# 1AC

## 1AC---DPS

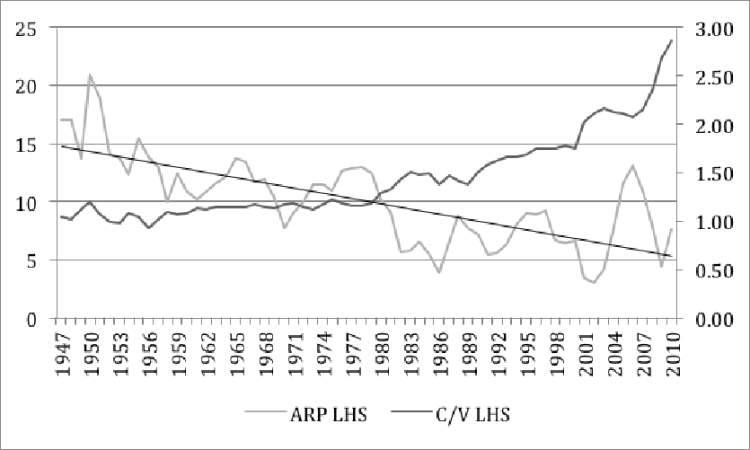
### 1AC---Crisis

#### Advantage 1 is Crisis:

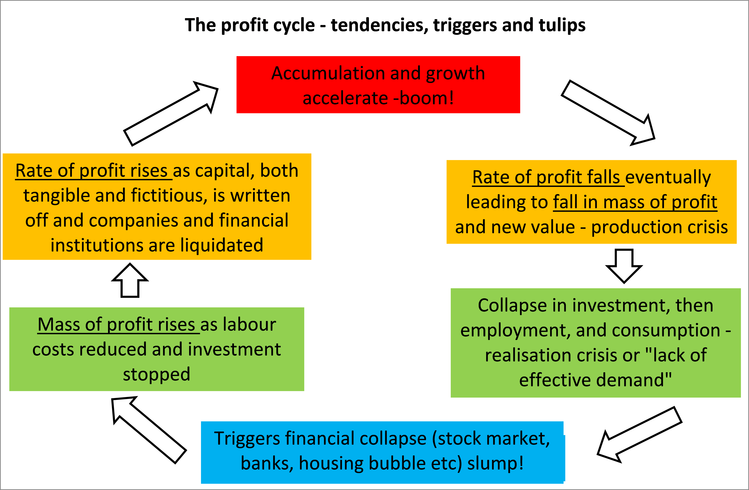
#### Marx’s law of profitability explains cyclical recessions and renders capitalism unsustainable

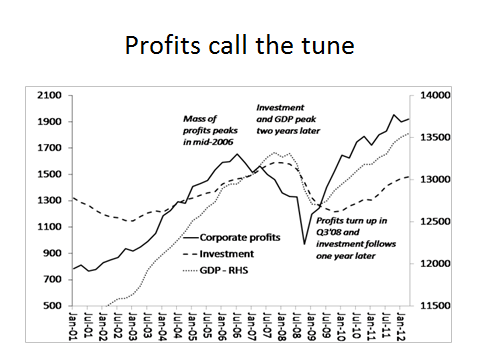
Roberts 15 - London economist (Michael, https://thenextrecession.wordpress.com/2015/12/29/the-marxist-theory-of-economic-crises-in-capitalism-part-two/, emuse)

Does Marx’s law fit the facts? Some Marxist critics of Marx’s law of profitability reckon that the law cannot be empirically proven or refuted because official statistics cannot be used to show Marx’s law in operation. But there are plenty of studies by Marxist economists that show otherwise. The key tests of the validity of the law in modern capitalist economies would be to show whether 1) the rate of profit falls over time as the organic composition of capital rises; 2) the rate of profit rises when the organic composition falls or when the rate of surplus value rises faster than the organic composition of capital; 3) the rate of profit rises, if there is sharp fall in the organic composition of capital as in a slump. These would be the empirical tests and there is plenty of empirical evidence for the US and world economy to show that the answer is yes to all these questions. For example, [Basu and Manolakos](http://gesd.free.fr/basumano.pdf) applied econometric analysis to the US economy between 1948 and 2007 and found that there was a secular tendency for the rate of profit to fall with a measurable decline of about 0.3 percent a year “after controlling for counter-tendencies.” In [my work on the US rate of profit,](http://gesd.free.fr/mr1213.pdf) I also found an average decline of 0.4 percent a year through 2009. And here is a figure by G Carchedi for the rise in the organic composition of capital (OCC) in the industrial sector of the US since 1947 versus the average rate of profit (ARP). It tells the same story. US ARP and OCC (i.e. C/V) versus the average rate of profit (ARP). It tells the same story. US ARP and OCC (i.e. C/V)

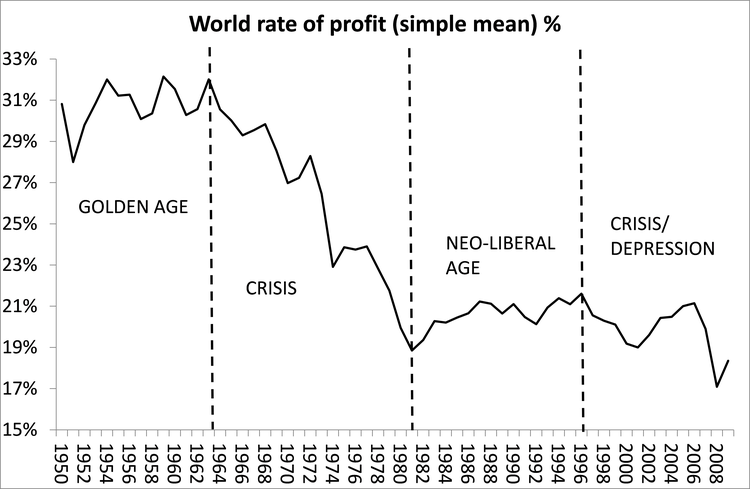
[](https://thenextrecession.files.wordpress.com/2015/12/arp.png)

There is a clear inverse correlation between a rising organic composition of capital and a falling rate of profit. Can Marx’s law explain crises? How does Marx’s law of profitability work as an explanation and forecast of slumps in capitalist economies? The law leads to a clear causal connection to regular and recurrent crises (slumps). It runs from falling profitability to falling profits to falling investment to falling employment and incomes. A bottom is reached when there is sufficient destruction of capital values (the writing off technology, the bankruptcy of companies, a reduction in wage costs) to raise profits and then profitability. Then rising profitability leads to rising investment again. The cycle of boom recommences and the whole ‘crap’ starts again, to use Marx’s colourful phrase. [There is a cycle of profit alongside the long-term tendency for the rate of profit to fall.](https://thenextrecession.files.wordpress.com/2013/07/cycles-in-capitalism.pdf)

[](https://thenextrecession.files.wordpress.com/2015/12/profit-cycle.png) The evidence of this causality between profit and investment is available. Jose Tapia Granados, using regression analysis, finds that, over 251 quarters of US economic activity from 1947, profits started declining long before investment did and that pre-tax profits can explain 44% of all movement in investment, while there is no evidence that investment can explain any movement in profits. I find a higher ‘Granger causality’ of 60% from annual changes in profit and investment (unpublished) and a correlation of 0.67 for the period since 2000. And see this by G Carchedi ([Carchedi Presentation](https://thenextrecession.files.wordpress.com/2015/06/carchedi-presentation.pptx)). In the period leading up to the Great Recession 2008-9, we can see the causality visually for US profits, investment and real GDP in the graphic below. The mass of US corporate profit peaks in mid-2006, investment and GDP follows two years later. Profits turn back up in late 2008 and investment follows one year later.

[](https://thenextrecession.files.wordpress.com/2015/12/profits-lead.png)

There are two basic regularities shown by the data: that a change in profits tends to be followed next year by a change in investment in the same direction; and that a change in investment is usually followed in a few years by changes in profits in the opposite direction. Thus we have a cycle. From these results, the “regularity” of the business cycle, and the fact that profitability stagnated in 2013 and declined in 2014 (and now the mass of profits in 2015) after growing between 2008 and 2012, it can be concluded with some confidence that a recession of the US economy, which will be also part of a world economic crisis like the Great Recession, will occur again in the next few years. And Marx’s law of the tendency of the rate of profit to fall makes an even more fundamental prediction: that the capitalist mode of production will not be eternal, that it is transitory in the history of human social organisation. The law of the tendency predicts that, over time, there will be a fall in the rate of profit globally, delivering more crises of a devastating character. Work has been done by modern Marxist analysis that confirms that the world rate of profit has fallen over the last 150 years. See the graph below ([data from Esteban Maito](https://thenextrecession.files.wordpress.com/2015/05/maito-esteban-the-historical-transience-of-capital-the-downward-tren-in-the-rate-of-profit-since-xix-century.pdfhttp:/gesd.free.fr/mrwrate.pdf) and ‘doctored’ by me).

[](https://thenextrecession.files.wordpress.com/2015/12/world-rate-of-profit-maito.png) Maito’s data for the 19th century have recently been questioned ([DUMENIL-LEVY on MAITO](https://thenextrecession.files.wordpress.com/2015/12/dumenil-levy-on-maito.pdf)), but in a recent work using different sources and countries, I find a similar trend for the post-1945 period globally ([Revisiting a world rate of profit June 2015](https://thenextrecession.files.wordpress.com/2015/12/revisiting-a-world-rate-of-profit-june-2015.pdf)). And earlier groundbreaking work by Minqi Li and colleagues, as well as by Dave Zachariah, show a similar trend. As Maito concludes: “The tendency of the rate of profit to fall and its empirical confirmation highlights the historically limited nature of capitalist production. If the rate of profit measures the vitality of the capitalist system, the logical conclusion is that it is getting closer to its endpoint. There are many ways that capital can attempt to overcome crises and regenerate constantly. Periodic crises are specific to the capitalist mode of production and allow, ultimately, a partial recovery of profitability. This is a characteristic aspect of capital and the cyclical nature of the capitalist economy. But the periodic nature of these crises has not stopped the downward trend of the rate of profit over the long term. So the arguments claiming that there is an inexhaustible capacity of capital to restore the rate of profit and its own vitality and which therefore considers the capitalist mode of production as a natural and a-historical phenomenon, are refuted by the empirical evidence.” So the law predicts that, as the organic composition of capital rises globally, the rate of profit will fall despite counteracting factors and despite successive crises (which temporarily help to restore profitability). This shows that capital as a mode of production and social relations is transient. Capitalism has not always been here and it has ultimate limits, namely capital itself. It has a ‘use-by-date’. That is the essence of the law of profitability for Marx. Alternative theories This is not to deny other factors in capitalist crises. The role of credit is an important part of Marxist crisis theory and indeed, as the tendency of the rate of profit to fall engenders countertendencies, one of increasing importance is the expansion of credit and the switching of surplus value into investment in fictitious capital rather than productive capital to raise profitability temporarily, but with eventually disastrous consequences, as The Great Recession shows ([The Great Recession](https://thenextrecession.files.wordpress.com/2013/08/the-great-recession.pdf); [Debt matters](https://thenextrecession.files.wordpress.com/2012/11/debt-matters.pdf)). Alternative theories of crisis like underconsumption, or the lack of effective demand, are taken from theories from the reactionary Thomas Malthus and the radical Sismondi in the early 19th century and then taken up by Keynes in the 1930s and by modern inequality theorists like Stiglitz and [post-Keynesian economists](http://bilbo.economicoutlook.net/blog/?p=15854). But lack of demand and rising inequality cannot explain the regularity of crises or predict the next one. These theories do not have strong empirical backing either ([Does inequality causes crises](https://thenextrecession.files.wordpress.com/2015/11/does-inequality-causes-crises.pdf)). Professor Heinrich, after concluding that Marx did not have a theory of crisis and dropped the law of profitability, [does offer a vague one of his own](https://thenextrecession.wordpress.com/2015/05/19/the-two-michaels-heinrich-and-roberts-in-berlin-dogmatism-versus-doubt/): namely capital accumulates and produces more means of production blindly. This gets out of line with consumption demand from workers. So a ‘gap’ develops that has to be filled by credit, but somehow this cannot hold up things indefinitely and production then collapses. Well, it is a sort of a theory, but pretty much the same as the underconsumption (overproduction) theory that Heinrich himself dismisses and [Marx dismissed 150 years ago.](http://www.mcg-j.org/swp_arc/english/etheory/economics/eprm29-2.htm) It seems way less convincing or empirically supported that Marx’s own theory of crisis based on the law of profitability. No other theory, whether from mainstream economics or from heterodox economics, can explain recurrent and regular crises and offer a clear objective foundation for the transience of the capitalist system.

#### Profitability will hit zero by 2054---but converging tipping points ensure collapse much sooner

Reese 20 - author of Socialism or Extinction and The End of Capitalism: The Thought of Henryk Grossman (Ted, <https://www.patreon.com/posts/socialism-is-now-37023695>, emuse)

That capitalism is unsustainable has long been empirically observable. Most obviously, manufacturing costs and consumer commodity prices are trending towards zero. For example, whereas the world’s fastest supercomputer in 1975 was worth $5m ($32m in 2013’s money), the price of an iPhone 4 released in 2010 with the equivalent performance was $400. Aerospace companies producing propulsion systems in 2010 for $24m in 24 months are now 3-D printing their engines for $2,000 in two weeks. And rather than having globalised supply chains, such companies foresee the entire rocket being built in ‘at home’ [7]. While ‘offshoring’ manufacturing jobs to the ‘low-income economies’ is said to save up to 65% on labour costs, replacing human workers with robots saves up to 90% [8]. Unlike workers, robots do not need wages, breaks, sick days, holidays or pensions. And they work quicker in the first place, too. While industrialisation, particularly in Asia, saw 83 ‘developing countries’ achieving growth rates by the early 2000s that were more than twice the rate of the ‘developed’ OECD members, the rest of the world has seen the same opportunity end ‘prematurely’. Latin America and Africa are already deindustrialising (shifting to services-based workforces) – from a much lower starting point than Asia [9]. Whereas industrialisation peaked in western European countries at income levels of around $14,000, India and many sub-Saharan African countries appear to have reached their peak manufacturing employment at income levels of $700 (both at 1990 levels) [10]. Not only do robots and 3D-printing increasingly remove the incentive for capitalists based in the US and Europe to exploit workers overseas, the incentive to exploit transit workers – who add production time/value to the commodities they transport around the world – is also removed [11]. The emergence of cellular agriculture (lab-grown food), with falling prices and rising quality estimated to see the beef industry go bust by 2035, is going to have the same effect [12]. For the past 145 years, the imperialist powers – the US, Britain, France, Germany and Japan – have been increasingly compelled to export capital (invest) overseas in order to expand and cheapen their exploitable labour bases, thereby sustaining their own economies by living off profits generated by commodity-producing workers in the ‘developing world’. Britain, for example, exported capital equal to 560% of its GDP in 2014 [13]. Between 1980 and 2012 the net outflows of capital from ‘developing’ countries being funnelled into ‘developed’, ie imperialist nations, totalled $16.3 trillion [14]. But the economic relation that underpins imperialism is now unravelling. If prices are trending historically towards zero, so too must the ‘global’ aggregate rate of profit. According to Estaban Maito’s estimates, it fell in a secular trend from 43% in the 1870s to 17% in the 2000s, and is (as of 2014) on course to reach zero around 2054 [15]. Automation and absolute overaccumulation But as the criminally under-appreciated Polish Marxist Henryk Grossman warned in 1929, capitalism is bound to collapse “much earlier than a zero rate of profit” [16], because capital, inherently, does not accumulate harmoniously – the process tends to break down. Overaccumulated capital – surplus capital that has become unprofitable to reinvest – is inevitable. It causes every recession, a partial and temporary breakdown, and is at the same time an underproduction of surplus value; ie, too little profit has been generated to preserve and expand the value of total capital. (Surplus value, or surplus labour time, is the amount of value the capitalist appropriates from the worker, who, on average, keeps only what they need to subsist, their necessary labour time. Profit then is essentially unpaid labour, which tends to increase with innovation. Hence falling prices.) Debt therefore rises to ‘fill the gap’ caused by this underproduction, but can only cover the lag in profit for so long before recession becomes inevitable, since investors are bound to withdraw funds when growth becomes too stagnant, channelling this new surplus instead into tax havens, land and the competitive gambling of speculation that generates financial ‘bubbles’. Each breakdown is overcome through the sufficient destruction, cheapening and centralisation of capital. But the resulting innovation means fewer workers tend to remain employed relative to total capital. Despite the increased rate of exploitation that temporarily lifts profit rates, the next overaccumulation tends to be greater than the one which preceded it. There is no such thing as ‘technological unemployment’ though – alongside surplus capital grows unexploitable surplus labour (unemployment). Clearly, the closer we get to the completion of the historical trend towards fully-automated production, the closer capitalism gets to its final breakdown. Production is already highly automated. As James Manyika, McKinsey Global Institute director, said in June 2017: “Find a factory anywhere in the world built in the past five years  –  not many people work there.” But the services jobs – relatively unproductive since they tend to handle near-finished commodities, if they handle commodities at all – that replaced manufacturing work are now becoming increasingly automated, too. In Britain, where services count for 80% of economic activity, the number of supermarket checkout assistants fell by 25.3% between 2011 and 2017. At the end of March, after most countries had entered lockdown, almost half of company bosses in 45 countries said they were speeding up plans to automate their businesses. [17] Innovation always takes place most rapidly during a recession, when prices are low. With lockdown turning the home into the place of work, Microsoft could boast of having discovered a fresh way of reducing labour costs and extending absolute labour time as it announced “two years’ worth of digital transformation in two months”. As The Guardian reported at the end of April: “Bank branches were already closing in droves before the epidemic, but here is the perfect excuse to shut more. And that’s not all. The authors of an Oxford University study thought that by 2035 it would be possible to automate 86% of restaurant jobs, three-quarters of retail jobs, and 59% of recreation jobs. By unlucky coincidence, those are among the very industries hardest hit by an epidemic now demanding quantum leaps in efficiency if some companies are to avoid going under.” [18] But automation is abolishing the source of profit, ie, commodity-producing human labour. To be more precise, automation is the final expression of capitalism’s self-abolishing tendency. As Marx wrote in 1858: “As soon as labour in the direct form has ceased to be the great wellspring of wealth, labour time ceases and must cease to be its measure... Capital thus works towards its own dissolution as the form dominating production.” [19] But this dissolution does not happen in a seamless falling rate of profit towards zero, since – as explained, and as indicated by both zig-zagging profit rates and the recessions that tend to strike roughly every 10 years – capital does not accumulate harmoniously. As the Soviet Russian philosopher Genrikh Volkov wrote in 1967, increasing automation eventually leads to “the breakdown, instead of the consolidation, of the existing relations ... of the private ownership of the means of production…. Its consummation is incompatible with capitalism.” [20] In Capital, Marx anticipates an eventual “absolute overaccumulation” of capital. “The limit of capitalist production is the excess time of the labourers,” says Marx. [21] But stretching the rate of exploitation of the working class to anywhere near 100% is obviously impossible – for starters, capital cannot even afford to exploit an ever-increasing part of it, a surplus population that grows alongside surplus capital, while workers in the growing services sector are also relatively unproductive. “As the capitalist mode of production develops, an ever larger quantity of capital is required to employ the same, let alone an increased, amount of labour-power.” But there are other limits too: “As soon as capital would, therefore, have grown in such a ratio to the labouring population that neither the absolute working time supplied by this population, nor the relative surplus working time, could be expanded any further (this last would not be feasible at any rate in the case where the demand for labour were so strong that there were a tendency for wages to rise); at a point, therefore when the increased capital produced just as much, or even less, surplus value than it did before its increase, there would be absolute overproduction of capital.” [22] From zero interest rates to worldwide hyperinflation If the rate of profit is on course to hit zero around 2054, but the final breakdown is bound to happen much earlier than that, it at least becomes impossible to dismiss the theory that we are entering this uncharted territory right now. But empirically, there also seem to be several approaching economic limits or ‘tipping points’ which cannot be converging at the same time merely by coincidence. For starters, average GDP growth rates in what the World Bank defines as ‘high income countries’ are already closing in on zero, having fallen every decade for the past half century: from 5.59% in the 1960s, to 4.15% in the 1970s, 2.93% in the 1980s, 2.35% in the 1990s, and 1.78% in the 2000s. The figure rose slightly to 1.97% in the years 2010-2017, but this minor reprieve has already proven to be unsustainable. GDP in the imperialist nations, though, is inflated by the profits leached from the rest of the world, since much of the profit from each commodity goes towards the GDP of the nation in which it is sold, rather than where it was made. [23] Productivity growth in the high income countries has itself, since 2011, spluttered below 1%. Aggregate global debt (the total debt of governments, corporations and households), already mountainous before the Great Recession, has hit new heights, indicating record-high overaccumulation [24]. According to the IMF, global debt fell by 1.5% of GDP in 2017 compared to a year earlier, but remained more than 11 percentage points of GDP above the previous high in 2009. In June 2019, the IMF said global debt stood officially at $184 trillion, 225% of global GDP. This averages out at $86,000 for every person in the world, 2.5 times average annual per capita income. But according to financial analyst Ron Surz, once ‘off-the-books’ net obligations such as social security and health care are taken into account, official figures are understated by a factor of 2.5, making actual global debt $460 trillion, 560% of GDP and $215,000 per person (as of July 2019) [25]. He put the US figure not at the official 105%, but 390%. Even that is without taking into account the serious accounting problem in the US Department of Defense. In 2016, before Trump was elected, the department’s Inspector General said he could not properly track $6.5 trillion in defence spending. An academic study looking at the years 1998-2015 later put the figure at $21 trillion [26]. The US defence budget has ballooned to $748bn as the long-time imperialist superpower scrambles to hold on to its dying empire. Another financial analyst, Simon Thorpe, calculated in 2015 that global debt was 2.5 times higher than the global money supply (up from two times higher in 2013) [27]. This is despite the fact that the US’s monetary base exploded from $842bn in August 2008 to $2.9 trillion in January 2013 and then $4 trillion in August 2014. The sheer amount of debt is unsustainable since the tax base needed to pay it is obviously shrinking in relative terms. Though it has been socialised, it is now simply too large to work off. Something the capitalist state can do to ease the government’s ability to pay its debt is reduce interest rates, which also makes borrowing cheaper and stimulates lending, maintaining the circulation of money. But lifting the economy out of recession usually takes a 4-5% base interest rate cut. In the US and across Europe base rates are already at zero, having been cut by around only 2%. Central banks have said going negative would make the banks unviable. Therefore, it is highly probable – lockdown or no lockdown – that capitalism, as Pento says, is soon going to spiral for the first time in its history into a crisis of worldwide hyperinflation, since rates will have to start going back up to re-incentivise bond holding and sustain the tax base. But debt-to-GDP – already at record highs and rising – will surge, and so the tax base will continue to shrink; bondholders will realise that what they are owed cannot be repaid and increasingly transfer their funds into hard assets, especially precious metals. The only way to avoid hyperinflation is for states to default on their debt through hyperdeflation – which the record bailouts imply they are understandably trying to avoid – but that would happen after hyperinflation anyway. The US’s national annual deficit is now expected to soar from $984bn in 2019 to $3.8 trillion in 2020. The US has never meaningfully defaulted on its debt but, historically, countries that have failed to get their debt-to-GDP back below 90% have gone on to default, meaning they have had to go to the International Monetary Fund (IMF) for a bail out (usually in the form of high-interest loans and on the condition of privatising state assets). But given that the US dollar is the world’s reserve currency – all oil must be traded in US dollars, for example, making the solvency of all countries dependent on their ability to purchase US dollars – the IMF effectively is the US. The US dollar has lost more than 96% of its value, its purchasing power, since 1913. The figure is more than 99.5% for British pound sterling, compared to 1694, the year it was founded [28]. This is why negative rates would make the banks unviable – they would finish off the depreciation of fiat currency. Many countries, including Russia and China, have started diversifying their foreign currency reserves in the past few years, meaning the main source of financing US debt is disappearing. Even the biggest US bank, JP Morgan, told its clients in August 2019 to sell the dollar. The world economy will likely soon be without a reserve currency. While smaller economies have survived defaults through bailouts in the past, the US and western European countries are the richest and most developed in the world. They represent monopoly capitalism, or imperialism, the highest stage of capitalism. As mentioned, with their workforces now largely services-based, the imperialist nations have been largely living off of profit produced by the labour of commodity-producing workers in Africa, Asia and South America. If the imperialist economies collapse, it’s because the whole system has collapsed. Indeed, as of 7 March, investors had already pulled $83bn from developing markets, the largest capital outflow ever recorded, according to the Institute of International Finance. If all these converging factors – near-zero prices, flat productivity growth, unsustainably high debt, zero interest rates, exhausted currencies – do not constitute a final breakdown of the system, then what will?

#### Mounting dysfunction drives imperialism and inter-capitalist competition---risks nuclear war

Reese 20 - author of Socialism or Extinction and The End of Capitalism: The Thought of Henryk Grossman (Ted, <https://www.amazon.com/Socialism-Extinction-Automation-Capitalist-Breakdown-ebook/dp/B081FHF2ZQ>, emuse)

