

Public Written Comments

Submitted to PCAST **May 19, 2015 - July 6, 2015**

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THE POLICY SCIENCES CENTER, INC.

Project Director: DR. LLOYD ETHEREDGE



Dr. John Holdren, Science Adviser and Members
President's Council of Advisers on Science and Technology
Eisenhower Executive Office Building
1650 PA Ave., NW
Washington, DC 20504

Re: A Red Team Project to Improve Economic Science

Dear Dr. Holdren and PCAST Co-Chairs and Members:

Would PCAST be willing to recommend to President Obama a Red Team project to challenge the scientific assumptions and models of economic science? The enclosed article by Nelson Schwartz ("U. S. Economy Contracted 0.7% in First Quarter," The New York Times, May 29, 2015) illustrates the urgency and prudence of learning whether conventional wisdom about recovery economics can be improved by creative thinking and the best available scientific methods. America has applied conventional solutions - large deficits and fiscal stimulus and near-zero real interest rates - for many years without the rapid recovery that everybody wanted to achieve. Conventional explanations of the continuing shortfalls (e.g., "these things take time," "maybe it is the weather") may be excuses. I believe that we can do a great deal better.

The Red Team method is a well-recognized tool in the national security world to challenge the conventional wisdom of established institutions. The Red Team should have brilliant independent leadership and a budget for its own R&D data systems: its task will be to move quickly to identify a full range of promising ideas about economic behavior and recovery economics that go beyond conventional wisdom and to evaluate, with evidence, the power of the new variables, metrics, models and data analysis methods. I believe that the Red Team can quickly identify a range of additional variables and causal pathways affecting economic behavior and the current recovery process. In turn, the new discoveries can stimulate fresh thinking about new policy tools to shift behavior of key actors and accelerate a return to sustained economic health in the US and other countries.

A Red Team project for scientific discovery (including unexpected discoveries) would be thrilling, and galvanize creative thinking from many academic disciplines and stakeholders.

Concerning the design of a Red Team project, would you be open to suggestions?

1.) Multi-disciplinary participation. a.) NIH's "Everything Included"/Big Data strategy is achieving stunning, unexpected discoveries for cancer and other major diseases. Equivalent R&D data systems

The Policy Sciences Center Inc. is a public foundation.

The Center was founded in 1948 by Myres S. McDougal, Harold D. Lasswell, and George Dession. It may be contacted c/o Prof. Michael Reisman, Chair,



for economic behavior, based on an inclusive set of behavioral variables analogous to genetic data and paradigm-busting machine learning analysis - may transform our understanding of economic behavior (e.g., consumer behavior); b.) Within NSF, computer scientists have taken a leading role to develop the science of learning systems: economists such as Joseph Stiglitz (Creating a Learning Society, with Bruce Greenwald) also suggest that this new framework will produce new variables to understand and improve economic vitality; c.) 20th century economic theory was built on simplifying assumptions and a limited set of variables defined by accountants and the tax code: now, psychologists and other social scientists can add an inclusive universe of variables that are likely to be affecting behavior, especially in non-standard circumstances with the unexpected breakdown of trusted institutions and a need to restore confidence.

2.) Private sector participation. Private sector actors can be an extraordinary source of new insights. Many companies (e.g., Mastercard) generate and mine behavioral data. Hedge fund managers are passionate about buying data (including psychological data) and using scientific methods to improve economic forecasting. These companies might have leaders who are interested to design and participate in a Red Team: Unexpected discoveries of the Red Team R&D system, showing how different variables from different sources can be combined, can build new businesses for private sector data companies and new insights that data-oriented companies can apply.

3.) International participation. Andrew Haldane, Chief Economist at the Bank of England, is providing bold leadership to search for fresh ideas and include missing variables. He has a staff of several hundred economists responsible for improved models of different national economies and sectors. Many of the fixed coefficients in national macro-economic models now appear, in comparative perspective, to be compounds of psychological and cultural variables alongside conventional rational choice. Comparative data systems have special value to learn about these variables, the reasons for different policy responses in different nations, and to see a wider world of refined policy tools that these discoveries stimulate.

