



LAROUCHEPAC 2018
CAMPAIGN TO WIN THE FUTURE

LAROUCHE'S FOUR LAWS FOR ECONOMIC RECOVERY

A NEW PARADIGM FOR MANKIND



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Acknowledgement: This pamphlet is the work of a LaRouche PAC task force including Barbara Boyd, Jason Ross, Matt Ogden, Alicia Cerretani, Ben Deniston, Megan Beets, Dave Dobrodt, Adam Sturman, and Bill Roberts. It is based on the work of Lyndon LaRouche, whose economic science and political program remain the very best perspective for America.

The End of Partisan Politics

In a speech that would soon prove prescient, on September 20, 2012, in celebration of his 90th birthday, Lyndon LaRouche discussed the impending end of partisan party politics in the United States and the challenge this posed to the individual citizen — to you — to take leadership. This dynamic would soon manifest itself, to the absolute confoundment and amazement of most, in the 2016 election of U.S. President Donald Trump, who had made himself the sworn enemy of both parties' elites.

LaRouche asserted that the conflict between the old paradigm of the decadent and dying Wall Street and City of London speculative monetary system, which had imploded in 2008, and the fledgling new paradigm, struggling then to be born, would result in the destruction of the two-party system in the Unit-

ed States. Ossified and corrupt political structures would be fatefully challenged by a population which had had enough and would reject the agenda of both political parties which were only out to preserve their dying system, even if that meant world war. However, once this was accomplished, LaRouche said, the citizens of the United States would face a challenge: Would they organize and educate themselves through a principled dialogue concerning the future direction of our nation as required by the U.S. Constitution? Would they take actions consistent with the intent of our Constitution to revive and direct our damaged nation into a prosperous future?

Now, in 2018, we face a turning point in the dynamic to which LaRouche gave voice at that birthday event. Both decadent political parties, rejected by the voters in 2016, have mobilized to reverse the results of that very same 2016 election. The Republican establishment hated Trump and ran against him. The Democratic Party not only despised him but labeled the millions of people who voted for him, including millions of Democrats, racist, sexist “deplorables.” Now they intend to use the midterm 2018 elections to gather sufficient seats in the House of Representatives and the Senate to impeach the President.



Lyndon LaRouche delivers his prescient 90th birthday speech on September 20, 2012, discussing the necessary death of the corrupt two party system and challenging citizens to rise to the intellectual and political combat standards of our forefathers.



Donald Trump, whose election as U.S. President is part of a global transformation from business-as-usual towards a potential for a new paradigm of relations among nations. Photo by Gage Skidmore.

Why Trump Won

Donald Trump campaigned against central planks of Republican orthodoxy, saying he was the champion, like Franklin Roosevelt, of the “forgotten American” in the misnamed and financially abandoned “fly-over” country, the formerly agricultural and industrial heartland of the United States situated between the liberal coasts. He favored the restoration of the Glass-Steagall banking regulation which would end Wall Street’s casino economy, and he embraced by name the American System of economics created by Alexander Hamilton.

Trump’s most resonant campaign promises were two: huge new infrastructure projects to drive U.S. economic development with a revival of manufacturing on a modern platform, and a return to collaboration between sovereign nation states pursuing common interests, rather than the globalist system pursued by Bush and Obama. Trump specifically called for improved relations between the United States and Russia and an end to the endless decades of perpetual regime change wars.

These *ideas* are what won the 2016 election. Not a paltry \$100,000 of crude Russian Facebook ads. Not the hoax surrounding the claim that the Russians

hacked the DNC’s computers. Not James Comey. It was candidate Trump’s economic ideas and pledge to end America’s endless wars that struck a chord with the voters. By contrast, Hillary Clinton and Barack Obama told working and middle class Americans, ravaged by suicide, opioid addiction, and despair, that they had never had it so good. America’s political class and its bankrupt parties stood ruined as a result, just as LaRouche said they would.

Since the election, the political establishment has warred with Trump, softly seeking to cage and bend him into following their Wall Street financial policies and interventionist foreign policies while wielding the club of an ongoing coup. New smears and attacks against this President seem to appear on an hourly basis. He is being stalked by an amoral independent counsel, Robert Mueller, armed with an unlimited hunting license. Once again, the cheap identity politics championed by Hillary Clinton, Barack Obama, and Republican stalwarts circumscribe and debase our political discourse. The news media has become a vehicle for an incessant propaganda campaign against the duly-elected President. However, unless Americans rise above the controlled political dynamic that this ongoing coup attempt is intended

to foster, its instigators will have achieved their fundamental purpose: the demoralization of those who revolted in 2016. LaRouche's call to citizens to take individual responsibility for the fate of the nation, for the future, stands unanswered. As a result, the big ideas of 2016 have been shelved as the President tacks and reacts, simply to live another day.

The Coup Is Destroying the Nation

We see the real damage every day. As the LaRouche PAC's lead 2018 endorsed candidate, Kesha Rogers, campaigns in Texas' 9th Congressional District, she witnesses the poverty of large swaths of voters and the enforced homelessness resulting from the damage wrought by Hurricane Harvey and Houston's historic floods. This was a human disaster that never had to happen. The infrastructure plans to prevent such damage — from the known threat of hurricanes and flooding — have been drawn up and ready to go for years. But somehow, the "money" to preserve human life has not been there. Now the money can't be found even to do repairs. How has Rogers' opponent, Al Green, spent his time since the floods devastated his constituents? He has been drawing funds and media attention to himself from

Washington D.C. PACs and liberal donors, by leading the drive for Congressional Democrats to impeach President Trump.

This does not even take into account the opioid epidemic which has engulfed the de-industrialized areas of our country and threatens the survival of entire swaths of our population. Journalist Sam Quinones, author of a best-selling book about the drug epidemic, *Dreamland*, testified before the Senate Health and Education Committee in January, 2018. He called for a crash program to confront the crisis based on the Marshall Plan and the Space program, and for large-scale infrastructure development in the economically ravaged areas of the country where drugs, despair, and purposelessness, are literally killing people every day. The Senators simply ignored any discussion of Quinones' solution. Again, the "money" for an actual solution can't be found.

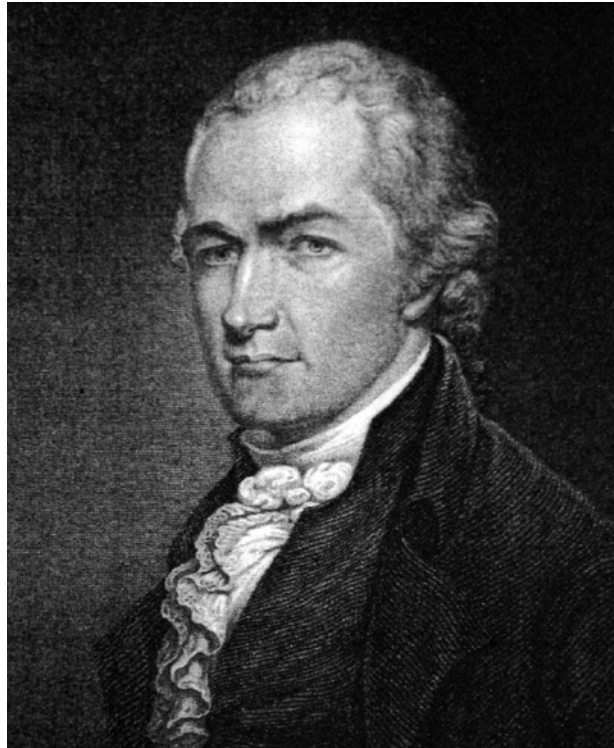
True American Economics

Alexander Hamilton would look in horror at what has become of the United States he helped to found. His system of economics, enshrined in our Constitution, recognizes that the source of economic wealth is the development of the productive powers of labor,



Kesha Rogers, endorsed by LaRouche PAC, is running as an independent in the 9th C.D. of Texas. Her district, devastated by Hurricane Harvey now has many homeless residents waiting for necessary repairs to their homes. Her opponent, incumbent Al Green, grandstands about impeaching Trump while doing nothing to end the suffering in this district.

the genius which results in fundamental scientific discoveries. To create structures capable of acting on a national basis to achieve such development, Hamilton's system mandates that the Congress — responsible for large-scale improvements in national productivity — create credit rather than borrowing money from predatory banks operating only to enrich themselves. By directing that credit through a national bank and the private banking system, it is possible to fund those infrastructure projects and fundamental scientific endeavors essential to create sustained economic growth in the long term, over spans of two or more generations.



Alexander Hamilton, first Treasury Secretary of the United States, and founder of the American System of Economics. Throughout our history, whenever Hamilton's methods have been used, the country flourished, becoming the world's economic powerhouse and building much of the infrastructure we are still using now.

In order to overcome the Great Depression, and to prevent the types of financial mania typical of the 1920s, Franklin Roosevelt enacted the Glass-Steagall Act in 1933. This law ensured the stability of the commercial banking sector and its ability to function as a source of credit for the expansion of the economy. Glass-Steagall achieved this objective (for over half a century) by protecting and insuring the lending activity of our country's banks, while completely separating off their speculative activities.

After the 1999 repeal of Glass-Steagall, the large Wall Street banks—allied with the City of London—have looted the real economy through reckless speculation. This resulted in the 2008 economic collapse from which this country has not recovered. We are now facing a new collapse as Wall Street and the City of London have continued their reckless policies and built a new and even bigger bubble.

The LaRouche Approach

The present economic disaster of the United States demands a solution that cannot be found within

the axioms of economic courses or textbooks. We must turn to Lyndon LaRouche, whose unique economic discoveries set the stage for his remarkably accurate forecasts and the fundamental science of physical economic growth which he spent his lifetime developing. LaRouche built beyond Leibniz's understanding of *technology* and Alexander Hamilton's recognition of the central role of increases in the *productive powers of labor* as the source of economic wealth, to create a qualitative measurement for economic progress, "potential relative population density."

LaRouche locates the only source of economic wealth — indeed, the

very basis for the existence of that uniquely human phenomenon known as "economy" — in the discovery of universal principles of nature that change our relationship to nature itself. From the controlled use of fire, which first set our species apart from the beasts, to the electric fire studied by that "American Prometheus," Benjamin Franklin, the entire history of human development is one of creating new resources by expanding our knowledge of previously unknown universal principles, allowing us to apply our creative discoveries to bring about entirely new states of matter and an improved human environment.

In 2014, from his knowledge of the true ABCs of economy (and his absolute rejection of the clap-trap masquerading under the name "macroeconomics" in universities), Lyndon LaRouche distilled the needed *policy outlook* into what he called his "Four Laws for Economic Recovery."

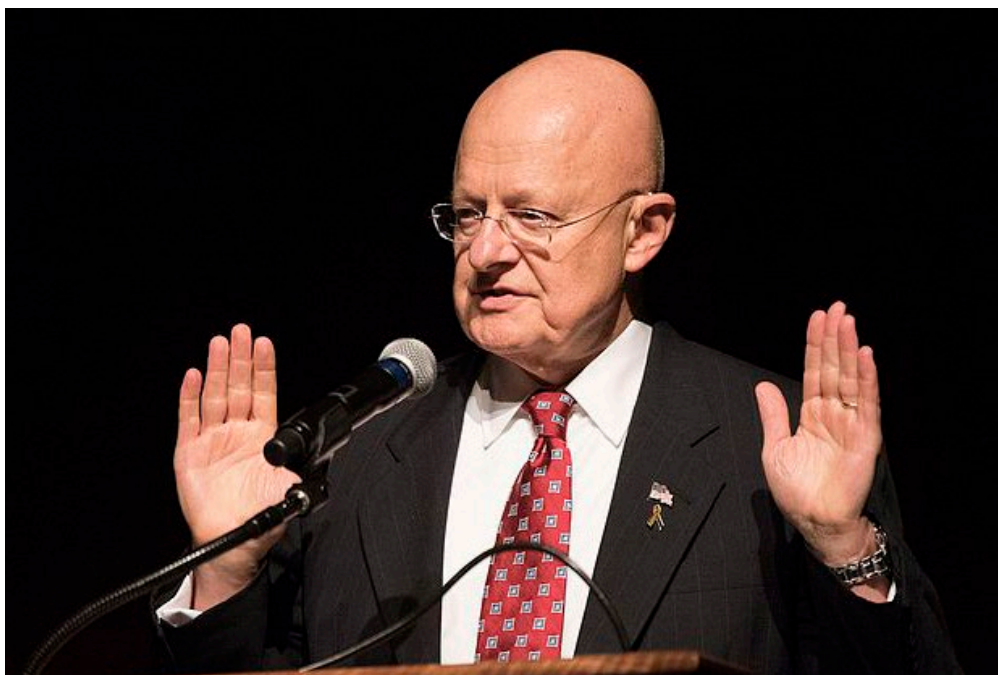
LaRouche's "Four Laws" mandate actions to be taken to bring the U.S. economy into coherence with the actual scientific laws governing economic prog-

ress. A credit system, like that employed by Hamilton, Lincoln, and Roosevelt, is used to fund large-scale economic projects, such as modern and new infrastructure, if they raise both overall productivity and living standards. Examples from our history are Roosevelt's Tennessee Valley Authority and John F. Kennedy's space program. A crash program to develop fusion energy, a cheap, powerful, and essentially unlimited energy source, will transform our relationship to raw materials: to water, to energy, and to fusion powered space exploration, allowing us to literally leap into a modern, future economic platform, from the post-industrial scrap heap we have become. Restoring Glass-Steagall is the remedial measure which stops Wall Street's speculative casino from literally robbing the economy of the resources necessary to grow.

The Final Stages of the Coup

As the 2018 midterms approach, the most cowardly and compromised of the Republicans are resigning, fleeing the Congress in droves, virtually handing their seats to Democrats. Meanwhile, the Democratic Party of Franklin Roosevelt and John F. Kennedy ceased to exist long ago. Its replacement by lunatics advocating war with Russia and China and the police state measures of the modern surveillance state is a remarkable, if terrifying, development.

Former President Obama's Director of National Intelligence James Clapper lied to Congress about his role in the coup. He choreographed the infamous January 6, 2017 meeting in which the dirty British intelligence product, the Christopher Steele dossier, was used in an attempt to blackmail Trump into changing his views on Russia. It was this meeting that former FBI Director James Comey tellingly described in testimony to Congress as his "J. Edgar Hoover moment." James Clapper had previously leaked the dirty British dossier to CNN but told Congress he never leaked. Otherwise, he has made the racist claim that Russians are "genetically predisposed" to attack the United States.



Impeachment, in this context, would be the end of the United States as we know it, whatever view you may hold of President Donald Trump. Impeachment will be the final stage in a criminal act against the Constitution — a coup instigated by a foreign power, the British, in cahoots with the departing President, Obama, and his intelligence chiefs. We are witnessing a regime change operation in our own country — something we do to countries throughout the world — which will overturn the will of the people of the United States, as constitutionally expressed in the 2016 election. There is no possible redemption from such a monstrous and grave offense against our Constitution.

As Lyndon LaRouche had forecast in that 90th birthday speech, the established parties were in a process of self-destruction, a process which culminated in 2016 with Trump's election. They are now seeking to reemerge, riding on a wave of criminal and unconstitutional actions against a sitting President. Will the citizens now organize to bring the nation to safer shores, to institute the economic and foreign policies necessary to ensure a secure and prosperous future?

We are proposing LaRouchePAC's Campaign to Win the Future to catalyze precisely that result, to secure that for which most Trump and Bernie Sanders voters voted in 2016.



The LaRouchePAC 2018 Campaign to Win the Future

Our program is simple. **Anyone seeking a House or a Senate seat must:**

- (1) Pledge to end the coup against President Trump,**
- (2) Pledge to support the President joining the United States to China's Belt and Road Initiative (BRI) to develop the world, and**
- (3) Pledge to support Lyndon LaRouche's "Four Laws for Economic Recovery" of the United States.**

This program not only fulfills the intent of most voters in 2016; it ensures prosperity and profound human progress over the next two generations. If a candidate campaigns on this platform, he or she deserves our support. Oppose this platform and we will do everything possible to ensure you are not elected.

We are taking this program to the nation's constituency leaders: the mayors, the business owners, the legislators, the union leaders, the farm organizations, police officers, firefighters, teachers, doctors and

nurses, engineers and scientists — the natural leaders of those directly producing the nation's wealth — and the young. We aim to form a producers' coalition behind the principles embodied in this program, replacing the tired identity politics and vacant economic promises of the former political parties. Like the Committees of Correspondence which communicated the profound ideas of the American Revolution, our campaign is about education, about creating the historical and scientific literacy in the population actually necessary to win the country back.

We believe that the forces of history, of natural law, operating in 2016, remain on our side and a spirit, unknown and unappreciated by Washington's stupid pundits and corrupt political class, remains loose in the land. We see it every day as we talk to people. They are fed up with Washington. They are fed up with the coup. They long for purpose in their lives. They are struggling to understand how we got to this place and they long for truth. They are reading, and discussing, and arguing profound ideas. They are inspired when you tell them the truth.

JOIN THE CAMPAIGN: **LPAC.CO/FUTURE**

Ending The Coup Against Trump

Nothing of any truth about the current assault on President Trump can be understood, unless one addresses the question of why all of this is occurring, along with the subsumed question: “cui bono?” This requires transcending the world of partisan politics and inside-the-beltway gossip, instead examining the strategic setting and implications surrounding the coup plot.

The driving force of the coup is that the West is stuck in the old paradigm of international relations, the old zero-sum game of “If I win, you must lose.” The rise of China as an economic power and Putin’s revival of Russia as a strategic force have occurred at a point when the West’s financial systems have collapsed and face an implosion worse than the 2008 financial collapse.

Since August 15, 1971, the day the post-World War II “Bretton Woods” system officially died, the world’s financial system has been controlled by the City of London Corporation and its junior partner, Wall Street. The City of London has little to do with those who inhabit London, or the residents of Britain

generally. Rather it is the London-based corporation which presides over a global financial empire featuring secret offshore funds, drug money, and the speculative financial flows that have sucked the life out of the real physical economy of the world’s nations. It is the successor of the British East India Company, that vehicle for the world’s oligarchs, against which the American Revolution was fought.

If you are asking how our country decided it had entered a “post-industrial” era, look no further than City-sponsored think tanks and university departments. If you are wondering how we abandoned the idea that each generation lives and works to assure that the next generation makes fundamental progress and instead adopted a culture of instant gratification, entertainment, and the equivalent of Roman circuses, the answer is the same. The City of London system is the antithesis of the nation state, of the American constitutional republic of Washington and Hamilton, of the educated and thriving citizenry freely taking responsibility for the nation’s fate envisioned by the American system of government.

In this strategic geometry, President Trump’s support of peaceful collaboration with Russia, expressed repeatedly both during his campaign and as President, his development of a personal friendship with China’s President Xi, and his indication that he might accept President Xi’s invitation to join China’s Belt and Road Initiative, make him an existential threat to the City of London, a marked man.

Trump completely scrambled the British plans, endorsed by both Obama and Clinton, for subjugating Russia and China, by force, if necessary. Trump’s endorsement, on the campaign trail, of the American System of economics and Glass-Steagall, which would end the casino economy, sealed the deal. The coup will continue



Chinese President Xi Jinping and U.S. President Donald Trump are greeted by a cheering crowd of children during Trump's visit to China on November 8, 2017. President Trump has cultivated a close personal relationship to President Xi, a relationship that is hated by the Washington, DC establishment. If the two largest economies in the world can collaborate on great development projects for the world, mankind will find itself in a new human renaissance. Photo: White House



Christopher Steele, Sir Richard Dearlove, and Robert Hannigan (left to right). These are the British intelligence authors of the attempted coup against President Donald Trump. Steele is a protégé of Dearlove, whose MI6 lies facilitated the disastrous Iraq War.

as long as British geopolitics and the casino economy remain the model for how the United States conducts foreign and domestic policy. These policies are what must be defeated by those opposing the coup.