We have seen that the crisis is intensifying competition between the major imperialist and capitalist powers. The counter-tendencies have failed to prevent the onset of the next crisis. An even greater devaluation of capital and labour power is required. The death and destruction wrought by war is the ultimate source of devaluation and therefore the most important counter-tendency. If war wasn’t an inevitability under capitalism, militarism would be done away with since it is funded through taxation that could otherwise be put towards productive capital. Many Marxists have failed to grasp this. Luxemburg, for example, claimed that “from the purely economic point of view, militarism is a pre-eminent means for the realisation of surplus-value; it is in itself a sphere of accumulation”.[496] Again, her analysis was based on circulation, not production. Grossman counters that “this is how things may appear from the standpoint of individual capital as military supplies have always been the occasion for rapid enrichment. But from the standpoint of the total capital, militarism is a sphere of unproductive consumption. Instead of being saved, values are pulverised. Far from being a sphere of accumulation, militarism slows down accumulation. By means of indirect taxation a major share of the income of the working class which might have gone into the hands of the capitalists as surplus value is seized by the state and spent mainly for unproductive purposes.” On the other hand, though, apart from natural resources, the main resource the capitalists are fighting over in a war is human labour, enough of which is not available at home. What better way to decimate the wages of this new source of surplus value than through warfare? And as well as the destruction of capital value, innovation is accelerated by the arms race, leading to new use-values for the post- war civilian economy and furthering devaluation. Idealists claimed the fall of the Soviet Union would bring about a new era of world peace. The destruction of Yugoslavia, Iraq, Afghanistan, Somalia, Libya, Syria and Yemen since then shows both that they did not appreciate the nature of imperialism or the protection the Soviet Union afforded to countries threatened by imperialism. Who is next for daring to seek independence? Venezuela? Iran? Russia and China have been encircled by NATO in the biggest build- up of military forces since the Second World War. As the crisis of accumulation deepens, the size and frequency of wars tend to grow. In the wake of 9/11, the author Zoltan Grossman circulated a list, based on Congressional Records and The Library of Congress Congressional Research Service, of 133 US military interventions from 1890 to 2001. The average per year is 1.15 before, and 1.29 after, the Second World War. After the Cold War, from late 1989, the figure rises to 2.0. The Democrat Barack Obama replaced the gung-ho Republican warmonger George W Bush in 2008 promising ‘hope’ and ‘change’. But by the end of his second term in 2016, US special operators could be found in 70% – 138 – of the world’s nations, a huge jump of 130% since Bush left office. In 2016 alone, the Obama administration sanctioned the use of at least 26,171 bombs. “This means that every day last year, the US military blasted combatants or civilians overseas with 72 bombs; that’s three bombs every hour, 24 hours a day,” Medea Benjamin of the anti-war CodePink wrote in The Guardian.[500] In 2017, Trump – who in his April 2016 foreign policy speech said that “war and aggression will not be my first instinct” because he wanted to spend the money instead domestically to ‘make America great again’ – outstripped Obama’s 2016 figure by 9,000. Given that many of these wars are fought in an alliance of the imperialist powers, mainly through NATO, much analysis on the Left makes the mistake of thinking that inter-imperialist rivalry no longer exists. This follows on from Kautsky who, because he did not see war as arising from economic necessity, came up with a theory of “ultra- imperialism” whereby the imperialists would realise that it was not in their interests to continue the First World War and would therefore unite to “peaceably redivide the world". Something like this – to a limited extent – did temporarily emerge, but only after the Second World War, only in collective opposition to the Soviet Union, and during a period in which capitalism was recovering in the wake of the war’s devaluation of capital, meaning competition had temporarily diminished. But the barbaric aggression of the wars on the Middle East is symptomatic of deepening capitalist crisis and intensifying rivalry. Through their opposition to the 2003 war on Iraq, France and Germany showed that they are not subordinate to US interests. In the 1990s, TotalFinaElf, France’s huge oil firm, secured the contract to develop Iraq’s southern Majnoon and Nahr Umar oil fields, containing as much as 25% of the country's reserves. German firms were the market leaders in supplying sensitive dual-use technology to Iraq in the years before the 1991 Persian Gulf war, and they had been bidding for more civilian commercial contracts. Khidir Hamza, an Iraqi defector, called Germany “the hub of Iraq's military purchases in the 1980s”. France and Germany did not want new competition. Between the start of 2002 to March 2003 the dollar fell by 20% against the euro. The US had to respond to this: its international economic domination is bound up with the dollar’s strength as the world’s currency anchor. The dollar’s dominance as the main currency for foreign exchange enables it to blackmail countries that do not yield to its demands. Ultimately, the strength of a currency reflects the productivity and size of the economy behind it. Trump’s administration has claimed that Germany is using its currency to “exploit” both its neighbours and the US, sparking fears of a currency war. The US made the desperate accusation that Germany is “under-consuming” goods and services from other countries. At the 2010 G20 summit in Seoul, the US made an unsuccessful attempt to limit the size of current account surpluses to 4% of GDP. Germany’s surplus overtook China’s in absolute size in 2017 and as a share of GDP became much larger. The IMF put Germany’s 2017 surplus as 8.1% of GDP and China’s at 1.6%. The EU’s surplus as a whole in 2017 was $387.1bn. In contrast, the US current account deficit was $462bn in 2017, bigger only than Britain’s $91.4bn. The deficit was 2.5% of GDP in the first quarter, up from 2.4% in the fourth quarter. Bush warned that the US would “neither forgive nor forget” if France continued to oppose the war on Iraq. US Secretary of State Donald Rumsfeld accused Austria of blocking US troop movements from Germany to Italy and said the US was considering bringing home 100,000 troops stationed in Europe (70,000 in Germany) or relocating them to Eastern Europe. He threatened sanctions for “one reason only: to harm the German economy”. At the time, the US controlled 31.5% of world output to the EU’s 26%. However in 2004 ten additional countries were scheduled to join the 15 EU member states, a combination that would match the size of the US’s economy and exceed its population. FRFI – one of the few left-wing publications in Britain to anticipate the potential for conflict between the US and EU – reported in 2003 that total EU FDI already amounted to 52.5% of the world total, nearly 2.5 times that of the US. Over the period 1980-2001, the US share of the global total has halved. The massive rise in the US’s military spending has been necessitated by the need to reverse the decline of its economic dominance – to reiterate, if it doesn’t reverse this it won’t be able to valorise its capital. The Department of Defense’s base budget grew by 31% between 2000 and 2014. An $82bn hike to $716bn in 2018 represented an increase that by itself was larger than the entire defence budget of every country on earth, save China. Trump called the Defense Department’s annual budget “crazy” and proposed a 5% cut, but then committed to a $750bn budget for 2019. Who is really in charge? US military spending is at least 10 times the size of Russia’s, and four times the size of China’s. This is the same Department of Defense with a serious existing accounting problem. In 2016, before Trump was elected, the department’s Inspector General said he could not properly track $6.5 trillion in defence spending. An academic study looking at the years 1998-2015 later put the figure at $21 trillion. Clearly this is unsustainable. As Engels says, “the triumph of force is based on the production of arms, and this in turn on production in general”. US manufacturing output in the 1960s, at the time of the Vietnam War, constituted 27% of the economy and provided 24% of employment. In 2003 manufacturing amounted to 13.8% of its GDP, falling to 12.5% in 2015, and 10.5% of employment, falling to 8.8% in 2013. The US industrial base is shrinking and with it the manufacturing and engineering capacity to achieve military domination of the world. In November 2004 Le Monde Diplomatique reported that, “Some new (EU) states are large arms producers and exporters. The EU is now home to more than 400 companies in 23 countries manufacturing small arms and light weapons – hardly less than the US.” China’s manufacturing sector is now almost as large as those of the US, Japan and Germany combined. When the US invaded Iraq in 2003 its military expenditure was almost $400bn; Iraq’s was $1.4bn, 0.35% of the US’s. In violation of the Iraqi constitution and international law the US-UK Coalition Provisional Authority (CPA) “laid off hundreds of thousands of Iraqi workers, virtually eliminated trade tariffs and enacted laws that radically alter Iraq’s economy. Order 39, decreed by CPA head Paul Bremer on September 20 2003, abolished Iraq's ban on foreign investment, allowing foreigners to own up to 100% of all sectors except natural resources. Over 200 state-owned enterprises, including electricity, telecommunications and pharmaceuticals have been privatised. Iraq's highest tax rate has been lowered from 45% to a flat rate of 15%. Although foreign ownership of land remains illegal, companies or individuals will be allowed to lease properties for up to 40 years.” The extraction of Iraq’s oil was also illegal. In 2011 government documents leaked to The Independent revealed that in November 2002, five months before the invasion, the UK Foreign Office invited BP to talks about opportunities in Iraq “post regime change”. Labour’s Baroness Symons, the then Trade Minister, promised BP that she would lobby the Bush administration because the oil giant feared it was being “locked out” of deals that Washington was quietly negotiating with the French and Russian governments and their energy firms. Control over territory, oil and oil transhipment routes is of paramount importance. With around 60% of the world’s oil reserves, the Middle East has been the key battleground. But this rivalry is playing out all over the world, in South America, Asia, Africa and, since the fall of the USSR, central and eastern Europe, which was identified by the UNCTAD World Investment Report 2002 as “a stable and promising region for FDI”. China, whose contribution to global GDP was expected to eclipse that of the US in 2018, is a particular concern to the traditional powers because its strategy of offering low- or even interest-free loans in exchange for fixed-price sales of primary commodities makes it a more attractive business partner to underdeveloped countries who have been bled dry by high interest loans from the IMF. The US only has intimidation and force left to offer in response. In 2008, for example, the Democratic Republic of the Congo (DRC) reached a deal with China for roads, railways, clinics, hospitals, schools and two new universities worth $6bn. In exchange, China was given the right to extract 12 million tonnes of copper and cobalt over 25 years. In 2004, when Angola was reluctant to accept the terms of an IMF loan, China stepped in with a no-strings-attached $2bn. An Angolan minister said relations with China “not only allowed us to obtain large loans, but most importantly it forced the West to treat us with more respect”. China has overtaken Britain, France and the US as a trading partner with Africa. In 2017, China’s trade with Africa was worth $170bn, four-times larger than US-Africa trade. China invested $125bn in Africa in the decade to 2016 and committed to $60bn more over the next three years. In 2017 China’s trade with Latin America reached $244bn, again exceeding that of the US. China’s dominance in manufacturing has forced Latin American countries to deindustrialise somewhat and focus on producing primary commodities; but China’s investments have also had the effect of strengthening their currencies relative to the dollar. In July 2016, the RAND Corporation think tank warned that, whereas the US would have been capable of achieving a quick and decisive victory with minimal losses in a war with China in 2015, China’s improving anti-access and area-denial (A2AD) capabilities meant that a war in 2025 would instead be “prolonged and destructive, yet inconclusive”. The earlier part of that prediction seemed optimistic, given that the US became bogged down in the face of resistance in Iraq and Afghanistan for years when it expected quick, decisive victories in both, against forces inferior to China’s. Indeed, in March 2019 a RAND analyst said that its war game simulations showed that “when we fight Russia and China, blue gets its ass handed to it”. He said it would cost an extra $24bn a year to turn things around. Chinese and Russian opposition to US deployments of anti-missile systems in Asia has resulted in their greater military cooperation. However, Russia is using its position in the Shanghai Cooperation Organisation (SCO) to try and contain Chinese economic expansion in Central Asia, where it has regional ambitions of its own. As Trevor Rayne wrote in FRFI: “The US turns to alliances with Japan, India, the Philippines and Australia to confront China, but China offers them investments and better trade deals. If it has to the US ruling class will resort to military force to prevent China ejecting it from its dominant position in the world. Competition between the imperialist powers may be limited to geopolitical manoeuvring, ideological and cyber warfare and negotiation table diplomacy for now, but that cannot last forever. At some point the capitalist crisis will become so deep that the imperialist powers will be forced into direct confrontation with each other. The overaccumulation of capital will have become so great that the only way to sufficiently devalue capital and labour power will be through global conflagration. This tendency expresses itself in increasing competition between the imperialist powers as they vie to attain dominance – that is, to apportion losses to one another, to seize each other’s capital and resources by any means. This is what happened in the 20th century. Two world wars, the Great Depression and fascism were the counter-tendencies and crisis measures required over a span of 41 years to keep the accumulation process going and eventually revive it to a healthy enough level to restore political stability. Kautsky – because he believed accumulation was harmonious – claimed that absolute capitalist breakdown would be brought about inevitably by world war, which in his view would happen only because of uncivilised ruling classes.[513] On the other side of the same coin, Bukharin and Varga believed the Second World War would bring about the completion of the world revolution. This perhaps partly explains some of the controversial decisions taken by the Communist International after 1929, when it effectively ordered its national sections in Europe to take social democratic routes to socialism.[514] Grossman says: “It would be useless to search Bukharin for any other cause of the breakdown of capitalism than the ravages created by war.... If like Bukharin, we expect the breakdown of capitalism to flow from a second round of imperialist wars, then it is necessary to point out that wars are not peculiar to the imperialist stage of capitalism. They stem from the essence of capitalism as such, during all its stages, and have been a constant symptom of capital since its historical inception.... far from being a threat to capitalism, wars are a means of prolonging the existence of the capitalist system as a whole.” Grossman was at pains to show that Kautsky’s was a subjective analysis and that the opposite was true: that massive overaccumulation brought about a systemic breakdown and world war followed necessarily because it was the only way to sufficiently devalue capital, to “ward off imminent collapse” and “create a breathing space” for accumulation to restart. Grossman cites the figure from Wladimir Woytinsky’s 1925 book The World In Numbers that “around 35% of the wealth of mankind was destroyed and squandered in the four years” of the First World War, which had been preceded by a worldwide Long Depression – like the one we’re experiencing now – a series of economic ‘panics’ in the US, and intensifying inter-imperialist rivalries over trade routes and colonial territories. By the end of the war, says Grossman, the mass of living labour “confronted a reduced capital, and this created new scope for accumulation”. And yet it wasn’t enough – the 1929 Wall Street Crash followed, “a continuation of the unresolved economic crisis preceding World War One”, as Mattick says.[519] The New Deal attempted to resolve the crisis in the US and fascism attempted to resolve it in Germany (the equivalent of a New Deal in Germany through the SPD’s reforms having already failed before 1929). Neither worked. It would take an even more destructive global war to end the depression. This after Kautsky had claimed in 1927 that capitalism stood, “from a purely economic point of view, stronger than ever”.[520] The First World War – “legalised slaughter” in the apt words of Harry Patch, the last surviving combat soldier of that war from any country – killed 37 million people. The Second World War killed between 70 million and 85 million, 3% of the 1940 world population of an estimated 2.3 billion. The equivalent today from a world population of 7.53 billion would be 226 million. But given that today’s total accumulation and overaccumulation are considerably greater than before World War Two, it follows that it would take a considerably greater level of destruction to – again, temporarily – resolve the crisis. Given that and the fact that every major war following economic breakdown is decided only by total war (the US Civil War, the Peninsular War and the Crimean War being other prime examples), it could be argued that the amount of destruction required is so high now that today’s deepening crisis may at some point necessitate nothing short of a nuclear exchange between the imperialist powers. The Second World War ended with the US dropping the A-bomb on Japan, after all. If World War Three was not sufficiently destructive, then a bigger crisis would follow necessitating World War Four, just as World War Two followed World War One. And of course a Fourth World War would be necessitated at some point anyway. This is all assuming that the crisis that preceded a World War Three wasn’t the final breakdown, the absolute historical limit of capital accumulation. If it were then no amount of destruction could save capitalism. As we said earlier, this is surely now the case – there can be no 1945 productivity boom that breathes another century of life into the system, for automation has already all but abolished the law of value. The current arms race is in fact already accelerating the development of automation and therefore the rate of profit’s historical fall towards zero. We therefore assert that – aside from the fact that a world war today would end life on Earth and destroy the climate for good – even a world war cannot save capitalism this time. Rather than trying to destroy itself in order to renew itself this time, capitalism is now preparing to either destroy or wind itself up for good. Trade wars will continue to intensify. Protectionism becomes an increasingly inevitable reflex as nations attempt to defend domestic and overseas assets; combined with stagnant productivity, this tends to manifest politically in a parochial, ‘anti-globalisation’ nationalism, ie right-wing populism or proto-fascism, as capitalists which rely more on the domestic market – determining their conservatism – finally gain the upper-hand over the more liberal exporting sectors, only to deepen the overall economic crisis by making trade increasingly expensive and centralising capital into yet fewer hands. As Michael Pettis wrote in the FT in 2009, the fact that “nearly everyone agrees that a world that retreats into direct and indirect forms of trade protection is a world that is worse off... should not allay our worries. In the 1930s, it was also well understood that the crisis would be exacerbated by plunging international trade. This did not stop a descent into the protectionism which put the ‘Great’ into the Great Depression.” In February 2019, a senior European Commission economist warned that a Third World War is an increasingly “high probability” due to the “disintegration of global capitalism”.[523] Professor Hanappi, Jean Monnet Chair for Political Economy of European Integration , noted that the emerging trade wars, massive growth of military spending and return of ‘populism’ bear unnerving similarities with trends that beset the world before the outbreak of the first two world wars. Marx wrote that as soon as capital feels itself threatened it will “seek refuge in other forms”, which appear to perfect its rule as capital “through curbs on free competition”; although the curbs on competition “appear to complete the mastery of capital, they are at the same time, by curbing free competition, the heralds of its dissolution, and of the dissolution of the mode of production based on it”.[524] This applies to both the monopolistic stage of capitalism and the inevitability of protectionism. As mentioned, in 2015-16, the G20 economies introduced a record number of trade-restrictive measures. Globalisation was in retreat before Brexit and Trump, because its ability to expand capital is increasingly exhausted. Just as protectionism and trade wars were precursors of the first two world wars, Brexit and Trump’s trade wars threaten to be precursors of a Third World War. Just as the first two world wars were fought between the biggest imperialist rivals, so would a third. That would mean a conflict between the US and its strongest competitor, the German-led EU. On 6 November 2018 France President Emmanuel Macron called for the creation of a “true European army” so that the EU could defend itself from “China, Russia and even the United States of America”, adding: “When I see President Trump announcing that he’s quitting a major disarmament treaty[525] which was formed after the 1980s Euro-missile crisis that hit Europe, who is the main victim? Europe and its security.” Germany already provides the most troops for the UN’s so-called peacekeeping missions. Building on the Permanent Structured Cooperation on security and defense (PESCO) agreement – which allows co-operation on joint military projects for 25 EU member states, established through the Lisbon Treaty in December 2017 – the European Commission provisionally agreed the founding of a €13bn European Defence Fund (EDF) in February. This is to allow joint R&D projects for European companies. Though no formal agreement is to come into effect until November 2019, it is already known that the fund will exclude both post-Brexit Britain and the US. In response the US complained that the moves undermine the NATO alliance and threatened sanctions on EU firms if either project goes ahead. The EU told the the US not to concern itself with Europe's defence plans. In December 2019 Macron said NATO was already “brain dead”, because “you have no co-ordination of decision-making whatsoever between the US and its NATO allies”. In reality, Europe is still reliant upon the US in military matters, a point made clear by, for example, the dominance of US firms in international contracts or the US’s role in NATO. Accordingly, the EU is, to some degree, split upon the US’s INF withdrawal, with key US allies Britain and Poland offering their unwavering support for the move. While disagreement in Europe over the Treaty itself is small, this reflects broader splits within the EU imperialist bloc, more evident in regard to trade and inter-European political discussions. More significantly in military terms, the US’s dominance over Europe’s military capacity means that Europe requires both time and new alliances if it is to stand on its own feet. Europe is now waking up to this. In July, Macron announced that France would build “a large space command within the Air Force, which will eventually become the Air and Space Force... to better protect our satellites, including in an active way”. Analysts called the move a switch from a defensive to an offensive posture. Macron's proposal follows similar moves by the US, China and Russia in recent years. In 2018, Trump ordered the formation of a sixth branch of the US’s armed forces – a "space force”. Europe's imperialists may have once hoped that the end of Trump's Presidency could see a reconciliation with the US bourgeoisie on more advantageous terms, but such hopes seem to be nothing but a fantasy. On 13 November 2018, a bipartisan panel for the US Congress issued a report stating its approval of the Trump administration's pursuit of “great power competition”. In March 2019, Nicole Gibson, Deputy Director of the US State Department’s office for Europe, warned that European companies would “risk significant sanctions” if they resume laying pipe for the Nord Stream 2 (NS2) natural gas pipeline running from Russia to Germany. Construction work was suspended in the December because of winter weather. The deal has infuriated the US because it undermines the potential for its energy giants to export surplus shale gas to Europe as liquified natural gas (LNG). Furthermore, US clients in central Europe are also set to lose out. Snaking under the Baltic Sea, NS2 replaces an older pipeline, stripping Ukraine of gas transit fees worth $2.5bn a year, 4% of its GDP. Ukraine president Petro Poroshenko[526] fears NS2 would allow Russia to switch off gas to Ukraine and Central Europe to blackmail its nearer neighbours without disrupting supplies to Western Europe, enabling the Kremlin to exert greater political influence. Russia supplies more than one-third of the natural gas Europe uses, a figure that is expected to reach nearly 50% in the next decade. German businesses say NS2 will slash their energy costs. German Chancellor Angela Merkel has said that “geostrategically, Europe cannot have an interest in cutting off all relations with Russia”. In 2017 she said that “the times in which we could completely depend on [the US and Britain] are, to a certain extent, over. We Europeans truly have to take our fate into our own hands.” With the relative decline of the US and Britain’s pending departure from the EU, Germany either sees an opportunity to become dominant or the need to find more reliable allies. It may see an alliance with Russia as an extension of European imperialism, and as a replacement for Britain, which itself has reportedly sought to spread misinformation in Europe in an attempt to weaken relations between Germany and Russia.[527] Turkey too, a long time client state of the US, appears to be forming a new alliance with Russia and Germany. In June 2019, the EU and Russia started talks on transitioning to using the rouble and euro in bilateral payments instead of the US dollar. China and Turkey are also investing heavily in the euro. The US is gradually being isolated and the grip on the world economy that the dollar as the world currency anchor gives the US is slipping. In the same week, it emerged that the US had been stepping up its ability to wage a cyberwar on Russia’s power grid, something it had deployed against Venezuela several times, depriving hospitals, factories and residential areas of electricity, earlier in the year. These cyber attacks are acts of war by the US’s own definition. A similar situation is developing with regards to Iran.[528] When Trump pulled the US out of the 2013 Iran nuclear deal, in which Iran agreed to roll back parts of its nuclear programme in exchange for relief from sanctions, Germany, France and even, to the chagrin of the US, Britain – all desperate for outlets for profitable investment – denounced the move and vowed to find ways to circumvent the US ban on trading with Iran, which applies to third parties. In July Russia expressed interest in the EU’s proposed Instrument in Support of Trade Exchanges (INSTEX) mechanism, backing Iran’s demand that it would have to include the oil trade. Significantly, this would see the EU violating US sanctions on two fronts. Trump claims he is trying to stop a nuclear arms race in the Middle East but he is really motivated by competition. In March 2019, Miguel Berger, the Director-General for Economic Affairs and Sustainable Development at Germany’s Federal Foreign Office, complained that, while everyone else was banned from trading with Iran, US trade with Iran in 2018 had in fact doubled. The US says it wants a new deal that curbs Iran’s ballistic missile programme and ends Iran’s supposed influence in Syria, Iraq and Yemen, the latter in which it is accused of backing the anti-imperialist Houthi movement. But it also wants to control Iran’s oil. The US’s increasingly belligerent client-states Israel and Saudi Arabia see Iran as a threat to their regional dominance and welcomed Trump’s move. [529] In May 2019 Trump warned Iran of “severe consequences” as the US, joined by Britain, began to build up naval and air power in the Persian Gulf. Fears of military conflict grew after Trump blamed Iran for Houthi attacks on tankers in the Gulf of Oman. While Britain – which, in a blatant act of piracy at the request of the US, later seized an Iranian oil tanker bound for Syria – sided with the US, the EU demanded an independent inquiry. Japan, which had a tanker involved in the controversy, also questioned the veracity of the US’s account. The same week, Iran shot down a US drone. Trump claimed that he called off a retaliatory airstrike at the last minute, instead imposing further suffocating sanctions and launching a cyberattack on Iran’s defence infrastructure. Sanctions have resulted in inflation in Iran of 40% and the IMF predicted a 6% contraction in its economy. Iran said it would have to develop its uranium enrichment levels if Europe did not do more shield Iran from sanctions.[530] Iran could be the spark that ignites conflict between the US and Europe.[531] Meanwhile, Saudi Arabia’s US-UK-backed war on Yemen has resulted, after four years, in what the UN called the world’s worst humanitarian crisis; and rising tensions between India and Pakistan at the beginning of 2019 threaten to spill over into a full-scale war, with the US generally backing the former and China the latter. Pakistan has taken out billions of dollars in loans from China in recent years as part of Beijing's Belt and Road Initiative (BRI), an ambitious trade and infrastructure network connecting China to Europe, Africa, Southeast Asia and other regions. China has pledged to provide economic assistance to Pakistan, which has been bailed out by high- interest IMF loans some 14 times since 1980. The task of communists As we have said, Leninists have long predicted that these deepening splits would emerge. They have been proven correct, and the defeatist pseudo-Marxist theories of ‘ultra-imperialism’ – that the imperialist powers in fact form an unshakeable alliance – have been proven wrong. Existing divisions in NATO have been widening since the election of Trump, who has been unsurprisingly delighted by Brexit and its destabilising effect on the EU. Denouncing the EU’s “treatment” of Britain in the negotiations, Trump said at the start of April 2019 that “the EU is likewise a brutal trading partner with the US, which will change”. On 9 April he said the US planned to impose tariffs of $11bn (£8.4bn) on EU goods, partly because “EU subsidies to Airbus have adversely impacted the US”.[532] He must have known what was coming: on 10 April the EU and China announced a very significant trade deal in which they vowed, in a thinly veiled rebuke to the US, “to fight against unilateralism and protectionism”. China and Germany are now engaged in concrete military co-operation, with China deploying armoured vehicles on German soil for joint drills on 11 July, something that has been unthinkable until now.[533] At the same time, the potential for realignment with the US is also contained within the German approach. For example, the nation is considering sending a warship through the Taiwan Strait, escalating tensions with China and easing them with the US. As Trump is so fond of saying, “all options are on the table”. France has vowed to retaliate tit-for-tat against US sanctions. In Tony Kennedy’s foreword to the abridged 1992 English reprint of Grossman’s book, he says: “For Grossman, re-presenting Marx’s theory was no mere academic exercise. Nor was he concerned merely with describing tendencies towards periodic economic crises, of a more or less restricted character, nor even with trends towards more systematic and global recessions. He aimed to show that the essence of Marx’s analysis of capitalist society was the identification of the inexorable tendency towards breakdown as the fundamental characteristic of the social system as a whole.... Grossman contended that the socialist movement’s commitment to the overthrow of capitalism required theoretical proof of the system’s tendency towards breakdown.” This is now the task facing communists today. The first appeal that the Communist International made in 1920 to the international working class was to “Remember the imperialist war!”, warning that the repetition of such destructive wars, when the workers of different countries are coerced by the ruling classes to “cut each other’s throats” is not only possible but inevitable if capitalism is not overthrown.[536] The First World War confirmed what was written in the statutes of the First International, that the emancipation of the working class is not a local, nor a national, but an international question. And given that national bourgeoisies are inevitably pitted against each other in a world war, it follows that the only class that is capable of solidarity internationally is the working class. Nation-states will either respond to the looming crash as it deepens by cutting military expenditure drastically or waging war in a bid to offset economic losses – or perhaps by doing both. We are being haunted by the failure to turn the breakdowns that precipitated the first two world wars into the world revolution that Lenin expected to follow on the heels of the one he led in Russia. Only world socialism can ensure humanity’s survival.

#### **Capitalist crises fuel the rise of fascism---hypernationalism greatly increases the odds of conflict**

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In the broader picture, fascism, whether in its 20th- or 21st-century variant, is a particular, far right response to capitalist crisis, such as that of the 1930s and the one that began with the financial meltdown of 2008 and has now been greatly intensified by the pandemic. Trumpism in the United States; Brexit in the United Kingdom; the increasing influence of neo-fascist and authoritarian parties and movements throughout Europe (including Poland, Germany, Hungary, Austria, Italy, the Netherlands, Denmark, France, Belgium and Greece), and around the world (such as in Israel, Turkey, the Philippines, Brazil and India), represent just such a far-right response to the crisis. Trumpism and Fascism The telltale signs of the fascist threat in the United States are in plain sight. Fascist movements expanded rapidly since the turn of the century in civil society and in the political system through the right wing of the Republican Party. Trump proved to be a charismatic figure able to galvanize and embolden disparate neo-fascist forces, from white supremacists, white nationalists, militia, neo-Nazis and Klansmen, to the Oath Keepers, the Patriot Movement, Christian fundamentalists, and anti-immigrant vigilante groups. Since 2016, numerous other groups have emerged, from the Proud Boys and QAnon to the Boogaloo movement (whose explicit goal is to spark a civil war) and the terrorist Michigan group known as Wolverine Watchmen. They are heavily armed and mobilizing for confrontation in near-perfect consort with the extreme right wing of the Republican Party, which long since has captured that party and turned it into one of utter reaction. Encouraged by Trump’s imperial bravado, his populist and nationalist rhetoric, and his openly racist discourse, predicated in part on whipping up anti-immigrant, anti-Muslim and anti-Black sentiment, they began to cross-pollinate to a degree not seen in decades as they gained a toehold in the Trump White House and in state and local governments around the country. Paramilitarism spread within many of these organizations and overlapped with state repressive agencies. Racist, far right and fascist militia, identified by the FBI and the Department of Homeland Security as the most lethal domestic terrorist threat, [operate inside law enforcement agencies](https://www.brennancenter.org/our-work/research-reports/hidden-plain-sight-racism-white-supremacy-and-far-right-militancy-law). As far back as 2006, a [government intelligence assessment](http://s3.documentcloud.org/documents/402521/doc-26-white-supremacist-infiltration.pdf) had warned of “white supremacist infiltration of law enforcement by organized groups and by self-initiated infiltration by law enforcement personnel sympathetic to white supremacist causes.” The fascist insurgency reached a feverish pitch in the wake of the mass protests sparked by the police-perpetrated murder of George Floyd in May. Among recent incidents too numerous to list, fascist militia members have routinely showed up heavily armed at anti-racist rallies to threaten protesters, and in several instances, have carried out assassinations. Trump has refused to condemn the armed right-wing insurgency. To the contrary, he [defended a self-described vigilante and “Blue Lives Matter” enthusiast](https://www.npr.org/sections/live-updates-protests-for-racial-justice/2020/08/31/908137377/trump-defends-kenosha-shooting-suspect) who shot to death two unarmed protesters in Kenosha, Wisconsin, on August 25. On September 3, federal marshals carried out an extra-judicial execution of [Michael Reinoehl](https://truthout.org/articles/trump-appears-to-admit-extrajudicial-killing-of-michael-reinoehl-was-planned/), who admitted to shooting a few days earlier a member of the white supremacist group Patriot Prayer during a confrontation between Trump supporters and counterprotesters in Portland, Oregon. “There has to be [retribution](https://www.vox.com/2020/9/14/21436216/trump-michael-reinoehl-protests-portland-shooting),” declared Trump in a chilling interview in which he seemed to take credit for what amounted to a death squad execution. Particularly ominous was the plot by a domestic terrorist militia group, broken up on October 8, to storm the Michigan state capitol to kidnap and possibly kill the Democratic governor of Michigan and other officials, a conspiracy that the White House refused to condemn. While there are great differences between [20th- and 21st-century fascism](http://robinson.faculty.soc.ucsb.edu/Assets/pdf/FascismbeyondTrump.pdf) and any parallels should not be exaggerated, we would do well to recall the 1923 [“beer hall putsch”](https://www.britannica.com/event/Beer-Hall-Putsch/The-Munich-Putsch) in Bavaria, Germany, which marked a turning point in the Nazis’ rise to power. In that incident, Hitler and a heavily armed group of his followers hatched a plot to kidnap leaders of the Bavarian government. Loyal government officials put down the putsch and jailed Hitler but the fascist insurgency expanded in its aftermath. The fascist putsch now hinges on the November election. The rule of law is breaking down. Trump has claimed, without any credible evidence, that the vote will be fraudulent, has refused to commit to a peaceful transfer of power should he lose, and has all but called on his supporters to be prepared for an insurrection. Himself a [transnational capitalist](http://robinson.faculty.soc.ucsb.edu/Assets/pdf/TheTransnationalCapitalistClass.pdf), a racist and a fascist, Trump took advantage of the protests over the murder of George Floyd to bring the project to a new level, inciting from the White House itself the fascist mobilization in U.S. civil society, manipulating fear and a racist backlash with his “law and order” discourse, and threatening a qualitative escalation of the police state. Widespread and systematic voter suppression, especially of those from marginalized communities, has already [disenfranchised](https://www.theguardian.com/us-news/2020/aug/07/americans-voting-rights-disenfranchisement) millions. Donald Trump Jr. [called in September for](https://www.independent.co.uk/news/world/americas/us-election/donald-trump-jr-video-2020-election-ballot-fraud-b605186.html) “every able-bodied man and woman to join an army for Trump’s election security operation.” Morphology of the Fascist Project The current crisis of global capitalism is both structural and political. Politically, capitalist states face spiraling crises of legitimacy after decades of hardship and social decay wrought by neoliberalism, aggravated now by these states’ inability to manage the health emergency and the economic collapse. The level of global social polarization and [inequality is unprecedented](https://oi-files-d8-prod.s3.eu-west-2.amazonaws.com/s3fs-public/file_attachments/ib-wealth-having-all-wanting-more-190115-en.pdf). The richest 1 percent of humanity control more than half of the world’s wealth while the bottom 80 percent had to make do with just 5 percent of this wealth. Such extreme inequalities can only be sustained by extreme levels of state and private violence that lend themselves to fascist political projects. Structurally, the global economy is mired in a crisis of overaccumulation, or chronic stagnation, made much worse by the pandemic. As inequalities escalate, the system churns out more and more wealth that the mass of working people cannot actually consume. As a result, the global market cannot absorb the output of the global economy. The transnational capitalist class cannot find outlets to “unload” the trillions of dollars it has accumulated. In recent years, it has turned to mind-boggling levels of financial speculation, to the raiding and sacking of public budgets, and to militarized accumulation or accumulation by repression. This refers to how accumulation of capital comes increasingly to rely on transnational systems of social control, repression and warfare, as [the global police state](https://www.plutobooks.com/9780745341644/the-global-police-state/) expands to defend the global war economy from rebellions from below. Fascism seeks to rescue capitalism from this organic crisis; that is, to violently restore capital accumulation, establish new forms of state legitimacy and suppress threats from below unencumbered by democratic constraints. The project involves a fusion of repressive and reactionary state power with a fascist mobilization in civil society. Twenty-first-century fascism, like its 20th-century predecessor, is a violently toxic mix of reactionary nationalism and racism. Its discursive and ideological repertoire involves extreme nationalism and the promise of national regeneration, xenophobia, doctrines of race/culture supremacy alongside a violent racist mobilization, martial masculinity, militarization of civic and political life, and the normalization — even glorification — of war, social violence and domination. As with its 20th-century predecessor, the 21st-century fascist project hinges on the psychosocial mechanism of dispersing mass fear and anxiety at a time of acute capitalist crisis toward scapegoated communities, whether Jews in Nazi Germany, immigrants in the United States, or Muslims and lower castes in India, and also on to an external enemy, such as communism during the Cold War, or China and Russia currently. It seeks to organize a mass social base with the promise to restore stability and security to those destabilized by capitalist crises. Fascist organizers appeal to the same social base of those millions who have been devastated by neoliberal austerity, impoverishment, precarious employment and relegation to the ranks of surplus labor, all greatly aggravated by the pandemic. As popular discontent has spread, far right and neo-fascist mobilization play a critical role in the effort by dominant groups to channel this discontent away from a critique of global capitalism and toward support for the transnational capitalist class agenda dressed in populist rhetoric. The fascist appeal is directed in particular to historically privileged sectors of the global working class, such as white workers in the Global North and urban middle layers in the Global South, that are experiencing heightened insecurity and the specter of downward mobility and socioeconomic destabilization. The flip side of targeting certain disaffected sectors is the violent control and suppression of other sectors — which, in the United States, come disproportionately from the ranks of surplus labor, communities that face racial and ethnic oppression, or religious and other forms of persecution. The mechanisms of coercive exclusion include mass incarceration and the spread of prison-industrial complexes; anti-immigrant legislation and deportation regimes; the manipulation of space in new ways so that both gated communities and ghettos are controlled by armies of private security guards and technologically advanced surveillance systems; ubiquitous, often paramilitarized policing; “non-lethal” crowd control methods; and mobilization of the culture industries and state ideological apparatuses to dehumanize victims of global capitalism as dangerous, depraved and culturally degenerate. Racism and Competing Interpretations of the Crisis We cannot under-emphasize the role of racism for the fascist mobilization in the United States. But we need to deepen our analysis of it. The U.S. political system and the dominant groups face a crisis of hegemony and legitimacy. This has involved the breakdown of the white racist historic bloc that to one extent or another reigned supreme from the end of post-Civil War reconstruction to the late 20th century but has become destabilized through capitalist globalization. The far right and neo-fascists are attempting to reconstruct such a bloc, in which “national” identity becomes “white identity” as a stand-in (that is, a code) for a racist mobilization against perceived sources of anxiety and insecurity. Yet many white members of the working class have been experiencing social and economic destabilization, downward mobility, heightened insecurity, an uncertain future and accelerated precariatization — that is, ever more precarious work and life conditions. This sector has historically enjoyed the ethnic-racial privileges that come from white supremacy vis-à-vis other sectors of the working class, but it has been losing these privileges in the face of capitalist globalization. The escalation of veiled and also openly racist discourse from above is aimed at ushering the members of this white working-class sector into a racist and a neo-fascist understanding of their condition. Racism and the appeal to fascism offer workers from the dominant racial or ethnic group an imaginary solution to real contradictions; recognition of the existence of suffering and oppression, even though its solution is a false one. The parties and movements associated with such projects have put forth a racist discourse, less coded and less mediated than that of mainstream politicians, targeting the racially oppressed, ethnic or religious minorities, immigrants and refugees in particular as scapegoats. Yet in this age of globalized capitalism, there is little possibility in the United States or elsewhere of providing such benefits, so that the “wages of fascism” now appear to be entirely psychological. The ideology of 21st-century fascism rests on irrationality — a promise to deliver security and restore stability that is emotive, not rational. It is a project that does not and need not distinguish between the truth and the lie. The Trump regime’s public discourse of populism and nationalism, for example, bears no relation to its actual policies. Trumponomics involves a sweeping deregulation of capital, slashing social spending, dismantling what remains of the welfare state, privatization, tax breaks to corporations and the rich, anti-worker laws, and an expansion of state subsidies to capital — in short, radical neoliberalism. Trump’s populism has no policy substance. It is almost entirely symbolic — hence the significance of his fanatical “build the wall” and similar rhetoric, symbolically essential to sustain a social base for which the state can provide little or no material bribe. This also helps to explain the increasing desperation in Trump’s bravado as the election approaches. But here is the clincher: Deteriorating socioeconomic conditions and rising insecurity do not automatically lead to racist or fascist backlash. A racist/fascist interpretation of these conditions must be mediated by political agents and state agencies. Trumpism represents just such a mediation. To beat back the threat of fascism, popular resistance forces must put forward an alternative interpretation of the crisis, involving a social justice agenda founded on a working-class politics that can win over the would-be social base of fascism. This would-be base is made up of a majority of workers who are experiencing the same deleterious effects of global capitalism in crisis as the entire working class. We need a social justice and working-class agenda to respond to its increasingly immiserated condition, lest we leave it susceptible to a far right populist manipulation of this condition. Joe Biden may well win the election. Yet even if he does so and manages to take office, the crisis of global capitalism and the fascist project it is stoking will continue. A united front against fascism must be based on a social justice agenda that targets capitalism and its crisis.

