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### Contention 1: China

#### China is hurting Mexican manufacturing now - the plan is key to revitalizing the industry and relations

Gallagher and Dussel 14- Kevin, Professor of International Relations at Boston University, Co-director of the Global Economic Governance Initiative, Enrique, Professor at the National Autonomous University of Mexico, Director of the Center for China-Mexico Studies (“How China crashed the Nafta party”, January 2, 2014 http://www.theguardian.com/global-development/poverty-matters/2014/jan/02/china-crashed-nafta-party-free-trade\\CLans

According to western tradition, the gift for the 20th anniversary of a union is china. But, two decades on from the trade nuptials enshrined in the the North American Free Trade Agreement (Nafta), China is the uninvited guest that has walked away with many of the gifts. In 1993, pro-Nafta Washington thinktanks, such as the Peterson Institute for International Economics, went so far as to say that the agreement would lead to a trade surplus with Mexico for the US, while also providing huge benefits for the Mexican economy. The US had a trade surplus with Mexico in 1994, but since 1995 the US has had an annual trade deficit with Mexico. On the Mexican side, GNI per capita economic growth is now barely one percentage point higher than when Nafta came into force. What has happened since then? Nafta has had at least two phases. In the first (1994-2000) it increased trade, investments, productivity and overall integration, with positive effects in employment and production in several export-oriented sectors in Mexico. In the second phase since 2000, however, Nafta turned sour. Its negotiators in the early 1990s did not anticipate the rise of Asia and particularly of China. Looking back, our research shows that China has significantly penetrated many of the new markets opened by Nafta. In a paper published by the Economic Commission for Latin America and the Caribbean, we document the extent to which Chinese products have taken away market share in the US, and how China has begun to take Mexican markets from the US as well. From 1994 to 2001, Mexico had a honeymoon with the US. No other country enjoyed the same proximity and trade preferences. Although trade increased significantly between the two countries, it failed to translate into per capita income growth and rising employment and wages in Mexico. The honeymoon ended in 2001 when China entered the World Trade Organisation and began to enjoy similar access to the US market. We find that by 2009, 84% of Mexico's manufacturing exports to the US were under threat from China. By threat we mean sectors where China is gaining market share and Mexico is losing it. We also find that 96% of US exports to Mexico are under threat from China. In 2000, the US supplied Mexico with 60.8% of its office machine and computer imports and 70% of the peripheral parts for those machines. Ten years later, the US held only 10% of the Mexican import market in each sector. By contrast, China held 13% of the office machine import market and 5% of the parts market in Mexico in 2000, and, nine years later, it had 48% and 58% of those markets respectively. Simple economics would lead one to think this would be a benefit for Mexico – as the inputs for its electronic industry decreased because imports from China are cheaper than from the US. This should lead to productivity gains and more exports to the States. China and Mexico supplied the US about 5% of the US computer market in 2000; by 2009 China had more than half that market and Mexico did not budge. We performed in-depth case studies alongside this statistical work that further confirm our findings. The yarn-textile-garment chain – similar to furniture, toys and most of Mexico's manufacturing sector – is symbolic in losing more than 50% of its employment since 2000. The US has become an additional loser, since it is the major supplier of Mexican exports. The automobile parts and assembly chain is a big exception in the competition with China, in the US market and in Mexico. Since the beginning of Nafta, Mexico's exports in the US have strengthened, with levels above 30%, while China's share has remained relatively low, mainly for domestic reasons: China's consumption in the auto sector has been dynamic and above its production, in other words the potential for exports has been low. This, however, will change as China's auto companies follow the lead set by other Chinese global multinationals. This is the hangover that will be felt long after the 20th anniversary party. The only remedy will be couples' therapy. From Mexico's vantage point the "Asia pivot" is seen as cheating on a partner. The region needs to revitalise its relationship: it is time to start a conversation about collective financing mechanisms, exchange-rate co-ordination, and strategic sectors for the Nafta region so it can negotiate and see itself as a larger block. That would give us something to celebrate.

#### Manufacturing offshoring now but investing in manufacturing is key to stop the trend and securing continual investment in North America

Minter 4/11- Steve, Writer for IndustryWeek, News Cite specializing in the advancement of the business of manufacturing, Citing Willy Shih, Harvard Business School Professor (“Manufacturing Innovation Bill Advances in Senate” http://www.industryweek.com/competitiveness/professor-shih-gives-manufacturing-renaissance-c?page=1\\CLans)

Willy Shih is still worried. Five years ago, the Harvard Business School professor and his colleague Gary Pisano wrote that “restoring the ability of enterprises to develop and manufacture high-technology products in America --is the only way the country can hope to pay down its enormous deficits and maintain, let alone raise, its citizens’ standard of living.” But when IndustryWeek asked Shih to assign a grade to our nation’s efforts to reverse the impact of decades of manufacturing offshoring and lost production capability, he answered, “C-.” Shih certainly isn’t all doom and gloom. He says there is much greater recognition of the problem now in Washington and among manufacturers than in 2009 when he and Pisano wrote “Restoring American Competitiveness” for the Harvard Business Review. “That’s very important progress,” he notes. “Until you recognize a problem, you don’t have much chance of addressing it.” He points to the promise by Walmart to source more merchandise from U.S. manufacturers as a positive sign. Walmart has pledged to spend $250 billion on U.S. products over the next 10 years. But Shih remains concerned that much of the recent improvement in manufacturing has not come from policy changes designed to make the U.S. a more attractive location for manufacturing but from changes in the economic environment that have made competitors less attractive. For example, wage inflation in China and wage stagnation in the U.S. has taken away some of the benefit of labor arbitrage. Another factor, he says, is the rising cost of transportation for manufacturers which has driven a transition from air to ocean freight and increased the amount of inventory in supply chain pipelines stretching from Asia to the U.S. That is causing some companies to bring manufacturing back to the U.S. or Mexico to serve the domestic market. Those trends have contributed to auto manufacturers such as Honda, BMW and Daimler increasing their footprint in the U.S. Manufacturing also has benefitted from the energy boom in the U.S. caused by fracking, turning the nation from an energy debtor to a leading oil and natural gas producer, and making the cost of energy much lower than for U.S. competitors in Japan and Europe. “We recall [in 2007] when GE sold off their plastics and engineered materials group to SABIC because we didn’t have the oil here and that is such a big component of the cost,” said Shih. Now, major chemical projects are underway or planned in the U.S. because it has become a low-cost source for feedstocks. While all this is consequential, says Shih, it has been a case of overseas locations becoming less attractive. He cautions, “Those negatives can turn relatively quickly.” Shih said some industries such as consumer electronics are likely gone from the U.S. He said the country needs to focus on industries that could be at risk. “We are still very strong in aerospace but we are coming up on a wave of retirements of a generation of aerospace workers,” he said. “Do we have the talent in the pipeline to maintain our strength there?” Shih is also concerned about the biotechnology manufacturing sector. There is a mentality among venture capital firms, he said, not to make these products but to have companies “get through phase 1 and phase 2 trials, monetize it, sell the company and let somebody offshore do it. That is not good for the long term.” Years of offshoring and outsourcing badly damaged the “industrial commons” in the U.S., Shih and Pisano warned in their HBR article and then in their 2012 book, “Producing Prosperity: Why America Needs a Manufacturing Renaissance.” The commons are the networks of suppliers of a vast range of products from production tooling to specialized components, the skilled workers, the engineers and academic researchers who all contribute to a vital manufacturing sector. “The idea of a commons transcends a cluster. The commons is the core capabilities in the supplier base like metalworking - castings, forgings, the ability to produce microstructure alloys,” Shih explains. “Some of them seem very ordinary but they are used by multiple industries.” When companies begin to outsource production, Shih and Pisano observed, it creates a snowball effect that eventually can cripple a manufacturing sector. “When a major player in an industry outsources an activity, cuts funding for long-term research and gains a short-term cost advantage, competitive pressure often forces rivals to follow suit,” they wrote in their HBR article. “As potential employment opportunities shrink, experienced people change jobs, moving out of the region, and students shy away from entering the field. Eventually, the commons loses a critical mass of work, skills and scientific knowledge and can no longer support providers of upstream and downstream activities…” Shih and Pisano argued that this outsourcing did more than reduce the U.S.’s ability to competitively manufacture advanced products such as laptop computers or advanced rechargeable batteries. They said it also damaged the nation’s capacity for developing new products and technologies because it failed to recognize the critical role of production in innovation. In many industries, Shih explained, important improvements in products come after the first prototype is developed. The interaction between designers and production personnel can help improve the manufacturability of the product as well as improve quality and lower cost. “It’s not just that the parts get cheaper,” said Shih. “It’s that I learn to do it better or I simplify the parts or get rid of parts that aren’t necessary. All of that requires a close interaction between the people who are building it and the people who designed the product.” Shih said as a manufacturer for 28 years, he appreciated the value of close ties between engineering and development, and the production floor. He spent the 1980s at IBM, where he recalls his manufacturing director being proud that the engineers were situated across the street from the manufacturing site in one case and just off the production floor at another. The value of this close linkage has been understood for decades, Shih said, with the Toyota Production System serving as an important lesson in its value. The counterargument has been that issues of distance could be overcome through telecommunications and flying people to China and other manufacturing sites. Shih said a generational gap has developed where manufacturing becomes a matter of purchasing components rather than making them. “There is very much a belief among many managers that if I design it, someone else can make it,” said Shih. “That fails to value how much of the overall product innovation actually happens in production.” Shih and Pisano have called for both government and industry to increase support of basic and applied research. Shih noted that government support of the human genome project, for example, had “catapulted the U.S. to world leadership in biotech.” He said the Obama administration’s efforts to develop a network of manufacturing innovation centers are on the right track. “I like what they are doing in terms of recognizing where the future is going such as with additive manufacturing,” Shih said, adding that the administration was taking a “thoughtful approach” to identifying important emerging technologies and supporting early stage research. He noted that companies shy away from such investments because the risk they won’t capture a return on their investment is too high. He said he agreed with many economists that the government should invest in these “long-term, R&D public goods” and then let the market commercialize technologies and determine winners and losers. But Shih said Washington has failed to tackle major issues such as taxes and regulations which are inhibiting the growth of manufacturing in the U.S.