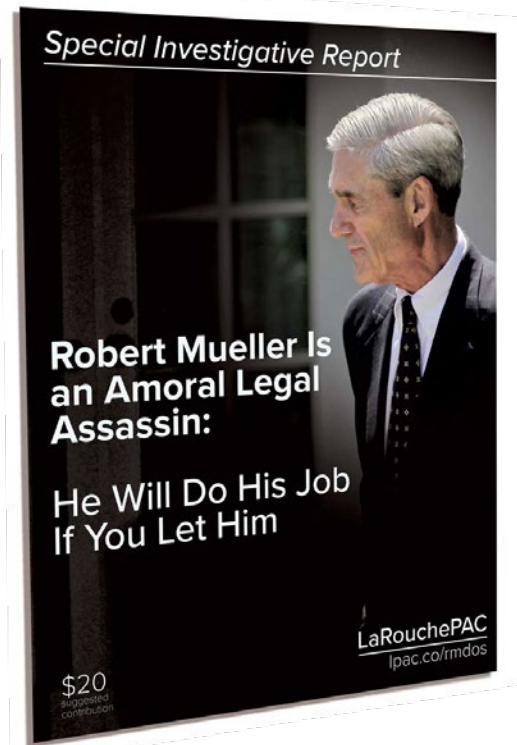
The British Hand Behind the Coup

The “Russiagate” coup against Trump was instituted through a concerted British information warfare operation conducted by British MI6 agent Christopher Steele, assisted by former GCHQ head Robert Hannigan, and shepherded by Sir Richard Dearlove, the former MI6 head intimately involved in fabricating the lies which led the United States into the disastrous Iraq War. Steele authored the bogus dirty dossier claiming that Donald Trump was in Putin’s pocket and that Trump and Putin were colluding to steal the election. Steele’s work was paid for by the Clinton Campaign and the Democratic National Committee and coordinated with the media by Barack Obama’s White House and intelligence chiefs, John Brennan and James Clapper.

From there it went from the State Department’s Victoria Nuland and Jonathan Winer, who worked with Christopher Steele on the U.S. coup that overturned Ukraine’s elections, to partisan and dirty cops at the top of Obama’s Justice Department and FBI. FBI Director James Comey, FBI Deputy Director Andrew McCabe, Attorney General Loretta Lynch, Deputy Attorney General Sally Yates, and others brought the law enforcement weaponry of the U.S. government full bore against the insurgent presidential campaign and Presidency of Donald Trump. Here too, Christopher Steele and his British colleagues already had long-standing connections, having collaborated for years on dirty intelligence operations, thinly disguised as enforcement actions against Russian organized crime.

The British thread runs throughout the coup attempt against Donald Trump, the duly elected President of the United States.

Now, the City of London wants the U.S. to go to war with Russia and China rather than change their failed post-World War II order, an economic and strategic order which has devastated both our country and much of the world. We must reject conflict with Russia and China, instead embracing the tremendously successful New Paradigm of economics and country-to-country relations embodied in China’s Belt and Road Initiative.



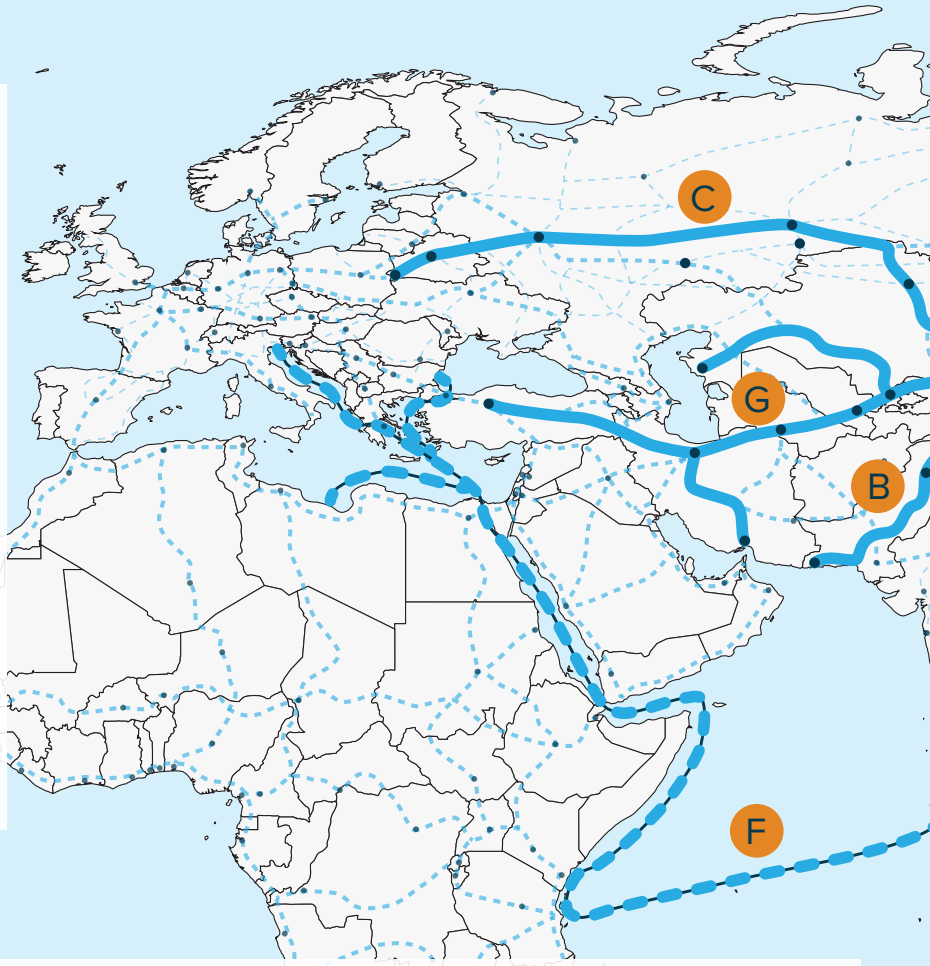
This LaRouchePAC pamphlet from September 2017, documenting definitively the true origins and motives of the attempted “Russiagate” coup operation, is available at: lpac.co/rmdos

China's New Silk Road

Belt and Road Initiative compared against the World Land-Bridge

G) China-Central & West Asia

In June 2015 China and the five Central Asian countries agreed to “jointly build the Silk Road Economic Belt,” and additional routes will go into Afghanistan, Iran, and Turkey. In Uzbekistan, China Railway Tunnel Group has completed the longest tunnel in Central Asia. In Afghanistan, a new rail connection with China will shorten three-to-six month cargo transport times to only two weeks. The travel time from Eastern China to Iran will be cut in half.



F) The Maritime Silk Road connects China with the Indian Ocean, Southeast Asia, Eastern Africa, Southwest Asia, and Europe, bringing a network of deepwater ports, industrial zones, oil and gas facilities, railway lines and critical projects in Africa.

Ethiopia and Djibouti - The new Chinese-built Ethiopia-Djibouti railway marks a milestone in cooperation between China, Ethiopia and Djibouti, employing 25,000 Ethiopians and Djiboutians in the construction of the 470-mile Addis Ababa–Djibouti line, with more being trained to run the rail systems.

Kenya - The Standard Gauge Railway will replace Kenya's existing railway (built in 1899 for the purpose of colonial extraction) and transform Kenya's Mombasa port, taking cargo and passengers to the Ugandan border in one-tenth the time it takes by road transport.



A) China-Mongolia-Russia Corridor

In June 2016, the three presidents signed a trilateral economic partnership agreement at the 11th SCO meeting, consisting of 32 proposed projects, and finding harmony between Russia's Trans-Eurasian Belt Development plan, Mongolia's Prairie Road program, and China's BRI.



B) China-Pakistan Corridor

Highway, railway, oil and natural gas pipelines, and fiber optic projects will equal the value of all foreign investment into Pakistan since 1970, creating 700,000 direct jobs, 10.4 gigawatts of power, and transportation routes that will cut the trade distance between China and Europe, Africa, and the Americas by 2,000 miles.



C) New Eurasian Land-Bridge

Goods from central China are reaching Western Europe in 2 to 3 weeks, rather than 5 weeks by ocean. By mid-2016 over 2,000 rail shipments carried \$17 billion in goods between China and Europe. Additional developments include the China-Belarus industrial park and a new connection between Central and Southern Europe with the Hungary-Serbia railroad.



Kabeljäger
David Gubler

E) Bangladesh-China-India-Myanmar

In December 2013, the Bangladesh-China-India-Myanmar Economic Corridor Joint Working Group convened its first meeting in Kunming, China. The multi-modal corridor will be the first expressway between India and China. Passing through Bangladesh and Myanmar, the corridor covers 1.65 million km² and encompasses 440 million people.



D) China-Indochina Corridor

Plans for transportation systems to connect ten of the largest cities in the region and additional infrastructure projects, including Cambodia's Sihanoukville Economic Zone, nine cross-national highways, the Nanning to Hanoi rail line, the China-Laos railway project, the Jakarta-Bandung high-speed rail, and the Singapore-Kunming rail link.



America Must Join The Belt and Road

If a country is planning its basic economic infrastructure 50 years into the future with the idea that actions taken in the present will be viable two generations from now, what would that country look like? What if we could travel great distances by high speed rail and reach beautiful new city centers with surrounding new urban and cultural areas? Are we really stuck pasting together old systems with old components, or can we find a way to build entirely new rail, ports, bridges, and other fundamental infrastructure? What if we dramatically upgraded our productivity, making good housing in

beautiful cities affordable at reasonable prices? What if we devoted a substantial part of our national budget to science and fundamental research without the sharks of Wall Street telling us what we can and cannot think or dream about? What kind of education system fosters creativity rather than producing stupidity and dead souls as a result of drill and grill memorization? What if we mobilized our resources and our population to end poverty both in our country and world-wide?

These are the type of ideas and questions which leap from Americans who have traveled to China and witnessed what is happening there. China's new paradigm of economic development and cultural optimism, coincident with its gigantic Belt and Road Initiative, makes those stuck in the dying British-sponsored post-World War II "world order" apoplectic. The United States has been invited to join in this Initiative, the largest infrastructure building project ever undertaken. President Trump continues to entertain that offer despite strong opposition from the present Congress, Wall Street, and most of his major advisors.

If we join the Belt and Road Initiative, our own economic prospects instantly improve. China could



The Belt and Road Initiative, officially launched by Chinese President Xi Jinping in 2013, is in the spirit of proposals made by Lyndon and Helga LaRouche for decades. It entails the investment of trillions of dollars into infrastructure and connectivity projects around the world. By means of a Bering Strait connection, the United States could be brought fully on board.

invest its vast holdings of U.S. Treasuries as stock in a new United States National Bank, such as that mandated by LaRouche's "Four Laws for Economic Recovery" — a bank organized to direct funds to jump-start gigantic infrastructure projects here in the United States. The United States could join China in Great Projects developing the world, creating thousands of high paying jobs for U.S. firms.

There is no better guide to China's grand project, and its historical significance than Helga Zepp-LaRouche, the Founder and President of the Schiller Institute. Because of her tireless campaigning for the concept of the "New Silk Road" development project now reflected in significant respects in the Belt and Road Initiative, she is known as "the Silk Road Lady" in China. Here we print an abridgment of remarks she made on November 25, 2017, to a Schiller Institute conference in Bad Soden, Germany. Her full presentation is available as a video:

Video: Helga Zepp-LaRouche
Keynote at Schiller Institute
Conference in Germany
lpac.co/hzl-nsr





On November 29, 2017, Helga Zepp-La-Rouche was one of the featured speakers at the 21st Century Maritime Silk Road Forum in Zhuhai, Guangdong, in China. She presented a speech titled "The Belt & Road and a Dialogue of Cultures Based on Their Higher Expressions."

By putting the notion of the one mankind, defined from the standpoint of our common future, as the reference point as how to think about political, economic, social and cultural issues, President Xi Jinping has established a higher level of reason, a conceptual basis for a peace order on the whole planet.

Helga Zepp-LaRouche



The Actually Optimistic Present

Helga Zepp-LaRouche: Let me begin with an idea developed by Gottfried Wilhelm Leibniz. He said that we are actually living in the best of all possible worlds. This is a very fundamental ontological conception. It is the idea that we are living in a developing universe, that what makes the universe the best of all those possible is its tremendous potential for development. And it is created in such a way, that every great evil challenges an even greater good to come into being.

I think when we are talking about the New Silk Road and the tremendous changes which have occurred in the world, especially in the last four years, it is actually exactly that principle which is working. Because it was the absolute, manifest lack of development under the old world order, which caused the impulse of China and the spirit of the New Silk Road to catch on, so that now many nations of the world are absolutely determined to have development to give a better life to all of their people.

Now, I think that the New Silk Road is a typical example of an idea whose time has come; and once an idea becomes a material reality in that way, it becomes a physical force in the universe.

I personally had the chance to see how it spread, after President Xi Jinping announced the New Silk

Road in 2013 in Kazakhstan. I visited China in 2014, and at that point there were still only a very few officials discussing it. But then it spread very rapidly. There were industrial fairs in all the cities of China; there were hundreds of international symposia; the BRICS countries started to join in the same spirit, as did the Shanghai Cooperation Organization (SCO); altogether, more than 100 large nations and international organizations joined in support. This was evident in the Belt and Road Forum this past May, where twenty-nine heads of state spoke and 110 nations participated.

This has generated a completely optimistic perspective. Xi Jinping announced that China will be a country in which poverty is completely eradicated by the year 2020. I think that is wonderful! And it is absolutely to be believed, because China has had an incredible economic miracle, in which it lifted 700 million people out of poverty. China now has only 42 million poor people left, so why should it not succeed in totally eliminating poverty by the year 2020? By 2035, China is to be a great modern country of socialism with Chinese characteristics, which in my view means predominantly Confucian characteristics. And by 2050, China will be—according to Xi Jinping—"a great modern country of socialism with Chinese characteristics, prosperous, strong, democratic, culturally advanced, harmonious, and beautiful."

Now the Chinese media announce very proudly that this is a grand vision for the future. A new era has dawned. Xinhua wrote that “China will make a new and greater contribution to the noble cause of peace and development for all of humanity.” Well, it is very easy for the Chinese people to understand that, because the whole country is already united around this mission. There are many people in the West who have also understood that, either because they have investments in China, or because they know that the New Silk Road is the largest infrastructure program in history. It is already now twelve or maybe even twenty times larger than the Marshall Plan was in the postwar period, but without its military connotation.

The Blindness of Western Elites

But of course, there are also those in the West who are completely opposed. Right now, a fight is going on between the old paradigm of geopolitics and the New Paradigm of the one humanity. The representatives of the old paradigm say, “Oh, what Xi Jinping is saying is just empty propaganda. The real intention of the Chinese is to replace the United States as the hegemon. Xi Jinping is a dictator. He just wants a system that is a threat to the Western model of

market-oriented democracy, and therefore, it is bad.”

When these people criticize China, what you can see is that they are projecting their own intentions and viewpoints onto China and the New Silk Road. These people in the West who are attacking China, cannot imagine the existence of a government which is truly devoted to the common good and a harmonious development of all people, because they think that the world is a zero-sum game—that if one wins, the other has to lose, and that they have to control the rules in order to be able to rig the game in their favor. They believe that if you can’t do that, you are a loser.

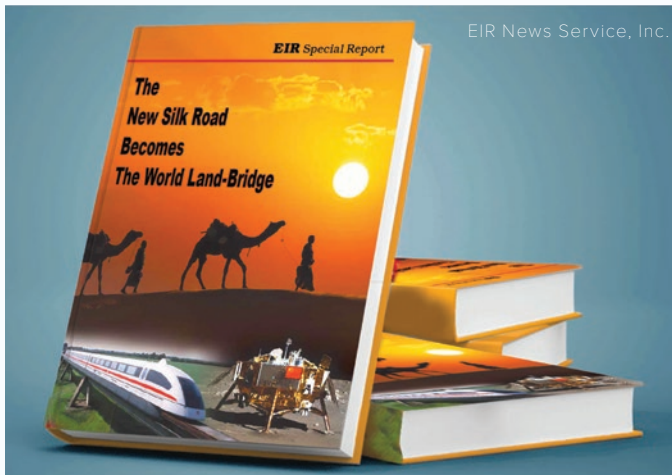
In 2014, we published a study called *The New Silk Road Becomes the World Land-Bridge*. That is exactly what is happening. What started with just the old Silk Road line between China and Europe, is now very quickly developing into six major land development corridors.

Freight trains already run from China to different European locations over 40 rail lines every week. The 16+1 countries—that is, the Eastern and Central European countries and China—are having a conference right now in Budapest. They are completely on-board the collaboration with the New Silk Road. There is a new Balkans Silk Road. The President of Panama was just in China after Panama switched its diplomatic

FULL REPORT AVAILABLE:

THE NEW SILK ROAD BECOMES THE WORLD LAND-BRIDGE

Executive Intelligence Review has released a comprehensive study of how the New Silk Road, now being championed by China, must be expanded to become the World Land-Bridge, a global development perspective originally conceptualized over two decades ago by Lyndon and Helga LaRouche. This 374-page full-length special report is nothing less than a “road-map” to the creation of a new international economic order and a new system of peaceful relations between nations on this planet — a new paradigm of development, which the United States must urgently join.



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relations from Taiwan; now they are allied with the mainland. The President of Panama said that all of Latin America will join the New Silk Road, and that this is not directed against the United States, because the United States is also invited to join.

But the most important shift, of course, is that of the United States, and of the relationship between China and the United States. The result of the recent trip of President Trump and his two-day state visit to China, is obviously the most consequential. Because if the two largest economies of the world have a good relationship, then prospects for world peace are moving in a very positive direction.

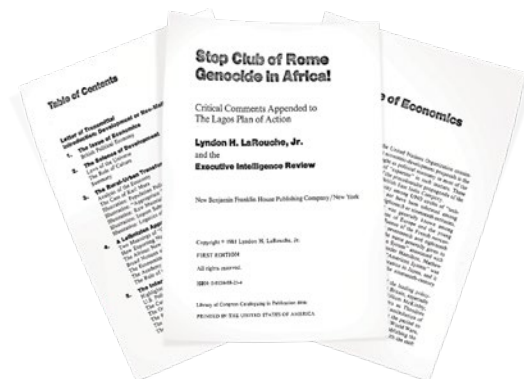
The Chinese Ambassador to Washington, Cui Tiankai, recently made the point that there were sixteen times in world history when a rising country surpassed the country that had been dominant up to that point. In twelve cases it led to a war, while in four cases the rising country took over peacefully. He said that China wants neither of those outcomes; instead, China wants to have a completely different system of a win-win relationship of equality and respect for one another.

Trump came back from this Asia trip with \$253 billion worth of deals with China. I watched the Nov. 13 press conference of the Governor of West Virginia, Jim Justice, who said that now, because of China, there is hope in West Virginia. West Virginia is a totally depressed state; it has high unemployment and a drug epidemic. But he said that now we can have value-added production, and we will have a bright future. So the spirit of the New Silk Road has caught on in West Virginia.

Finally, Real Development for Africa

Besides the change in the relations between the United States and China—and that in Southwest Asia—the biggest change for the better as a result of the New Silk Road, is in Africa. China has invested in Africa:

In railways, it has built a railway from Djibouti to Addis Ababa; it is building other railways from Kenya, and they are supposed to go to Rwanda. They are building hydropower dams and industrial parks. Especially in the last four years, the outlook of most Africans has completely changed, because they see, for the first time, that after suppression by colonialism and the denial of development through the IMF conditionalities, there is a possibility to truly develop the continent.