4.) Intelligence agency liaisons. One of President Obama's first instructions (to the CIA) was to expand intelligence capabilities and economic analysis to improve economic forecasting and prevent the catastrophic blind-siding of the economic crisis that he inherited. The DNI system uses a wide range of new data and methods to challenge its own understanding of economic behavior and improve forecasts. It would be worthwhile to include their expertise and bring their discoveries to the public domain and academic literature.

5.) Honest Broker Commitments. The enclosed paper, "Ayn Rand + Brain Science = ?", discusses new metrics recommended by former Fed Chairman Alan Greenspan. There is a set of beliefs, shaping the thinking of Republican intellectual leaders in Congress, which NSF has never tested. There will be a much healthier future for public policy discussion, and for Republican support of NSF and the science budget, if the Red Team includes a rapid learning/Honest Broker commitment to include and test these variables in forecasting models.

I think that we can make extraordinary, rapid progress - on behalf of America and to the benefit of billions of other people around the world - if PCAST can create a vehicle to use the best available scientific methods, and assemble a Red Team with extraordinary leadership and members.

I was trained to do this kind of work: I would like to be involved.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Lloyd S. Etheredge". The signature is written in a cursive style with a large initial "L".

Dr. Lloyd S. Etheredge
Project Director

Enclosures:

LSE, "Ayn Rand + Brain Science = ?" May, 2015, unpublished.

Nelson Schwartz, "U. S. Economy Contracted 0.7% in First Quarter," The New York Times, May 29, 2015.



The New York Times | <http://nyti.ms/1eCNO42>

ECONOMY

U.S. Economy Contracted 0.7% in First Quarter

By **NELSON D. SCHWARTZ** MAY 29, 2015

The United States economy got off to an even weaker start this year than first thought, the government reported Friday, as economic activity contracted because of a more dismal trade performance and continued caution by businesses and consumers alike.

The 0.7 percent annual rate of decline in economic output in the first quarter of 2015 was a reversal of the initial 0.2 percent advance for the period reported last month by the Commerce Department.

Although statistical quirks and one-time factors like wintry weather in some parts of the country played a role, as did a work slowdown at West Coast ports, the lackluster report for January, February and March underscores the American economy's continuing inability to generate much momentum.

The pullback was the third time that economic activity had posted a quarterly contraction since the current recovery began in mid-2009, with declines in output in the first quarters of 2011 and 2014. Even acknowledging flaws in the way the government takes account of expected seasonal variations, that on-again, off-again pattern helps explain why annual growth rates in recent years have been well below the pace of gains recorded in the 1990s and mid-2000s.

Much of the revision reported Friday was spurred by new data showing that exports fell more than first thought and imports rose higher. Economists

at Goldman Sachs noted that the change in the trade balance shaved 1.9 percentage points off overall growth last quarter, the largest quarterly drag from net exports in three decades.

Volatile even in the best of times, the trade balance is especially hard to gauge in the wake of a labor dispute and slowdown at West Coast ports. Although the balance was negative in the first quarter, some experts like Ian Shepherdson of Pantheon Macroeconomics say a return to normal trade patterns could propel a healthy rebound in the second quarter.

But he cautioned that the data remained in flux and warned that even his own estimate could end up being wide of the mark.

“Anybody estimating gross domestic product for the second quarter is kidding themselves, because the trade data is so unpredictable at the moment, and we have no hard numbers yet,” Mr. Shepherdson said. “I’m guessing there will be a reversal in trade flows, and we’ll see 3 percent growth in the second quarter. But it could be anywhere between 1 percent and 5 percent.”