#### Foreign investment is key to evolve factories technologically—

Rapiey ‘11 Stanley Joseph Rapiey, Department of Defense Civilian “Maquiladoras and National Security: Design Theory as a Guide.” 25, October, 2011

A third challenge associated with this system concerns the lack of complexity of the production performed by the maquiladoras. The vast majority of maquiladoras conduct simple assembly, so the factories involved are tooled for basic production, and the employees only have basic skills. This drastically limits the ability of both the factories and their employees to adjust to new forms of production as the maquiladoras fall to foreign competitors. This industry is so tightly tied to specific customers in the U.S. that a transition to some other form of production would require massive changes in structure and labor. The Mexican government understands this as a problem and seeks to drive the evolution of so-called “first generation” maquiladoras to second and third generation models. The first generation maquiladoras are the least complex and simply assemble raw materials. Foreign investment brings with it technology, and, with this technology, the maquiladoras evolve into more complex factories that eventually focus less on labor intensity and more on more sophisticated products, R&D and even product design.39 Unfortunately, there are few examples of this trend, and many critics complain that the entire concept of the maquiladora “traps developing countries into the deadend role of providing cheap labor for low value-added assembly operations.”40

#### Collapse threatens national security—altering engagement policy is critical to sustain it

Rapiey ‘11 Stanley Joseph Rapiey, Department of Defense Civilian “Maquiladoras and National Security: Design Theory as a Guide.” 25, October, 2011 [MG]

The Mexican maquiladora industry is rapidly losing market share to Asian competitors that dramatically undercut them in terms of labor cost. The decline of these assembly-for-export factories will result in instability along the U.S.-Mexico border and will prove to be a serious national security issue for the United States. This paper leverages Design theory to frame the problems surrounding Mexico’s maquiladora industry in order to develop an understanding of this complex adaptive system. It examines the wide range of actors involved in the system, focusing on their goals, motivations and conflicting tendencies. Finally, the paper recommends courses of action for U.S. and Mexican leaders that will mitigate the resulting instability in the Mexican northern border states. The economic stability of Mexico will always be a national security priority for the United States. The two nations share a border of nearly 2,000 miles, and trade between them is worth billions of dollars. To take advantage of this relationship, the Mexican government created a series of customs and trade policies specifically designed to enhance its economic ties to the U.S. For decades, such policies greatly benefited Mexico’s maquiladoras, factories that import raw materials, rapidly combine them into finished products, and export them to the American market. Unfortunately for Mexico, the strong advantages in low-cost labor and speedy delivery are gradually being eroded by similar programs in China and Southeast Asia. As U.S. companies look to Asia for more profitable business relationships, the Mexican government has done little to alter its customs and trade policies in response. A severe economic blow to the maquiladoras along the U.S. border would have dramatic effects on the stability of the area, affecting both Mexican and American national security interests. The governments of Mexico and the United States should therefore take preemptive measures to mitigate the instability that is arising as the maquiladoras lose their viability under new global economic pressures. These measures include altering customs and trade policies, providing economic incentives in order to transform the Mexican export industry, and creating labor opportunities for Mexicans within the United States. In order to support this thesis, the following paper will leverage Design Theory to examine the current situation in the Mexican maquiladora industry, identify problems in terms of potential impacts to U.S. national security, and propose possible courses of action for both American and Mexican decision-makers.

#### This threatens the entire relationship and causes industries to shift toward China—

Rapiey ‘11 Stanley Joseph Rapiey, Department of Defense Civilian “Maquiladoras and National Security: Design Theory as a Guide.” 25, October, 2011

The Problem Frame highlights the issues that must be addressed in order to transform current conditions into the desired end state.25 In this case, the desired end state is a more stable economy in the northern Mexican states, free from the current stress brought about by the decline in the maquiladora industry. Since 60% of Mexican maquiladoras operate in the border states, this end state is a key factor in the stability of the border area for both the United States and Mexico.26 Additionally, 80% of all Mexican exports are to the United States, making this relationship extremely important.27 It is in the best interest of these nations to take action to reach this end state. In order to develop future courses of action that create conditions conducive for the desired end state, the current challenges that currently exist in this system must be examined. The three major challenges to reaching the desired end state are connected to flaws in the Mexican export industry, specifically its inability to respond to global competition, its overreliance on the American market, and its lack of complexity. A fourth challenge is connected to the free flow of labor in this region. These challenges are obstacles in the path to a stable and secure northern Mexico. First of all, Mexico’s response to increased competition for its maquiladoras has been completely inadequate. Over the past decade, China has presented an attractive alternative to Mexican maquiladoras in terms of labor costs. In 2008, Chinese hourly manufacturing wages were estimated nearly 75% cheaper than those in Mexico.28 For over a decade, Chinese factories have been able to assemble goods of equal quality as the maquiladoras, but now they can provide greater quality control and better physical infrastructure.29 As drug violence continues in Mexico, security has become a greater decision point for businesses as well, and many are concerned that investing in Mexico is a risk.30 Mexico’s two main responses to this situation have been extremely inadequate and have not improved the overall situation. The Mexican government’s first response was to escalate anti-Chinese rhetoric, even working to delay China’s entry into the World Trade Organization.31 This merely delayed the inevitable and resolved nothing. Later, driven by the need to compete with China, Mexican factories laid off personnel and cut worker salaries in order to reduce labor costs.32 Considering the weak global economy, this unfortunate move added pressure to an already-stressed workforce. The resultant increases in unemployment and underemployment, combined with reduced salaries, will increase instability in the region as people are driven to crime, either as victims or participants.33

#### US reliance on Chinese technology for military purposes undermines its capability and allows for Chinese espionage

Snyder 5/29/13 – (Michael, “Why The Next War With China Could Go Very Badly For The United States”, http://www.infowars.com/why-the-next-war-with-china-could-go-very-badly-for-the-united-states/)//javi

Another way that China is gaining a strategic advantage over the U.S. is by getting the U.S. military to become increasingly dependent upon them. According to Forbes, now the U.S. military is even leasing a Chinese satellite for communications purposes… American dependence on China grows by the day. The latestnews is that the United States has been reduced to leasing a Chinese satellite to handle communications with U.S. military bases in Africa. Surprising, isn’t it? The nation that launched the world’s first communications satellite (I remember it well – it was called Telstar) has so lost its manufacturing mojo that it has to rely on its most formidable military adversary to provide the hardware for some of its most sensitive communications. This at a time when underlying unemployment rates among U.S. manufacturing workers remain at near-depression levels. Isn’t that crazy? And a recent Senate report discovered that many of our most advanced weapons systems are absolutely riddled with counterfeit Chinese parts… A recent Senate report, titled Inquiry Into Counterfeit Electronic Parts In The Department Of Defense Supply Chain, “uncovered overwhelming evidence of large numbers of counterfeit parts making their way into critical defense systems.” The investigation found 1,800 cases of counterfeit electronic parts involving over one million suspect parts in 2009-10 alone, thereby exposing “a defense supply chain that relies on hundreds of unveiled independent distributors to supply electronic parts for some of our most sensitive systems.” The report concluded, among other things, that China is the “dominant source” of counterfeit products that enter the DoD supply chain, that the Chinese government does little to stop it and that the DoD doesn’t know the “scope and impact” of these parts on critical defense systems. Who in the world would be stupid enough to allow one of their greatest strategic enemies to supply large numbers of parts for key weapons systems? Apparently we are that stupid. Things are particularly bad when it comes to semiconductors… Senator John McCain commented: “We can’t tolerate the risk of a ballistic missile interceptor failing to hit its target, a helicopter pilot unable to fire his missiles, or any other mission failure because of a counterfeit part.” Calling the issue “a ticking time bomb,” Brian Toohey, president of the Semiconductor Industry Association, commented: “The catastrophic failure risk inherently found in counterfeit semiconductors places our citizens and military personnel in unreasonable peril.” It would be bad enough if we just had to worry about counterfeit parts failing. But what if China has a way to shut some of those parts down in the event of a conflict? What if some of those parts contain “Trojan Horse” computer chips or malware? That may sound crazy, but unfortunately Trojan Horse chips can be extremely difficult to detect. The following is from a recent Forbes article… As the Defense Science Board pointed out, Trojan Horse circuitry is almost impossible to detect even with the most rigorous analysis. This is particularly so if a saboteur can accomplish matching subversions in both software and relevant hardware.

#### Chinese espionage is the biggest internal link to Chinese military modernization

U.S.-China ESRC 7 – U.S.-China Economic and Security Review Commission[Report to Congress-The Commission was made up of members of the 110th Congress, 1st Session, November, <http://www.uscc.gov/annual_report/2007/report_to_congress.pdf>  
The pace and success of China’s military modernization continue to exceed U.S. government estimates. Indeed, on occasion the U.S. defense and intelligence communities have been taken by surprise, 7 as in the case of the launching of the Jin class submarine by the navy of the People’s Liberation Army. China’s defense industry is producing new generations of weapon platforms with impressive speed and quality, and these advancements are due in part to the highly effective manner in which Chinese defense companies are integrating commercial technologies into military systems. Additionally, industrial espionage provides Chinese companies an added source of new technology without the necessity of investing time or money to perform research. Chinese espionage in the United States, which now comprises the single greatest threat to U.S. technology, is straining the U.S. counterintelligence establishment. This illicit activity significantly contributes to China’s military modernization and acquisition of new capabilities.

#### US can no longer win the war due to Chinese tech advancement through espionage

Snyder 5/29/13 – (Michael, “Why The Next War With China Could Go Very Badly For The United States”, http://www.infowars.com/why-the-next-war-with-china-could-go-very-badly-for-the-united-states/)//javi

Most Americans assume that the U.S. military is so vastly superior to everyone else that no other nation would ever dream of fighting a full-scale war against us. Unfortunately, that assumption is dead wrong. In recent years, the once mammoth technological gap between the U.S. military and the Chinese military has been closing at a frightening pace. China has been accomplishing this by brazenly stealing our technology and hacking into our computer systems. The Pentagon and the Obama administration know all about this, but they don’t do anything about it. Perhaps the fact that China owns about a trillion dollars of our national debt has something to do with that. In any event, today China has the largest military in the world and the second largest military budget in the world. They have stolen plans for our most advanced jets, helicopters, ships and missile systems. It is estimated that stealing our technology has saved China about 25 years of research and development. In addition, China is rapidly developing a new generation of strategic weapons that could potentially enable it to actually win a future war against the United States. At one time such a notion would have been unthinkable, but as you will see below, the next war with China could go very badly for the United States.