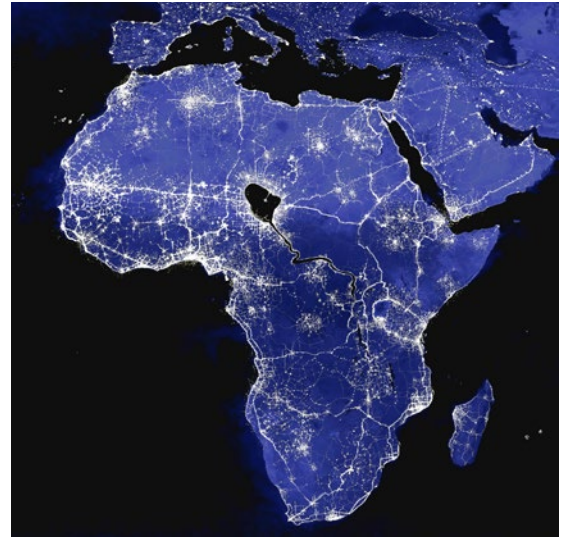
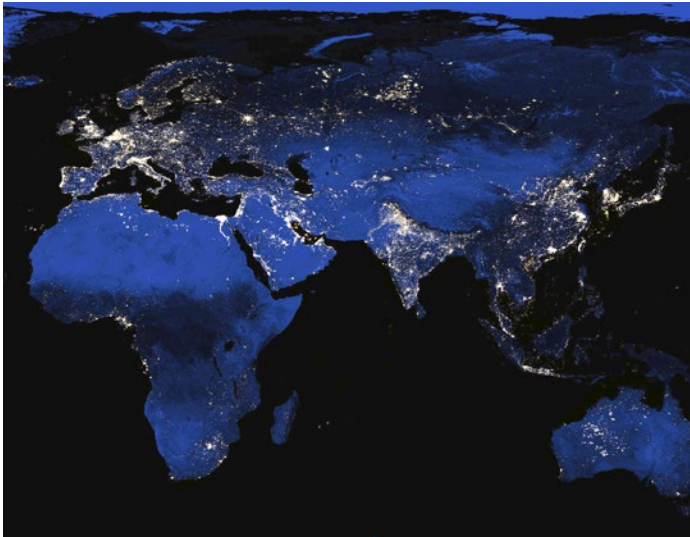


In 1981, Lyndon LaRouche published a 180-page special report on the perspective for the economic development of the nations of Africa.

In 1980, my husband, Lyndon LaRouche, wrote a supplement to the Organization of African Unity's Lagos Plan of Action, a book-length paper with the title "Stop Club of Rome Genocide in Africa! Critical Comments Appended to the Lagos Plan of Action."

He defines economic science as an inseparable facet of science, usefully called "statecraft," which includes the development of law and the cultural advancement of the people—the development of the individual to master the lawful principles of the composition of the universe. He presented a total counterposition to that of the Club of Rome, with its "appropriate technologies" and its "sustainable development"—which is just another word for no development. He proposed to upgrade the labor force continuously to higher modes of production, by changing the proportions of employment from rural to urban productive occupations, using continuously higher energy-flux densities in the mode of production.

He took as a reference point for the development of Africa, the development of the United States, and showed how, for example, in the United States at the end of the 18th Century, 98% of the people worked in agriculture. Today it is less than 4%, obviously producing much more food than at the time. This exemplifies the way for Africa to go, including the development of roads, canals, and railroads; the specialization of farmers; the increase of productivity and income in agriculture and industry; a shift away from labor-intensive to capital-intensive modes of production; and better education—all amounting to the development of the power of the population to produce material alterations of nature with an increasing potential relative population-density and at higher energy-flux densities.



The world at night, as seen from space. Light is an excellent marker for economic development. When seen at night, much of Africa truly is a "dark continent." On the right, the view of Africa in two generations, as development is unleashed!

He said, "The development of Africa must be directed to what nations of Africa are to become by the year 2000 and 2020." This was written in 1980, namely, two generations ago. He said, "The conception needed is one of the development of the productive powers of the entire population, over the development period spanning two generations." Apart from basic infrastructure—meaning a continental system of rail, waterways, and highways—he proposed a string of new cities of 250,000 to a maximum of 2 million inhabitants, where at the core of each new city would be an educational complex of pedagogical museums, libraries, cultural centers, parks, and teaching and research institutions, including medical science and research institutions.

He proposed a connected system of rapid transport for persons and freight, and low-cost transition from one mode of transport to another. He envisioned inner-city distribution of freight from warehouses in the city to stores, with daily deliveries of perishable goods such as foodstuffs. And around the core of the educational complex, then residential, industrial, and commercial areas would be developed.

The cities were not only supposed to be functionally well designed, but beautiful, using the principles of Platonic ratios in architecture. Utilizing, for example, those methods used in Gothic cathedrals, or in the architecture of the Golden Renaissance of Italy. It included the idea of having many trees and flora, so that people would be happy and the climate would be moderated.

He said, "The essential thing which the citizens of such a city must experience over the course of the city's gradual completion, is a sense of ongoing progress of perfection." To aid this process, there should be technology transfer from the developed countries, financed by grants. He made the correct point that technology transfer from Europe and the United States to Africa would stimulate the economy in the exporting nations and increase their tax income, and that the developing countries receiving grants would become the next generation's customers for purchasing on a credit basis. The exporting nations would develop prosperous customers for tomorrow, and have an accelerated turnover of capital stocks, and thus those exporting countries would increase their productivity, and therefore their national and per-capita wealth.

Now, LaRouche, on the other side, said that, "The technology-exporting nations must seek those portions of the labor force in the developing nations, which can be upgraded immediately to productive employment, using the most advanced technologies embodied in the capital stock to be exported from the industrialized nations. That labor force is able to assimilate the advanced technologies, and that must be expanded. It requires methods of promoting the development potentials of the population on a large scale, so the investment in infrastructure and the development of the population has to occur at the same time. Every infant born in any part of the world, has the potential for the development of his or her mental powers to the level sufficient for a direct, competent use of modern

technology. It is that potential development which is the only source of wealth. That development is a credit-worthy asset in the eyes of a truly prudent lender."

Leibniz's Proposals Were Analogous

In the preface of Gottfried Wilhelm Leibniz's book *Novissima Sinica* (1697), he writes: "I consider it a singular plan of the fates that human cultivation and refinement should today be concentrated, as it were, in the two extremes of our continent, in Europe and in China, which adorns the Orient as Europe does the opposite edge of the earth. Perhaps Supreme Providence has ordained such an arrangement, so that as the most cultivated and distant peoples stretch out their arms to each other, those in between may gradually be brought to a better way of life."

For the universal thinker Wilhelm Gottfried Leibniz, whose ideas profoundly influenced the American Revolution, the affinity of Confucius and Christianity, despite all differences in culture, proved that humanity has the universal characteristic of reason.

Once one understands this inner cohesion between Chinese ancient philosophy, especially in the Confucian expression, and the ideas of Leibniz, it is no surprise that he not only recognized the affinity, but concretely thought a reciprocal exchange of the two cultures would merge into a superior, more advanced level of civilization. Among Leibniz's plans for this project were the creation of a world language, for which he thought the Chinese language and script were most appropriate; the creation of a world academy of sciences, where Chinese and Western scientists would work together; and the creation of a world citizenship, which would allow every human being to absorb all cultures of the world.

He envisioned the future role of Russia in mediating between China and the West, and the development of Siberia in relation to the development of Northern Africa. And Peter the Great, with whom he was in contact, in 1712 ordered the expedition of Vitus Jonassen Bering, for whom the Bering Strait has been named. He advocated the development of a method to teach the difference between Western and Chinese culture.

If you look at these plans by Leibniz, it is absolutely amazing how similar they are to what Xi Jinping is doing with the New Silk Road policy today, which has aspects of all of these plans.

We obviously need a completely new set of international relations. We must overcome geopolitics,



The European genius Gottfried Leibniz (left, 1646–1716) saw profound parallels between the teachings of Confucius (right) and the tenets of Christianity, as valued the deep attachment to moral principles in China. This led him to consider China a leader in "moral philosophy" and of "natural religion." He thought Europe and China would both greatly benefit from cultural and scientific exchange.

and we must have a system of relations among us with total respect for sovereignty, non-interference, respect for the different social systems, win-win cooperation in the mutual interest of all of us, and the perspective of one single humanity.

We must develop a new set of international relations in which each nation is allowed to celebrate statecraft, meaning making possible the realization of the creative potential of all of its citizens. This will be an interaction among nations in which each focuses on the best cultural tradition and potential of the other. China is reviving Confucianism and its philosophy of philosophical Classical culture in poetry, music, and painting.

We must do the same. We must revive the ancient Greek Classical period. In Italy, we have the Golden Renaissance; in Spain, the Andalusian renaissance and other great thinkers. In France, you have the traditions of Louis XI, Jeanne d'Arc, and the Ecole Polytechnique. In Germany, we have a tremendous wealth of philosophers, composers, and poets—Schiller and Beethoven. In America, we have the Constitution, the American System of economy. All these treasures are there, and only need to be revived.

So, it is very good to live at this moment in history, and contribute to make the world a better place. And it can be done, because the New Paradigm corresponds to the lawfulness of the physical universe in science, Classical art, and these principles. Neo-liberalism is as outdated as Scholasticism, and will disappear, as did the scholastics debating how many angels can fit on the head of a pin. What will be asserted is the identity of the human species as the creative species in the universe.

(End of presentation by Helga Zepp-LaRouche)

Implement LaRouche's "Four Laws for Economic Recovery"

The present economic disaster of the United States demands a solution that cannot be found within the axioms of economic courses or textbooks. We must turn to Lyndon LaRouche, whose unique economic discoveries set the stage for his remarkably accurate forecasts and the fundamental science of physical economic growth that he has spent his life developing. LaRouche built upon Leibniz's understanding of *technology* and Alexander Hamilton's recognition of the central role of increases in the *productive powers of labor* as sources of economic wealth.

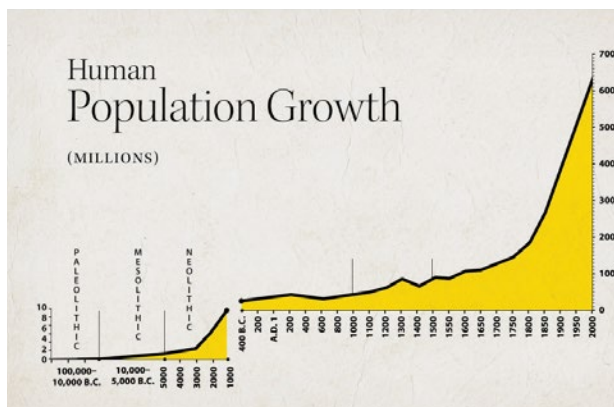
Rather than beginning with financial figures to measure an economy, LaRouche begins with the development of the human species. How many people can be supported upon a given area of land? That is, what is the *potential relative population density* of an economy? And what actions increase this potential (rather than the stock market)?

LaRouche locates the only source of economic wealth — indeed, the very basis for the existence of that uniquely human phenomenon known as “economy” — in the discovery of universal principles of science that change our relationship to nature itself.

In 2014, from his knowledge of the true ABCs of economy (and his absolute rejection of what masquerades as “macroeconomics” in universities), LaRouche distilled the needed U.S. economy policy outlook into what he called his “Four New Laws to Save the U.S.A. Now!”

These “Four Laws” are not like any other political program you have ever read. It's not a four-point platform from which you can select one independent plank to adopt, while ignoring the others.

Rather, these Four Laws are four facets of a single scientific outlook, refined by decades of work. Their joint operation will bring our political-economic system into coherence with the scientific economic laws manifest in all successful economic growth. These laws stem from the difference between human beings and all lower forms of life: the human ability to create and to evolve to a higher mode of existence.



Human population has increased by orders of magnitude over historical time. Has any animal done this? What is the origin of this distinction between humans and animals?

LaRouche writes: “Mankind is enabled to evolve upward, and that, categorically, by those voluntarily noetic powers of the human individual will.... All actually sane cultures have appeared thus far in a certain fact of evolutionary progress from the quality of an inferior, to a superior, species.”

Conversely, when an economy does not develop higher forms of energy sources or reach a required density of new fundamental discoveries, that economy will inevitably fail as it reaches the limits of its own power and resource-base. Animals live in such a fixed relationship to their environment. An animal cannot alter its environment or enhance its mode of existence. In contrast, our existence as a species is based on *changing* our relationship to our surroundings and each other. Rejecting this is rejecting our humanity: “A government of people based on a policy of ‘zero population growth and per capita standard of human life’ is a moral and practical abomination.”

Restoring Glass-Steagall will separate commercial and speculative banking activities, ending Wall Street's cannibalization of economic resources and ensuring that speculation is at the risk of the investor rather than bank depositors or the U.S. taxpayer;

it will clear the way for a bankruptcy-type reorganization of Wall Street's worthless speculative holdings. But, that will not, in itself, result in sufficient funding for major infrastructure. This requires a return to a credit system under Congressional supervision, a system found in the U.S. Constitution and in Alexander Hamilton's revolutionary design of the American system of political economy.

A physical standard, rather than a financial one, must be applied to the credit thus generated. Federal credit must not be invested in speculation (gambling), wars, or other forms of waste. It must be directed to activities that will generate actual economic growth, such as purposefully designed large-scale infrastructure projects, basic science, advanced healthcare platforms and education systems, with the constraint that they must foster individual creativity and rising living standards.

But, even a shift toward massive amounts of new infrastructure building or repair, will not secure the future, if it is limited to our present economic and technological platform.

New forms of technology allow the development of better systems of infrastructure, serving as *platforms* for economic growth.

And we require a power source capable of enabling us to leap in productivity and advance to the next economic platform, based on higher density of energy use. That new source is fusion power—an essentially unlimited resource of great intensity. LaRouche's Fourth Law calls for a crash program to develop this technology.

A New Trajectory

Combined, these "Four Laws" will unlock the social organization needed for the advancements that will shape the next several generations of human life. We must go far beyond merely repairing potholes, upgrading our decrepit water systems, and spreading broadband internet access.

Useful parallels for what we must do today can be found in U.S. history: the canal building of our nation's early days; the Transcontinental Railroad financed by Lincoln's Administration during the Civil War; Franklin Roosevelt's TVA project; the Manhattan Project; John F. Kennedy's space program; and his water management and hydroelectric power projects, such as the great North American Water and Power Alliance (NAWAPA), abandoned after his assassination.

President Kennedy maintained that anything worthwhile must generate benefits two generations hence. This was in strict adherence to the U.S. Constitution's great Preamble, requiring us to promote the *general welfare* for "ourselves and our Posterity."

Henry Ford's High-Wage Heresy

In 1914, Henry Ford announced a pay raise from \$2 a day to \$5 a day. This raise was so shocking, that it became a huge international news item. Ford saw the pay *raise* as a *cost-saving* measure, which in fact it turned out to be—even more successfully than he had imagined.

The key to increasing productivity was not simply paying his workers more, and reducing their hours; rather, the pay raise and reduction of hours was possible *because of their higher productivity*. As Henry Ford's spokesman explained the effect after the fact, increasing the wage of his workers made it possible for them to afford the Model T. As Ford's heretical approach to paying higher wages was replicated in other industries across the nation, the Model T became affordable to many others.

Increasing the number of Model T purchasers by raising wage levels throughout the country, and simultaneously bringing down the cost of his cars, was necessary for one simple reason: The massive capital investments Ford made which had the biggest effect on cost reduction, *required a dramatic growth in the number of cars produced* to justify the investment. That is, to make car ownership possible for the average American, *Henry Ford had to think on the scale of the U.S. economy as a whole, and transform it.*



The Ford River Rouge Complex, the most integrated manufacturing plant in the world in its heyday. The complex included virtually every element needed to produce a car: blast furnaces, an open hearth mill, a steel rolling mill, a glass plant, a huge power plant and, of course, an assembly line. With connections by water, road, and rail, it was critical to the nation's war production, at times employing over 100,000 people.

Case Study: Jing–Jin–Ji (Beijing–Tianjin–Hebei) Regional Integration

Significant infrastructure upgrades — the expansion of the infrastructure qualitatively and quantitatively — are made not due to linear projection of current use and demand, but by intended non-linear changes in the functioning of a region or economy as a whole. They do not merely add more of an already-existing capability (more lanes on a roadway, for example). Instead, they provide a new platform of connectivity and productivity.

As an example, consider China's 22,000 km high-speed rail system (two-thirds of all high-speed rail in the world!) and all built over the past decade. Most of the trips on the busiest lines are *trips that would not have occurred without that network*. People did not simply arrive earlier; they went somewhere they would not have gone.

With the rail network in place, the 40-day Spring Festival now involves a mass migration of roughly 385 million travellers, to vacation or visit family. Roads could not possibly handle hundreds of millions of people driving across the country. The rail network changes the social characteristics of the Chinese population, improving the overall geographic connectivity of the country and its people.

Part of China's current economic vision is the development of city-clusters as integrated economic areas. China's National Development and Reform Commission has designated certain clusters of cities, such as those in the Beijing-Tianjin-Hebei (Jing-Jin-Ji) region, as interregional city clusters. Rather than building more rings of highways to expand individual, fast-growing megacities such as Beijing, the plan is to supersede the concept of single cities as independent entities by developing larger areas connected by fast, modern transportation, so that some-

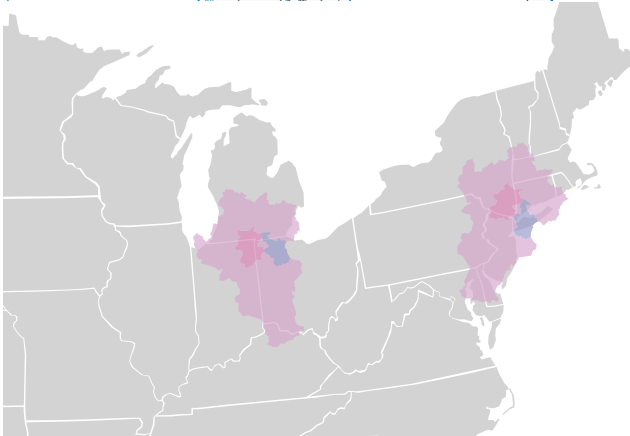
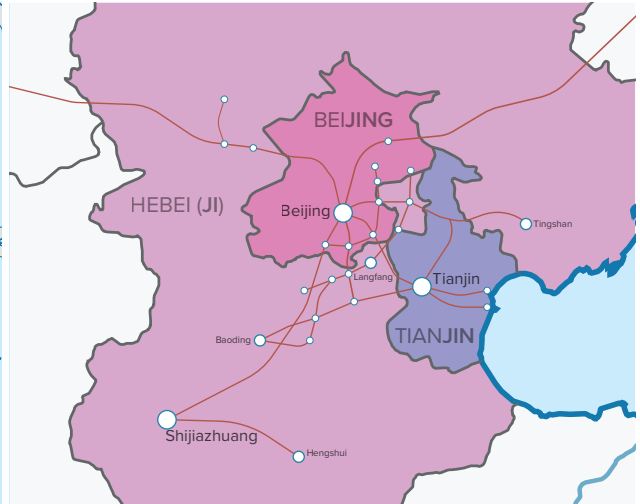


China's 22,000 km high speed rail network, which is constantly being expanded. Over half of the trips are *generated* trips, meaning that they are journeys that would not have been made by other means if the high-speed rail network did not exist.

one living anywhere in that region can commute to work anywhere else in the region within one hour.

We have gone from agricultural villages to commercial / industrial towns, to the modern industrial and commercial cities of today, and the next platform of technology allows us to create a new unit of social connection — the megaregion.

Clusters of large cities can thus function in the way that individual metro areas do now, with the added benefit that the labor market for any individual employer or city center is now larger—as large as 50 million people. One of the advantages is the option to concentrate, within each city of the cluster, a particular specialization, whether it be administration, manufacturing, technological development, or something else. A family does not have to choose between living where one spouse's dream job is, versus another opportunity, but can commute within an hour's time to any of multiple cities. As a result, more people can be employed in such a way as to maximize their productivity, and their happiness.



The Chinese capital city, Beijing, is part of a larger metro area including the cities of Beijing and Tianjin, along with Hebei Province (*top left*).

Home to over 100 million people, this metropolitan region, known by the nickname Jing-Jin-Ji, is constructing a regional rail and transport network (*top right*).

When complete in 2020, it will bring cities along the network within a one-hour train ride. Imagine how many jobs would be within a reasonable commute! Or imagine having 100 million friends that you can go visit within an hour!

When compared with areas of the United States, the huge size of Jing-Jin-Ji becomes apparent. Imagine having such connectivity along the Washington–Philadelphia–New York–Boston route, or in the Midwest, connecting Chicago, Detroit, Indianapolis, Cincinnati, and Columbus!

Pause to think through how such a regional approach to transportation could improve the quality of life and potential economic productivity.



JOIN US!

Help us reach out to our fellow Americans and secure the future.

