is the torch which illuminates the world.” And, it is through science that mankind has overcome challenges in the past, and can resolve these current crises.

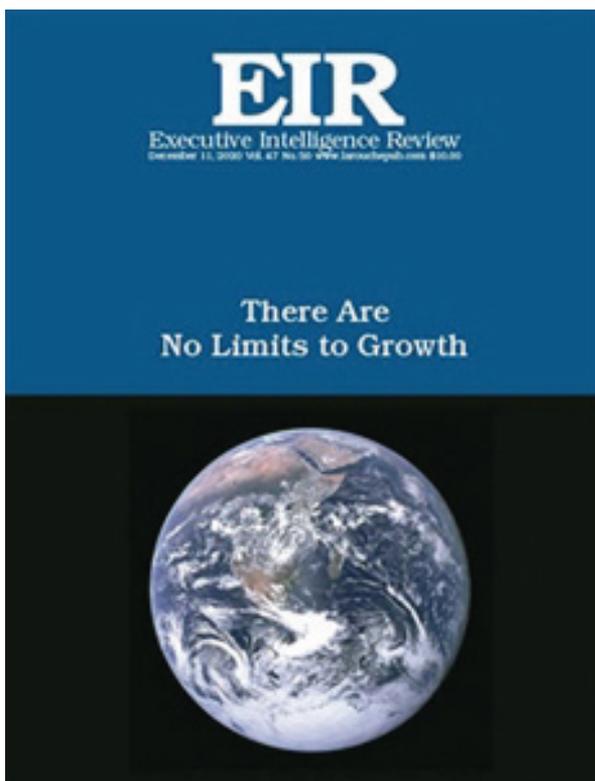
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