#### Chinese military modernization causes great power war

Twomey 9, co-directs the Center for Contemporary Conflict and is an assistant professor in the Department of National Security Affairs, both @ the Naval Postgraduate School in Monterey, CA, 9 [Christopher, Arms Control Association, “Chinese-U.S. Strategic Affairs: Dangerous Dynamism, http://www.armscontrol.org/act/2009\_01-02/china\_us\_dangerous\_dynamism#Twomey]

China and the United States are not in a strategic weapons arms race. Nonetheless, their modernization and sizing decisions increasingly are framed with the other in mind. Nuclear weapons are at the core of this interlocking pattern of development. In particular, China is the only permanent member of the UN Security Council expanding its arsenal; it is also enhancing its arsenal. The basic facts of Chinese strategic modernization are well known, if the details remain frustratingly opaque. China is deploying road-mobile, solid-fueled missiles, giving it a heighted degree of security in its second-strike capability. It is beginning to deploy ballistic missile submarines (SSBNs). It is researching a wide range of warhead and delivery systems technologies that will lead to increased accuracy and, more pointedly, increased penetration against ballistic missile defenses. The size of China's deliverable arsenal against the United States will undoubtedly increase beyond the few dozen that it possessed recently.[1] The pace of growth thus far has been moderate, although China has only recently developed reliable, survivable delivery systems. The final endpoint remains mired in opacity and uncertainty, although several score of deliverable warheads seems likely for the near term. These developments on the strategic side are coupled with elements of conventional modernization that impinge on the strategic balance.[2] The relevant issue, however, is not simply an evaluation of the Chinese modernization program, but rather an evaluation of the interaction of that modernization with U.S. capabilities and interests. U.S. capabilities are also changing. Under the provisions of START and SORT, the United States has continued to engage in quantitative reductions of its operational nuclear arsenal. At the same, there is ongoing updating of warhead guidance and fusing systems. Ballistic missile defense systems of a variety of footprints are being deployed. The U.S. SSBN force now leans more toward the Pacific than the Atlantic, reversing the Cold War deployment. Guam's capacity to support heavy bombers and attack submarines has been enhanced. Furthermore, advances in U.S. conventional weaponry have been so substantial that they too promise strategic effects: prompt global strike holds out the promise of a U.S. weapon on target anywhere in the world in less than an hour and B-2s with highly accurate weapons can sustain strategic effects over a campaign. What are the concerns posed by these two programs of dynamic strategic arsenals? Most centrally, the development of the strategic forces detailed above has increasingly assumed an interlocked form. The U.S. revolution in precision guided munitions was followed by an emphasis on mobility in the Chinese missile force. U.S. missile defense systems have clearly spurred an emphasis on countermeasures in China's ICBM force and quantitative buildups in its regional missile arsenals.[3] Beijing's new submarine-based forces further enhance the security of China's second-strike capability in the face of a potential U.S. strike but are likely to lead to increased attention to anti-submarine warfare in the United States. China's recent anti-satellite test provoked a U.S. demonstration of similar capabilities. Such reciprocal responses have the potential to move toward a tightly coupled arms race and certainly have already worsened threat perceptions on each side. The potential for conflict is not simply that of inadvertent escalation; there are conflicts of interests between the two. Heightening threat perceptions in that context greatly complicates diplomacy. Further, the dangers of inadvertent escalation have been exacerbated by some of these moves. Chinese SSBN deployment will stress an untested command-and-control system. Similar dangers in the Cold War were mitigated, although not entirely overcome, over a period of decades of development of personnel and technical solutions. China appears to have few such controls in place today. U.S. deployment of highly accurate nuclear warheads is consistent with a first-strike doctrine and seems sized for threats larger than "rogue" nations. These too would undermine stability in an intense crisis.

#### Recent disputes with China increase the probability of miscalculation – absent force – China will unilaterally intervene in Asia

Max Hastings 1/2/14 [educated at Charterhouse School and University College, Oxford, British journalist, editor, historian and author, “Is World War Three about to start... by accident? Max Hastings asks whether rising tensions between China and Japan could boil over”,http://www.dailymail.co.uk/news/article-2532932/Is-World-War-Three-start-accident-Max-Hastings-asks-rising-tensions-China-Japan-boil-over.html, ML]

If conflict does come, it will be waged with the high-tech weapons of our own time: warplanes manned and unmanned, missiles, cyber-attack weapons and the many instruments of destruction guided from space satellites. But this would not make a great power conflict any less catastrophic. And this is why a shiver will have run through the leaderships of Asia and of the Western powers this week when China's ambassador to London argued that Japan risks 'a serious threat to global peace' by 'rekindling' the bellicose attitude that hastened the expansion of World War II into a global conflict. He even compared Japan today to Lord Voldemort, the arch villain in the Harry Potter novels. This comes just a few weeks after China — with absolutely no warning — declared hundreds of thousands of square miles of airspace above the East China Sea as its own Air Defence Zone. This includes the eight tiny uninhabited pimples, called the Senkaku Islands by Japan and Diaoyu by China. Taiwan also has a claim to the islands — nationalised by Japan from private sellers in 2012, much to the anger of China. The United States responded to this bitter dispute between Tokyo and Beijing by dispatching two USAAF B-52s bombers to overfly the islands, emphasising its commitment to the right of free navigation. Japan's prime minister, Shinzo Abe, declared gravely that China had started 'a whole new game'. His government threatened to shoot down any Chinese drones that appeared over the Senkakus. Beijing responded that this would be an act of war. Nobody, including the Chinese, wants armed conflict. Indeed, an analyst for the International Institute Of Strategic Studies has said that China 'aims to push rather than break limits'. Yet the tensions between Tokyo, Washington and Beijing have been increasing for years. For the moment, China, the U.S. and Japan still maintain courtesies between governments. Most crucially, Beijing holds trillions of dollars of U.S. debt. But many of history's wars have been triggered by miscalculations while nations have been testing each other's strengths. Indeed, there is a profound fear in Washington, in Tokyo, and maybe also in Beijing, that one day something unspeakably ghastly could happen by mistake. Remember that in 1914 before the outbreak of World War I, Britain and Germany were each other's largest trading partners. Professor Peter Dutton, of the U.S. Naval War College, has warned of the growing tensions, saying: 'China's challenge to existing maritime norms is creating hairline fractures in the global order.' This comment followed an authoritative Washington defence guru who said that, whatever short-term bother terror groups such as Al Qaeda might cause, 'in the middle-long term, there will only be one main concern of the U.S. armed forces, and that is China. China is reshaping the military order in Asia, and is doing so at our expense'. China has an ever-growing fleet of missile-armed warships — thought to number around 80, as well as nearly 300 amphibious assault ships — including fast-attack craft specifically designed as 'carrier-killers', to engage the U.S. Navy's behemoths. In response, the huge U.S. Andersen air force base on the Pacific Ocean island of Guam has become host to a £10 billion reinforcement programme. As a result, its hangars now hold B-2 and B-52 bombers, air-to-surface and cruise missiles, Global Hawk drones, F-15 and F-22 fighters, the latter just a 20-minute flight from the Taiwan Strait. Amitai Etzioni, professor of international relations at George Washington University, declares bleakly: 'There are increasing signs that the United States and China are on a collision course.' What is not disputed is that China is determined to assert its new status as a major regional power, while the U.S. is equally bent upon deterring or deflecting Chinese expansionism, and especially aggressiveness. This was the reason behind President Obama's 2010 decision to rebalance American strategic assets towards the Pacific. The American case is as readily made as was the British one, for resisting quite similar German posturing before 1914. Washington's attitude is: 'We and our allies are democracies, while China is an autocracy which denies respect for human rights or international law.' I believe that unless the Washington administration makes plain its determination to support any country (such as Japan) that is threatened with aggression by Beijing, China will go ahead and impose its ruthless will upon the entire Pacific region. As for the contrary view from Beijing itself, China's leaders cherish a profound grievance about the Tokyo government's persistent refusal to confront the reality of Japan's mid-20th century war crimes in Asia. For the Tokyo government asserts that the time has passed for any Japanese apologies or even discussion of its historical record. An example of this defiance is the military museum that is situated next door to Tokyo's Yasakuni shrine, where so many Japanese war criminals' ashes lie and to which many Japanese politicians visit to pay homage. I have been to the place myself, and find it as repugnant as do the Chinese. Which is why they found such offence a few days ago when the Japanese premier arrived there to pay his respects. (Its choice of exhibits is intended to prove that during the middle of the last century, Japan entered China — where at least 15 million people fell victim to its occupation — and other Asian countries in order to 'protect' them from European exploitation.) In the same vein, Japan describes its half-century occupation of Korea as a 'partnership'. The ghastly Thirties massacres committed by the Japanese army at Shanghai and Nanjing are not mentioned. In Japanese school textbooks, the systemic exploitation of 'comfort women' by the Japanese Army is a forbidden subject. Most shockingly, a Japanese minister claimed last year that such victims were 'volunteers'. While it is deemed unforgivable — and even criminal — across most of the world to deny the existence of the Nazi Holocaust of six million Jews, almost the entire Japanese nation denies its own barbarities across Asia. This intransigence helps to explain why South Korea, for instance, recently refused to conclude an intelligence-sharing security agreement with Japan, because public opinion remains so alienated by its former oppressors' lies about the past. For its part, the U.S. is impatient for Japan to abandon the controversial Article 9 of its post-war constitution (imposed by America after the end of World War II), which forces the country to renounce war and restricts its armed forces to a self-defence role. Times have changed and Washington now wants to see the Japanese accept a much larger share of the responsibility for containing China. But more than a few prominent Asians are wagging a warning finger at the Americans, urging: 'Be careful what you wish for.' The truth is that many of Japan's Asian neighbours — not to mention the Chinese — will never trust Tokyo until it comes clean about its dreadful history, as it seems determined not to do. China is a tough, assertive, immature nation in a hurry; the United States is seen in Beijing as a weakly led, declining military power that is vulnerable to pressure On the specific issue of the disputed Senkaku islands, China points out that Tokyo has held them only since the late 19th century, when Japan became an early entrant into the race for an Asian empire. There are economic issues at stake, too. Sovereignty claims are based on a desire to exploit the area's rich resources in fish and hydrocarbons. Above all, though, the tension is based on much bigger ambitions. China argues, just as Germany did before 1914 in respect of Britain's maritime supremacy, that now it is one of the big players in Asia, there is no reason why it should accept America's claims to Pacific hegemony. Why should Beijing tolerate U.S. warships and aircraft conducting close surveillance of the Chinese coast? Such a presence is unjustified in an age of satellites and simply reflects a wish by America to parade its military might at the expense of Chinese dignity. Such arguments have spread to cover debate about freedom of the internet. A Chinese army general recently dismissed American drum-banging about the importance of preserving 'global internet freedom.' He said that Washington was using this as an excuse to preserve its own 'cyber-hegemony'. He added: 'In the information era, seizing and maintaining superiority in cyberspace is more important than was seizing command of the sea and air in World War II'. Even if we British, as American allies, ultimately reject some of these arguments, we should acknowledge that the U.S. often seems clumsy, patronising and over-bearing in its attitude to other nations. For example, the Chinese were enraged recently by the behaviour of U.S. Vice-President Joe Biden. On a supposed goodwill visit to Beijing, he urged a group of Chinese to keep up their protests against denial of human rights. He said they should 'challenge the government'. Biden may have been right, but his action was foolish and insensitive. Such self-righteous moralising is the sort of behaviour that worries Nigel Inkster, a former deputy director of Britain's Secret Intelligence Service, who, earlier this year, spoke bleakly about the relationship between the two countries. He said: 'If it is to avoid becoming the chronicle of a death foretold, both parties will need to demonstrate greater self-awareness than either has yet shown'. A key issue of contention remains human rights. Of course, it is right that the rest of the world presses China to respect international law abroad and human rights at home. Military power, firmness and clarity of purpose are essential tools for addressing China through the years ahead, as it increasingly flexes its muscles. But so, too, is a willingness to recognise that China will not become a liberal democracy any time soon. As this vast country has for centuries been so misused by the Western powers, including Britain, its rise to greatness now deserves applause as well as prudent apprehension. Yet, however careful the U.S. and China may be in managing their future relationship, I fear that it will remain fraught and indeed dangerous. China is a newly rich, increasingly mighty nation, which is bent upon elbowing aside the Americans, in the Pacific region at least, to assert its own claims as a Great Power. This makes it inevitable that there will be rows, confrontations, crises, some involving both nations' armed forces. The peril will persist throughout our lifetimes and the great worry is that a clash such as one over the disputed Senkaku islands will go horribly wrong. Popular nationalism is a growing force in China, just as it is in Japan, and the great challenge for both nations' politicians is to grapple with its excesses. China often speaks of the importance of using restraint — kezhi — in its conduct abroad. But its defence minister has said that although any full-scale war is unlikely, 'we cannot exclude the possibility that, in some local area, unexpected events may occur, or military friction may take place due a to a misfire'. History tells us that nations that create vastly expensive armed forces sooner or later feel an itch to use them. China is a tough, assertive, immature nation in a hurry; the United States is seen in Beijing as a weakly led, declining military power that is vulnerable to pressure. For the moment, Washington knows that it can deploy vaster greater military power than China. It is also morbidly anxious not to be seen to show weakness — hence its decision to dispatch the B-52s over the Senkakus. Ultimately, I want to be hopeful. The world managed to avert war during more than 40 years of armed nuclear confrontation between the Soviet Union and the United States. Maybe it can do so through the 21st century, as China grows ever stronger and America's superiority wanes. But we cannot take peace for granted. The Pacific rim is ever more densely strewn with the toys of war. The risk of some local turf dispute exploding into a great power collision will remain alarmingly real.