### 1AC---Innovation

#### Advantage 2 is Innovation:

#### **DPS unleashes faster and better aligned innovation than either capitalism or state socialism**

Kotz 2 - economics professor at Amherst (David, <https://people.umass.edu/dmkotz/Soc_and_Innovation_02.pdf>, emuse) \*DPPS = DPS

3. Capitalist Innovation Mainstream Western economics gives capitalism high marks for innovation. The pursuit of profit is supposed to assure a strong incentive to engage in the invention, development, and production stages of innovation, while also inducing investors to provide potential innovators with the necessary financial means. Free entry into markets compels rapid diffusion of innovations. An optimal contribution to human welfare is assured, given the assumption that profitability reflects the ultimate value to society of any economic activity. While capitalism does promote a certain kind of rapid technological change, the above account has serious flaws. The pursuit of profit does not play such a big role at the important invention stage of innovation. Studies show that a large majority of economically important inventions come from university scientists, government researchers, and independent inventors, for whom pecuniary considerations are not typically dominant.6 At the development stage, the still-high risks, plus the sometimes substantial external (and hence uncapturable) benefits from innovation, lead to (successful) demands for government subsidization.7 The profit incentive for innovation is profoundly contradictory. For the profit incentive to operate, innovators must be able to gain monopoly control over the innovation and bar competitors, or else the first innovator’s profit will be small and fleeting. However, the legal and extra-legal means that capitalist innovators use to gain such monopoly power (patents and predatory tactics) prevent the rapid diffusion of new products and processes. The greatest flaw in the capitalist innovation process has to do with the third question, that of the contribution of innovative activity to human welfare. As capitalist innovators follow the guide of profits, the following problems arise: 1) innovations are disproportionally directed at upper income consumers;8 2) public goods are largely ignored in the innovation process; 3) external benefits and costs of innovation, which may loom very large, are not taken into account in innovation decisions; 4) the monopoly power required to stimulate innovation leads to high monopoly prices for the resulting product, limiting the use of the new innovation and hence reducing the benefit from it;9 5) much innovation activity is pure waste, as firms devote innovation resources toward the end of defeating rivals rather than benefitting consumers.10 While capitalism does promote the development of the forces of production, it does so in a manner that is severely flawed. Capitalism can promote innovation only if the state and other non-capitalist institutions play an active role in organizing and financing the innovation process, particularly the invention stage. It can do so only with significant monopoly power and barriers to entry that simultaneously promote and hinder technical progress. And it produces a severely distorted innovation process that, after a certain stage of development, may subtract as much from human welfare as it contributes, or even more. 4. Innovation under Soviet State Socialism The Soviet system was, at best, a highly flawed and distorted version of socialism. However, it was the first large-scale effort to build a modern economy based on public ownership of productive property and coordination of the economy by economic planning. For this reason, the experience of the Soviet economy in the area of innovation is relevant to our concerns here Spokespeople for the Soviet system claimed that, as a socialist system, it would, and did, outperform capitalism in promoting technical progress. The key advantages cited were the absence of commercial secrecy, the avoidance of the wasteful duplication of R&D effort of capitalism, and the ability to directly incorporate technological advances into the central plan rather than having to rely on the indirect incentive of profitability. However, the Soviet leadership soon discovered that innovation was not as straightforward a process as had been assumed. In the postwar decades the system was frequently adjusted and reformed to improve innovation performance. The mature Soviet system had various institutional components to its innovation system, including the incorporation of major planned new technologies into the central plan by Gosplan each year. However, two institutions were most important in Soviet innovation performance: 1) a system of R&D Institutes, which had innovation as their sole mission; and 2) the individual enterprises, which typically had a design department for new product development and, at larger enterprises, a research laboratory. The Soviet system did have significant strengths in innovation performance.11 Soviet R&D Institutes were staffed with well-trained and dedicated researchers and were reasonably well funded, and they and the enterprises did produce many important innovations. The success was best known in military and space technology, but it extended to some civilian industrial technologies.12 Output per labor hour in the Soviet economy grew rapidly until 1975, much faster than in the U.S. during that period (Kotz and Weir, 1997, p. 46). However, Soviet innovation performance never lived up to expectations. Understanding the problems encountered in the Soviet innovation process -- and the institutional sources of those problems -- is relevant to evaluating the potential innovation performance of a DPPS system, including potential problems that it might encounter. There was a serious incentive problem in the Soviet innovation process. The incentive problem was not located at the R&D Institutes but rather at the enterprises. Soviet enterprises were relatively good at minor innovations. The incentive problem involved larger changes in the production process and the development of new products that differed substantially from what had been produced before. The Soviet enterprise director faced a context of relatively low rewards (in the director’s bonus) for successful innovations while the risks attendant upon major innovations were quite high. This tended to make Soviet enterprise directors conservative about innovation, with reluctance to develop new products or processes or to introduce those that emerged from the R&D Institutes. The risk of innovation was not just the result of the inevitable delays and unforseen costs that arise when trying something new. The key factor was the difficult supply relations in the Soviet planning system. Enterprises always worried about whether sufficient supplies would be delivered on time to enable the enterprise to meet its goals. This was a result of the policy of “taut planning,” aimed at achieving the maximum possible output from available inputs. Innovation necessitates unforeseen changes in required inputs, and the taut planning system made it difficult to change the input mix in mid-plan. The hierarchical relations of Soviet planning meant that enterprises did not have close relations with their suppliers, which compounded the problem. These conditions made innovation very risky, with a likelihood of interruption of the enterprise’s regular production, resulting in financial punishment for the director. Another incentive problem was an absence of penalties for failure to introduce available new technologies. A laggard enterprise with outmoded technology might find its costs rising above the industry average, but the ministry tended to protect its enterprises and made subsidies available. There were also problems of the means available for innovation. Innovations that involve radically new products typically entail either the entry by an existing enterprise into a new line of production or the creation of new enterprises. The Soviet planning system had relatively rigid boundaries between industries, and entry into a different line by an existing enterprise was discouraged, as poaching on the territory of others.13 While new enterprises were created from time to time, this was limited and usually faced opposition from existing enterprises. Individual inventors were greatly underutilized in the Soviet system. Most enterprises had an official policy of making small-scale facilities available to aspiring inventors. However, this program was not very effective at drawing out creative individual inventors, perhaps because the passivity bred into individuals by the repressive, centralized, hierarchical Soviet system discouraged individual inventive activity. In the matter of the effectiveness of innovative activity at advancing human welfare, the Soviet system did avoid some of the problems of capitalist innovation. There was no bias against innovation in public goods. There was no problem of monopoly pricing of new products and processes, with the attendant limitation of their use. However, the Soviet system had significant weaknesses in the effectiveness of innovative activity. We will cite three problems in this area. First, while irrational profit criteria largely guide the allocation of innovative effort in a capitalist system, in the Soviet system the “planners’ preference” guided this allocation. The top leadership favored certain sectors, particularly the military, space exploration, and certain industrial sectors, while consumer goods occupied a lowly place in their priorities. Second, there was a problem stemming from the poor relations between the two key institutions involved in innovation, the R&D Institutes and the enterprises. The R&D Institutes had the best researchers and facilities, and they produced a large volume of plans for new products and processes. However, the enterprises, which had to produce the new product or introduce the new process, complained that plans arrived that were incomplete, unrealistic, or unworkable. R&D Institutes complained that enterprises were uninterested in their proposals. The result was that much innovative effort failed to bear fruit. This seemed to be a result of the hierarchical character of the system, in which relations between institutions at the same level of the hierarchy were very poorly structured.14 Third, and perhaps most serious, innovation in the Soviet system generated major external costs, particularly for workplace and environmental health. The reason for this in the Soviet case was not the pursuit of profit but the single-minded emphasis on growth in output and the undemocratic and repressive character of the system which prevented the affected parties from defending their health interests. 5. Innovation in a Democratic Planned Participatory Socialist System What kind of innovation performance would be expected under a DPPS system, by comparison to that of capitalism and state socialism? Three features of DPPS, as laid out in Devine (1988), are relevant to innovation performance. First, the main features of the overall economic plan would be determined by a democratic process (Devine, 1988, p. 190). Second, the planning and coordination of the economy would take place, not through market forces or top-down central planning, but through a process of “negotiated coordination” (Devine, 1988, ch. 8-10). This means that resource allocation decisions would be made by boards -- industry boards and local and regional negotiated coordination bodies -- that have representation of all affected constituencies, including workers, consumers, suppliers, the local community, and even “cause” groups such as environmentalists, job safety activists, feminists, etc. These bodies would arrive at decisions through compromise among the interests represented on them. In addition, the basic units of social production, or enterprises, are considered social property and have governing boards that include representatives of all groups affected by the activity of the enterprise, including workers, consumers, suppliers, and the local community. Third, each individual would be expected to spend part of her/his work life in each of the main types of labor, which Devine defines as planning and managing labor, creative labor, nurturing labor, skilled labor, and unskilled/repetitive labor (Devine, 1988, 171). This would eliminate the social division of labor, while preserving the technical division of labor with its efficiency advantages In the absence of competitive pursuit of profits, or a Politburo demanding innovation, what would be the source of innovation under DPPS? First, the democratic, participatory institutions of that system would empower the population to demand innovations aimed at its own benefit. Under such a system, people would stand to benefit from innovation, in the three roles that people occupy – that of consumer, worker, and community member. Consumers can benefit from new, better, and cheaper products. Workers can benefit from less arduous toil and a more satisfying experience at work. Members of the community can benefit from products and work processes that improve, rather than harm, community life. DPPS, like every economic system, can also tap a second potential source of innovation. That is the species trait of human beings of having a propensity to look for ways to change and improve their methods of doing things, entirely apart from any desire for more goods or less labor. This drive, present in most people, although not in equal measure in all, represents an important source of innovative behavior at the stage of invention, if the economic system allows it to operate freely. How would a DPPS economy translate the potential benefits of innovation into actual effective innovative activity? How would it encourage, within the economy, the expression of human beings’ natural tendency to create new things? If the populace wants innovation, they would have to build into the system significant incentives for those who are in a position to carry it out. Enterprise managers, along with everyone else who participates in any of the stages of innovation, should be eligible for rewards for successful innovation. It is not sufficient to assume that decision-makers will automatically innovate -- it must be communicated to them, via a reward system, that society values innovation. Such rewards would be needed regardless of the mix of material versus moral incentives. Pay incentives need not be huge to elicit innovative behavior, as long they are large enough to bring a noticeable consumption benefit to the innovator. As the Soviet experience indicates, a planned economy can increase the risk associated with innovation, deterring innovative activity. However, DPPS should not suffer from the problems of uncertain supplies and inflexibility that characterized Soviet planning. With representatives on one another’s decision-making boards and with opportunities to communicate on negotiated coordination bodies, there should be reliable and flexible relations between suppliers and customers. It would be necessary to eschew the Soviet policy of taut planning and operate the economy with sufficient excess productive capacity to accommodate the unforeseen changes in inputs that innovation requires. Without the spur of competition to compel laggard enterprises to adopt the best technology in the industry, could an enterprise management, perhaps backed up by a workforce unenthusiastic about change, simply refuse to make improvements? As was noted above, an enterprise under DPPS is not the sole property of its workers but is social property, upon which constituencies outside the enterprise have a legitimate claim. Industry boards would have to keep track of laggard enterprises, and consumer representatives on both industry and enterprise boards would have to be powerful enough to exert pressure to make appropriate changes, imposing financial penalties where necessary. In order for this system to work effectively, it would be desirable to have more than one enterprise in each industry, except in cases of natural monopoly.15 The purpose is not to impose a market form of competition in which the cheapest producer drives out the rest, a process which often yields socially irrational outcomes. Rather, the purpose is to permit the gathering of comparative information about enterprise performance, from market exchange as well as other sources, so as to make informed decisions about what changes enterprises should be asked to make. It would not always turn out that the higher-cost producer is the one asked to change; the lower-cost producer might be found to have achieved low costs by anti-social practices rather than superior technology. Long ago Adam Smith complained that the detailed division of labor tends to make workers stupid. The DPPS practice of assuring everyone participation in the highest types of labor should have the opposite effect. This practice, along with the widespread participation in decision-making fostered by a DPPS society, should encourage the creative, innovative behavior that is natural to our species. DPPS should create conditions for a substantial outpouring of creativity from the population, some of which would take the form of innovation in the economic sphere. In the matter of assuring adequate means for innovation, DPPS would face a serious problem. The basic institutions of DPPS would not necessarily provide sufficient opportunities for creative individuals to work out new economically relevant ideas. More generally, there would be a danger that the decision-making boards of DPPS would tend to represent existing ways of doing things and offer resistance to innovation. The citizens of a DPPS society could solve this problem by establishing an Innovation Facilitation Board (IFB), dedicated to the promotion of innovation throughout the economy.16 The IFB would be given substantial financing from the central treasury. It would take applications from enterprises, informal groups, or individuals that wanted to work on inventing a new product or process or to engage in the development stage of an innovation. It would be able to make grants covering a long enough time period to provide a chance of success. Determining the membership of the IFB represents a serious problem for DPPS. If the IFB included representatives of all the constituencies that are affected by innovation, this would be likely to subvert its intended function. Major innovations typically have victims, and the potential costs may be more apparent than the potential benefits when the innovation is still at an early stage.17 A simple application of the principle of wide representation might block the development of new products and processes before their potential benefits became apparent. In order to be capable of carrying out its mandate, the IFB would have to be constituted as an independent board, perhaps made up of consumer representatives and experts of various kinds. Such a departure from the usual practice would be consistent with the underlying principle of DPPS, as long as the final decision to implement an innovation rested with a representative board. The IFB would facilitate and encourage the invention and development stages for new products and processes. It seems justified to protect the early stages of innovation from a final social decision, until it has been developed to the point where a well-informed judgment can be made about benefits and costs. However, the decision to implement an innovation should have to pass the test of the system’s core process of evaluation by, and compromise among, all affected constituencies. This calls for a second institution, an Innovation Approval Board (IAB). It would be constituted in the usual way, with representation of all relevant interests. Its role would be to determine whether a proposed new product or process, which emerged from a grant from the IFB, should be given the green light for production/introduction. While contemporary capitalism does place some after-the-fact restraints on socially harmful innovation, through state regulation and individual or class-action lawsuits, DPPS would place social interests at the heart of the innovation process. While the research and development stages of a potentially harmful project could not be readily blocked by opponents, the project could not be implemented, and the costs actually imposed, without social approval. Furthermore, those engaging in invention or development on an IFB grant would know the criteria by which the implementation of the innovation would eventually be judged by the IAB, which should have a positive impact on the direction of invention and development. A remaining problem is the possible need to allow an existing enterprise to enter a new line of production, or to permit the founding of a new enterprise, in order to implement a major innovation. This might encounter resistence from existing interests. To avoid this problem, once the IAB has given its approval, the innovators should have the right to request permission to start a new enterprise, or enlist an existing enterprise to move outside its previous line of work, in order to implement the innovation. A decision to grant such a request might require a joint meeting of the IFB and the IAB. The social effectiveness of innovation under DPPS should be free of each of the five problems of capitalist innovation cited above. Innovation would not be directed disproportionately to satisfy the rich, since there would be no rich class, nor would profits from sale guide innovation. The balance between innovation in public and private goods should reflect the citizenry’s priorities, since representative bodies would allocate innovation resources between the two types of goods, and the incentives for innovation should operate equally for the two. External benefits and costs, including those affecting workers and the environment, should be fully considered by the representative boards that make decisions about the introduction of new technologies and products. Such decisions would not face the pressure to impose costs on third parties that results from competitive profit-seeking. There would be no problem of monopoly pricing restricting the application of innovations and no waste of innovative effort due to oligopolistic competition. The three problems that undermined the effectiveness of innovation under state socialist planning should be absent from DPPS. No Politburo officials would dictate priorities for innovation. Instead, democratic decision-making would determine the amount and allocation of innovation. The waste-generating disconnection between R&D Institutes and enterprises should not be present in DPPS, since horizontal relations among institutions would be strong. If R&D Institutes were designed as part of the innovation system of DPPS, then cross representation between them and the enterprises should permit an effective interface between the two types of institutions. Last, the causes of the severe external costs of innovation under state socialism – a single-minded focus on growth of output and a lack of democracy – should not characterize DPPS. Our conclusion is that the basic defining institutions of DPPS are generally favorable for innovation, but these institutions alone would not be sufficient to guarantee successful innovation performance. By adding the set of additional institutions and policies mentioned above, DPPS should display an innovation performance far superior at meeting human needs to that of either capitalism or state socialism. Of course, such a system would not guarantee that every innovation would contribute to human welfare. It is not always possible to predict in advance what the eventual consequences of a new product or process will be. However, such a system would be far superior to earlier systems at making such decisions.

#### An innovation process centered on social interests is key to avert extinction from black-ball technology

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Achieving stabilization The truth of VWH would be bad news. But it would not imply that civilization will be devastated. In principle at least, there are several responses that could stabilize the world even if vulnerability exists. Recall that we defined the hypothesis in terms of a black-ball technology making civilizational devastation extremely likely conditional on technological development continuing and the semi-anarchic default condition persisting. Thus we can theoretically consider the following possibilities for achieving stabilization: 1. Restrict technological development. 2. Ensure that there does not exist a large population of actors representing a wide and recognizably human distribution of motives. 3. Establish extremely effective preventive policing. 4. Establish effective global governance. We will discuss (3) and (4) in subsequent sections. Here we consider (1) and (2). We will argue they hold only limited promise as ways of protecting against potential civilizational vulnerabilities. Technological relinquishment In its general form, technological relinquishment looks exceedingly unpromising. Recall that we construed the word ‘technology’ broadly; so that completely stopping technological development would require something close to a cessation of inventive activity everywhere in the world. That is hardly realistic; and if it could be done, it would be extremely costly – to the point of constituting an existential catastrophe in its own right (Namely, ‘permanent stagnation’ (Bostrom, 2013)). That general relinquishment of scientific and technological research is a non-starter does not, however, imply that limited curtailments of inventive activities could not be a good idea. It can make sense to forego particularly perilous directions of advancement. For instance, recalling our ‘easy nukes’ scenario, it would be sensible to discourage research into laser isotope separation for uranium enrichment (Kemp, 2012). Any technology that makes it possible to produce weapons-grade fissile material using less energy or with a smaller industrial footprint would erode important barriers to proliferation. It is hard to see how a slight reduction in the price of nuclear energy would compensate. On the contrary, the world would probably be better off if it somehow became harder and more expensive to enrich uranium. What we would ideally want in this area is not technological progress but technological regress. While targeted regress might not be in the cards, we could aim to slow the rate of advancement towards risk-increasing technologies relative to the rate of advancement in protective technologies. This is the idea expressed by the principle of differential technological development. In its original formulation, the principle focuses on existential risk; but we can apply it more broadly to also encompass technologies with ‘merely’ devastational potential: Principle of Differential Technological Development. Retard the development of dangerous and harmful technologies, especially ones that raise the level of existential risk; and accelerate the development of beneficial technologies, especially those that reduce the existential risks posed by nature or by other technologies (Bostrom, 2002). The principle of differential technological development is compatible with plausible forms of technological determinism. For example, even if it were ordained that all technologies that can be developed will be developed, it can still matter when they are developed. The order in which they arrive can make an important difference – ideally, protective technologies should come before the destructive technologies against which they protect; or, if that is not possible, then it is desirable that the gap be minimized so that other countermeasures (or luck) may tide us over until robust protection become available. The timing of an invention also influences what sociopolitical context the technology is born into. For example, if we believe that there is a secular trend toward civilization becoming more capable of handling black balls, then we may want to delay the most risky technological developments, or at least abstain from accelerating them. Even if we suppose that civilizational devastation is unavoidable, many would prefer it to take place further into the future, at a time when maybe they and their loved ones are no longer alive anyway.32 Differential technological development doesn’t really make sense in the original urn-of-creativity model, where the color of each ball comes as a complete surprise. If we want to use the urn model in this context, we must modify it. We could stipulate, for example, that the balls have different textures and that there is a correlation between texture and color, so that we get clues about the color of a ball before we extract it. Another way to make the metaphor more realistic is to imagine that there are strings or elastic bands between some of the balls, so that when we pull on one of them we drag along several others to which it is linked. Presumably the urn is highly tubular, since certain technologies must emerge before others can be reached (we are not likely to find a society that uses jet planes and flint axes). The metaphor would also become more realistic if we imagine that there is not just one hand daintily exploring the urn: instead, picture a throng of scuffling prospectors reaching in their arms in hopes of gold and glory, and citations. Correctly implementing differential technological development is clearly a difficult strategic task (Cf. Collingridge, 1980). Nevertheless, for an actor who cares altruistically about long-term outcomes and who is involved in some inventive enterprise (e.g. as a researcher, funder, entrepreneur, regulator, or legislator) it is worth making the attempt. Some implications, at any rate, seem fairly obvious: for instance, don’t work on laser isotope separation, don’t work on bioweapons, and don’t develop forms of geoengineering that would empower random individuals to unilaterally make drastic alterations to the Earth’s climate. Think twice before accelerating enabling technologies – such as DNA synthesis machines – that would directly facilitate such ominous developments.33 But boost technologies that are predominantly protective; for instance, ones that enable more efficient monitoring of disease outbreaks or that make it easier to detect covert WMD programs. Even if it is the case that all possible ‘bad’ technologies are bound to be developed eventually, it can still be helpful to buy a little time.34 However, differential technological development does not on its own offer a solution for vulnerabilities that persist over long periods – ones where adequately protective technologies are much harder to develop than their destructive counterparts, or where destruction has the advantage even at technological maturity.35 Preference modification Another theoretically possible way of achieving civilizational stabilization would be to change the fact that there exists a large population of actors representing a wide and recognizably human distribution of motives. We reserve for later discussion of interventions that would reduce the effective number of independent actors by increasing various forms of coordination. Here we consider the possibility of modifying the distribution of preferences (within a more or less constant population of actors). The degree to which this approach holds promise depends on which type of vulnerability we have in mind. In the case of a Type-1 vulnerability, preference modification does not look promising, at least in the absence of extremely effective means for doing so. Consider that some Type-1 vulnerabilities would result in civilizational devastation if there is even a single empowered person anywhere in the world who is motivated to pursue the destructive outcome. With that kind of vulnerability, reducing the number of people in the apocalyptic residual would do nothing to forestall devastation unless the number could be reduced all the way to zero, which may be completely infeasible. It is true that there are other possible Type-1 vulnerabilities that would require a somewhat larger apocalyptic residual in order for civilizational devastation to occur: for example, in a scenario like ‘easy nukes’, maybe there would have to be somebody from the apocalyptic residual in each of several hundred cities. But this is still a very low bar. It is difficult to imagine an intervention – short of radically re-engineering human nature on a fully global scale – that would sufficiently deplete the apocalyptic residual to entirely eliminate or even greatly reduce the threat of Type-1 vulnerabilities. Note that an intervention that halves the size of the apocalyptic residual would not (at least not through any firstorder effect) reduce the expected risk from Type-1 vulnerabilities by anywhere near as much. A reduction of 5 percent or 10 percent of Type-1 risk from halving the apocalyptic residual would be more plausible. The reason is that there is wide uncertainty about how destructive some new blackball technology would be, and we should arguably use a fairly uniform prior in log space (over several orders of magnitude) over the size of apocalyptic residual that would be required in order for civilizational devastation to occur conditional on a Type-1 vulnerability arising. In other words, conditional on some new technology being developed that makes it easy for an average individual to kill at least one million people, it may be (roughly) as likely that the technology would enable the average individual to kill one million people, ten million people, a hundred million people, a billion people, or every human alive. These considerations notwithstanding, preference modification could be helpful in scenarios in which the set of empowered actors is initially limited to some small definable subpopulation. Some black-ball technologies, when they first emerge from the urn, might be difficult to use and require specialized equipment. There could be a period of several years before such a technology has been perfected to the point where an average individual could master it. During this early period, the set of empowered actors could be quite limited; for example, it might consist exclusively of individuals with bioscience expertise working in a particular type of lab. Closer screening of applicants to positions in such labs could then make a meaningful dent in the risk that a destructive individual gains access to the biotech black ball within the first few years of its emergence.36 And that reprieve may offer an opportunity to introduce other countermeasures to provide more lasting stabilization, in anticipation of the time when the technology gets easy enough to use that it diffuses to a wider population. For Type-2a vulnerabilities, the set of empowered actors is much smaller. Typically what we are dealing with here are states, perhaps alongside a few especially powerful nonstate actors. In some Type-2a scenarios, the set might consist exclusively of two superpowers, or a handful of states with special capabilities (as is currently the case with nuclear weapons). It could thus be very helpful if the preferences of even a few powerful states were shifted in a more peaceloving direction. The ‘safe first strike’ scenario would be a lot less alarming if the actors facing the security dilemma had attitudes towards one another similar to those prevailing between Finland and Sweden. For many plausible sets of incentives that could arise for powerful actors as a consequence of some technological breakthrough, the prospects for a non-devastational outcome would be significantly brightened if the actors in question had more irenic dispositions. Although this seems difficult to achieve, it is not as difficult as persuading almost all the members in the apocalyptic residual to alter their dispositions. Lastly, consider Type-2b. Recall that such a vulnerability entails that ‘by default’ a great many actors face incentives to take some damaging action, such that the combined effects add up to civilizational devastation. The incentives for using the black-ball technology must therefore be ones that have a grip on a substantial fraction of the world population – economic gain being perhaps the prime example of such a near-universal motivation. So imagine some private action, available to almost every individual, which saves each person who takes it a fraction X of his or her annual income, while producing a negative externality such that if half the world’s population takes the action then civilization gets devastated. At X = 0, we can assume that few people would take the antisocial action. But the greater X is, the larger the fraction of the population that would succumb to temptation. Unfortunately, it is plausible that the value of X that would induce at least half of the population to take the action is small, perhaps less than 1 per cent.37 While it would be desirable to change the distribution of global preferences so as to make people more altruistic and raise the value of X, this seems difficult to achieve. (Consider the many strong forces already competing for hearts and minds – corporate advertisers, religious organizations, social movements, education systems, and so on.) Even a dramatic increase in the amount of altruism in the world – corresponding, let us say, to a doubling of X from 1 percent to 2 per cent – would prevent calamity only in a relatively narrow band of scenarios, namely those in which the private benefit of using the destructive technology is in the 1–2 per cent range. Scenarios in which the private gain exceeds 2 per cent would still result in civilizational devastation. In sum, modifying the distribution of preferences within the set of actors that would be destructively empowered by a black-ball discovery could be a useful adjunct to other means of stabilization, but it can be difficult to implement and would at best offer only very partial protection (unless we assume extreme forms of worldwide re-engineering of human nature).38 Some specific countermeasures and their limitations Beside influencing the direction of scientific and technological progress, or altering destruction-related preferences, there are a variety of other possible countermeasures that could mitigate a civilizational vulnerability. For example, one could try to: • prevent the dangerous information from spreading; • restrict access to requisite materials, instruments, and infrastructure; • deter potential evildoers by increasing the chance of their getting caught; • be more cautious and do more risk assessment work; and • establish some kind of surveillance and enforcement mechanism that would make it possible to interdict attempts to carry out a destructive act.