Exports had been a particularly bright spot for the American economy in the first years of the recovery, as world trade rebounded from the plunge that followed the financial crisis in late 2008 and early 2009. Those gains have moderated more recently, and are likely to remain under pressure as the stronger dollar makes American goods more expensive for overseas buyers.

Most experts had expected the data released on Friday to show a contraction in the first quarter, and virtually no mainstream economists are predicting that the economy is about to fall into a recession. Still, the weak start for the year is a crucial reason that the Federal Reserve has pulled back from any plans to raise short-term interest rates in June, with officials now suggesting that the first rate increase from near zero is not likely to come until September or even later this year.

Although Wall Street and the Fed are already looking ahead to the June 5 report on employment gains in May and other more recent data, the rearview mirror take on economic activity discouraged buying on the stock market. At the end of trading on Friday, the Dow Jones industrial average, the Standard & Poor’s 500-stock index and the Nasdaq were all off 0.6 percent. Bond yields

also crept lower.

After the economy grew at an annual rate of nearly 5 percent in the spring and summer of 2014, some experts concluded that the economy had found its footing and predicted that a healthier, sustained growth rate of near 3 percent was finally at hand.

The new data for the first quarter of 2015, and signs of only a tepid rebound in the current quarter, are forcing some economists to rethink earlier assumptions.

“This isn’t the off-to-the-races kind of expansion we envisioned six months ago,” said Scott Anderson, chief economist at Bank of the West in San Francisco. “More and more folks are coming around to the view that the long-term growth rate of the American economy is 2 percent, at best. We can’t sustain 3 or 4 percent growth for very long, so it’s two steps forward, one step back.”

Although cloudy, the economic outlook is not particularly dark.

Unemployment has been falling steadily, and experts think it could fall to about 5 percent by the end of the year, from 5.4 percent now. The jobless rate stood at 8 percent a little over two years ago.

The real estate market has also been robust as of late, with a measure of pending home sales last month hitting a nine-year high, according to data released Thursday by the National Association of Realtors. New-home sales and construction were also strong in April.

Indeed, an upward revision in residential construction last quarter offset some of the weakness elsewhere.

Despite the windfall provided by lower gasoline prices, consumer spending, which accounts for roughly two-thirds of economic activity, was only modest. Personal consumption rose by 1.8 percent last quarter, down from 4.4 percent in late 2014.

Experts say some of the weakness in the first quarter of the year reflects how the numbers are analyzed by government statisticians to account for seasonal variations, like the retail slowdown that follows the holiday shopping season or business activity that is lowered as temperatures plunge.

That process, known as seasonal adjustment, may indeed have exaggerated the underlying weakness last quarter, according to an analysis by private economists at firms like Barclays and Macroeconomic Advisers, as well as at the Federal Reserve Bank of San Francisco.

Whatever role that seasonal adjustments did play, however, Mr. Anderson cautioned against dismissing the first-quarter weakness as entirely a statistical quirk.

“Some economists have been trying to explain away the negative numbers,” he said. “I don’t think it’s so easily dismissed. We will get a modest bounce back this quarter.”

In particular, he said, the dollar’s surge against foreign currencies like the euro is hurting manufacturers and other exporters, a trend that is likely to continue even with the resolution of the West Coast port slowdown.

Although Mr. Anderson expects the annual rate of growth to rebound to above 2 percent this quarter and to about 3 percent in the second half of 2015, that still leaves his estimate at 2.2 percent for the annual growth rate for the year. Last year, the economy grew at an annual rate of 2.4 percent.

“There’s some truth to the statistical issues and the one-time factors, but we are still left with a real deceleration,” Mr. Anderson said. “Two percent is probably where the economy will gravitate longer term.”

A version of this article appears in print on May 30, 2015, on page B1 of the New York edition with the headline: Winter Shudder for Economy.