Below are some ways you can volunteer:

1. **Social media outreach** — Promote this campaign on Facebook, Twitter, etc.
2. **Community outreach** — Circulate campaign material in your community.
3. **Make a donation** — We rely entirely on personal contributions.
4. **Local media outreach** — Write op-eds in local newspapers & call into radio shows.
5. **Platform organizing** — Reach out to mayors, city councils, elected officials, unions, farm organizations, industry leaders, and others for their endorsement.

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The Four New Laws to Save the USA Now! Not an Option: An Immediate Necessity

by Lyndon H. LaRouche, Jr.

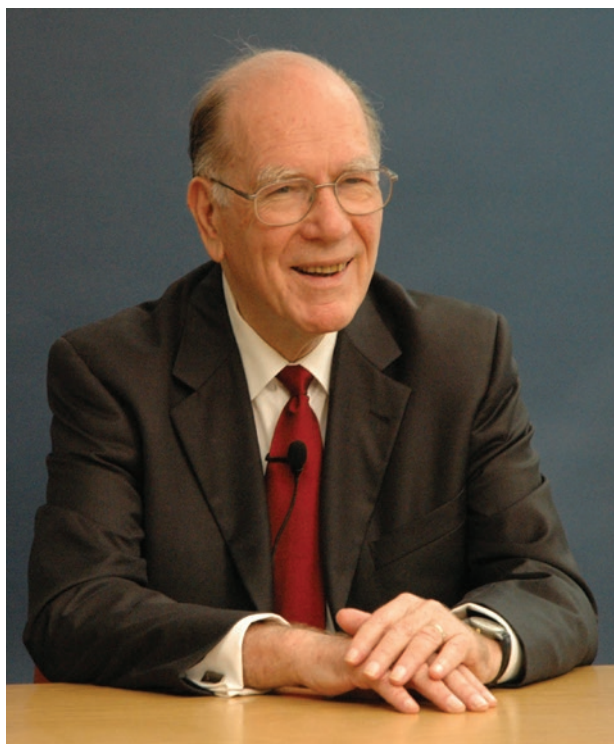
The following policy document was originally authored and published in June 2014. It remains the immediate and indispensable policy necessary to launch an economic recovery of the United States.

The Fact of the Matter

The economy of the United States of America, and also that of the trans-Atlantic political-economic regions of the planet, are now under the immediate, mortal danger of a general, physical-economic, chain-reaction breakdown-crisis of that region of this planet as a whole. The name for that direct breakdown-crisis throughout those indicated regions of the planet, is the presently ongoing introduction of a general “Bail-in” action under the several, or more governments of that region: the effect on those regions, will be comparable to the physical-economic collapse of the post-“World War I” general collapse of the economy of the German Weimar Republic: but, this time, hitting, first, the entirety of the nation-state economies of the trans-Atlantic region, rather than some defeated economies within Europe.

A chain-reaction collapse, to this effect, is already accelerating with an effect on the money-systems of the nations of that region. The present acceleration of a “bail-in” policy throughout the trans-Atlantic region, as underway now, means mass-death suddenly hitting the populations of all nations within that trans-Atlantic region: whether directly, or by “overflow.”

The effects of this already prepared action by the monetarist interests of that so-designated region, unless stopped virtually now, will produce, in effect, an accelerating rate of genocide throughout that indicated portion of the planet immediately, but, also, with catastrophic “side effects” of comparable significance in the Eurasian regions.



Lyndon H. LaRouche, Jr.

The Available Remedies

The only location for the immediately necessary action which could prevent such an immediate genocide throughout the trans-Atlantic sector of the planet, requires the U.S. Government’s now immediate decision *to institute four specific, cardinal measures: measures which must be fully consistent with the specific intent of the original U.S. Federal Constitution, as had been specified by U.S. Treasury Secretary Alexander Hamilton while he remained in office:*

(1) *The immediate re-enactment of the Glass-Steagall law instituted by U.S. President Franklin D. Roosevelt, without modification, as to principle of action.*

(2) *A return to a system of top-down, and thoroughly defined, National Banking.* The actually tested, successful model to be authorized is that which had been instituted, under the direction of the policies of national banking which had been actually, successfully installed under President Abraham Lincoln's superseding authority of a currency created by the Presidency of the United States (e.g. "Greenbacks"), as conducted as *a national banking-and-credit-system placed under the supervision of the Office of the Treasury Secretary of the United States.*

For the present circumstances, all other banking and currency policies, are to be superseded, or, simply, discontinued, as follows. Banks qualifying for operations under this provision, shall be assessed for their proven competence to operate as under the national authority for creating and composing the elements of this essential practice, which had been assigned, as by tradition, to the original office of Secretary of the U.S. Treasury under Alexander Hamilton. This means that the individual states of the United States are under national standards of practice, and, not any among the separate states of our nation.

(3) *The purpose of the use of a Federal Credit-system, is to generate high-productivity trends in improvements of employment, with the accompanying intention, to increase the physical-economic productivity, and the standard of living of the persons and households of the United States.* The creation of credit for the now urgently needed increase of the relative quality and quantity of productive employment, must be assured, this time, once more, as was done successfully under President Franklin D. Roosevelt, or by like standards of Federal practice used to create a general economic recovery of the nation, per capita, and for rate of net effects in productivity, and by reliance on the essential human principle, which distinguishes the human personality from the systemic characteristics of the lower forms of life: the net rate of increase of the energy-flux density of effective practice. This means intrinsically, a thoroughly scientific, rather than a merely mathematical one, and by the related increase of the effective energy-flux density per capita, and for the human population when considered as a whole. The ceaseless increase of the physical-productivity of employment, accompanied by its benefits for the general welfare, are a principle of Federal law which must be a paramount standard of achievement of the nation and the individual.



Prometheus gave the power of fire to mankind, setting him apart from the beasts. As the Greek playwright Aeschylus writes in *Prometheus Bound*: "I am Prometheus, giver of fire to mortals... a measureless resource for man, and mighty teacher of all arts."

(4) *Adopt a Fusion-Driver "Crash Program."* The essential distinction of man from all lower forms of life, hence, in practice, is that it presents the means for the perfection of the specifically affirmative aims and needs of human individual and social life. Therefore: the subject of man in the process of creation, as an affirmative identification of an affirmative statement of an absolute state of nature, is a permitted form of expression. Principles of nature are either only affirmation, or they could not be affirmatively stated among civilized human minds.

Given the circumstances of the United States, in particular, since the assassinations of President John F. Kennedy, and his brother, Robert, the rapid increase required for even any recovery of the U.S. economy, since that time, requires nothing less than measures taken and executed by President Franklin D. Roosevelt during his actual term in office. The victims of the evil brought upon the United States and its population since the strange death of President Harding, under Presidents Calvin Coolidge and Herbert Hoover (like the terrible effects of the

Bering Strait Connection

Plans to build a Bering Strait crossing, to link North America to Eurasia, have been on the books for over a century. Today, China and Russia stand ready to cooperate with the U.S. to build such a connection. This would revolutionize world transportation, opening up entirely new routes of efficient high-speed shipping and travel, making rail the most efficient way to get from China to destinations all across America.



Water Management & Agriculture

Largely on land that was once desert, California produces the majority of U.S. fruit and provides the lion's share of many of its vegetables. By expanding water supply in the arid western part of the United States, agricultural production can skyrocket. This means taking advantage of advanced water management. Desalination can create unlimited pure water from the Pacific Ocean. Weather modification technologies can increase rainfall where desired and decrease it where unnecessary. And the North American Water and Power Alliance — a 1960s proposal or continental water transfer — can be revived to make better use of the continent's water.

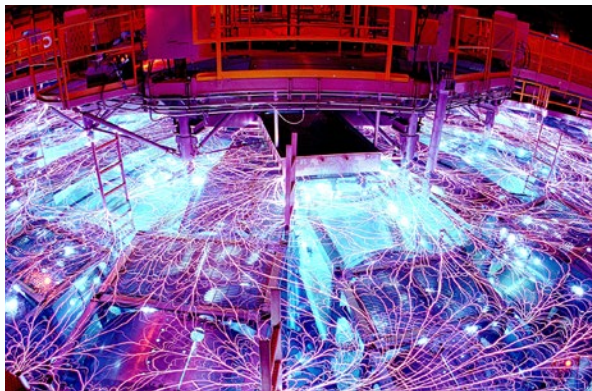


Develop Fusion Power

Use of fire is the first indication of the existence of the human species, totally distinct from the animals. We have developed many new sources of energy, such as coal, petroleum, natural gas, and nuclear fission. These made energy more plentiful and more concentrated.

The next level of power will be nuclear fusion. Further unlocking the power of the atomic nucleus is key to reaching the next level of human society.

With a fusion economy, the power productively applied per person can increase many times over, with no increase in the relative cost.





High Speed Rail & Magnetic Levitation

Tens of thousands of miles of high speed rail are needed to bring the U.S. transportation grid into the 21st Century. Both an upgrading of the existing lines to modern high speed systems (150+ mph), plus the addition of thousands of miles of newly built lines will link up major city centers with agricultural and industrial hubs. Magnetically levitated systems (250+ mph) can be installed along major long-distance trunk lines, making rail once again the fastest and most efficient mode of intercity travel for both passengers and freight. Getting our people and goods off of clogged and dilapidated highways and outdated rail, and onto fast and pleasant trains will increase many-fold the productivity and happiness of the nation.

A New Industrialization

America's industrial and productive capacity will be rebuilt with a new industrial revolution, focusing on the most advanced technologies.

The requirements for large scale implementation of fusion power, successful space colonization, and construction of the most advanced infrastructure systems demand the revival of areas such as the Midwest.

This will create many millions of well-paying, productive, and meaningful careers.



An Ambitious Space Program

Achieving John Kennedy's goals for a manned moon landing brought enormous economic benefits, through the improved technologies and industrial processes required to achieve it. But the ten-to-one return garnered by the Apollo Project cannot be made with our currently underfunded space program.

We must recommitment our nation to exploring space and learning more about the Solar System, galaxy, and universe we inhabit.

Without fundamental scientific advancement, all economies reach an inherent limit. The U.S. must act to expand the frontiers of knowledge.



Bush-Cheney and Barack Obama administrations, presently) require remedies comparable to those of President Franklin Roosevelt while he held office.

This means emergency relief measures, including sensible temporary recovery measures, required to stem the tide of death left by the Coolidge-Hoover regimes: measures required to preserve the dignity of what were otherwise the unemployed, while building up the most powerful economic and warfare capabilities assembled under the President Franklin Roosevelt Presidency for as long as he remained alive in office. This meant the mustering of the power of nuclear power, then, and means thermonuclear fusion now. Without that intent and its accomplishment, the population of the United States in particular, faces, now, immediately, the most monstrous disaster in its history to date. In principle, without a Presidency suited to remove and dump the worst effects felt presently, those created presently by the Bush-Cheney and Obama Presidencies, the United States were soon finished, beginning with the mass-death of the U.S. population under the Obama Administration's recent and now accelerated policies of practice.

There are certain policies which are most notably required, on that account, now, as follows:

Vernadsky on Man & Creation

Vladimir Ivanovich Vernadsky's systemic principle of human nature, is a universal principle, which is uniquely specific to the crucial factor of the existence of the human species. For example: "time" and "space" do not actually exist as a set of metrical principles of the Solar system; their admissible employment for purposes of communication is essentially a nominal presumption. Since competent science for today can be expressed only in terms of the unique characteristic of the human species' role within the known aspects of the universe, the human principle is the only true principle known to us for practice: the notions of space and time are merely useful imageries.

Rather:

The essential characteristic of the human species, is its distinction from all other species of living processes: that, as a matter of principle, which is rooted scientifically, for all competent modern science, on the foundations of the principles set forth by Filippo Brunelleschi (the discoverer of the ontological minimum), Nicholas of Cusa (the discovery of the ontological maximum), and the positive discovery

by mankind, by Johannes Kepler, of a principle coincident with the perfected Classical human singing scale adopted by Kepler, and the elementary measure of the Solar System within the still larger universe of the Galaxy, and higher orders in the universe.

Or, similarly, later, the modern physical-scientific standard implicit in the argument of Bernhard Riemann, the actual minimum (echoing the principle of Brunelleschi), of Max Planck, the actual maximum of the present maximum, that of Albert Einstein; and, the relatively latest, consequent implications of the definition of human life by Vladimir Ivanovich Vernadsky. These values are, each relative absolutes of measurement of man's role within the knowledge of the universe.

This set of facts pertains to the inherent fraud of the merely mathematicians and the modernist "musical performers" since the standard of the relevant paragon for music, Johannes Brahms (prior to the degenerates, such as the merely mathematicians, such as David Hilbert and the true model for every modern Satan, such as Bertrand Russell, or Tony Blair).

The knowable measure, in principle, of the difference between man and all among the lower forms of life, is found in what has been usefully regarded as the naturally upward evolution of the human species, in contrast to all other known categories of living species. The standard of measurement of these compared relationships, is that mankind is enabled to evolve upward, and that categorically, by those voluntarily noëtic powers of the human individual will.

Except when mankind appears in a morally and physically degenerate state of behavior, such as within the cultures of the tyrants Zeus, the Roman Empire, and the British empire, presently: all actually sane cultures of mankind, have appeared, this far, in a certain fact of evolutionary progress from the quality of an inferior, to a superior species. This, when considered in terms of efficient effects, corresponds, within the domain of a living human practice of chemistry, to a form of systemic advances, even now leaps, in the chemical energy-flux density of society's increase of the effective energy-flux-density of scientific and comparable expressions of leaps in progress of the species itself: in short, a universal physical principle of human progress.

The healthy human culture, such as that of Christianity, if they warrant this affirmation of such a devotion, for example, represents a society which

is increasing the powers of its productive abilities for progress, to an ever higher level of per-capita existence. The contrary cases, the so-called “zero-growth” scourges, such as the current British empire are, systemically, a true model consistent with the tyrannies of a Zeus, or, a Roman Empire, or a British (better said) “brutish” empire, such as the types, for us in the United States, of the Bush-Cheney and Obama administrations, whose characteristic has been, concordant with that of such frankly Satanic models as that of Rome and the British empire presently, a shrinking human population of the planet, a population being degraded presently in respect to its intellectual and physical productivity, as under those U.S. Presidencies, most recently.

Chemistry: The Yardstick of History

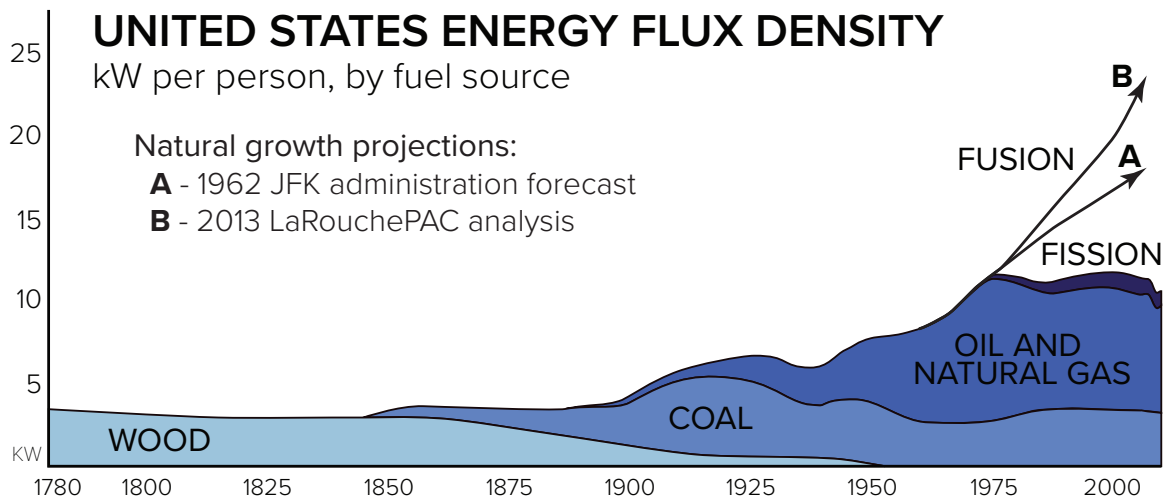
We call it “chemistry.” Mankind’s progress, as measured rather simply as a species, is expressed typically in the rising power of the principle of human life, over the abilities of animal life generally, and relatively absolute superiority over the

powers of non-living processes to achieve within mankind’s willful intervention to that intended effect.

Progress exists so only under a continuing, progressive increase of the productive and related powers of the human species. That progress defines the absolute distinction of the human species from all others presently known to us. A government of people based on a policy of “zero-population growth and per capita standard of human life” is a moral, and practical abomination.

Man is mankind’s only true measure of the history of our Solar system, and what reposes within it. That is the same thing, as the most honored meaning and endless achievement of the human species, now within nearby Solar space, heading upward to mastery over the Sun and its Solar system, the one discovered (uniquely, as a matter of fact), by Johannes Kepler.

A fusion economy, is the presently urgent next step, and standard, for man’s gains of power within the Solar system, and, later, beyond.



Total per capita primary power use in the U.S. from 1780-2010, divided by energy source. Two projections indicate what could and should have occurred under the continuation of a healthy growth process. **Curve A** is a 1962 projection made by the Kennedy administration, which focused on the then-coming role of nuclear fission power. **Curve B** is an estimation of what were possible had the Kennedy vision been pursued, followed by the development of controlled fusion (following the 1970s realization of its feasibility).

Sources: U.S. DOE, EIA, Annual Energy Review 2011; Atomic Energy Commission, Civilian Nuclear Power: A Report to the President, 1962.

1. Restore Glass-Steagall

(1) The immediate re-enactment of the Glass-Steagall law instituted by U.S. President Franklin D. Roosevelt, without modification, as to principle of action.

President Franklin D. Roosevelt's Glass-Steagall Act was in force from 1933 to the mid-1990s, and was repealed in 1999 after being deliberately unenforced by regulators for several years. It must be restored now: as a matter of justice for the terrific damages wreaked on American households and businesses by the 2008 financial crash; in order to prevent another, oncoming banking crash; and in order to restore the U.S. commercial banking system as an engine of bank credit through lending, which will contribute to a national recovery of industry, productivity and productive employment.

The Casino Is Looting the Economy

The American people need a banking system which lends into the economy and participates along with national credit institutions in national rebuilding of infrastructure, industry and science: in Alexander Hamilton's words, "concentrating the savings of the citizens and placing them in the hands of those who can use them most productively." The Glass-Steagall Act protected bank depositors and the government itself from the speculative activities of Wall Street megabanks. Under Glass-Steagall separation of commercial and investment banking, securities firms and investment banks could not take deposits, and commercial Federal Reserve member banks could not:

- deal in non-governmental securities for customers,
- invest in non-investment grade securities for themselves,
- underwrite or distribute non-governmental securities,
- affiliate (or share employees) with companies involved in such activities.

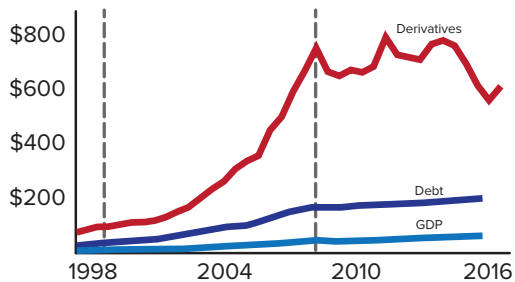
The Roosevelt Administration passed Glass-Steagall in 1933 precisely because the mix of speculative and commercial banking activities resulted in the Great Depression, as failures spread like a contagion through the system. Glass-Steagall stopped this for over 60 years, during which time no major financial failure threatened to bring down other banks, or the whole banking system. Just a decade after Glass-Steagall was done away with in 1999, the collapse of Lehman Brothers in 2008 spread through the whole financial system like a weapon of mass destruction.

Now, 10 years following the bank panic and financial crash of late 2008, and the decimation of the nation's citizens, farms, and factories to bail out the banks, the American banking system has only barely increased its lending to households and businesses. Despite receiving a very large increase in deposits, and having some \$14 trillion in liquidity from taxpayer institutions poured in by bailouts —



A run by depositors on American Union Bank in New York City on April 26, 1932. In the months before Franklin Roosevelt's election, bank panics spread across the country.