### Plan

#### The United States federal government ought to offer financial assistance toward the assembly-for-export industry in Mexico.

### Contention 2: Manufacturing

#### Mexican manufacturing is critical to address challenges facing the U.S. – picks up the slack for U.S. manufacturing

Bañuelos et al 12 (Carlos Guzmán Bofill, Ana María Rivas Llamas, Carlos Casas Guerrero, Juan Ángel Vargas Plata, Juan Carlos Téllez Girón Barrón, Luis Anthony Olivé Hawley, Sebastián Escalante Bañuelos, Natalia Herrero Martínez, Izael Mijangos González, June, http://www.promexico.gob.mx/work/models/promexico/Resource/1985/1/images/Aerospace\_CHIHUAHUA\_ENG.pdf)

In the last decade, Mexico has proven that it has the capabilities and talent in advanced manufacturing to supply the international market of the aerospace industry. The integration of design and advanced manufacturing capabilities on a national level prove that the Mexican industry has included high technology and engineering in its processes. Through the projects identified in this Road Map, which involves the efforts of academia, industry and government, Chihuahua will become the leading A+D cluster in Latin America in precision manufacturing for the high-tech industry and dual-use goods. This exercise identified projects and factors that will promote Chihuahua’s ability to attract future high technology investments for the aerospace and defense sector by as well as creating the capabilities to optimize the sector’s industrial competitiveness in the region, such as: the creation of a talent management platform; reducing dependency on the importation of molds, dyes and tooling in the sector; and making better use of future investments that have been encouraged by Mexico’s acceptance in the WA. Chihuahua has been able to determine the right path to reach its maximum potential and become one of Mexico´s most competitive regions in the aerospace sector with a medium- and long-term vision. The road to success has been forged, and the coming years will be bursting with opportunities and new challenges for Chihuahua.

#### Mexico is key – the US can’t solve

Bañuelos et al 12 (Carlos Guzmán Bofill, Ana María Rivas Llamas, Carlos Casas Guerrero, Juan Ángel Vargas Plata, Juan Carlos Téllez Girón Barrón, Luis Anthony Olivé Hawley, Sebastián Escalante Bañuelos, Natalia Herrero Martínez, Izael Mijangos González, June, http://www.promexico.gob.mx/work/models/promexico/Resource/1985/1/images/Aerospace\_CHIHUAHUA\_ENG.pdf)

The United States our major commercial partner is going through a talent crisis due to a lack of engineering graduates, added to constant cuts in defense spending, which complicates the upkeep of its current abilities to research, develop and produce defense and high-tech dual-use items. Mexico has more engineering graduates per capita than the United States and skilled and engineering labor costs are more competitive in Mexico; the technological sophistication of its manufactured goods is above that of BRIC countries such as India and Brazil. These three factors make Mexico the best answer to the issues that affect the United States. The creation of the SCE and Mexico’s acceptance into the WA have laid the foundation to guarantee national surveillance during the export of restricted and dual-use technologies and goods. According to conservative estimates, the WA will enable the national industry to access a potential high-technology export market of close to an additional 11.3 billion dollars per year, added to the potential creation of between 30 and 40 thousand highly paid jobs in the next five years.7 Chihuahua’s advanced manufacturing vocation (landing gears, fuselages, engines, harnesses and precision machining) make it the ideal destination for projects in the A+D cluster. Furthermore, the Federal Government is in negotiations with the US Department of Defense to develop a regional aerospace and defense manufacturing block focused on Buy NAFTA. This could be completed with the signing of a MoU between the US Department of State and the Ministry of National Defense (SEDENA)

#### Mexican manufacturing key to US aerospace

Mecham 7/16 (Michael is apace writer for Gannett News, California Bureau Chief and correspondent for Congress, Aviation Week, 7/16/13, “Mexico’s Welcome Mat Attracts Aerospace Manufacturers”, <http://www.aviationweek.com/Article.aspx?id=/article-xml/AW_04_01_2013_p44-562383.xml>\)

The aerospace influx has not happened overnight. Its roots date to the mid-1970s when U.S. companies, a mix of multinationals and lower-tier suppliers, began sending basic parts manufacturing and assembly tasks across the border, mostly to border towns like Tijuana and Mexicali but also deeper into the country to cities like Monterrey. Service operations followed, as did company research activities. However, it has been in the past decade that Mexico's aerospace manufacturing growth has mushroomed. Political reform led it to pursue a global free trade agenda vigorously and its 1994 signing of the North American Free Trade Agreement (Nafta) benefitted Mexico greatly. Still, it took about a decade for the aerospace sector to take off. Until 2004, growth was scattered, says Queretaro state Gov. Jose Calzada. Not anymore. “We've seen incredible changes in just the last five years,” he says The boom times are a testament to Mexico's geography, its embrace of free trade and adoption of legal mechanisms that provide a “soft landing” for foreign-owned factories. Local leaders clear red tape and amaze U.S. and European executives at how quickly they can put up factories. A typical response comes from Peter Huij, a senior Fokker Aerostructures executive in Chihuahua, about how quickly the company went from bare earth in May 2011 to a completed 75,000-sq.-ft. factory in November: “It would be impossible in Europe.” Behind all of this is Mexico's Maquiladora factory system for supporting foreign companies, which allows them to control their own destiny, importing raw materials such as aerospace-quality alloys, or wiring and then exporting the finished product tax-free. Foreign manufacturers commonly turn to a large service provider—Intermex and American Industries Group are leaders for the aerospace sector—that lease buildings to their clients and handle their human resources, tax and other business needs under Mexican law. About 80% of the aerospace companies in Mexico use such services. Of the 36 Maquiladoras registered by the Mexican government last year, six were in aerospace, including a GKN Aerospace plant in Mexicali, Latecoere in Hermosillo, coatings specialist Ellison Surface Technologies and Rolls-Royce turbine supplier JJ Churchill in Guaymas and a fourth division for Zodiac in Chihuahua. Under the Maquiladora system, Mexico allows resident foreign companies to control 100% of their businesses. They do not face the “local partner” rules so common elsewhere that limit foreigners to a maximum 49% share “They make it easy for you to do business down here,” says John Gardner, strategic program manager at Kaman Aerostructures, another newcomer in Chihuahua. “They provide a 'soft landing,' to get a quick startup—a good startup. We got a lot of support up front and afterward.”