Ayn Rand + Brain Science = ?

by

Lloyd S. Etheredge

Advances in neuroscience make it possible to test Republican ideas about Ayn Rand economics. If Congress agrees, we have the power to create a new and better future for domestic politics and economic policy. Republicans, instead of their current attack on the National Science Foundation's social science budget, should increase the NSF budget with an agreement for an Honest Broker research program to support rapid learning. The Michelson-Morley experiment yielded data that changed the future of physics: Republicans can create the same impact for economic science.

Today, the revolutionary data will be brain scans. At one level, most psychologists and many Americans accept key ideas from Ayn Rand's personal philosophy. As an "if . . . then" proposition: if people adopt a framework of responsibility for their own lives and futures, their lives and society will work better than if they think of themselves as victims of society; or wait, dependently, for benefactors. However Republican intellectual leaders and activists take a second step for which the scientific data have been lacking: they see a national hierarchical psychodrama with a large federal government and a Democrat-created welfare state with backward links to personality structures and motivation of the American people. The unhealthy emotional effects of this clinical syndrome are so strong that they induce passivity and despair, and disorder lives (47% of Americans, in Governor Romney's estimation). The truth of this second idea depends upon how reality is wired-up in the imaginations (and brains) of different people.

This is an exciting time for scientists. The evidence to evaluate this claim lives, undiscovered, in new NSF-supported brain scans and random samples drawn from selected populations.

Will Ayn Rand soon join Keynes in the pantheon of economic theorists? Republican activists might be deluding themselves: strong psychological links to public psychodramas only may be true of political activists themselves and have nothing to do with the social and economic pathologies of (for example) Baltimore. Or we could discover that the psychological drama and impress of the federal government and national politics is created by the mass media: if individual emotions are tied to political dramas a contributing causal pathway may be the televised construction of reality and breathless political reporting by Fox News that creates the

problem, with most Americans being unaware of any objective size of government and barely following the endless Washington arguments about billions or trillions of dollars.

Alternatively, unexpected neuroscience discoveries might emerge. Cross-species primate evidence suggests the possibility of a Primate Subordination Syndrome. Lower status may automatically trigger an unrecognized brain mechanism that inhibits motivation, changes the endocrine system (including male testosterone levels), affects addictive and other behaviors, reduces health, and induces postural and other changes. Across nations, the "status gradient" effects on health hold even with access to good national health care and adjusting for class-related differences in smoking and related health behaviors. A Republican "dependency" theory of problems of economic and social participation and academic achievement in lower status populations may be misinterpreting the brain mechanisms.

Until now, the National Science Foundation has been cautious about getting into the middle of American political arguments. However, opposing camps are moving closer to an agreement. The academic economist Paul Krugman, although he believes that the intellectual leadership of the Republican Party in Congress has dangerous and foolish ideas, acknowledges that their "Ayn Rand novel" ideas about reality are a coherent theory. Because Krugman's economic science was created in the 1930s with simplifying assumptions and variables defined by accountants and the tax code it has never measured Ayn Rand's ideas about motivation and freedom, or the social psychology of healthy, strong, responsible, self-starting individuals. On the Republican side, the economist and former Fed Chair Dr. Alan Greenspan (also, an advocate of Ayn Rand's philosophy) has written a book about the future of economic forecasting ([The Map and the Territory](#), 2013). He advocates new, direct measures of these psychological and cultural ideas in government data and forecasting equations in the US and abroad. This is bold, statesmanlike leadership. Earlier, Ronald Reagan's first OMB Director, David Stockman, was so mistrustful and competitive that he threatened to eliminate the entire NSF social science budget if it dared to create new measurements and a research program to test Reaganomics. Greenspan, at least provisionally, is willing to trust our scientists and research universities to test Republican claims, and his own beliefs, with integrity. He is right to do so. He also is right to call-out liberal academics like Paul Krugman and Larry Summers to test the missing variables in their equations and worldviews.

Recycling ideological arguments about reality and political impasse do not have to define America's future. The scientific method is one of the greatest inventions of the human race. We should use it.