Global Derivatives vs Debt & GDP (\$ Trillions)



The explosion of derivatives in the 1990s signaled the beginning of a doomed, self-feeding frenzy based not on investments and growth of the real economy, but purely speculative bets on its "performance." Derivatives are essentially legalized gambling instruments which have hijacked the flow of investments into the real economy for short-term, private profit.

more than \$4 trillion of it permanently — lending to the real economy is minimal. Deposits have risen from \$7.5 trillion in 2008 to \$11 trillion in 2015, while the Federal Reserve put \$4.5 trillion into the biggest banks by buying their securities; but loans and leases from the banks rose only from \$7.3 trillion in 2008 to \$8.3 trillion at the end of 2015, according to Federal Reserve data.

For the "Big 12" megabanks, instead of lending, "trading" has been their watchword for profits, including with the bailout liquidity they received from taxpayers. "Trading" means the stock and bond markets, junk bonds and commodities trading, foreign exchange trading, "securitizing" everything from subprime mortgages to auto loans to home rents, repo markets, and of course creating "financial derivatives" bets on all of it. The Wells Fargo account-fraud scandal showed that right down to the retail level where branch bankers talk to customers, *all* the biggest banks are driving to put customers' deposits directly into "financial products" including derivatives, rather than turning those deposits into loans to the U.S. economy. This speculative activity sucks the life out of the real economy. (See infographic on LaRouche's "Triple Curve.")

Some 28% of all U.S. bank assets reported by the Federal Reserve now are securities. The average for the "Big 12" banks is about 35% securities, and that definitely does not include their financial derivatives "assets." Combine that with the looming crash of the U.S. corporate debt bubble and you have the prescription for a financial inferno.

If Glass-Steagall is not immediately re-enacted, preemptively, now, a crash will happen with even greater devastation of Americans' livelihoods than that of September 2008.

How Dangerous Are the Too-Big-To-Fail Banks?

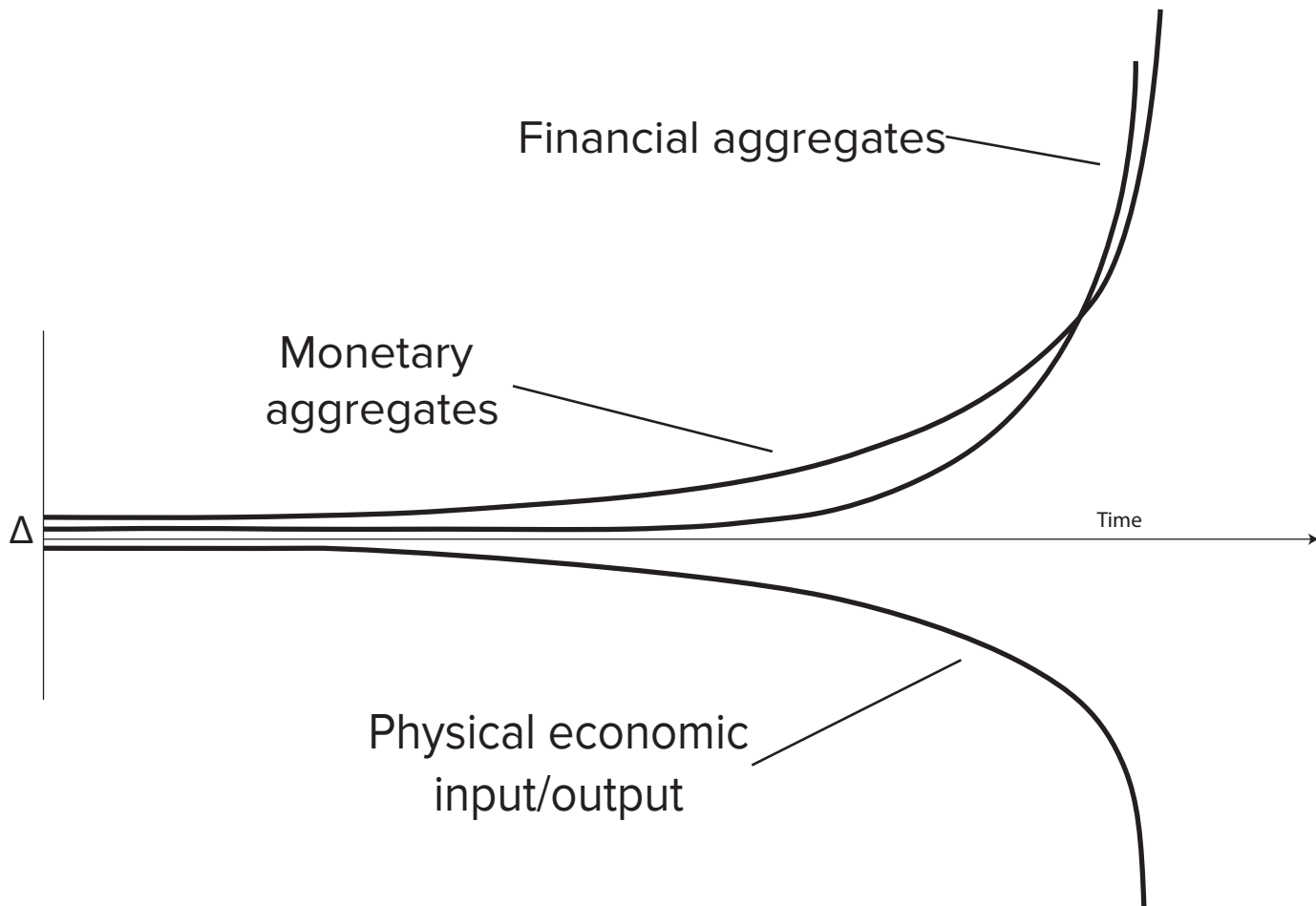
Until Glass-Steagall was abandoned in the mid-1990s, there also were no "megabanks" based in the United States; no bank held more than 6% of total assets in the banking system as a whole. Starting in the late 1990s the largest Wall Street banks exploded in size, and this has continued since the 2008 crash, so that now just six banks hold two-thirds of the deposits and two-thirds of the assets in the entire banking system.

Once Glass-Steagall was repealed, the derivatives markets exploded in size, from nominal values totaling about \$70 trillion in 1998, to more than \$700 trillion a decade later. In 2008, the size of this derivatives market threatened to bring down all of the biggest banks at once, had the government not bailed most of them out. And after the crash, the six biggest Wall Street banks accumulated, on average, 30% more derivatives exposure, according to FDIC vice chairman Thomas Hoenig in 2014. That derivatives exposure was \$232 trillion then; it is \$265 trillion now. This is about 12 times the nominal value of the entire U.S. economy. Even the entire economic output of the U.S. would not be enough to pay up on these bets.

Since 2008, the indebtedness of the systemically important financial institutions has only grown, while the measures taken to address the collapse have made the system even more bankrupt, creating a situation where the rest of the economy collapses at an increasing rate to keep up. The \$14 trillion "eased" into the system to keep the "globally systemic" banks afloat went to purchase toxic assets of the financial institutions and create stock market and other financial bubbles. Much of the money loaned went straight into these bubbles. Much of the \$4.5 trillion created by the Fed to buy banks' securities, was put back into the Federal Reserve by those very banks as interest-earning "excess bank reserves," never entering the real economy.

And now, corporate debt levels, along with derivatives world-wide, edge toward another implosion. The debt of U.S. non-financial corporations has more

LaRouche's 1995 Triple Curve:

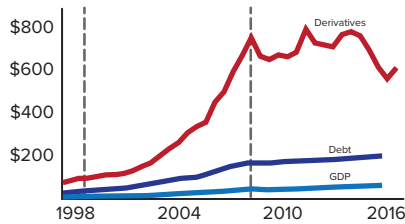


“The **top curve** is a hyperbolic, self-feeding growth of financial aggregates — what might be called ‘shareholder values,’ nominal shareholder values as accountants would account for them, or the equivalent. The **second curve**, which is the monetary expansion, both by Treasuries and Central Banks, which was feeding the money-flow in, to help pump up the growth of this financial bubble. Then the other tendency, the **third curve**, which I dated from 1971, is the accelerating decline in real physical output and consumption, in terms of productive potential per capita and per square kilometer.”

—Lyndon LaRouche, January 2002

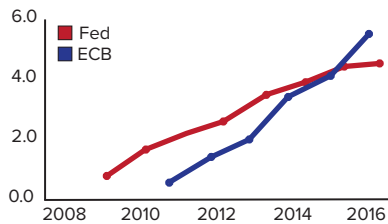
A Forecast of the Trans-Atlantic Collapse

Global Derivatives vs Debt & GDP
(\$ Trillions)



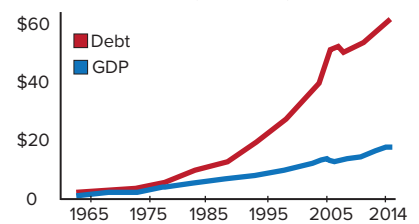
The explosion of derivatives in the 1990s signaled the beginning of a self-doomed feeding frenzy based not on investments and growth of the real economy, but purely speculative bets on its "performance." Derivatives are essentially legalized gambling. They have hijacked the flow of investments away from the real economy, and into short-term profit.

Quantitative Easing: Fed & ECB
(\$ Trillions)



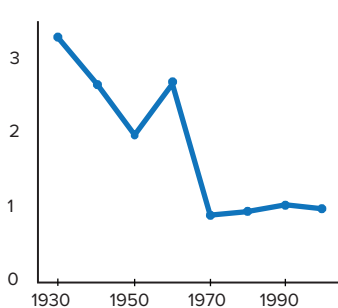
When the derivatives bubble burst in 2007, the Fed and ECB stepped in to bail the speculators out. After seven years of Quantitative Easing (QE), when the Fed could no longer continue its frenetic 2013 pace of \$1 trillion in a single year, the ECB stepped in and has continued to pump trillions of dollars of QE into the bankrupt trans-Atlantic banking system.

Total Debt & Loans vs. U.S. GDP
(\$ Trillions)



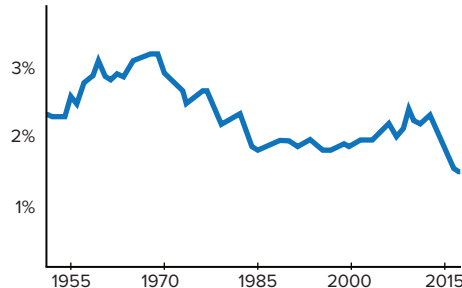
Another indicator of the vulnerability of the U.S. economy is the widening gap between debt & Gross Domestic Product (GDP) growth. For more than forty years, U.S. debt growth followed economic growth. But beginning in the 1990s, the growth of debt began to far outstrip growth in the economy. Today, every \$1 increase in GDP is associated with a \$4 increase in debt.

Total Factor Productivity (TFP)



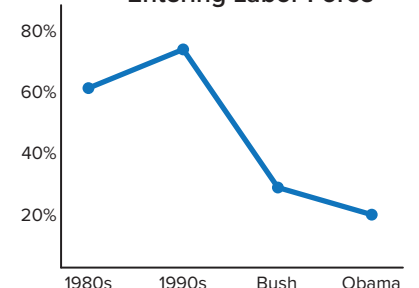
Total Factor Productivity (TFP) measures the rate of growth of an economy due to technological advance, rather than the simple application of more labor and/or capital. The highest rate of growth of TFP in U.S. history, was its 3.3% annual rate of growth in the 1930s, under Franklin Roosevelt's New Deal & Four Corners infrastructure programs.

Annual U.S. Infrastructure Investment as % of GDP



In 1965, as the so-called "golden age of productivity" was nearing an end, U.S. annual investment in infrastructure was above 3% of GDP. By the mid-1980s it had fallen below 2%, and since 2005 has fallen further to 1.4%, an extremely low proportion compared to China's nearly 9% over the past 20 years, and investment rates of 5-6% in other major Asian economies.

Percentage of Eligible Youth Entering Labor Force



In the 1980s-90s, between 60-70% of newly eligible youth were entering the workforce. After sixteen years of Bush and Obama, however, 70-75% of eligible youth are *staying out* of the labor force, a shocking statistic which reflects the plight of the young generation, which is experiencing rising hopelessness and despair.

The Triple Curve depicts a typical collapse function. When monetary and financial policies are systematically decoupled from physical investments, the economy enters a breakdown process, as the physical economy collapses due to lack of investment and due to looting (such as asset-stripping, for example), and the monetary and financial systems become hyper-inflationary (generating increasingly fake assets to support the system). Shadows of this process can be seen in the above economic statistics.

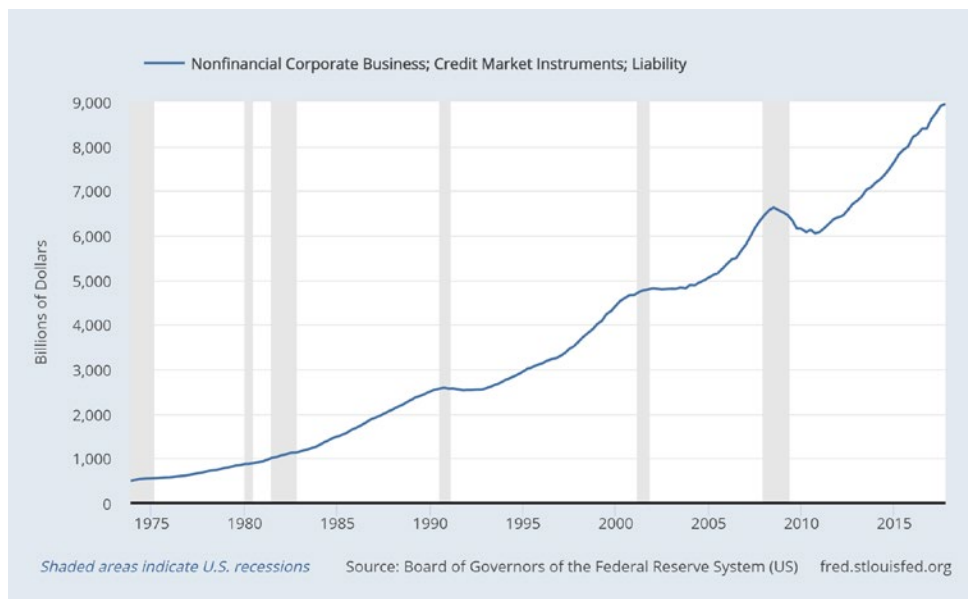


Figure 1: Debt of non-financial corporations

Source: Board of Governors of the Federal Reserve System

even pay interest from earnings—coverage levels like those in the 2001 recession and the 2008 crash (**Figure 2**).

The IMF 2017 *Global Financial Stability Report* found that in the United States, the ratio of debt service to income for non-financial corporations had risen quickly from 37% in 2014, to 41% in 2016.

than doubled, reaching over \$14 trillion: \$11 trillion owed to banks and the rest to “shadow banks” such as money market mutual funds, pension funds, and similar funds. **Figure 1** shows the extraordinary rate at which the banks’ portion of that debt bubble grew, both leading into the 2008 crash and after it, up through mid-2015.

Feeding the explosion of corporate debt has been the vast money-printing of the central banks of the United States, the UK, Japan, and the Eurozone: their \$15 trillion in lending facilities to big banks, with effective zero interest rates, has been combined with roughly \$14 trillion in capital and liquidity infusions by buying bonds from the big private banks.

Since 2013, some 80% or more of this borrowing has been used by larger corporations for “financial engineering”; that is, buying their own stock to drive it up, or buying other companies’ stock in mergers and acquisitions which have the same effect. Some \$4 trillion has gone into driving up stock market indices while betting on them; another \$4 trillion has gone into dividends to stockholders. But total non-financial corporations’ profits have not increased since 2011; and in the three years 2013-5, they fell.

Therefore, debt leverage has jumped up. Morgan Stanley bank itself published a detailed research note on April 20, 2017 which reported that the ratio of non-financial corporate debt to cash-from-operations is at an all-time high of 3.2:1 (2.7:1 is the highest it has ever been before, the bank reported). Companies have low and falling “interest coverage,” or ability to

With debt flying up relative to operating cash, and with profits declining, companies can keep servicing debt only by borrowing more. Those corporations have \$7 trillion more debt than they had at the 2008 crash, but \$3 trillion less equity invested in them.

In that report, the IMF made the startling forecast that any sudden interest rate rise in the United States economy would result in at least 20% of American non-financial corporations being brought to default—a default rate higher than any reached in the mortgage sector prior to the 2008 bank panic.

Handelsblatt on May 8, 2017 and the London *Financial Times* on May 30 published articles by bank researchers noting that a 2008-like debt crash could be near, triggered by an unrepayable U.S. corporate

The debt service burden for the corporate sector as a whole has risen strikingly despite low rates.

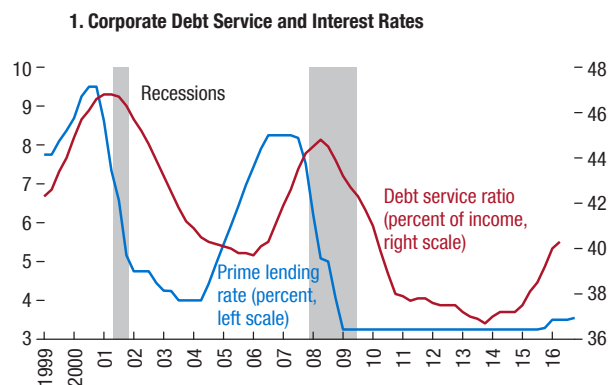


Figure 2: source: IMF *Global Financial Stability Report*, April 2017

bubble. *Handelsblatt* blamed the Federal Reserve's and European Central Bank's zero-interest and qualitative easing for creating this situation, in which "The United States could once again become the trigger and possibly the epicenter of the next crisis."

Total debt securities in the U.S. economy are now at 220% of GDP, whereas in 2007 at the height of the last (mortgage-centered) bubble, they reached 180% of GDP.

As the corporate debt bubble in the United States reached its peak and threatened to begin the collapse, its composition shifted strongly in 2017 toward "junk debt"—that is, junk bonds and leveraged loans, or loans to already over-indebted companies essentially allowing them to pay interest—with this junk or subprime component of corporate debt growing by \$800 billion in 2017 alone. A further shift was away from commercial and industrial lending to real estate debt. At the same time, consumer debt suddenly started growing rapidly after generally shrinking

since the 2008 crash. Subprime auto debt, for example, has higher default rates in 2017 than subprime mortgage debt did in 2007.

But the rates at which these categories of the debt bubble were growing, were not as fast as the rates at which they were being securitized by the major banks, and the new debt securities sold to mutual funds, pension funds, individual investors, and so on. Here too, the biggest banks were trying to get out and dump the debt on other investors. They did the same thing with mortgage securities and derivatives during 2007 and 2008. The return of these practices is a sure sign that the huge debt bubble is nearing a crash.

The only means to stop this world-wide dumping of financial toxic waste — the hallmark of the 2007-08 crash — to create the space for an orderly bankruptcy reorganization of these worthless debts, and to create a lending-oriented commercial banking system, is to re-enact Glass-Steagall now.

"An Act, to provide for the safer and more effective use of the assets of banks, to regulate interbank control, to prevent the undue diversion of funds into speculative operations, and for other purposes."