#### Aerospace key to hegemony

Lexington Institute 13

[Public policy think tank, “America Is A Superpower Because It Is An Air Power”, 1/24, <http://www.defense-aerospace.com/article-view/release/142016/air-power-makes-america-a-superpower.html>] \*we don’t defend the gendered discourse of this evidence

There is no question that the United States has the best military in the world. The United States is unique in its ability to project military power to multiple regions of the world simultaneously, conduct multiple major combined and joint operations at a time and both defend the homeland and provide ongoing support to civil agencies. Europe, which spends about sixty percent of the U.S. defense budget and actually has more man and woman in uniform, was unable without significant U.S. support to conduct a single, modest campaign in Libya. The U.S. military continues to set the world standard with respect to most major military systems: nuclear-powered aircraft carriers, large deck amphibious warfare ships, nuclear attack submarines, strategic bombers, fifth-generation fighters, air and missile defenses, tanks and armored fighting vehicles and space and airborne ISR. Even though we don’t talk much about it the military’s cyber warfare capabilities are truly impressive. While the U.S. has the best ground, naval and amphibious forces in the world, one thing makes it a 21st Century superpower: its dominance as an air power. The United States alone is capable of deploying its aerial assets anywhere in the world. U.S. air power can hold at risk any target set in any country and can do so from multiple directions. The U.S. Air Force is the only one capable of delivering specially-designed conventional bombs large enough to destroy deeply buried and hardened structures.  Over the past two decades, the U.S. military has repeatedly demonstrated that it can destroy an adversary’s air force and air defenses in a matter of weeks. After that, hostile ground units were toast. The ability to rapidly seize control of the air means that no soldier has died in an air attack since 1953. Over a decade of wars, American air power from the land and sea provided continual responsive fire support for tactical units on the ground. Other nations have fighters and bombers, although America’s are the best. The U.S. also has the largest and most capable fleets of air transports, refueling aircraft and airborne ISR assets in the world. During Operation Iraqi Freedom, the Air Force flew soldiers and heavy armor deep into Iraq to seize a critical target, the Haditha Dam. Since 2001, the Air Force has maintained a continuous air bridge to Afghanistan, more than 8,000 miles from CONUS. U.S. C-17 transports are today flying French troops and equipment into Mali. The U.S. Navy has a fleet of fixed wing transports, the C-2 Greyhounds, specifically for the purpose of moving parts and people to and from its aircraft carriers. The United States has crafted an ISR and strategic warning capability based on a sophisticated array of satellites, manned platforms and unmanned aerial systems.  Dominant air power is about much more than just platforms and weapons. It requires also the trained people and processes to plan and manage air operations, process, exploit and disseminate intelligence, identify targets and plan attacks, move supplies and route transports and repair and maintain complex systems. The U.S. had to send hundreds of targeteers to NATO to support the Libyan operation. Over decades, the U.S. military has developed an unequalled training establishment and set of ranges that ensure the highest quality pilots and other personnel. Finally, the U.S. is the dominant air power in the world because of its aerospace industrial base. Whether it is designing and producing fifth-generation fighters such as the F-22 and F-35, providing an advanced tanker like the new KC-46 or inventing high-flying unmanned aerial systems like the Global Hawk, the U.S. aerospace industry continues to set the bar. In addition, the private and public parts of the aerospace industrial base, often working together based on collaborative arrangements such as performance-based logistics contracts, is able to move aircraft, weapons and systems through the nationwide system of depots, Air Logistics Centers and other facilities at a rate unmatched by any other nation. The ability to rapidly repair or overhaul aircraft is itself a force multiplier, providing more aircraft on the flight line to support the warfighters. The U.S. military can go where it is ordered, respond rapidly to the crisis of the moment, move men, equipment and supplies around the world and dominate any place on the face of the earth as long as it desires because it is dominant in the air. As the Pentagon, Congress and the White House struggle with budget issues that could well require deep cuts to the military, they would be well advised to remember that it is air dominance that enables this country to remain a superpower.

#### The pursuit of hegemony is inevitable, sustainable, and prevents great power war

**Ikenberry, Brooks, and Wohlforth 13** – \*Stephen G. Brooks is Associate Professor of Government at Dartmouth College, \*\*John Ikenberry is Albert G. Milbank Professor of Politics and International Affairs at Princeton University and Global Eminence Scholar at Kyung Hee University in Seoul, \*\*William C. Wohlforth is Daniel Webster Professor of Government at Dartmouth College (“Lean Forward: In Defense of American Engagement”, January/February 2013, Foreign Affairs, http://www.foreignaffairs.com/articles/138468/stephen-g-brooks-g-john-ikenberry-and-william-c-wohlforth/lean-forward)

Of course, even if it is true that the costs of deep engagement fall far below what advocates of retrenchment claim, they would not be worth bearing unless they yielded greater benefits. In fact, they do. The most obvious benefit of the current strategy is that it reduces the risk of a dangerous conflict. The United States' security commitments deter states with aspirations to regional hegemony from contemplating expansion and dissuade U.S. partners from trying to solve security problems on their own in ways that would end up threatening other states. Skeptics discount this benefit by arguing that U.S. security guarantees aren't necessary to prevent dangerous rivalries from erupting. They maintain that the high costs of territorial conquest and the many tools countries can use to signal their benign intentions are enough to prevent conflict. In other words, major powers could peacefully manage regional multipolarity without the American pacifier. But that outlook is too sanguine. If Washington got out of East Asia, Japan and South Korea would likely expand their military capabilities and go nuclear, which could provoke a destabilizing reaction from China. It's worth noting that during the Cold War, both South Korea and Taiwan tried to obtain nuclear weapons; the only thing that stopped them was the United States, which used its security commitments to restrain their nuclear temptations. Similarly, were the United States to leave the Middle East, the countries currently backed by Washington--notably, Israel, Egypt, and Saudi Arabia--might act in ways that would intensify the region's security dilemmas. There would even be reason to worry about Europe. Although it's hard to imagine the return of great-power military competition in a post-American Europe, it's not difficult to foresee governments there refusing to pay the budgetary costs of higher military outlays and the political costs of increasing EU defense cooperation. The result might be a continent incapable of securing itself from threats on its periphery, unable to join foreign interventions on which U.S. leaders might want European help, and vulnerable to the influence of outside rising powers. Given how easily a U.S. withdrawal from key regions could lead to dangerous competition, advocates of retrenchment tend to put forth another argument: that such rivalries wouldn't actually hurt the United States. To be sure, few doubt that the United States could survive the return of conflict among powers in Asia or the Middle East--but at what cost? Were states in one or both of these regions to start competing against one another, they would likely boost their military budgets, arm client states, and perhaps even start regional proxy wars, all of which should concern the United States, in part because its lead in military capabilities would narrow. Greater regional insecurity could also produce cascades of nuclear proliferation as powers such as Egypt, Saudi Arabia, Japan, South Korea, and Taiwan built nuclear forces of their own. Those countries' regional competitors might then also seek nuclear arsenals. Although nuclear deterrence can promote stability between two states with the kinds of nuclear forces that the Soviet Union and the United States possessed, things get shakier when there are multiple nuclear rivals with less robust arsenals. As the number of nuclear powers increases, the probability of illicit transfers, irrational decisions, accidents, and unforeseen crises goes up. The case for abandoning the United States' global role misses the underlying security logic of the current approach. By reassuring allies and actively managing regional relations, Washington dampens competition in the world s key areas, thereby preventing the emergence of a hothouse in which countries would grow new military capabilities. For proof that this strategy is working, one need look no further than the defense budgets of the current great powers: on average, since 1991 they have kept their military expenditures as A percentage of GDP to historic lows, and they have not attempted to match the United States' top-end military capabilities. Moreover, all of the world's most modern militaries are U.S. allies, and the United States' military lead over its potential rivals .is by many measures growing. On top of all this, the current grand strategy acts as a hedge against the emergence regional hegemons. Some supporters of retrenchment argue that the U.S. military should keep its forces over the horizon and pass the buck to local powers to do the dangerous work of counterbalancing rising regional powers. Washington, they contend, should deploy forces abroad only when a truly credible contender for regional hegemony arises, as in the cases of Germany and Japan during World War II and the Soviet Union during the Cold War. Yet there is already a potential contender for regional hegemony--China--and to balance it, the United States will need to maintain its key alliances in Asia and the military capacity to intervene there. The implication is that the United States should get out of Afghanistan and Iraq, reduce its military presence in Europe, and pivot to Asia. Yet that is exactly what the Obama administration is doing. MILITARY DOMINANCE, ECONOMIC PREEMINENCE Preoccupied with security issues, critics of the current grand strategy miss one of its most important benefits: sustaining an open global economy and a favorable place for the United States within it. To be sure, the sheer size of its output would guarantee the United States a major role in the global economy whatever grand strategy it adopted. Yet the country's military dominance undergirds its economic leadership. In addition to protecting the world economy from instability, its military commitments and naval superiority help secure the sea-lanes and other shipping corridors that allow trade to flow freely and cheaply. Were the United States to pull back from the world, the task of securing the global commons would get much harder. Washington would have less leverage with which it could convince countries to cooperate on economic matters and less access to the military bases throughout the world needed to keep the seas open. A global role also lets the United States structure the world economy in ways that serve its particular economic interests. During the Cold War, Washington used its overseas security commitments to get allies to embrace the economic policies it preferred--convincing West Germany in the 1960s, for example, to take costly steps to support the U.S. dollar as a reserve currency. U.S. defense agreements work the same way today. For example, when negotiating the 2011 free-trade agreement with South Korea, U.S. officials took advantage of Seoul's desire to use the agreement as a means of tightening its security relations with Washington. As one diplomat explained to us privately, "We asked for changes in labor and environment clauses, in auto clauses, and the Koreans took it all." Why? Because they feared a failed agreement would be "a setback to the political and security relationship." More broadly, the United States wields its security leverage to shape the overall structure of the global economy. Much of what the United States wants from the economic order is more of the same: for instance, it likes the current structure of the World Trade Organization and the International Monetary Fund and prefers that free trade continue. Washington wins when U.S. allies favor this status quo, and one reason they are inclined to support the existing system is because they value their military alliances. Japan, to name one example, has shown interest in the Trans-Pacific Partnership, the Obama administration's most important free-trade initiative in the region, less because its economic interests compel it to do so than because Prime Minister Yoshihiko Noda believes that his support will strengthen Japan's security ties with the United States. The United States' geopolitical dominance also helps keep the U.S. dollar in place as the world's reserve currency, which confers enormous benefits on the country, such as a greater ability to borrow money. This is perhaps clearest with Europe: the EU'S dependence on the United States for its security precludes the EU from having the kind of political leverage to support the euro that the United States has with the dollar. As with other aspects of the global economy, the United States does not provide its leadership for free: it extracts disproportionate gains. Shirking that responsibility would place those benefits at risk. CREATING COOPERATION What goes for the global economy goes for other forms of international cooperation. Here, too, American leadership benefits many countries but disproportionately helps the United States. In order to counter transnational threats, such as terrorism, piracy, organized crime, climate change, and pandemics, states have to work together and take collective action. But cooperation does not come about effortlessly, especially when national interests diverge. The United States' military efforts to promote stability and its broader leadership make it easier for Washington to launch joint initiatives and shape them in ways that reflect U.S. interests. After all, cooperation is hard to come by in regions where chaos reigns, and it flourishes where leaders can anticipate lasting stability. U.S. alliances are about security first, but they also provide the political framework and channels of communication for cooperation on nonmilitary issues. NATO, for example, has spawned new institutions, such as the Atlantic Council, a think tank, that make it easier for Americans and Europeans to talk to one another and do business. Likewise, consultations with allies in East Asia spill over into other policy issues; for example, when American diplomats travel to Seoul to manage the military alliance, they also end up discussing the Trans-Pacific Partnership. Thanks to conduits such as this, the United States can use bargaining chips in one issue area to make progress in others. The benefits of these communication channels are especially pronounced when it comes to fighting the kinds of threats that require new forms of cooperation, such as terrorism and pandemics. With its alliance system in place, the United States is in a stronger position than it would otherwise be to advance cooperation and share burdens. For example, the intelligence-sharing network within NATO, which was originally designed to gather information on the Soviet Union, has been adapted to deal with terrorism. Similarly, after a tsunami in the Indian Ocean devastated surrounding countries in 2004, Washington had a much easier time orchestrating a fast humanitarian response with Australia, India, and Japan, since their militaries were already comfortable working with one another. The operation did wonders for the United States' image in the region. The United States' global role also has the more direct effect of facilitating the bargains among governments that get cooperation going in the first place. As the scholar Joseph Nye has written, "The American military role in deterring threats to allies, or of assuring access to a crucial resource such as oil in the Persian Gulf, means that the provision of protective force can be used in bargaining situations. Sometimes the linkage may be direct; more often it is a factor not mentioned openly but present in the back of statesmen's minds." THE DEVIL WE KNOW Should America come home? For many prominent scholars of international relations, the answer is yes--a view that seems even wiser in the wake of the disaster in Iraq and the Great Recession. Yet their arguments simply don't hold up. There is little evidence that the United States would save much money switching to a smaller global posture. Nor is the current strategy self-defeating: it has not provoked the formation of counterbalancing coalitions or caused the country to spend itself into economic decline. Nor will it condemn the United States to foolhardy wars in the future. What the strategy does do is help prevent the outbreak of conflict in the world's most important regions, keep the global economy humming, and make international cooperation easier. Charting a different course would threaten all these benefits. This is not to say that the United States' current foreign policy can't be adapted to new circumstances and challenges. Washington does not need to retain every commitment at all costs, and there is nothing wrong with rejiggering its strategy in response to new opportunities or setbacks. That is what the Nixon administration did by winding down the Vietnam War and increasing the United States' reliance on regional partners to contain Soviet power, and it is what the Obama administration has been doing after the Iraq war by pivoting to Asia. These episodes of rebalancing belie the argument that a powerful and internationally engaged America cannot tailor its policies to a changing world. A grand strategy of actively managing global security and promoting the liberal economic order has served the United States exceptionally well for the past six decades, and there is no reason to give it up now. The country's globe-spanning posture is the devil we know, and a world with a disengaged America is the devil we don't know. Were American leaders to choose retrenchment, they would in essence be running a massive experiment to test how the world would work without an engaged and liberal leading power. The results could well be disastrous.