Lloyd S. Etheredge, a political psychologist, is author of “Wisdom and Public Policy” in R. Sternberg and J. Jordan (Eds.) A Handbook of Wisdom: Psychological Perspectives (Cambridge University Press, 2005). He directs the Government Learning Project at the Policy Sciences Center, Inc. a public foundation in New Haven, CT.

CREATIVE INVESTMENT SUGGESTION TO MADAM TEROLYN .P. WATSON THE ELECTED WARD 3 FORT MYER CITY COUNCIL LEADER ON HOW SHE CAN TURN FORT MYER JUNK YARD WASTE INTO WEALTH CREATION AND PROMOTE A CLEAN ENVIRONMENT

From: "abegunde timoty" [REDACTED]
Date: Sat, July 4, 2015 9:31 pm
To: "pcast@ostp.gov" <pcast@ostp.gov>

This idea is to examine the benefits that can be derived by the people of Fort Myer city in turning junk yard wastes to create wealth for themselves and promote environmental sustainability and a conducive clean environment.

INTRODUCTION

What is waste? Waste is anything that is no longer of use to the disposer. It is also defined as any unavoidable materials or industrial process, but has no immediate economic value or demand and must be disposed off.

Why manage waste? The issue of pollution is a global concern and the management of solid/domestic waste has become an issue for sustainable environment which must not be neglected. Anas and Lee (1988) warned that the continued neglect in tackling our waste is tantamount to postponement of the problem at the expense of our health and clean up costs to be borne by future generation. So waste management promotes re-cycling of waste and seek to gradually reduce wastes with the ultimate aim of eliminating those that have the proportion to cause harm to people and the environment .We have three forms waste namely

- (a) Solid /domestic waste from broken bottles, papers, plastics, can, food remnants, food sacks, pure water bags, casings etc.
- (b) Liquid Waste from water emanating from industrial effluent, acid waste, domestic liquid etc.
- (c) Gaseous Wastes from gas flaring, particulate dust, waste gasses from factories, cigarette fumes etc.

The common wastes at Fort Myer city junk yard are solid wastes and the best way to manage it is by using principle of minimization, principle of segregation and by treatment.

The principle of minimization: It involves the use of 4RS which is explain below

- (i) R: is for reduce which stands for reduction in the level of waste
- (ii) R: is for reuse which stands for return of materials to the suppliers to be refilled.
- (iii) R: is for recycle which stands converting wastes into more useful and suitable materials.
- (iv) R: is for recovery which stands for sorting out useful materials from the waste dump to be recycled

The principle of waste segregation: It helps to redistribute waste in their categories using containers of different colours. For example waste at Fort Myer junk yard can be distributed in the following order

- Ø General Waste: Black bin, packing material, rags.
- Ø Food waste: Green Container
- Ø Glass Waste: Blue Container
- Ø Paper Waste: Black Plastic bags
- Ø Plastic Waste: Brown Container
- Ø Metal Waste: Black Metal container
- Ø Batteries : Grey Container
- Ø IT Waste Accessories: White Container

The treatment of waste:

This involves physical/biological treatment. For example the Fort Myer City Council under the

leadership of Madam Terolyn .P. Watson can provide moveable septic tank disposal in all areas within Fort Myer city so that wastes can be disposed easily.

HOW FORT MYER CITY COUNCIL CAN TURN THEIR JUNK YARD WASTE PRODUCTS TO WEALTH CREATION.

Fort Myer City Council can organize a skill acquisition training programme to be conducted by creative experts in the field of tailoring/fashion designing, black smithing and waste recycle expect to train people on how they can turn their junk yard waste material to a useful one in order to earn a living from it.

For Instance, metal scrap material can be recycled to make tyre rim for cars and drums for sale.

Also, empty cans of soft drinks and hot drinks can be redesigned and serve as house decoration, window frames, new soft drink cans, scrap metals for cars, bicycles etc.