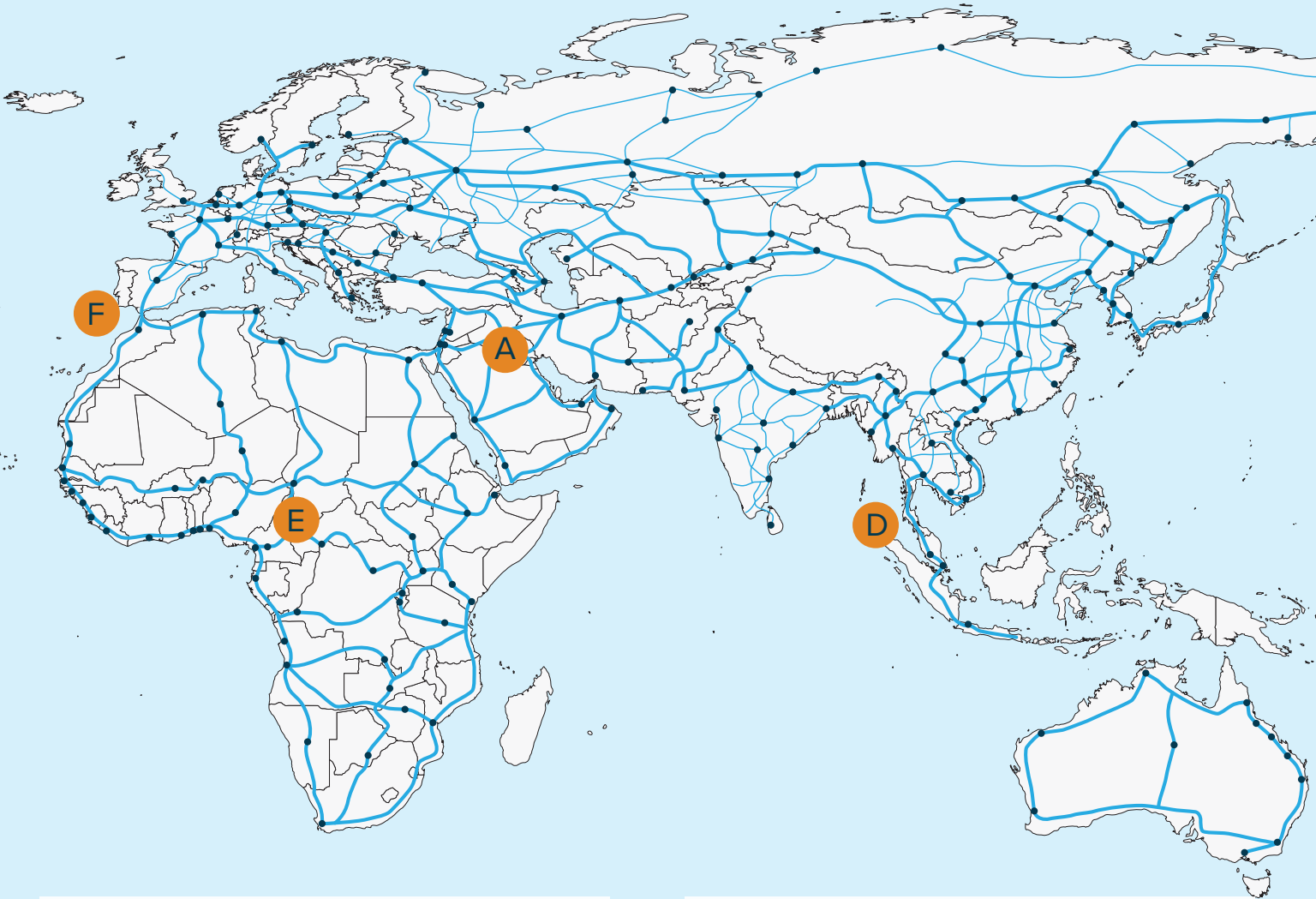
Glass-Steagall Banking Act of 1933

On June 6, 1933, President Franklin Roosevelt signed the Banking Act of 1933 into law, more commonly known as the Glass-Steagall Act, which separated commercial banking from investment banking, and created the Federal Deposit Insurance Corporation (FDIC) which provided protection for commercial banks only. Glass-Steagall was the necessary first step in a series of emergency actions taken by Roosevelt to combat the bank panic which was sweeping across the nation, laying the foundation for his subsequent success in creating a recovery from the Great Depression. The banking separation enshrined in the Glass-Steagall Act remained the law of the land until it was formally repealed in 1999 with the Gramm–Leach–Bliley Act. It is no coincidence that the great crash of 2007–2008 and the current looming financial blowout have occurred after Glass-Steagall was repealed.



The World Land-Bridge

A Global Infrastructure Economic Platform



F) Africa-Europe Strait of Gibraltar Tunnel

The proposed tunnel between Tarifa, Spain and Tangiers, Morocco, would be 25 mi long, with a depth of 1,000 ft below sea level, cutting the travel time between Barcelona and Casablanca to 8 hours, and linking European and African high-speed rail networks. The Spanish and Moroccan governments have completed feasibility studies.



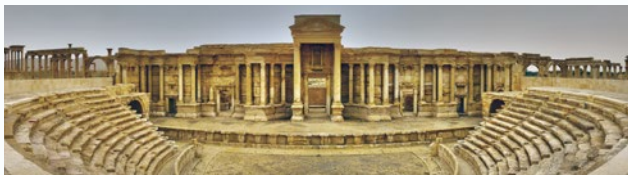
E) Refilling Lake Chad with Transaqua

The Transaqua project would divert water from the headwaters of the Congo river into the shrinking Lake Chad. This would be the largest water transfer project on the planet, saving Lake Chad, controlling flooding in the Congo, generating hydroelectric power, and irrigating an area equal to the size of California's Central Valley.



A) New Marshall Plan for the Middle East

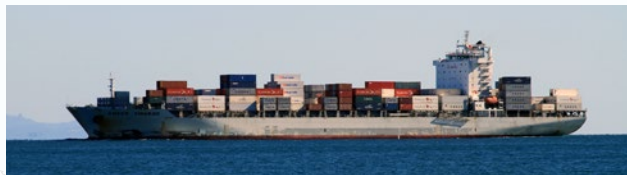
A full-scale, Marshall Plan-type effort is needed to rebuild the Middle East after decades of perpetual warfare and geopolitics have devastated much of the region. Practically all aspects of modern infrastructure are needed, from power, water, and transportation systems, to healthcare, education, and recreation resources.



Guillaume Ploile, CC by 3.0

B) Great Inter-Oceanic Canal, Nicaragua

The Great Inter-Oceanic Canal across Nicaragua will provide a new connection between the Pacific and Atlantic, accommodating more traffic and larger ships. Plans include two ports and an international airport. A commitment was announced July 2014, by President Daniel Ortega and the head of the Chinese HKND firm.



Ronnie Macdonald, CC by 2.0



D) Canal through Isthmus of Kra, Thailand

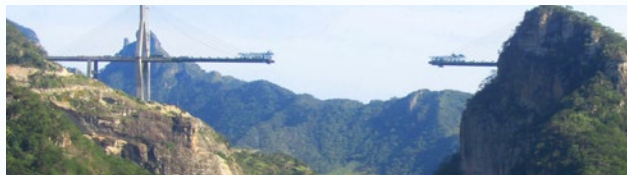
A canal through the Isthmus of Kra (across Thailand) will alleviate the major bottleneck at the Malacca Strait. Now practically the only sea lane between the Pacific and Indian Oceans, the overcrowded Malacca Strait currently handles one-quarter of all the world's trade. China and Japan are interested in the Kra Canal.



Jean-Philippe Boulet, CC by 3.0

C) South American Transcontinental Rail

South America's first transcontinental rail corridor would traverse Brazil, Peru, and possibly Bolivia, with one or two routes. This corridor would bring additional infrastructure and development along the route, and China, Brazil, and Peru are already involved in feasibility studies for a transcontinental rail line.



Grupo Triada / Owner SCT

2. A New Hamiltonian National Bank

(2) Return to a system of top-down, and thoroughly defined, National Banking.

Restoring and enforcing Glass-Steagall banking system regulation empties the Wall Street casino; the President and Congress must then create a large-scale national credit institution to replace speculation with productive employment and productivity.

To not merely “rebuild” America’s obsolete economic infrastructure but to create a new, more productive infrastructure at the frontiers of technology, will require \$5 trillion or more in national investments; Ding Xuedong, the head of China’s sovereign wealth fund China Investment Corporation (CIC) recently estimated \$8 trillion was required, and offered to invest CIC’s U.S. Treasury holdings in it.

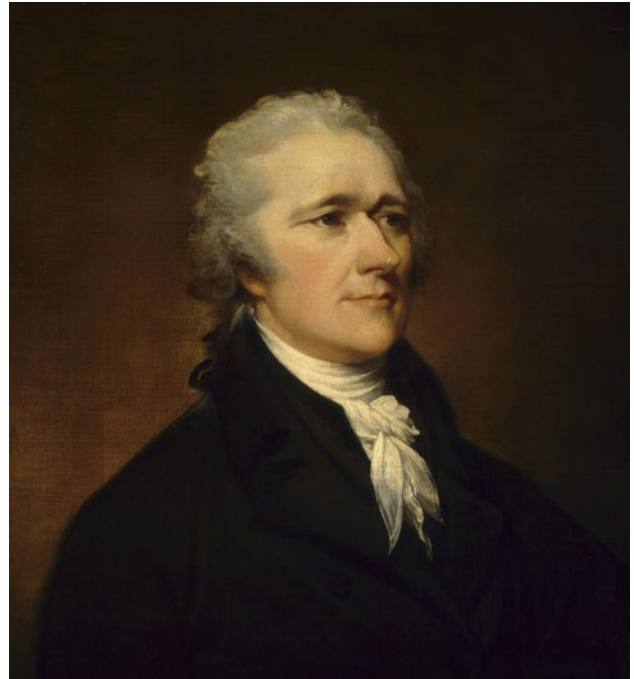
The need for the U.S. to be able to create a large amount of national economic credit, rapidly, to mobilize the American economy and raise its productivity, is not simply a matter of “renewing the nation’s infrastructure,” but also one of maintaining credit for innovative manufacturing—including by small and medium-sized companies—through a large national system of commercial banks.

For 150 years, when such mobilization of national credit was done successfully—from the time of Washington to that of FDR—the method of doing it was Treasury Secretary Alexander Hamilton’s.

Hamilton’s Method

Alexander Hamilton, U.S. Treasury Secretary during George Washington’s Presidency, created a system that closely coordinated the relationship of public credit with the intention of national government to follow through on the actions for which the credit is emitted. The more the nation’s government is committed to see through the creation of credit, and has the necessary powers of finance, trade regulation, and taxation, the better certainty there is on that credit, and the more is credit between parties able to serve as a currency and means of payment.

The task is to create and circulate new currency which is sound in the immediate term, and to invest



Alexander Hamilton (1757-1804), first Treasury Secretary of the United States. Portrait by John Trumbull.

it in the broad national purposes of developing the productivity of the American economy and labor force, so that it will be much more than repaid in the medium and long term. Any and all national currency, is national debt.

During the period of rapid U.S. economic and population growth stimulated by Hamilton’s First Bank of the United States and the Monroe-Quincy Adams Second Bank of the United States, the Hamiltonian representatives of the “American System” held that the Treasury should create, issue and regulate circulation of new currency exclusively through a National Bank. The National Bank, as a commercial bank and issuer of the currency, would make sure the new currency issued was immediately sound and based on funded debt of the Federal government. And if the Bank were led on Hamiltonian

principles, it would also make sure that the use of that new currency fostered the future greatness of the United States, and multiplied itself in value in the process.

The First and Second Banks of the United States were extraordinarily successful in directing new credit to waves of new infrastructure—roads and ports, then long-range canals, then railroads, iron and coal works and steam projects, etc.—and also to the rapid growth of innovative manufacturing in America.

Lincoln's Method

When, under Abraham Lincoln, the U.S. Treasury for the first time, itself created a new paper currency—the Greenbacks—its issuance was still based, not this time on a Third Bank of the United States, but on a new national banking *system*, of newly Federally chartered commercial banks. These Treasury-chartered banks bought new Treasury bonds being issued by the government, and received Greenbacks in equivalent amounts to circulate. The new Treasury debt was of 20 years maturity; the interest had to be made sound by new taxes, and was. The nationally chartered commercial banks, holding Federal debt as their reserves at the Treasury, were the points from which the new Greenback currency was issued, was circulated, and to which it came back to pay taxes. Considered collectively in cooperation with the Treasury, those newly chartered commercial banks functioned, effectively, as a Third Bank of the United States.

This Greenback credit issuance funded not only the huge military and industrial effort of the Union in the Civil War, but the development of trans-Continental railroads, steel and iron industries, state colleges and agricultural extension services, and propelled the United States to the world's leading industrial power by the early 20th Century. And the Greenbacks remained throughout a sound currency, fully backed by interest-bearing Federal debt backed in turn by taxes. So sound—made so by growing

productivity and real wealth—that when the 20-year Greenback bonds became mature for redemption, in gold and silver no less, nearly all holders of Greenbacks elected to keep the paper currency and pass up the precious metal specie.

Roosevelt's Approach

Franklin D. Roosevelt, basing himself on certain actions of Congress in 1933, attempted in 1934 to create a “national industrial bank” with 12 branches, within the Federal Reserve System. In FDR's March 1934 proposed legislation, this national industrial bank within the Fed would absorb a total of \$6 billion in Treasury securities, and then be able to issue an equivalent amount in Treasury Notes (Greenbacks) directly as loans to industrial companies struggling to revive production. Franklin Roosevelt's ancestor Isaac Roosevelt, still famous in the family in FDR's time, had been Alexander Hamilton's partner in the Bank of New York; and FDR himself had written a thesis on Hamilton's economics while at Harvard.

Congress did not adopt this “national industrial bank” legislation of FDR's, leaving him to rely on Hamiltonian approximations in the Reconstruction Finance Corporation (RFC), Tennessee Valley Authority (TVA), and Works Progress Administration (WPA). This was, again, successful in reviving economic growth, productive employment and productivity, and defeating fascism.



Franklin Roosevelt placed his identity within the legacy of Alexander Hamilton, with whom his ancestor Isaac Roosevelt collaborated in New York to create the first National Bank. FDR used the Hamiltonian principle of national credit in his use of the Reconstruction Finance Corporation (RFC).

What About The Fed?

Still today, the structural arrangement of the Federal Reserve Bank is that chartered commercial banks are required to buy Treasury securities and place them on reserve at the Federal Reserve, which issues U.S. paper currency on that basis. But the Federal Reserve's policy is not to issue currency for purposes of production, employment, and productivity. Rather it issues currency only to maintain the reserves of the large U.S.- and Europe-based banks, and to make liquidity loans to those banks when they fall into crisis. The deeper the banking crisis, the higher the Federal Reserve builds up the

excess reserves of those large banks by printing currency, some \$4 trillion-plus in the past eight years.

The Federal Reserve has been directly challenged in Congressional hearings on its failure even to buy infrastructure bonds issued by cities and states since the 2008 bank panic. Yet despite leveraging its own Treasury-bond capital¹ nearly 100-to-1 in creating vast waves of new U.S. currency since 2009 (by buying Treasury and mortgage securities from the megabanks), it has persisted in issuing that currency only to build huge excess reserves in large banks, by loans and by outright purchase of their assets. There has been *no net issuance from all that new currency into the productive economy*. In fact, for much of the past eight years the net issuance into the real economy has been negative. The biggest U.S.- and Europe-based banks are, effectively, the Federal Reserve's only customers. It does not perform any of the functions of commercial banking, as did the First and Second Banks of the United States and Lincoln's "Third" National Bank System of the United States.

What Is Needed Today

Today and over the past two decades, advocates of major national investments of credit into our economic infrastructure and manufacturing often propose printing "Greenbacks" for that purpose. But this requires that the Treasury issue new, interest-bearing debt to back up the new currency issuance. If we are talking, realistically, about trillions of dollars in such new Treasury borrowing, interest rates will rise very rapidly. And the new interest costs of Treasury debt as a whole will not be supported—really advanced investments like a national grid of high-speed rail, or a new Apollo Project, do not pay short-term direct returns to the Treasury, no immediate "user fees."

Ideally much of this large volume of new Treasury debt would be absorbed by commercial banks, which would also be circulating the new "Greenbacks" to contractors, universities and engineering companies and many others. But the commercial banks already have very substantial Treasury holdings. Large foreign government holdings of U.S. Treasuries have been being reduced in recent years. Minimally, interest rates on Treasury debt would rise very fast indeed.

1. The Federal Reserve's capital, from the Treasury and nationally chartered banks, is about \$55 billion, while its asset book is about \$4.5 trillion.

A Third National Bank of the United States

Congress can instead take the action a Treasury Secretary Hamilton would have proposed to them now. It can create a Bank of the United States for Infrastructure and Manufacturing, structured so that holders of existing, longer-term Treasury debt will transfer their holdings into this Bank in exchange for its preferred stock for 20-25 years, to earn a dividend significantly higher than Treasury long-term rates and guaranteed by the Treasury. A tax such as, for example, an adjusted Federal gasoline tax (Trust Fund) can be assigned to the payment of the Bank's dividend; the Bank's purposes would then include those transportation requirements to which the Federal gasoline tax is now dedicated. There are several other user taxes legislated for infrastructure (i.e., ports), proceeds of which are instead used as general revenue by Congress. They can also be dedicated to the Bank.

The Bank's initial aim should be to achieve a capitalization in the range of \$1 trillion.

The largest holders of long-term U.S. Treasury debt, such as the government institutions of China and Japan, have every interest in investing some of that debt into a Bank of the United States for Infrastructure and Manufacturing, as well as American commercial banks, funds, and citizens.

By the Bank thus absorbing, as its capital, even a minor but significant portion of outstanding U.S. Treasury debt, it will then be in a position to be the point of issuance for new currency, an equivalent amount of Treasury Notes—"Greenbacks." These Greenbacks can be issued by the Treasury to the Bank for circulation, up to the amount of the Bank's capital.

More important than this structure are the national purposes of economic, technological and scientific progress to which this national credit institution is put. This will also determine the long-term "pay-back" of such a Bank's investments by the accelerating growth of productivity of the economy and the American labor force.

These purposes bring us to the standards of productivity by which the physical returns on investments can be assessed.

Background: Draft Legislation for a Bank of the U.S. for Infrastructure and Manufacturing
lpac.co/national-bank

A THIRD NATIONAL BANK

How to turn U.S. Debt into Credit for the Real Economy

Revenue



U.S. Federal Government revenue deposits including the Nat'l Transportation Trust Fund's Gasoline Tax, and other revenues the Treasury Secretary sees fit.

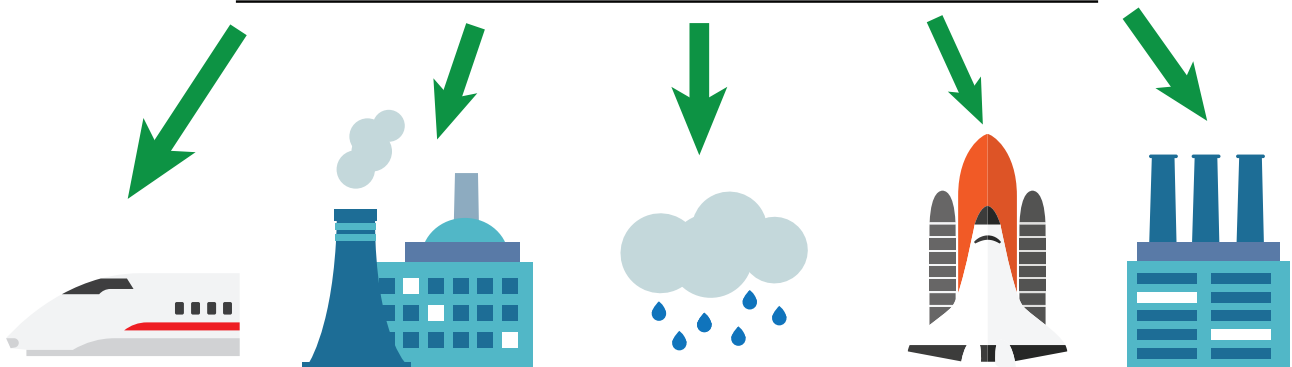
Capital



\$1+ trillion in long-term Treasury Bonds owned by China, Japan, commercial banks, individuals, state and municipal bonds.



Twenty-five directors appointed annually by the President, the majority of whom shall be actively engaged in some industrial pursuit or shall have at least twenty years experience in industry, infrastructure or space.



Trillions in existing low-yield Treasury bonds can be invested in the bank as its new capitalization and exchanged for stock in the bank, dividends upon which would be guaranteed by the Treasury and funded by the bank's loans and dedicated tax revenue system. The bank can now put the otherwise idle money to work as credit to fund big infrastructure investments in the U.S. and joint projects of development abroad, including working with the Asian Infrastructure Investment Bank (AIIB) and new BRICS bank.

3. Credit for Increased Productivity

(3) The purpose of the use of a Federal Credit-system, is to generate high-productivity trends in improvements of employment, with the accompanying intention, to increase the physical-economic productivity and the standard of living of the persons and households of the United States.