#### Black-ball technology causes extinction

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Full-scale nuclear war. There is roughly 0.02-7% chance per year of accidental full-scale nuclear war between the US and Russia (Barrett, Baum, & Hostetler, 2013). With fairly high probabilities of nuclear winter and civilization collapse given nuclear war, this is order of magnitude 10% this century. We should also take into consideration that despite reductions in nuclear weapons, a new nuclear arms race is possible in the 21st century. Such a race may include more devastating weapons or cheaper manufacturing methods. Nuclear war could include the creation of large cobalt bombs as doomsday weapons or attacks on nuclear power plants. It could also start a chain of events which result in civilization collapse. Nanotechnology risks. Although molecular manufacturing can be achieved without self-replicating machines (Drexler & Phoenix, 2004), technological fascination with biological systems makes it likely that self-replicating machines will be created. Moreover, catastrophic uses of nanotechnology needn’t be due to accident, but also due to the actions of purposeful malignant agents. Therefore, we estimate the chance of runaway self-replicating machines causing “gray goo” and thus human extinction to be one per cent in this century. There could also be extinction risks from weapons produced by safe exponential molecular manufacturing. See also (Turchin, 2016). Artificial pandemic and other risks from synthetic biology. An artificial multipandemic is a situation in which multiple (even hundreds) of individual viruses created through synthetic biology are released simultaneously either by a terrorist state or as a result of the independent activity of biohackers (Turchin, Green, & Dekenbergern, 2017). Because the capacity to create such a multipandemic could arrive as early as within the next ten to thirty years (as all the needed technologies already exist), it could overshadow future risks, like nanotech and AI, so we give it a higher estimate. There are also other possible risks, connected with synthetic biology, which are widely recognized as serious (Bostrom, 2002). Agricultural catastrophe. There is about a one per cent risk per year of a ten per cent global agricultural shortfall occurring due to a large volcanic eruption, a medium asteroid or comet impact, regional nuclear war, abrupt climate change, or extreme weather causing multiple breadbasket failures (Denkenberger 2016). This could lead to 10% mortality. Red AI risks. The risks connected with the possible creation of non-aligned Strong AI are discussed by (Bostrom, 2014), (Yudkowsky, 2008), (Yampolskiy & Fox, 2013) and others. It is widely recognized as the most serious X risk. AI could start an “intelligence explosion wave” through the Universe, which could prevent appearance of the other civilizations before they create their own AI. Purple Something like the Caribbean crisis in the past, but larger size. Currently, there are no known purple risks. If we could be sure that Strong AI will appear in the next 100 years and would probably be negative, it would constitute a purple risk. Another example would be the creation of a Doomsday weapon that could kill our species with global radiation poisoning (much greater ionizing radiation release than all of the current nuclear weapons) (Kahn, 1959). A further example would be a large incoming asteroid being located, or an extinction level pandemic has begun. These situations require quick and urgent effort on all levels.

#### Capitalism locks in existential climate change---only socialism can achieve the absolute decoupling necessary to solve

Reese 20 - author of Socialism or Extinction and The End of Capitalism: The Thought of Henryk Grossman (Ted, https://grossmanite.medium.com/socialism-or-extinction-is-a-fact-not-a-slogan-3cb97b198c50, emuse)

Socialism or extinction is not just a slogan, though; it is a statement of scientific fact. If XR does not stand for socialism, then it must necessarily stand for extinction, rendering its own alleged purpose redundant. In short: capitalism is a profit-dependent system, and must therefore continue to expand production in order to keep investment flowing and profits rising (in absolute terms). And since profit arises from capital’s exploitation of commodity-producing labour, the intensity of the production based on fossil fuel and toxic, fuel-intensive metal mining is (increasingly) necessary. To flesh this out a bit more: capital’s exploitation of commodity-producing labour is the [sole source of profit](http://gesd.free.fr/kliman99.pdf) — the capitalist appropriates surplus value (surplus labour time) from the worker, i.e the worker keeps less value than they create, covering their living costs (necessary labour time), and surplus value is then realised through commodity sales. This social relation is obscured by the money-wage relation. Therefore, capital’s evermore demanding need to accumulate is based on the continual expansion of intensive production, i.e. the extraction of fossil fuel and metals, deforestation, intensive farming, etc., that is releasing carbon and other ‘greenhouse’ emissions — not to mention that they are fuel-intensive practices in the first place and toxic to the local environment — trapped in nature into the atmosphere, making the planet warmer and threatening runaway global heating that, according to numerous scientific studies, will make the planet uninhabitable for humans, probably before the end of the present century. (Capital’s exploitation of labour is therefore also the root cause of [alleged plummeting sperm counts](https://grossmanite.medium.com/declining-sperm-counts-polluted-breast-milk-autoimmune-disorders-the-diabolical-legacy-of-53462aa1245d) (down a reported 59% from 1973 to 2011), further threatening extinction. The microplastics, nanoparticles and toxic chemicals sourced from fossil fuels and metal mines and consumed in everyday products penetrate and damage human cells.) Although extractive industries are usually now very capital-intensive — the source of capitalism’s ([now existential) economic crisis](https://grossmanite.medium.com/with-hyperinflation-looming-and-capitalism-dying-socialism-is-becoming-an-economic-necessity-a031f9a746e0) — the rate of exploitation of the remaining workers is very high. It is not capitalism’s need for ‘infinite growth on a planet of finite resources’, as most leftists seem to put it, that is the central or immediate problem; rather, it is the pace of production and its expansion — determined by the size of an ever-larger total capital and its need to expand yet further by feeding off labour — relative to nature’s ability to replenish itself (something capitalism’s dependence on intensive extraction obviously hinders). Just as surplus value is converted into capital faster than it is produced — resulting in (on average) decennial recessions and, eventually, a historical limit to capital accumulation — so nature is converted into capital faster than it can be replenished. Compound accumulation Fossil fuels (petroleum, coal, natural gas and orimulsion) would shrink to roughly half of total primary energy supply in 2050, from about 77% in 2020 — [down from 81% in 2010](https://www.iea.org/data-and-statistics/charts/share-of-total-primary-energy-demand-by-fuel-2010-2019) — if the world meets the ‘minimum’ internationally agreed target of 2 degrees Celsius warming, [according to S&P Global Platts Analytics](https://www.spglobal.com/platts/en/market-insights/latest-news/oil/062320-fossil-fuels-energy-mix-infographic-interactive). (Even 1C has already seen a reported [400,000 people (and counting) a year dying from climate-related causes](https://www.inquirer.com/philly/blogs/public_health/Death-toll-from-climate-change-estimated-at-400000-In-2010.html); while the Arctic permafrost — containing 1.8 trillion tonnes of carbon, more than twice as much as is currently suspended in Earth’s atmosphere — is, we are told,[2] melting [70 years sooner than previously expected](https://bigthink.com/surprising-science/canada-permafrost). While fossil fuel may fall to 50% of the mix of energy production, its absolute production may rise, since economic output under capitalism tends to double every 20 years.[3] As Jason Hickel writes in his book Less Is More, there was “a steady rise of material use in the first half of the 1900s, doubling from 7 billion tons per year to 14 billion tons per year. But then, in the decades after 1945, something truly bewildering happens… material use explodes: it reaches 35 billion tons by 1980, hits 50 billion tons by 2000, and then screams up to an eye-watering 92 billion tons by 2017… This increase in material use tracks more or less exactly with the rise of global GDP. The two have grown together in lockstep. Every additional unit of GDP means roughly an additional unit of material extraction. “There has been a radical acceleration of fossil fuel use since 1945, rising along with the explosion in both GDP and material use. And carbon emissions have gone up right along with it. Annual emissions more than doubled from 2 billion tons per year to 5 billion tons per year during the first half of the 1900s. During the second half of the century they rose fivefold, reaching 25 billion tons by the year 2000. And they have continued to rise since then, despite a string of international climate summits, reaching 37 billion tons in 2019. Of course, there is no intrinsic relationship between energy use and CO2 emissions. It all depends on what energy source we’re using. Coal is by far the most carbon-intensive of the fossil fuels. Oil — which has grown much more quickly than coal since 1945 — emits less CO2 per unit of energy. And natural gas is less intensive still. As the global economy has come to rely more on these less polluting fuels, one might think that emissions would begin to decline.… [But] because GDP growth is driving total energy demand up at such a rapid pace … these new fuels aren’t replacing the older ones, they are being added on top of them. The shift to oil and gas hasn’t been an energy transition, but an energy addition. “The same thing is happening right now with renewable energy… To keep energy flowing when the sun isn’t shining and the wind isn’t blowing will require enormous batteries at the grid level. This means 40 million tons of lithium — an eye-watering 2,700% increase over current levels of extraction… It takes 500,000 gallons of water to produce a single ton of lithium. Even at present levels of extraction this is causing real problems. In the Andes, where most of the world’s lithium is located, mining companies are burning through the water tables and leaving farmers with nothing to irrigate their crops. Many have had no choice but to abandon their land altogether. Meanwhile, chemical leaks from lithium mines have poisoned rivers from Chile to Argentina, Nevada to Tibet, killing off whole freshwater ecosystems. The lithium boom has barely started, and it’s already a catastrophe… “Today the world is producing 8 billion more megawatt hours of clean energy each year than in 2000. That’s a lot — enough to power all of Russia. But over exactly the same period, economic growth has caused energy demand to increase by 48 billion megawatt hours. “There’s also something else going on. With every year that goes by, it becomes more and more difficult to extract the same amount of materials from the earth. Today, three times more material has to be extracted per unit of metal than a century ago.”[4] There is no such thing as ‘green capitalism’. The ‘Green New Deal’ proposed by social democrats — which actually involves privatising the last areas of common land — is species suicide. Socialism and non-intensive production Under capitalism, commodities are only produced if they are profitable, i.e. if labour is exploitable enough to expand capital. They are use-values/utilities and exchange-values. Under socialism, goods (having been decommodified) are produced if we deem them to be useful, via democratic regulation and demand. They are just use-values and socially owned, so no exchange of ownership takes place, i.e. exchange value and profit are abolished. If we deem that a good is not useful since it is damaging the environment or contributing to climate change too much, we can decide not to make it. Or we can find a way of making it that does not damage or exhaust nature. Rather than fossil fuel (which disappears into thin air and so has to be extracted anew by exploited labour, making it perfect for the needs of capital) or metals (which are finite), we could use non-labour-intensive renewables — sunlight, wind and especially (for physical products) fibrous plants ([especially hemp](https://medium.com/@Grossmanite/the-green-new-deal-is-species-suicide-only-a-hemp-based-industrial-revolution-can-save-earths-f9c3dc29c4e3), which can replace steel, concrete, graphene, lithium and fossil fuel) and [mycelium](https://blogs.scientificamerican.com/observations/the-mycelium-revolution-is-upon-us/) (from which we can even make [computers](https://royalsocietypublishing.org/doi/10.1098/rsfs.2018.0029)). And because socialism can plan and co-ordinate production as a whole on a break-even basis, instead of having to bow to the demands of capital accumulation and anarchic competition between private producers, we can grow economic output at the rate nature replenishes (or slower) — something that socialism could help instead of hinder. Achieving the abundant material wealth for all promised by communism (as it develops into its higher stage, when production becomes fully automated and, eventually, free) is part of the solution. Fibrous plants like hemp [quickly draw down and sequester CO2](https://www.huffpost.com/entry/hemp-and-lots-of-it-could_b_328275?guccounter=1) while reviving the soil, reversing desertification; and the products made from them (including bioplastic that is 10 times stronger than steel; batteries that [outperform lithium and graphene](https://www.bbc.co.uk/news/science-environment-28770876); and highly-insulating [carbon-negative hempcrete](https://www.ukhempcrete.com/services/better-than-zero-carbon-buildings/)) keep that carbon sequestered indefinitely. Abundant material wealth for all includes abundant vegetation, permaculture, afforestation, etc. There is also the potential for micro-organisms to supply a near-infinite source of energy. In 2018, scientists in the US confirmed a theory first proposed by Soviet geologists when they found [huge populations of bacteria living in the extreme temperatures of Earth’s crust](https://www.independent.co.uk/news/science/deep-life-microbes-underground-bacteria-earth-surface-carbon-observatory-science-study-a8677521.html), despite the lack of photosynthesis and nutrients, living solely from chemical reactions fuelled by geothermal energy. They estimated that up to 23 billion tonnes of micro-organisms live in this “deep biosphere”, making it the largest ecosystem on the planet and accounting for nearly 400 times the amount of carbon found in all living humans. Here lies a potential source of abundant energy (although we will have to assess whether the benefits outweigh the impacts of drilling). Other scientists have even found that the Geobacter bacteria found in human waste can convert sewage into fresh water and [produce electricity in the process](https://www.nasa.gov/vision/earth/technologies/18may_wastenot.html). It is now thought that one day [microbial fuel cells](https://www.nasa.gov/feature/ames/could-electricity-producing-bacteria-help-power-future-space-missions/) could power our phones, household appliances — and even spaceships. Investment in microbial fuel cells will remain seriously limited, however, until value-creation is based solely on utility instead of exploitation and profit, since capital cannot exploit the labour time of microbes! Modern science — which is looking more and more ‘presocialist’, i.e. systematic, holistic and dialectial-materialist (the Marxist method of assessing history as moving forward through material and social interactions)— has proven that humans depend on plants and bacteria for everyday life, [smashing the myth of The Individual](https://aeon.co/essays/science-and-metaphysics-must-work-together-to-answer-lifes-deepest-questions) — the world is powered by collectivism. Indeed, trees, plants and bacteria are our relatives. The world is one interconnected whole. The socialisation of the means of production, whereby the means of production are owned by humanity instead of capital, will thus be a ‘naturalising’ humanisation, plantification and microbiolisation of production. Other forms of existing carbon-negative production that could be scaled up include ‘sky mining’ for diamonds that are chemically identical to earth diamonds, another industry that only exists on a small scale under capitalism because of the lack of labour exploitation involved. Emissions-free, energy-dense nuclear power, is also an option. The initial impact of mining uranium on the environment must be re-assessed by an independent socialist state, but to prove our earlier point, nuclear has not been abandoned because of safety fears, but because its capital-intensity has become unprofitable as ever-growing total capital becomes harder and harder to expand by the relatively diminishing pool of human labour. In terms of worker safety, nuclear is [the safest form of energy production](https://amp.theguardian.com/science/political-science/2015/nov/04/why-eco-austerity-wont-save-us-from-climate-change). There is also the prospect of space-based solar power and associated wireless transmission, without the intermittency of night time or winter suffered by solar panels and wind turbines on Earth. This, too, however, has proven too expensive for investors who won’t invest without the prospect of a higher return. Reverting to overly local, small-scale production—which would make everything more expensive — is not an option. Sea levels are rising and we probably need to build incredibly vast dikes on every continent. Rising temperatures will also massively increase the demand for air conditioning, which will have to be powered by something abundant and emissions-free, like nuclear. But socialism never works? Clearly, we need world socialism. Countries that are arguably ‘semi-socialist’ or that are supposedly ‘working towards’ socialism, like China and Venezuela, still work to some extent on the basis of commodity-production. But even ‘fully’ socialist countries still have to trade with capitalist countries, and that means having to make concessions to capital, working within a world capitalist system and having to maintain military defences at the expense of the civilian economy. Nor can they fully plan their economies due to fluctuating, unpredictable foreign prices. The need to build up foreign currency also incentivises black markets. Again, because socialist production is based on utility, socialism will also be able to invest in things like mineralising CO2 (turning it permanently into basalt rock). This is not a silver bullet since it is water-intensive, but it could certainly be scaled up significantly where water scarcity is not an issue (or if [water can be ‘artificially’ produced](https://www.sciencedaily.com/releases/2007/10/071031125457.htm)). That we are not doing this is a travesty — but where it would be a productive industry under socialism, it is an unproductive industry under capitalism, since it does not offer a commodity that can be sold for profit (unless it is sold to the state using public debt, thereby creating no new value and contributing to money devaluation that [will eventually (imminently) cause hyperinflation](https://grossmanite.medium.com/with-hyperinflation-looming-and-capitalism-dying-socialism-is-becoming-an-economic-necessity-a031f9a746e0)). It would therefore have to be funded by taxes that eat into already thinning profit margins, and so these taxes are resisted by capitalists, who anyway run the capitalist state. They are incapable of changing the system, even as it threatens to produce an ecocidal holocaust. Capitalism is now effectively an extinction cult and can only continue to steer Earth into the sun. Socialism — which is anyway [becoming an economic necessity](https://fleetworld.co.uk/road-test-hyundai-i30/) for the first time — gives humanity the chance of steering Earth to safety, in the nick of time.

### 1AC---Plan

#### The United States federal government should substantially increase prohibitions on anticompetitive business practices by the private sector in accordance with socialism.

### 1AC---Solvency

#### Solvency:

#### The plan nationalizes the private sector---that transitions the economy to socialism

Foster ’13 [John Bellamy Foster, “Marx, Kalecki, and Socialist Strategy,” April 1, 2013, Monthly Review]

The principal strategic aim of the new Labour government would need to be directed at “changing the power relations in society, by capturing the key centres of the economic, social, and political power of the strongest capitalist groups.” Kalecki argued for “full central public control of banking, and finance, investment and foreign trade, and possibly the allocation of basic raw materials and commodities.” This required “direct social control” of key industrial sectors, either through “full nationalization” or the establishment of “some kind of public corporation.” The most important requirements here were “that those who direct and manage the [public] corporation have no financial interest other than their salaries,” and that if there were any private investors they be allowed “no control over policy or management.”38

All of this, Kalecki recognized, would be strongly resisted by capital, which would use all of its means, including sabotage, to block any changes that threatened its class position. Nevertheless, he argued that if the Labour Party were to exert its full strength at the end of war it would be able to generate a full-employment economy, turning this into a means of further ratcheting up working-class power. “This period, which may be short, will be the one of maximum opportunity for Labour, when full employment has generated a self-confident feeling among workers. Then will be the time to use Labour’s political power to the full; to strike boldly and strike hard. This will be the moment to the lay the basis for that continuing social revolution without which democratic socialist planning will remain a sterile dream.”39

Kalecki’s political-economic strategy for social change was aimed at fatally undermining what Marx had called capital’s main “lever” for the disciplining the working class: the existence of a relative surplus population or industrial reserve army. By removing this lever from capital, it would be possible to alter the rules of the game.40 The maximum response of capital in this class struggle, meanwhile, would be to attempt to generate what Steindl later called “stagnation as policy,” opposing all state policies to check unemployment and even stagnation, and increasing the reserve army of labor in order to preserve the social power of the capitalist class—even at the expense of total profits.41

As it turned out in Britain in the 1940s and thereafter, Labour came to power but did not—even during its maximum influence—exert its full power in a project of class transition in line with the course that Kalecki had proposed.42 With the rise of Thatcherism in Britain and Reaganism in the United States in the 1970s and ‘80s, capital itself, as Steindl observed, sought to break with the political business cycle, putting in its place the regressive “political trend,” now known as neoliberalism. This was an attempt to turn back the clock to a pre-Keynesian-style economic regime aimed at increasing unemployment, in order to squeeze wages and impose greater class discipline on workers. At the same time a financially driven casino economy was opened up for the benefit of capital.43 Full employment and wage inflation were depicted once again as threats to prosperity, in what Steindl referred to as “the return of the Bourbons” in economic theory.44

The economic effects of this restoration of pre-Keynesian economics are evident in the trends in the United State over the last four decades or so. The percentage of production and nonsupervisory workers in total private-sector employment has remained constant at about 83 percent of all workers in both 1965 and 2011. Nevertheless the share of such workers in total private-sector payroll dropped from 76 percent in 1965 to 56 percent in 2011, while their share of GDP fell over the same period from over 30 percent to about 20 percent.45 Under these conditions even a mainstream economist such as Paul Krugman was compelled to declare in 2012, that we are “back to talking about capital versus labor…[an] almost Marxist sort of discussion.”46 Moreover, in trying to discern why full-employment policy is off limits at the top of U.S. society even in the context of deep stagnation and growing inequality, Krugman in his 2012 book End This Depression Now! could find no other rational explanation than the one offered by Kalecki—namely that capital saw full employment as a threat to its total social power.47

In Kalecki’s view, the capitalist class’ entrenched opposition to long-run full employment through government intervention meant that workers had no recourse but to push forward on their own in the struggle for higher wages and full employment and to seek on that basis a full transition to socialism. “Labour,” he warned in 1942,must have no illusions about the great fight that will have to be waged against these [capitalist interest] groups. They will resist fiercely because what is at stake is not so much their profits as their personal and social power, which takes two forms: power in society as a whole, and power over workers’ industry. As long as the first form of power remains, all the efforts of the workers in the factories and through the trade unions to diminish the second form of power can only have limited success. The fight for workers’ rights in industry and for more effective workers’ representation through such things as works’ councils and production committees is, of course, of very great importance and…it has a vital part to play in the total struggle against the capitalists. But it can never be a substitute for the necessary political fight to destroy the power wielded over society as a whole by the great capitalist interest-groups….

Their power is in fact a class power and, as long as this class power remains unbroken, the ability of the leading capitalist groups to run things in their way—and, at worst, to sabotage—is enormous….It can only be broken by destroying not merely their political influence, but what is its real basis, their economic power in the great productive forces over which they exercise practically unchallenged control….

The important thing, however, is that Labour should not be afraid of the consequences of the social revolution within industry, but should make itself master of the situation, not by trying to damp down the mood of the workers, as did the leaders of the Popular Front in France, but by directing it against the opponents of democratic planning.48

Kalecki’s political-economic analysis here was based, as he explained, on an “isolated” capitalist economy.49 As historical events unfolded, not only did the Labour Party fail to act decisively in the working-class interest, but also the increased militarism and imperialism during the Cold War, as he was later to observe, altered the picture considerably. Increased armaments spending produced a higher level of employment than in the pre-war years, while at the same time incorporating a considerable part of the working class within a regressive nationalist-imperialist and chauvinistic project—thereby undermining labor’s capacity to unite to promote its genuine interests in the class struggle.50 In the highly globalized monopoly-finance capitalism of today the contradictions facing the working-class movement are even more complex. Capital in the form of multinational corporations is increasingly mobile globally and able to divide and conquer labor internationally, holding down wages and unit labor costs worldwide as workers of different nationalities are pitted against each other.51

Nevertheless, Kalecki’s arguments on not accepting the economic rationale of the system and insisting on the need to wrest social power from the capitalist class remain crucial today. The danger of the profit-squeeze theory of economic crisis under capitalism has always been that it suggested to workers that the pursuit of their own democratic, egalitarian aspirations led directly to economic slowdown, worsening their situation. As Kalecki put it, “There are certain ‘workers’ friends’ who try to persuade the working class to abandon the fight for wages in its own interest, of course. The usual argument used for this purpose is that the increase of wages causes unemployment, and thus is detrimental to the working class as a whole.”52 This position is visible in the United States today with the debate over whether to introduce a paltry increase in the minimum-wage.53

The arguments that Marx and Kalecki leveled against the profit-squeeze theory of crisis have proven correct not only in their day but ours as well. Decade after decade we have seen a declining share of wages (and total compensation) in U.S. GDP—with the share of the bottom 80 percent of private-sector workers plummeting. At the same time the share of GDP represented by management, supervisory, and other nonproduction employees in the private sector has been rising dramatically.54 Meanwhile, capital’s overall share of income has grown by leaps and bounds. Rather than a stable framework of accumulation, this has led to stagnation, financial instability, and deteriorating conditions for workers.

Kalecki’s political-economic conclusions were in line with those of Marx, who declared, in his opposition to the profit-squeeze argument, that the struggle of workers at every point along the way was a rational one, reflecting the superiority of the political economy of the working class over the political economy of capital. Nevertheless, the ultimate goal of the working-class struggle was not to strive for this or that gain within the system, but rather to replace the capitalist system with a socialist one controlled by the direct producers. As Marx stated in the closing sentence of Value, Price and Profit: “Instead of the conservative motto: ‘A fair day’s wages for a fair day’s work!’ they [the working class] ought to inscribe on their banner the revolutionary watchword: ‘Abolition of the wages system!’”55

#### DPS is the optimal economic structure---avoids the challenges that accompanied the Soviet model

Kotz 8 - economics professor at Amherst (David, https://people.umass.edu/dmkotz/What\_Ec\_Struc\_Soc\_08\_03.pdf, emuse)

The economic problems of actually existing socialism were not inherent in socialism, or in economic planning. They were structural problems of the particular form of planning that first arose in the Soviet Union and later appeared in other Communist Party ruled states. All of the economic problems listed in section 2 above were due to a key feature of that form of socialism: an absence of popular participation in decision-making in the economy and the state. There were various problematic policies, but the foregoing structural feature was the underlying source of the economic problems.5 Economic activity in any system will serve the needs of those who have power within that system. In a market economy ordinary consumers have a limited power -- they can decide not to purchase something. Hence, producers have be concerned with what ordinary consumers want to buy, since that is something they cannot fully control, try though they may. In Soviet-type planning, those actors with power were able to get high quality goods produced for them. No one ever claimed that Soviet weapons were of low quality, yet they were produced via the system of central planning. Soviet military leaders, and the ministers in charge of production of military equipment, were powerful and could demand high quality products. Similarly, some of the industrial ministers in civilian sectors had the power to demand high quality products, and some Soviet industrial products were world class.6 Special enterprises produced housing for high officials, and the quality of such housing was excellent.7 Powerful Soviet officials exercised their power by their ability to discipline or demote top enterprise officials if product quality was deemed unsatisfactory. It was an effective incentive. By contrast, ordinary households had almost no power in the Soviet planning system. Enterprise managers were not rewarded and punished based on how well they satisfied household consumers. The environmental damage from Soviet-type central planning resulted from an unaccountable leadership's focus on economic growth. The absence of democratic rights for the population prevented the emergence of a strong environmental movement that could have insisted on changed priorities. For economic planning to work effectively, power must be dispersed among all of the relevant groups in the economy, not monopolized by unaccountable high officials. Models of participatory planning have been elaborated by a number of authors (Devine, 1988, 2002; Albert and Hahnel, 1991). They involve democratic participation both in the economy and the state, which must be closely intertwined in a socialist system. These models share the following five principles: 1) wide participation in decision-making by those affected by a decision; 2) representation of the population as workers, community members, and consumers on decision-making bodies; 3) a decision-making process based on negotiation and compromise, to handle the inevitable existence of opposing interests among different groups; and 4) an equitable sharing of the benefits and burdens of economic and political life. If consumer representatives sat on enterprise boards and on regional and national level planning bodies, they could insist that enterprises produce high quality consumer goods that people would like to purchase, with the power to set rewards and penalties to back up their demands. If the top political leaders are dependent on popular support for staying in office, they would be under pressure to make the system work to meet the needs of ordinary people. Democratic institutions, which in a capitalist system are always limited by the enormous political power of the rich, would work far better in a socialist system that has no class of wealthy property owners. The promise of getting rich is not necessary to build an efficient, innovative economy. "Innovation Institutes" could fund the testing out of new ideas, new products, and new services. Someone with a proposal for a new restaurant or service establishment could apply for funds and leasing rights to carry out their proposal, without departing from the principle of public ownership of productive property. Modest material rewards should be sufficient to encourage innovation and new and varied services, given the presence in any population of many individuals who are personally inclined to launch new projects. By providing representation for all constituencies in the making of allocation decisions, participatory planning would provide channels for all groups to see that their needs are addressed. It also recognizes the existence of conflicting interests even in a socialist society and provides institutions in which groups can negotiate and reach compromises. For example, enterprise boards having representatives of workers, consumers, and the community could strike a reasonable balance among workers' interest in not being overworked, consumers' interest in affordable and well-made products, and the community's interest in avoiding pollution of air and water. In a country having a relatively low living standard, a system of participatory planning would allow the population to demand a high rate of economic growth though democratic decisions about the resources to be devoted to investment and improved technologies. For participatory planning to work effectively, economic decisions should be as decentralized as possible to facilitate maximum participation by affected parties. Old-style central planning was overly centralized. Some economic decisions must be made at the center, but many can be made at a regional or local level. The claim that a system based on free markets is superior to any other in efficiency, innovation, and growth has no foundation. While a capitalist market economy can develop the forces of production and bring a rising level of material consumption for part of the population, history shows that it has been unable to build a society that meets the needs of the entire population. Only socialism can assure everyone material comfort, security, and a guaranteed opportunity to participate in productive labor, without some exploiting others. Only socialism can build a society based upon the better aspects of human nature, rather than its baser aspects, and finally enable people to become the real masters of their fate. But socialism can carry out this historic mission only if it embraces democracy and popular participation as the basis of its institutions.

