

# Step Five: National Mobilization For the Construction of NAWAPA

by Tony Papert

*On Aug. 24, 2011, Lyndon LaRouche outlined a Seven-Step program as the only possible solution for the present threat of a global breakdown crisis. Having presented the overview in our Sept. 2 issue, and in-depth attention to Steps One, Two, Three, and Four—the removal of Obama from office and re-enactment of Glass-Steagall; the reinstatement of the Glass-Steagall standard; the application of Alexander Hamilton's credit system; and "honest bailouts" for the bankrupt cities and states, we now turn to Step Five: NAWAPA (North American Water and Power Alliance), of which LaRouche said:*

"Then we're going to have another category, which must become rapidly the largest category, and typified by a very specific program: This'll be major projects which are not only major projects to get the economy moving again, but to put a growth factor into the rate of expansion of the economy. Without this, we can not catch up on the margin of waste, the margin of decay, the margin of neglect, which has seized this economy.

"We then have to pick, as the key driver of this program of recovery, the only existing driver which is presently capable of bringing the United States safely up and out of the present world depression—and it is already a world depression. And anyone in Europe can tell you that, as well as in the United States. NAWAPA is the only project which has the characteristics and the specific effects needed for a recovery program. First of all, it's large enough in scale; its physical impact is large enough in potential scale. Its potential as a factor of growth in the economy, is the greatest we could achieve. So the Glass-Steagall project is now the keystone of the major chance of a recovery of U.S. economy, a real recovery, not just a temporary fixit.

"Because NAWAPA means a change in the entire water system of North America. The United States first, but potentially, under the original design, Canada, in general, which is a key part of the program, and also parts of northern Mexico, which are a part of the same essential water system, both that which exists presently, and which must be caused to exist, through expansion, immediately, in direction.

"So NAWAPA becomes the major driver.

"But you have to understand why it becomes a major driver: First of all, NAWAPA restores the water balance of the United States, so we don't have a food shortage. It also reverses the long depletion of water resources of the Western Plains, for example: We have been drawing down the water reserves of the Western Plains by pumping, without putting anything back in to restore those water supplies. The control of weather, through control of water, in this water system: For example, we had recently a case where we had, first, a massive flood of water accumulated in a basin defined by the Ohio, Mississippi, and Missouri rivers. That area is still affected by this. There are some parts that are immune, but in general the entire area is affected.

"So therefore, you have two questions: the water supply of the Western Plains, in general. You have the recent flooding problem in the north of the United States, going into Canada. You have also the vast drought which hit subsequently in the Spring and Summer months of this year, in another part, the Southern part, of the United States.

"So, what NAWAPA will do, among other things, is create a water-balancing system, through a system of canals, other connections, which bring the entire water system of that part of Canada, the United States, and northern Mexico, into a system with an augmented amount of water. Because NAWAPA will mean an aug-

mentation of the sheer mass of water available. It also means, for the distribution system, a minimization of the misdeployment of the available water supplies.

“So that is the potential driver.”

### Credit Must Start Flowing

Within minutes of the removal of Obama from office, and simultaneous restoration of Roosevelt’s Glass-Steagall protections, Federal credit must start flowing out through the 50 states, to rescue our people from the pestilence of homeless vagrancy, disease, and penury to which Obama has condemned them,—roughly as Harry Hopkins acted to rescue us, virtually within minutes of the passage of Franklin Roosevelt’s FERA Act in the relatively easier circumstances of 1933. Of itself, this action will simultaneously work to restore our gutted state and local governments.

Every sane patriot knows just why this must be done. But this by itself will not bring economic recovery.

For a recovery, we must reverse the entropic decay which has increasingly rotted out our economy, from the time of the assassination of John F. Kennedy, until its nadir under traitor and mental case Obama today. Or, in other words, reverse the circumstance that our economy is now operating at a massive and ever-increasing *loss* (in physical terms). The only possible way to do that, is through high-profit investment in enormous projects at the furthest outer edge of scientific breakthroughs. (We are speaking here of physical profitability; the notion of financial profitability as such will disappear with the coming end of monetary systems in favor of an American System style of Hamiltonian credit system.)