How are productivity and value defined in a science of physical economy, and what role does basic economic infrastructure play?

Only the human species can act on its own to expand its “carrying capacity,” the maximum number of individuals that can live in a given area, by overcoming momentary ecological boundaries and limitations through scientific discoveries and their applications in the form of technologies. Lyndon LaRouche’s early-1950s fundamental discoveries in economics led him to use the concept of “potential relative population density” as a metric for this uniquely human form of progress. Scientifically accurate notions of economic value and productivity can only be defined with respect to increasing the potential relative population density of a society.

A New Concept of Infrastructure

The standard conception of “infrastructure” among economists and policy makers is severely limited. In 2010, Lyndon LaRouche redefined the true meaning of economic infrastructure from the standpoint of his science of physical economy—upgrading the standard outlook which pervades the “roads and bridges” conception of infrastructure, to that of a notion of the economic *platform*, of the creation of an *environment* in which a society’s economic activity occurs. He wrote:

We should then recognize that the development of basic economic infrastructure had always been a needed creation of what is required as a “habitable” development of a “synthetic,” rather than a presumably “natural” environment for the enhancement, or even the possibility of human life

and practice at some time in the existence of our human species... Man as a creator in the likeness of the great Creator, is expressed by humanity’s creation of the “artificial environments” we sometimes call “infrastructure,” on which both the progress, and even the merely continued existence of civilized society depends.¹

Several months later, he added:

Ordinarily, the idea of “productive” is associated with the output of labor by production. That is an honest mistake in judgment. The fact of the matter is, that the precondition for the rise of cultures to revolutionary changes to higher qualities of regions of sustainable, potential relative population-density, depends on virtual leaps in potential relative, human population-density which, in turn, require a higher quality of physical-cultural “platform” within which to operate...

In other words, the level of achievable productivity depends upon raising the “platform,” through revolutions in infrastructure, on which successful general advances in potential relative population-densities depend. Without those advances in basic economic infrastructure, merely particular technological progress locally applied will fail in attempted performance of the truly vital mission of physical-economic program, failing for lack of the progress in advancement of the quality of the infrastructural platform on which the success of the society as a whole depends.²

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1. “What Your Accountant Never Understood: The Secret Economy” Lyndon LaRouche, April 17, 2010
 2. “Money or Credit?” Lyndon LaRouche, September 2010

Infrastructure is not simply a faster or cheaper way of getting from here to there, or of providing electricity at a lower cost. Only when considered as a totality, as a platform for development, as an environment in which economic activity occurs, can its true meaning be understood. Rebuilding crumbling infrastructure, while needed in many cases, is not the basis of a recovery, or of a new platform of productivity.

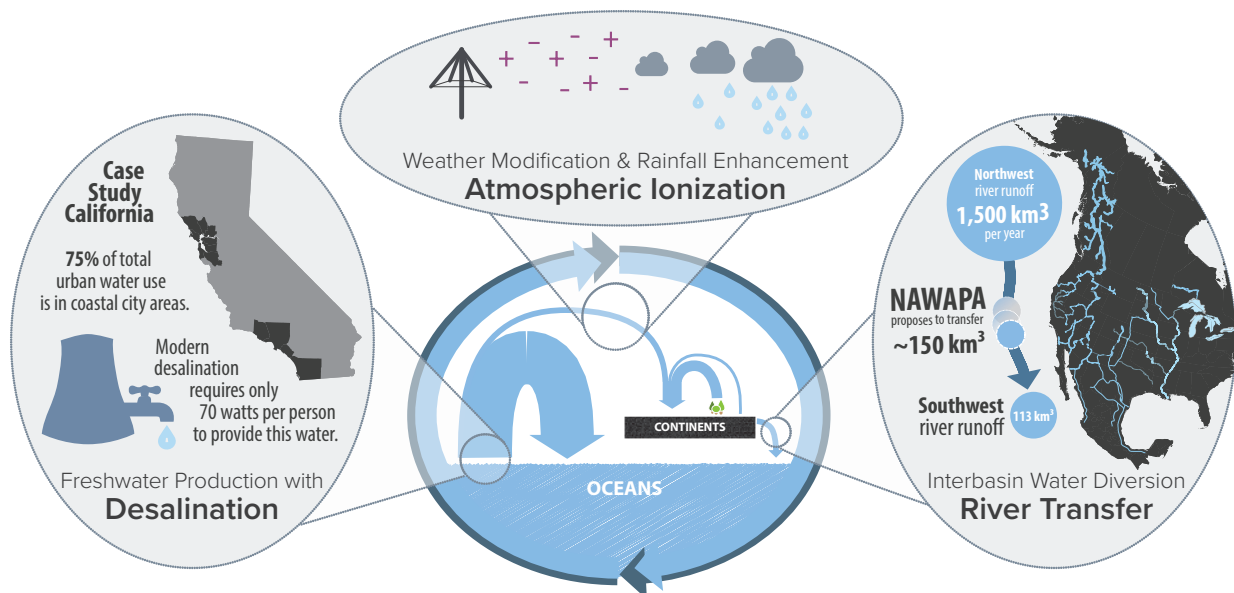
Rather, the launching of a more advanced infrastructure *system*, intended as a basis for a higher level of overall functioning, would focus on the highest technologies: high-speed and magnetic levitation rail systems, nuclear power and the development of commercial nuclear fusion, and the top-down management of the continental water cycle as a whole. New technologies, mediated via a national system of public works, allow a new level of economy overall, which in turn provides the platform for further technological development. Thus, the continuous upgrading of the technologies available to the nation generally, allows for the progressively higher qualitative platforms of economic activity of society as a whole.

Around the world, a new paradigm of great projects and economic development is now emerging. The New Silk Road being built by China and other nations across the globe, is rapidly pulling nations previously plagued by extreme poverty up to modern levels of technology and standards of living. Were the United States to join this new paradigm of development by joining hands with these nations in great project development, the New Silk Road would truly become the World Land-Bridge—a globally integrated economic platform. Given the collapse of skilled labor and manufacturing capacity in the United States, partnering with key nations will be critical to a rapid and successful recovery program.

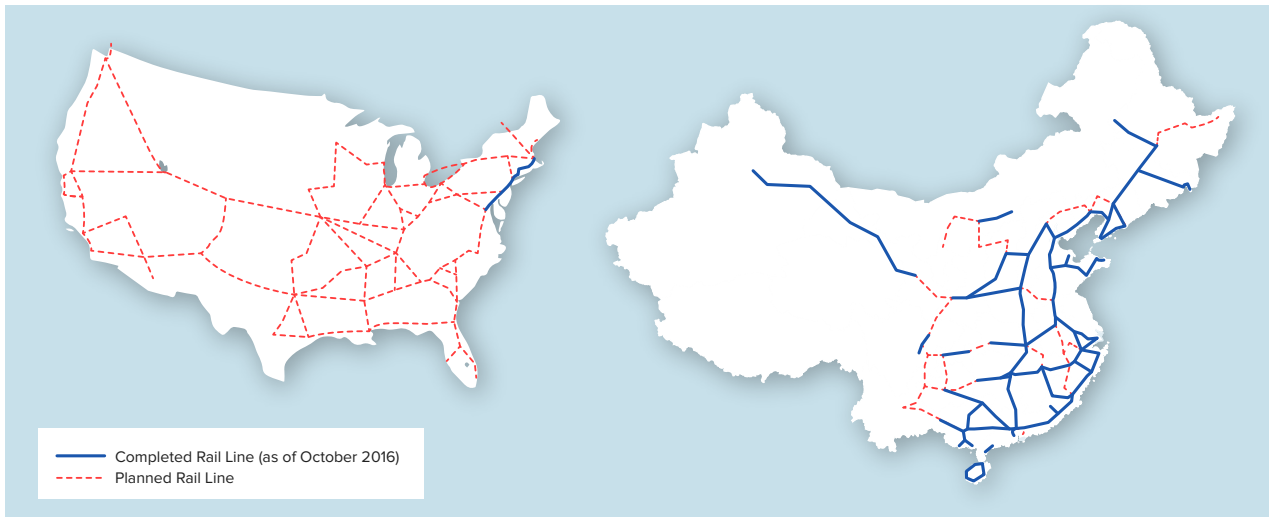
Pillars of a New Platform

Let us consider the technologies needed today to construct a new economic platform for a revitalized, re-industrialized United States, integrated into the great New Silk Road. Revolutionary new technologies in power generation, water management, transportation, and agriculture, will create the new economic platform necessary for moving our nation and mankind into the future of becoming a space-faring species.

Dimensions of the Water Cycle



The Earth's water is not a finite resource: it is part of a cyclical system. Mankind never has, and never will, simply use up water supplies—the challenge is to manage the water cycle in ever-improving ways. The cycle is fueled by the immense amounts of solar energy going into the evaporation of ocean water. Only a small fraction of this evaporated water precipitates over land, creating all the groundwater, rivers, and lakes mankind has depended upon for millennia. The necessary future of mankind's management of the water cycle depends not only upon massive water transfer projects on a continental scale, but also creating new sources of freshwater through desalination, and managing the precipitation of water in the atmosphere through ionization technologies.



The U.S. and China have similar land areas, yet China has over twenty times as much high-speed rail (11,000 miles), with a network of 30,000 miles planned by 2020. In the graphic, blue lines depict currently existing high-speed rail, and red lines depict potential future routes. While in China these future routes are already on the books and slated to be built, in the U.S. they remain only proposals. Credit: FreeVectorMaps.com

Energy Flux-Density & Power: When higher levels of power per capita and per square kilometer can be created at the same relative physical cost to society, the cost for existing applications is lowered, new processes with higher total power requirements become economical, and new physical reactions, associated with new domains of physical chemistry, become possible. This was seen in the electrochemical revolution, whereby previously inaccessible or enormously expensive materials (such as aluminum) were made a common part of production, and where the new principles of electromagnetism themselves replaced the simple motion of the steam engines they supplanted, as in today's computer-controlled machining, electron-beam welding, and electric discharge machining.

This next level requires a crash effort for the full realization of the long-delayed nuclear economy, starting with mass production of cheaper and safer fourth-generation nuclear fission reactors (including the medium-term development of the thorium fuel cycle), and moving rapidly to the development of nuclear fusion. While stagnant use of existing resources

depletes them, the development of higher levels of energy allows the creation of new resources.

Water: Water is the most ancient among the resources created by human beings, through the irrigation and dams of the ancient past, and through the future potential of large-scale water transfer, desalination, and weather modification projects. By adopting a continental-scale approach, with new technologies and scientific principles at our disposal, we can ensure the North American water cycle provides ample water for growing economic and biospheric needs.

Instead of hoping that rain will fall, we can mimic the cosmic-ray influences on cloud nucleation and improve the weather. Rather than looking forlornly at the ocean while lacking fresh water for human use, we can desalinate. We need not look with powerless dismay at the imbalance of over-abundant water in the Northwest and droughts in the southwestern regions. The grand design of the North American Water and Power Alliance (NAWAPA) would divert 5% to 10% of the abundant freshwater runoff where it is in excess, and transfer it to drier climes.

REQUIREMENTS FOR 42,000 MILES OF ELECTRIFIED RAIL



10,000
locomotives



1,000
power substations



15.5 million tons
high-tensile steel



22 million tons
cement



50 gigawatts
power production

Existing water shortages and mounting water crises, typified by the conditions of California and the High Plains Ogallala Aquifer, will be overcome, and new territories will be opened for development.

Transportation: A modern high-speed and magnetic levitation rail system does more than increase speed and convenience of transportation: It changes the entire physical-economic space-time characteristics of the economic system. More extensive areas become accessible in less time, ensuring more diverse population centers, manufacturing capabilities, and agricultural regions can be economically accessible to the individual or productive process. The nineteenth-century construction of the railroads did much more than make shipping faster and cheaper: they allowed new types of production to occur, made otherwise useless resources viable, and sped the social interchange of ideas and people in the nation. Looking to the future, advanced systems of vacuum tube transport could provide supersonic access between select regions.

In order to integrate the North American continent into the modern rail systems now being built across Eurasia, a transport connection across the Bering Strait must be constructed. This approximately 55-mile gap between Alaska and Siberia can be bridged by means of tunnels, joining the two great continental landmasses of the planet into a single, intercontinental transport rail system.

The Development of the Population

A unified integration of these leaps in power, water, and transportation systems defines a new economic platform for higher levels of physical productivity across the entire territory. The entirety of the able-bodied population must be engaged in this program (whether directly or indirectly). Those with existing skills will be provided opportunities to apply their capabilities; those with the capability to learn and develop the needed skills will be provided with training and apprenticeship programs; and those in the most need will be provided with rehabilitation programs shaped to break cycles of drug use, criminal activity, and incarceration, and vector these sections of the population back towards productive work.

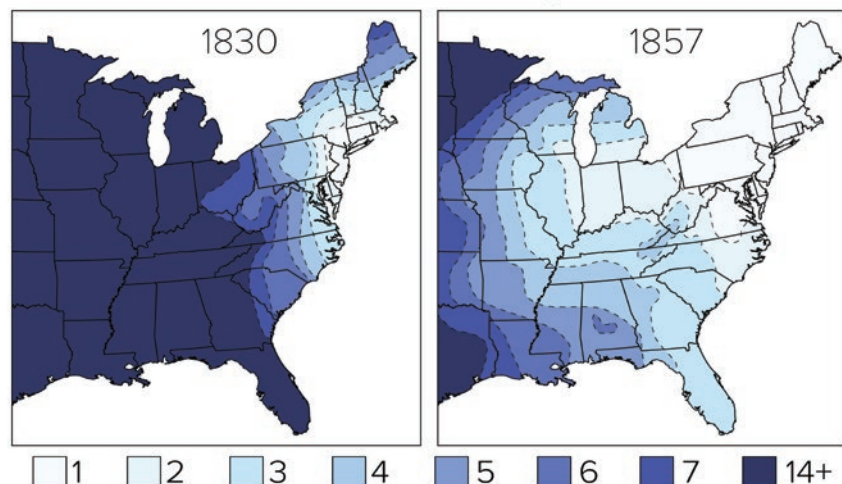
Franklin Roosevelt's Civilian Conservation Corps (CCC) serves as a critical model for the type of effort and programs required. As LaRouche concluded his description of his third economic law:

The ceaseless increase of the physical-productivity of employment, accompanied by its benefits for the general welfare, are a principle of Federal law which must be a paramount standard of achievement of the nation and the individual. Every individual in society has the right, derived from natural law, to pursue happiness, to participate in the uniquely human process of upward, anti-entropic growth, the creation of a higher platform of society to bequeath to the next generation.

Days of Travel from New York City: 1830 vs 1857

How rail transformed America's space-time relations

Adapted from "Time-Space Compression: Historical Geographies," Barney Warf, 2008.



4. A Crash Program for Fusion & Space

(4) Progress exists so only under a continuing, progressive increase of the productive and related powers of the human species... A fusion economy is the presently urgent next step, and standard, for man's gains of power within the Solar system, and beyond.

Mankind, unlike all animal species, is capable of perpetual growth and progress. Realizing this potential, however, requires that we increase our power in and over nature, over time. Such increase does not happen at a steady pace and by continuation of one level of technologies and practices, but by revolutions—leaps upward—in the productive powers of each individual, revolutions which result from the introduction of new creative discoveries into mankind's applied practice. In this way, man creates his own future and evolves upward through discoveries of higher and more powerful principles. Compared to mankind of the Middle Ages, or of the 18th century, we as a species are a mighty geological force, with powers to change nature, and to sustain human life in greater numbers and to broader geographical extent, than ever existed before. It is thus the role of economic policy to encourage and enable such crucial discoveries, and their application to our work and life.

The vital and unique role of the creative human mind just referenced is the principle underlying La-Rouche's call for a "Fusion-Driver Crash Program" as the fourth of his Four Economic Laws. We must craft our economic program to effect the necessary next steps to be taken by mankind, in conjunction with a program for the colonization of nearby space. With such a commitment for the next several decades, we will re-assert our self-advancement towards a more powerful state of humanity.

Fusion: Mastery of the Cosmos

Throughout human history, our discoveries have put ever-higher forms of "fire" into our hands—from wood fire, charcoal, coal, and coke; to petrochemicals and natural gas; to the fire of the atomic nucleus. We use this "fire" to transform nature around us and to expand our reach both on and off the Earth. This succession of categories of fire has given us the means to cook food, melt and transform metals, invent new chemicals, travel faster than sound, reshape mountains, redirect rivers, create new elements of the periodic table, and send rockets to other planets.

The next step in our mastery of principles of nature lies in full mastery of the powers of the atomic nucleus: controlled nuclear fusion.

Nuclear fission reactions, which have been under our control for many decades, release energy when a heavy nucleus (such as uranium) is split apart. Fusion

reactions unite two light nuclei (such as hydrogen and helium), releasing an order of magnitude more energy (per fuel mass) than fission reactions. However, making fusion happen is not simply "fission backwards," and it has challenged our basic assumptions about the behavior of matter and energy.

The potentials of controlled fusion are enormous. While the temperature inside a fission reactor can range from 300-1000°C,

ENERGY DENSITY

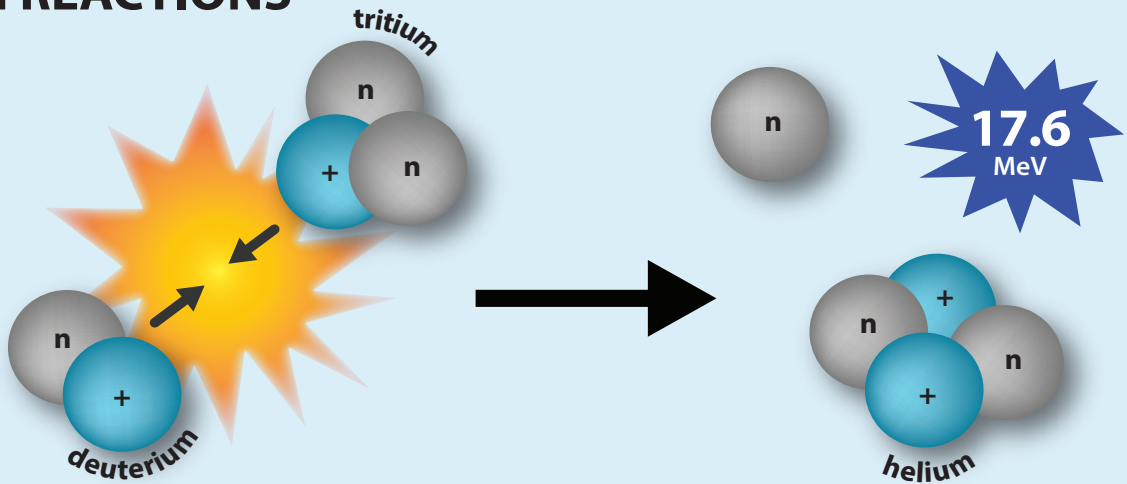
How much fuel would it take to meet New York City's electricity requirements for 1 year?*

FUEL SOURCE	TONS
wood	16,000,000
coal	8,000,000
petroleum	5,000,000
uranium [†] (fission)	55
deuterium-tritium (fusion)	0.7
matter-antimatter	0.003

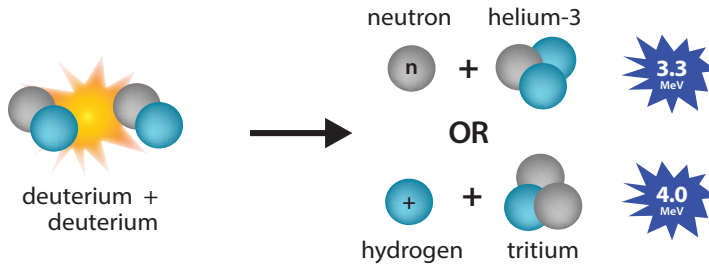
* based on 2015 consumption, disregarding conversion losses.
[†] uranium fuel, enriched to 5% U-235.

FUSION REACTIONS

D-T reaction



D-D reaction

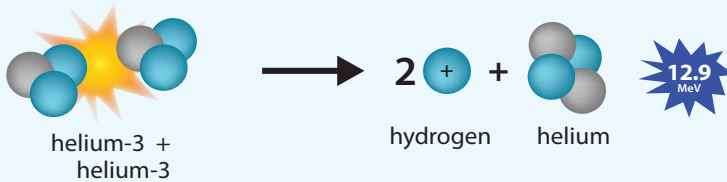


Deuterium fuel is abundant on Earth, in seawater.