#### American DPS goes global---serves as a shining city on a hill, removes obstacles, and offers assistance

PSL 8 (Party for Socialism and Liberation, [https://liberationschool.org/the-goal-of-socialism-peace-and-equality-amid-plenty/#](https://liberationschool.org/the-goal-of-socialism-peace-and-equality-amid-plenty/), emuse)

Experiences in socialist construction Thanks in great part to the practical experience of Lenin in making revolution, 21st-century socialists have a wealth of experience on which to base further conclusions. Marxists have been able to use accumulated theory and practice in order to lead revolutions in Russia, China, Korea, Yugoslavia, Cuba and many other countries. While there have been vast differences in the experiences of those socialist revolutions, they share one common feature: The socialist revolutions of the 20th century took place in countries where the level of productive forces was very low compared to the imperialist countries. Every successful revolution faced the primary task of developing their economies—while under constant military threat by world imperialism. For that reason, Lenin described the challenges of building communism in 1920 in very practical terms: “Communism is Soviet power plus the electrification of the whole country.” There was no hope in building socialism if the economy remained underdeveloped. Because of the combined challenges of developing the productive forces under the gun of world imperialism, no socialist revolution has yet reached a stage where the “withering away of the state” could be imagined. Imperialism has seized on any weakness in the revolutionary states in order to foment counterrevolution. Nevertheless, the working classes in the countries that have set out to build socialism have made tremendous gains. Russia’s working class in 1917 was 4 percent of the population. Within 50 years, it was the second-most powerful economy in the world. China had never been able to feed its entire population prior to the revolution. Millions died during famines in China prior to 1949. Yet after the 1949 revolution, for the first time the economy was able to feed the largest population in the world. Despite immense pressure from imperialism, Cuba has been able to achieve tremendous gains—despite the collapse of the Soviet Union in 1991. Cuban workers enjoy among the highest living standards of any of their counterparts in Latin America or much of the oppressed world. The continued military and economic dominance by world imperialism—first and foremost by U.S. imperialism—has made the transition to socialism that Marx and Lenin described so far impossible. The workers’ states have needed to devote a considerable part of their social development toward the strengthening of the proletarian dictatorship—the army and police—in order to defend against invasion or counterrevolution. Taking that next step will require a society based on the dictatorship of the proletariat in the United States. Toppling the world’s dominant capitalist power would not only lift a tremendous burden from the workers around the world who are trying to engage in socialist construction. It would put at the disposal of the world working class the tremendous wealth produced by the U.S. working class. All the social wealth extracted from the oppressed world by U.S. corporations and mines could be used to reverse the effects of centuries of colonial and imperialist exploitation. A revolution in the United States would undercut the economic basis for divisions among the working class that promote racism, sexism and homophobia. Socialism is a system of peace, justice and equality. The road to socialism begins with revolution in the United States.

#### Proletarianization makes class struggle inevitable---the aff accelerates and properly directs movements

Reese 20 - author of Socialism or Extinction and The End of Capitalism: The Thought of Henryk Grossman (Ted, <https://www.amazon.com/Socialism-Extinction-Automation-Capitalist-Breakdown-ebook/dp/B081FHF2ZQ>, emuse)

Those who are lucky enough to find or remain in work as the capitalist crisis deepens will see their pay and conditions savagely forced down. In April 2018, the World Bank recommended yet more deregulation in a report that said “high minimum wages, undue restrictions on hiring and firing and strict contract forms all make workers more expensive vis-à-vis technology”.[437] International capital is preparing a major assault on international labour in order to accelerate moves towards automation. Even if the next crash is not a final breakdown, significant sections of the middle classes would be proletarianised and impoverished and the reserve army of labour would swell. Class struggle would explode. Capitalists could be forced to slow down or stop the introduction of new automation by, say, a strong and militant neo-Luddite or trade union movement and – the usual driver for concessions – the desire for social peace. But the contradiction persists: capital accumulation, and staying ahead of or keeping up with competitors, requires higher productivity and therefore labour-saving innovation. The deeper capitalism sinks into crisis the more necessary it becomes to raise productivity. That is, the more workers are replaced by robots, the greater the underproduction of surplus value becomes, and yet the system will need to respond by replacing more workers with robots. If it cannot do this then capital goes unvalorised and the economy crashes. From the perspective of the bourgeoisie, a strong neo-Luddite or trade union movement would sooner or later have to be crushed. In an article in January 2018 headlined “When the next recession hits, the robots will be ready”, the Washington Post pointed out that innovations happen quickest “when employers slash payrolls going into a downturn and, out of necessity, turn to software or machinery to take over the tasks once performed by their laid-off workers”.[438] Pointing to growing expectations by economists of a financial crisis in 2020, the paper adds that the “next wave of automation won’t just be sleek robotic arms on factory floors. It will be ordering kiosks, self- service apps and software smart enough to perfect schedules and cut down on the workers needed to cover a shift. Employers are already testing these systems. A recession will force them into the mainstream.” Striking statistics from an upcoming paper by economists Nir Jaimovich and Henry Siu “found that 88% of job loss in routine occupations occurs within 12 months of a recession. In the 1990- 1991, 2001 and 2008-2009 recessions, routine jobs accounted for ‘essentially all’ of the jobs lost. They regained almost no ground during the subsequent recoveries.”[439] Automation under capitalism is therefore accelerating the trend towards proletarianisation, higher levels of poverty and the underproduction of surplus value. It is the sharpest of sharpening contradictions, a vicious circle from which capitalism cannot escape. It is a trend which increasingly threatens a final breakdown. The ‘Leninist’ road to socialism[440] – whereby working class organisations (soviets (workers’ councils), communes etc) effectively form an independent state and then, when strong enough, destroy what is left of the capitalist state – of course seems to be dismissed now more than ever – by liberals who claim that the demise of the Soviet Union signalled the end of history;[441] by the anarchists and autonomists who believe a leap into ‘full communism’ can be achieved without the socialist stage; and by ‘democratic socialists’ who claim socialism can be built via bourgeois democracy by voting through ‘socialist policies’. Then there is the notion that Marx and Lenin are redundant because the supposed protagonist of their revolutionary strategy – the industrial proletariat – is dead or irrelevant. There are several problems surrounding this. The accusation about the industrial proletariat is made, in slightly different ways, not just by liberals but by some anarchists, who do not claim that the industrial proletariat is dead but persist with the myth that it is the protagonist of the Leninist revolution. The Bolsheviks focused on agitating among the urban or industrial proletariat because that was the most efficient use of scarce resources, with the intention that the message would then spread outwards to the wider proletariat as a whole. This accusation that Leninists ignore the wider proletariat is often a projection of valid criticisms of some ‘Trotskyists’, who, while posing as Leninists, or at least distorting Leninism, do overemphasise the importance of the industrial worker. This is because Trotskyists – who for the same reason tend to be de facto pro-imperialist (by giving critical support to the Labour Party, for example) – tend to derive from labour aristocratic positions in trade unions and universities. Lenin though is renowned for criticising socialists who limited their agitation to “trade union consciousness” or “economism” – ie, simply supporting, or tailing, working class demands, without advocating an independent (non-social democratic) working class party or proletarian dictatorship (or, before that, the overthrow of tsarism) – and for his ruthless criticism of a labour aristocratic minority which misled the masses with solely reformist demands. Hence why he said revolutionaries had to “dig deeper into the real masses” of the poorest workers, who had the least to lose and the most to gain. This meant that, in Russia, he saw the need for an alliance between workers and poor peasants, an alliance that Leon Trotsky initially rejected. Today, real Leninists still see the poorest and most oppressed workers as the main protagonists of revolution. The claim that the industrial proletariat is dead is either dishonest or smacks of ‘first world’ myopia. The industrial proletariat may have shrunk in the imperialist nations over the past 40 years but internationally it has grown spectacularly. In 2010, 79%, or 541 million, of the world’s industrial workers lived in ‘less developed regions’, up from 34% in 1950 and 53% in 1980, compared to the 145 million industrial workers, or 21% of the total, who in 2010 lived in the imperialist countries.[442] This shift is even greater in the manufacturing industry, since in emerging nations manufacturing forms a much higher proportion of total industrial employment than in imperialist countries, and therefore, as John Bellamy Foster et al point out, “the broad category of ‘industrial employment’ systematically understates the extent to which the world share of manufacturing has grown in developing countries”, citing figures for the US and China showing these ratios to be 58.1% and 75.2% respectively.[443] “Extrapolating these two ratios to ‘more developed’ and ‘less developed’ countries as a whole, 83% of the world’s manufacturing workforce lives and works in the nations of the Global South,” says John Smith in Imperialism in the Twenty First Century.[444] Based on the integration of ‘Southern’ workers into the global economy, the IMF has also attempted to take into account qualitative as well as quantitative changes, calculating an “export-weighted global workforce” by multiplying the numerical growth of the workforce by the increasing degree to which they produce for the global market rather than the domestic market. Since Southern-manufactured exports grew more than twice as fast as GDP during the quarter-century leading up to the global crisis in 2007, the IMF estimates that the effective global workforce quadrupled in size between 1980 and 2003. But even within the imperialist nations, where the industrial working class has declined bo

th absolutely and relatively, Smith points to “deepening proletarianisation”, saying that “the proletarians have increased their already overwhelming predominance within the economically active population [EAP].... Between 1980 and 2005 the proportion of waged and salaried workers in total EAP in ... the developed nations steadily rose, from 83% to 88% (in 2005, around 500 million people), indicating deepening proletarianisation in these countries.”[445] In the US, it is even higher, with waged workers as a proportion of the EAP increasing from 90.6% in 1980 to 93.2% in 2011.[446] Because of distortions made by the ILO’s methods, this undoubtedly underestimates or obscures the size of the labour aristocracy, something we will come back to further on, but the trend is nevertheless clear, with more and more workers being forced into low-paid services work. Obviously with China, India and the former Soviet bloc being integrated into the global economy, 1.47 billion workers joined the global capitalist workforce very suddenly. But this does not distort the overall trend. With their supposed bias for the industrial proletariat, Leninists are accused of failing to recognise the multiple sections of the working class or its fragmentation. But far from ignoring the heterogeneous make-up of the working class, this is one of the factors that contribute to the Leninist conclusion that a vanguard party is necessary – to unite the disparate and sectional struggles of the working class into one unstoppable force. Likewise, the fact recognised across the left that technological advances have fragmented the working class, that they have increased unemployment and underemployment and therefore reduced workers’ leverage in their struggles against their bosses, reflected in the imperialist countries by the low number of strikes since the 1980s, must mean that the state is the primary battleground. We are already seeing this in the re-emergence of social democratic movements (see the previous chapter), whereby downwardly mobile labour aristocracies are becoming slightly more antagonistic towards the ruling class, and are attempting to harness the power of the working class as a whole, in what is essentially a fight with the middle and ruling classes over allocations of surplus value. These strawman accusations against Lenin misrepresent or misinterpret his definition of the proletariat, which followed Marx’s. The main feature of the proletariat as a class is not its direct link with the means of production but rather its separation from them. In other words, the proletariat is first and foremost characterised as a class by the fact that it does not own the means of production and has to work for wages. The salient feature is not what differentiates them, but what unites them. The more a worker is dependant on selling their labour power for survival the deeper their proletarianisation. Indeed, it is the fact that the industrial proletariat is shrinking relative to the working class as a whole, relegating a significant proportion of previously privileged workers into the poorer sections of the working class, that sees the mass of the latter grow numerically in strength. As the mass of exploited manual workers decreases due to scientific and technological progress, particularly automation, the mass of exploited intellectual workers, ie white collar employees, engineers and scientists (who increasingly contribute to commodity production) also increases in reverse proportion. The casualisation of university employment in the past few years is a case in point. In the US, although union membership stood at a lowly 10.7% of the workforce at the start of 2019, the unionisation of traditionally non- unionised white collar labour almost doubled between 2010 and 2017.[447] According to the Pew Research Center, the median wealth (assets minus debts) of the US middle class fell by 28% from 2001 to 2013.[448] People on middle incomes[449] accounted for 50% of the US adult population in 2015, down from 61% in 1971, while the poorest tier of the working class comprised 20% of the population in 2015 compared to 16% in 1975. The number of people receiving supplemental nutritional assistance, or food stamps, exploded from 26 million in 2007 to 46 million in 2012.[450] And 63% of the population say they have less than $500 in personal savings.[451] At the same time private and household debt has gone through the roof. In the 1970s, personal and credit card debts shot up by 238% relative to the 1960s. In the 1980s it shot up on the previous decade by another 318% and by another 180% in the 1990s.[452] According to the Federal Reserve Bank of New York, household debt rose to a record $13.5 trillion in the fourth quarter of 2018, nearly 7% higher than in the third quarter of 2008. Even more troublingly, a record number of US Americans were three months or more behind on repayments for car loans (more than 7 million). As New York Times journalist Amy Chozick noted in May 2015, “the once ubiquitous term ‘middle class’ has gone conspicuously missing from the 2016 [presidential] campaign trail, as candidates and their strategists grasp for new terms for an unsettled economic era [in which] the middle class has for millions of families become a precarious place to be”.[453] Capitalism in the age of automation increasingly turns the majority of the population into proletarians and, in doing so, creates all economic, social and political prerequisites for the system’s downfall. The deeper the system sinks into crisis, the more proletarians are created, through unemployment, wage cuts and so on, and the more radical they are likely to become. This is borne out by the real development of the international proletariat. While we have already seen that the industrial proletariat has grown enormously, according to the ILO, the world’s “economically active population” (EAP) grew from 1.9 billion in 1980 to 3.1 billion in 2006.[454] Almost all of this numerical growth took place in the ‘emerging nations’, now home to 84% of the global workforce, 1.6 billion of whom worked for wages. The other one billion were small farmers and a multitude of people working in the ‘informal economy’,[455] which is, according to Mike Davis “the fastest growing social class on earth”.[456] While the industrial proletariat in the ‘Global South’ has grown enormously since 1980, its share of the South’s total workforce has been much more modest, rising from 14.5% in 1980, to 16.1% in 1990, to 19.1% in 2000, to 23.1% in 2010[457] – because the absolute growth of the non-industrial proletariat is even greater. Meanwhile, agricultural employment in the Global South has declined to 48% of its EAP, down from 73% in 1960, and from “approximately one-third” to just 4% of EAP in developed countries. However, the ILO reports: “Despite the declining share of agricultural workers in total employment, the absolute numbers of those engaged in agriculture are still rising, most notably in south Asia, east Asia, and sub-Saharan Africa.”[458] The other significant component of the growing proletariat? The unemployed. Smith reports that, apart from China, “no economy has grown fast enough to provide jobs to the legions of young people entering the labour market and the rural exodus to swollen cities in search of work. Even at the zenith of export-oriented industrialisation the ILO reported that ‘in the late 20th century, manufacturing ceased being a major sector of employment growth, except in east and southeast Asia’.” Senior ILO economist Nomaan Majid said the commerce sector, not manufacturing, “is the main employment growth sector in both low- and middle-income groups”.[459] This links back to what we saw in chapter four – that even in the developing nations, the trend towards automation is accompanied by growing unproductive work and unemployment. The numerical growth of the working class has been coupled with a massive attack on its wages, further deepening proletarianisation. In a striking example of how constant capital rises relative to variable capital, John Lanchester writes in the London Review of Books that in the US: “In 1960, the most profitable company in the world’s biggest economy was General Motors (GM). In today’s money, GM made $7.6bn that year. It also employed 600,000 people. Today’s most profitable company employs 92,600. So where 600,000 workers would once generate $7.6bn in profit, now 92,600 generate $89.9bn, an improvement in profitability per worker of 76.65 times. Remember, this is pure profit for the company’s owners, after all workers have been paid. Capital isn’t just winning against labour: there’s no contest. If it were a boxing match, the referee would stop the fight.”[460] Whereas wages in the US rose by 350% between 1927 and 1977, real terms growth has since been in decline. In Britain, wages grew at an annual average of 2.9% in the 1960s and 70s, 1.5% in the 90s and 1.2% in the 2000s. Between 2007 and 2015 that trend accelerated at an unprecedented rate, with real household wages falling by 10.4%.[461] The Resolution Foundation said the 2010s would be the worst decade for UK wage growth since the late 18th century. But as bad as the attack on wages in imperialist countries has been, it has been even worse in the countries imperialism plunders, where workers are of course already paid much less. According to the ILO’s World of Work Report 2011, since the early 1990s the “share of domestic income that goes to labour ... declined in nearly three-quarters of the 69 countries with available information”. While “the wage share among advanced economies has been trending downward since 1975”, it “occurred at a much more moderate pace than among emerging and developing economies – falling roughly nine percentage points since 1980”.[462] In contrast, the fall in Asia between 1994 and 2010 was around 20%. The imperialist countries have also seen a decline in full-time self- employment and self-employed income. This has included a continuing shrinkage in the number of small family farmers, indicating the proletarianisation of portions of the lower middle classes. Michael Elsby’s study The Decline of US Labor Share reports that the “rise in inequality is even more striking for proprietors’ income than it is for payroll income. In 1948 the bottom 90% of employees earned 75% of payroll compensation. By 2010 this had declined to 54%. For entrepreneurial income, however, this fraction plummeted from 42% in 1948 to 14% in 2010.”[463] A separate study of 2014 data by the US Small Business Administration suggests the same pattern regarding millennials (generally defined as people born between 1985 and 2004). “Fewer than 4% of 30 year-olds reported they were in full-time self-employment – a proxy for entrepreneurship – compared with 5.4% of Generation X-ers [1965 and 1984] and 6.7% of Baby Boomers [1945 and 1964] at the same age,” the FT reported.[464] Furthermore, the pace of decline in wages has accelerated in recent years, “with the wage share falling more than 11 percentage points between 2002 and 2006. In China, the wage share declined by close to 10 percentage points since 2000.”[465] Africa’s workers saw their share of national income reduced by 15% in the two decades since 1990, again “with most of this decline – 10 percentage points – taking place since 2000. The decline is even more spectacular in north Africa, where the wage share fell by more than 30 percentage points after 2000.”[466] Latin America saw the lowest decline, of 10% since 1993, and most of it before 2000, undoubtedly due to strong workers’ organisation and resistance, represented by the left-wing ‘Pink Tide’ in Venezuela,[467] Bolivia, Brazil and Argentina. As mentioned, mainstream economic accounting methods underepresent the size of the middle classes and labour aristocracy – which are bound to be proportionately bigger in imperialist nations – and do not take account of sharply increasing inequality between skilled/professional and unskilled workers or of income to capital that has been classified as income to labour, such as bonuses paid to bankers and wages and sponsorship of sports professionals etc, meaning the real extent of the fall in labour’s share is even higher, and considerably so. Elsby attempts to challenge these distortions, writing that in the US, the Bureau of Labor Statistics’ (BLS) calculation of a decline of 3.9% in the share of national income for labour over 1987-2013 becomes a 10% decline when the highest paid 1% of employees are excluded, and a 14% decline when the highest paid 10% are excluded. Based on this more honest method, the lowest 90% of wage earners (84% of the US’s total economically active population) actually earned 42% of the total payroll in 1980 and just 28% in 2011. Elsby also found that the fall for labour has accelerated as time has progressed, declining by twice as much between 2000 and 2011 as in the previous two decades.[468] Again, the trend towards deepening proletarianisation is clear. The material basis for a position of relative privilege among the lower middle classes and labour aristocracy is disappearing. The proletariat is numerically stronger than ever, especially as an international class. ‘Neoliberal globalisation’, which promised to produce prosperous nations of entrepreneurs and homeowners, has instead produced capitalism’s grave-diggers. All this is confirmed by the fact that inequality has hit record levels. In 2018 and 2019, Oxfam found that the 26 richest billionaires owned as much in assets as the 3.8 billion people who make up the poorest half of the planet’s population. The number had been 61 in 2016 and 43 in 2017, showing again that capital continues to centralise. Marx wrote that the concentration of wealth at one pole depended on the concentration of poverty at the other. And lo: the wealth of more than 2,200 billionaires across the globe increased by $900bn in 2018, a 12% increase against a fall of 11% in the wealth of the poorest half of the world’s population. Between 1980 and 2015, the global economy grew by 380%, yet the number of people living in poverty on less than $5 (£3.20) a day increased by more than 1.1 billion. In 1980, $2.20 of every $100 went to the world’s poorest 20%, but in 2003 that figure had fallen to 60 cents.[469] Inequality is most acute between rich and poor countries but it is growing within rich countries as well. In the US, for example, according to the Federal Reserve, the richest 1% owned a record-high 38.6% of the country’s wealth in 2016, nearly twice as much as the bottom 90%. Anti-socialists will still ignore all this or proclaim that the proletariat is no longer a revolutionary class because living standards are generally much higher than 100 years ago, claiming that really “we are all middle class now” or making shallow observations such as “capitalism works because workers have mobile phones!” as if cracking some kind of insightful gotcha that disproves Marxism. This ignores how as the rate of exploitation increases, the value of necessary labour falls, making the commodities workers need to buy to live cheaper. It ignores how the needs of the working class change as capitalism develops: workers need smartphones and laptops in this day and age of 24-hour connectivity if they are even to be considered employable, and so the cost of a smartphone is included in the value of labour power. It also ignores that workers in some countries may have access to better infrastructure than in others (indeed, although no technology has ever scaled as quickly as the mobile phone, while five billion people now have mobile phones, only around 2.5 billion of world’s population presently have a smartphone). But most of all, it is ignorant of the fact that capitalism is breaking down, which will impoverish and radicalise the working class. The revolutionary power of the working class is latent.

# 2AC

## Adv---Crisis

### 2AC---DA---Transition

#### Capitalism makes instability and unrest inevitable---transition gets the public on board

Czarnecki '20 [Sean; 1/20/20; senior reporter for PR at Business Insider; "Edelman Trust Barometer: Most of world’s population down on capitalism," https://www.prweek.com/article/1671233/edelman-trust-barometer-worlds-population-down-capitalism/]

Trust in both society’s institutions and capitalism is strained despite strong economic performance, according to Edelman’s 2020 Trust Barometer. The study found that 56% of the global population said "capitalism as it exists today does more harm than good in the world." Most people also said traditional institutions, such as government, media, business and NGOs, don’t have a vision for the future that they can get behind. Fewer than half of respondents said government (35%), media (35%) and business (41%) have a vision for the future. NGOs received the highest approval at 45%. Now in its 20th year, the 2020 Trust Barometer’s results upended conventional wisdom that GDP growth correlates with higher trust, said Edelman global CEO Richard Edelman. This is the result of the broad belief that prosperity is not being fairly distributed. The study was originally built on the work of political scientist Francis Fukuyama, who advocated that economic mobility supported by a strong legal system could sustain and develop trust. However, events following the 2008 financial crisis and the ensuing recession proved to Edelman that model may "not [be] sufficient," he said. While much of the media narrative about socialism has focused on young people, Edelman said his work found little difference among age groups, noting the belief that capitalism does more harm than good is "universal." Fifty-three percent of respondents over the age of 55 said capitalism does more harm than good, as was the case with 57% of the 18-to-34 age group and 59% of people ages 35 to 54. "The essential truth is: people are scared," Edelman added. "Their fears are overcoming their hopes." In 15 of the 28 markets surveyed, most people said they will not be better off in five years, including the U.S., where only 43% of respondents said so, representing a 7% decline.

### 2AC---Crisis---Growth

#### **Socialism is more efficient than capitalism**

Alexander 14 - acclaimed political commentator whose work is regularly praised by top academics (Scott, <https://slatestarcodex.com/2014/09/24/book-review-red-plenty/>, emuse)

