**Nanotechnology is the lynchpin to global economic growth – Mexico lacks a national plan – this risks dangerous nanotech and loss of competitiveness**

**Kay, Prof. Public Policy – Georgia Tech, and Shapira, Research @ University of Manchester, 2009, [**Luciano Kay1 and Philip Shapira2, 1School of Public Policy, Georgia Institute of Technology, 2Manchester Institute of Innovation Research, Manchester Business School, University of Manchester, UK, Journal of Nanoparticle Research, J Nanopart Res. 2009 February; 11(2): 259–278., Published online 2008 September 18. doi: 10.1007/s11051-008-9503-z, This research was undertaken in association with the Center for Nanotechnology in Society at Arizona State University (CNS-ASU) sponsored by the National Science Foundation (Award No. 0531194). <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2988220/?report=classic>]

Through the manipulation of molecular-sized materials

in the country (Kraul 2003; Malsch 2004).

#### Unfortunately, Mexican nanotechnology development is uniquely disarticulated and lacks regulation –

Delgado-Ramos, June 2013****(GIAN CARLO DELGADO-RAMOS, Researcher Ciudad Universitaria CEIICH-UNAM, Torre II de Humanidade, †Full-time researcher within the program titled “The World in the 21st Century" of the Center on Interdisciplinary Research in Sciences and Humanities of the National Autonomous University of Mexico Int. J. Innovation Technol. Management 2013.10. Downloaded from www.worldscientific.com by International Journal of Innovation and Technology Management Vol. 10, No. 2 (2013))

2.1. The state of the Mexican

and in the Mexican Oil Institute (Instituto Mexicano del Petro\_leo \_ IMP).

#### Advantage 2 is Competitiveness

Europe is offering Mexico long-term nanotech contracts – this will collapse US regional competitiveness

Foladori et al 2011 (Guillermo Foladori, PhD in economics and professor of Development Studies at the Autonomous University of Zacetas, Edgar Zayago is a PhD in Development studies with a Masters in International Development Studies – full professor in the development studies academic unit at UAZ, Richard Appelbaum is the MacArthur Chair in Global and International Studies and Sociology at UC Santa Barbara – PhD from the Univ of Chicago, Rachel Parker is a former research fellow at the Center for Nanotechnology in Society, 8 december 2011, "Mexico-U.S. Scientific Collaboration in Nanotechnology", <http://web.ebscohost.com/ehost/pdfviewer/pdfviewer?sid=f7be39c7-9713-4687-918b-17465e3babae%40sessionmgr104&vid=2&hid=127>)

Among the various kinds

relative to those with European countries.

**Now is key – Mexico economy tanking because of perception of US pullout of markets**

**O’Boyle and Alper, Sept 6, 2013 [**By Michael O'Boyle and Alexandra Alper, <http://www.reuters.com/article/2013/09/06/mexico-economy-rate-idUSL2N0H20U220130906>, access 9/19/13]

MEXICO CITY, Sept 6 (Reuters) - Mexico's central

accompanying the decision.

#### Mexico’s economic cooperation is critical to the US economy – shift to EU causes decline of US economy and competitiveness

O’Neal ’13 [2013, Shannon K. O’Neil is a senior fellow for Latin America Studies at the [Council on Foreign Relations](http://en.wikipedia.org/wiki/Council_on_Foreign_Relations) (CFR) a nonpartisan foreign-policy think tank and membership organization, “Two Nations Indivisible”, it’s a book]

The Binational Road Forward

border before hitting the showroom down south

#### Competitiveness checks war

Baru, ‘9 [March 2009, Sanjaya Barus is visiting Professor at the Lee Kuan Yew School of Public Policy in Singapore Geopolitical Implications of the Current Global Financial Crisis, Strategic Analysis, Volume 33, Issue 2 March 2009, pages 163 – 168]

Hence, economic policies

so once again in today's America remains to be seen.

**Mexico key to military development of nano**

**Lau and Foladori, 2007 [**Guillermo Foladori (Ph. D, Econ. UNAM, Mxico) is a Professor-researcher in Development Studies at the Autonomous University of Zacatecas.

Edgar Záyago Lau. PhD Candidate in Development Studies, Universidad Autónoma de Zacatecas, Mexico

Citation: 4 Nanotech. L. & Bus. 213 2007, 4NanotechLBus213.pdf, access9/12/13]

n April 2004, the Navy and the U.S. Air

according the Mansfield amendment of 1973?40

#### Hegemony prevents multiple nuclear conflicts

Brooks, Ikenberry, and Wohlforth ’13 (Stephen, Associate Professor of Government at Dartmouth College, John Ikenberry is the Albert G. Milbank Professor of Politics and International Affairs at Princeton University in the Department of Politics and the Woodrow Wilson School of Public and International Affairs, William C. Wohlforth is the Daniel Webster Professor in the Department of Government at Dartmouth College “Don’t Come Home America: The Case Against Retrenchment,” International Security, Vol. 37, No. 3 (Winter 2012/13), pp. 7–51)

A core premise of deep engagement

of potential rivals is by many measures growing rather than shrinking. 85

#### Nanotech Competitiveness is key to US economy –

Vickers 2011 (July 14 2011, Hannah Vickers is a Correspondent @ Medill News Service, "U.S. may lose nanotechnology lead, Congress warned", <http://www.marketwatch.com/story/us-may-lose-nanotechnology-lead-congress-warned-2011-07-14?reflink=MW\_news\_stmp>)

While America has been at the

environment,” Mirkin said.