#### Statistics prove heg is effective

**Owen 11** [John Owen, Associate professor in the University of Virginia's Department of Politics, recipient of fellowships from the Olin Institute for Strategic Studies at Harvard, and the Center for International Security and Cooperation at Stanford, and the Center of International Studies at Princeton, PhD in international relations from Harvard, February 11, 2011, “Don’t Discount Hegemony, [www.cato-unbound.org/2011/02/11/john-owen/dont-discount-hegemony/](http://www.cato-unbound.org/2011/02/11/john-owen/dont-discount-hegemony/)]

Andrew Mack and his colleagues at the Human Security Report Project are to be congratulated. Not only do they present a study with a striking conclusion, driven by data, free of theoretical or ideological bias, but they also do something quite unfashionable: they bear good news. Social scientists really are not supposed to do that. Our job is, if not to be Malthusians, then at least to point out disturbing trends, looming catastrophes, and the imbecility and mendacity of policy makers. And then it is to say why, if people listen to us, things will get better. We do this as if our careers depended upon it, and perhaps they do; for if all is going to be well, what need then for us? Our colleagues at Simon Fraser University are brave indeed. That may sound like a setup, but it is not. I shall challenge neither the data nor the general conclusion that violent conflict around the world has been decreasing in fits and starts since the Second World War. When it comes to violent conflict among and within countries, things have been getting better. (The trends have not been linear—Figure 1.1 actually shows that the frequency of interstate wars peaked in the 1980s—but the 65-year movement is clear.) Instead I shall accept that Mack et al. are correct on the macro-trends, and focus on their explanations they advance for these remarkable trends. With apologies to any readers of this forum who recoil from academic debates, this might get mildly theoretical and even more mildly methodological. Concerning international wars, one version of the “nuclear-peace” theory is not in fact laid to rest by the data. It is certainly true that nuclear-armed states have been involved in many wars. They have even been attacked (think of Israel), which falsifies the simple claim of “assured destruction”—that any nuclear country A will deter any kind of attack by any country B because B fears a retaliatory nuclear strike from A. But the most important “nuclear-peace” claim has been about mutually assured destruction, which obtains between two robustly nuclear-armed states. The claim is that (1) rational states having second-strike capabilities—enough deliverable nuclear weaponry to survive a nuclear first strike by an enemy—will have an overwhelming incentive not to attack one another; and (2) we can safely assume that nuclear-armed states are rational. It follows that states with a second-strike capability will not fight one another. Their colossal atomic arsenals neither kept the United States at peace with North Vietnam during the Cold War nor the Soviet Union at peace with Afghanistan. But the argument remains strong that those arsenals did help keep the United States and Soviet Union at peace with each other. Why non-nuclear states are not deterred from fighting nuclear states is an important and open question. But in a time when calls to ban the Bomb are being heard from more and more quarters, we must be clear about precisely what the broad trends toward peace can and cannot tell us. They may tell us nothing about why we have had no World War III, and little about the wisdom of banning the Bomb now. Regarding the downward trend in international war, Professor Mack is friendlier to more palatable theories such as the “democratic peace” (democracies do not fight one another, and the proportion of democracies has increased, hence less war);the interdependence or “commercial peace” (states with extensive economic ties find it irrational to fight one another, and interdependence has increased, hence less war); and the notion that people around the world are more anti-war than their forebears were. Concerning the downward trend in civil wars, he favors theories of economic growth (where commerce is enriching enough people, violence is less appealing—a logic similar to that of the “commercial peace” thesis that applies among nations) and the end of the Cold War (which end reduced superpower support for rival rebel factions in so many Third-World countries). These are all plausible mechanisms for peace. What is more, none of them excludes any other; all could be working toward the same end. That would be somewhat puzzling, however. Is the world just lucky these days? How is it that an array of peace-inducing factors happens to be working coincidentally in our time, when such a magical array was absent in the past? The answer may be that one or more of these mechanisms reinforces some of the others, or perhaps some of them are mutually reinforcing. Some scholars, for example, have been focusing on whether economic growth might support democracy and vice versa, and whether both might support international cooperation, including to end civil wars. We would still need to explain how this charmed circle of causes got started, however. And here let me raise another factor, perhaps even less appealing than the “nuclear peace” thesis, at least outside of the United States. That factor is what international relations scholars call hegemony—specifically American hegemony. A theory that many regard as discredited, but that refuses to go away, is called hegemonic stability theory. The theory emerged in the 1970s in the realm of international political economy. It asserts that for the global economy to remain open—for countries to keep barriers to trade and investment low—one powerful country must take the lead. Depending on the theorist we consult, “taking the lead” entails paying for global public goods (keeping the sea lanes open, providing liquidity to the international economy), coercion (threatening to raise trade barriers or withdraw military protection from countries that cheat on the rules), or both. The theory is skeptical that international cooperation in economic matters can emerge or endure absent a hegemon. The distastefulness of such claims is self-evident: they imply that it is good for everyone the world over if one country has more wealth and power than others. More precisely, they imply that it has been good for the world that the United States has been so predominant. There is no obvious reason why hegemonic stability theory could not apply to other areas of international cooperation, including in security affairs, human rights, international law, peacekeeping (UN or otherwise), and so on. What I want to suggest here—suggest, not test—is that American hegemony might just be a deep cause of the steady decline of political deaths in the world. How could that be? After all, the report states that United States is the third most war-prone country since 1945. Many of the deaths depicted in Figure 10.4 were in wars that involved the United States (the Vietnam War being the leading one). Notwithstanding politicians’ claims to the contrary, a candid look at U.S. foreign policy reveals that the country is as ruthlessly self-interested as any other great power in history. The answer is that U.S. hegemony might just be a deeper cause of the proximate causes outlined by Professor Mack. Consider economic growth and openness to foreign trade and investment, which (so say some theories) render violence irrational. American power and policies may be responsible for these in two related ways. First, at least since the 1940s Washington has prodded other countries to embrace the market capitalism that entails economic openness and produces sustainable economic growth. The United States promotes capitalism for selfish reasons, of course: its own domestic system depends upon growth, which in turn depends upon the efficiency gains from economic interaction with foreign countries, and the more the better. During the Cold War most of its allies accepted some degree of market-driven growth. Second, the U.S.-led western victory in the Cold War damaged the credibility of alternative paths to development—communism and import-substituting industrialization being the two leading ones—and left market capitalism the best model. The end of the Cold War also involved an end to the billions of rubles in Soviet material support for regimes that tried to make these alternative models work. (It also, as Professor Mack notes, eliminated the superpowers’ incentives to feed civil violence in the Third World.) What we call globalization is caused in part by the emergence of the United States as the global hegemon.