Requires the lowest energy input of any fuel regime.



He-3-He-3 reaction

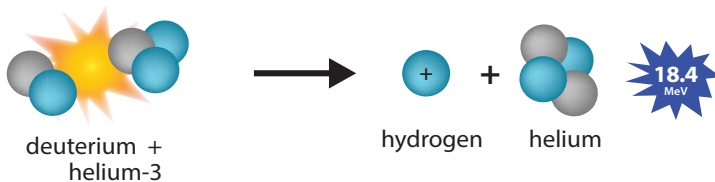


Helium-3 fuel is abundant on the Moon.

Products are all charged particles and can be used for rocket thrust, etc.



D-He-3 reaction



Helium-3 fuel is abundant on the Moon.

Highest energy yield per reaction.



Learn more about Fusion!



larouchepac.com/lunar-he-3-fusion

temperatures inside fusion reactors are in the tens of millions, to hundreds of millions of degrees. This means that we are interacting with matter in an entirely new way, since any material is vaporized at such high temperatures, and becomes a superheated charged gas, called a plasma.

The power of fusion is seen both in the sheer magnitude of power produced, and also in unique qualitative properties of high temperature plasmas. Inside a tokamak—one type of fusion machine—when fusion occurs, energy is released in the form of electromagnetic radiation and charged particles. The heat and charged particles created can be used to produce abundant electricity very cheaply, and the full spectrum of products of fusion reactions have other applications in industry, medicine, mining, and other sectors of the economy. The resulting increase in the productivity of the labor force will support increased lifespans, population density and quality of life, both on and off the planet.

The advancements of a fusion economy are at our fingertips, and can be brought about by a firm commitment to an international crash program effort, within a new paradigm of international cooperation.

Fusion is a Space Platform

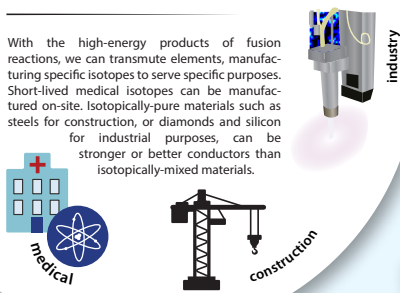
Applying the immense power of controlled fusion on Earth will transform our species' relationship to nature in an almost unimaginable way, but its full potential is extraterrestrial. Fission and fusion power will allow us to live and work in other places in the Solar System, and to transform them, in a way that is impossible with chemical power alone.

The process will begin on the Moon, our nearest planetary neighbor—and a rich depot for fusion fuel! For billions of years, the Sun has been depositing helium-3, an isotope of helium, via the solar wind onto the surface of the Moon, where it is held within the upper layers of the lunar soil. Helium-3 is very rare

APPLICATIONS OF FUSION PLASMAS & TECHNOLOGY

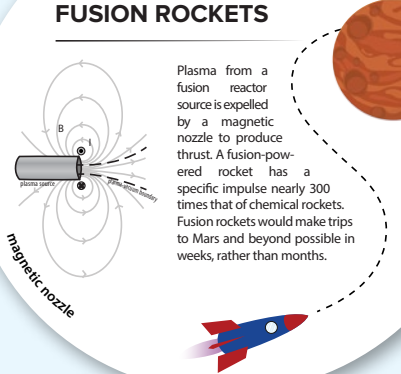
TRANSMUTATION

With the high-energy products of fusion reactions, we can transmute elements, manufacturing specific isotopes to serve specific purposes. Short-lived medical isotopes can be manufactured on-site. Isotopically-pure materials such as steels for construction, or diamonds and silicon for industrial purposes, can be stronger or better conductors than isotopically-mixed materials.



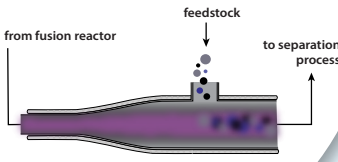
FUSION ROCKETS

Plasma from a fusion reactor source is expelled by a magnetic nozzle to produce thrust. A fusion-powered rocket has a specific impulse nearly 300 times that of chemical rockets. Fusion rockets would make trips to Mars and beyond possible in weeks, rather than months.



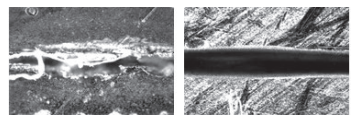
FUSION TORCH

Plasmas inside fusion reactors reach temperatures of millions of degrees, hot enough to vaporize any material, breaking it down into its constituent elements. In the 1960s, Eastman and Gough developed a design for the fusion torch, in which any feedstock, from material from landfills to scrap metal to dirt, could be turned into plasma, and the constituent elements separated and harvested. We could then mine landfills for our commonly used resources, or easily harvest resources from low-grade ore.



PETAWATT LASER

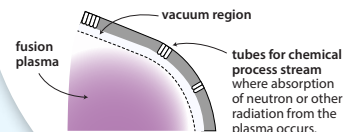
The petawatt (quadrillion watt) laser, originally developed for laser inertial fusion, is many orders of magnitude more powerful than conventional lasers. This leads to qualitative increases in our power over nature. When used for industrial purposes, it can vaporize the target material while transferring little to no heat to the surrounding material—a non-linear leap in precision for cutting and machining.

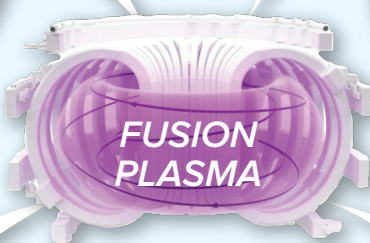


Steel cut with a conventional laser (left) and petawatt laser (right).

CHEMICAL PROCESSING

The industrial processing sector consumes over 30% of energy in the U.S. Controlled fusion reactors can provide 1) high temperature thermal energy, 2) electrical energy, 3) neutron and gamma high energy radiation, all of which can be used for chemical processing on a mass scale. Temperatures up to 3,000°C, plentiful electricity for electrolysis, and gamma and UV radiation can revolutionize or make economical mass production of heavy chemicals, aluminum, ozone, methanol, ultraviolet radiation for sanitation, water, etc.





FUSION PLASMA

for more, visit:
lpac.co/forging-fusion
lpac.co/fusion-torch
lpac.co/world-mine

on Earth, but estimates are that there are 1 million tons of helium-3 on the Moon, which would be enough to power civilization on Earth at current levels of consumption for millions of years.

Helium-3 is an ideal fusion fuel. Fusion of deuterium and helium-3 releases more energy than any other fusion fuel regime (see diagram), and unlike other fuel combinations, the products of the reaction are almost entirely charged particles—which can be controlled with a magnetic field. This means that they can be used to produce electricity directly and efficiently, and also as thrust in fusion rockets. With nuclear

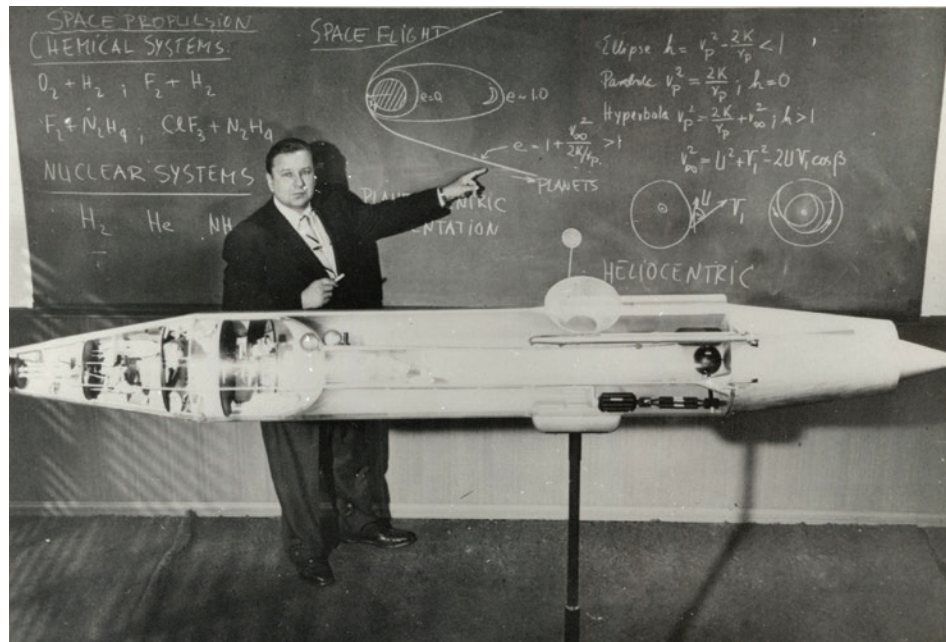
power we can maintain our work and industries through the two-week-long lunar nights. Nuclear rockets can power flight to distant bodies like Mars in weeks, as opposed to months.

With fusion power, we will upshift our species to one which can extend and maintain its existence throughout the inner solar system, and perhaps beyond, and begin to fulfill our role as a creature from Earth with an extraterrestrial imperative.

A Great Upshift in Civilization

The development of space is a vehicle through which civilization can and must unify around the common aims of mankind. This fulfills the inspiration of President Kennedy, who said:

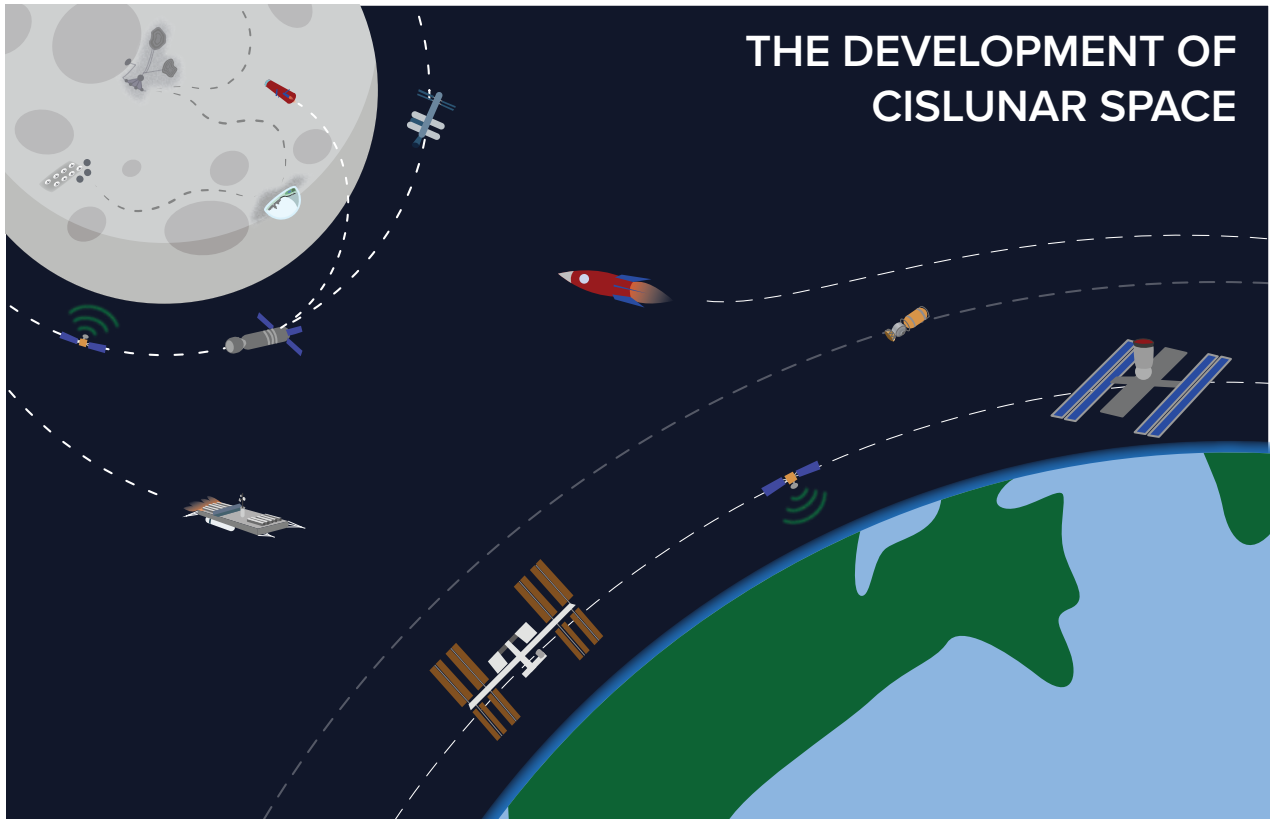
For the eyes of the world now look into space, to the moon and to the planets beyond, and we have vowed that we shall not see it governed by a hostile flag of conquest, but by a banner of freedom and peace. We have vowed that we shall not see space filled with weapons of mass destruction, but with instruments of knowledge and understanding.



Krafft Ehricke (1917–1984), visionary German-American space scientist and rocket engineer, who viewed mankind as a species whose destiny it was to leave planet Earth and colonize distant lands, beginning with the industrialization of the Moon (which he dubbed the “seventh continent”) and the development of cislunar space, followed by manned missions to Mars and beyond by means of nuclear rocket propulsion. Krafft Ehricke insisted that this outlook was not optional, but rather an “Extraterrestrial Imperative.” Photo: Krafft A. Ehricke Papers, National Air and Space Museum, Smithsonian Institution

We are looking at the immediate potential for international cooperation in the exploration and development of the Moon and the cosmic environment within the Moon’s orbit (cislunar space). This could get going right away, and would produce amazing results. Such a program would require new discoveries in the domain of high-energy physics, biology in the space environment, fission and fusion power, and related fields. In this first stage of development, we will establish the technologies, resources and capabilities needed to expand beyond, to places such as Mars.

China has taken a leading role in lunar missions in the recent decade, and has invited cooperation from all other nations—including the U.S. In 2017, China will return a lunar sample to Earth for the first time in 41 years, and in 2018, they will place a lander and rover on the far side of the Moon. Mankind has never landed anything—robotic or human—on the lunar far side, yet the unique geology of that location promises to tell us more about the history of the development of our Solar system than anything we can access on Earth; and by setting up a very low frequency radio astronomy observatory there, it will give us a glimpse into features of the Solar system, Milky Way galaxy and far distant galaxies which are



Pictured here is an advanced point in a staged program of lunar settlement. Prior to this stage, the Moon must be surveyed to map the location of minerals to be used later in operations on the Moon. A lunar space station will facilitate trips to the surface and develop experience living in close proximity to the Moon, with frequent trips between Earth and lunar orbit. Processing centers to create building materials are built in lunar orbit and on the surface, along with temporary housing. A radio-astronomy array is set up to observe the heavens. Eventually, a permanent habitat, the first lunar colony, is constructed.

simply impossible to see from Earth or Earth orbit.

The spinoff technologies generated by expanding the arena of human dominion to, first, cislunar space, then within the orbit of Mars, and then the entire heliosphere, have the ability to lift every nation out of poverty, cure every disease, feed every child, and render the tools and causes of war obsolete. For the reason, leaving the Earth will drive the greatest upshift in civilization on Earth in human history.

The commitment to space exploration will be the embodiment of the new paradigm, and must be based on the defense of the creative identity of the human mind. Human beings are a space-faring species, not meant to be confined to Earth: a species with a mission to discover and come to understand who we are as mankind in the Universe. We must

bring about a unified human mission that establishes a completely new view of the Solar System, defined not by the compartmentalization of space, but by a unified galactic system.

The great German-American space pioneer Krafft Ehrlicke understood that the industrial development of the Moon and beyond is not just a worthwhile undertaking, but in fact is nothing less than an extra-terrestrial imperative:

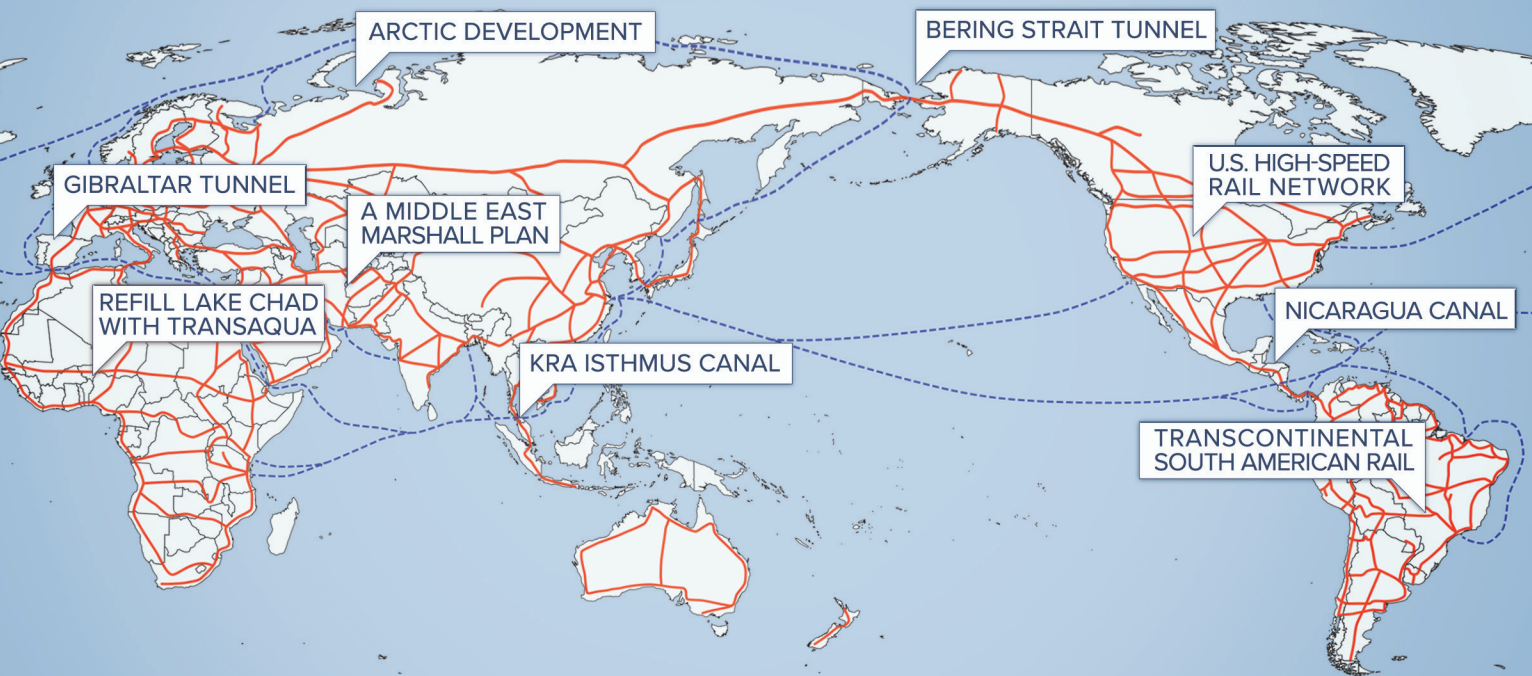
Space opens new horizons beyond Earth and offers new beginnings in ways we can manage this precious planet. It offers noble aspirations, opportunities for creative action, for bringing the human family closer together and contributing to a better future for all.¹

1. "The Case for Space" Krafft Ehrlicke, 1970.

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EXPANDING CHINA'S BELT AND ROAD INITIATIVE
A VISION FOR GLOBAL ECONOMIC DEVELOPMENT



THE ESSENTIAL PLEDGE FOR 2018 CAMPAIGNS:

I will end the criminal coup against President Donald Trump—no impeachment.

I will support the United States joining China's **Belt and Road Initiative** and collaborating with China, Russia, and other nations concerning the common aims of mankind.

I will implement LaRouche's *Four Laws for Economic Recovery*:

- 1.** Restoring the **Glass-Steagall Act** to separate commercial from investment banking and other speculative activities;
- 2.** Creating a **New Hamiltonian National Bank** to issue credit for economic development;
- 3.** Directing that credit to projects which increase the productivity and physical well-being of the population such as **large-scale infrastructure**;
- 4.** Creating a crash program for the **development of fusion power** and the expanded **exploration of space**.

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