Broad studies prove economic decline causes war

ROYAL 10 Director of Cooperative Threat Reduction at the U.S. Department of Defense

[Jedediah Royal, 2010, Economic Integration, Economic Signaling and the Problem of Economic Crises, in Economics of War and Peace: Economic, Legal and Political Perspectives, ed. Goldsmith and Brauer, p. 213-215]

Less intuitive is how

debate and deserves more attention.

#### Advantage 1 is environmental catastrophe –

#### Lack of Mexican regulation and oversight risks massive environmental contamination by nanotechnology that will spread globally –

Delgado-Ramos, June 2013****(GIAN CARLO DELGADO-RAMOS, Researcher Ciudad Universitaria CEIICH-UNAM, Torre II de Humanidade, †Full-time researcher within the program titled “The World in the 21st Century" of the Center on Interdisciplinary Research in Sciences and Humanities of the National Autonomous University of Mexico Int. J. Innovation Technol. Management 2013.10. Downloaded from www.worldscientific.com by International Journal of Innovation and Technology Management Vol. 10, No. 2 (2013))

The properties of these nanomaterials

economic-political and social terms.

#### Scenario 1 is soil contamination

#### Rampant unregulated nanotechnology destroys soil viability – bacteria and plant contamination –

Thul et al 2013 (Febuary 2013, Sanjog T Thul, Environmental Biotechnology Division, CSIR-National Environmental Engineering Research Institute, Bijay Sarangi, Ram Pandey, "Nanotechnology in Agroecosystem: Implications on Plant Productivity and its Soil Environment", <http://www.scitechnol.com/2325-9655/2325-9655-2-101.php>)

Impact on soil microbial env

consequences of their accumulation in soil and microbes.

#### Nanotech kills crucial river bacteria, which is the base of the food chain.

San Francisco Chronicle, 2005, [Nanotechnology may hold risks, scientists warn,” http://www.sfgate.com/cgi-bin/article.cgi?file=/c/a/2005/10/20/MNGREFB1S71.DTL//cc]

The U.S. government should spend

U.S. National Academy of Sciences and the University of Texas.

#### Extinction.

Horne & McDermott 01 – Agricultural Economists [James E. & Maura, The Next Green Revolution: Essential Steps to a Healthy, Sustainable Agriculture, pg. 69]

Topsoil is crucial to agriculture

of a threat to life on the planet than any of these scenarios

#### Scenario 2 is nanotoxins

#### Mexico is exporting nano-coated agriculture to the US – risking massive health problems

Roslin, 2012(Aug 11, Freelance Journalist,BYLINE: ALEX ROSLIN, FREELANCE, Gazette (Montreal),

SECTION: SATURDAY EXTRA; Pg. B1, p.lexis(access8/27/13)

Health and fitness products

among children in Canada (which has some of the world's highest rates), the U.S. and Europe in the past 10 to 20 years.

#### Nanoparticles destroy immune response mechanisms and cause diseases – size and motility –

Royal Society 2004(The Society acts as a scientific advisor to the British government (receives parliamentary funding). The Society acts as the UK's Academy of Sciences. There are currently 1,314 Fellows, "Nanoscience and nanotechnologies:

opportunities and uncertainties", <http://www.nanotec.org.uk/report/Nano%20report%202004%20fin.pdf>)

17 The most significant finding from research into air pollution particles for the hazard of nanoparticles is that cells and organs may demonstrate toxic responses

membrane with the possibility of interfering with important cell functions such as motility and ability to remove bacteria (Renwick et al 2001).

#### Extinction.

Ryan 97[Frank, M.D., 1997, “Virus X”, p. 366]

How might the human race appear

a pandemic virus cause the extinction of the human species?

#### Thus, the plan: The United States federal government should substantially increase its long term nanotechnology economic engagement toward Mexico.

#### US support is key to Mexican national plan – plan sends signal of long term commitment and allows for regulation –

Delgado-Ramos, June 2013****(GIAN CARLO DELGADO-RAMOS, Researcher Ciudad Universitaria CEIICH-UNAM, Torre II de Humanidade, †Full-time researcher within the program titled “The World in the 21st Century" of the Center on Interdisciplinary Research in Sciences and Humanities of the National Autonomous University of Mexico Int. J. Innovation Technol. Management 2013.10. Downloaded from www.worldscientific.com by International Journal of Innovation and Technology Management Vol. 10, No. 2 (2013))

In 2006, CONACYT outlined the creation of two

Brazil, where the percentage is 90.5%.

**And, accessing Mexican scientists in the US is key to rebuilding Mexico – plan sends a global signal that boosts US competitiveness**

**Newland and Tanaka, Migration Policy Institute, 2010 [**Mobilizing Diaspora Entrepreneurship for DevelopmentbyKathleen Newland and Hiroyuki Tanaka Migration Policy Institute**,** October 2010**,** DiasporaEntrepreneurship-MPI USAID.pdf, access8/30/13]

Networking organizations are those that promote diaspora

that could provide outsourcing services.

#### Finally, plan transitions Mexico into inevitable global marketplace of nano by democratizing research and ensuring effective oversight

Delgado-Ramos, June 2013****(GIAN CARLO DELGADO-RAMOS, Researcher Ciudad Universitaria CEIICH-UNAM, Torre II de Humanidade, †Full-time researcher within the program titled “The World in the 21st Century" of the Center on Interdisciplinary Research in Sciences and Humanities of the National Autonomous University of Mexico Int. J. Innovation Technol. Management 2013.10. Downloaded from www.worldscientific.com by International Journal of Innovation and Technology Management Vol. 10, No. 2 (2013))

The capacity to manipulate matter at the

ahead of Japan (although not in the sphere of nanopatents) [Delgado-Ramos (2008a)].