There’s a very settled modern explanation of the conflict between capitalism and communism. Capitalism is good at growing the economy and making countries rich. Communism is good at caring for the poor and promoting equality. So your choice between capitalism and communism is a trade-off between those two things. But for at least the first fifty years of the Cold War, the Soviets would not have come close to granting you that these are the premises on which the battle must be fought. They were officially quite certain that any day now Communism was going to prove itself better at economic growth, better at making people rich quickly, than capitalism. Even unofficially, most of their leaders and economists were pretty certain of it. And for a little while, even their capitalist enemies secretly worried they were right. The arguments are easy to understand. Under capitalism, plutocrats use the profits of industry to buy giant yachts for themselves. Under communism, the profits can be reinvested back into the industry to build more factories or to make production more efficient, increasing growth rate. Under capitalism, everyone is competing with each other, and much of your budget is spent on zero-sum games like advertising and marketing and sales to give you a leg up over your competition. Under communism, there is no need to play these zero-sum games and that part of the budget can be reinvested to grow the industry more quickly. Under capitalism, everyone is working against everyone else. If Ford discovers a clever new car-manufacturing technique, their first impulse is to patent it so GM can’t use it, and GM’s first impulse is to hire thousands of lawyers to try to thwart that attempt. Under communism, everyone is working together, so if one car-manufacturing collective discovers a new technique they send their blueprints to all the other car-manufacturing collectives in order to help them out. So in capitalism, each company will possess a few individual advances, but under communism every collective will have every advance, and so be more productive. These arguments make a lot of sense to me, and they definitely made sense to the Communists of the first half of the 20th century. As a result, they were confident of overtaking capitalism. They realized that they’d started with a [disadvantage] – czarist Russia had been dirt poor and almost without an industrial base – and that they’d faced a further [disadvantage] in having the Nazis burn half their country during World War II – but they figured as soon as they overcame these [disadvantages] their natural advantages would let them leap ahead of the West in only a couple of decades. The great Russian advances of the 50s – Sputnik, Gagarin, etc – were seen as evidence that this was already starting to come true in certain fields. And then it all went wrong. II. Grant that communism really does have the above advantages over capitalism. What advantage does capitalism have? The classic answer is that during communism no one wants to work hard. They do as little as they can get away with, then slack off because they don’t reap the rewards of their own labor. Red Plenty doesn’t really have theses. In fact, it’s not really a non-fiction work at all. It’s a dramatized series of episodes in the lives of Russian workers, politicians, and academics, intended to come together to paint a picture of how the Soviet economy worked. But if I can impose a thesis upon the text, I don’t think it agreed with this. In certain cases, Russians were very well-incentivized by things like “We will kill you unless you meet the production target”. Later, when the state became less murder-happy, the threat of death faded to threats of demotions, ruined careers, and transfer to backwater provinces. And there were equal incentives, in the form of promotion or transfer to a desirable location such as Moscow, for overperformance. There were even monetary bonuses, although money bought a lot less than it did in capitalist countries and was universally considered inferior to status in terms of purchasing power. Yes, there were [Goodhart’s Law](http://en.wikipedia.org/wiki/Goodhart%27s_law) type issues going on – if you’re being judged per product, better produce ten million defective products than 9,999,999 excellent products – but that wasn’t the crux of the problem. Red Plenty presented the problem with the Soviet economy primarily as one of allocation. You could have a perfectly good factory that could be producing lots of useful things if only you had one extra eensy-weensy part, but unless the higher-ups had allocated you that part, you were out of luck. If that part happened to break, getting a new one would depend on how much clout you (and your superiors) pulled versus how much clout other people who wanted parts (and their superiors) held. The book illustrated this reality with a series of stories (I’m not sure how many of these were true, versus useful dramatizations). In one, a pig farmer in Siberia needed wood in order to build sties for his pigs so they wouldn’t freeze – if they froze, he would fail to meet his production target and his career would be ruined. The government, which mostly dealt with pig farming in more temperate areas, hadn’t accounted for this and so hadn’t allocated him any wood, and he didn’t have enough clout with officials to request some. A factory nearby had extra wood they weren’t using and were going to burn because it was too much trouble to figure out how to get it back to the government for re-allocation. The farmer bought the wood from the factory in an under-the-table deal. He was caught, which usually wouldn’t have been a problem because everybody did this sort of thing and it was kind of the “smoking marijuana while white” of Soviet offenses. But at that particular moment the Party higher-ups in the area wanted to make an example of someone in order to look like they were on top of their game to their higher-ups. The pig farmer was sentenced to years of hard labor. A tire factory had been assigned a tire-making machine that could make 100,000 tires a year, but the government had gotten confused and assigned them a production quota of 150,000 tires a year. The factory leaders were stuck, because if they tried to correct the government they would look like they were challenging their superiors and get in trouble, but if they failed to meet the impossible quota, they would all get demoted and their careers would come to an end. They learned that the tire-making-machine-making company had recently invented a new model that really could make 150,000 tires a year. In the spirit of [Chen Sheng](http://en.wikipedia.org/wiki/Dazexiang_Uprising), they decided that since the penalty for missing their quota was something terrible and the penalty for sabotage was also something terrible, they might as well take their chances and destroy their own machinery in the hopes the government sent them the new improved machine as a replacement. To their delight, the government believed their story about an “accident” and allotted them a new tire-making machine. However, the tire-making-machine-making company had decided to cancel production of their new model. You see, the new model, although more powerful, weighed less than the old machine, and the government was measuring their production by kilogram of machine. So it was easier for them to just continue making the old less powerful machine. The tire factory was allocated another machine that could only make 100,000 tires a year and was back in the same quandary they’d started with. It’s easy to see how all of these problems could have been solved (or would never have come up) in a capitalist economy, with its use of prices set by supply and demand as an allocation mechanism. And it’s easy to see how thoroughly the Soviet economy was sabotaging itself by avoiding such prices. III. The “hero” of Red Plenty – although most of the vignettes didn’t involve him directly – was Leonid Kantorovich, a Soviet mathematician who thought he could solve the problem. He invented the technique of [linear programming](http://en.wikipedia.org/wiki/Linear_programming), a method of solving optimization problems perfectly suited to allocating resources throughout an economy. He immediately realized its potential and wrote a nice letter to Stalin politely suggesting his current method of doing economics was wrong and he could do better – this during a time when everyone else in Russia was desperately trying to avoid having Stalin notice them because he tended to kill anyone he noticed. Luckily the letter was intercepted by a kindly mid-level official, who kept it away from Stalin and warehoused Kantorovich in a university somewhere. During the “Khruschev thaw”, Kantorovich started getting some more politically adept followers, the higher-ups started taking note, and there was a real movement to get his ideas implemented. A few industries were run on Kantorovichian principles as a test case and seemed to do pretty well. There was an inevitable backlash. Opponents accused the linear programmers of being capitalists-in-disguise, which wasn’t helped by their use of something called “shadow prices”. But the combination of their own political adeptness and some high-level support from Khruschev – who alone of all the Soviet leaders seemed to really believe in his own cause and be a pretty okay guy – put them within arm’s reach of getting their plans implemented. But when elements of linear programming were adopted, they were adopted piecemeal and toothless. The book places the blame on Alexei Kosygen, who implemented [a bunch of economic reforms that failed](http://en.wikipedia.org/wiki/1965_Soviet_economic_reform), in a chapter that makes it clear exactly how constrained the Soviet leadership really was. You hear about Stalin, you imagine these guys having total power, but in reality they walked a narrow line, and all these “shadow prices” required more political capital than they were willing to mobilize, even when they thought Kantorovich might have a point. IV. In the end, I was left with two contradictory impressions from the book. First, amazement that the Soviet economy got as far as it did, given how incredibly screwed up it was. You hear about how many stupid things were going on at every level, and you think: This was the country that built Sputnik and Mir? This was the country that almost buried us beneath the tide of history? It is a credit to the Russian people that they were able to build so much as a screwdriver in such conditions, let alone a space station. But second, a sense of what could have been. What if Stalin hadn’t murdered most of the competent people? What if entire fields of science hadn’t been banned for silly reasons? What if Kantorovich had been able to make the Soviet leadership base its economic planning around linear programming? How might history have turned out differently? One of the book’s most frequently-hammered-in points was that there was was a brief moment, back during the 1950s, when everything seemed to be going right for Russia. Its year-on-year GDP growth (as estimated by impartial outside observers) was somewhere between 7 to 10%. Starvation was going down. Luxuries were going up. Kantorovich was fixing entire industries with his linear programming methods. Then Khruschev made a serious of crazy loose cannon decisions, he was ousted by Brezhnev, Kantorovich was pushed aside and ignored, the “Khruschev thaw” was reversed and tightened up again, and everything stagnated for the next twenty years. If Khruschev had stuck around, if Kantorovich had succeeded, might the common knowledge that Communism is terrible at producing material prosperity look a little different? The book very briefly mentioned a competing theory of resource allocation promoted by Victor Glushkov, a cyberneticist in Ukraine. He thought he could use computers – then a very new technology – to calculate optimal allocation for everyone. He failed to navigate the political seas as adroitly as Kantorovich’s faction, and the killing blow was a paper that pointed out that for him to do everything really correctly would take a hundred million years of computing time. That was in 1960. If computing power doubles every two years, we’ve undergone about 25 doubling times since then, suggesting that we ought to be able to perform Glushkov’s calculations in three years – or three days, if we give him a lab of three hundred sixty five computers to work with. There could have been this entire field of centralized economic planning. Maybe it would have continued to underperform prices. Or maybe after decades of trial and error across the entire Soviet Union, it could have caught up. We’ll never know. Glushkov and Kantorovich were marginalized and left to play around with toy problems until their deaths in the 80s, and as far as I know their ideas were never developed further in the context of a national planned economy. V. One of the ways people like insulting smart people, or rational people, or scientists, is by telling them they’re the type of people who are attracted to Communism. “Oh, you think you can control and understand everything, just like the Communists did.” And I had always thought this was a pretty awful insult. The people I know who most identify as rationalists, or scientifically/technically minded, are also most likely to be libertarian. So there, case dismissed, everybody go home. This book was the first time that I, as a person who considers himself rationally/technically minded, realized that I was super attracted to Communism. Here were people who had a clear view of the problems of human civilization – all the greed, all the waste, all the zero-sum games. Who had the entire population united around a vision of a better future, whose backers could direct the entire state to better serve the goal. All they needed was to solve the engineering challenges, to solve the equations, and there they were, at the golden future. And they were smart enough to be worthy of the problem – Glushkov invented cybernetics, Kantorovich won a Nobel Prize in Economics. And in the end, they never got the chance. There’s an interpretation of Communism as a refutation of social science, here were these people who probably knew some social science, but did it help them run a state, no it didn’t. But from the little I learned about Soviet history from this book, this seems diametrically wrong. The Soviets had practically no social science. They hated social science. You would think they would at least have some good Marxists, but apparently Stalin killed all of them just in case they might come up with versions of Marxism he didn’t like, and in terms of a vibrant scholarly field it never recovered. Economics was tainted with its association with capitalism from the very beginning, and when it happened at all it was done by non-professionals. Kantorovich was a mathematician by training; Glushkov a computer scientist. Soviet Communism isn’t what happens when you let nerds run a country, it’s what happens when you kill all the nerds who are experts in country-running, bring in nerds from unrelated fields to replace them, then make nice noises at those nerds in principle while completely ignoring them in practice. Also, you ban all Jews from positions of importance, because fuck you.

#### No short term crisis---socialism insulates the market from business confidence because allocation is centrally planned, BUT capitalism makes confidences crises structurally inevitable through natural oscillations

Block ‘20 [Fred; Fred Block is research professor of sociology at UC Davis. His works include Capitalism: The Future of An Illusion; April 24; “The Ruling Class Does Not Rule,” <https://jacobinmag.com/2020/04/ruling-class-capitalist-state-reform-theory>; JM]

Individual capitalists decide on their rate of investment in a particular country on the basis of a variety of specific variables such as the price of labor and the size of the market for a specific product. But there is also an intangible variable — the capitalist’s evaluation of the general political/economic climate. Is the society stable; is the working class under control; are taxes likely to rise; do government agencies interfere with business freedom; will the economy grow? These kinds of considerations are critical to the investment decisions of each firm.

The sum of all of these evaluations across a national economy can be termed the level of business confidence. As the level of business confidence declines, so will the rate of investment. Business confidence also has an international dimension when nations are integrated into a capitalist world economy. Multinational corporations, international bankers, and currency speculators also make judgments about a particular nation’s political/economic climate that determine their willingness to invest in assets in that nation. This, in turn, will affect the internal level of business confidence and the rate of productive investment.

Business confidence is, however, very different from “ruling-class consciousness.” Business confidence is based on an evaluation of the market that considers political events only as they might impinge on the market. This means that it is rooted in the narrow self-interest of the individual capitalist who is worried about profit. Business confidence, especially because of its critical international component, does not make subtle evaluations as to whether a regime is serving the long-term interests of capital.

When there is political turmoil and popular mobilization, business confidence will fall, and it will rise when there is a restoration of order, no matter how brutal. It was business confidence that responded so favorably to Louis Bonaparte’s coup d’etat, because he promised to restore the conditions for business as usual, despite negative implications for the political rights of the bourgeoisie. The crudeness of business confidence makes capitalism peculiarly vulnerable to authoritarian regimes that are capable of acting against the general interests of capital.

The dynamic of business confidence as a constraint on the managers of the state apparatus can be grasped by tracing out a scenario of what happens when left-of-center governments come to power through parliamentary means and attempt to push through major reforms. The scenario distills a number of twentieth-century experiences including that of Chile under Allende. From the moment that the Left wins the election, business confidence declines.

The most important manifestation of this decline is an increase in speculation against the nation’s currency. Reformist governments are always under suspicion that they will pursue inflationary policies; a high rate of inflation means that the international value of the nation’s currency will fall. Speculators begin to discount the currency for the expected inflation as soon as possible.

This association between reformist governments and inflation is not arbitrary. Reformist policies — higher levels of employment, redistribution of income toward the poor, improved social services —directly or indirectly lead to a shift of income from profits toward the working class. Businesses attempt to resist such a shift by raising prices so that profit levels will not be reduced. In short, price inflation in this context is a market response to policies that tend to benefit the working class.

The reformist government, faced with the initial speculative assault on its currency, has two choices. It can reassure the international and domestic business community, making clear its intention to pursue orthodox economic policies. Or it can forge ahead with its reform program. If it pursues the latter course, an increased rate of inflation and an eventual international monetary crisis is likely.

The international crisis results from the combination of continued speculative pressure against the currency and several new factors. Domestic inflation is likely to affect the nation’s balance of trade adversely, leading to a real deterioration in the nation’s balance-of-payments account. In addition, inflation and loss of confidence in the currency leads to the flight of foreign and domestic capital and increased foreign reluctance to lend money to the afflicted nation.

The initial speculative pressure against the currency could be tolerated; the eruption of an acute international monetary crisis requires some kind of dramatic response. The government may renounce its reformism or cede power to a more “responsible” administration. But if the government is committed to defending its programs, it will have to act to insulate its economy from the pressures of the international market by imposing some combination of price controls, import controls, and exchange controls.

Escalation in the government’s attempt to control the market sets off a new chain of events. These new controls involve threats to individual capitalists. Price controls mean that firms lose the ability to manipulate one of the major determinants of profit levels. Import controls mean that a firm may no longer be able to import goods critical to its business. Exchange controls mean that firms and individuals no longer are able to move their assets freely to secure international havens. The fact that assets are locked into a rapidly inflating currency poses the possibility that large fortunes will be lost.

These are the ingredients for a sharp decline in domestic business confidence. Why should business owners continue to invest if they must operate in an environment in which the government violates the fundamental rules of a market economy?

A sharp decline in business confidence leads to a parallel economic downturn. High rates of unemployment coexist with annoying shortages of critical commodities. The popularity of the regime falls precipitously. The only alternative to capitulation — eliminating controls and initial reforms — is sharp forward movement to socialize the economy. The government could put people back to work and relieve the shortages by taking over private firms.

### 2AC---Innovation---AT: Tech Solves

#### Tech can’t solve---empirics, rebound, outsourcing, and politics

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The first heroic assumption underpinning techno-optimist solutions is the ongoing reliance in many of the most influential large scale decarbonization strategies on CCS (carbon capture and storage). While CCS may play a valuable, albeit modest, long term role, the current state of knowledge suggests that we are still a very long way from affordable and scalable CCS deployment. Even the Global CCS Institute (2013: 5) has recently reported that, “while CCS projects are progressing, the pace is well below the level required for CCS to make substantial contribution to climate change mitigation”. The growing “emissions gap” is also providing increasing impetus for speculation about the “necessity” of geoengineering “solutions” with all their attendant concerns about ethical implications and unintended consequences (see Hamilton 2013).

The second debatable assumption is that technological innovation will necessarily and rapidly translate into global reductions in energy consumption. Important questions remain about the speed with which 100% renewable energy can realistically be achieved (see e.g. Smil 2010, 2014); the extent of fossil fuel energy consumption required to drive the initial massive expansion in renewable energy infrastructure; and the full life cycle energy return on investment (EROI) outcomes of solar and wind energy—particularly if these calculations factor in the full costs of energy storage (see e.g. Palmer 2013; Prieto and Hall 2013). Noting that emissions reductions of 4% p.a. in an economy growing at 2% p.a. are likely to require carbon intensity improvements of around 6% p.a., Anderson (2013) notes that he has yet to find any credible mainstream economist prepared to argue that prolonged emissions reductions of 3% or 4% or more are compatible with economic growth.

Indeed, as Lord Stern (2006: 231) himself has noted: There is likely to be a maximum practical rate at which global emissions can be reduced. At the national level, there are examples of sustained emissions cuts of up to 1% per year associated with structural change in energy systems... whilst maintaining strong economic growth. However, cuts in emissions greater than this have historically been associated only with economic recession or upheaval, for example, the emissions reduction of 5.2% per year for a decade associated with the economic transition and strong reduction in output in the former Soviet Union. These magnitudes of cuts suggest it is likely to be very challenging to reduce emissions by more than a few percent per year while maintaining strong economic growth.

The third reason for caution in assuming overly optimistic relationships between technological innovation, carbon intensity and emissions reductions is the impact of the “rebound effect” (see Jevons 1865; Herring and Sorrell 2009; Holm and Englund 2009; Jackson 2009). This phenomenon refers to the tendency for innovation and efficiency gains to be rapidly overwhelmed as cheaper unit costs combined with the formidable reach and power of the global advertising industry enable and encourage individuals to consume more of the same or alternative services and products. The harsh reality remains that global emissions continue to grow (IPCC 2013)—along with the global trends in the consumption of energy and resources—with apparent improvements in developed economy energy efficiency often masking the reality of energy intensive production being offshored to developing economies.

The likelihood of full and fast deployment of new technologies is the fourth problematic assumption that needs to be addressed given the formidable political and social obstacles standing in the way of rapid implementation. As noted in the recent Post Carbon Pathways review of learning from the implementation of large-scale decarbonization strategies (see Wiseman et al. 2013), experienced climate scientists and policymakers consistently come to the conclusion that the key obstacles standing in the way of rapid decarbonization are political and social rather than technological. Key roadblocks include the following.

### 2NC---AT: McAfee

#### McAfee uses faulty data that ignores globalization.

Hickel 20, Economic anthropologist at Goldsmiths University of London (Jason, October 14th, “A response to McAfee: No, the “Environmental Kuznets Curve” won’t save us,” *MROnline*, https://mronline.org/2020/10/14/a-response-to-mcafee-no-the-environmental-kuznets-curve-wont-save-us/)

There’s only one problem: McAfee’s argument is based on a fundamental accounting error. McAfee uses data on domestic material consumption, which tallies up the resources that a nation extracts and consumes each year. But this metric ignores a crucial piece of the puzzle. While it includes the imported goods a country consumes, it does not include the resources involved in extracting, producing, and transporting those goods. Because the United States and other rich countries have offshored so much of their production to poorer countries over the past 40 years, that side of resource use has been conveniently shifted off their books.

In other words, what looks like “green growth” is really just an artifact of globalization. Given how much the U.S. economy relies on offshored production, McAfee’s data cannot be legitimately compared to U.S. GDP, and cannot be used to make claims about dematerialization.

Ecological economists have been aware of this problem for a long time. To correct for it, they use a more holistic metric called “raw material consumption,” which fully accounts for trade. When we look at this data, which is readily available from the United Nations, the story changes completely. We see that total resource use in the United States hasn’t been falling at all; in fact, it has been rising more or less exactly in line with GDP. The same is true of all other major industrial economies, including the European Union, and the OECD as a group. There has been zero dematerialization. No green growth. It was all an illusion of accounting.

## T---Anti-Competitive

### 2AC---T---Anti-Competitive

#### 2. Function---we ban “exploiting market position to the detriment of consumers--- 1AC proves that all prviate corporations “exploit their market position to the detriment of consumers”

#### ---here’s their evidence saying that’s topical --- we read RED

OECD 3 (Organization for Economic Cooperation and Development, April 24, 2003, “Anticompetitive Practices,” https://stats.oecd.org/glossary/detail.asp?ID=3145)

Definition:

Anticompetitive practices refer to a wide range of business practices in which a firm or group of firms may engage in order to restrict inter-firm competition to maintain or increase their relative market position and profits without necessarily providing goods and services at a lower cost or of higher quality.

Context:

The essence of competition entails attempts by firm(s) to gain advantage over rivals. However, the boundary of acceptable business practices may be crossed if firms contrive to artificially limit competition by not building so much on their advantages but on exploiting their market position to the disadvantage or detriment of competitors, customers and suppliers such that higher prices, reduced output, less consumer choice, loss of economic efficiency and misallocation of resources (or combinations thereof) are likely to result.

Which types of business practices are likely to be construed as being anticompetitive and, if that, as violating competition law, will vary by jurisdiction and on a case by case basis. Certain practices may be viewed as per se illegal while others may be subject to rule of reason. Resale price maintenance, for example, is viewed in most jurisdictions as being per se illegal whereas exclusive dealing may be subject to rule of reason. The standards for determining whether or not a business practice is illegal may also differ. In the United States, price fixing agreements are per se illegal whereas in Canada the agreement must cover a substantial part of the market. With these caveats in mind, competition laws in a large number of countries examine and generally seek to prevent a wide range of business practices which restrict competition. These practices are broadly classified into two groups: horizontal and vertical restraints on competition. The first group includes specific practices such as cartels, collusion, conspiracy, mergers, predatory pricing, price discrimination and price fixing agreements. The second group includes practices such as exclusive dealing, geographic market restrictions, refusal to deal/sell, resale price maintenance and tied selling.

Generally speaking, horizontal restraints on competition primarily entail other competitors in the market whereas vertical restraints entail supplier-distributor relationships. However, it should be noted that the distinction between horizontal and vertical restraints on competition is not always clear cut and practices of one type may impact on the other. For example, firms may adopt strategic behaviour to foreclose competition. They may attempt to do so by pre-empting facilities through acquisition of important sources of raw material supply or distribution channels, enter into long term contracts to purchase available inputs or capacity and engage in exclusive dealing and other practices. These practices may raise barriers to entry and entrench the market position of existing firms and/or facilitate anticompetitive arrangements.

#### ‘Anticompetitive’ business practices are anything harmful for price levels, fairness, or equality

Gerber ’10 [David; May 6; Distinguished Professor of Law at Chicago-Kent College of Law, Illinois Institute of Technology; Global Competition: Law, Markets, and Globalization, “US Antitrust: Model and Lens,” Ch. 5, p. 125]

The articulated goals of the system have changed over time, and until recently they accumulated within a broad and relatively unstructured amalgam.8 At various times, for example, this mixture has included concerns for consumer price levels, fairness (particularly for small and medium-sized firms), equality of opportunity for competitors and potential competitors, and economic liberty. The label 'anti-competitive' has been used rather loosely to apply to conduct that is seen as harmful to some or all of these goals. Despite or perhaps because of this mix of goals, antitrust has often been politically important. Its political resonance is reflected in broad statements throughout the classical period portraying antitrust in the language of political rhetoric and in emotive images. For example, according to Justice Marshall, writing in 1972,

[A]ntitrust laws in general, and the Sherman Act in particular, are the Magna Carta of free enterprise. They are as important to the preservation of economic freedom and our free-enterprise system as the Bill of Rights is to the protection of our fundamental personal freedoms.

#### Nationalization is an antitrust policy

**Hewitt 21** [Liane Hewitt, historian of political economy and international order at Princeton, Economic History Workshop is a monthly seminar series for Princeton students and faculty interested in the study of economic history, co-sponsored by the Department of History at Princeton and the Julis-Rabinowitz Center for Public Policy & Finance, the workshop provides a forum for scholars to present their findings and receive feedback on their research in a wide array of subfields, such as financial, business, labor, legal, intellectual, technological, and social history, Nationalization as Anti-Trust Policy: The Post-War Anti-Fascist Moment in France, Britain and West-Germany, 1944-51,” Feb 4, 2021, https://jrc.princeton.edu/events/hewitt-spring-2021]

This dissertation asks how international cartels became rejected after the Second World as the private scaffolding for organizing European capitalism and international order. After 1918, a broad consensus of actors (governments, politicians, legal and economic experts, and sectors of socialists, labor and consumer groups) boosted cartels as a near-panacea for stabilizing chaotic markets, securing the fragile peace, and building a common market that could hold its own against American Fordist mass-production and distribution. This chapter argues that the sweeping nationalization reforms enacted at the end of WW2 by Britain and France, under the Attlee Labour government and the Resistance-controlled Constituent Assembly respectively, should be seen as pivotal episodes in Western Europe’s anti-cartel turn. This interpretation brings together two traditionally separate historiographies: the first on the post-war social-democratic moment and the construction of national welfare states, and the second more technical literature on post-1945 de-cartelization. The chapter suggests that governments and activists justified nationalization as an anti-trust policy to defeat the anti-democratic, perhaps even fascistic power of private big-business over the state and national economic life. The organized Left had proposed comprehensive nationalization reforms since the end of WW1. But it was not until the anti-fascist and Liberation moment swept Britain and France in the wake of the victory of 1944-45 that governments took control of the commanding heights of their economies: notably credit, energy (gas, coal), transport, and iron and steel (in Britain, only). The chapter will conclude by briefly considering alternative national solutions to the cartel problem after 1945, which did not involve state nationalizations in Scandinavia and West Germany. American occupation and a weaker post-war anti-fascist moment in these countries may hold the key to explaining why they did not take the nationalization-as-antitrust policy route.

#### 2. Arbitrariness---‘anticompetitive’ is context dependent. Lists are unpredictable.

Smith ’10 [D Brooks; November 29; Federal Circuit Judge on the Third Circuit; Westlaw, “W. Penn Allegheny Health Sys., Inc. v. UPMC,” 627 F.3d 85]

Broadly speaking, a firm engages in anticompetitive conduct when it attempts “to exclude rivals on some basis other than efficiency,” Aspen Skiing Co. v. Aspen Highlands Skiing Corp., 472 U.S. 585, 605, 105 S.Ct. 2847, 86 L.Ed.2d 467 (1985) (internal quotation marks omitted), or when it competes “on some basis other than the merits,” LePage's, 324 F.3d at 147. “Conduct that impairs the opportunities of rivals and either does not further competition on the merits or does so in an unnecessarily restrictive way may be deemed anticompetitive.” Broadcom, 501 F.3d at 308. The line between anticompetitive conduct and vigorous competition is sometimes blurry, but distinguishing between the two is critical, because the Sherman Act “directs itself not against conduct which is competitive, even severely so, but against conduct which unfairly tends to destroy competition itself.” McQuillan, 506 U.S. at 458, 113 S.Ct. 884; United \*109 States v. Aluminum Co. of Am., 148 F.2d 416, 429–30 (2d Cir.1945).

“ ‘Anticompetitive conduct’ can come in too many different forms, and is too dependent upon context, for any court or commentator ever to have enumerated all the varieties.” LePage's, 324 F.3d at 152 (quoting Caribbean Broad. Sys., Ltd. v. Cable & Wireless PLC, 148 F.3d 1080, 1087 (D.C.Cir.1998)). For present purposes, it is sufficient to note that anticompetitive conduct can include a conspiracy to exclude a rival, Areeda & Hovenkamp, supra, ¶ 806f3, at 428; see LePage's, 324 F.3d at 157, hiring a rival's employees not to use them but to deny them to the rival, Universal Analytics, Inc. v. MacNeal–Schwendler Corp., 914 F.2d 1256, 1258 (9th Cir.1990) (per curiam); Areeda & Hovenkamp, supra, ¶ 702, at 205, a hospital's coercing providers not to refer patients to a rival, Potters Med. Ctr. v. City Hosp. Ass'n, 800 F.2d 568, 576–77, 580 (6th Cir.1986); see M & M Med. Supplies & Serv., Inc. v. Pleasant Valley Hosp., 981 F.2d 160, 166–67 (4th Cir.1992) (en banc), and making false statements about a rival to potential investors and customers, see LePage's, 324 F.3d at 153 (citing Int'l Travel Arrangers, Inc. v. Western Airlines, Inc., 623 F.2d 1255 (8th Cir.1980)); Caribbean, 148 F.3d at 1087; see generally Maurice E. Stucke, Symposium, When a Monopolist Deceives, 76 Antitrust L.J. 823 (2010).14

## CP---Adv

### 2AC---AT: Climate

#### It makes warming worse, causes Africa water wars, and kills the ozone

Renee **Cho 12** – Renee Cho is a staff blogger for the Earth Institute and a freelance environmental writer who has written for www.insideclimatenews.com, E Magazine and On Earth. Previously, Renee was Communications Coordinator for Riverkeeper, the Hudson River environmental organization. She received the Executive Education Certificate in Conservation and Sustainability from the Earth Institute Center for Environmental Sustainability (Renee Cho, 5-1-2012, "The Double-Edged Sword of Geoengineering," No Publication, accessed 8-20-2016, http://blogs.ei.columbia.edu/2012/05/01/the-double-edged-sword-of-geoengineering/)

Shooting sulfur particles into the stratosphere to reflect the sun? Dumping iron into the ocean to boost the absorption of carbon dioxide? Could these far-fetched and dangerous-sounding schemes help avert potentially catastrophic effects of climate change, or would they exacerbate conditions on our ever warming planet? These strategies, which involve the deliberate and large-scale intervention in our climate system to moderate global warming, are known as geoengineering. Fantastical as they seem, billionaires Bill Gates, Sir Richard Branson and others, are investing millions of dollars into the geoengineering research of a few leading climate scientists like Ken Caldeira at Stanford. At first, Caldeira thought geoengineering sounded crazy too, but his research showed that it would basically work. If global warming exceeds 2˚ C, it would be “a prescription for disaster,” said NASA scientist James Hansen. To prevent this from happening, we need to cap atmospheric carbon dioxide levels at 350 parts per million; but in March 2012, we reached almost 394.5 ppm and global greenhouse gas emissions continue to rise. Even if we were able to immediately cut greenhouse gas emissions to zero, however, global warming would continue for the foreseeable future because carbon dioxide remains in the atmosphere for several hundred years. Moreover, the international community has failed to reach an agreement that tackles the fundamental problem of controlling carbon emissions and prospects for doing so don’t look good. As a result, geoengineering is beginning to sound less like science fiction to some, and more like a possible Plan B. Geoengineering strategies fall into two main categories: Solar radiation management, which seeks to reduce the amount of sunlight that reaches earth by deflecting it or increasing Earth’s reflectivity (albedo). Carbon dioxide removal, which tries to take carbon dioxide out of the atmosphere. Solar radiation management includes efforts like white roofs that deflect sunlight, brightening clouds by shooting seawater into them to increase their albedo (salt provides the nuclei that seed the clouds), and controversial strategies based on the cooling effect that can follow major volcanic eruptions. In 1991, Mt. Pinatubo in the Philippines erupted, sending 22 million tons of sulfur dioxide into the stratosphere. The sulfur particles scattered around the globe, deflected sunlight, and cooled Earth by 0.4 to 0.5˚ C. Solar radiation management would recreate this effect by using balloons, aircraft or cannons to shoot tiny reflective particles like sulfates into the stratosphere to temporarily block sunlight. The 1992 Panel on Policy Implications of Greenhouse Warming calculated that this strategy would cost just pennies per ton of carbon dioxide mitigated. It would also be fast-acting, capable of quickly reducing the impacts of heat stress on crops, resulting in increased productivity since carbon dioxide levels, which boost growth, would remain high. Other solar radiation management ideas include the use of engineered nanoparticles, which could be constructed to ascend high into the atmosphere and keep their shiny side to the sun, and sunshades in space made of mirrors. Solar radiation management would do nothing to address the root cause of global warming—carbon dioxide emissions—or ocean acidification caused by the sea’s absorption of excess carbon dioxide. And while stratospheric aerosols could theoretically produce cooling on a local or global level, they might also create regional problems by affecting rain and snowfall patterns and causing drought. According to Caldeira, a year or two after Mt. Pinatubo, when aerosols dropped from the stratosphere, both the Amazon River and the Ganges had very low flows and droughts occurred. A 2010 study by ETC (Erosion, Technology and Concentration), an international group that opposes geoengineering, states that solar radiation management climate models show a risk of increased drought over Africa, Asia and the Amazon jungle. Putting sulfate particles into the stratosphere could also damage the ozone layer, lead to acid rain and increased ocean acidification, and interfere with solar cells, astronomy and satellites. In addition, solar radiation management techniques carry the risk of a rapid rise in temperature if the program were started then stopped, which would be more dangerous to life on Earth than a gradual temperature rise.