#### Manufacturing drives innovation and pharmaceuticals

Swezey 11 (Devon Swezey, Project Director for Breakthrough Institute where he works as an energy and climate policy analyst and Ryan McConaghy, pg online @ <http://thebreakthrough.org/blog/BTI_Third_Way_Idea_Brief_-_Manufacturing_Growth_.pdf>)

New manufacturing thrives on and drives innovation. Manufacturing is a core component of the nation’s innovation ecosystem. Firms engaged in manufacturing re-invest a significant portion of revenues in research and development (R&D). Overall, the manufacturing sector comprises two-thirds 9 of industry investment in R&D and employs nearly 64% of the country’s scientists and engineers. 10 Manufacturers also have unique opportunities to apply new technologies for specialized functions and achieve economies of scale at the plant or firm, 11 making the return on manufacturing R&D significant. The transition to advanced manufacturing will enhance the sector’s role in fostering innovation and developing and commercializing new technologies. Advanced manufacturing industries, including semiconductors, computers, pharmaceuticals, clean energy technologies, and nanotechnology, play an outsized role in generating the new technologies, products, and processes that drive economic growth. Advanced manufacturing is also characterized by the rapid transfer of science and technology into manufacturing processes and products, which in and of itself drives innovation. The research-to-manufacturing process is cyclical, with multiple feedbacks between basic R&D, pre-competitive research, prototyping, product development, and manufacturing. This opens new possibilities for product development and manufacturing. 12

#### Independently, sustaining tech innovation solves extinction

Heaberlin 04 (Scott W, Nuclear Safety and Technology Applications Product Line @ Pacific Northwest National Laboratory, “A Case for Nuclear-Generated Electricity,” Battelle Press, 2004 \*\*\* we don’t endorse the gendered language if any in this card)

Cohen looked at all the various population estimates and concluded that most fell into the range of 4 to 16 billion. Taking the highest value when researchers offered a range, Cohen calculated a high median of 12 billion and taking the lower part of the range a low median of 7.7 billion. The good news in this is 12 billion is twice as many people as we have now. The bad news is that the projections for world population for 2050 are between 7.8 and 12.5 billion. That means we have got no more than 50 years before we exceed the nominal carrying capacity of the earth. Cohen also offers a qualifying observation by stating the "First Law of Information," which asserts that 97.6% of all statistics are made up. This helps us appreciate that application of these numbers to real life is subject to a lot of assumptions and insufficiencies in our understanding of the processes and data. However, we can draw some insights from all of this. What it comes down to is that if you choose the fully sustainable, non-fossil fuel long-term options with only limited social integration, the various estimates Cohen looked at give you a number like 1 billion or less people that the earth can support. That means 5 out of 6 of us have got to go, plus no new babies without an offsetting death. On the other hand, **if you let technology continue to do its thing and** perhaps **get** even **better, the picture need not be so bleak.** We haven't made all our farmland as productive as it can be. Remember, the Chinese get twice the food value per hectare as we do in the United States. There is also a lot of land that would become arable if we could get water to it. And, of course, in case you need to go back and check the title of this book, there are alternatives to fossil fuels to provide the energy to power that technology. So given a positive and perhaps optimistic view of technology, we can look to some of the high technology assumption based studies from Cohen's review. From the semi-credible set of these, we can find estimates from 19 to 157 billion as the number of people the earth could support with a rough average coming in about 60 billion. This is a good time to be reminded of the First Law of Information. The middle to lower end of this range, however, might be done without wholesale social reprogramming. Hopefully we would see the improvement in the quality of life in the developing countries as they industrialize and increase their use of energy. Hopefully, also this would lead to a matching of the reduction in fertility rates that has been observed in the developed countries, which in turn would lead to an eventual balancing of the human population. The point to all this is the near-term future of the human race depends on technology. **If we turn away from technology, a very large fraction of the current and future human race will starve**. If we just keep on as we are, with our current level of technology and dependence on fossil fuel resources, in the near term it will be a race between fertility decrease and our ability to feed ourselves, with, frankly, disaster the slight odds-on bet. In a slightly longer term, dependence on fossil fuels has got to lead to either social chaos or environmental disaster. There are no other end points to that road. It doesn't go anywhere else. However, if we accept that it is technology that makes us human, that technology uniquely identifies us as the only animal that can choose its future, we can choose to live, choose to make it a better world for everyone and all life. This means more and better technology. It means more efficient technology that is kinder to the planet but also allows humans to support large numbers in a high quality of life. That road is not easy and has a number of ways to screw up. However, it is a road that can lead to a happier place, a better place.

**Mexican pharmaceuticals are key**

NAPS 4/11/13 (North American Production Sharing Incorporated, <http://www.napsintl.com/news/index.php/2013/04/11/the-medical-device-industry-manufacturing-in-mexico-has-a-clean-bill-of-health/>)

[Medical device](http://www.napsintl.com/medicaldevice.php) companies manufacturing in Mexico continue to exhibit steady growth with no sign of a slow down in sight. As costs in the United States and Eastern Europe continue to rise, especially with the implementation of “Obamacare” and its direct impact on medical device companies, more organizations are considering [manufacturing in Mexico](http://www.napsintl.com/manufacturinginmexico.php) as a viable solution. No other place in Mexico is this more evident than in Tijuana, where they now claim the largest concentration of medical device companies in all of North America. The ability to provide both timely deliveries and consistently high quality products are a few reasons why medical device manufacturers are choosing Mexico. Also, there is a tremendous base of talented labor with experience in medical device, [automotive](http://www.napsintl.com/auto.php), electronics, aerospace and other sophisticated industries to support the growth of manufacturing in Mexico. Furthermore, the labor laws in Mexico provide companies much more flexibility in terms of compensation, scheduling and seasonality, which plays an important roll on profitability. Another factor drawing medical device manufacturers to Mexico is the government’s enforcement, and employee’s respect, for intellectual property. Unlike many other low-cost manufacturing countries, Mexico is known for its low piracy rates, which cost companies billions of dollars a year. One of the challenges facing these companies is understanding the business landscape and culture in Mexico, which is why many of these firms are choosing to outsource their administration and compliance management to shelter companies. A good shelter company will handle 100% of the administration, including Humyn Resources in Mexico, Payroll in Mexico, Accounting in Mexico, Import/Export in Mexico and Environmental, Health & Safety in Mexico, allowing the manufacturer to focus on production and quality control. “We are receiving a record number of inquires from medical device manufacturers around the world who want to explore Mexico as a competitive solution,” said Scott Stanley, Sr. Vice President of North American Production Sharing, Inc. (NAPS), Tijuana’s largest and most sophisticated shelter service provider. “NAPS guides these companies through the process of feasibility by providing all the facts and figures about expanding into Mexico so sound business decisions can be made. Thereafter, we essentially become partners and typically work together for many years.” With an increase in demand for medical device products, not only in the United States but also within Mexico’s public health sector, Mexico will continue to be the primary choice for medical device manufacturing.

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#### **Pharmaceutical advancements solve disease**

Dana-Farber, 2002 [Since its founding in 1947, Dana-Farber has been committed to providing cancer patients with the best treatment available today while developing tomorrow's cures through cutting-edge research. Research into rare disease leads to discovery of six new breast cancer-susceptibility genes, June 13, http://www.dana-farber.org/abo/news/press/061302b.asp]

**A decade of research into one of the world's least-known diseases has resulted in a major advance against one of the best-known:** the discovery of six genes linked to inherited breast **cancer.** In a study published online by the journal Science on June 13, investigators at Dana-Farber Cancer Institute and Children's Hospital Boston report that an error in any of the half-dozen genes involved in Fanconi anemia - a rare childhood condition - can increase an individual's chances of developing breast cancer. **The discovery raises the prospect that the ranks of known breast cancer-susceptibility genes -** best known as BRCA1 and BRCA2 **- will soon increase four-fold,** to a total of eight. "Just as women today can be tested for BRCA1 and BRCA2 mutations to determine if they have an inherited predisposition for breast cancer, testing for mutations in these other six genes may soon become a routine part of gauging inherited breast cancer risk," says the study's senior author, Alan D'Andrea, MD, of Dana-Farber. **"Women and their doctors can then use the information in deciding how to keep that risk at a minimum." The finding may also spur the development of new treatments capable of preventing or quelling breast cancer in women at risk for the disease. Drugs that can counteract the flaws in specific genes promise to be more effective than therapies that take a more generic approach.** The discovery of the new cancer-susceptibility genes grew out of more than 10 years of research by D'Andrea into Fanconi anemia, a condition known to affect only 500 families in the United States. Children born with the condition usually develop bone marrow failure early in life, leaving them unable to produce oxygen-carrying red blood cells. If they survive into young adulthood - often with the help of a bone marrow transplant - they're at risk for a variety of cancers - most often leukemia, but also tumors of the brain, head and neck, breast, colon, and other parts of the body**. "This work is a prime example of how research into rare conditions can lead to better diagnosis and treatment for people with far more common diseases,"** D'Andrea explains.