Moreover, used papers can be turned into toilet paper or tissue, cardboard, animal bedding products, insulating paper board etc.

More so, used plastic bottle can be recycled into a good quality soil improver or fertilizer, carpet, paneling, bags and plastic furniture.

In addition, used nylons and cellophane bags can be washed, dried and sewed into fashionable nylon bags for sale.

Furthermore, people that want to go into farming should be taught how to make organic fertilizers from household waste. By doing this, people will no longer depend on the government to provide them inorganic fertilizers. This knowledge of how to produce organic fertilizer acquired by the people will enable them to set up their own business of making organic fertilizers from household waste for sale.

HAZARDS OF POOR WASTE MANAGEMENT

The following below are hazards of poor waste management

Ø It causes foul odors which can lead to loss of community pride

Ø It provides abundant food for houseflies, cockroaches, and rodents which can transmit harmful bacteria and virus leading to an epidemic.

CONCLUSION

The essence of this idea about junk yard waste management is to make the people of Fort Myer to be self employed, self reliant, earn a living and promote environmental sustainability and a conducive clean environment.

Mr. Timothy Abegunde . {A certified Safety Officer and a B.sc (Hons) Degree holder in Geography from University of Ilorin, Nigeria.}

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MY PERSONAL CONTRIBUTION IN DEVELOPING FORT MYER CITY BY INVESTING ON BIO-FUEL TO TACKLE CLIMATE CHANGE, POVERTY, INSECURITY AND UNEMPLOYMENT.

From: "abegunde timoty" [REDACTED]
Date: Sat, July 4, 2015 9:33 pm
To: "pcast@ostp.gov" <pcast@ostp.gov>

Bio-fuels have been hailed as a solution to climate change and way to reduce poverty. The White House Office Science and Technology can go into collaboration with Fort Myer city council elected ward candidates to produce bio fuel in order to create jobs and solve the problem of unemployment and insecurity in Fort Myer city.

Bio-fuel can be produced from specially grown crops, from multi-use plantations, or as a by-product of other agricultural activities. The two main types are bio-ethanol, made from sugar or starch crops like cassava and bio-diesel made from vegetable oils. Bio-ethanol has been in production for longer and accounts for most global productive, with Brazil being the main producer. The European Union is the main producer of bio-diesel. The production of both is increasing steadily, with many countries becoming involved.

Bio-fuel can tackle insecurity in Fort Myer city as it can promote employment opportunities because some bio-fuel production system requires significant labour. The elected Fort Myer city council candidates should diversify into production of bio-fuel to create more jobs for their citizens. By doing this, the increase rate of poverty and unemployment in the area will be reduced. Apart from this, the sale of bio fuel will be cheaper and affordable to buy by the citizens of Fort Myer City. The White House Office of Science and Technology should help the elected Fort Myer council wards candidate in promoting agriculture and diversified into production of ethanol to create jobs for the youths of Fort Myer city. The youths in Fort Myer city will be able to see agriculture as a lucrative business when there is high demand for cassava, sugar cane and other food commodities by energy industries base in the United States of America to produce ethanol.

Bio-fuel can solve the problem of climate change in Fort Myer city as bio-fuels are cheap and environmental friendly. The sale of Bio-fuel will be affordable and economical for use by people residing in the rural areas and urban areas of Fort Myer City.

Finally, Bio-fuel will enhance the economy of United States of America as their currency will do well in the exchange market because they producing bio-fuel. The bilateral trade agreement between United States of America and some developed countries that are into bio fuel production will be enhanced as bio-fuel is a renewable resource which cannot be exhausted.

Mr. Timothy Abegunde { A Certified Safety Officer and B.sc (Hons) Degree holder in Geography from University of Ilorin, Nigeria.}

Telephone: [REDACTED]

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SUGGESTION TO DR JOHN P.HOLDREN OF THE WHITE HOUSE OFFICE OF SCIENCE AND TECHNOLOGY POLICY TO ASSIST NEWLY ELECTED FORT MYER CITY COUNCIL LEADER MADAM TEROLYN .P. WATSON IN ESTABLISHING A SOFT DRINK COMPANY IN FORT MYER USING HIBISCUS SABDARIFFA PLANT. MADAM TEROLYN .P. WATSON PHONE NUMBER IS 00912392655455.