#### CCS can’t solve warming

Kole 16 (Allison Kole, Senior legal fellow with the Climate Investigations Center, “It’s Too Late for Expensive Capture Technology to Help Climate,” The New York Times, July 7, 2016, http://www.nytimes.com/roomfordebate/2016/07/07/clean-coal-or-a-dirty-shame/its-too-late-for-expensive-carbon-capture-technology-to-help-the-climate)

Despite decades of effort, carbon capture and storage for coal­fired power plants has yet to come close to offsetting the damage caused by coal and has created new hazards of its own. The term “clean coal” has always seemed like an oxymoron, and so it is no wonder that carbon capture, a technology touted by industry, has done little to clean up coal. We cannot afford further investment in a pipe dream that distracts us from developing real solutions and technologies for climate change. Yet policymakers, prodded by the coal industry, continue to invest money and precious time to try to develop carbon capture for coal­fired plants. The Department of Energy began developing carbon capture in 1997, and since 2008, Congress has allocated $7 billion for carbon capture programs. Still, no commercial­scale carbon capture power plant has gone online in the United States, and the long list of abandoned projects in the United States and abroad grows. Carbon capture is an expensive technology requiring expansive new infrastructure. This includes potentially thousands of miles of pipeline for transporting captured carbon dioxide and maintenance and monitoring of storage sites to prevent leakage. Assuming such obstacles can be overcome, it is likely too late for carbon capture to be scaled up as needed to be an effective tool for combating climate change. To achieve meaningful carbon dioxide reductions, approximately 100 carbon capture projects must be online by 2020 and 3,000 by 2050. No carbon capture project has been able to capture the quantities of carbon dioxide promised. Also, carbon capture investment is not a smart strategy for reducing carbon emissions. To recoup costs, some carbon capture power plant operators plan to sell carbon dioxide to oil companies to help them extract more oil. Also, because carbon capture reduces a coal plant’s efficiency, using carbon capture actually requires the use of more coal to produce the same amount of energy than a plant without carbon capture. Putting costs, infrastructure issues and efficiency problems aside, the use of carbon capture to reduce carbon emissions ignores the harmful effects of coal on the environment and communities. Regardless of any reduction in carbon achieved, plants with carbon capture still release harmful air pollutants and produce polluting coal ash ponds. With or without carbon capture, the burning, storage and extraction of coal disproportionately affects poor communities and communities of color. We cannot afford further investment in the carbon capture pipe dream that distracts the nation from developing real solutions and adaptive technologies for climate change. Our energy and environmental future should not be dictated by the narrow vision of the fading coal industry.

## CP---Anarchy

### 2AC---CP---Anarchy

#### The state is key to any realistic climate solution---otherwise unchecked corporations will usurp power

Parenti 15 [\*former visiting fellow at CUNY's Center for Place, Culture and Politics, as well as a Soros Senior Justice Fellow, teaches in the Liberal Studies program at New York University, interview with \*\*Emanuele, writer, activist and radio journalist who lives and works in the Rust Belt (Christian and Vincent, “Climate Change, Militarism, Neoliberalism and the State,” *Online University of the Left*, [http://ouleft.sp-mesolite.tilted.net/?p=1980)](http://ouleft.sp-mesolite.tilted.net/?p=1980)//BB)

You mention mutual aid and how it was overhyped by the left in the aftermath of Katrina. I’m thinking of the same thing in the aftermath of Hurricane Sandy. You’ve been critical of the left in the US for not approaching and using the state apparatus when dealing with climate change and other ecological issues. Can you talk about your critique of the US left and why you think the state can, and should, be used in a positive manner? Just to be clear, I think it is absolutely heroic and noble what activists have done. My critique is not of peoples’ actions, or of people; it’s of a lack of sophistication, and I hold myself partly accountable, as part of the US left, for our deficiencies. With Hurricane Sandy, the Occupy folks did some amazing stuff. Yet, at a certain level, their actions became charity. People were talking about how many meals they distributed. That’s charity. That is, in many ways, a neoliberal solution. That’s exactly what the capitalist system in the US would like: US citizens not demanding their government redistribute wealth from the 1% to the 99%. The capitalists love to see people turn to each other for money and aid. Unwittingly, that’s what the anarcho-liberal left fell into. This is partly due a very American style of anti-state rhetoric that transcends left and right. The state is not just prisons or the military. It’s also Head Start, quality public education, the library, clean water, the EPA, the City University of New York system – a superb, affordable set of schools that turns out top-notch, working-class students with the lowest debt burdens in the country. There’s a reason the right is attacking these institutions. Why does the right hate the EPA and public education? Because they don’t want to pay to educate the working class, and they don’t want the working class educated. They don’t want to pay to clean up industry, and that’s what the EPA forces them to do. When the left embraces anarcho-liberal notions of self-help and fantasies of being outside of both government and the market, it cuts itself off from important democratic resources. The state should be seen as an arena of class struggle. When the left turns its back on the social democratic features of government, stops making demands of the state, and fails to reshape government by using the government for progressive ends, it risks playing into the hands of the right. The central message of the American right is that government is bad and must be limited. This message is used to justify austerity. However, in most cases, neoliberal austerity does not actually involve a reduction of government. Typically, restructuring in the name of austerity is really just a transformation of government, not a reduction of it. Over the last 35 years, the state has been profoundly transformed, but it has not been reduced. The size of the government in the economy has not gone down. The state has become less redistributive, more punitive. Instead of a robust program of government-subsidized and public housing, we have the prison system. Instead of well-funded public hospitals, we have profiteering private hospitals funded by enormous amounts of public money. Instead of large numbers of well-paid public workers, we have large budgets for private firms that now subcontract tasks formerly conducted by the government. We need to defend the progressive work of government, which, for me, means immediately defending public education. To be clear, I do not mean merely vote or ask nicely, I mean movements should attack government and government officials, target them with protests, make their lives impossible until they comply. This was done very well with the FCC. And my hat goes off to the activists who saved the internet for us. The left should be thinking about the ways in which it can leverage government. The utility of government was very apparent in Vermont during the aftermath of Hurricane Irene. The rains from that storm destroyed or damaged over a hundred bridges, many miles of road and rail, and swept away houses. Thirteen towns were totally stranded. There was a lot of incredible mutual aid; people just started clearing debris and helping each other out. But within all this, town government was a crucial connective tissue. Due to the tradition of New England town meeting, people are quite involved with their local government. Anarchists should love town meetings. It is no coincidence that Murray Bookchin spent much of his life in Vermont. Town meetings are a form of participatory budgeting without the lefty rigmarole. More importantly, the state government managed to get a huge amount of support from the federal government. The state in turn pushed this down to the town level. Without that federal aid, Vermont would still be in ruins. Vermont is not a big enough political entity to shake down General Electric, a huge employer in Vermont. The Vermont government can’t pressure GE to pay for the rebuilding of local infrastructure, but the federal government can. Vermont would still be a disaster if it didn’t get a transfer of funds and materials from the federal government. Similarly in New York City, the public sector does not get enough praise for the many things it did well after super storm Sandy. Huge parts of the subway system were flooded, yet it was all up and running within the month. As an aside, one of the dirty little secrets about the Vermont economy is that it’s heavily tied-up with the military industrial complex. People think Vermont is all about farming and boutique food processing. Vermont has a pretty diverse economy, but agriculture plays a much smaller role than you might think, about 2 percent of employment. Meanwhile, the state’s industrial sector, along with the government, is one of the top employers, at about 13 percent of all employment. Most of this work is in what’s called precision manufacturing, making stuff like: high performance nozzles, switches, calibrators, and stuff like the lenses used in satellites, or handcrafting the blades that go in GE jet engines. But I digress … As we enter the crisis of climate change, it’s important to be aware of the actually existing legal and institutional mechanisms with which we can contain and control capital. I often joke with my anarchist and libertarian friends and ask if their mutual-aid collectives can run Chicago’s sanitation system or operate satellites. Of course, on one level, I’m joking, but on another level, I’m being quite serious. I don’t think activists on the left properly understand the complexity of modern society. A simple example would be how much sewage is produced in a single day in a country with 330 million people. How do people expect to manage these day-to-day issues? In your opinion, is there a lack of sophistication on the left in terms of what, exactly, the state does and how it functions in our day-to-day lives? It’s sobering to reflect on just how complex the physical systems of modern society are. And though it is very unpopular to say among most American activists, it is important to think about the hierarchies and bureaucracies that are necessarily part of technologically complex systems. A friend of mine is a water engineer in Detroit, and he was talking to me about exactly what you’re mentioning. The sewer system in Detroit is mind-bogglingly enormous and also very dilapidated and very expensive. To not have infrastructure publicly maintained, even though the capitalist class might not admit this, would ultimately undermine capital accumulation. You asked if there is a lack of sophistication. Look, I’m trying to make helpful criticisms to my comrades on the left, particularly to activists who work so hard and valiantly. I’ve criticized divestment as a strategy, yet I support it. I criticized the false claims that divesting fossil fuels stocks would hurt fossil fuel companies. The fossil fuel divestment movement started out making that claim. To its credit, the movement has stopped making such claims. Now, they say that it will remove the industries "social license," which is a problematic concept that comes from the odious world of "corporate social responsibility." However, now, students are becoming politicized, and that’s always great news. For several years, some of us have been trying to get climate activists, the climate left, to take the EPA and the Clean Air Act seriously. The EPA has the power to actually de-carbonize the economy. The divestment logic is: Schools will divest, then fossil fuel companies will be held in greater contempt than they are now? Honestly, they’re already hated by everybody. That does what? That creates the political pressure to stop polluting? We already have those regulations: the Clean Air Act. There was a Supreme Court Case, Massachusetts v. EPA, that was ruled on in 2007. It said the EPA must regulate greenhouse gas emissions. Lots of professional activists in the climate movement, at least up until very recently, have been totally unaware of this. Consequently, they are not making demands of the EPA. They are not making demands of their various local, state and federal environmental agencies. These entities should be enforcing the laws. They have the power. It’s not because the people in the climate movement are bad people or unintelligent. They’re dedicated and extremely smart. It’s because there’s an anti-state ethos

within the environmental movement and a romanticization of the local. On a side note, I don’t think all of this stuff about local economies is helpful. Sometimes I think this sort of thinking doesn’t recognize how the global political economy works. The comrades at Jacobin magazine have called this anarcho-liberalism. I think that is a great way to describe the dominant ideology of US left, which is both anarchist and liberal in its sensibilities. This ideology is fundamentally about ignoring government, and instead, being obsessed with scale, size, and, by extension, authenticity. Big things are bad. Small things are good. Planning is bad. Spontaneity is good. It is as insidious as it is ridiculous. But it is the dominant worldview among the US left. Do you really think that this is the best way to approach the industry, through mobilizing state resources? Look, the fossil fuel industry is the most powerful force the world has ever seen. Be honest, what institution could possibly stand up to them? The state. That doesn’t mean it will. Right now, government is captured by these corporate entities. But, it has, at least in theory, an obligation to the people. And it also has the laws that we need to wipe out the fossil fuel industrial complex. This sounds fantastical and nuts, but I don’t think it is. I’ve been harping on this in articles and a little bit at the end of Tropic of Chaos. According to the Center for Biological Diversity, Nixon-era laws can be used to sue developers, polluters, etc. You might not be able to stop them, but you can slow them down. The Clean Air Act basically says that if science can show that smoke-stack pollution is harmful to human health, it has to be regulated. If there was a movement really pushing the government, and making the argument that the only safe level of CO2 emissions is essentially zero … We have the laws in place. We have the enabling legislation to shut down the fossil fuel industry. We should use the government to levy astronomical fines on the fossil fuel companies for pollution. And we should impose them at such a level that it would undermine their ability to remain competitive and profitable.

## DA---PTX

### 2AC---DA---Infrastructure

#### Bill won’t pass and Biden fails---second delay is a huge setback.

Foran et al. ‘10/28 [Clare; 10/28/21; congressional reporter for CNN Politics; et al.; "House Democrats again delay infrastructure vote amid party divisions," https://www.cnn.com/2021/10/28/politics/biden-agenda-deal-democrats/index.html]

House Democratic leaders on Thursday were once again forced to push back the timeline for a vote on a $1 trillion infrastructure bill, a sign of ongoing divisions within the party and a major blow to President Joe Biden and party leaders eager to show they can deliver on their agenda.

The decision to delay the vote came just hours after Biden appealed directly to House Democrats in a closed-door meeting on Capitol Hill, pitching them on a framework for a separate, larger climate and economic package.

The problem for party leaders is that progressives made clear they would not vote for the infrastructure bill unless the larger bill moves in tandem and said a framework was not enough to win their votes. That bill has not yet been finalized or publicly signed off on by all Senate Democrats.

Delaying the infrastructure vote is a significant setback for Democrats with Biden making clear privately for more than a week he wanted an agreement and passage of the bipartisan measure before he arrives at a UN Climate Conference on November 1. Biden departed for his foreign trip later in the day on Thursday.

Speaker Nancy Pelosi had told House Democrats earlier Thursday not to "embarrass" Biden by voting down the infrastructure bill during Biden's trip overseas.

This is the second time in two months that House leadership has had to delay the infrastructure vote after a similar scenario played out at the end of September. For now, it's unclear how long the vote on the bipartisan infrastructure bill will be delayed.

## DA---FTC

### 2AC---DA---FTC

#### No budget.

Goolsbee ’20 [Austan; September 30; Professor of economics at the University of Chicago’s Booth School of Business, has been a Department of Justice antitrust consultant, and was an adviser to President Barack Obama; *New York Times,* “Big Companies Are Starting to Swallow the World,” <https://www.nytimes.com/2020/09/30/business/big-companies-are-starting-to-swallow-the-world.html>; KS]

First, the enforcement budget for antitrust actions was already stretched way too thin even before the current crisis began. That budget has been falling for years and is lower now than it was two decades ago. The entire antitrust division of the Justice Department and the F.T.C. are being forced to operate on less than a single company like Facebook brings in over a few days. In the last 10 years, the number of merger filings (which notify the authorities of an intended merger) has almost doubled, but the number of enforcement actions taken by the government has actually fallen.

#### Merger activity ramping up.

Graham 9-16 [Jed; Author at Investor’s Business Daily; *Investor’s Business Daily,* “FTC, Biden Antitrust Enforcement Push Takes On Amazon, Google — And The Supreme Court,” <https://www.investors.com/news/antitrust-enforcement-push-by-ftc-biden-takes-on-amazon-google-supreme-court/>; KS]

Wall Street's early reaction to the Biden administration's attempt to stiff-arm M&A activity has been to step on the gas. The FTC said in August that it's struggling to stay abreast of a "tidal wave" of mergers. The 2,436 deal filings through August have already blown past the elevated annual totals from 2017-2019.

Despite a skeptical, if not hostile, attitude among antitrust enforcers, the vast majority of these deals are likely to go through.

While Congress may increase funding for merger enforcement, the FTC and DOJ are already devoting significant resources to the Facebook and Google antitrust cases. "They can only fight so many battles," Kovacic said.

Khan Uses Bully Pulpit, Bulls Like Big Tech

That's not to say the Biden team won't create major headaches for merging parties. More mergers will face reviews and the probes will last several months longer. And where concerns arise, the agencies will be less likely to negotiate a fix.

To make deals approvable, regulators have long consented to divestitures. Sometimes regulators settle for behavioral remedies. To seal the T-Mobile-Sprint merger, the Justice Department relied on Dish Network's commitment to build out a national wireless network. But Khan says the track record of both types of fixes isn't great.

"The antitrust agencies should more frequently consider opposing problematic deals outright," Khan wrote Aug. 6. She was responding to a letter from Sen. Elizabeth Warren, who had raised concerns about defense mergers. The news added to doubts that the FTC will clear the pending Lockheed Martin (LMT) acquisition of rocket engine manufacturer Aerojet Rocketdyne (AJRD).

When regulators do decide to negotiate, "expansive divestiture demands could result in a remedy that frustrates the purpose of the deal," warned antitrust attorneys at tech-focused law firm Wilson Sosini.

Khan is clearly using her bully pulpit to the utmost, trying to dissuade merger talks from reaching fruition.

But right now it's all talk. She has turned a few heads, but the S&P 500 and Big Tech leaders have kept cruising. Facebook stock is up 11% since Khan took the FTC's helm on June 15, while Apple has climbed 15% and Google stock 18%. That's despite reports that the Justice Department is preparing to file a second Google antitrust suit over its ad dominance.

The new antitrust enforcement regime may not change all that much "until they show that they can sue and win," Kovacic said.

### 2AC---AT: Cyber

#### No cyber impacts.

Lewis ’20 [James Andrew; 8/17/20; senior vice president and director of the Strategic Technologies Program at the Center for Strategic and International Studies; "Dismissing Cyber Catastrophe," https://www.csis.org/analysis/dismissing-cyber-catastrophe]

More importantly, there are powerful strategic constraints on those who have the ability to launch catastrophe attacks. We have more than two decades of experience with the use of cyber techniques and operations for coercive and criminal purposes and have a clear understanding of motives, capabilities, and intentions. We can be guided by the methods of the Strategic Bombing Survey, which used interviews and observation (rather than hypotheses) to determine effect. These methods apply equally to cyberattacks. The conclusions we can draw from this are:

Nonstate actors and most states lack the capability to launch attacks that cause physical damage at any level, much less a catastrophe. There have been regular predictions every year for over a decade that nonstate actors will acquire these high-end cyber capabilities in two or three years in what has become a cycle of repetition. The monetary return is negligible, which dissuades the skilled cybercriminals (mostly Russian speaking) who might have the necessary skills. One mystery is why these groups have not been used as mercenaries, and this may reflect either a degree of control by the Russian state (if it has forbidden mercenary acts) or a degree of caution by criminals.

There is enough uncertainty among potential attackers about the United States’ ability to attribute that they are unwilling to risk massive retaliation in response to a catastrophic attack. (They are perfectly willing to take the risk of attribution for espionage and coercive cyber actions.)

No one has ever died from a cyberattack, and only a handful of these attacks have produced physical damage. A cyberattack is not a nuclear weapon, and it is intellectually lazy to equate them to nuclear weapons. Using a tactical nuclear weapon against an urban center would produce several hundred thousand casualties, while a strategic nuclear exchange would cause tens of millions of casualties and immense physical destruction. These are catastrophes that some hack cannot duplicate. The shadow of nuclear war distorts discussion of cyber warfare.

State use of cyber operations is consistent with their broad national strategies and interests. Their primary emphasis is on espionage and political coercion. The United States has opponents and is in conflict with them, but they have no interest in launching a catastrophic cyberattack since it would certainly produce an equally catastrophic retaliation. Their goal is to stay below the “use-of-force” threshold and undertake damaging cyber actions against the United States, not start a war.

This has implications for the discussion of inadvertent escalation, something that has also never occurred. The concern over escalation deserves a longer discussion, as there are both technological and strategic constraints that shape and limit risk in cyber operations, and the absence of inadvertent escalation suggests a high degree of control for cyber capabilities by advanced states. Attackers, particularly among the United States’ major opponents for whom cyber is just one of the tools for confrontation, seek to avoid actions that could trigger escalation.

The United States has two opponents (China and Russia) who are capable of damaging cyberattacks. Russia has demonstrated its attack skills on the Ukrainian power grid, but neither Russia nor China would be well served by a similar attack on the United States. Iran is improving and may reach the point where it could use cyberattacks to cause major damage, but it would only do so when it has decided to engage in a major armed conflict with the United States. Iran might attack targets outside the United States and its allies with less risk and continues to experiment with cyberattacks against Israeli critical infrastructure. North Korea has not yet developed this kind of capability.

One major failing of catastrophe scenarios is that they discount the robustness and resilience of modern economies. These economies present multiple targets and configurations; they are harder to damage through cyberattack than they look, given the growing (albeit incomplete) attention to cybersecurity; and experience shows that people compensate for damage and quickly repair or rebuild. This was one of the counterintuitive lessons of the Strategic Bombing Survey. Pre-war planning assumed that civilian morale and production would crumple under aerial bombardment. In fact, the opposite occurred. Resistance hardened and production was restored.1

This is a short overview of why catastrophe is unlikely. Several longer CSIS reports go into the reasons in some detail. Past performance may not necessarily predict the future, but after 25 years without a single catastrophic cyberattack, we should invoke the concept cautiously, if at all. Why then, it is raised so often?

Some of the explanation for the emphasis on cyber catastrophe is hortatory. When the author of one of the first reports (in the 1990s) to sound the alarm over cyber catastrophe was asked later why he had warned of a cyber Pearl Harbor when it was clear this was not going to happen, his reply was that he hoped to scare people into action. "Catastrophe is nigh; we must act" was possibly a reasonable strategy 22 years ago, but no longer.

The resilience of historical events to remain culturally significant must be taken into account for an objective assessment of cyber warfare, and this will require the United States to discard some hypothetical scenarios. The long experience of living under the shadow of nuclear annihilation still shapes American thinking and conditions the United States to expect extreme outcomes. American thinking is also shaped by the experience of 9/11, a wrenching attack that caught the United States by surprise. Fears of another 9/11 reinforce the memory of nuclear war in driving the catastrophe trope, but when applied to cyberattack, these scenarios do not track with operational requirements or the nature of opponent strategy and planning. The contours of cyber warfare are emerging, but they are not always what we discuss. Better policy will require greater objectivity.

# 1AR

## T

### 1AR---Expand

#### Even if not, affs “Expand” requires taking something currently not in the scope of antitrust law and making it part of the scope---otherwise the aff would be not inherent

Hatter ’90 [Terry J Jr; March 20; January District Court Judge at the entral District of California; Westlaw, “In re Eastport Assocs.,” 114 B.R. 686]

Second, Eastport asserts that the presumption against retroactivity does not apply because the amendment was intended only as a clarification of existing law. Where an amendment to a statute is remedial in nature and merely serves to clarify existing law, no question of retroactivity is involved and the law will be applied to pending cases. City of Redlands v. Sorensen, 176 Cal.App.3d 202, 211, 221 Cal.Rptr. 728, 732 (1985). The evidence in this case, however, does not support the conclusion that the amendment to section 66452.6(f) was simply a clarification of preexisting law. The Legislative Counsel's Digest specifically states that “[t]he bill would expand the definition of development moratorium.” Senate Bill 186, Stats.1988, ch. 1330, at 3375 (emphasis added). Since the Legislative Counsel is a state official required by law to analyze pending legislation, it is reasonable to presume that the Legislature amended the statute with the intent and meaning expressed in the Counsel's digest. People v. Martinez, 194 Cal.App.3d 15, 22, 239 Cal.Rptr. 272, 276 (1987). By its ordinary meaning, the term “expand” indicates a change in the law, rather than a restatement of existing law. In light of the Counsel's comment, Eastport's argument is unpersuasive.

#### Topical affs must define new conduct as anticompetitive---squo-descriptive ev doesn’t make sense in this context

Buntin et al ’21 [Jeff; Nina Fridman; Teja Leburu; Ezra Louvis; Ayush Midha; Bryce Rao; Tim Wegener; 2021; Authors of the 2021-22 Antitrust Topic Paper; “Antitrust Controversy Area Proposal,” http://www.cedadebate.org/forum/index.php?PHPSESSID=e2e756d656e1b8a153a09f02b950342b&action=dlattach;topic=7654.0;attach=2847]

The core controversy for this topic concerns whether the federal government should enforce antitrust laws more stringently, against a wider range of conduct. “Antitrust laws” includes three core statutes: the Sherman Act, the Clayton Act, and the FTC Act. There hasn’t been a significant update to statutory antitrust law in 60 years, and there has been a long-term decline in the vigor with which antitrust actions are pursued by federal regulators and upheld by the courts. Crucially, we suggest that the topic require the affirmative to expand the reach of antitrust law, rather than merely increase enforcement of existing antitrust law. The core controversy for the topic concerns whether firms today – from the “tech giants” of Amazon/Apple/Google/Facebook to energy firms and health care conglomerates – have escaped antitrust scrutiny due to too-narrow interpretations of anticompetitive practices regulated by the above statutes. Expanding the reach of antitrust law – in other words, defining new/additional conduct as anticompetitive and regulating on that basis – would be a large change from the status quo (one that Congress and the Biden administration are almost certainly not going to enact), and it builds in two core negative counterplan approaches: enforce existing law more aggressively, and regulate practices directly through non-antitrust means. The core debates will revolve around whether the harms of current concentration of market power outweigh the downsides of a more activist role for government in regulating the market to ensure competition. This topic will feature debates about the most interesting and controversial sectors in the U.S. economy, from artificial intelligence to news media outlets to renewable energy producers. The way we organize our economy matters for everything, and this topic will allow students to explore broad-ranging implications for the structure of the economy through a mechanism that is constrained enough to produce deep clash – the ideal balance for a season of debates.

#### By indicates means

Oxford 89 – Oxford English Dictionary, Second Edition. [by, prep. and adv., Oxford English Dictionary Online, accessed through the University of Michigan]//BPS

30.

a. Introducing the means or instrumentality: = by means of. (Old English more usually employed fram, thurh, of). (The material instrument or tool is usually introduced by with: ‘to cut with a knife’.)

#### At least indicates sufficiency

Bradford 14, JD (Case 2:13-cv-01581-AKK Document 24 Filed 09/11/14 , Lexis)

In addition, there is a distinct difference between the two phrases used. “At least” is defined as “not less than,” “at a minimum,” or “at the minimum.”2 The phrase is indefinite, and signifies only that a minimum unit of time (one year) is required.

## CP---States

### 1AR---Pre-emption

#### Will be pre-empted under CC

Madden ’16 [Sean; 2016; J.D. Candidate at the Campbell University School of Law; Campbell Law Review, “Out of Bounds: Commerce Clause Protection from State Antitrust Statutes for Regional Athletic Conferences,” vol. 38]

I. The Emergence of State Antitrust Law

“All fifty states as well as the District of Columbia” have enacted “some type of antitrust statute.”16 Indeed, at least twenty-six states had some sort of antitrust prohibition by 1890, when the Sherman Act was introduced.17 The underlying forces that drove the passage of the Sherman Act also spurred the development of state antitrust law.18 In fact, fundamental concepts of federal antitrust law were based in part on principles developed by the judicial gloss of state courts interpreting state antitrust laws.19

One of the main purposes of passing the Sherman Act was the supplementation of these state laws.20 The Sherman Act was to supplement state antitrust law by reaching restraints on interstate trade, while states would retain exclusive jurisdiction over all purely intrastate restraints.21 Closely following the passage of the Sherman Act, many states adopted new or amended existing state antitrust statutes to mimic the federal statutes.22 Following these changes, state antitrust law began a “gradual decline” as it was viewed as “superfluous” in light of the federal law.23 The decline was amplified in the wake of decisions like Wickard v. Filburn, 24 which expanded the federal power to reach local activities seen as “affecting” commerce under the Commerce Clause.25 The rationale in Wickard led courts to apply the Sherman Act to purely intrastate activity, significantly diminishing the role of state antitrust law.26

In the 1970s, however, state antitrust law experienced a revival thanks in part to treble-damage class action lawsuits in which states were part of the plaintiff class.27 Another contributing factor was the United States Supreme Court’s decision in Illinois Brick Co. v. Illinois. 28 There, the Court denied damages to indirect purchasers under federal law.29 The decision in Illinois Brick left state legislatures feeling pressure to address the apparent gap that now existed in federal antitrust law.30 As a result, many state legislatures amended their antitrust statutes to allow indirect purchasers to recover damages.31 This was one of the few instances where state legislatures and state courts deviated from the federal law.32 Still, however, most state antitrust statutes mimic the federal statutes.33

While the antitrust laws of most states track the language of the federal statutes closely, federal case law on substantive issues is not necessarily regarded as precedential.34 Some state courts regard the federal case law as precedential, while others use the federal case law as a persuasive source of authority when addressing issues of first impression.35 However, state antitrust law is not preempted simply because of the existence of federal antitrust statutes.36 Regardless, it is clear that the role of state antitrust laws with respect to certain industries has become severely limited.37

II. The Commerce Clause and State Antitrust Law

Although state antitrust statutes may be able to reach interstate activity, the Commerce Clause 38 still serves as a protective shield that limits the scope of state antitrust enforcement. Through the Constitution, Congress is granted the power to “regulate Commerce . . . among the several States . . . .”39 Phrased as an affirmative grant of power, the Commerce Clause also contains a negative or “dormant” command “that ‘create[s] an area of trade free from interference by the States’” and “prevents a State from ‘jeopardizing the welfare of the Nation as a whole’ by ‘plac[ing] burdens on the flow of commerce across its borders that commerce wholly within those borders would not bear.’”40 This operation “of the Commerce Clause limits state interference with interstate commerce”, even without legislation implemented by Congress.41

As a limit on State powers, the Commerce Clause can invalidate state statutes where the statute explicitly discriminates against interstate commerce or where the indirect effects on interstate commerce impose a “burden on interstate commerce that is ‘clearly excessive in relation to the putative local benefits[.]’”42 If a statute facially discriminates against out-of-state activity, it will be struck down unless it “advances a legitimate local purpose that cannot be adequately served by reasonable nondiscriminatory alternatives.”43 The Supreme Court in Granholm v. Heald44 held that “state laws violate the Commerce Clause if they mandate ‘differential treatment of in-state and out-of-state economic interests that benefits the former and burdens the latter.’”45 However, state antitrust laws are statutes of general application and are not likely facially discriminatory.46 Thus, state antitrust statutes are more typically challenged as excessively burdensome on interstate commerce.47

### 1AR---AT: Nullification

#### The CP fails and causes literal anarchy

Guelzo 11 [Allen, is Henry R. Luce III Professor of the Civil War era, director of Civil War–era studies, and associate director of the Civil War Institute at Gettysburg College, “Nullification Temptation,” National Review. <https://www.nationalreview.com/nrd/articles/309339/nullification-temptation>]

Unfortunately, like other nuclear options, nullification is a dangerous weapon to brandish. Its danger lies in how easily it could destroy not just Obamacare, but the entire Constitution. Nullification has been tested before — and found wanting. At the time of the Constitution’s ratification, several of the states tried to add reversion declarations that provided some measure of restraint on the operation of unpopular federal laws. Thomas Jefferson and James Madison both wrote legislative resolutions in 1798 threatening state nullification of the Alien and Sedition Acts. In 1832, a South Carolina state convention adopted a nullification ordinance to prevent the collection of “the tariff of abominations,” and in the 1850s the Wisconsin Supreme Court tried to nullify the Fugitive Slave Law by ordering the release of Sherman Booth, an abolitionist who had helped a runaway slave escape to Canada, from federal custody. At no point, however, did nullification prevail. The state ratifying conventions in 1788 could issue as many reversion declarations as they pleased, but as Robert Bork once wrote, it is the act of ratifying the Constitution, not of issuing nullification declarations, that enjoys legal standing. Neither Kentucky nor Virginia actually nullified the Alien and Sedition Acts, and Madison himself hastened to add in 1800 that the nullification he had had in mind was more an “expression[] of opinion” about the constitutionality of federal acts than a declaration of their invalidity. South Carolina’s nullification of the tariff earned a resounding rebuke from Pres. Andrew Jackson, himself no lover of centralized government. “I consider . . . the power to annul a law of the United States, assumed by one State, incompatible with the existence of the Union, contradicted expressly by the letter of the Constitution,” and “inconsistent with every principle on which it was founded,” Jackson thundered. When federal marshals arrested Sherman Booth and refused to release him to Wisconsin state custody, he had to wait for a presidential pardon before he could walk free in 1860. The Constitution is nicely specific about the relationship between federal and state power: “This Constitution, and the Laws of the United States which shall be made in Pursuance thereof; and all Treaties made, or which shall be made, under the Authority of the United States, shall be the supreme Law of the Land; and the Judges in every State shall be bound thereby, any Thing in the Constitution or Laws of any State to the Contrary notwithstanding.” So it is worth asking just what it is that modern nullificationists don’t understand about supreme. The wonder only deepens when we remember that the states are expressly forbidden by the Constitution to exercise the greater prerogatives of sovereignty: “No State shall enter into any Treaty, Alliance, or Confederation . . . coin Money; emit Bills of Credit . . . pass any Bill of Attainder, ex post facto Law, or Law impairing the Obligation of Contracts, or grant any Title of Nobility . . . lay any Imposts or Duties on Imports or Exports . . . keep Troops, or Ships of War in time of Peace, enter into any Agreement or Compact with another State, or with a foreign Power, or engage in War.” If the states lack these powers under the Constitution, how can they retain the much greater power to nullify national laws? Nullification collides with more than just the letter of the Constitution. It also assaults its spirit. The guarantee that each state will give “Full Faith and Credit . . . to the public Acts, Records, and judicial Proceedings of every other State” is undermined whenever a state nullifies a law and other states refuse to recognize the nullification. And it collides with the rights and obligations of U.S. citizens, since the state nullification of an unwanted federal law ends up restraining a U.S. citizen living in that state from following that law. “The Citizens of each State shall be entitled to all Privileges and Immunities of Citizens in the several States,” says the Constitution — but not in a state where the local legislature has nullified certain of them that it deems objectionable. What the nullifying state is doing is, in effect, canceling the U.S. citizenship of the people living within its borders by asserting supreme jurisdiction over them. One reply to this argument is that it merely represents the “nationalist theory” of the Constitution (according to which the document creates a single, unified nation, and the states are subordinate to federal authority), as opposed to the “compact theory” (according to which the Constitution creates a league or alliance of independent sovereignties). But it’s not easy to say what a compact theory means in the real world, much less whether it allows nullification. Theories according to which the Constitution is a “compact” also fly in the face of what the Framers thought they were doing. James Madison, both during and after the Constitutional Convention, believed that the national government ought to have the authority “to negative all laws passed by the several States, contravening in the opinion of the National Legislature the articles of Union . . . and to call forth the force of the Union against any member of the Union failing to fulfill its duty under the articles thereof.” And George Washington was so intent on having the federal government be the government of all the people, and not just of states, that any other result would cause him “deep regret at having any agency in this business.” Nor it is really persuasive to claim that the Tenth Amendment’s reservation to the states of powers “not delegated to the United States by the Constitution” was intended to include the power to nullify. It would be strange that the Framers spelled out an amending process but not a process for nullification. Nullification is the spirit of anarchy. It sees real enough dangers in the non-enforcement of law, or even perverse lawmaking, but retaliates by setting aside the entire mechanism of lawmaking. It is impatient with the slow, prudent working of the checks and balances in the federal system, and announces (in the words of Donald Livingston of the Abbeville Institute) that “Congress cannot restrain itself, and elections don’t work.” At its worst, nullification places the immediate will of a minority over the process of majority rule. It appeals to special interests and European-style proportional-representation schemes, in which factions and splinter groups are the tail that wags the nullifying dog. Have nullification if you like, but understand that it is as destructive of the Constitution and the rule of law as the legislation it takes aim at, and rejected by our history as well.