FDR and his allies, such as Republican Sen. George Norris of Nebraska, seem to have understood this, as witness the nation-spanning Four Corners project of which the Tennessee Valley Authority was a part. And this Four Corners project, as massive as it was, was only one part of the mobilization which ended the Depression and made the United States the greatest eco-



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nomie power ever seen: It must be subsumed within Roosevelt’s great mobilization of science and industry for the war and the subsequent peace, prominently including the Manhattan Project. And yet still, taken as a whole, that entire effort pales beside what we need in today’s more severe crisis.

The only project big enough for our needs today is NAWAPA, which is by far the biggest project ever undertaken by our species.

### NAWAPA, Space, and Nuclear Power

The original plans for NAWAPA were developed alongside those for the space program and for civilian nuclear power, into the years of the aborted Kennedy Administration. It aims to remedy nature’s faulty distribution of freshwater on this continent, by moving it from an area where it streams directly back into the ocean, never having performed any useful function on the land, to especially the water-starved areas west of the Rocky Mountains.

The initial NAWAPA plan is a series of projects designed to take large amounts of freshwater from Alaska and the Canadian Yukon, divert it before its runoff into the Pacific and Arctic Oceans, and channel it through

Canada, into the United States, and all the way to northern Mexico. This will be achieved by a series of dams, reservoirs, canals, tunnels, and pump lifts, many several-fold larger than any existing today. They will guide the water down the continent, allowing for the potential irrigation of an estimated 86,000 square miles in the three countries, transforming the arid landscape along the way.

By the intention of the original NAWAPA design, some of the most severe water shortages of the United States will be solved. For example, large amounts of water will be added to the desperate water systems of

California. This will reverse the depletion of the massive Ogallala Aquifer, which is supplying a diminishing amount of fossil groundwater to millions of acres of farmland in Texas, Oklahoma, Kansas, New Mexico, and other states.

Nearly 50 million more acres of irrigable land will become available in the United States, almost doubling irrigated acreage west of the Mississippi. The U.S. will be transformed from a country which cannot even feed its own people under Obama, to a breadbasket for today's world.

## Small Projects Won't Work

Only NAWAPA provides the high level of physical-economic gain required to rescue our economy from today's last stage of prostration. For example: Local U.S. water projects were only able to develop 2 million acre-feet of water per year during the four years preceding 1979—itsself a high level of development for the post-New Deal period. But at that rate, it would take 65 years to provide the benefits of NAWAPA, rather than 10 to 20. That, while the Ogallala Aquifer may be exhausted before 2020! Sixty-five years, that is, assuming it were possible to provide those benefits through local projects at all. But it isn't, because the greatest sources of available water are not in the continental U.S.A., but Alaska and Canada!

A fuller exploration of this point requires an understanding of why Lyndon LaRouche recently replaced the obsolete concept of "infrastructure," by what he calls "platforms." While it is impossible to do any justice here to LaRouche's concept of "platforms," we can at least point towards the area where that concept resides:

Note first that significant increases in productivity do not start with changes at the local "point of production," contrary to a myth common to Marxists and so-called "free-market capitalists." The revolution in the productivity of grain farming in the 19th/20th-Century United States, for example, first required the inexpensive long-distance transport

provided by our network of canals and railroads.

But those canals and railroads, in turn, did not appear in isolation from an entire, interwoven system of revolutionary simultaneous physical-economic, scientific, and cultural improvements. Leaps in human productivity, longevity, and quality of life, only occur when brought about by such a new, higher "platform."

An early example was the revolution based on astronomy, which occurred during the last Great Ice Age (approximately 110,000 to 10,000 years ago), and permitted regular transcontinental travel by means of celestial navigation, allowing us, for the first time, to find our way in the trackless ocean by knowing how to read the map of the heavens. Once you recognize that all Greek and Sanskrit mythology, and even religion, are rooted in this new, revolutionary astronomy, you must recognize that it marked a dramatic upgrading of all aspects of human life, a "platform" in LaRouche's terms.

And if you read Prometheus' mythical account of the benefits he brought to mankind in Aeschylus' play, you will see that what he brought was precisely this "platform."