#### H5N1 and other deadly pathogens will escape from BSL-4 labs—the impact is extinction **Wilson 13** (Grant Wilson, J.D. from the Lewis and Clark Law School, has worked on international law issues and emerging technologies specifically in Mexico, Professional Associate at the Global Catastrophic Risk Institute, a nonprofit think tank that engages in research, education, and professional networking in areas related to global catastrophic risks, “Minimizing Global Catastrophic and Existential Risks from Emerging Technologies through International Law “ <http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2179094>,)

An accidental release of a bioengineered microorganism during legitimate research poses a GCR/ER when such a microorganism has the potential to be highly deadly and has never been tested in an uncontrolled environment. The threat of an accidental release of a harmful organism recently sparked an unprecedented scientific debate amongst policymakers, scientists, and the general public in reaction to the creation of an airborne strain of H5N1. In September 2011, Ron Fouchier, a scientist from the Netherlands, announced that he had genetically engineered the H5N1 virus—his lab “mutated the hell out of H5N1,” he professed—to become airborne, which was tested on ferrets; a laboratory at the University of Wisconsin-Madison similarly mutated the virus into a highly transmittable form. The “natural” H5N1 killed approximately sixty percent of those with reported infections (although the large amount of unreported cases means that this is an over estimate), but the total number of fatalities—346 people—was relatively small because the virus is difficult to transmit from human to human. The larger risk comes from the possibility that a mutated virus would spread more easily amongst humans, which could result in a devastating flu pandemic amongst the worst in history, if not the very worst. To put this in context, about one in every fifteen Americans—20 million people—would die every year from a seasonal flu as virulent as a highly transmittable form of H5N1. Lax regulations and a rapidly growing number of laboratories exacerbate the dangers posed by bioengineered organisms. While lab biosafety guidelines in the United States and Europe recommended that projects like reengineering the H5N1 virus be conducted in a BSL-4 facility (the highest security level), neither laboratory that reengineered the H5N1 virus met this non-binding standard. Meanwhile, a 2007 Government Accountability Office (“GAO”) report indicated that BSL-3 and BSL-4 labs are rapidly expanding in the United States. While there is significant public information about laboratories that receive federal funding or are registered with the Centers for Disease Control and Prevention (“CDC”) and the U.S. Department of Agriculture’s (“USD”) Select Agent Program, much less is known about the “location, activities, and ownership” of labs that are not federally funded and not registered with the CDC or the USD Select Agent Program. The same report also concluded that no single U.S. agency is responsible for tracking and assessing the risks of labs engaging in bioengineering.

#### Burnout theory is false

Casadevall 12 March 21st, 2012, Arturo Casaveall is a professor of Microbiology and Immunology at the Albert Einstein College of Medicine, Arturo, “The future of biological warfare,”<http://onlinelibrary.wiley.com/doi/10.1111/j.1751-7915.2012.00340.x/full>  
In considering the importance of biological warfare as a subject for concern it is worthwhile to review the known existential threats. At this time this writer can identify at three major existential threats to humanity: (i) large-scale thermonuclear war followed by a nuclear winter, (ii) a planet killing asteroid impact and (iii) infectious disease. To this trio might be added climate change making the planet uninhabitable. Of the three existential threats the first is deduced from the inferred cataclysmic effects of nuclear war. For the second there is geological evidence for the association of asteroid impacts with massive extinction (Alvarez, 1987). As to an existential threat from microbes recent decades have provided unequivocal evidence for the ability of certain pathogens to cause the extinction of entire species. Although infectious disease has traditionally not been associated with extinction this view has changed by the finding that a single chytrid fungus was responsible for the extinction of numerous amphibian species (Daszak et al., 1999; Mendelson et al., 2006). Previously, the view that infectious diseases were not a cause of extinction was predicated on the notion that many pathogens required their hosts and that some proportion of the host population was naturally resistant. However, that calculation does not apply to microbes that are acquired directly from the environment and have no need for a host, such as the majority of fungal pathogens. For those types of host–microbe interactions it is possible for the pathogen to kill off every last member of a species without harm to itself, since it would return to its natural habitat upon killing its last host. Hence, from the viewpoint of existential threats environmental microbes could potentially pose a much greater threat to humanity than the known pathogenic microbes, which number somewhere near 1500 species (Cleaveland et al., 2001; Tayloret al., 2001), especially if some of these species acquired the capacity for pathogenicity as a consequence of natural evolution or bioengineering.

#### Disease causes war

**Evans 10** (Jane Evans Department of Military Strategic Studies, writing for global security studies “Pandemics and National Security” <http://globalsecuritystudies.com/Evans%20PANDEMICS.pdf>, Donnie)

Recent developments in medicine, hygiene, and public health have virtually eliminated widespread disease from industrialized countries like the U.S., making pandemics of new or emerging diseases the salient national security issue. A pandemic is an epidemic spread over a wide geographical area and affecting many people, and while a pandemic does not threaten the survival of humanity, it challenges the prosperity and stability of political institutions and human society. Andrew Price-Smith argues that “rapid worldwide changes may accelerate the diffusion, the lethality, and the resistance of the plethora of species within the microbial world” (5). For instance, changes in agricultural practices have created new ecological niches for disease – vast bovine, avian, and swine farms, in huge numbers and often in close proximity that can facilitate cross-species infection. Transportation of persons, animals, and food products around the world also presents a serious problem. New pathogens are emerging at an increasingly accelerated rate; “Alteration in the processing of cattle feed in the U.K. resulted in extended host range and emergence of [mad cow disease]… New opportunities can be created by climatic changes such as global warming and ecologic alterations facilitated through changed land use and movements of infected hosts, susceptible animals, or disease vectors” (Cutler 2). A disease can change in several important ways: it can jump to a new species (swine to human), change transmission method (blood-borne to aerosol dispersion), become more lethal, or become drug-resistant (Methicillin-resistant Staphylococcus aureus – MRSA). Emerging diseases or those thought to be wiped out are becoming more of an issue with globalization and changing societal practices. There are many ways diseases can threaten national security. First, they cause increased rates of morbidity and mortality – people sicken and die, putting huge strains on public health and the nation’s workforce, leading to political instability, class strife, and economic volatility. For example, AIDS has led to numerous problems in many African countries. When marginalized or poor people cannot afford treatment and the government cannot or will not provide it, faith in the political system crumbles; class and ethnic conflict emerges and without a sufficient working class, GDP decreases and each problem begets more problems. Second, in the article “Epidemic Disease and National Security,” author Susan Peterson argues that the most direct threat posed by a disease to the United States arises from its vulnerability to biological weapons attack (45). It is important to note that the result of a naturally spreading disease and something like bioterrorism is one and the same. Failure to prevent a biological weapons attack results in the same outcome – infection of the population – and requires the same solution. Preparation for widespread disease should therefore be a key focus of national security. More indirect threats to national security include “the health of the armed forces and, most significantly, to the social, economic, and political stability of certain key regions – especially Russia – that also challenge American security” (Peterson 46). In this sense, diseases lower the ability of the State Department or the Department of Defense to adequately provide international security to the United States. Both internal and external national security is threatened by the spread of disease. In October 2009, the Center for Biosecurity of UPMC organized a conference that addressed many of the issues pertaining to the threat of biological weapons attacks. The Director of the Center referenced a recent National Intelligence Estimate that identified bioterrorism as the intelligence community’s most important WMD concern, because “the knowledge, equipment, and pathogens required to construct a biological weapon are now globally dispersed, and there is no single technological methodology chokepoint or process that can be regulated to prevent the development of biological weapons” (Gronvall 433). For many of the reasons listed so far in this paper, the outcome of a biological attack is particularly worrisome, necessitating a closer examination of malicious bio-threats. Unlike nuclear technologies, biological materials and information are easy to obtain, and the nature of biosciences is such that equipment, expertise, and infrastructure in the field supports an important function to society and cannot, nor should it, be limited. Any attempt to prevent the development of biological weapons would also limit much needed medical advancements. The CDC defines a bioterrorism attack as “the deliberate release of viruses, bacteria, or other germs (agents) used to cause illness or death in people, animals, or plants” (CDC/Bioterrorism). These agents have a high potential for abuse by terrorist groups for several reasons. First, a disease can be difficult to detect due to the incubation period between when an individual is infected and when symptoms begin to show. Second, the dispersion capability of some diseases allows a wider range of influence than an explosive device. Third, one bioweapon can have a multiplicative effect – although only 100 people are initially infected, with a disease like smallpox, each person can then infect multiple other people, who in turn pass it on to even more. Outside the anthrax attacks of 2001, the U.S. has yet to experience a serious confirmed bioterrorist attack. However, this does not mean the threat should be minimized until an incident such as 9/11 acts as the catalyst; biological weapons are a direct threat to national security. Of the more indirect threats to U.S. national security, there are three mechanisms through which infectious diseases cause instability within a foreign nation of the outbreak of military conflict. Peterson describes these as the balance of power among adversaries, health and human rights policy conflicts, and domestic instability (55). The first and most obvious mechanism involves one side of a dispute or conflict disproportionately suffering from a disease, leading to an imbalance of power and a possible preemptive attack. If a nation’s military capabilities are strongly affected by AIDS, this can present a vulnerable weakness. However, as with all three causal mechanisms, this type of situation will generally only occur when a pandemic is particularly severe or when the involved nations are unstable to begin with; this can be seen in warring African states with high HIV/AIDS incidence rates. The second mechanism concerns policies in response to an outbreak. For example, a nation may restrict freedom of movement and goods, or impose involuntary quarantine of infected individuals. While these policies likely will not cause conflict, they can lead to social and economic volatility if the practices persist. The third and most important mechanism is domestic instability. Consider AIDS, which largely affects people in their most economically productive years, and leads to the destruction of a country’s workforce, diminished productivity, and a dwindling professional and middle class (Peterson 59). Furthermore, the AIDS crisis is leaving behind a generation of orphans which the CIA says are “unable to cope and vulnerable to exploitation and radicalization,” as seen by the violence of alienated youths in Zimbabwe (Peterson 61). All of the examples above are representative of a critical pattern; as Price-Smith writes, “infectious disease may in fact contribute to societal destabilization and to chronic low-intensity intrastate violence, and in extreme cases it may accelerate the processes that lead to state failure” (121). The U.S. should be concerned on the level of national security, because it has been demonstrated repeatedly that failed states foster terrorism, regional instability, and often necessitate foreign aid and humanitarian assistance.