#### Means they can’t solve any of the case, especially econ, because nobody understands how federal property law will ever be enforced again

Haggard and Tiede 10 (Stephan, Distinguished Professor at the Graduate School of International Relations and Pacific Studies at the University of California, San Diego, Ph.D. in political science from the University of California, Berkeley Lydia, Assistant Professor in the department of political science at the University of Houston, Ph.D. in political science from the University of California, San Diego, “The Rule of Law and Economic Growth: Where Are We?”, March 2010, <https://law.utexas.edu/conferences/measuring/The%20Papers/ruleoflawconference.Haggard&Tiede.Rule%20of%20Law.March13.2010.pdf)//JBS>

The Canonical Political Formulation: Checks on Government An important theoretical contribution to the debate on the rule of law and economic development has come from the joining of arguments about property rights and contracting to the long-standing tradition about the significance of institutional checks and balances. Legal scholars have also associated the rule of law with restraints on the state (Hayek 1978, Dicey 1982, Cass 2001), including through an independent judiciary. Institutional checks and balances are economically important because governments not only have the power to renege on their commitments but powerful incentives to do so. Given these incentives, the rule of law cannot be credible, and the purported gains from property rights and enforcement of contract not fully realized, unless there are effective limits on executive discretion (for example, Buchanan & Tullock 1962 and Hayek 1973 on constitutions; Root 1994; Olson 1993 and McGuire & Olson 1996; North & Weingast 1989; Weingast 1995, 1997; Schultz & Weingast 2003; Acemoglu, Johnson &Robinson (2005).

### 1AR---AT: Transition Links Back

#### No counterrevolution---state capacity outweighs grievances

Hanania 20 - research fellow at Defense Priorities, and a postdoctoral research fellow at the Saltzman Institute of War and Peace Studies at Columbia University. (Richard, Oct. 29, 2020, “Americans hate each other. But we aren’t headed for civil war,” washingtonpost.com/outlook/civil-war-united-states-unlikely-violence/2020/10/29/3a143936-0f0f-11eb-8074-0e943a91bf08\_story.html, emuse)

The men [arrested](https://www.washingtonpost.com/national-security/michigan-governor-kidnap-plot/2020/10/08/0032e206-0980-11eb-9be6-cf25fb429f1a_story.html?itid=lk_inline_manual_1) in early October and charged with plotting to kidnap Michigan Gov. Gretchen Whitmer (D) apparently hoped that doing so might help set off a civil war — pitting lovers of liberty like themselves against treasonous statists. The goal may sound outlandish, but fringe militia members aren’t the only ones who think a second civil war could occur in the United States. Recently, New York Times columnist Thomas Friedman said that [the situation in this country](https://thehill.com/homenews/media/518142-thomas-friedman-to-cnn-us-potentially-heading-to-second-civil-war) reminded him of his time in Lebanon, where in the mid-1970s street clashes between sectarian militias erupted into multifaceted strife that lasted a decade and a half. David Kilcullen, an Australian scholar and adviser to the U.S. Army, [described America in June](https://slate.com/news-and-politics/2020/09/america-insurgency-chaos-trump-violence.html) as being at the point of “incipient insurgency,” while the academic Peter Turchin [recently wrote](https://www.theglobeandmail.com/opinion/article-i-predicted-2020-would-be-a-mess-for-the-us-could-that-help-prevent/) — pointing to riots and rising economic inequality — that “we are getting awfully close to the point where a civil war or revolution becomes probable.” The logic underlying most of these predictions is consistent and straightforward. Americans are more [divided](https://www.amazon.com/Why-Were-Polarized-Ezra-Klein/dp/147670032X) on social and political issues than in previous decades, and they hate each other more. Violence is boiling over: Armed right-wing militants traveled to sites of left-wing protests this summer, supposedly to enforce order, and deadly clashes [occurred.](https://www.washingtonpost.com/nation/2020/10/03/kenosha-shooting-victims/?arc404=true&itid=lk_inline_manual_2) If tensions continue to grow, these isolated incidents could become more common — and the United States might follow the path of other nations that have experienced full-blown armed conflict in recent decades. Despite its appeal, this view betrays a fundamental misunderstanding of political violence. Historically, the academic literature on the causes of civil war was divided into two categories: Some scholars viewed such conflicts as a predictable outcome whenever there were deep grievances [within national populations](https://www.amazon.com/Ages-Discord-Peter-Turchin/dp/0996139540), while others stressed the importance of citizens having an opportunity to act on those resentments. Much of the discussion about violence in the United States today centers, implicitly, on the grievance model, holding that if we know how much different tribes of Americans hate each other, we can predict the likelihood of fighting in the streets. But scholars now prefer the opportunity model, thanks to large-scale studies that examine political violence worldwide with [cutting-edge statistical methods](https://www.foreignaffairs.com/articles/2013-04-03/rise-big-data). Grievances and societal cleavages exist everywhere, waiting to be exploited. What distinguishes the countries that descend into civil war from those that do not is the lack of state capacity to put down rebellion — for reasons rooted in politics, economics or geography. [Gun laws were meant to ban private militants. Now, our hands are tied.](https://www.washingtonpost.com/outlook/2020/09/02/militants-kenosha-vigilante-second-amendment-law/?itid=lk_interstitial_manual_8) You might expect, for instance, states that lack democracy, that have diverse populations or that discriminate against minorities would be at the highest risk of internal conflict, because such conditions foment bitter grievances. But in fact, those qualities are at most loosely correlated with civil war, as scholars like the Stanford University political scientists James Fearon and David Laitin and the University of California at San Diego’s [Barbara F. Walter](https://journals.sagepub.com/doi/abs/10.1177/0022002714528006) have shown. Rather, civil wars happen where the state is weak. Lower levels of wealth predict civil war, because poor countries lack the law enforcement and military capability to put down armed rebellions. That helps to explain recent conflicts in such varied countries as Yemen and Congo. Power vacuums, as occurred during and after decolonization, after American regime-change wars and after the collapse of the Soviet Union, create uncertainty about who is in charge and can inspire those who seek power to take up arms. There are other factors, too: States that are rich in oil [see more civil war](http://documents1.worldbank.org/curated/en/359271468739530199/pdf/multi-page.pdf) because the potential payoffs of a successful rebellion are higher — but this [applies](https://www.annualreviews.org/doi/full/10.1146/annurev-polisci-052213-040359) only up to a certain level of income, after which point the government is often able to buy off or destroy any potential challengers. The Balkans offer a ready example of how grievance based on ethnic tension must be intertwined with the collapse of order for groups to take up arms against one another. While various ethnolinguistic communities there long eyed each other with suspicion, going back to the days of the Ottoman and Austro-Hungarian empires, those tensions did not lead to violence for most of the region’s history, including during the nearly half-century of communist rule. But when the Soviet empire fell and communist governments were discredited, parts of Yugoslavia began to declare independence. Serbs, Bosnians, Croats and Albanians, [incited by political opportunists and demagogues](https://politicalscience.osu.edu/faculty/jmueller/is2000.pdf), fought wars against one another for a decade, drawing in the international community, until sovereign states emerged with new, widely accepted borders. In one influential 2006 study representative of the new school of thought — one that examined 172 countries from 1945 to 2000 — the political scientists [Havard Hegre, of the Center for the Study of Civil War, and Nicholas Sambanis, of Yale University,](https://journals.sagepub.com/doi/abs/10.1177/0022002706289303) used advanced statistical tools to determine which of 88 factors most consistently predicted civil war. Grievance-based measures like authoritarian government and ethnolinguistic diversity ranked low or had no discernible effect (although the latter did predict internal conflict when the analysis included the lowest level of conflict measured, defined as 25 or more deaths in a year). In contrast, Hegre and Sambanis found that measures of opportunity like a small military establishment and rough terrain — which offers a base from which rebels can strike — had a much stronger and more consistent effect. Geography is a surprisingly potent variable in predicting civil war — and can confound even moderately strong states. During such conflicts, governments usually control the cities, and rebels form bases in relatively inaccessible regions like mountains, forests and swamps. Countries that have had problems with mountain-based minorities include Russia, which has confronted rebels in Chechnya, and Turkey, which is still fighting Kurds in the southeast of the country. (Until the 1990s, the Turkish government even referred to Kurds as “Mountain Turks,” denying their identity while acknowledging the geographical nature of the problem.) Even with the most difficult geographic conditions, however, wealth and government power tend to erase opportunities for rebellion. Consider that in [1948 and 1949](https://academic.oup.com/isq/article-abstract/61/3/677/4609690), South Korea faced a communist-led uprising on Jeju Island — which lies in the Korea Strait, about 60 miles from the mainland — in a conflict that cost as many as 30,000 lives, mostly civilian. A poor, newly independent South Korea had difficulty bringing that island under control and relied on brutal tactics to do so, including summary executions. But now that South Korea has joined the club of modern, industrialized states with advanced militaries, the idea of a region like Jeju rebelling has become unthinkable. Wealth and military power explain why, in the United States, civil war is likely to remain a metaphor. Its per capita gross domestic product is about $62,000 a year, among the highest in the world, and its military is clearly capable of wiping out any challenges to state power. (The U.S. Civil War occurred when the nation had a per capita GDP [comparable](https://eml.berkeley.edu/~webfac/cromer/e211_f12/LindertWilliamson.pdf) to that of a developing nation today, and when military technology was limited to rifles and cannon.) The Pentagon has 1.3 million active-duty personnel, can find terrorists on the other side of the world and wipe them out with the push of a button, and boasts a command-and-control structure with no recent history of factionalization. There is no swamp or mountain peak that is beyond the easy reach of the U.S. military. A [recent survey](https://www.politico.com/news/magazine/2020/10/01/political-violence-424157) by Nationscape revealed that 36 percent of Republicans and 33 percent of Democrats thought that violence was at least somewhat justified to accomplish political goals. The opportunity model suggests that while a survey result like this reveals disturbing things about our political culture, it does not presage civil war. To be sure, riots and general discord can happen as long as leaders lack the political will to respond (or if, as today, leaders disagree about the line dividing peaceful protest from lawlessness). But as soon as the authorities perceive a serious enough problem, they can move quickly and decisively, a lesson learned by the anarchists who recently took over part of Seattle, declaring it the Capitol Hill Autonomous Zone. They were tolerated for just over three weeks until they were cleared out by local police in partnership with the FBI. Law enforcement at the local and national levels, from police to the military, remains united and under civilian control, willing and able to put down potential threats to our governing system or territorial integrity. [Five myths about militias](https://www.washingtonpost.com/outlook/five-myths/five-myths-about-militias/2020/09/04/9d7c25e0-ee23-11ea-99a1-71343d03bc29_story.html?itid=lk_interstitial_manual_24) The wide availability of guns does make the American situation unique among developed countries — and leads to more horrific low-level violence, such as the 2019 El Paso shooting, in which a White racist angry about immigration is accused of targeting innocent Hispanics, killing 23 people. (He had apparently sought, but failed, [to provoke](https://www.washingtonexaminer.com/news/el-paso-suspect-reportedly-wrote-four-page-racist-anti-immigrant-manifesto-before-attack) a larger conflict.) But that is not civil war — and using such hyperbolic language may actually lead to more violence, as radicals come to believe that true civil war is possible and undertake copycat attacks. In fact, the situation in Michigan suggests how intoxicating the idea of civil war can be. Had the recently arrested anti-government extremists not been under close federal surveillance — itself a reassuring sign of state capacity — they might have committed hideous political violence. Yet their goal of inciting civil war would have remained out of reach. Those predicting civil war have correctly identified serious problems in American society: Ever-widening divisions based on factors including race, geography and partisanship make it difficult to respond to such varied threats as pandemics, economic crises and climate change. But our problem remains bitter polarization and distrust, not the literal disintegration of the country. The United States faces monumental challenges in the coming months and years, from a rancorous election (and its aftershocks) to difficult racial issues to continuing environmental calamity. Extreme partisanship and political discord will absolutely make everything harder. But the sooner we realize that civil war is highly unlikely, the sooner we can focus on real problems.

## DA---Infra

### 1AR---AT: Food

#### Innovation turns it

BW 16 - Business Wire, a Berkshire Hathaway subsidiary, is a company that disseminates full-text press releases from thousands of companies and organizations worldwide to news media, financial markets, disclosure systems, investors, information web sites, databases, bloggers, social networks and other audiences. (“Global Precision Agriculture Market Will Boom Following the Need to Maximize Food Production Through 2019, says Technavio,” http://www.businesswire.com/news/home/20160229006011/en/Global-Precision-Agriculture-Market-Boom-Maximize-Food 2/29/2016) STRYKER

LONDON--(BUSINESS WIRE)--Technavio analysts forecast the global precision agriculture market to post a CAGR of more than 14% by 2019, according to their latest report. The research study covers the present scenario and growth prospects of the global precision agriculture market for 2015-2019. To calculate the market size, the report considers the revenue generated from sales of the following precision farming products: automation and control systems, sensing and monitoring devices, and farm management systems. Technavio analysts highlight the following four factors that are contributing to the growth of the global precision agriculture market: Growing awareness and acceptance Need to maximize food production Optimization of inputs Control over farm data Growing awareness and acceptance According to the report the acceptance and adoption of any technology is influenced by return on investment (ROI) and the farmer's ability to bear risk. Despite the fact that precision farming technologies have been available commercially since the 1990s, their awareness and uptake has been relatively slow. However, with advances in socio-demographic factors like improved education and computer literacy among farmers, the adoption rate has increased in modern times. “Awareness of the benefits of precision farming technologies, revealed in the form of improved yields and profitability, have provided the biggest incentive for their acceptance and adoption, driving growth in the market,” says Faizan Akhtar, a research expert from Technavio’s agricultural equipment research team. Need to maximize food production With the growing global population, demand for food is rising but the size of arable land is decreasing. Farmers are thus facing the pressure of maximizing production within these limitations and are seeking out progressive techniques to make their farmlands more efficient. These factors combined are expected to drive the popularity of precision farming technologies in the market because they allow more effective management of farmland and thus increase production in a sustainable manner. Optimization of inputs Agricultural inputs like seeds, irrigation, and fertilizers account for a major cost to farmers and are witnessing a rise in prices. Farmers have strived to mitigate the costs associated with inputs and simultaneously increase yields. Precision farming technologies such as variable-rate technology (VRT) provide this benefit as they facilitate control of the timing, quantity, and placement of inputs for any given area on the farm. This allows for better efficiency of planting because it allows farmers to optimize and customize inputs and reduce the misapplication of products. “The VRT tools can be used to evaluate the natural soil variability of a field and reduce irrigation in areas where soil is detected to better retain water. Precision farming can thus translate into major cost and energy savings through efficient use of resources. This is expected to drive demand in the market over the next five years,” says Faizan. Control over farm data Farm data security and privacy is a major concern of the precision farming market. This farm data is related to planting, production and harvesting practices and can be sent by farmers to ATPs (agricultural technology providers). Vendors in the market including Deere and Company and Monsanto have developed services that make use of these data, analyze them, and offer field prescriptions and benchmarks to aid farmers in decision-making. While some farmers are open to this, others refrain from allowing ATPs to use them. Certain farm data tools such as FARMServer have facilitated the sharing of data, vesting its privacy and security in the hands of the farmer. This could help accelerate the advances in the precision farming field through collaborative efforts between the farmers and agribusinesses.

#### Problem is distribution, not production

**Altieri and Rosset 99** - \* University of California, Berkeley  AND \*\* Food First/Institute for Food and Development Policy (Miguel and Peter, “Ten reasons why biotechnology will not ensure food security, protect the environment and reduce poverty in the developing world” October, http://www.foodfirst.org/en/node/305

1. There is no relationship between the prevalence of hunger in a given country and its population. For every densely populated and hungry nation like Bangladesh or Haiti, there is a sparsely populated and hungry nation like Brazil and Indonesia. The world today produces more food per inhabitant than ever before. Enough is available to provide 4.3 pounds every person everyday: 2.5 pounds of grain, beans and nuts, about a pound of meat, milk and eggs and another of fruits and vegetables. The real causes of hunger are poverty, inequality and lack of access. Too many people are too poor to buy the food that is available (but often poorly distributed) or lack the land and resources to grow it themselves (Lappe, Collins and Rosset l998).

2. Most innovations in agricultural biotechnology have been profit-driven rather than need-driven. The real thrust of the genetic engineering industry is not to make third world agriculture more productive, but rather to generate profits (Busch et al l990). This is illustrated by reviewing the principle technologies on the market today: a) herbicide resistant crops such as Monsanto's "Roundup Ready"soybeans, seeds that are tolerant to Monsanto's herbicide Roundup, and b)"Bt" crops which are engineered to produce their own insecticide. In the first instance, the goal is to win a greater herbicide market-share for a proprietary product and in the second to boost seed sales at the cost of damaging the usefulness of a key pest management product (the Bacillus thuringiensis based microbial insecticide) relied upon by many farmers, including most organic farmers, as a powerful alternative to insecticides. These technologies respond to the need of biotechnology companies to intensify farmers' dependence upon seeds protected by so-called" intellectual property rights," which conflict directly with the age-old rights of farmers to reproduce, share or store seeds (Hobbelink l991). Whenever possible corporations will require farmers to buy company's brand of inputs and will forbid farmers from keeping or selling seed. By controlling germplasm from seed to sale, and by forcing farmers to pay inflated prices for seed-chemical packages, companies are determined to extract the most profit from their investment (Krimsky and Wrubel l996).

#### No ag impact

Steven Pinker 11, Prof @ Harvard, Steven Pinker: Resource Scarcity Doesn’t Cause Wars, <http://www.globalwarming.org/2011/11/28/steven-pinker-resource-scarcity-doesnt-cause-wars/>

Once again it seems to me that the appropriate response is “maybe, but maybe not.” Though climate change can cause plenty of misery… it will not necessarily lead to armed conflict. The political scientists who track war and peace, such as Halvard Buhaug, Idean Salehyan, Ole Theisen, and Nils Gleditsch, are skeptical of the popular idea that people fight wars over scarce resources. Hunger and resource shortages are tragically common in sub-Saharan countries such as Malawi, Zambia, and Tanzania, but wars involving them are not. Hurricanes, floods, droughts, and tsunamis (such as the disastrous one in the Indian Ocean in 2004) do not generally lead to conflict. The American dust bowl in the 1930s, to take another example, caused plenty of deprivation but no civil war. And while temperatures have been rising steadily in Africa during the past fifteen years, civil wars and war deaths have been falling. Pressures on access to land and water can certainly cause local skirmishes, but a genuine war requires that hostile forces be organized and armed, and that depends more on the influence of bad governments, closed economies, and militant ideologies than on the sheer availability of land and water. Certainly any connection to terrorism is in the imagination of the terror warriors: terrorists tend to be underemployed lower-middle-class men, not subsistence farmers. As for genocide, the Sudanese government finds it convenient to blame violence in Darfur on desertification, distracting the world from its own role in tolerating or encouraging the ethnic cleansing. In a regression analysis on armed conflicts from 1980 to 1992, Theisen found that conflict was more likely if a country was poor, populous, politically unstable, and abundant in oil, but not if it had suffered from droughts, water shortages, or mild land degradation. (Severe land degradation did have a small effect.) Reviewing analyses that examined a large number (N) of countries rather than cherry-picking one or toe, he concluded, “Those who foresee doom, because of the relationship between resource scarcity and violent internal conflict, have very little support from the large-N literature.”

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#### No deal from either side. Haven’t even seen text of bills.

Foran et al. ‘10/28 [Clare; 10/28/21; congressional reporter for CNN Politics; et al.; "House Democrats again delay infrastructure vote amid party divisions," https://www.cnn.com/2021/10/28/politics/biden-agenda-deal-democrats/index.html]

During the closed-door meeting with House Democrats, Biden laid out in person long-awaited details of his $1.75 trillion economic and climate package, trying to convince progressives who are skeptical of anything short of a fully written bill and commitments from all 50 members of the Senate Democratic caucus to back his framework.

But he came up short, with progressives still demanding that both bills move in tandem.

Phillips was critical of Biden because he did not explicitly say the infrastructure vote should occur on Thursday in the meeting; Pelosi is the one who pushed for the vote.

"I'm not afraid to say I wish he was more explicit. ... This is the commander in chief of the United States. When you spend political equity in front of a caucus two times in a month, I think it's got to be awfully explicit -- and be more forthright."

Phillips added: "If the President had led us down that hallway onto and on the House floor, I think it would have been close. .... I think with Republican votes, it would have passed."

The personal pitch to House Democrats marked a concerted effort by the President to wrest control of an unwieldy process that has led to significant revisions to Democratic goals in the effort to appease Sens. Joe Manchin Manchin and Kyrsten Sinema. While Biden's proposal isn't finalized in its entirety, days of negotiations have brought it to a place where the key elements are all locked in.

Not all Democrats have signed off on the framework that Biden announced Thursday morning, two people familiar with the plan cautioned, but the President believes it's a consensus all Democrats should be able to support.

Neither Manchin nor Sinema explicitly committed to backing the plan Thursday, though they both said they were continuing to negotiate after Biden's meeting with House Democrats.

Sinema reacted to the framework by saying in a statement, "We have made significant progress" and "I look forward to getting this done."

Manchin was noncommittal when asked by reporters whether he will support the framework agreement. Later on Thursday, he said, "We haven't seen the text yet. Everyone has to see it. I don't think anybody could say they could support it until they see the text."

#### Biden’s not key---bills failing because he’s ineffective and his approval is shot.

Lyons ‘10/26 [Gene; 10/27/21; nationally syndicated journalist for Harper’s the New York Times Magazine, Chicago Sun-Times, and more; "Democrats couldn't sell water in a desert," https://www.thecabin.net/opinion/democrats-couldnt-sell-water-in-a-desert/article\_690a11b0-bb4d-527f-b208-43a021a36075.html]

No wonder the bill’s on life support, along with, allegedly, the Biden presidency itself. No wonder, too, that the president’s overall approval numbers are seen as anemic — although recent polls from CNN and Fox News placed his favorability at 50%, higher than his predecessor ever achieved.

CNN, for its part, has downplayed its own favorable numbers. Correspondents cherry-pick weaker poll results to keep Wolf Blitzer fully apprised of Washington insider conventional wisdom.

And how has it come to this? Partly, it’s the habitual ignorance and inattention of the American public. People have only a vague idea of what they want, and no idea how to get it.

Partly, too, it’s the fault of congressional Republicans and the accursed Senate filibuster — so determined to wage political war against a Democratic president that the administration was forced to combine its entire legislative agenda into a single, one-size-fits-all reconciliation bill to have any chance of passing. (Reconciliation bills can’t be filibustered.)

Under “normal” political conditions, which we may never see again, Democrats could have passed a trillion-dollar bipartisan infrastructure plan rebuilding roads, bridges, water and sewer lines, and high-speed internet, and then considered the component parts of the Build Back Better plan one or two at a time — Medicare improvements in one bill, child tax credits in another, etc.

Instead, they decided that Mitch McConnell’s determination to prevent any and all Democratic bills from coming to a Senate vote made bundling them into a single reconciliation bill the only way to pass anything.

The Biden White House agreed.

Media critic Eric Boehlert blames the Beltway news media for failing to enlighten the public. Writing on his Press Run website, Boehlert argues that “as Democrats work to pass both a huge infrastructure bill and even bigger social spending bill, dubbed Build Back Better, the Beltway press continues to do a great job ignoring the contents of the historic effort. Focusing instead on its cost and obsessively documenting the vote-counting process, the press has walked away from its job of explaining legislation.”

Washington Post columnist E.J. Dionne agrees, writing, “the relentless focus on the single number of $3.5 trillion has left most Americans clueless about what Biden wants to do.”

Up to a point, I agree. Also with Dionne’s larger point that the Democratic party “needs to spend less time on cultural issues and more on fighting for direct benefits to the working and middle classes, a cause that unites voters across racial and regional lines.”

But the real fault here isn’t with the news media; it’s with the White House’s inexplicable failure to sell its plan. People don’t know what’s in the Build Back Better plan mainly because Biden hasn’t told them — simply, clearly and repeatedly. If you want the public to understand the legislation, you’ve got to tell them you’re going to tell them, tell them, and then remind them you told them. Over and over until it sinks in.

But the bully pulpit has been vacant. It’s incredible that Democrats have gotten suckered into talking about nothing but the 10-year price tag — as if $3.5 trillion were even comprehensible to people. It’s as tone-deaf and self-destructive as “Defund the Police.”

#### No agreement, bills aren’t finished, and Biden’s not key---he’s in Rome.

Greve ‘10/28 [Joan; 10/28/21; Guardian politics breaking news reporter; Maanvi Singh; political reporter for the Guardian; "House delays infrastructure bill vote as progressives dig in – as it happened," https://www.theguardian.com/us-news/live/2021/oct/28/biden-spending-package-democrats-europe-trip-us-politics-live?page=with:block-617b14948f08ea671ec0cca9/]

However, it remains unclear whether the framework can attract the support of the two Democratic holdouts in the Senate, Kyrsten Sinema and Joe Manchin. Sinema acknowledged that Democrats “have made significant progress” in their negotiations, but neither she nor Manchin have explicitly endorsed the framework. Biden will need all 50 Democratic senators on board to get the proposal passed.

The House delayed a vote on the bipartisan infrastructure bill following the framework’s release, following resistance from progressives. “Members of our Caucus will not vote for the infrastructure bill without the Build Back Better Act,” said Pramila Jayapal. “We will work immediately to finalize and pass both pieces of legislation through the House together.”

House Democrats released an updated version of the reconciliation bill, but the legislation is still expected to undergo significant revisions as negotiations continue to determine the specific details of the package.

Biden is now en route to Rome to kick off his week-long trip to Europe. As Democrats continue their negotiations, Biden will be overseas – meeting with Pope Francis in Vatican City, attending the G20 summit in Rome and participating in the Cop26 climate change conference in Glasgow. The White House has said the president will remain engaged in the negotiations while abroad.