The NAWAPA project as we are proselytizing for it—inextricably linked with a new age of space exploration and then colonization, with an enormous renaissance in nuclear, and then fusion power, with scientific advances reflecting Vladimir Vernadsky's advance beyond Bernhard Riemann, with a linking of the Old and New Worlds over the Bering Strait, and with a Great Pacific Alliance then spreading out to encompass most or all nations—is such a "platform."

Water will even be diverted into the Great Lakes system, refilling the supply in the Eastern United States. In total, the majority of all the States in our Union will receive direct benefits in terms of water supplies.

The modifications of the original plan being developed by LaRouche and his “Basement Team,” elaborate the project by building high-speed rail lines for both passengers and freight, new nuclear reactors, and even new cities.

NAWAPA itself creates directly and indirectly 4 million jobs, plus an additional 3 million jobs in such necessary auxiliary areas as nuclear power-plant production and others, as well as the conventional, high-speed and maglev rail development needed for transport to the construction sites, which are heavily concentrated in Idaho and other under-populated states and Canadian provinces which lack adequate transport.

These 7 million jobs are not make-work, but highly productive employment. Scientists, engineers, and skilled workers will be called back to work; indeed, workers in the numbers and with the skill levels required for NAWAPA no longer exist in today’s ruined economy, and extensive on-the-job training will be required to provide them.

### **A Vernadskian Program**

NAWAPA may not appear as frontier science to the misinformed, who limit the use of those terms to quantum particle physics and such, but for those who have begun to contemplate the breakthroughs by Russian-Ukrainian scientist Vladimir Vernadsky during the 1930s, it should be readily apparent. Vernadsky showed that no part of the universe can be understood apart from the interpenetration everywhere of the distinct phase-spaces of the so-called abiotic, the biotic, or living, and the noëtic, that of human creative cognition which is superior to both.

Note, in this connection, that NAWAPA brings mankind much more fully as a force for positive change, into two of the most challenging environments on our planet: the Great American Desert, and the Arctic region.

Massive irrigation of the U.S. to the west of the present 20-inch rainfall line, to develop it despite Teddy Roosevelt’s prohibition from the early 20th Century, will permanently modify the climate of this area through the organic-inorganic water cycle, moderating the extremes of climate. This must be grasped as part of a

massive project of bioengineering, a preparatory step towards the future terraforming of Mars and other sites of space exploration and colonization. This direction of bioengineering is also one in which leading groups in China have been moving over decades.

Creating a permanent presence of civilization in the northern regions will transform our current scientific perspective of the Arctic, from isolated research stations in remote and dangerous conditions, into an active scientific capability. With the Arctic’s unique proximity to the singular electromagnetic conditions of the Polar regions, the complex of electromagnetic relationships, which define the Earth-Sun-Solar System magnetic interactions and have determined the evolutionary processes of the Biosphere, will finally be integrated into the power of man’s understanding and economy.

Here of course, we join Russia in the pioneering exploration and conquest of the Arctic region, with its incalculable value for science, and for humanity otherwise.

### **The Bering Strait Link**

NAWAPA must be understood today as incorporating a bridge and a tunnel across the Bering Strait, creating the first land-bridge from the Old to the New World, since the ancestors of our Native Americans crossed over in successive waves many thousands of years ago. The Bering Strait link will connect the U.S. to Siberian Russia, whose full development, with its vast mineral resources, is of immediate critical importance for China and the rest of Asia.

NAWAPA is the keystone of what LaRouche has called “The Grand Pacific Alliance,” of the United States, Russia, and China, which is the seed-crystal of tomorrow’s world order of perfectly-sovereign nation-states, cooperating on behalf of what the late scientist Edward Teller called “the common aims of mankind.”

As LaRouche’s “Basement Team” has written, “NAWAPA’s approach signifies a change in the organization of the planet as a whole, and its application will set off a pattern of sovereign nation-states acting as sovereign nation-states, utilizing the full compass of their own territories for the scientific benefit and increasing power of their citizens. The increase of the infrastructural density and land-management techniques will lead to a guaranteed increase in the productive powers of labor, per unit of relevant territory, and at greater rates than ever before, for every continent where the principle is applied.”