From: "abegunde timoty" [REDACTED]
Date: Sat, July 4, 2015 9:37 pm
To: "pcast@ostp.gov" <pcast@ostp.gov>

Hibiscus Sabdariffa (Roselle) is a supplemental herb that is derived from the plant's calyces, which are the collection of sepals separating the blooming flower from the stem. Hibiscus Sabdariffa (of the Malvaceae family) is the plant where its leaves and stems are commonly referred to as Hibiscus tea and sometimes is refer to sour tea. Hibiscus Sabdariffa is being called Folere Bissap in Cameroon, Sobolo in Ghana, Sorrel in the Caribbean, Bissap in Central African and Senegal, Rosella in Australia, Zobo drink in Nigeria and Florida cranberry in USA.

Hibiscus Sabdariffa is high in calcium, niacin, riboflavin, vitamin C, iron and have no caffeine. The Hibiscus Sabdariffa is said to lower blood pressure, cure cough and its seeds are prescribed as diuretic to stimulate bile production and to treat fever.

THE HEALTH BENEFITS THAT CAN BE DERIVED FROM HIBISCUS SABDARIFFA AS BOTTLED OR CANNED SOFT DRINKS.

- Hibiscus Sabdariffa as bottled or canned soft drinks can be enjoyed when iced or cold. An iced Hibiscus Sabdariffa is known to satiate thirst quite effectively. It can be recommended as an alternative to artificially made commercial drinks like Coke, Fanta, Sprite, Pepsi Cola and 7up that are marketed to physically active individuals. Hibiscus Sabdariffa as a soft drinks has the ability to cool the body and highly medicinal in the sense that the diuretic properties of hibiscus Sabdariffa helps in the excretion of excess fluids from the body.
- Hibiscus Sabdariffa as bottled or canned soft drinks is an antioxidant. It has properties that prevents the oxidation of low-density lipoproteins, a substance in our blood that if increase beyond normal quantities may cause high blood pressure.
- Regular drinking of hibiscus Sabdariffa as bottled or canned soft drinks can help to prevent too much absorption of carbohydrates and consequently not gain excess weight. The body produces an enzyme known as amylase which functions to break down complex sugar and starch molecules in food. When a person consumes too much artificial commercial rich carbohydrate soft drinks that are full of sugar that individual is mostly going to gain weight. So hibiscus sabdariffa contains a substance that can inhibit the production of amylase.
- Hibiscus Sabdariffa as bottled or canned soft drinks contain ascorbic acid, a form of vitamin C which is one of the essential nutrients needed by the body and is known to have anti-inflammatory and mild anti-bacterial properties. Thus hibiscus Sabdariffa is effectively useful to treat coughs and colds and reducing the discomfort of fevers that may accompany such ailments.
- Hibiscus Sabdariffa as a soft drinks contains the following nutritional substance 1.145g of Protein, 2.61g of fat,12.0g of fiber,1.263mg of calcium, 273.2 mg of phosphorus,8.98mg of iron,0.029 mg of carotene,0.117mg of thiamine, 0.277mg of riboflavin and 3.765mg of niacin. Given all this, it can be said that hibiscus sabdariffa as a bottled or canned soft drinks can serve as an excellent food supplement and an aid to boost the body's immune system.

VARIOUS BRAND OF PRODUCTS IN WHICH HIBISCUS SABDARIFFA PLANTS CAN BE MIXED WITH TO GIVE CUSTOMER S SATISFACTION

(1) Zobo tonic drinks (A pure tonic drink from hibiscus sabdariffa plant).The name zobo is originated

from Nigeria.

(2) Sabdariffa Ginger drinks (A combination of hibiscus sabdariffa plant with ginger to give customers that unique sensational feeling and taste).

(3) Sabdariffa pineapple drinks(A combination of hibiscus Sabdariffa plant with pineapple to give customer a unique flavor taste)

(4) Sabdariffa apple drinks (A blended combination of Hibiscus Sabdariffa with apple to spice up the day).

Note that carbon dioxides can be infused into these drinks before it is being corked or sealed in the factory in order to serve as preservatives.

THE ESSENCE OF ESTABLISHING HIBISCUS SABDARIFFA SOFT DRINKS BOTTLING COMPANY IN FORT MYER CITY.

The essence of establishing hibiscus sabdariffa soft drinks bottling company is to create jobs for thousands of people in Fort Myer city. The hibiscus sabdariffa soft drinks can spread just like coca cola bottling company having branches in developed, developing and under developed countries of the world. This will create jobs for the people and help to reduce crime rate as a result of unemployment. I would suggest that the headquarter of this bottling company should be in Fort Myer City of United State of America.

In addition, the establishment of hibiscus sabdariffa soft drinks will promote the economy of Fort Myer city because they are producing. It will further enhance the currencies of America as the currencies will do well in the stock exchange market.

Most importantly, it will promote industrialization and establishment of basic and social amenities in all the areas where hibiscus sabdariffa soft drinks bottling company is being established.

Furthermore, the establishment of hibiscus sabdariffa soft drinks bottling company shall help to solve the problem of poverty among the poor as people can venture into cultivation of hibiscus sabdariffa plants and sell it to the soft drinks bottling company being put in place at Fort Myer City. Also, the residue of hibiscus sabdariffa plants can be dried and turn to a feeding meal for domestic birds.

Finally, the establishment of hibiscus sabdariffa soft drinks bottling company shall help to promote good health among the people that consume hibiscus sabdariffa soft drinks and prevent people from getting obese.

Mr. Timothy Abegunde {A Certified Safety Officer /B.sc (Hons) Degree Holder in Geography from University of Ilorin, Nigeria.}

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CREATIVE RESEARCH DEVELOPMENT PROJECT TO DR JOHN P. HOLDREN OF WHITE HOUSE OFFICE OF SCIENCE AND TECHNOLOGY POLICY TO GO INTO COLLABORATION WITH NASA IN PROMOTING SAFETY AND SECURITY IN THE AVIATION AND MARITIME SECTOR.

From: "abegunde timoty [REDACTED]"

Date: Sat, July 4, 2015 9:40 pm

To: "pcast@ostp.gov" <pcast@ostp.gov>

CREATIVE RESEARCH DEVELOPMENT PROJECT TO DR JOHN P. HOLDREN OF WHITE HOUSE OFFICE OF SCIENCE AND TECHNOLOGY POLICY TO GO INTO COLLABORATION WITH NASA IN PROMOTING SAFETY AND SECURITY IN THE AVIATION AND MARITIME SECTOR.

I shall be glad if the White House Office of Science and Technology can go into collaboration with NASA to develop a monitoring outer space satellite to monitor the movement and location of airplanes and ships traveling within the earth space. All what White House Office of Science and Technology and NASA need to do is to mandate all airline companies and ships/cargo owners to fix a fire/water proof enclosed radar device developed by NASA in their planes and ships to connect them with the monitoring outer space satellite? The monitoring outer space satellite will monitor the movement and location of planes and ships as they move. Likewise, the fire/water proof enclosed radar device developed by NASA install in planes and ships will send signal and information data to the outer space satellite about the plane or the ship location.

Finally, the essence of this project is to locate where about planes and ships when there is a disaster, crash or ship wreck.

Mr. Timothy Abegunde { A Certified Safety Officer and a B.sc (Hons) Degree Holder in Geography from University of Ilorin, Nigeria. }

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